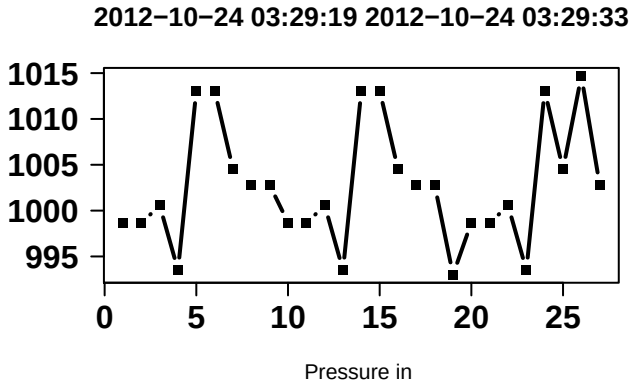
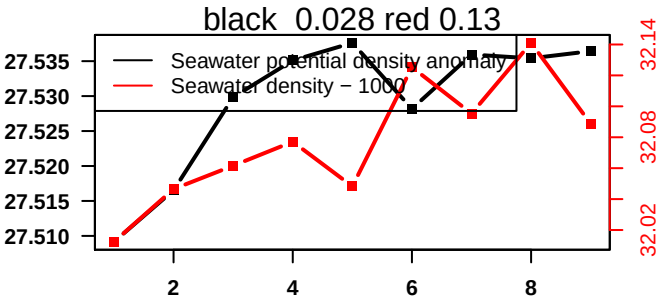
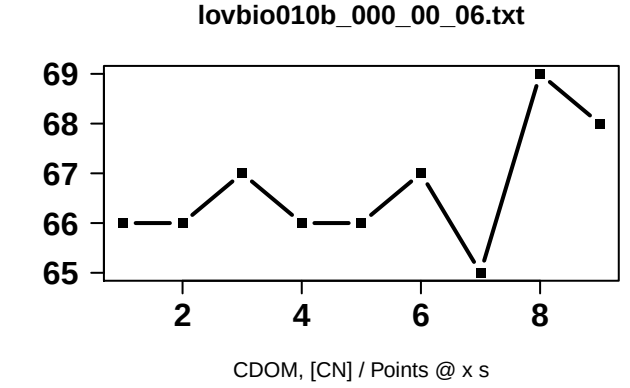
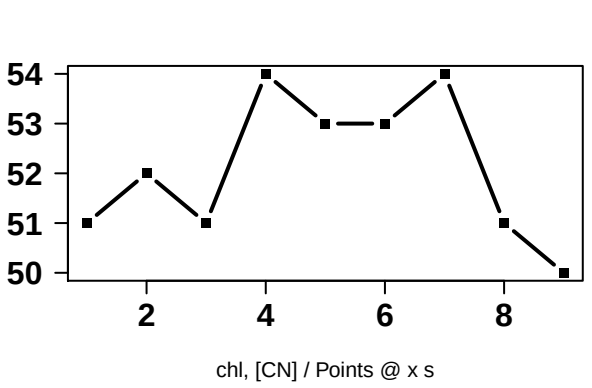
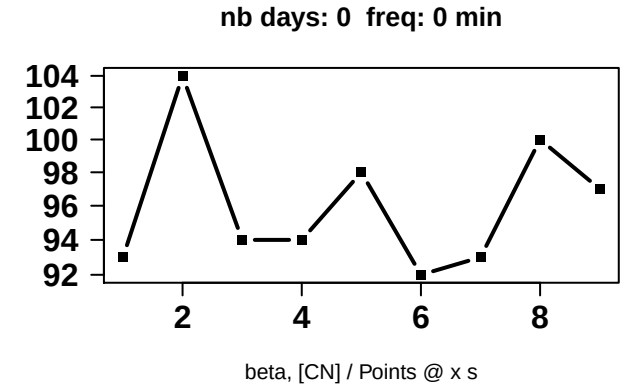
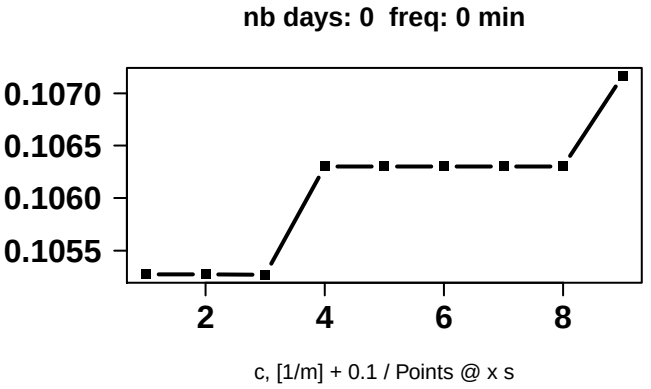

2012−10−24 03:29:19 2012−10−24 03:29:33
1015
1010
1005
1000
995
0
5
10
15
20
25
Pressure in

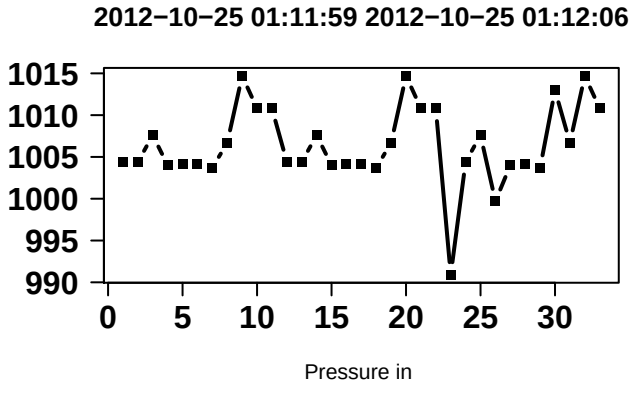

black 0.028 red 0.13
Seawater potential density anomaly
Seawater density − 1000
27.535
27.530
27.525
27.520
27.515
27.510
32.14
32.08
32.02
2
4
6
8

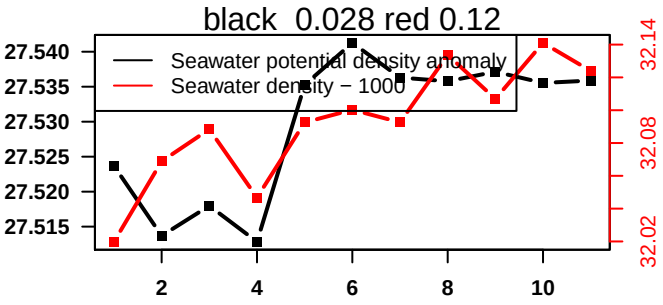

lovbio010b_000_00_06.txt
69
68
67
66
65
2
4
6
8
CDOM, [CN] / Points @ x s

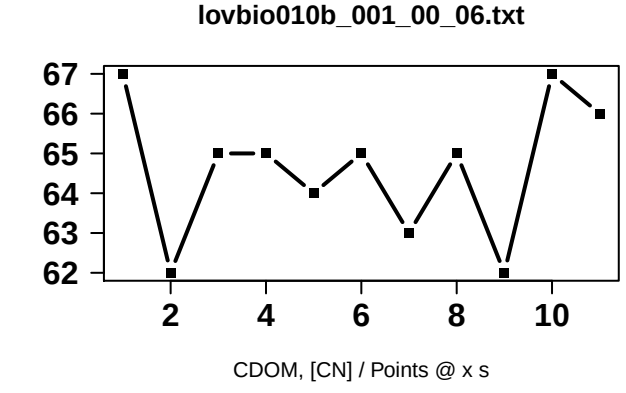

54
53
52
51
50
2
4
6
8
chl, [CN] / Points @ x s

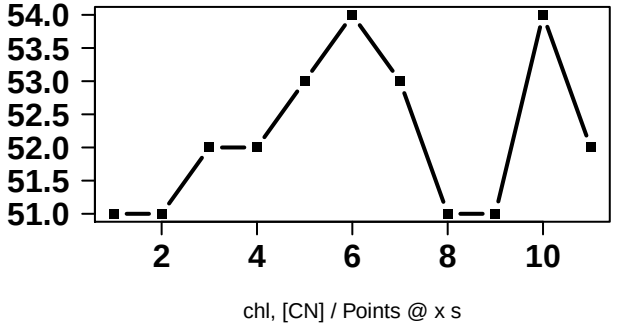

nb days: 0 freq: 0 min
104
102
100
98
96
94
92
2
4
6
8
beta, [CN] / Points @ x s

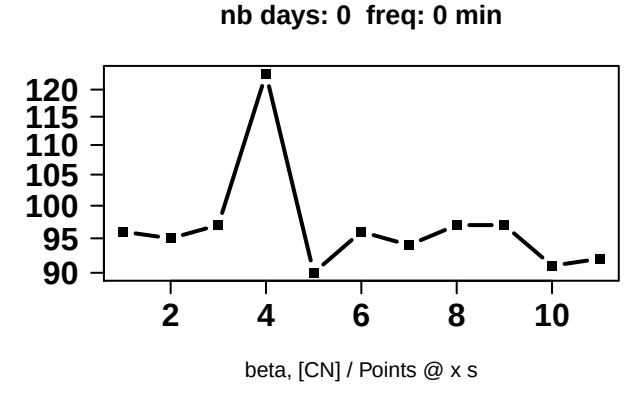

nb days: 0 freq: 0 min
0.1070
0.1065
0.1060
0.1055
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

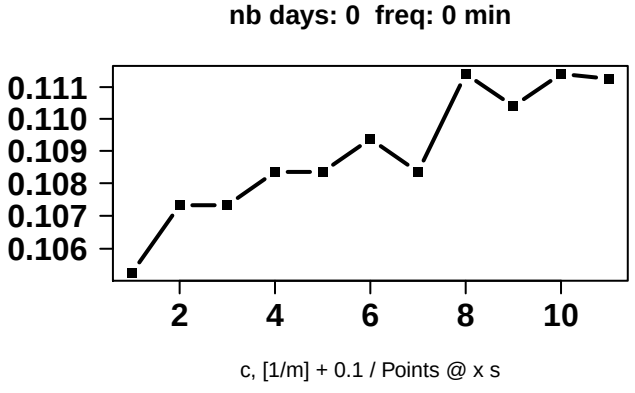

2012−10−25 01:11:59 2012−10−25 01:12:06
1015
1010
1005
1000
995
990
0
5
10
15
20
25
30
Pressure in

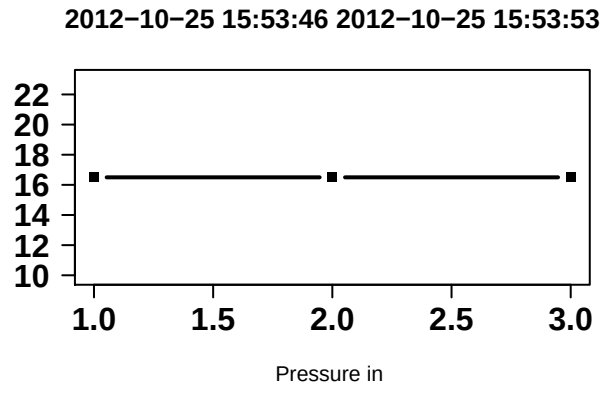

black 0.028 red 0.12
Seawater potential density anomaly
Seawater density − 1000
27.540
27.535
27.530
27.525
27.520
27.515
32.14
32.08
32.02
2
4
6
8
10

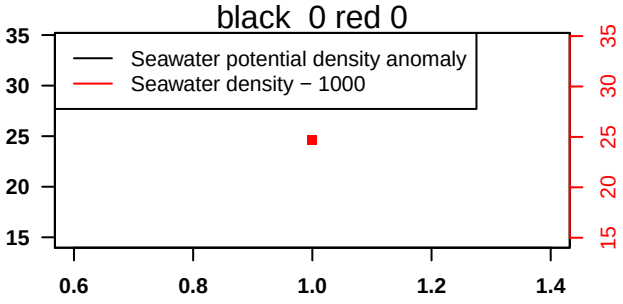

lovbio010b_001_00_06.txt
67
66
65
64
63
62
2
4
6
8
10
CDOM, [CN] / Points @ x s

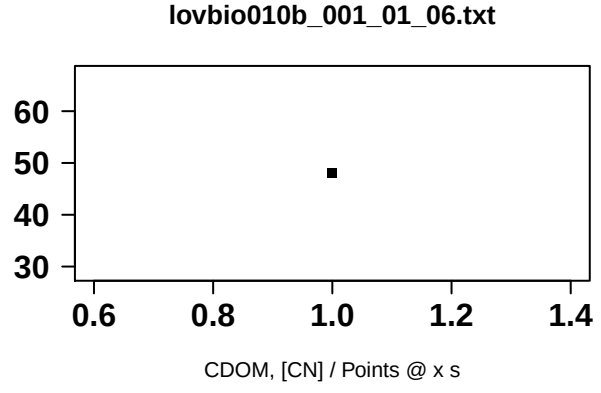

54.0
53.5
53.0
52.5
52.0
51.5
51.0
2
4
6
8
10
chl, [CN] / Points @ x s

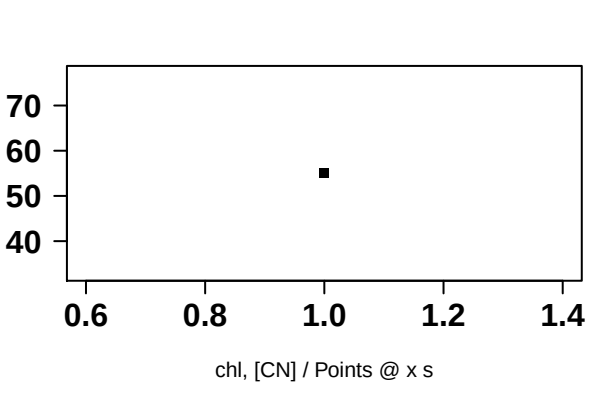

nb days: 0 freq: 0 min
120
115
110
105
100
95
90
2
4
6
8
10
beta, [CN] / Points @ x s

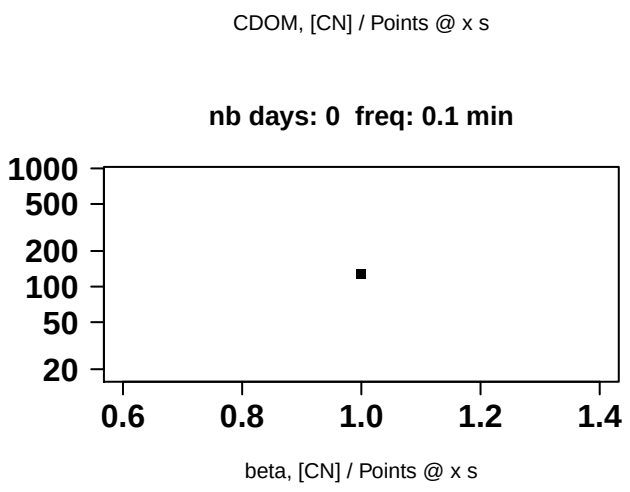

nb days: 0 freq: 0 min
0.111
0.110
0.109
0.108
0.107
0.106
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

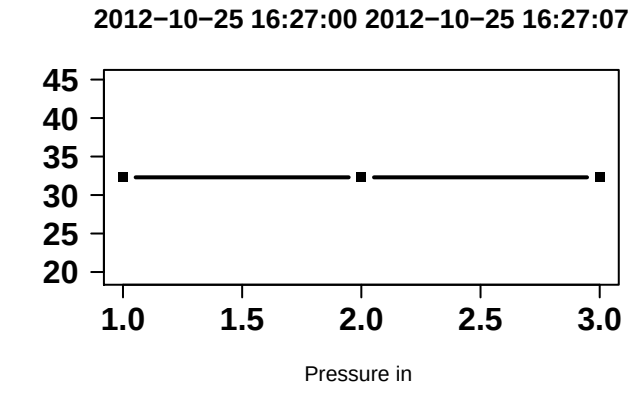

2012−10−25 15:53:46 2012−10−25 15:53:53
22
20
18
16
14
12
10
1.0
1.5
2.0
2.5
3.0
Pressure in

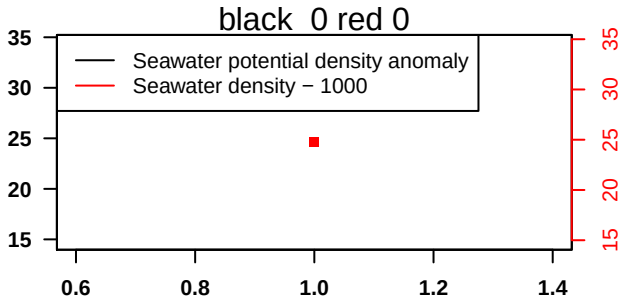

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
15
0.6
0.8
1.0
1.2
1.4

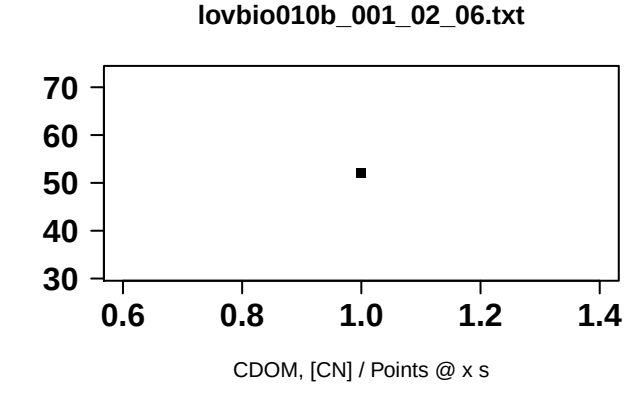

lovbio010b_001_01_06.txt
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

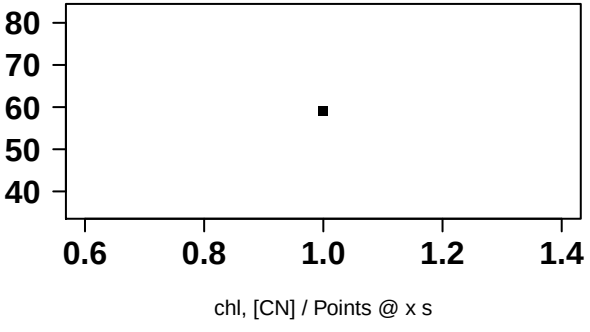

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

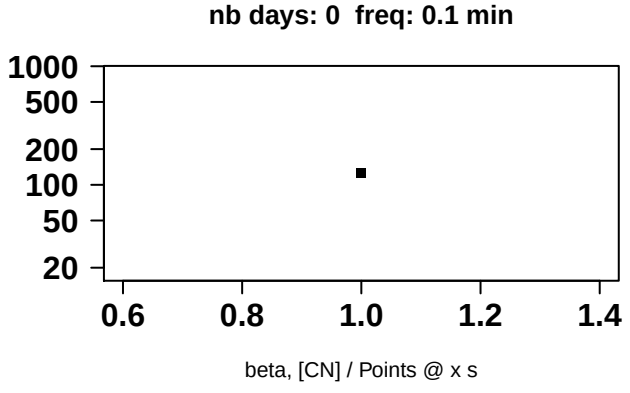

nb days: 0 freq: 0.1 min
1000
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

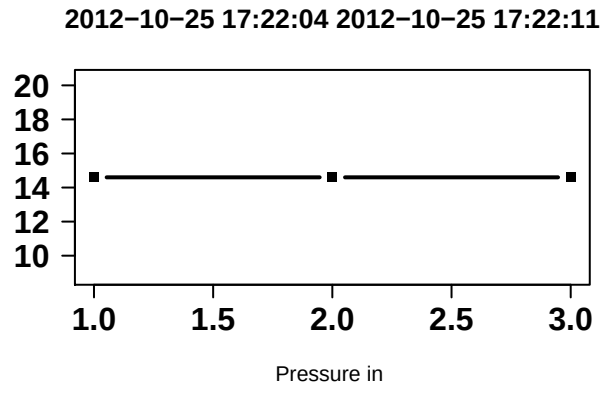

2012−10−25 16:27:00 2012−10−25 16:27:07
45
40
35
30
25
20
1.0
1.5
2.0
2.5
3.0
Pressure in

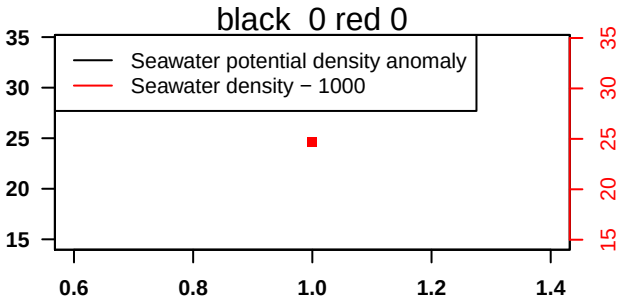

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
15
0.6
0.8
1.0
1.2
1.4

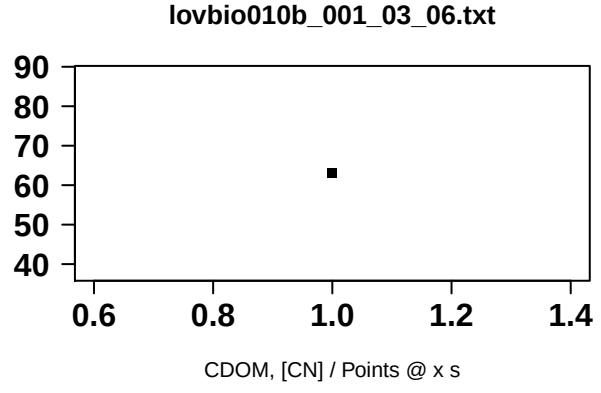

lovbio010b_001_02_06.txt
70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

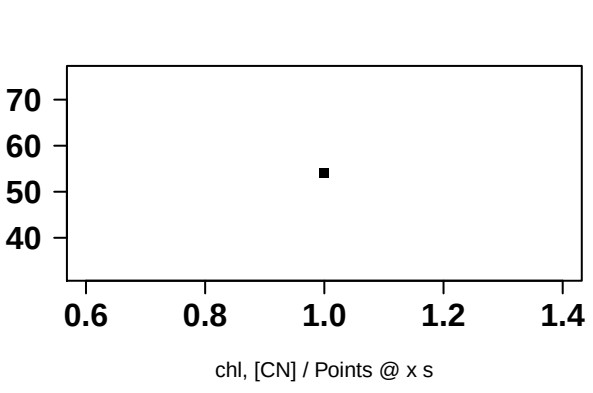

80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

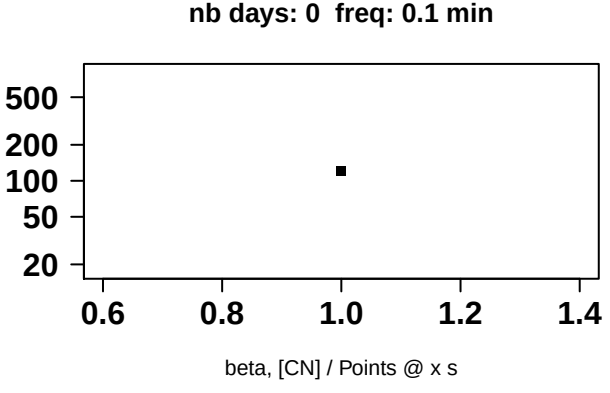

nb days: 0 freq: 0.1 min
1000
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

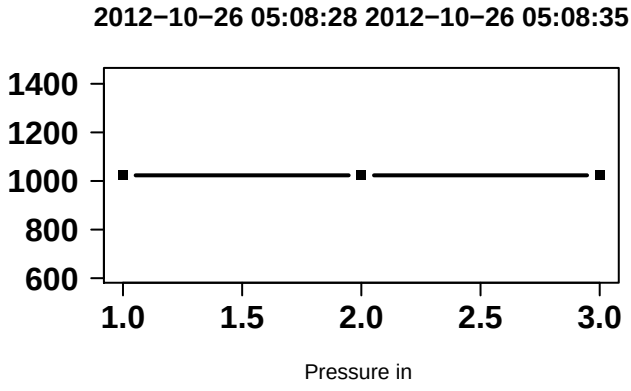

2012−10−25 17:22:04 2012−10−25 17:22:11
20
18
16
14
12
10
1.0
1.5
2.0
2.5
3.0
Pressure in

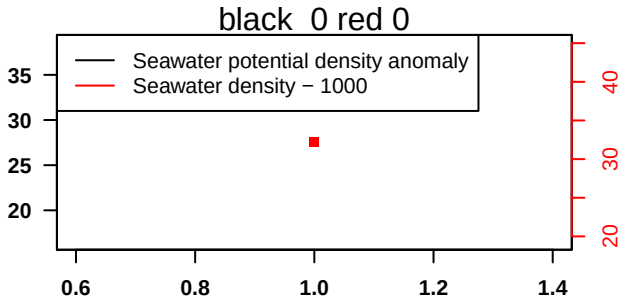

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
15
0.6
0.8
1.0
1.2
1.4

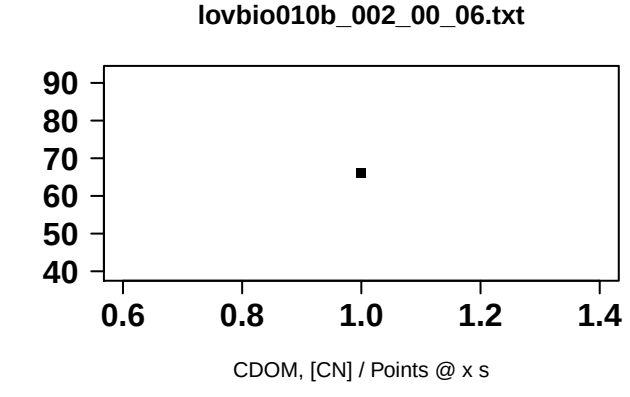

lovbio010b_001_03_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

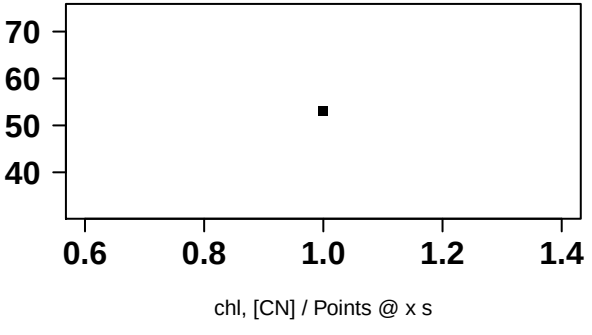

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

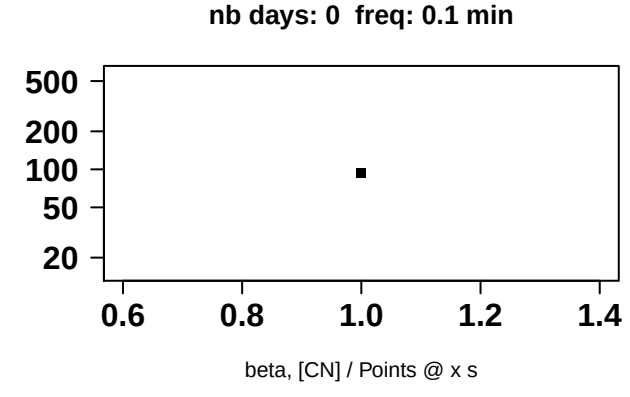

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

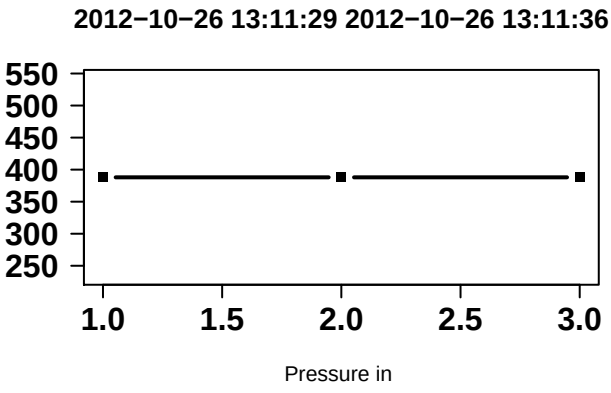

2012−10−26 05:08:28 2012−10−26 05:08:35
1400
1200
1000
800
600
1.0
1.5
2.0
2.5
3.0
Pressure in

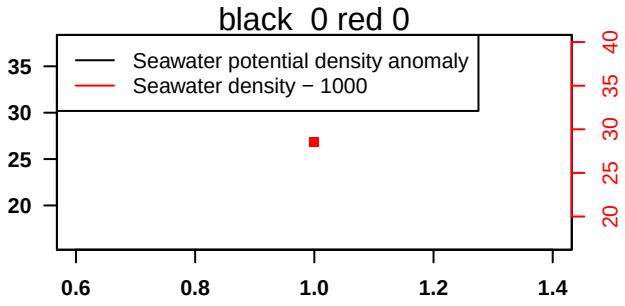

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

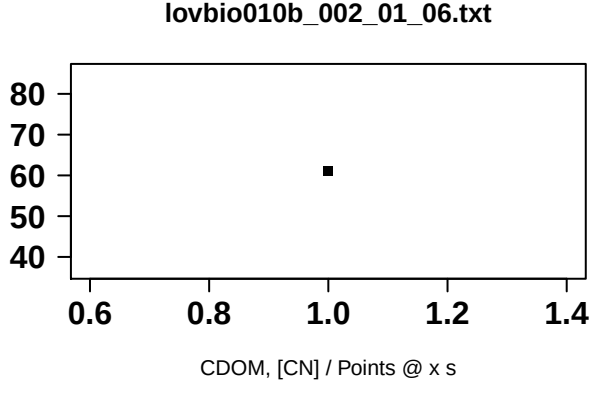

lovbio010b_002_00_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

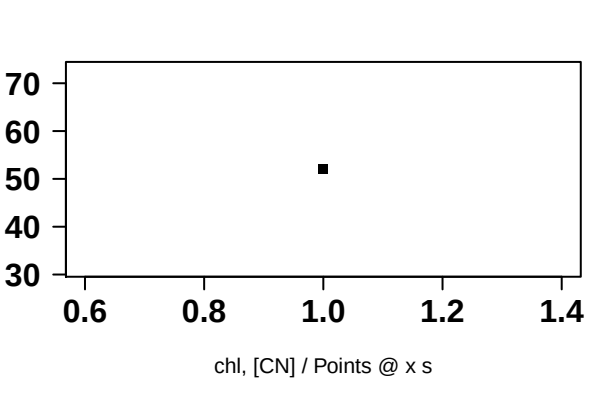

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

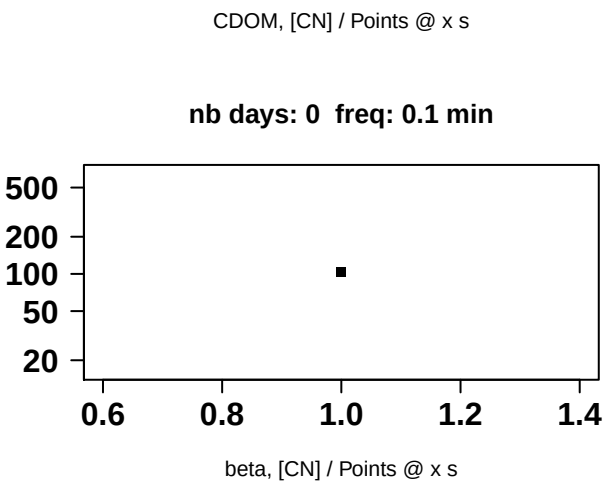

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

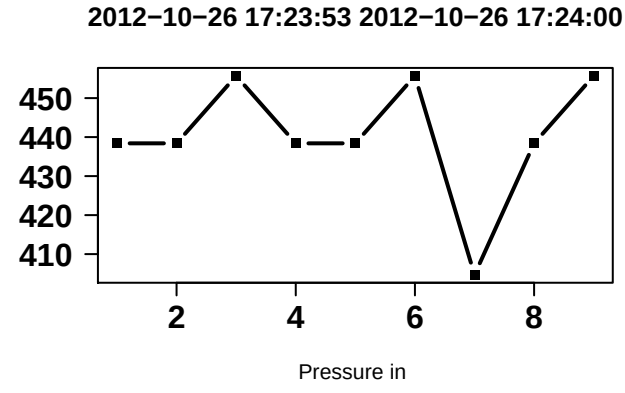

2012−10−26 13:11:29 2012−10−26 13:11:36
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

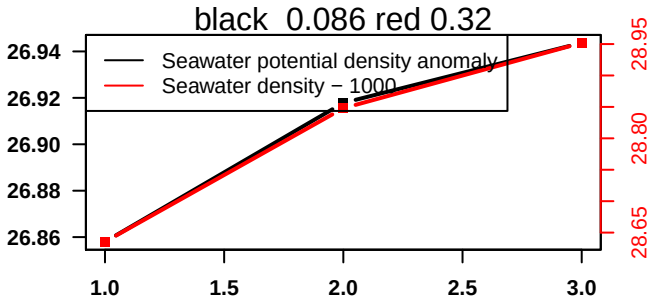

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

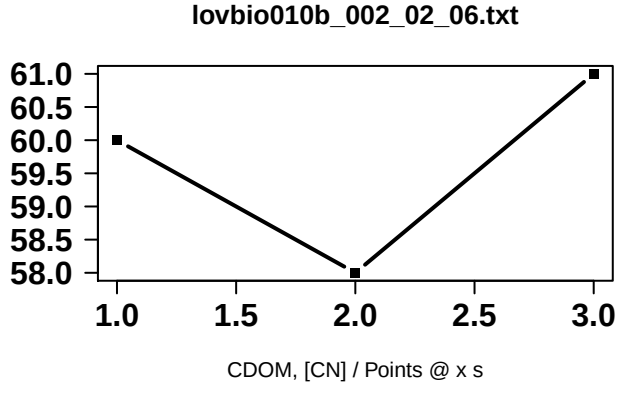

lovbio010b_002_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

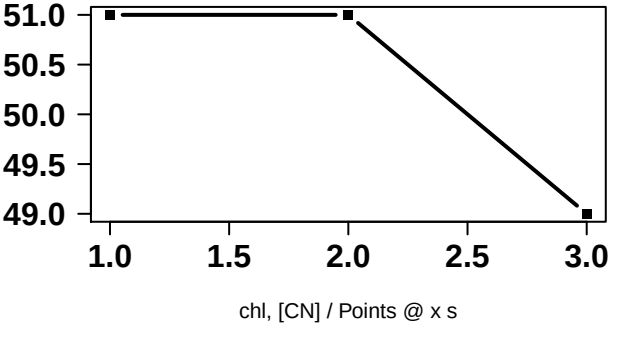

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

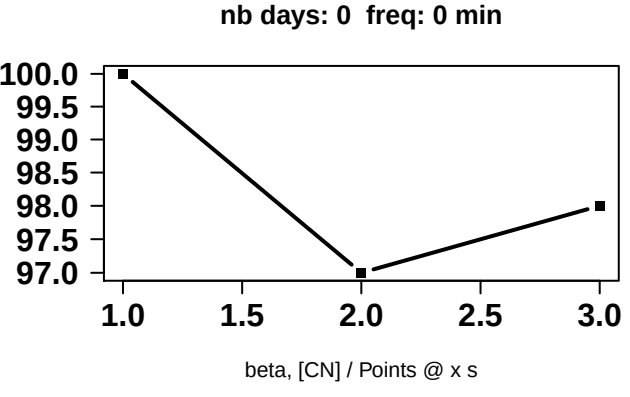

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

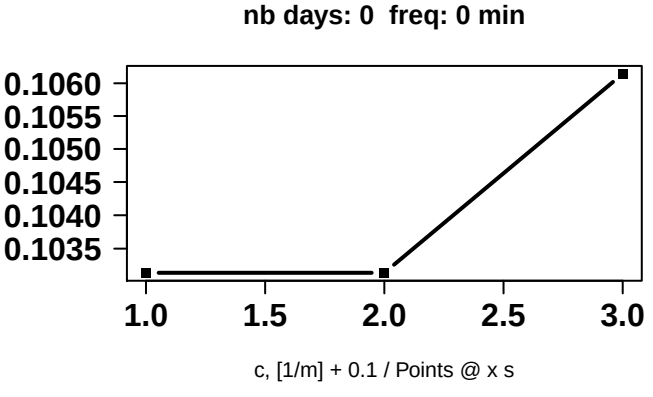

2012−10−26 17:23:53 2012−10−26 17:24:00
450
440
430
420
410
2
4
6
8
Pressure in

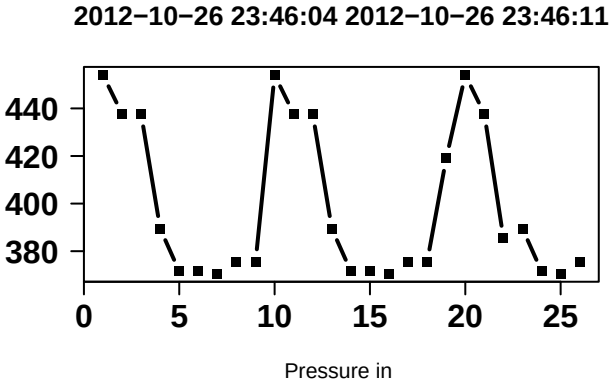

black 0.086 red 0.32
Seawater potential density anomaly
Seawater density − 1000
26.94
26.92
26.90
26.88
26.86
28.95
28.80
28.65
1.0
1.5
2.0
2.5
3.0

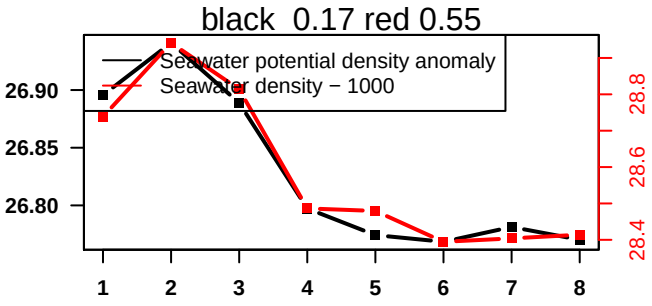

lovbio010b_002_02_06.txt
61.0
60.5
60.0
59.5
59.0
58.5
58.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

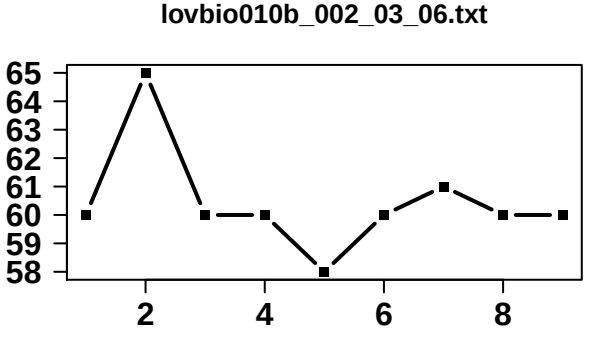

51.0
50.5
50.0
49.5
49.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

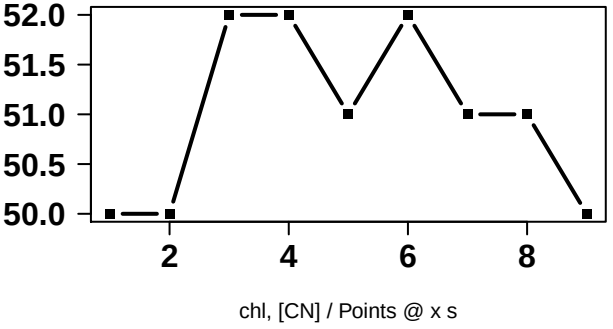

nb days: 0 freq: 0 min
100.0
99.5
99.0
98.5
98.0
97.5
97.0
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

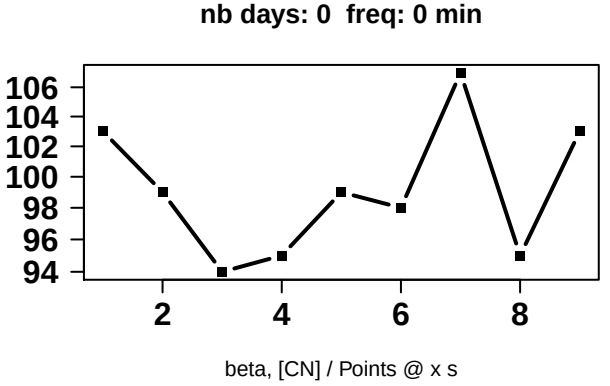

nb days: 0 freq: 0 min
0.1060
0.1055
0.1050
0.1045
0.1040
0.1035
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

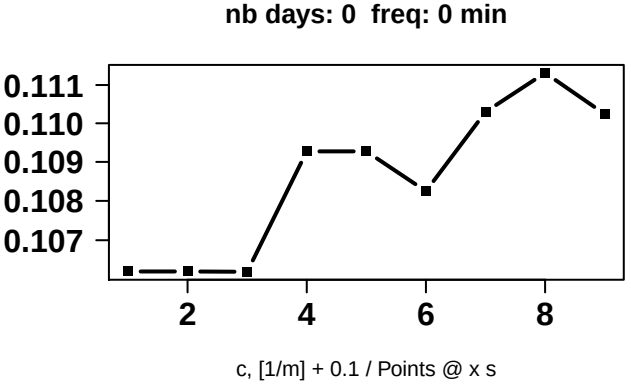

2012−10−26 23:46:04 2012−10−26 23:46:11
440
420
400
380
0
5
10
15
20
25
Pressure in

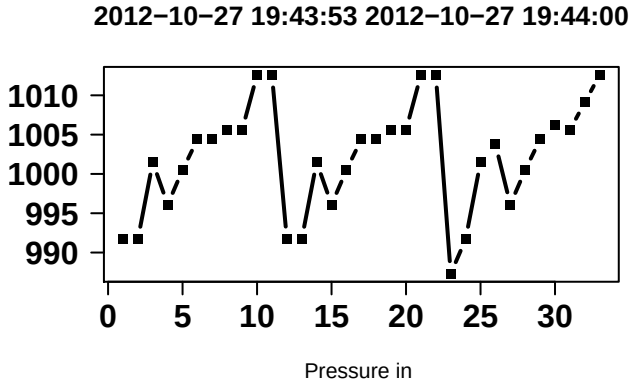

black 0.17 red 0.55
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
28.8
28.6
28.4
1
2
3
4
5
6
7
8

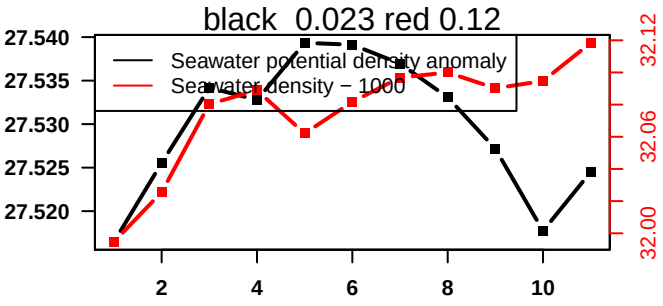

lovbio010b_002_03_06.txt
65
64
63
62
61
60
59
58
2
4
6
8
CDOM, [CN] / Points @ x s

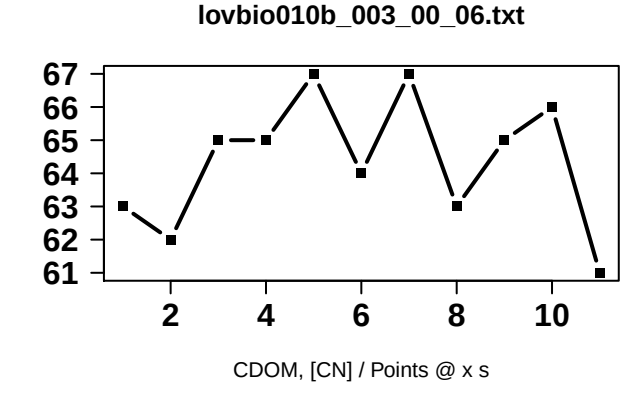

52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

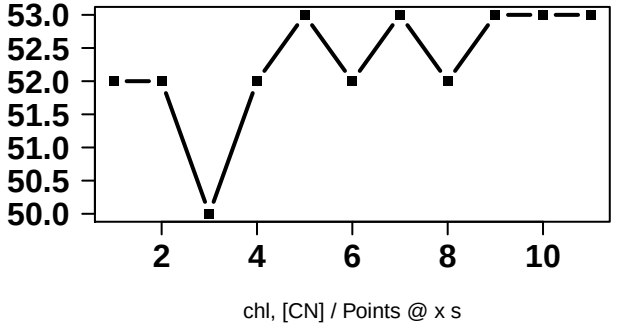

nb days: 0 freq: 0 min
106
104
102
100
98
96
94
2
4
6
8
beta, [CN] / Points @ x s

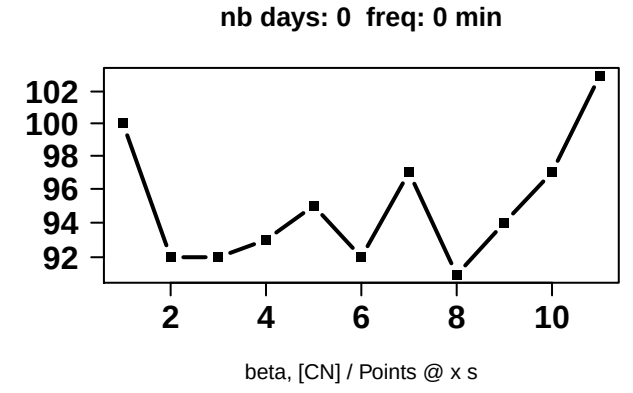

nb days: 0 freq: 0 min
0.111
0.110
0.109
0.108
0.107
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

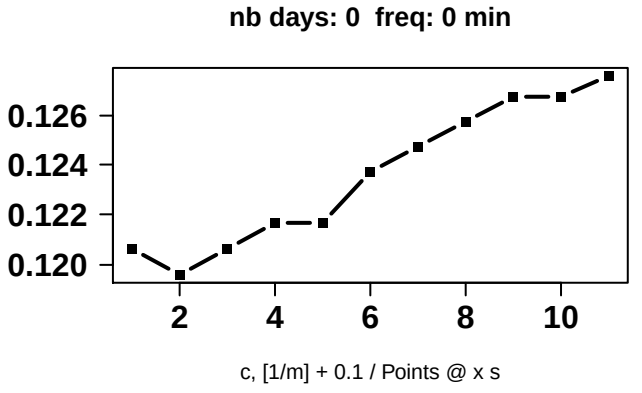

2012−10−27 19:43:53 2012−10−27 19:44:00
1010
1005
1000
995
990
0
5
10
15
20
25
30
Pressure in

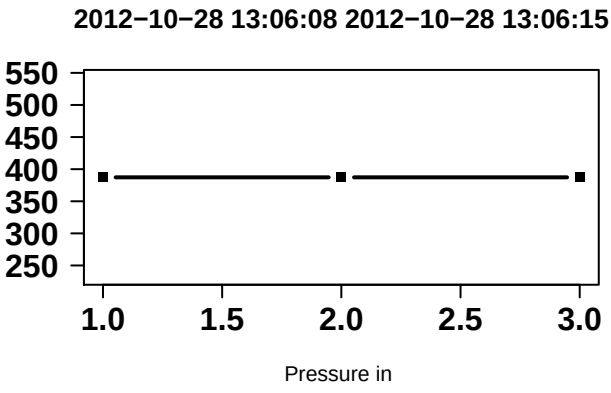

black 0.023 red 0.12
Seawater potential density anomaly
Seawater density − 1000
27.540
27.535
27.530
27.525
27.520
32.12
32.06
32.00
2
4
6
8
10

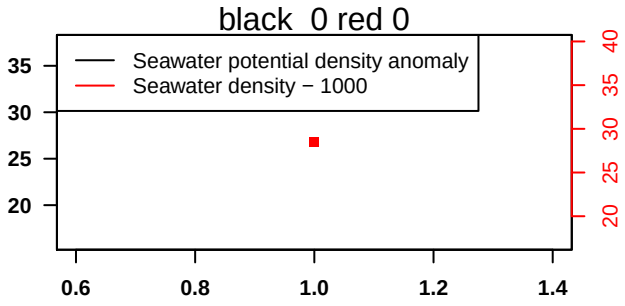

lovbio010b_003_00_06.txt
67
66
65
64
63
62
61
2
4
6
8
10
CDOM, [CN] / Points @ x s

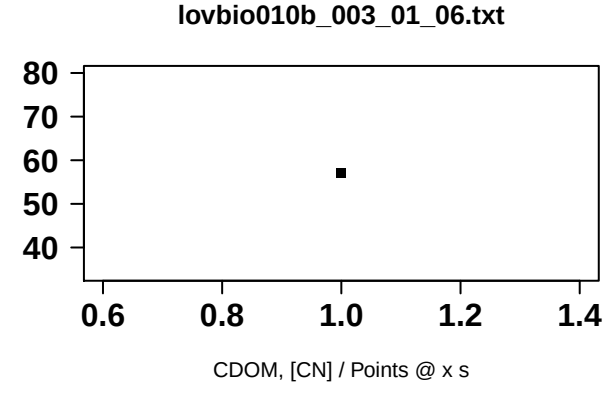

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

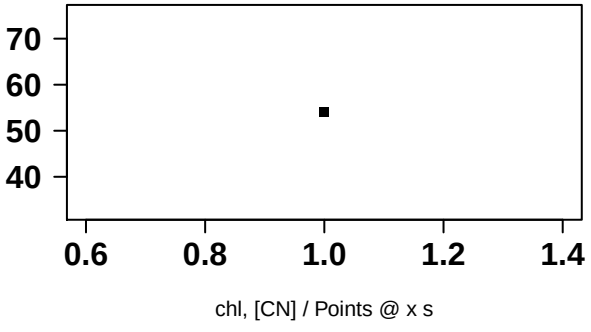

nb days: 0 freq: 0 min
102
100
98
96
94
92
2
4
6
8
10
beta, [CN] / Points @ x s

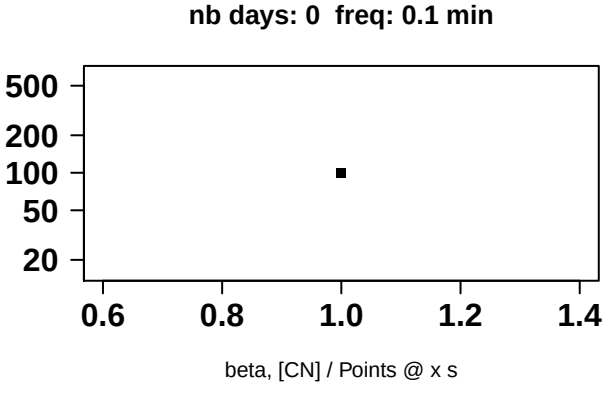

nb days: 0 freq: 0 min
0.126
0.124
0.122
0.120
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

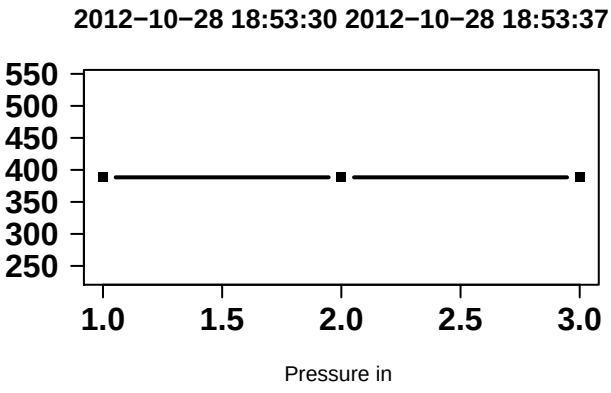

2012−10−28 13:06:08 2012−10−28 13:06:15
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

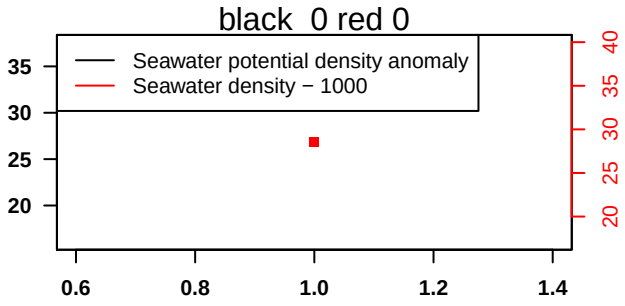

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

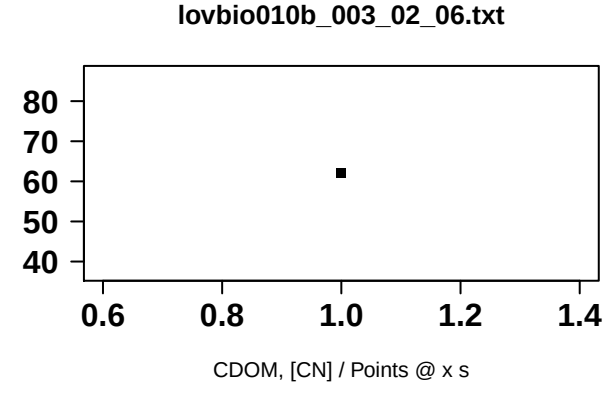

lovbio010b_003_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

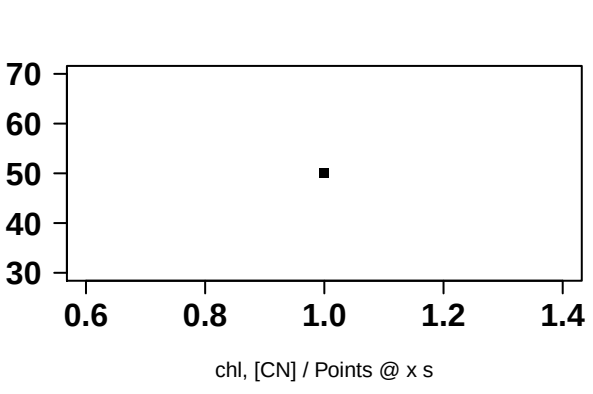

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

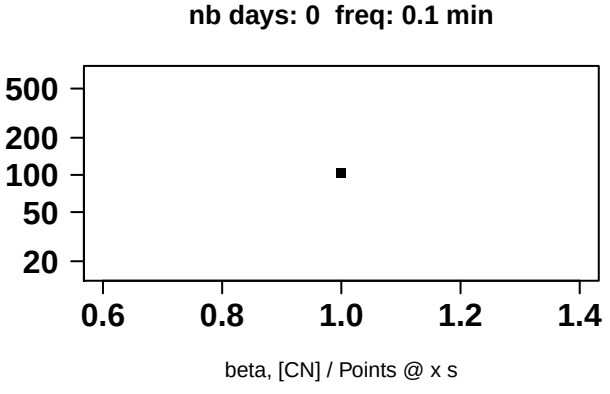

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

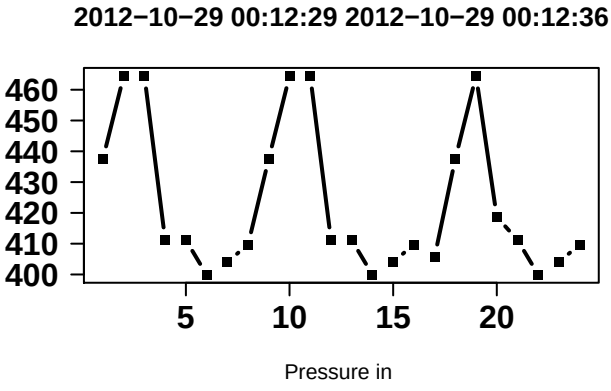

2012−10−28 18:53:30 2012−10−28 18:53:37
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

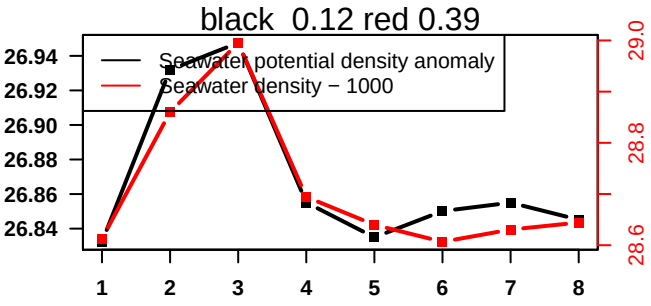

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

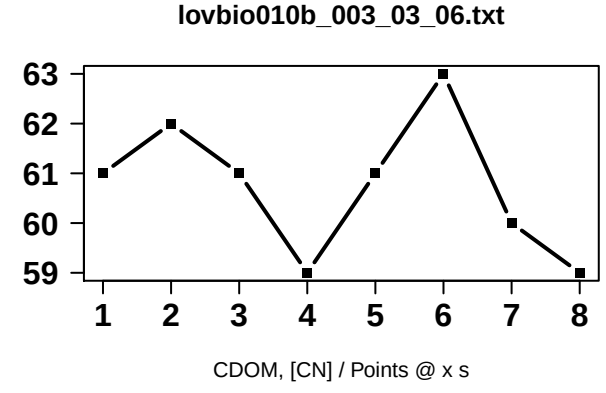

lovbio010b_003_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

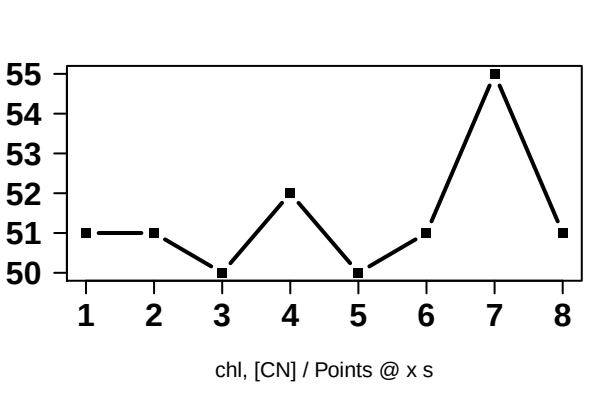

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

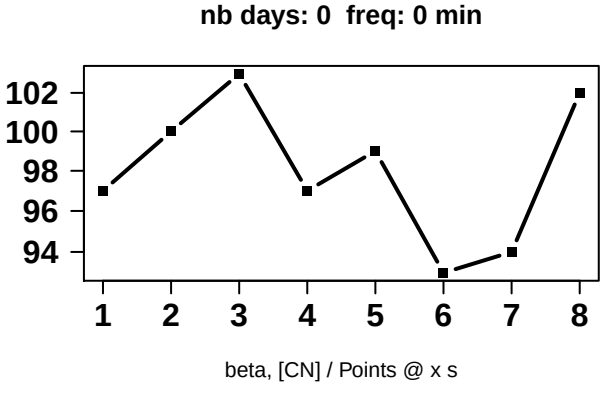

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

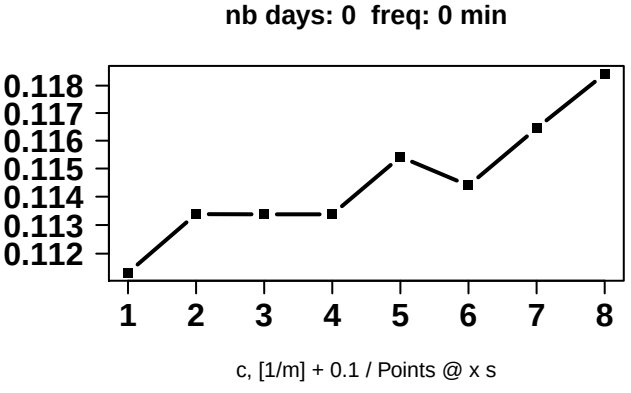

2012−10−29 00:12:29 2012−10−29 00:12:36
460
450
440
430
420
410
400
5
10
15
20
Pressure in

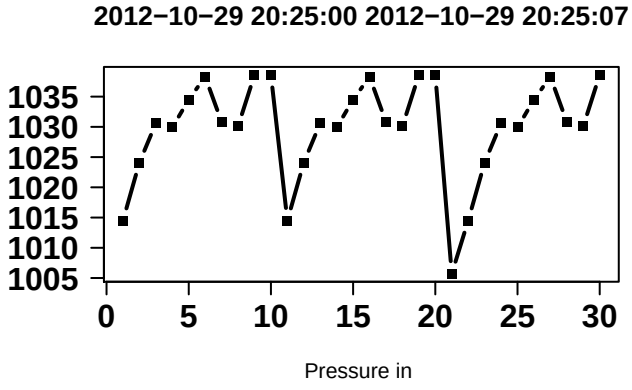

black 0.12 red 0.39
Seawater potential density anomaly
Seawater density − 1000
26.94
26.92
26.90
26.88
26.86
26.84
29.0
28.8
28.6
1
2
3
4
5
6
7
8

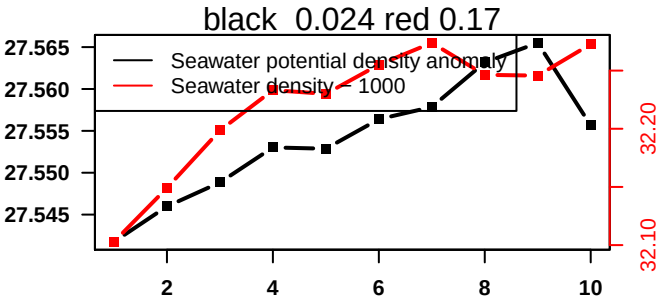

lovbio010b_003_03_06.txt
63
62
61
60
59
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

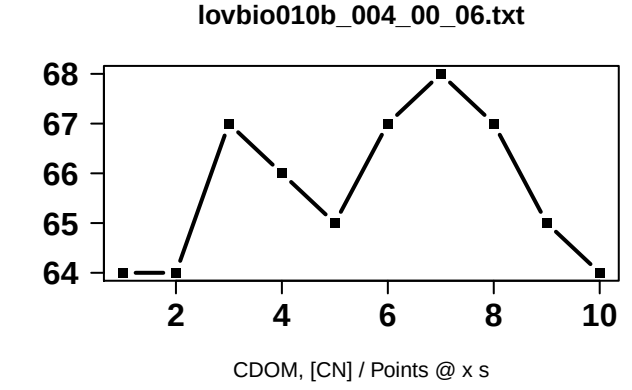

55
54
53
52
51
50
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

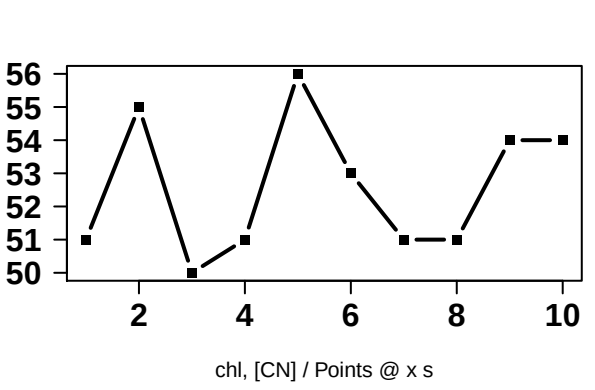

nb days: 0 freq: 0 min
102
100
98
96
94
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

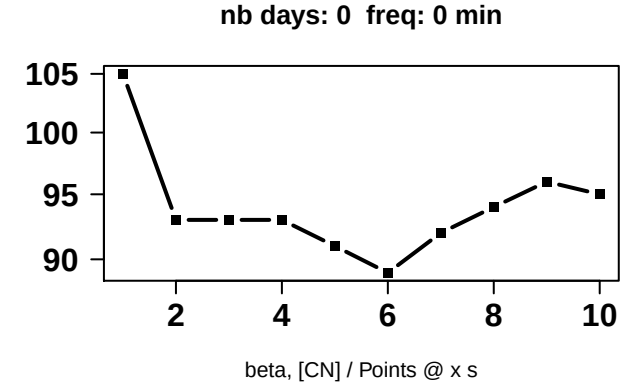

nb days: 0 freq: 0 min
0.118
0.117
0.116
0.115
0.114
0.113
0.112
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

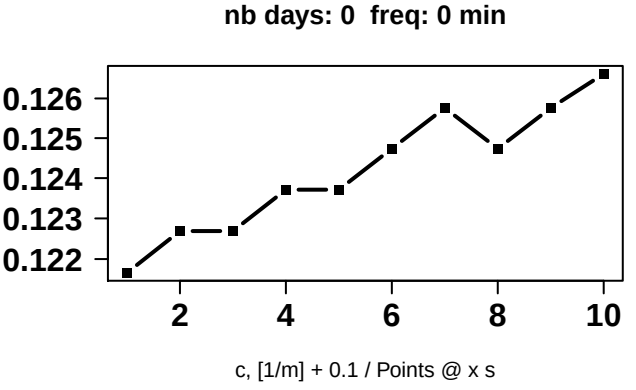

2012−10−29 20:25:00 2012−10−29 20:25:07
1035
1030
1025
1020
1015
1010
1005
0
5
10
15
20
25
30
Pressure in

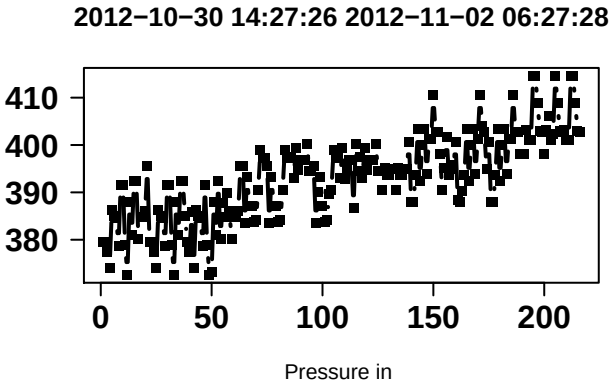

black 0.024 red 0.17
Seawater potential density anomaly
Seawater density − 1000
27.565
27.560
27.555
27.550
27.545
32.20
32.10
2
4
6
8
10

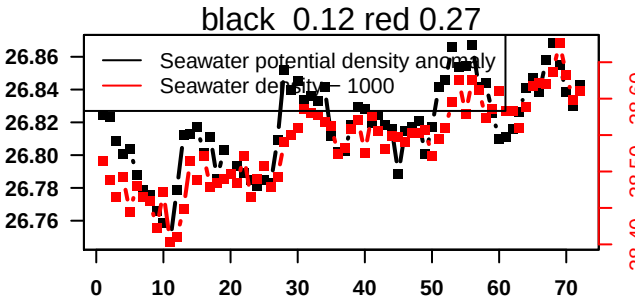

lovbio010b_004_00_06.txt
68
67
66
65
64
2
4
6
8
10
CDOM, [CN] / Points @ x s

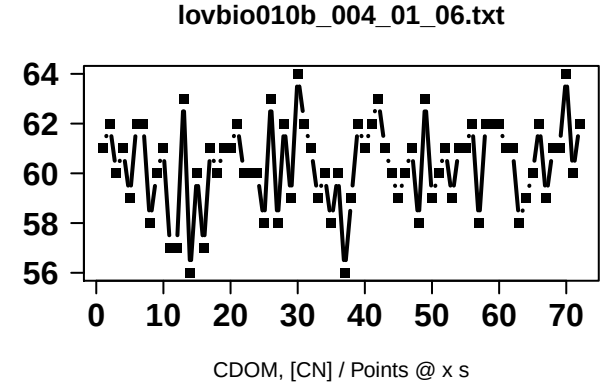

56
55
54
53
52
51
50
2
4
6
8
10
chl, [CN] / Points @ x s

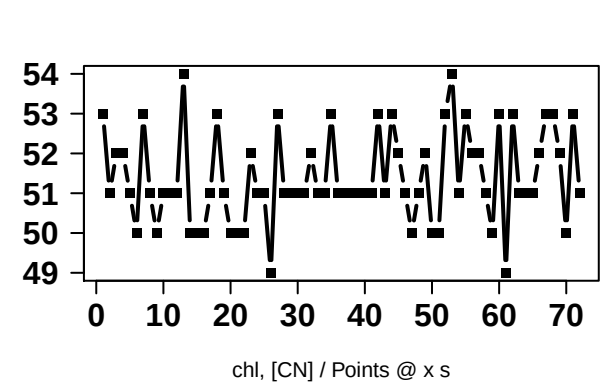

nb days: 0 freq: 0 min
105
100
95
90
2
4
6
8
10
beta, [CN] / Points @ x s

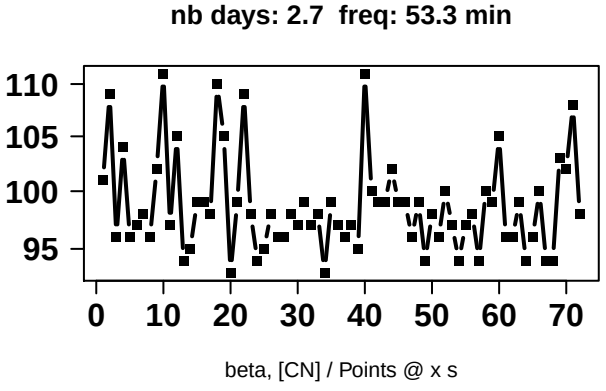

nb days: 0 freq: 0 min
0.126
0.125
0.124
0.123
0.122
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

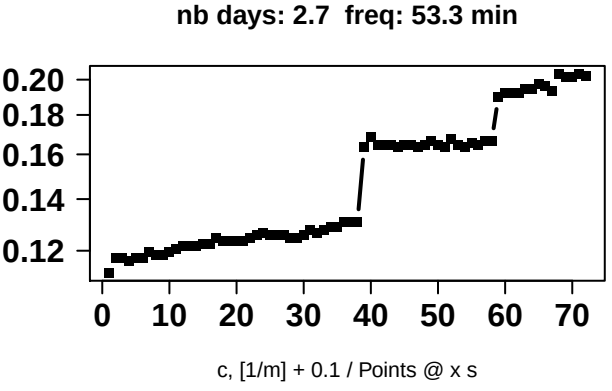

2012−10−30 14:27:26 2012−11−02 06:27:28
410
400
390
380
0
50
100
150
200
Pressure in

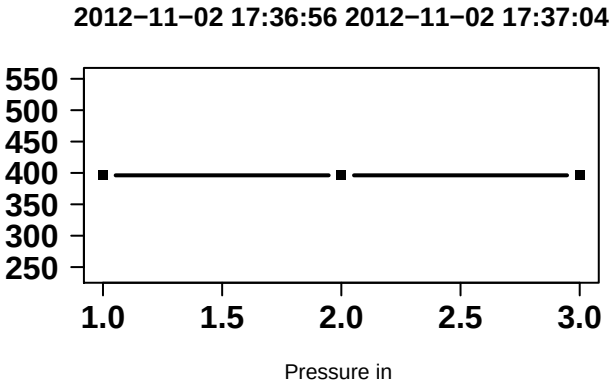

black 0.12 red 0.27
Seawater potential density anomaly
Seawater density − 1000
26.86
26.84
26.82
26.80
26.78
26.76
28.60
28.50
28.40
0
10
20
30
40
50
60
70

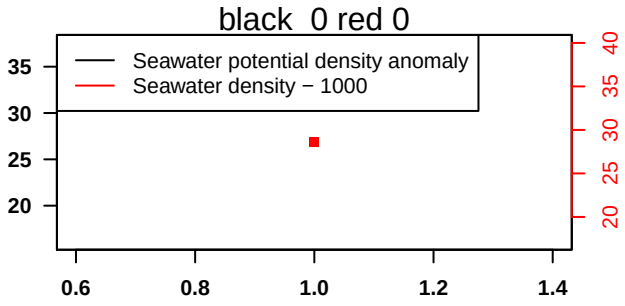

lovbio010b_004_01_06.txt
64
62
60
58
56
0
10
20
30
40
50
60
70
CDOM, [CN] / Points @ x s

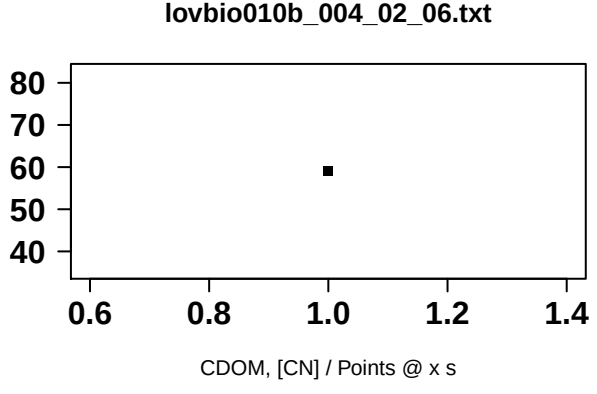

54
53
52
51
50
49
0
10
20
30
40
50
60
70
chl, [CN] / Points @ x s

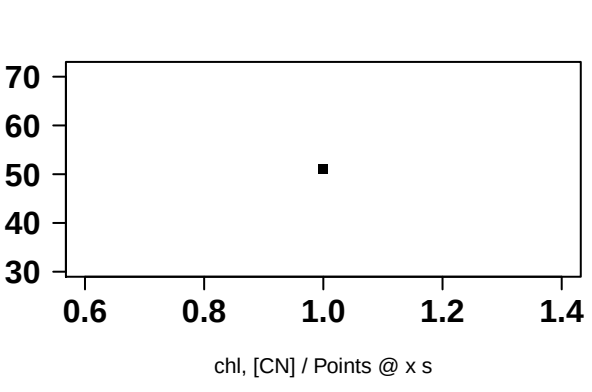

nb days: 2.7 freq: 53.3 min
110
105
100
95
0
10
20
30
40
50
60
70
beta, [CN] / Points @ x s

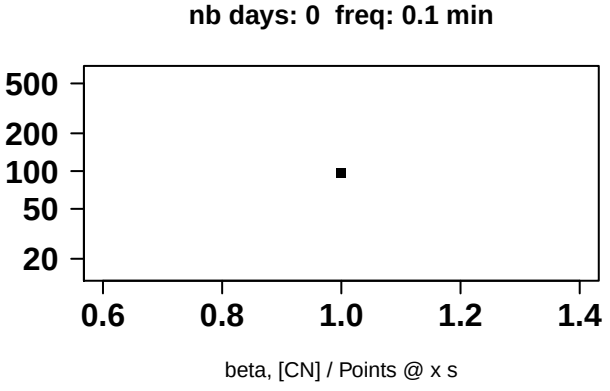

nb days: 2.7 freq: 53.3 min
0.20
0.18
0.16
0.14
0.12
0
10
20
30
40
50
60
70
c, [1/m] + 0.1 / Points @ x s

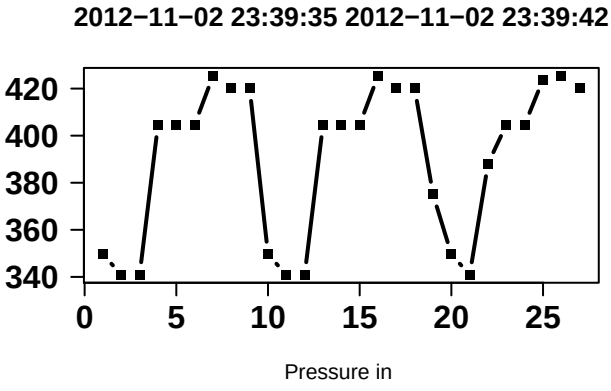

2012−11−02 17:36:56 2012−11−02 17:37:04
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

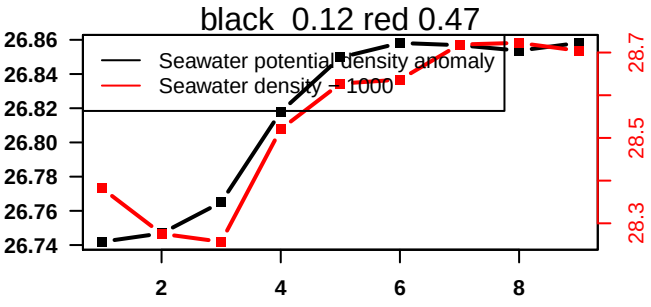

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

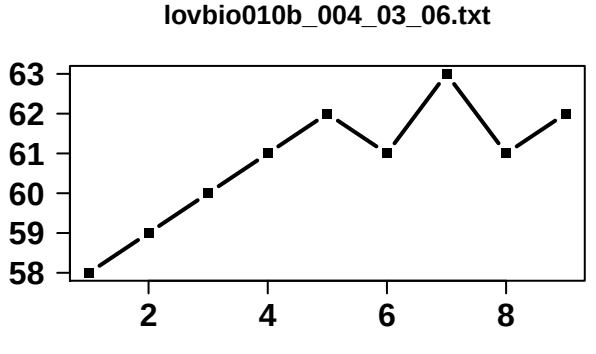

lovbio010b_004_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

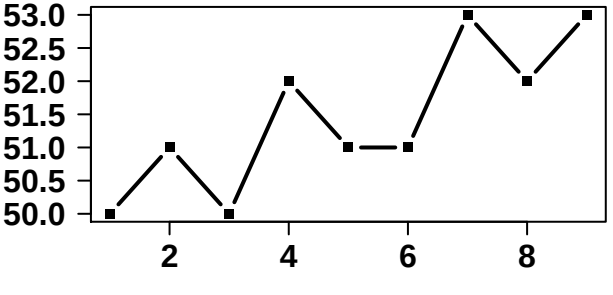

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

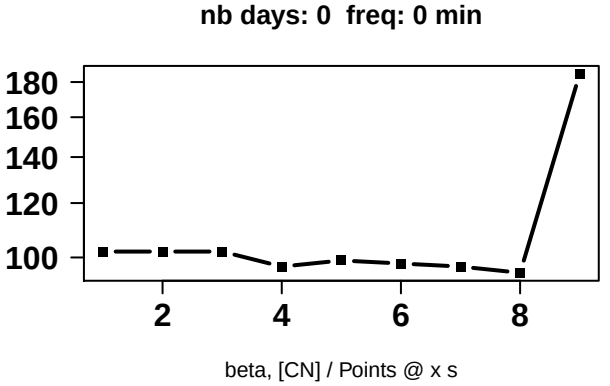

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

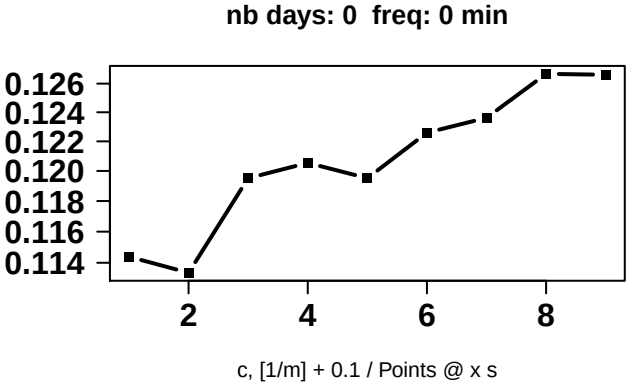

2012−11−02 23:39:35 2012−11−02 23:39:42
420
400
380
360
340
0
5
10
15
20
25
Pressure in

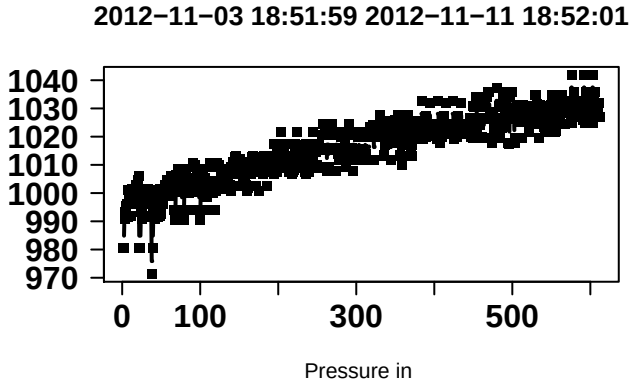

black 0.12 red 0.47
Seawater potential density anomaly
Seawater density − 1000
26.86
26.84
26.82
26.80
26.78
26.76
26.74
28.7
28.5
28.3
2
4
6
8

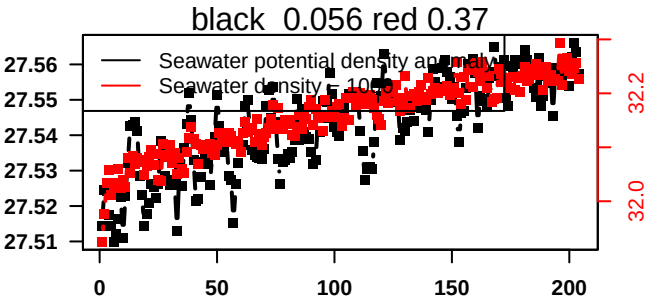

lovbio010b_004_03_06.txt
63
62
61
60
59
58
2
4
6
8
CDOM, [CN] / Points @ x s

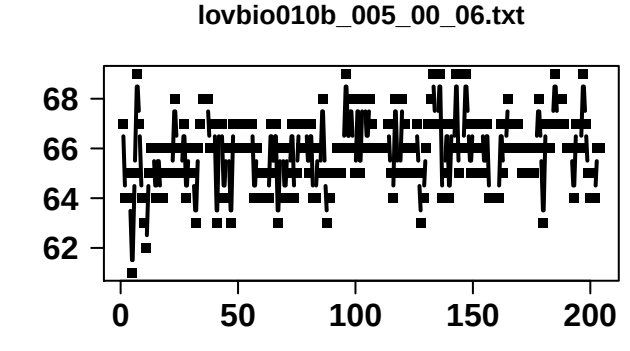

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

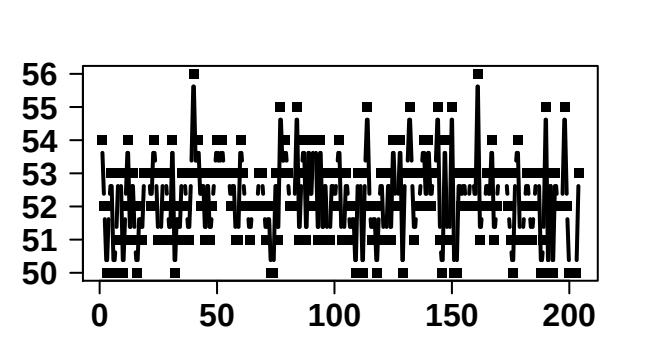

nb days: 0 freq: 0 min
180
160
140
120
100
2
4
6
8
beta, [CN] / Points @ x s

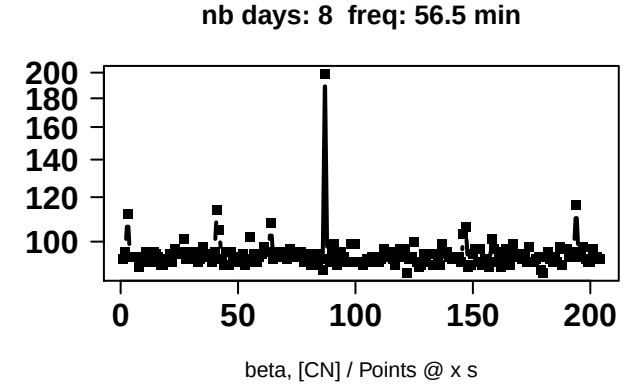

nb days: 0 freq: 0 min
0.126
0.124
0.122
0.120
0.118
0.116
0.114
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

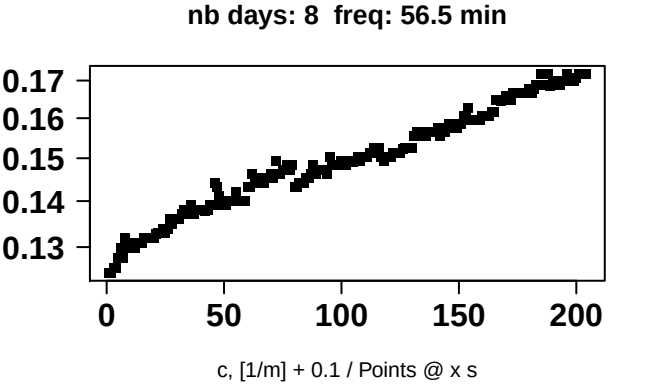

2012−11−03 18:51:59 2012−11−11 18:52:01
1040
1030
1020
1010
1000
990
980
970
0
100
300
500
Pressure in

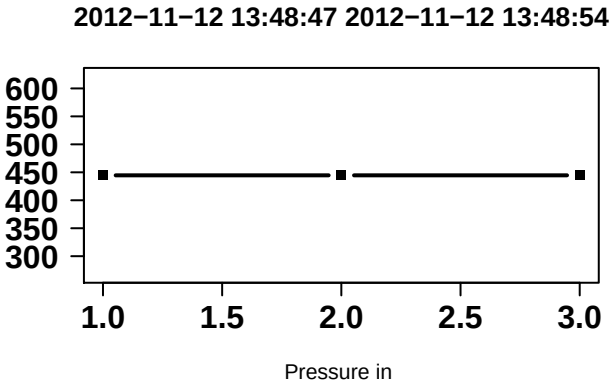

black 0.056 red 0.37
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
27.51
32.2
32.0
0
50
100
150
200

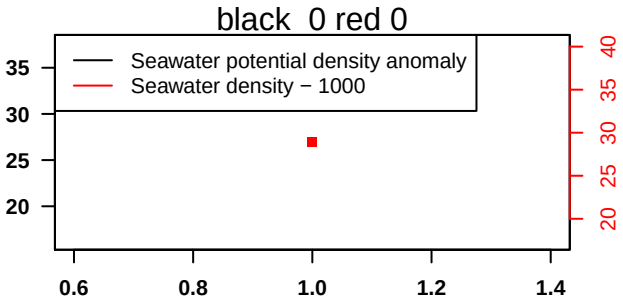

lovbio010b_005_00_06.txt
68
66
64
62
0
50
100
150
200
CDOM, [CN] / Points @ x s

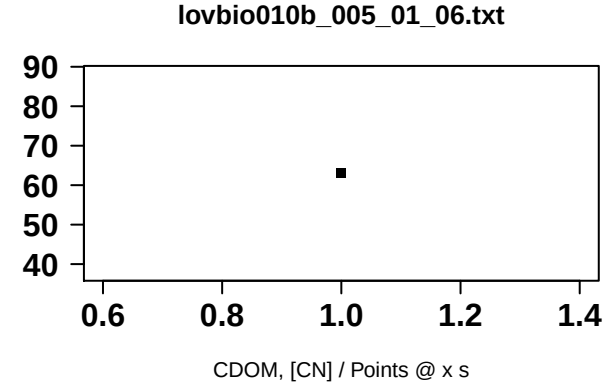

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

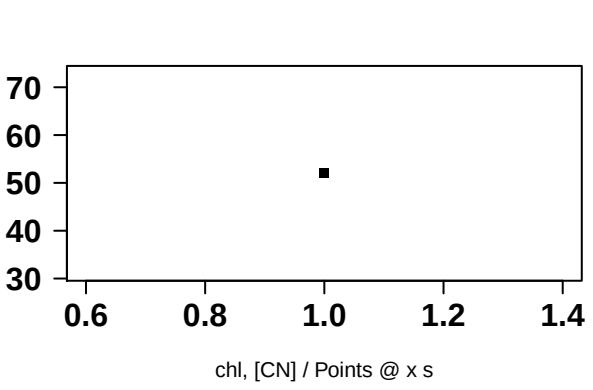

nb days: 8 freq: 56.5 min
200
180
160
140
120
100
0
50
100
150
200
beta, [CN] / Points @ x s

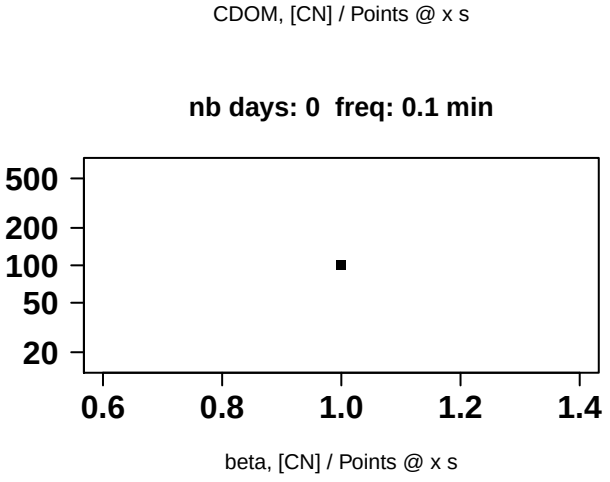

nb days: 8 freq: 56.5 min
0.17
0.16
0.15
0.14
0.13
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

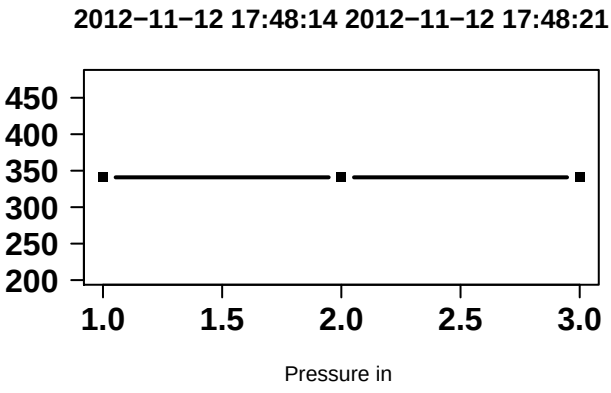

2012−11−12 13:48:47 2012−11−12 13:48:54
600
550
500
450
400
350
300
1.0
1.5
2.0
2.5
3.0
Pressure in

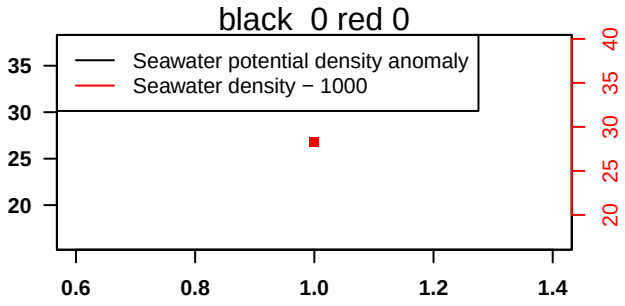

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

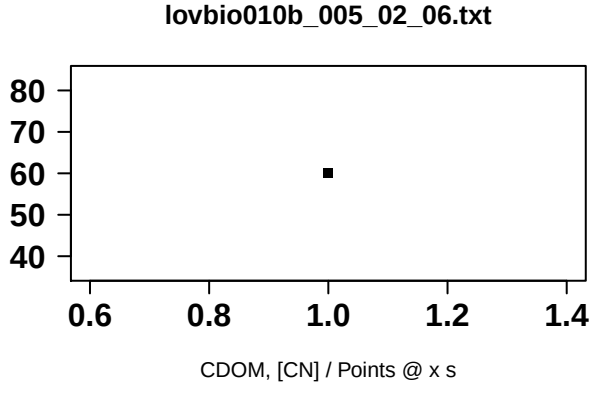

lovbio010b_005_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

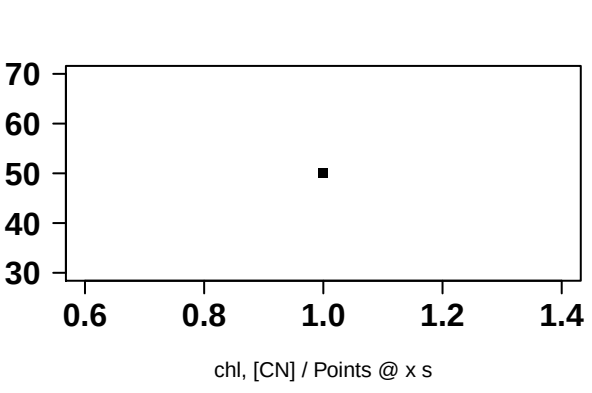

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

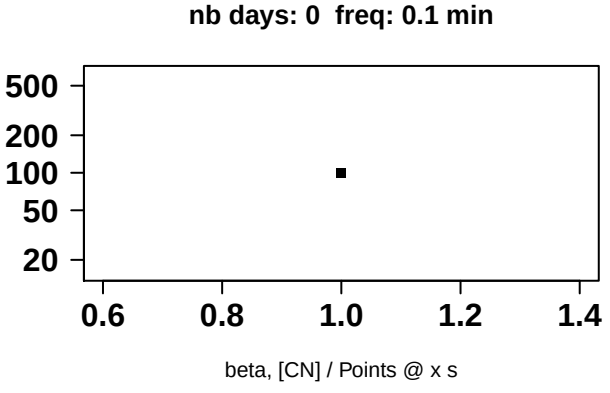

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

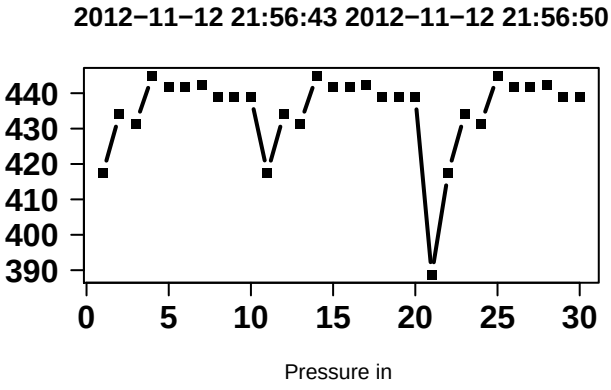

2012−11−12 17:48:14 2012−11−12 17:48:21
450
400
350
300
250
200
1.0
1.5
2.0
2.5
3.0
Pressure in

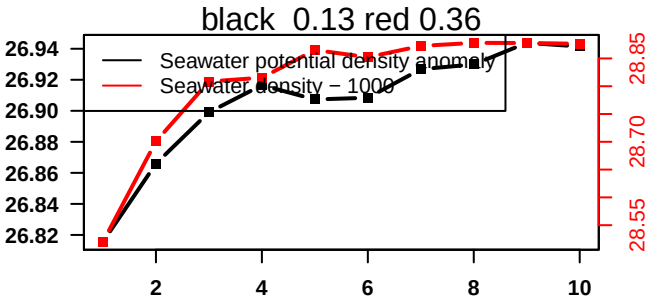

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

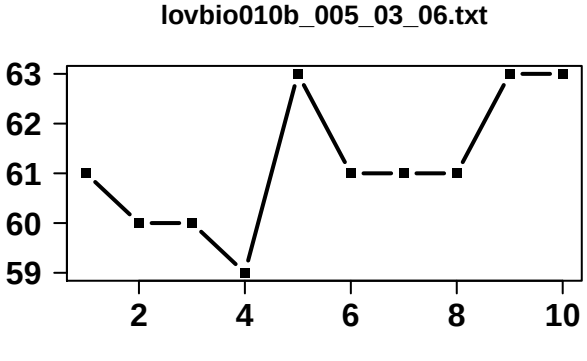

lovbio010b_005_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

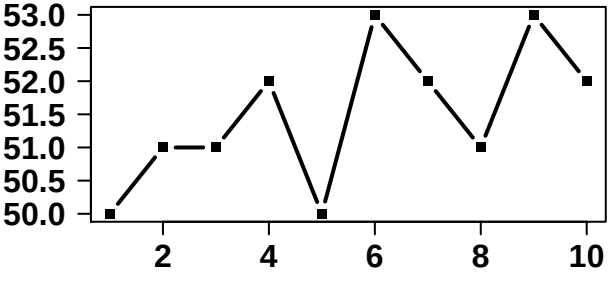

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

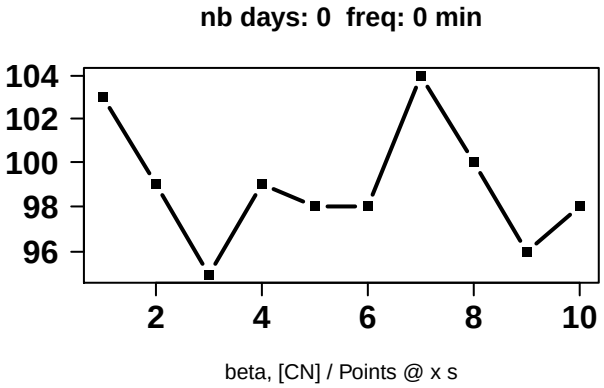

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

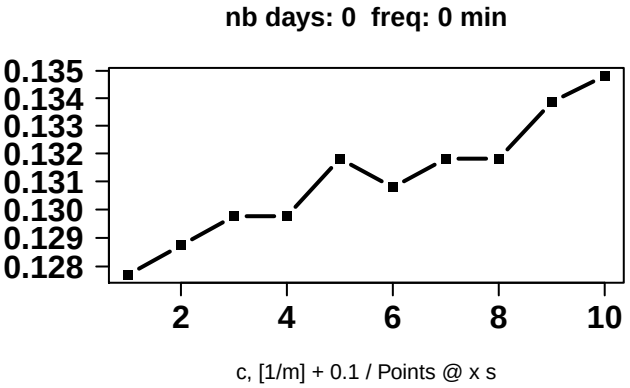

2012−11−12 21:56:43 2012−11−12 21:56:50
440
430
420
410
400
390
0
5
10
15
20
25
30
Pressure in

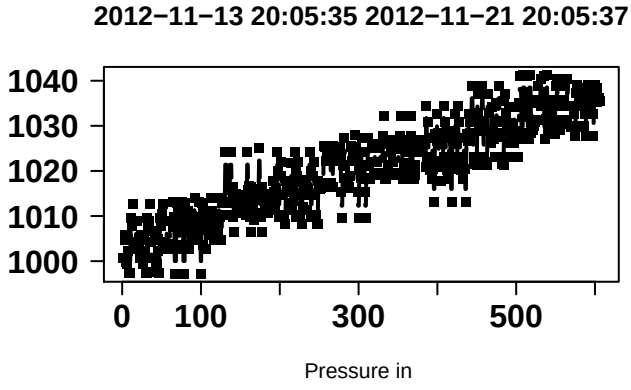

black 0.13 red 0.36
Seawater potential density anomaly
Seawater density − 1000
26.94
26.92
26.90
26.88
26.86
26.84
26.82
28.85
28.70
28.55
2
4
6
8
10

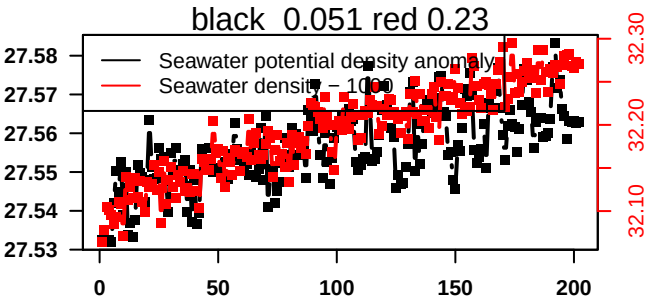

lovbio010b_005_03_06.txt
63
62
61
60
59
2
4
6
8
10
CDOM, [CN] / Points @ x s

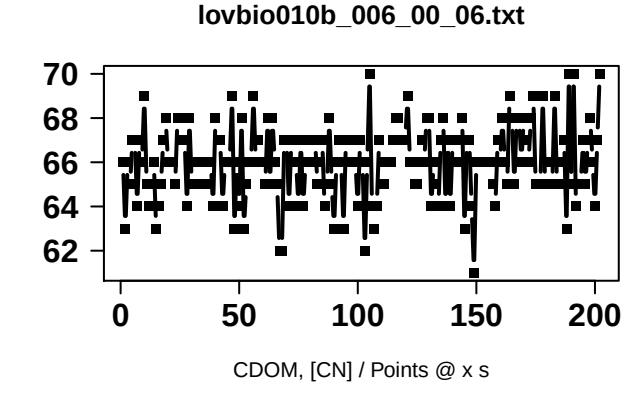

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

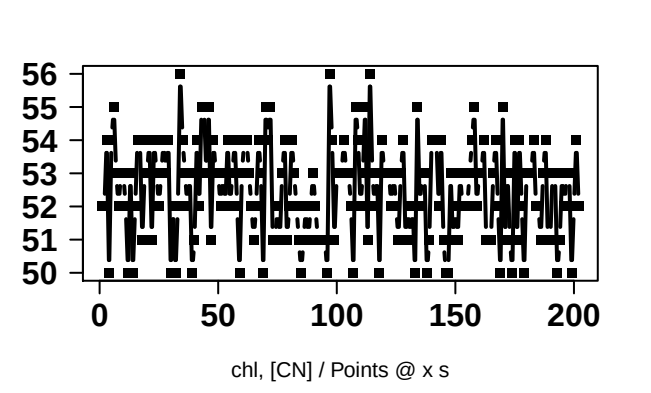

nb days: 0 freq: 0 min
104
102
100
98
96
2
4
6
8
10
beta, [CN] / Points @ x s

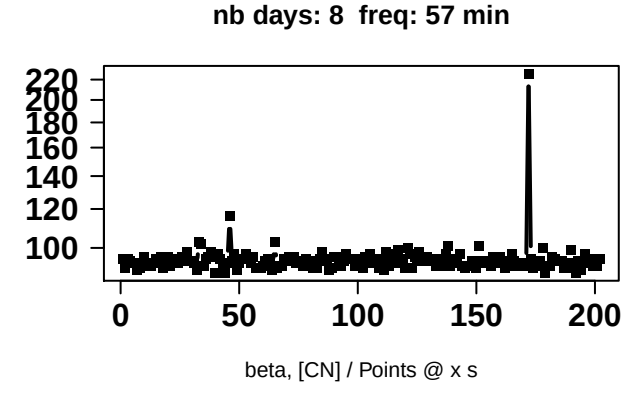

nb days: 0 freq: 0 min
0.135
0.134
0.133
0.132
0.131
0.130
0.129
0.128
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

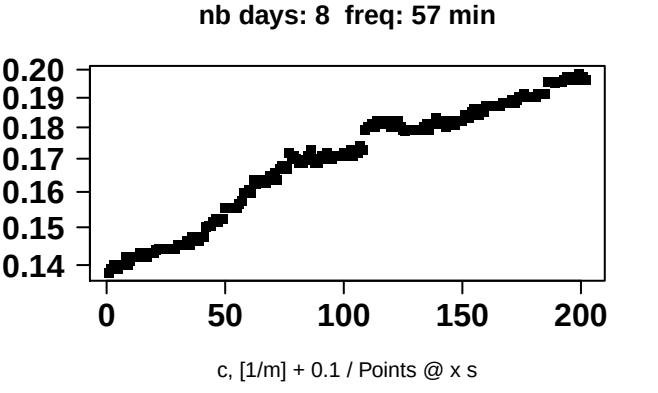

2012−11−13 20:05:35 2012−11−21 20:05:37
1040
1030
1020
1010
1000
0
100
300
500
Pressure in

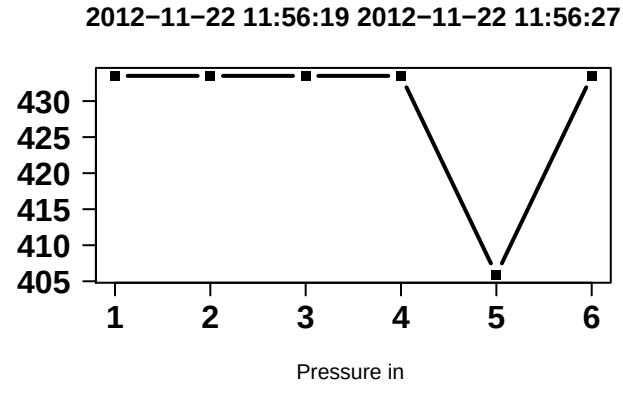

black 0.051 red 0.23
Seawater potential density anomaly
Seawater density − 1000
27.58
27.57
27.56
27.55
27.54
27.53
32.30
32.20
32.10
0
50
100
150
200

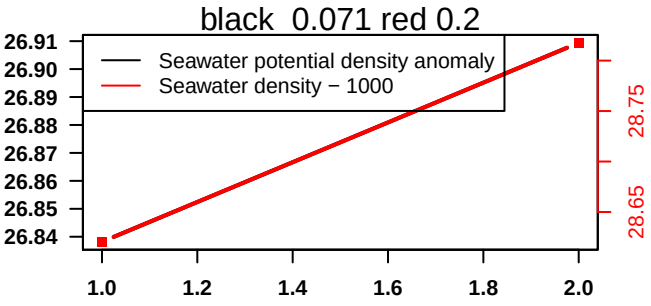

lovbio010b_006_00_06.txt
70
68
66
64
62
0
50
100
150
200
CDOM, [CN] / Points @ x s

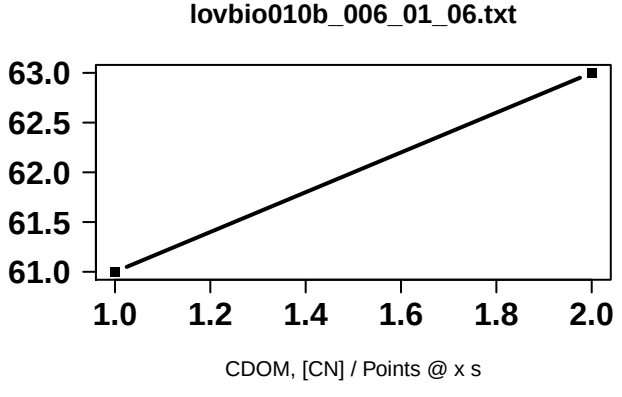

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

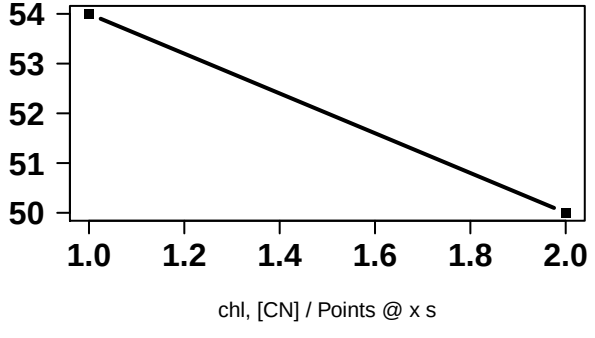

nb days: 8 freq: 57 min
220
200
180
160
140
120
100
0
50
100
150
200
beta, [CN] / Points @ x s

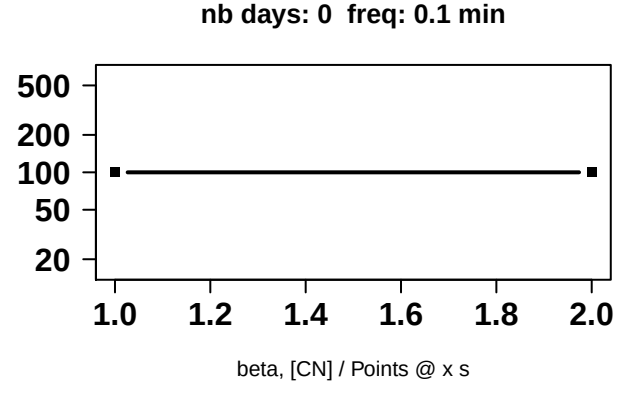

nb days: 8 freq: 57 min
0.20
0.19
0.18
0.17
0.16
0.15
0.14
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

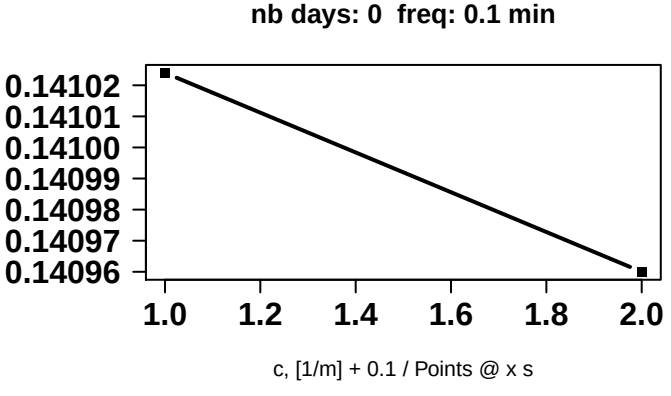

2012−11−22 11:56:19 2012−11−22 11:56:27
430
425
420
415
410
405
1
2
3
4
5
6
Pressure in

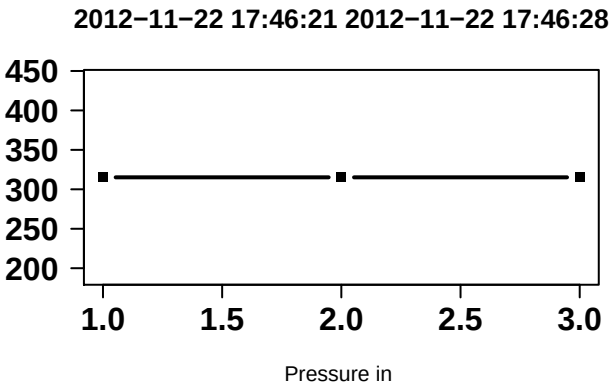

black 0.071 red 0.2
Seawater potential density anomaly
Seawater density − 1000
26.91
26.90
26.89
26.88
26.87
26.86
26.85
26.84
28.75
28.65
1.0
1.2
1.4
1.6
1.8
2.0

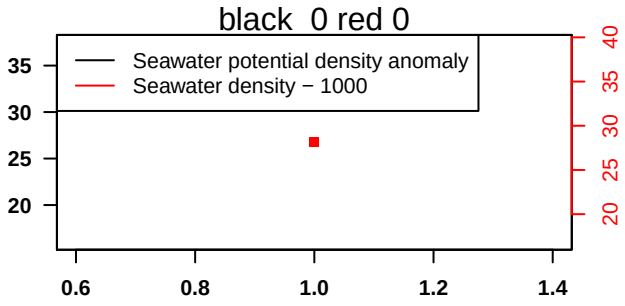

lovbio010b_006_01_06.txt
63.0
62.5
62.0
61.5
61.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

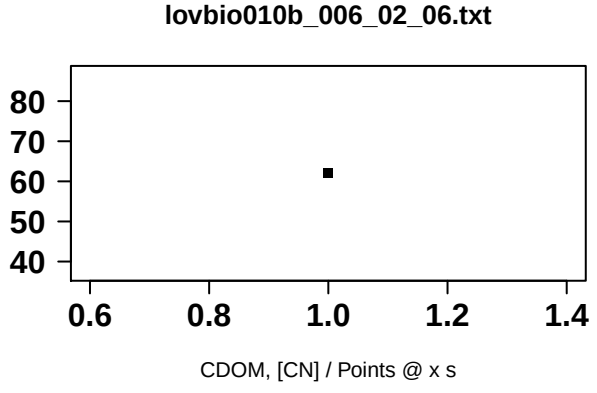

54
53
52
51
50
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

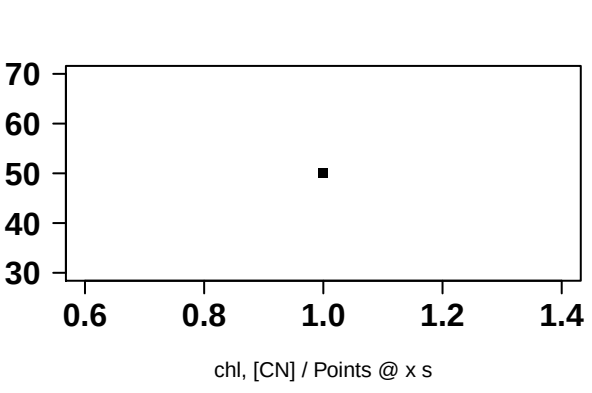

nb days: 0 freq: 0.1 min
500
200
100
50
20
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

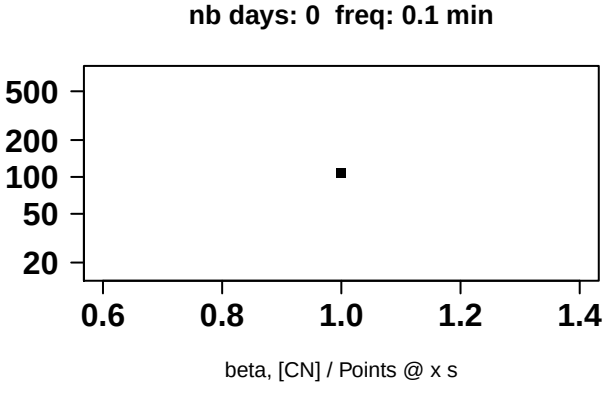

nb days: 0 freq: 0.1 min
0.14102
0.14101
0.14100
0.14099
0.14098
0.14097
0.14096
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

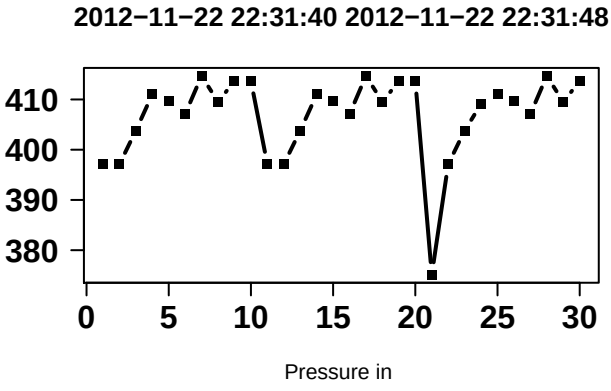

2012−11−22 17:46:21 2012−11−22 17:46:28
450
400
350
300
250
200
1.0
1.5
2.0
2.5
3.0
Pressure in

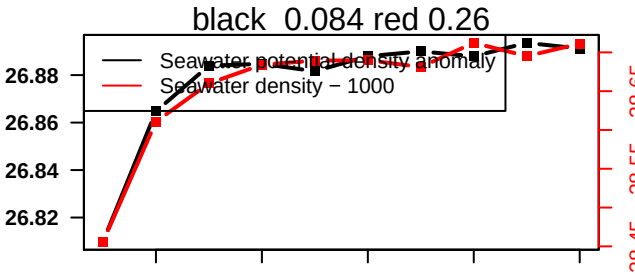

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

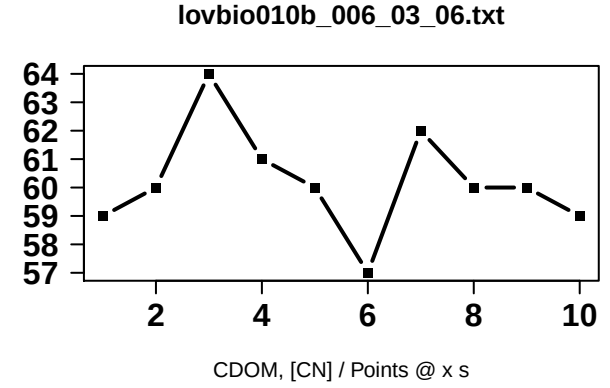

lovbio010b_006_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

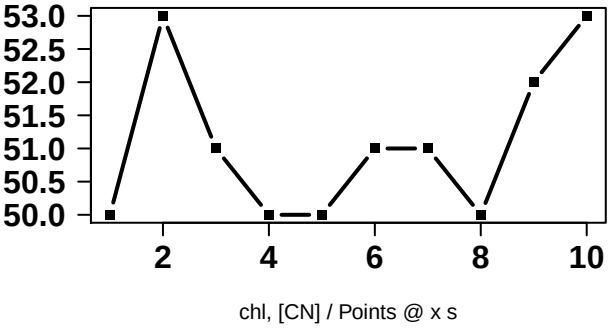

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

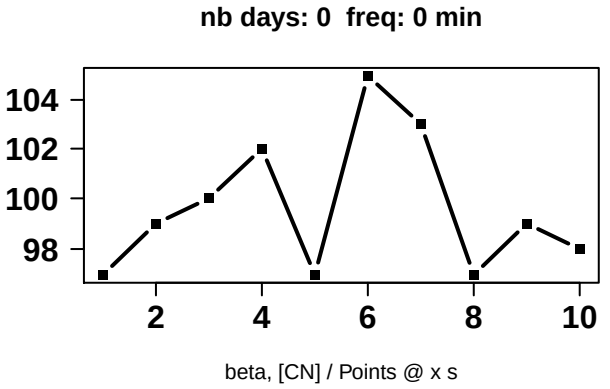

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

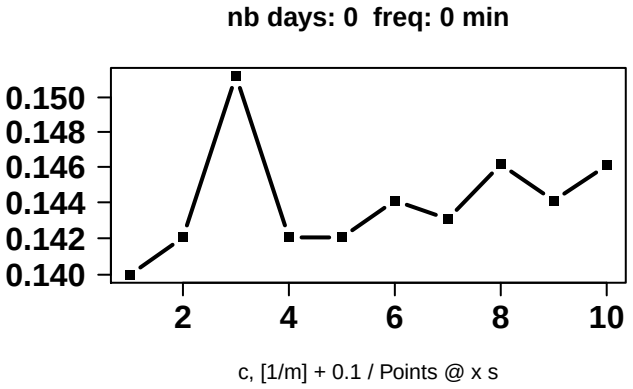

2012−11−22 22:31:40 2012−11−22 22:31:48
410
400
390
380
0
5
10
15
20
25
30
Pressure in

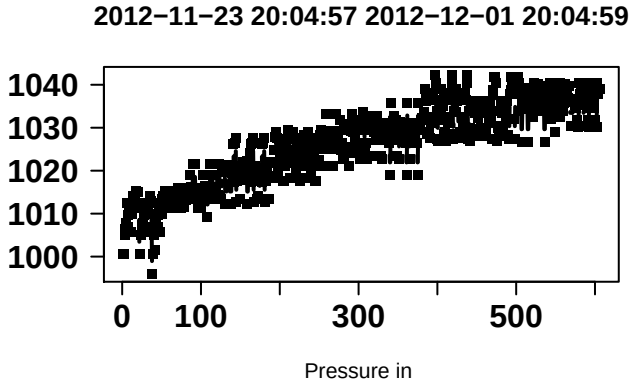

black 0.084 red 0.26
Seawater potential density anomaly
Seawater density − 1000
26.88
26.86
26.84
26.82
2
4
6
8
10
28.65
28.55
28.45

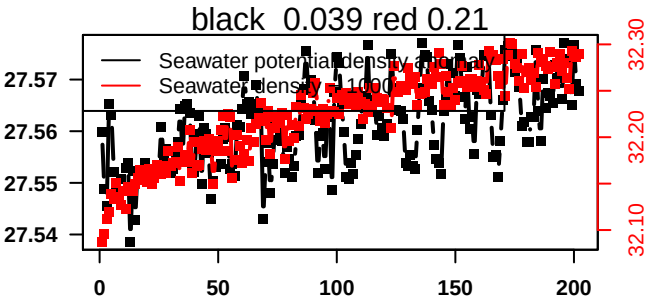

lovbio010b_006_03_06.txt
64
63
62
61
60
59
58
57
2
4
6
8
10
CDOM, [CN] / Points @ x s

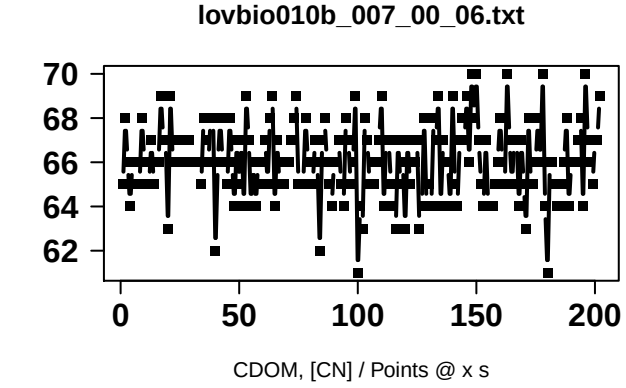

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

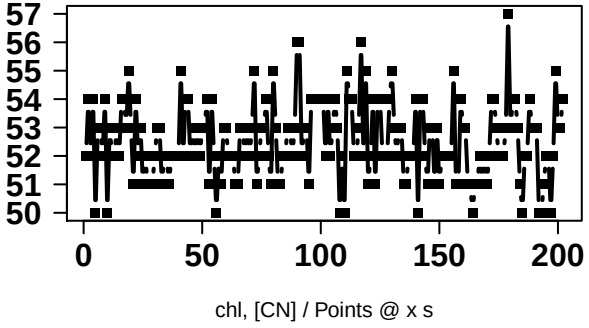

nb days: 0 freq: 0 min
104
102
100
98
2
4
6
8
10
beta, [CN] / Points @ x s

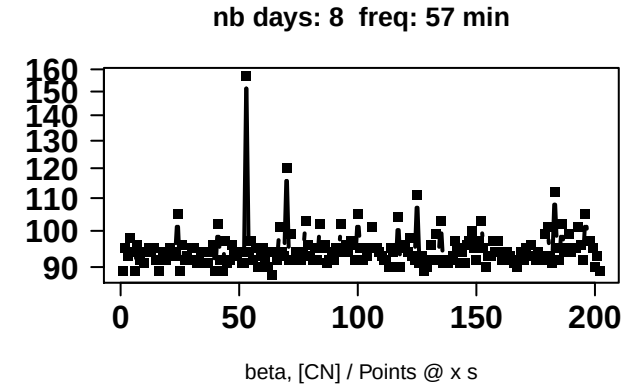

nb days: 0 freq: 0 min
0.150
0.148
0.146
0.144
0.142
0.140
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

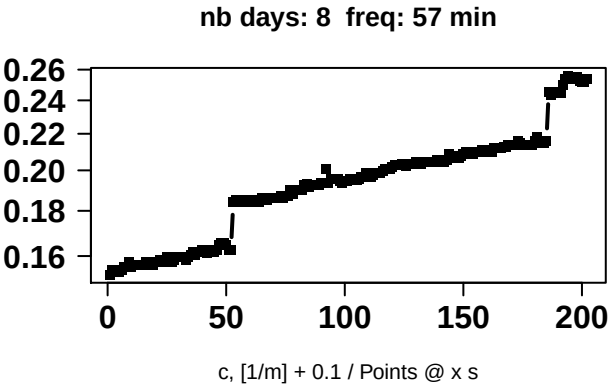

2012−11−23 20:04:57 2012−12−01 20:04:59
1040
1030
1020
1010
1000
0
100
300
500
Pressure in

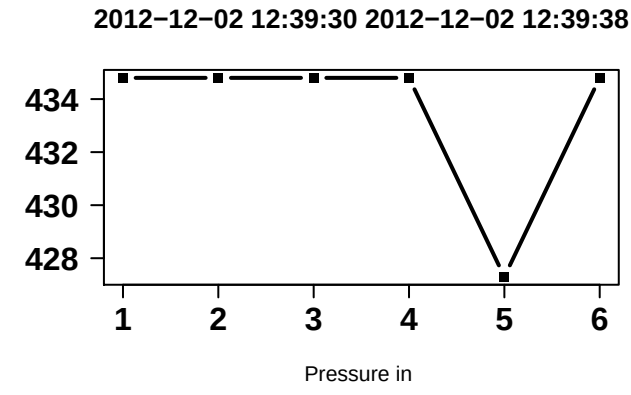

black 0.039 red 0.21
Seawater potential density anomaly
Seawater density − 1000
27.57
27.56
27.55
27.54
32.30
32.20
32.10
0
50
100
150
200

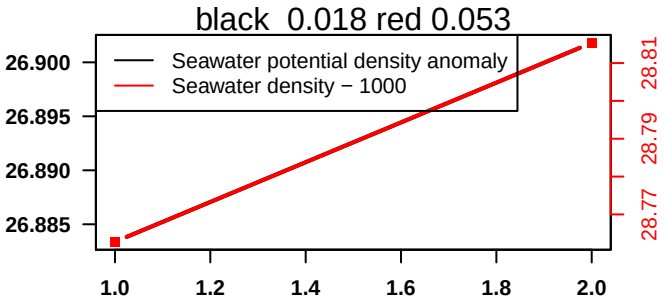

lovbio010b_007_00_06.txt
70
68
66
64
62
0
50
100
150
200
CDOM, [CN] / Points @ x s

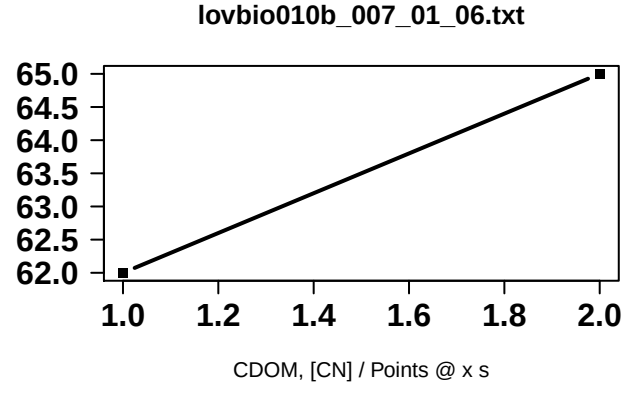

57
56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

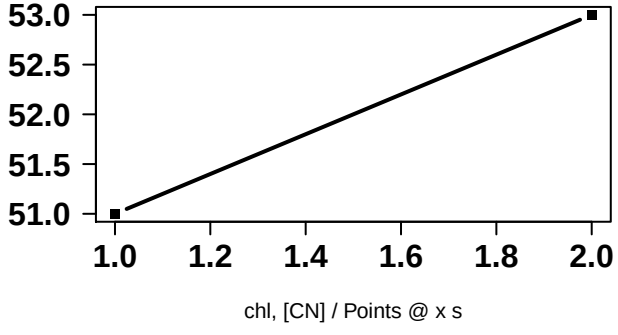

nb days: 8 freq: 57 min
160
150
140
130
120
110
100
90
0
50
100
150
200
beta, [CN] / Points @ x s

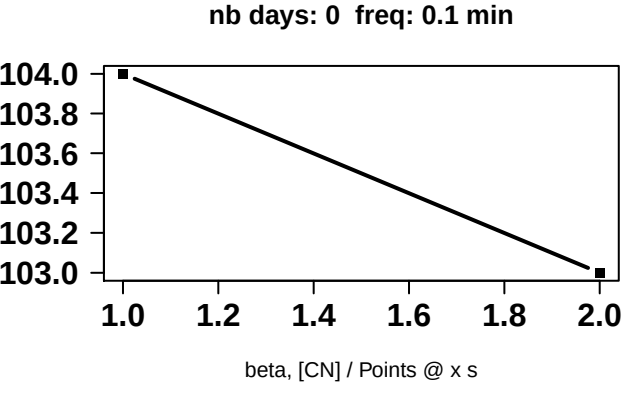

nb days: 8 freq: 57 min
0.26
0.24
0.22
0.20
0.18
0.16
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

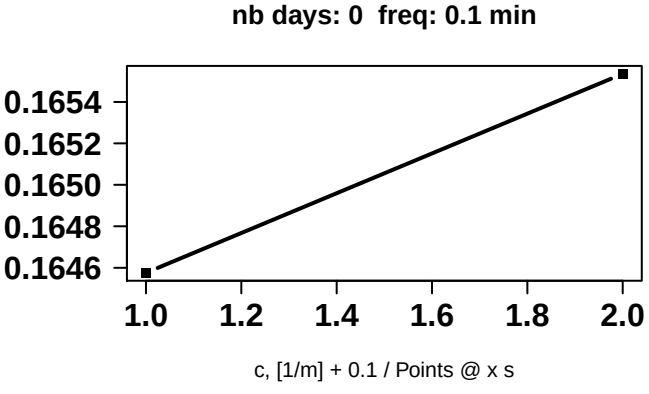

2012−12−02 12:39:30 2012−12−02 12:39:38
434
432
430
428
1
2
3
4
5
6
Pressure in

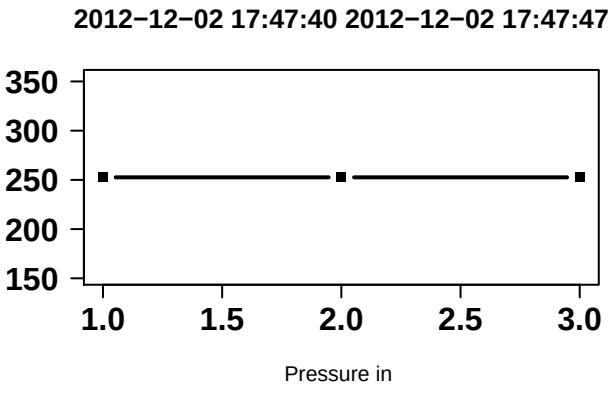

black 0.018 red 0.053
Seawater potential density anomaly
Seawater density − 1000
26.900
26.895
26.890
26.885
28.81
28.79
28.77
1.0
1.2
1.4
1.6
1.8
2.0

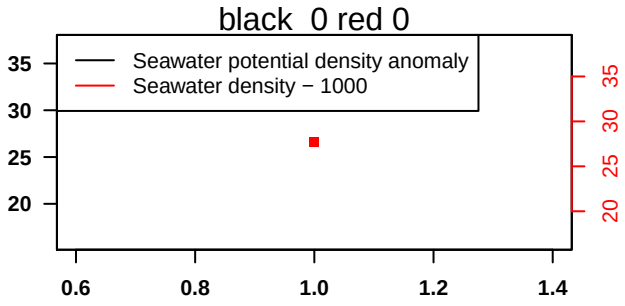

lovbio010b_007_01_06.txt
65.0
64.5
64.0
63.5
63.0
62.5
62.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

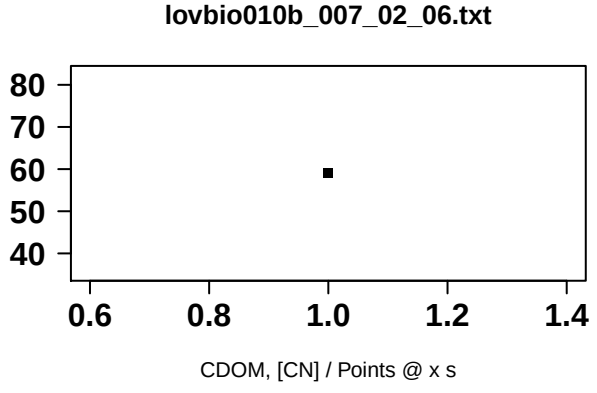

53.0
52.5
52.0
51.5
51.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

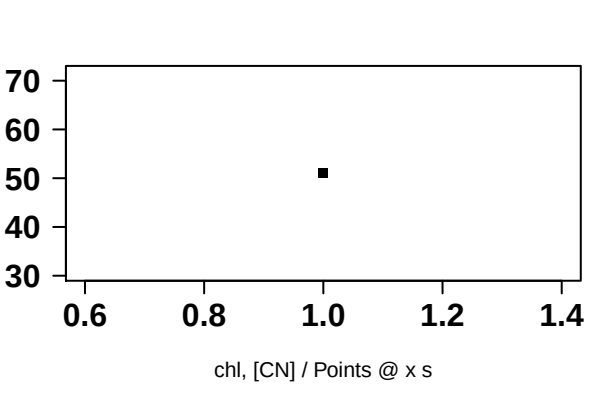

nb days: 0 freq: 0.1 min
104.0
103.8
103.6
103.4
103.2
103.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

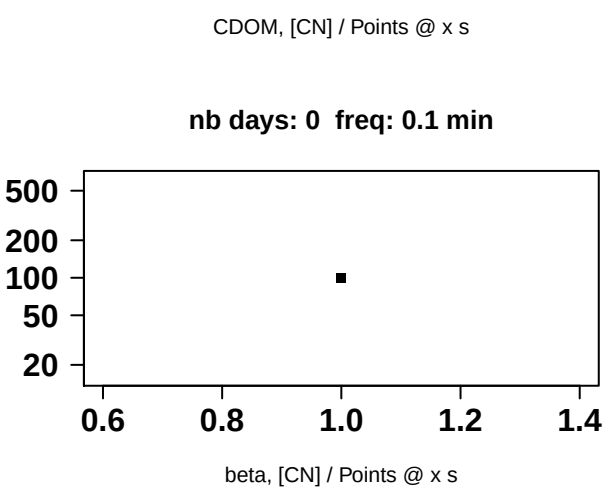

nb days: 0 freq: 0.1 min
0.1654
0.1652
0.1650
0.1648
0.1646
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

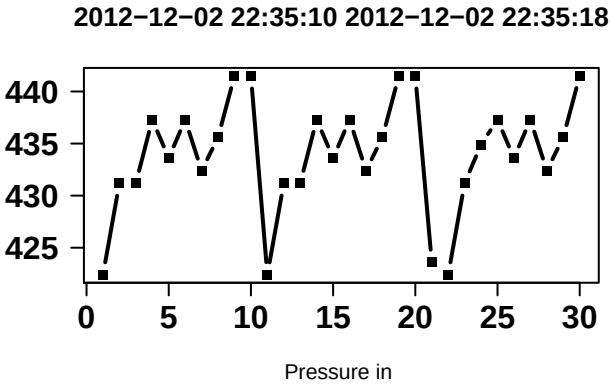

2012−12−02 17:47:40 2012−12−02 17:47:47
350
300
250
200
150
1.0
1.5
2.0
2.5
3.0
Pressure in

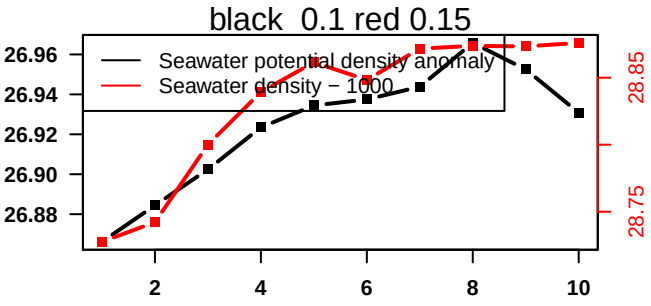

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4

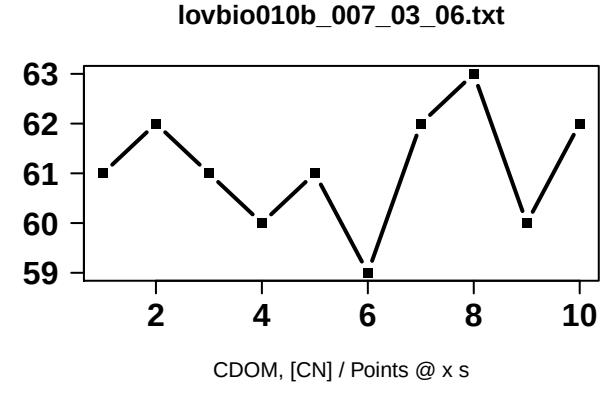

lovbio010b_007_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

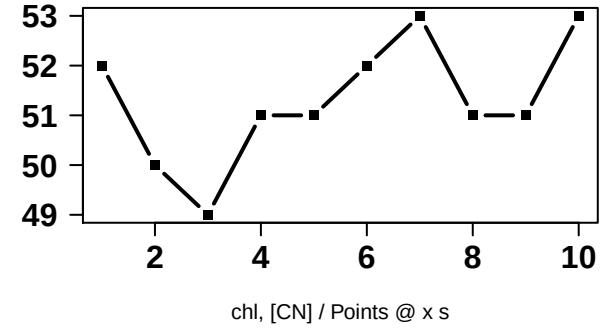

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

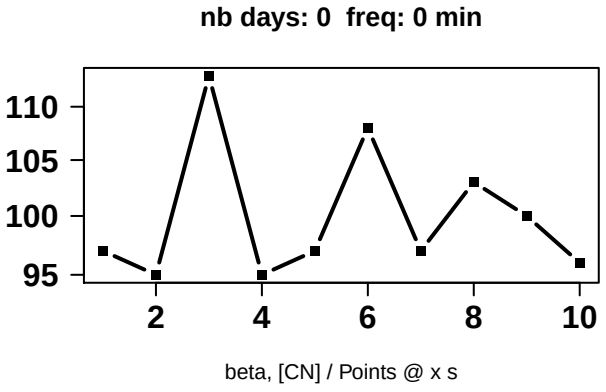

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

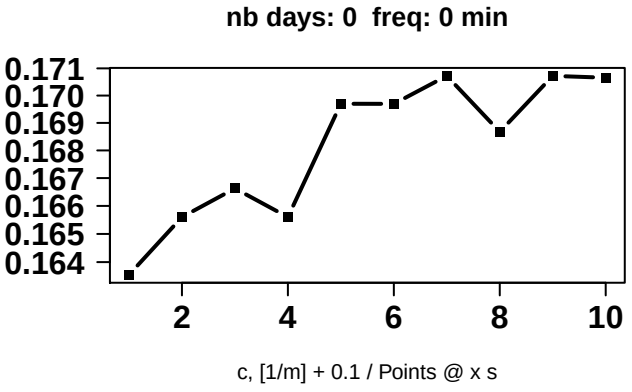

2012−12−02 22:35:10 2012−12−02 22:35:18
440
435
430
425
0
5
10
15
20
25
30
Pressure in

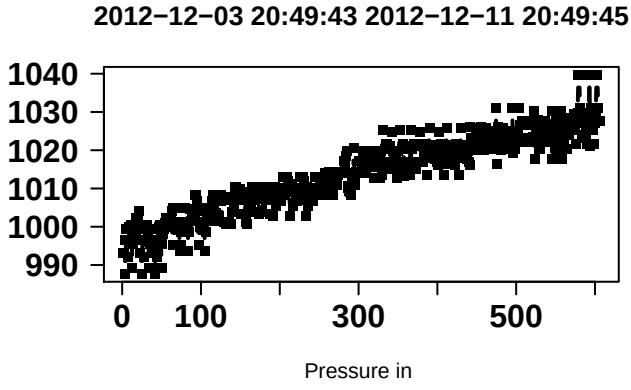

black 0.1 red 0.15
Seawater potential density anomaly
Seawater density − 1000
26.96
26.94
26.92
26.90
26.88
28.85
28.75
2
4
6
8
10

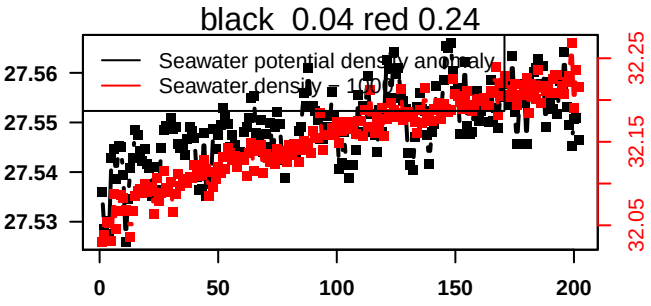

lovbio010b_007_03_06.txt
63
62
61
60
59
2
4
6
8
10
CDOM, [CN] / Points @ x s

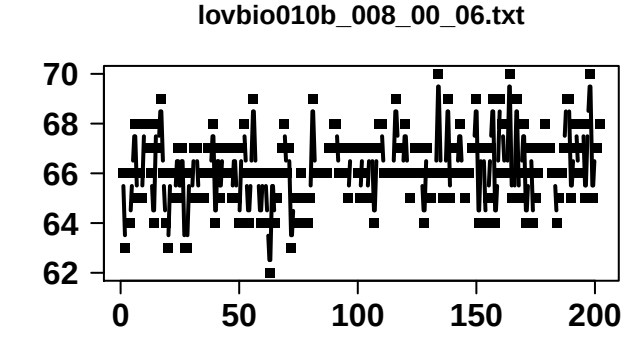

53
52
51
50
49
2
4
6
8
10
chl, [CN] / Points @ x s

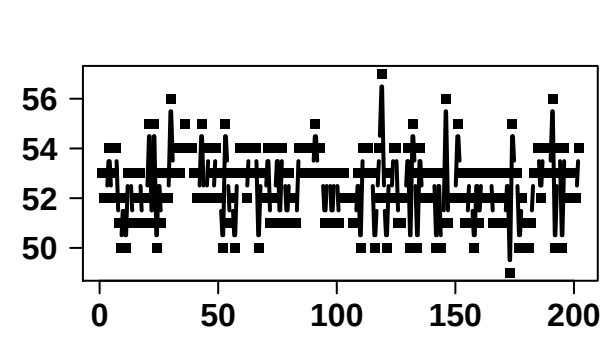

nb days: 0 freq: 0 min
110
105
100
95
2
4
6
8
10
beta, [CN] / Points @ x s

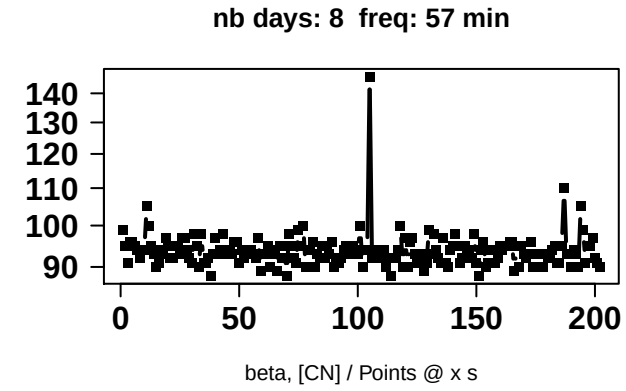

nb days: 0 freq: 0 min
0.171
0.170
0.169
0.168
0.167
0.166
0.165
0.164
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

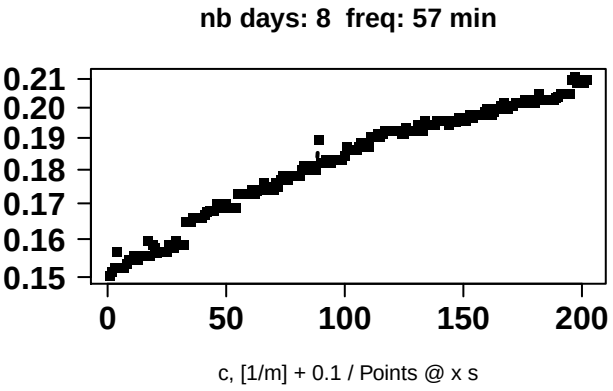

2012−12−03 20:49:43 2012−12−11 20:49:45
1040
1030
1020
1010
1000
990
0
100
300
500
Pressure in

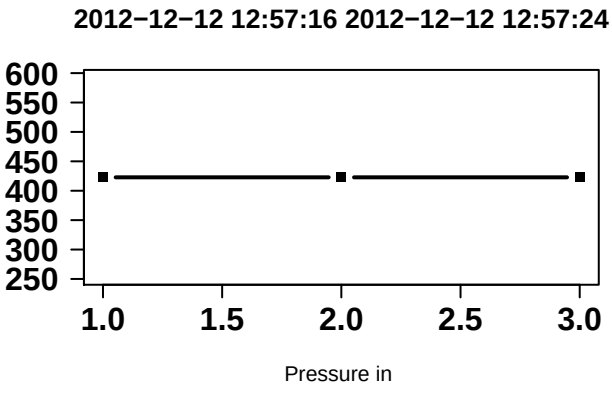

black 0.04 red 0.24
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
32.25
32.15
32.05
0
50
100
150
200

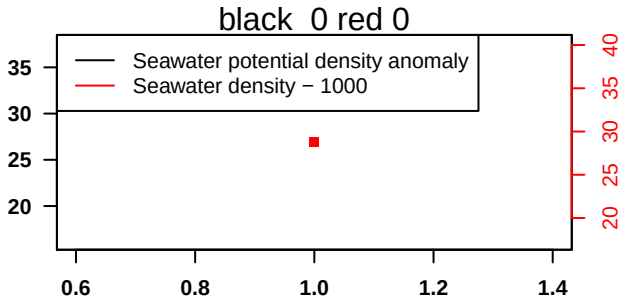

lovbio010b_008_00_06.txt
70
68
66
64
62
0
50
100
150
200
CDOM, [CN] / Points @ x s

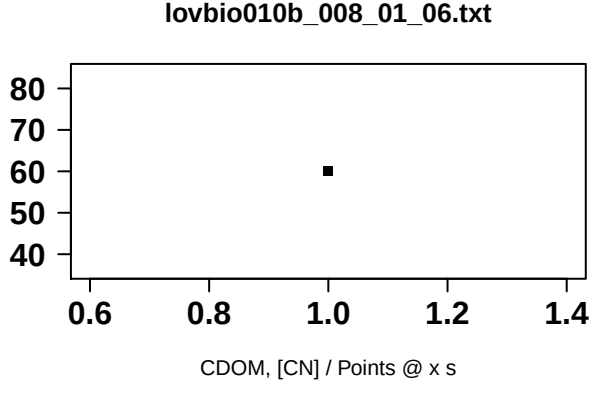

56
54
52
50
0
50
100
150
200
chl, [CN] / Points @ x s

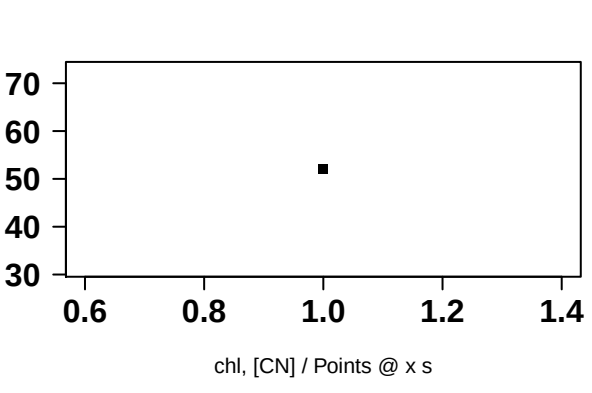

nb days: 8 freq: 57 min
140
130
120
110
100
90
0
50
100
150
200
beta, [CN] / Points @ x s

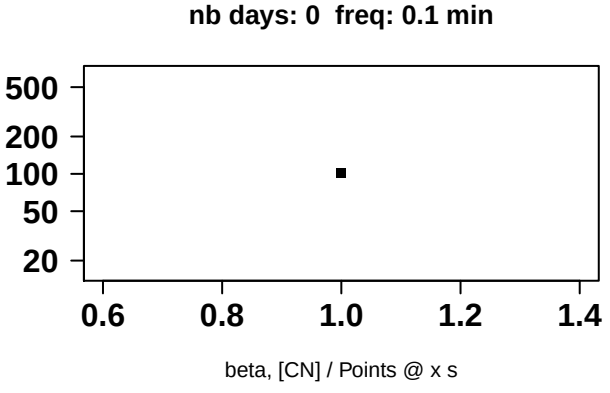

nb days: 8 freq: 57 min
0.21
0.20
0.19
0.18
0.17
0.16
0.15
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

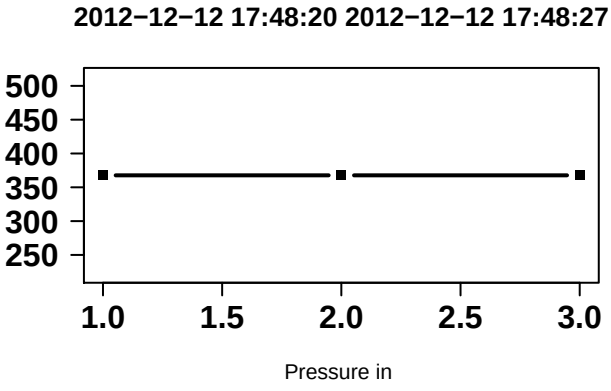

2012−12−12 12:57:16 2012−12−12 12:57:24
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

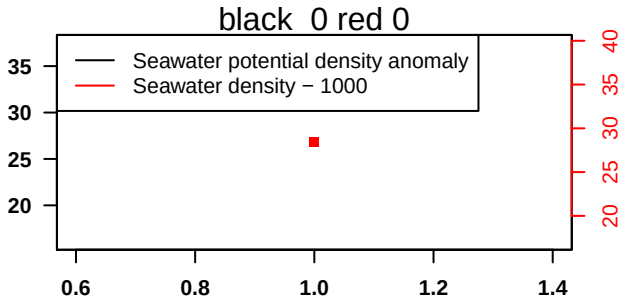

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

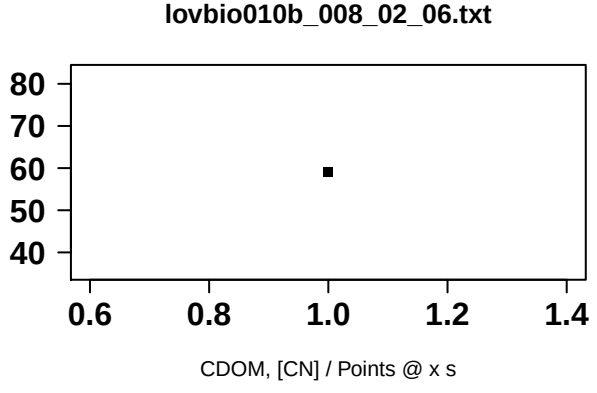

lovbio010b_008_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

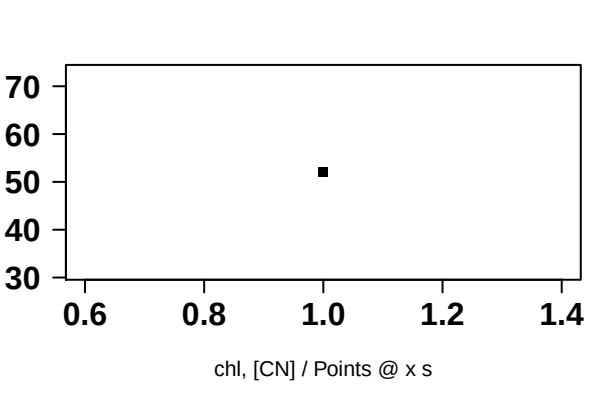

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

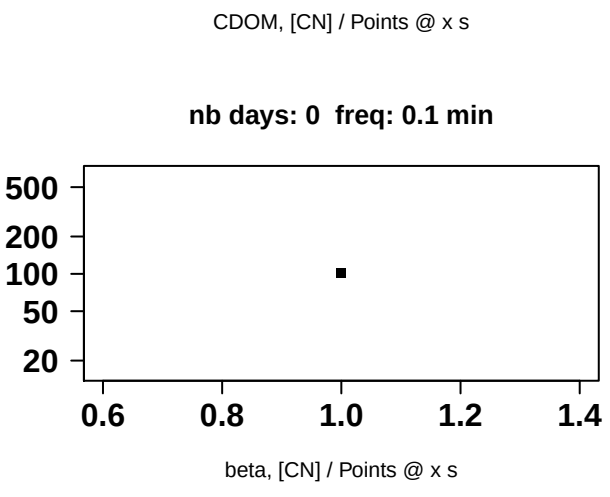

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

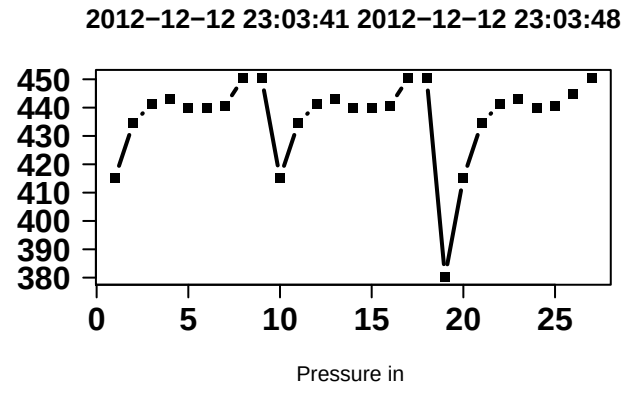

2012−12−12 17:48:20 2012−12−12 17:48:27
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

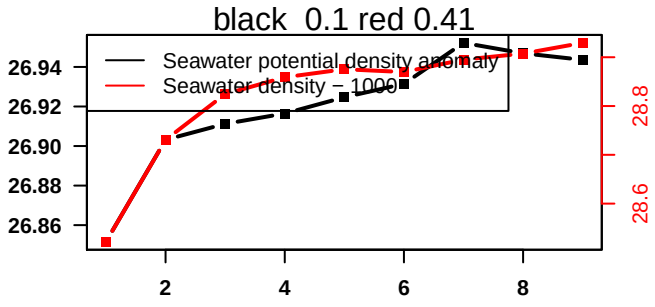

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

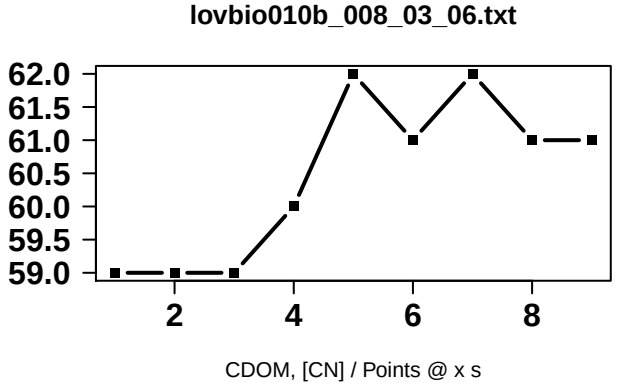

lovbio010b_008_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

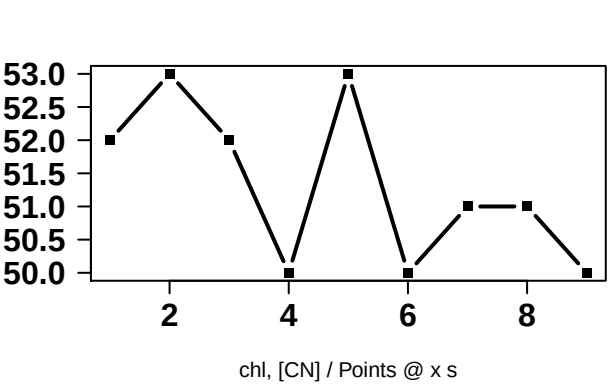

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

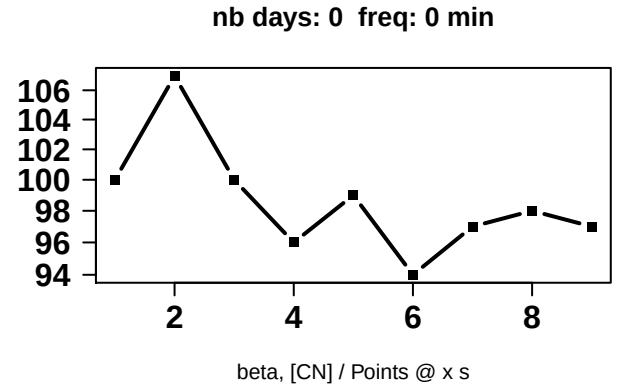

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

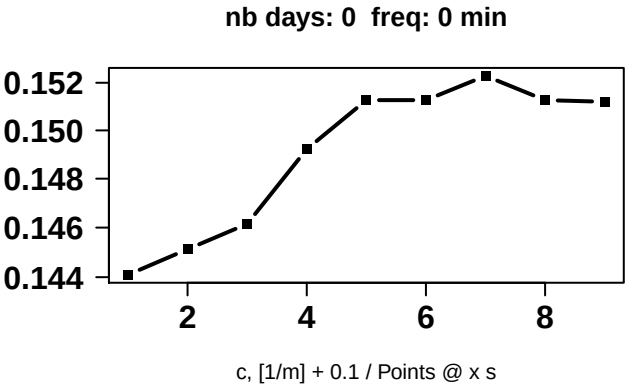

2012−12−12 23:03:41 2012−12−12 23:03:48
450
440
430
420
410
400
390
380
0
5
10
15
20
25
Pressure in

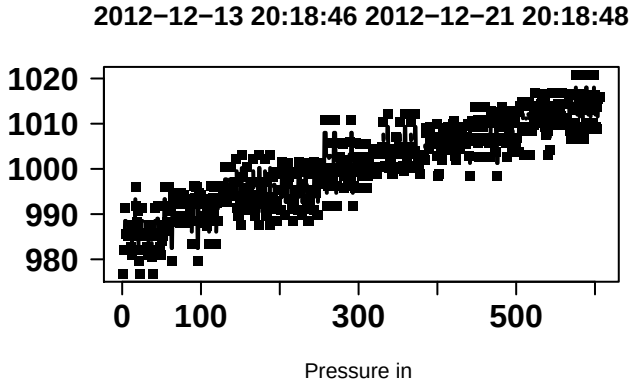

black 0.1 red 0.41
Seawater potential density anomaly
Seawater density − 1000
26.94
26.92
26.90
26.88
26.86
28.8
28.6
2
4
6
8

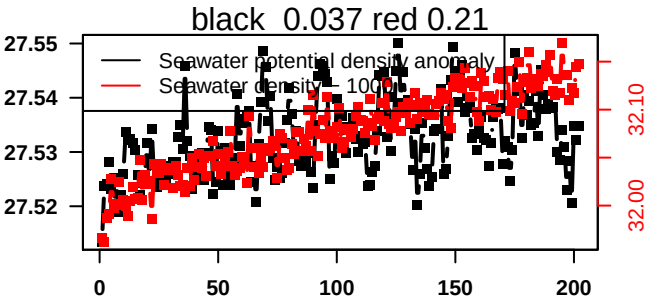

lovbio010b_008_03_06.txt
62.0
61.5
61.0
60.5
60.0
59.5
59.0
2
4
6
8
CDOM, [CN] / Points @ x s

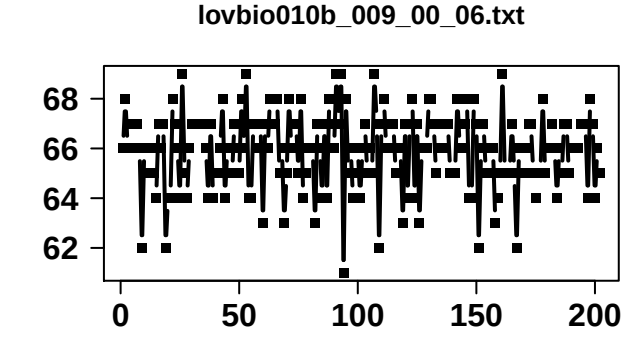

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

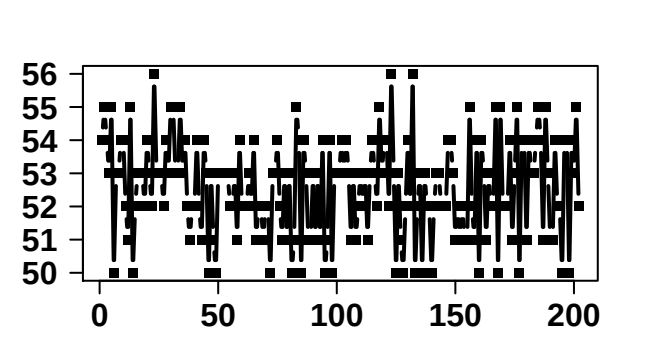

nb days: 0 freq: 0 min
106
104
102
100
98
96
94
2
4
6
8
beta, [CN] / Points @ x s

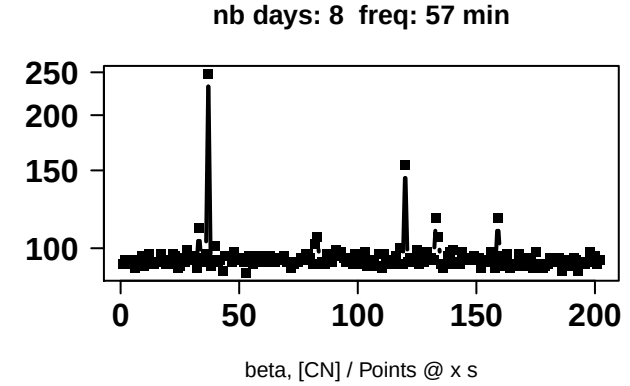

nb days: 0 freq: 0 min
0.152
0.150
0.148
0.146
0.144
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

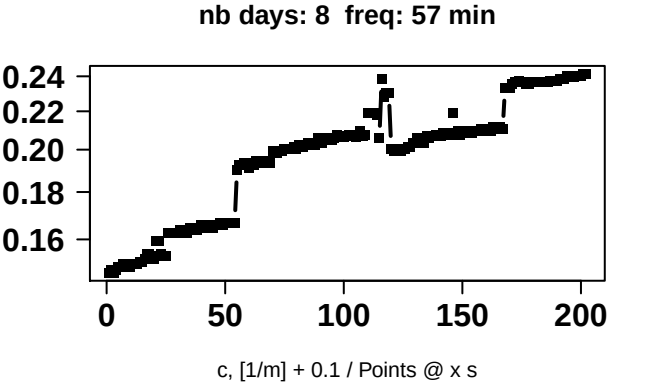

2012−12−13 20:18:46 2012−12−21 20:18:48
1020
1010
1000
990
980
0
100
300
500
Pressure in

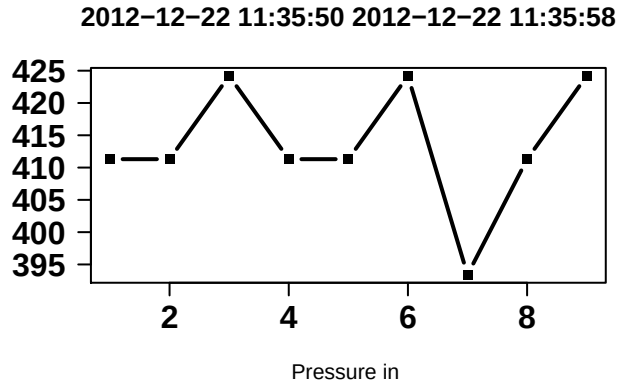

black 0.037 red 0.21
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
32.10
32.00
0
50
100
150
200

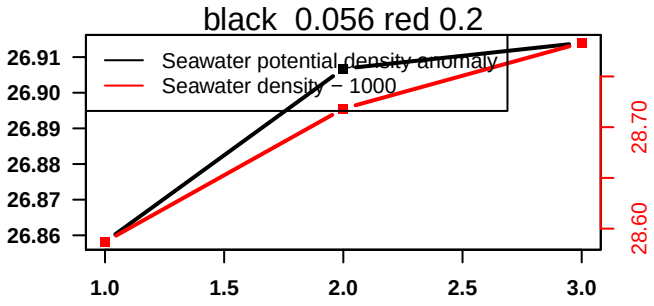

lovbio010b_009_00_06.txt
68
66
64
62
0
50
100
150
200
CDOM, [CN] / Points @ x s

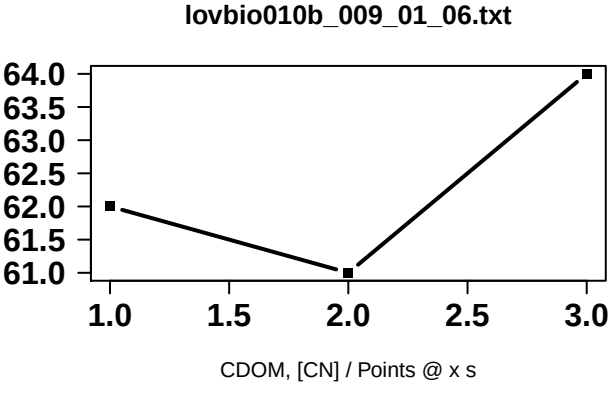

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

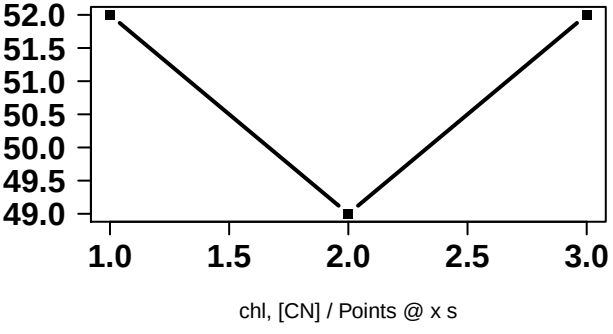

nb days: 8 freq: 57 min
250
200
150
100
0
50
100
150
200
beta, [CN] / Points @ x s

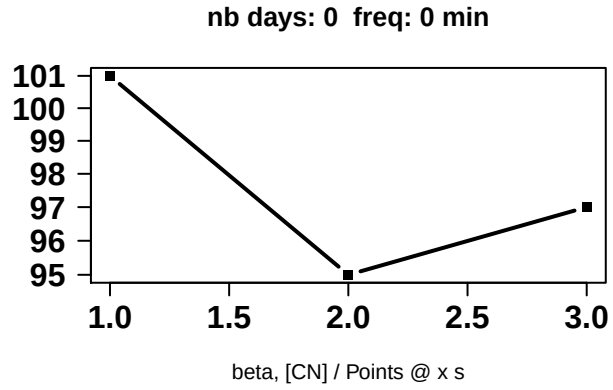

nb days: 8 freq: 57 min
0.24
0.22
0.20
0.18
0.16
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

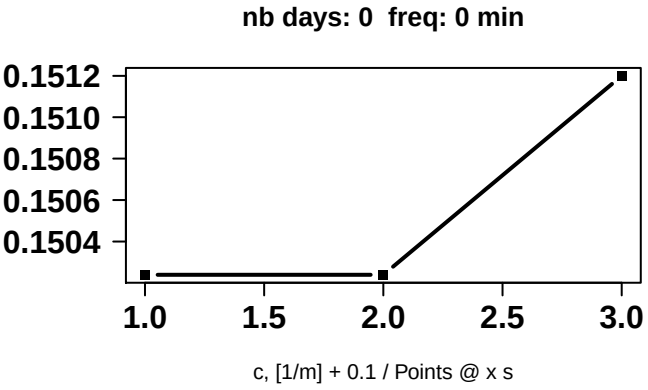

2012−12−22 11:35:50 2012−12−22 11:35:58
425
420
415
410
405
400
395
2
4
6
8
Pressure in

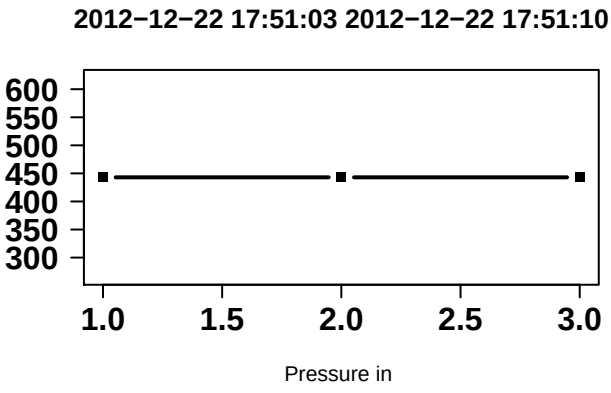

black 0.056 red 0.2
Seawater potential density anomaly
Seawater density − 1000
26.91
26.90
26.89
26.88
26.87
26.86
28.70
28.60
1.0
1.5
2.0
2.5
3.0

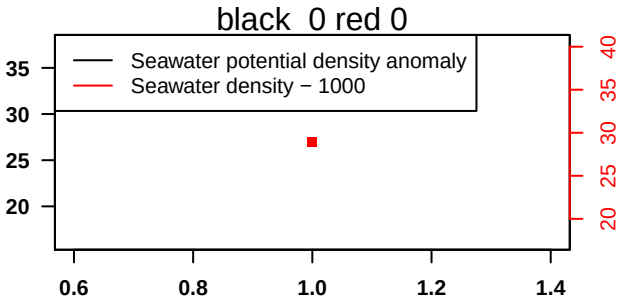

lovbio010b_009_01_06.txt
64.0
63.5
63.0
62.5
62.0
61.5
61.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

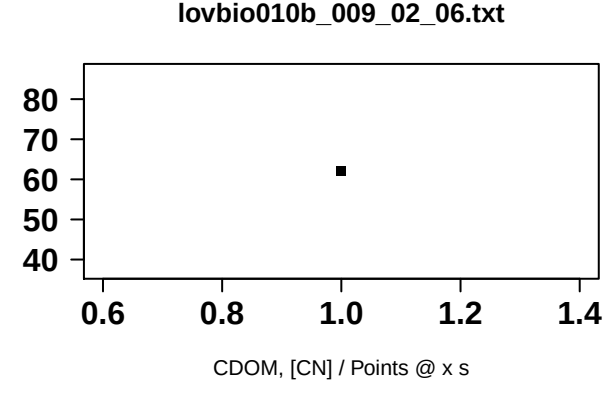

52.0
51.5
51.0
50.5
50.0
49.5
49.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

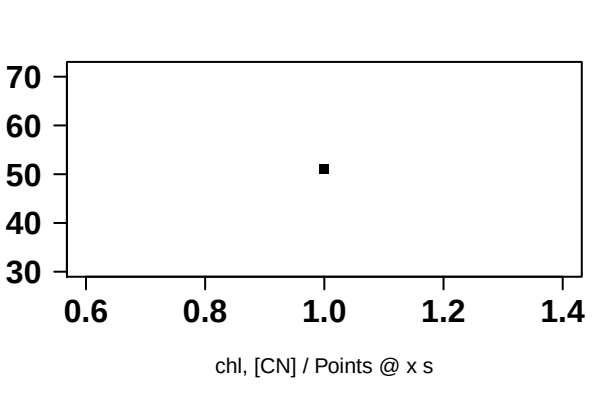

nb days: 0 freq: 0 min
101
100
99
98
97
96
95
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

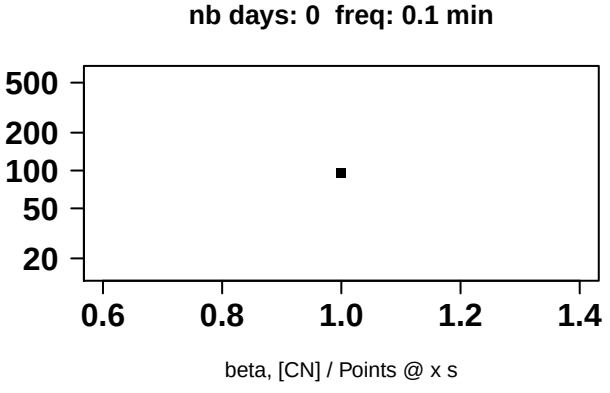

nb days: 0 freq: 0 min
0.1512
0.1510
0.1508
0.1506
0.1504
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

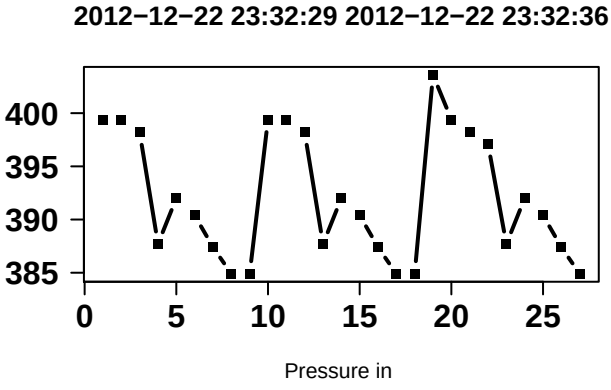

2012−12−22 17:51:03 2012−12−22 17:51:10
600
550
500
450
400
350
300
1.0
1.5
2.0
2.5
3.0
Pressure in

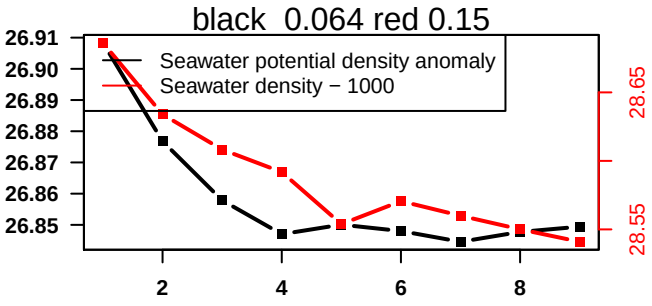

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

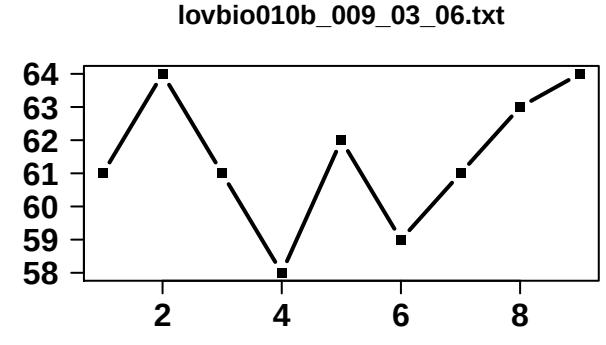

lovbio010b_009_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

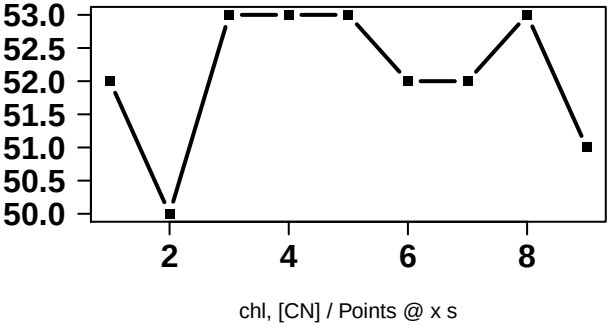

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

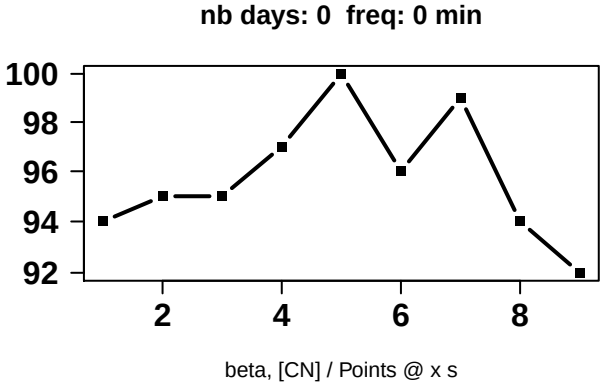

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

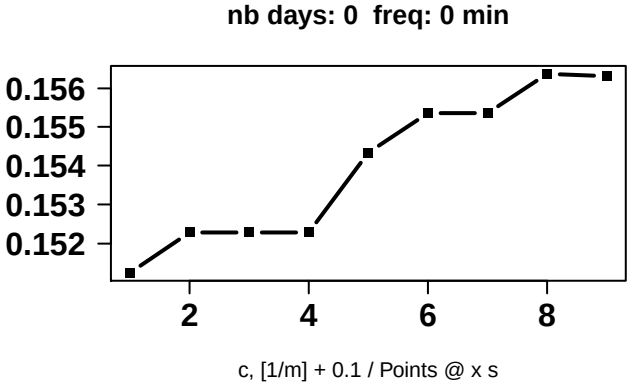

2012−12−22 23:32:29 2012−12−22 23:32:36
400
395
390
385
0
5
10
15
20
25
Pressure in

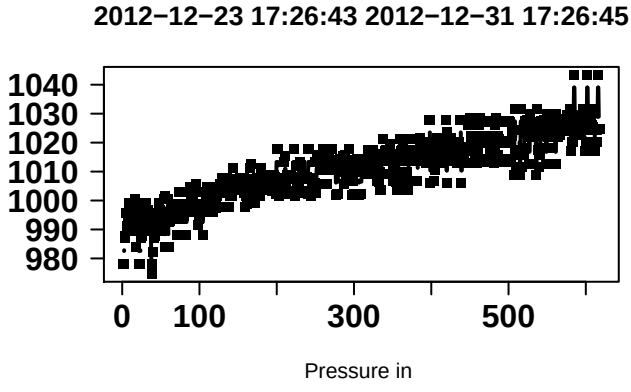

black 0.064 red 0.15
Seawater potential density anomaly
Seawater density − 1000
26.91
26.90
26.89
26.88
26.87
26.86
26.85
28.65
28.55
2
4
6
8

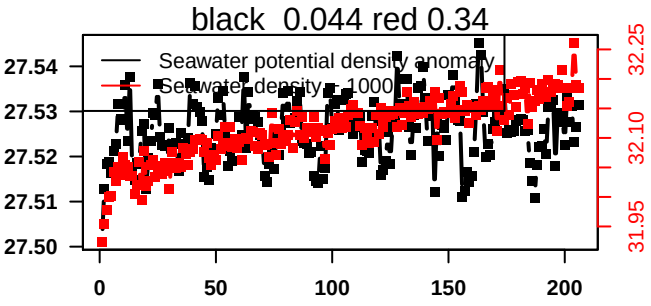

lovbio010b_009_03_06.txt
64
63
62
61
60
59
58
2
4
6
8
CDOM, [CN] / Points @ x s

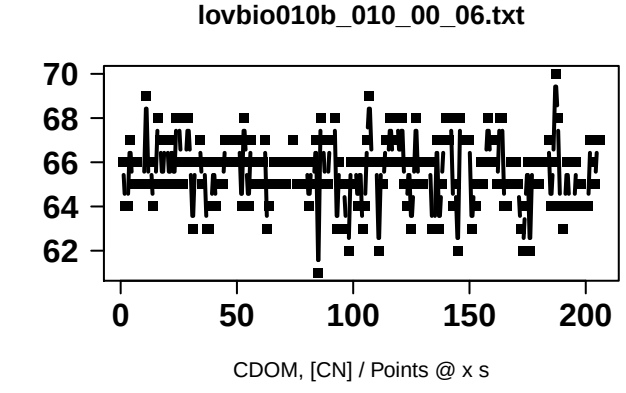

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

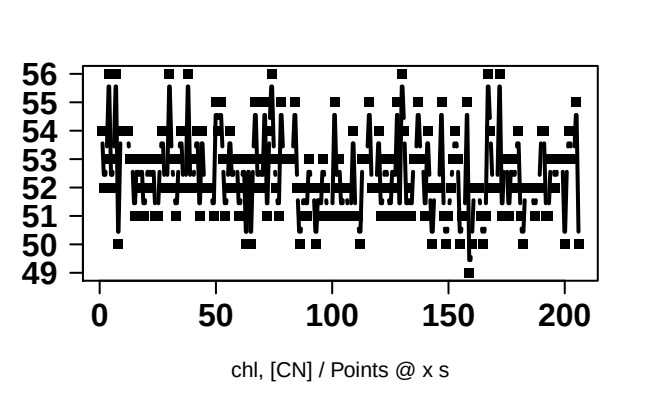

nb days: 0 freq: 0 min
100
98
96
94
92
2
4
6
8
beta, [CN] / Points @ x s

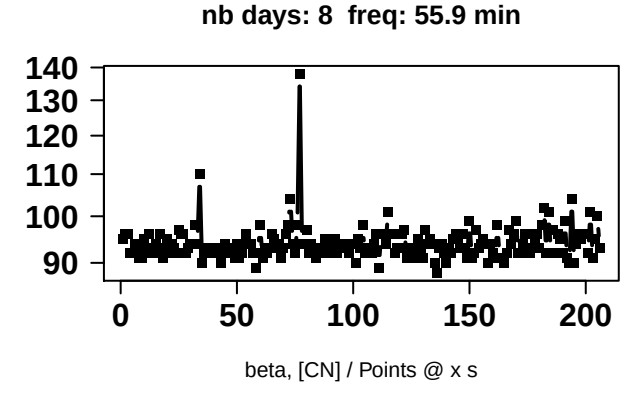

nb days: 0 freq: 0 min
0.156
0.155
0.154
0.153
0.152
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

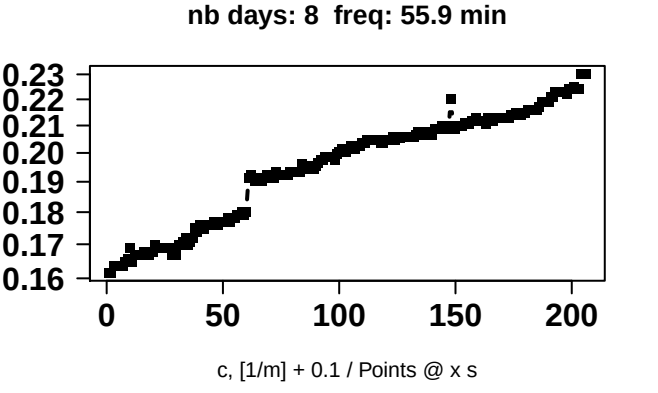

2012−12−23 17:26:43 2012−12−31 17:26:45
1040
1030
1020
1010
1000
990
980
0
100
300
500
Pressure in

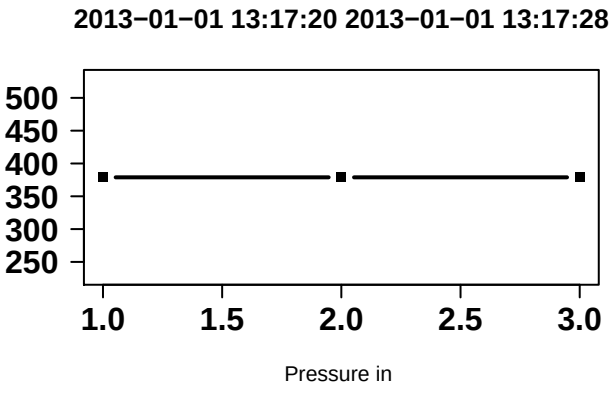

black 0.044 red 0.34
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.25
32.10
31.95
0
50
100
150
200

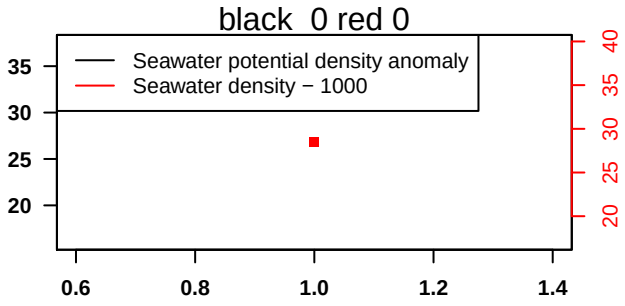

lovbio010b_010_00_06.txt
70
68
66
64
62
0
50
100
150
200
CDOM, [CN] / Points @ x s

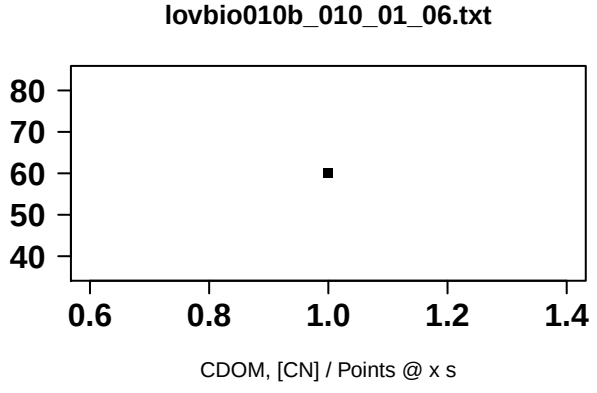

56
55
54
53
52
51
50
49
0
50
100
150
200
chl, [CN] / Points @ x s

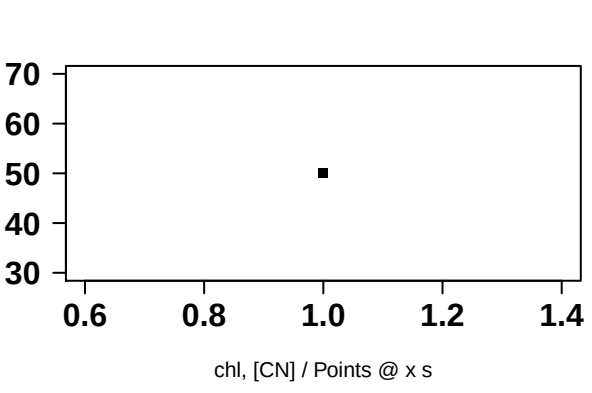

nb days: 8 freq: 55.9 min
140
130
120
110
100
90
0
50
100
150
200
beta, [CN] / Points @ x s

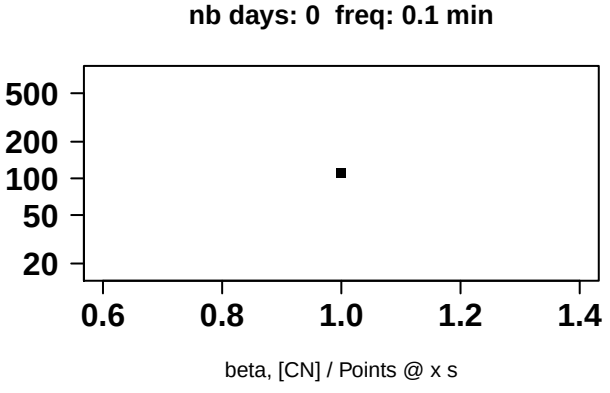

nb days: 8 freq: 55.9 min
0.23
0.22
0.21
0.20
0.19
0.18
0.17
0.16
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

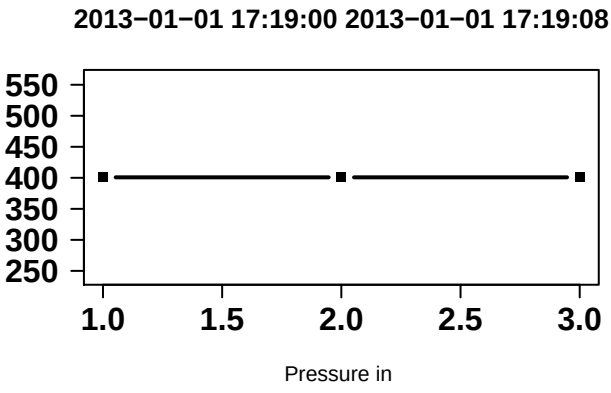

2013−01−01 13:17:20 2013−01−01 13:17:28
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

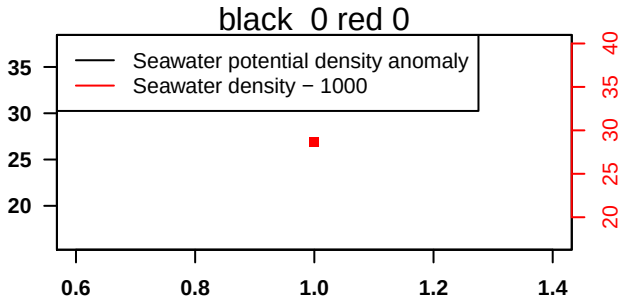

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

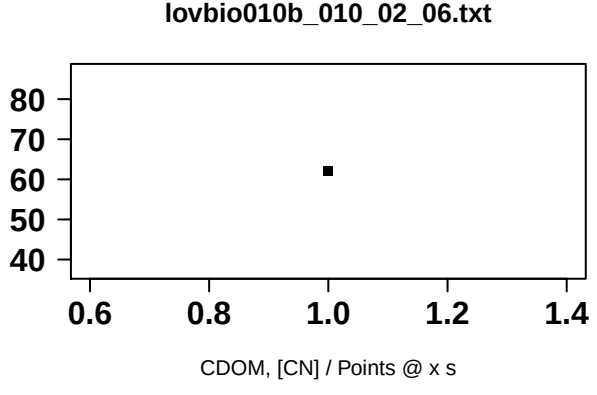

lovbio010b_010_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

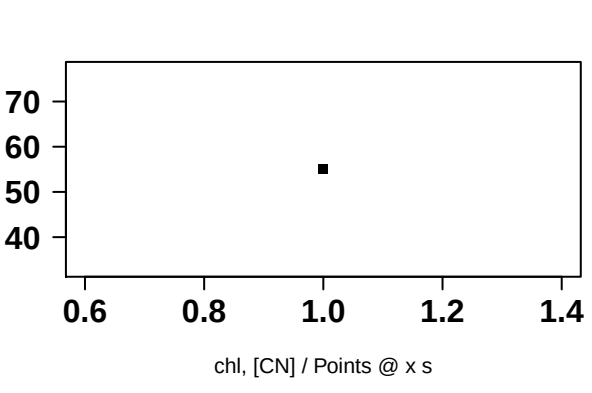

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

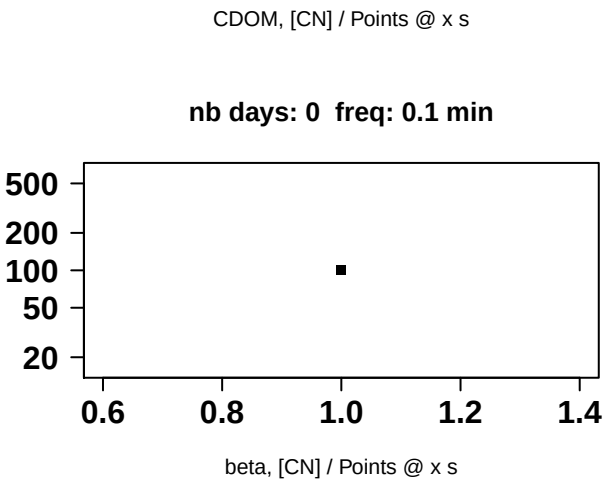

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

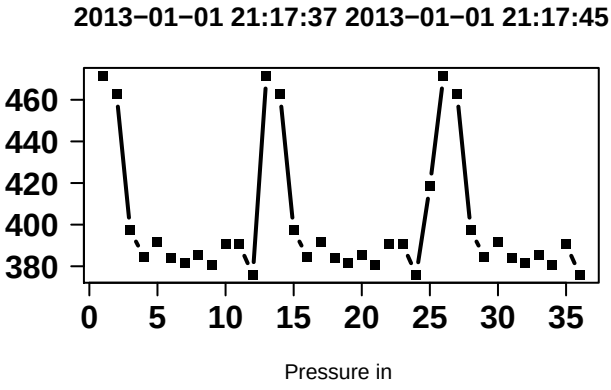

2013−01−01 17:19:00 2013−01−01 17:19:08
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

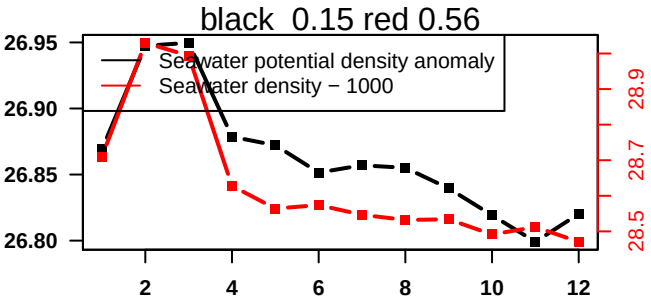

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

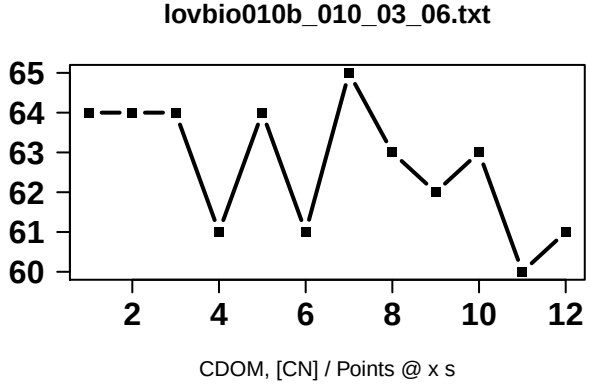

lovbio010b_010_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

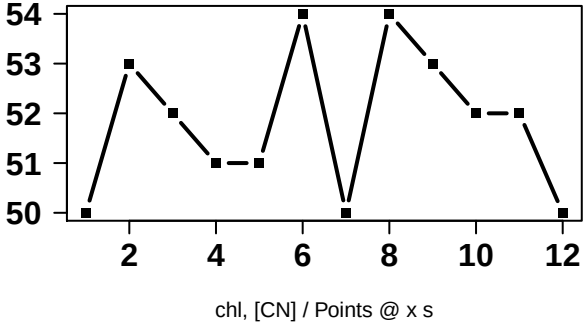

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

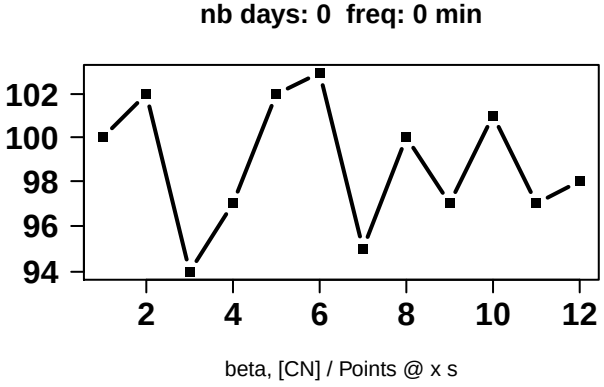

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

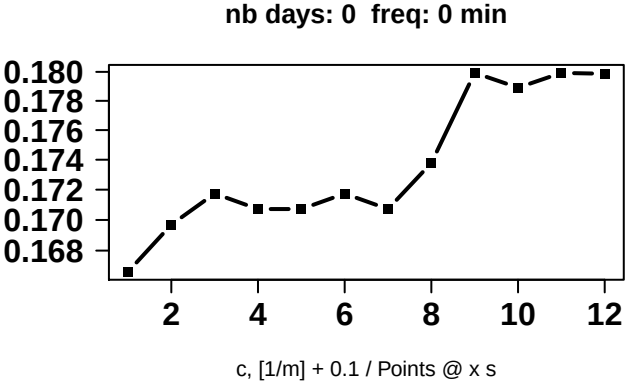

2013−01−01 21:17:37 2013−01−01 21:17:45
460
440
420
400
380
0
5
10
15
20
25
30
35
Pressure in

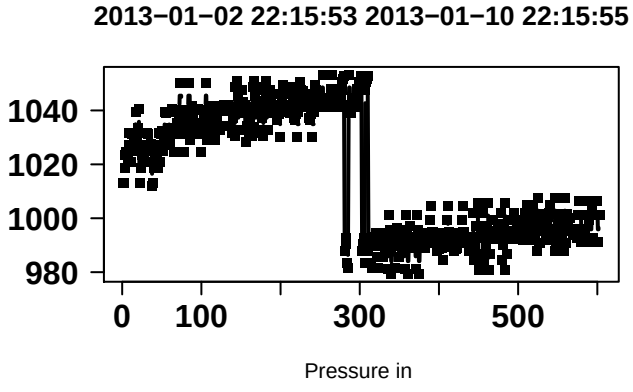

black 0.15 red 0.56
Seawater potential density anomaly
Seawater density − 1000
26.95
26.90
26.85
26.80
28.9
28.7
28.5
2
4
6
8
10
12

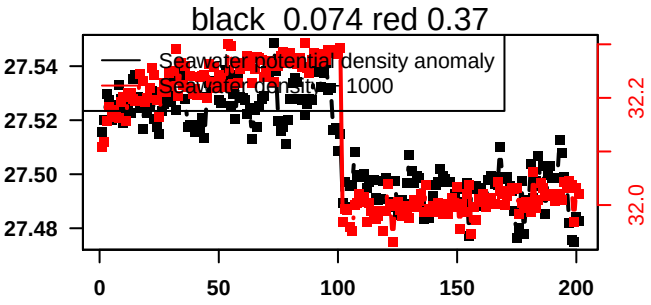

lovbio010b_010_03_06.txt
65
64
63
62
61
60
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

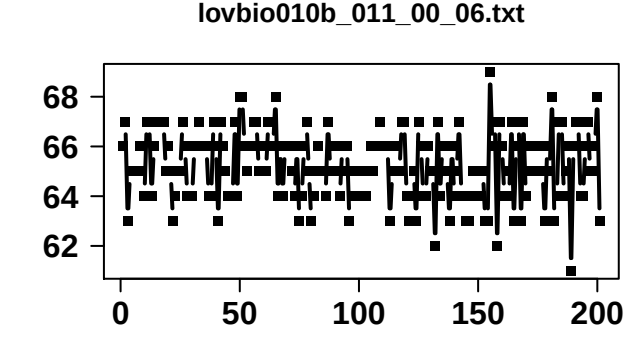

54
53
52
51
50
2
4
6
8
10
12
chl, [CN] / Points @ x s

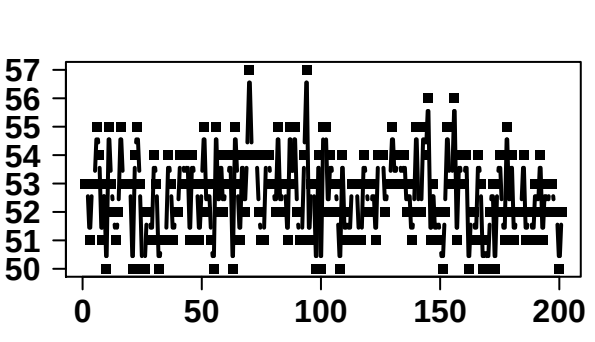

nb days: 0 freq: 0 min
102
100
98
96
94
2
4
6
8
10
12
beta, [CN] / Points @ x s

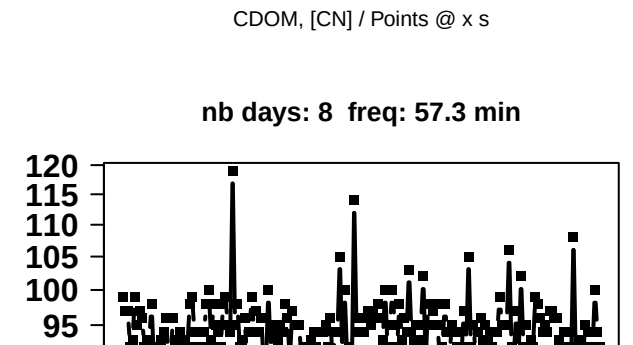

nb days: 0 freq: 0 min
0.180
0.178
0.176
0.174
0.172
0.170
0.168
2
4
6
8
10
12
c, [1/m] + 0.1 / Points @ x s

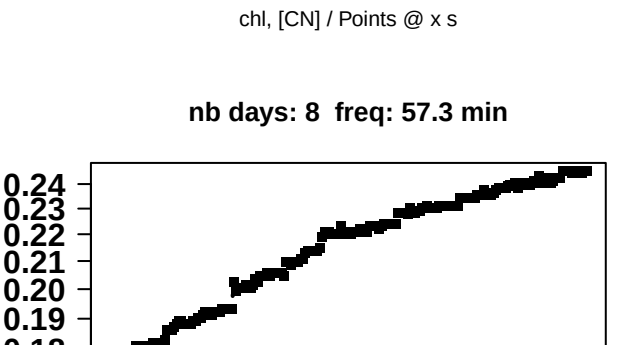

2013−01−02 22:15:53 2013−01−10 22:15:55
1040
1020
1000
980
0
100
300
500
Pressure in

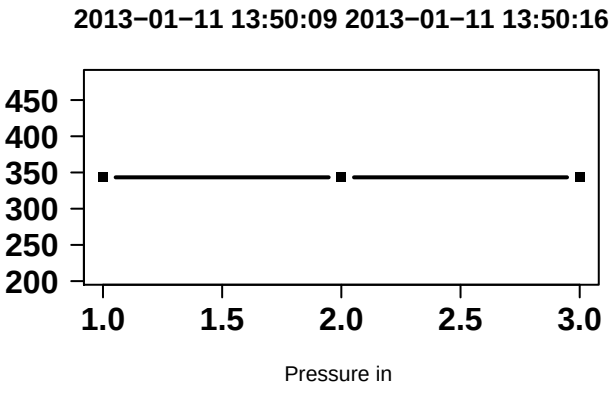

black 0.074 red 0.37
Seawater potential density anomaly
Seawater density − 1000
27.54
27.52
27.50
27.48
32.2
32.0
0
50
100
150
200

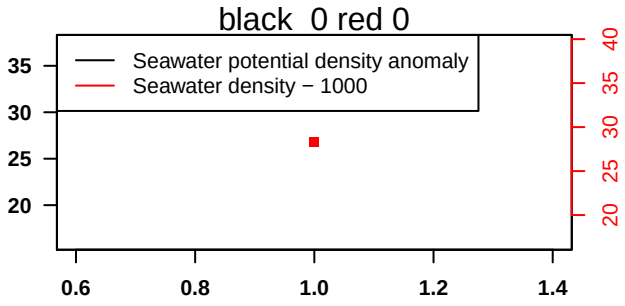

lovbio010b_011_00_06.txt
68
66
64
62
0
50
100
150
200
CDOM, [CN] / Points @ x s

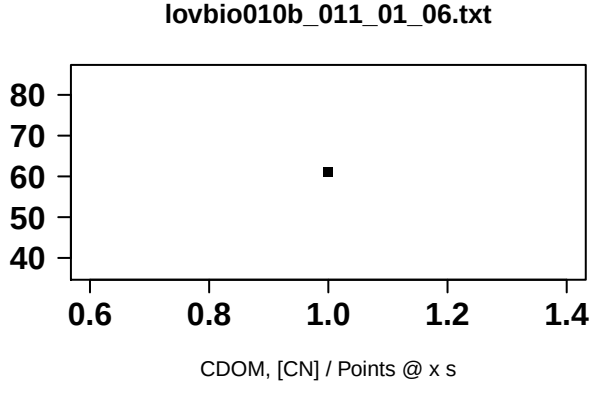

57
56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

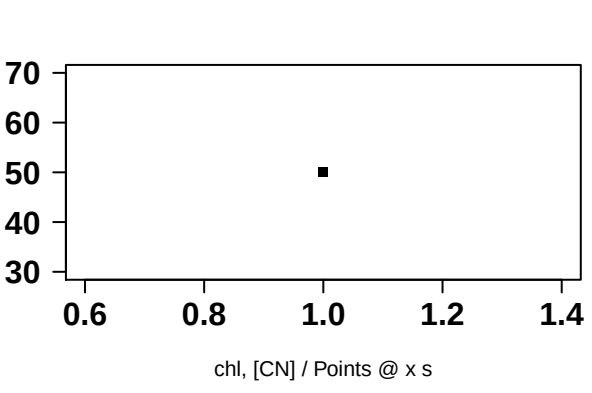

nb days: 8 freq: 57.3 min
120
115
110
105
100
95
90
0
50
100
150
200
beta, [CN] / Points @ x s

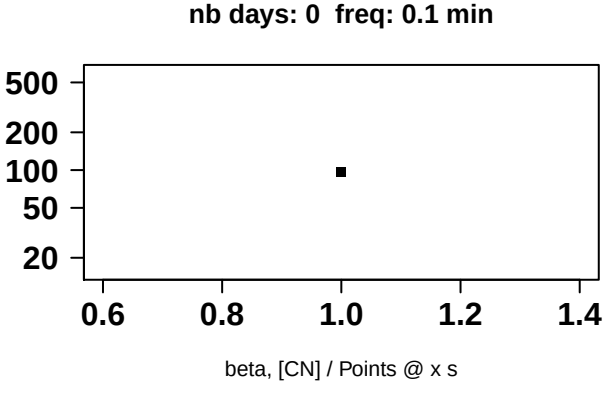

nb days: 8 freq: 57.3 min
0.24
0.23
0.22
0.21
0.20
0.19
0.18
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

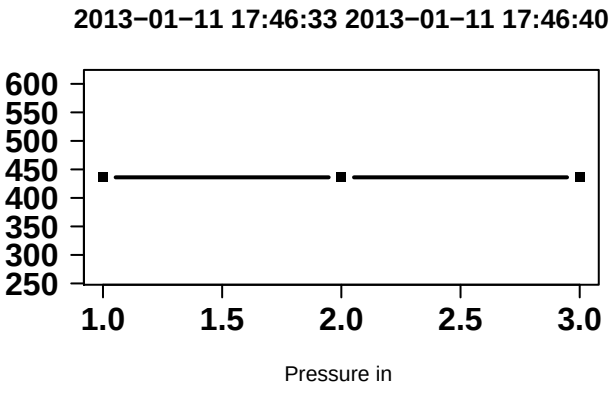

2013−01−11 13:50:09 2013−01−11 13:50:16
450
400
350
300
250
200
1.0
1.5
2.0
2.5
3.0
Pressure in

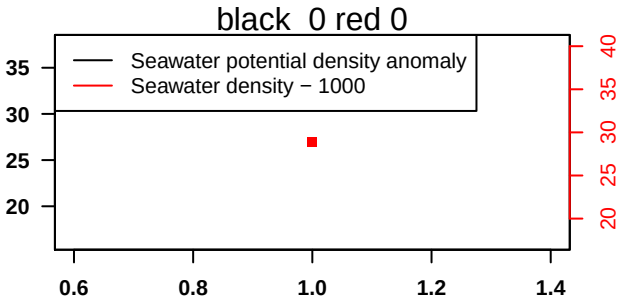

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

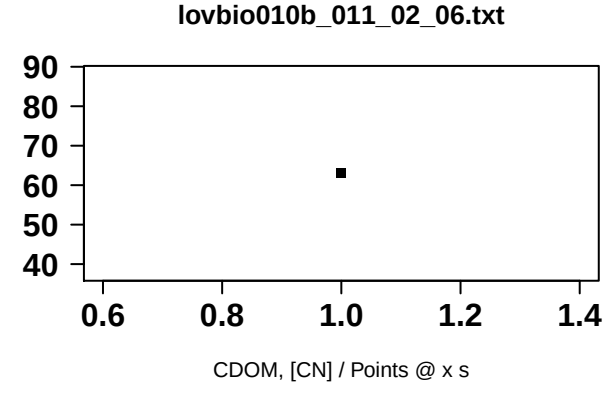

lovbio010b_011_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

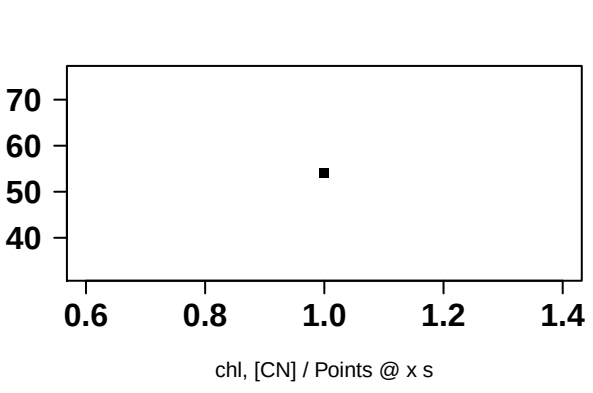

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

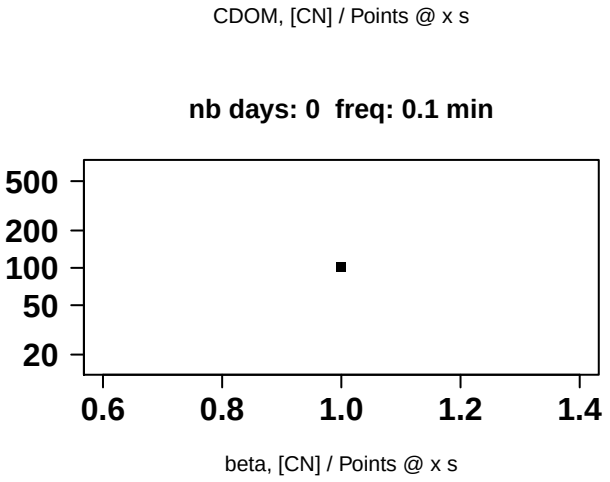

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

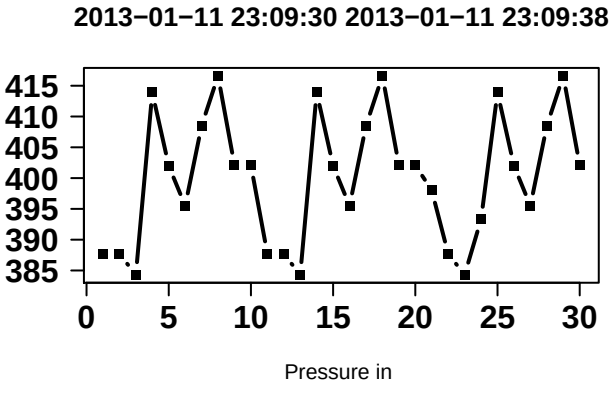

2013−01−11 17:46:33 2013−01−11 17:46:40
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

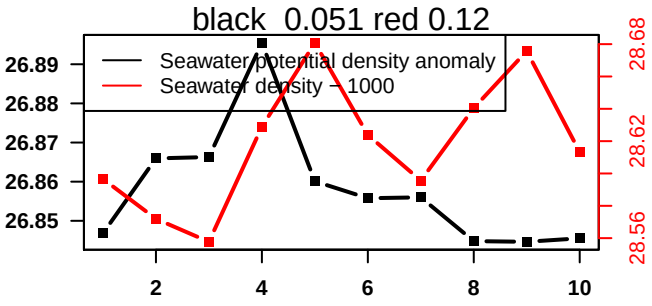

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

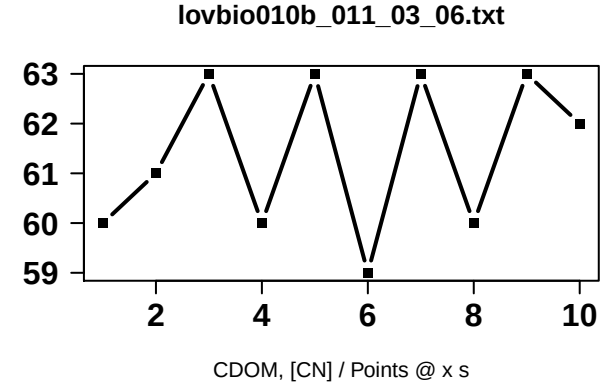

lovbio010b_011_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

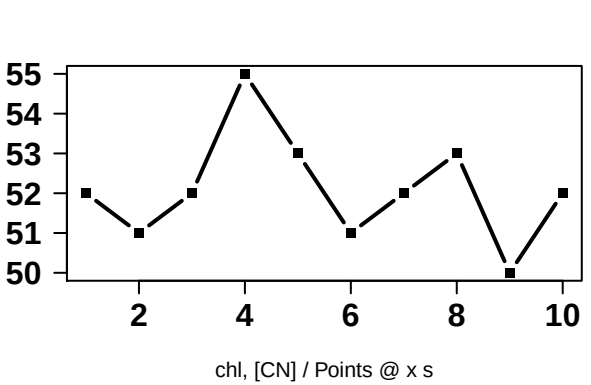

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

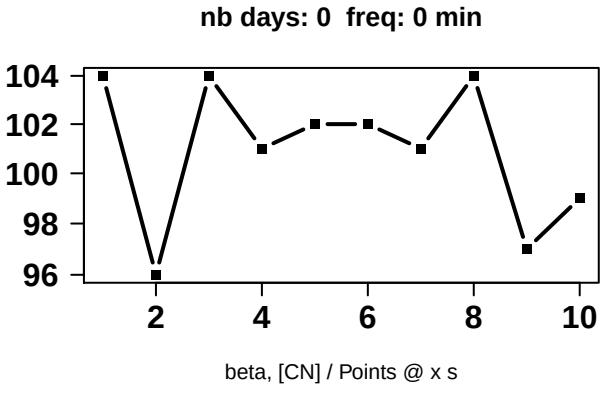

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

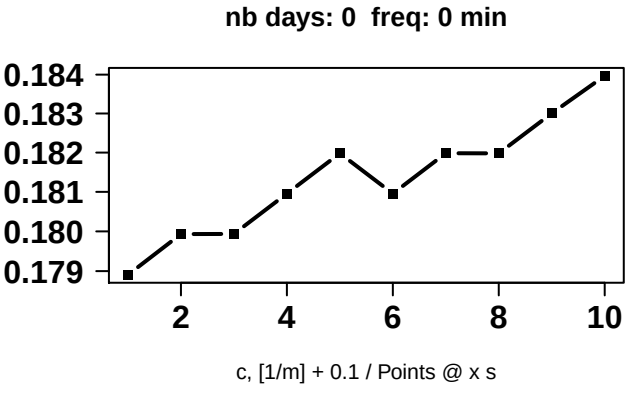

2013−01−11 23:09:30 2013−01−11 23:09:38
415
410
405
400
395
390
385
0
5
10
15
20
25
30
Pressure in

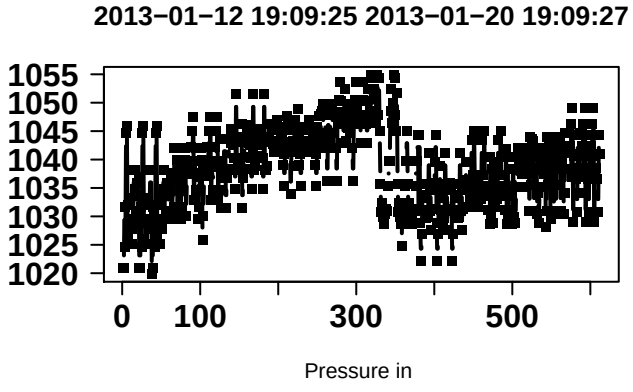

black 0.051 red 0.12
Seawater potential density anomaly
Seawater density − 1000
26.89
26.88
26.87
26.86
26.85
28.68
28.62
28.56
2
4
6
8
10

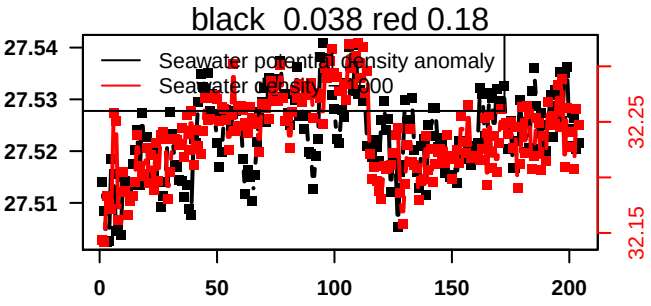

lovbio010b_011_03_06.txt
63
62
61
60
59
2
4
6
8
10
CDOM, [CN] / Points @ x s

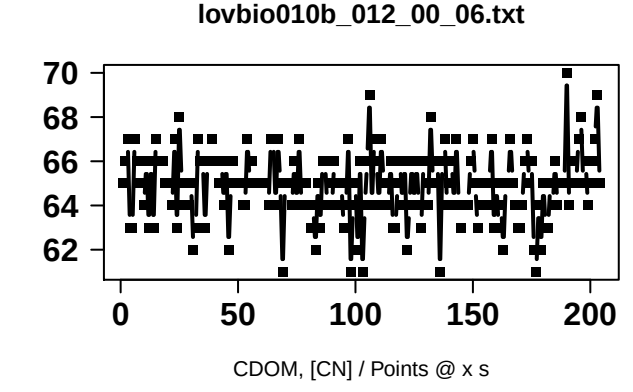

55
54
53
52
51
50
2
4
6
8
10
chl, [CN] / Points @ x s

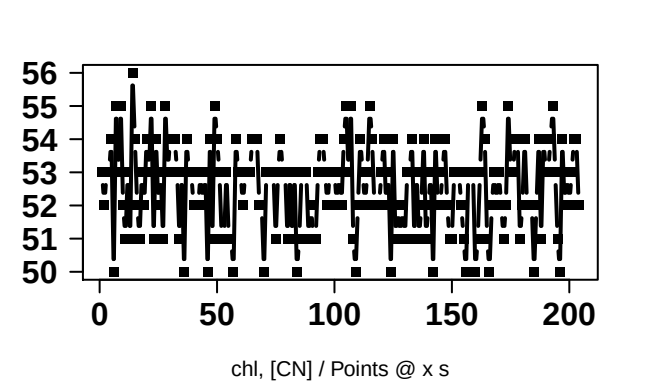

nb days: 0 freq: 0 min
104
102
100
98
96
2
4
6
8
10
beta, [CN] / Points @ x s

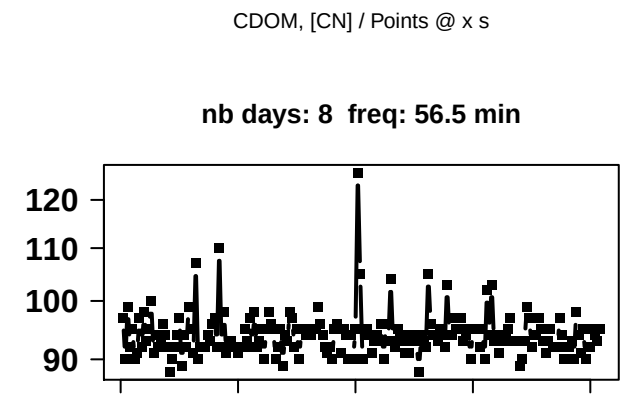

nb days: 0 freq: 0 min
0.184
0.183
0.182
0.181
0.180
0.179
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

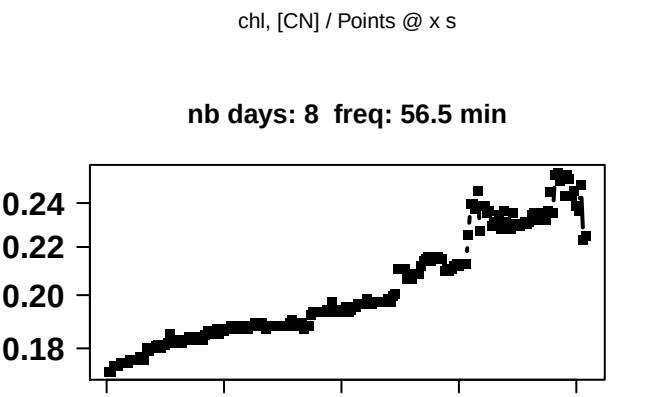

2013−01−12 19:09:25 2013−01−20 19:09:27
1055
1050
1045
1040
1035
1030
1025
1020
0
100
300
500
Pressure in

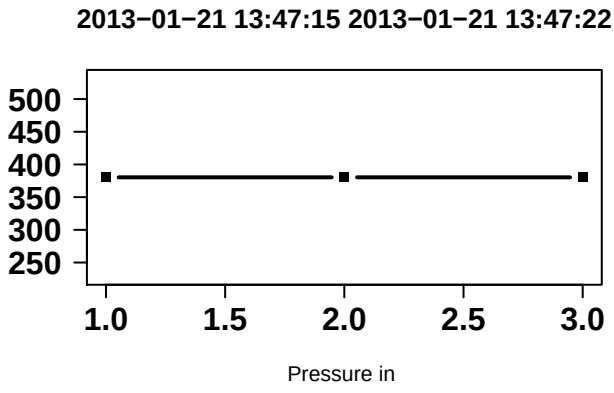

black 0.038 red 0.18
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
32.25
32.15
0
50
100
150
200

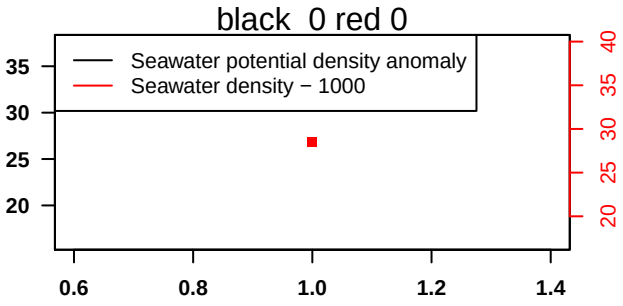

lovbio010b_012_00_06.txt
70
68
66
64
62
0
50
100
150
200
CDOM, [CN] / Points @ x s

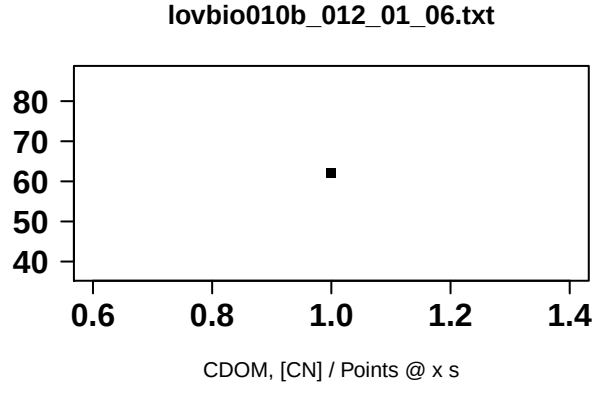

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

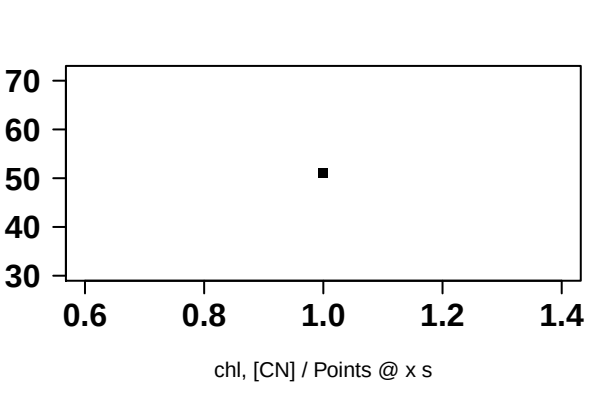

nb days: 8 freq: 56.5 min
120
110
100
90
0
50
100
150
200
beta, [CN] / Points @ x s

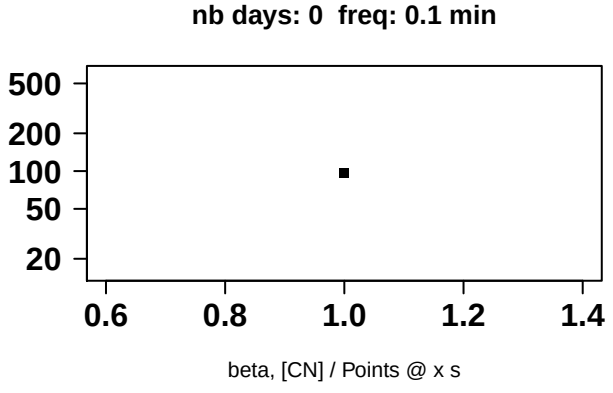

nb days: 8 freq: 56.5 min
0.24
0.22
0.20
0.18
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

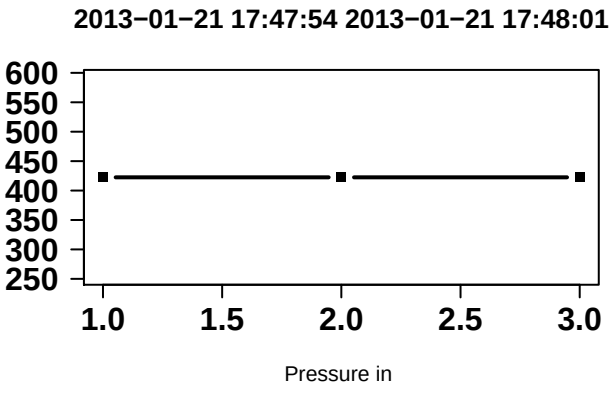

2013−01−21 13:47:15 2013−01−21 13:47:22
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

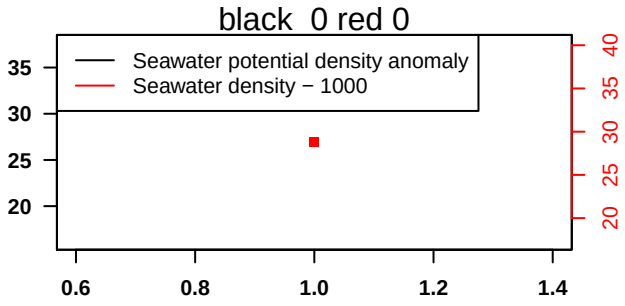

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

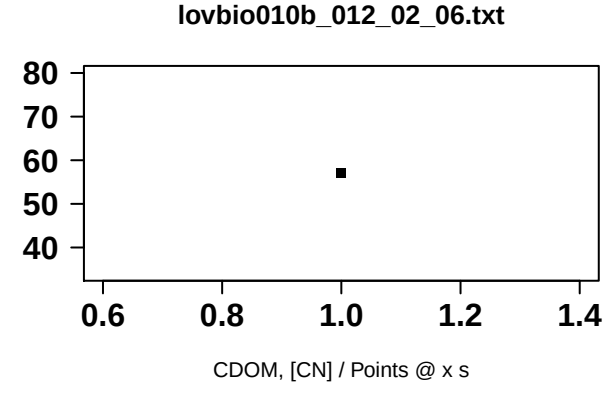

lovbio010b_012_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

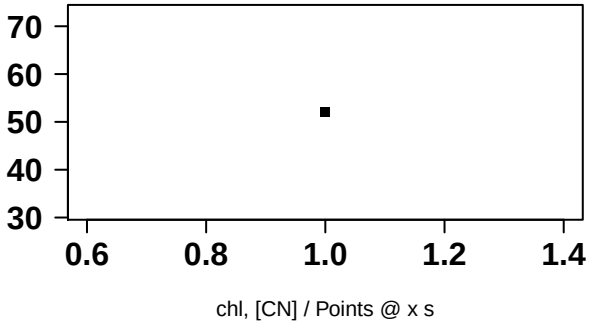

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

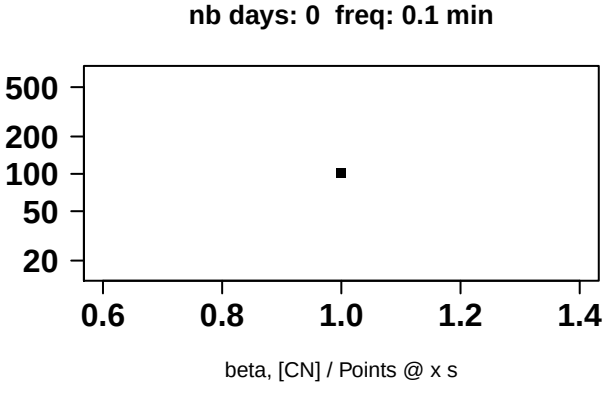

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

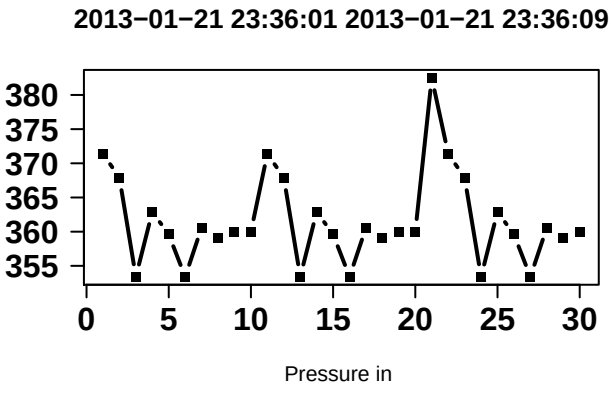

2013−01−21 17:47:54 2013−01−21 17:48:01
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

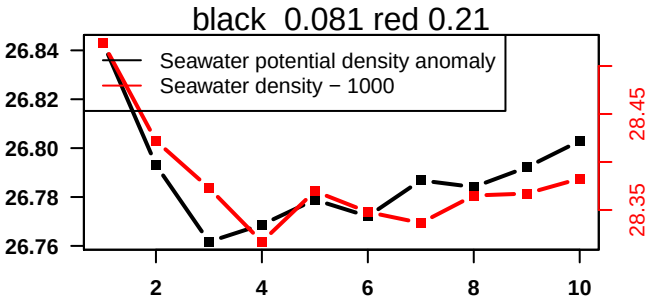

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

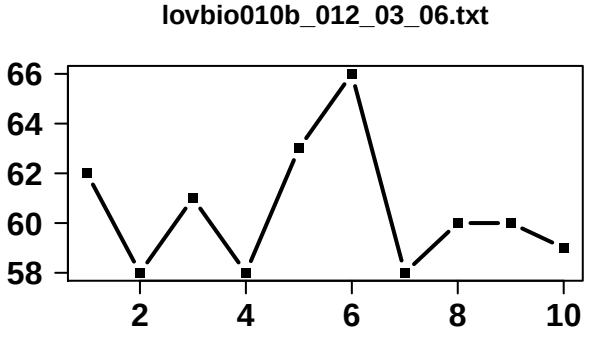

lovbio010b_012_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

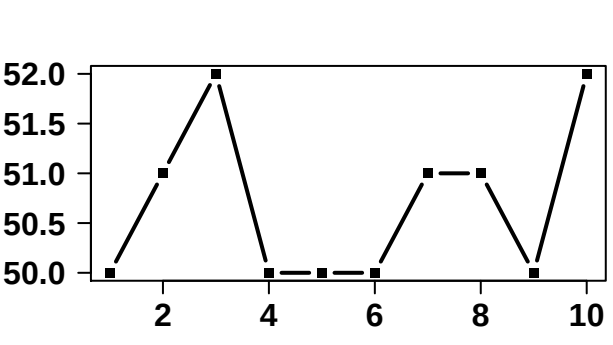

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

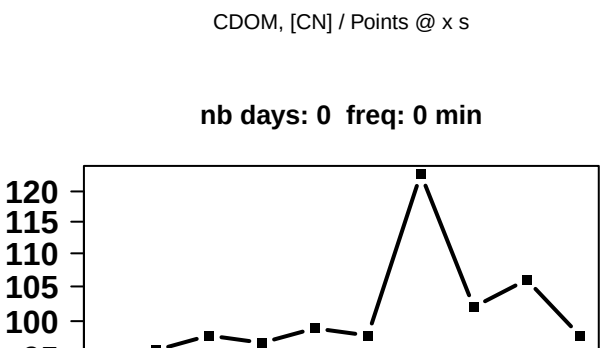

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

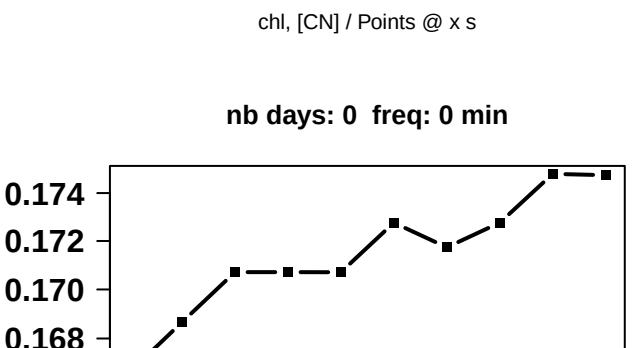

2013−01−21 23:36:01 2013−01−21 23:36:09
380
375
370
365
360
355
0
5
10
15
20
25
30
Pressure in

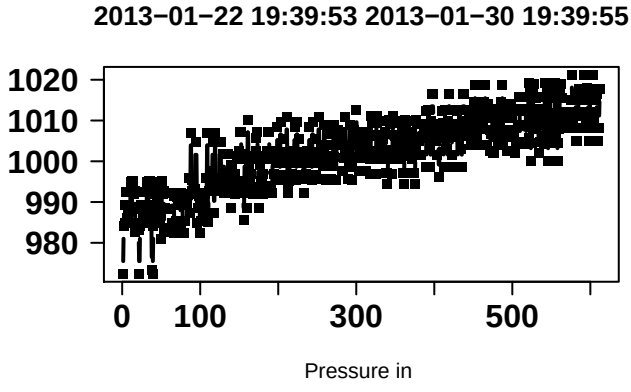

black 0.081 red 0.21
Seawater potential density anomaly
Seawater density − 1000
26.84
26.82
26.80
26.78
26.76
28.45
28.35
2
4
6
8
10

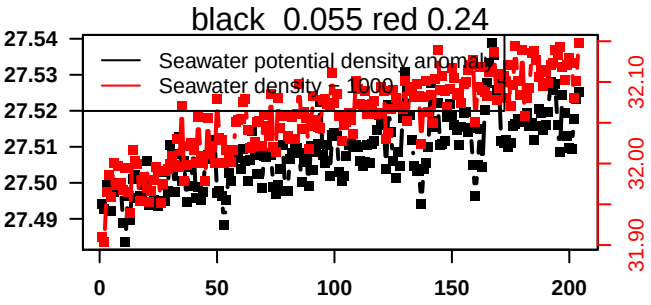

lovbio010b_012_03_06.txt
66
64
62
60
58
2
4
6
8
10
CDOM, [CN] / Points @ x s

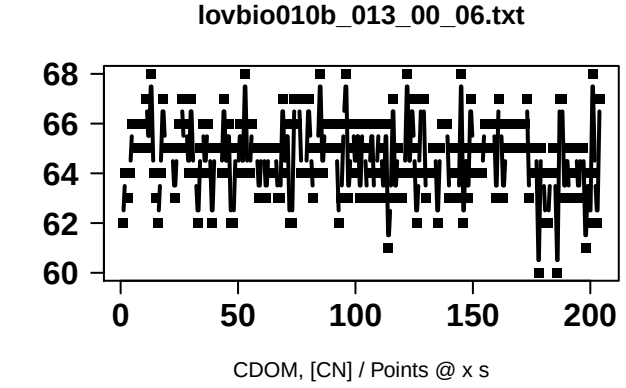

52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

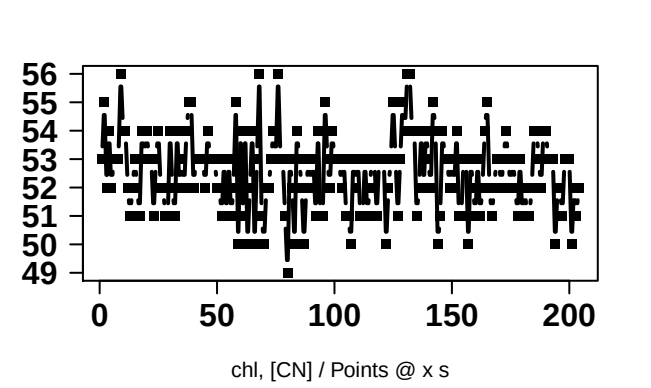

nb days: 0 freq: 0 min
120
115
110
105
100
95
2
4
6
8
10
beta, [CN] / Points @ x s

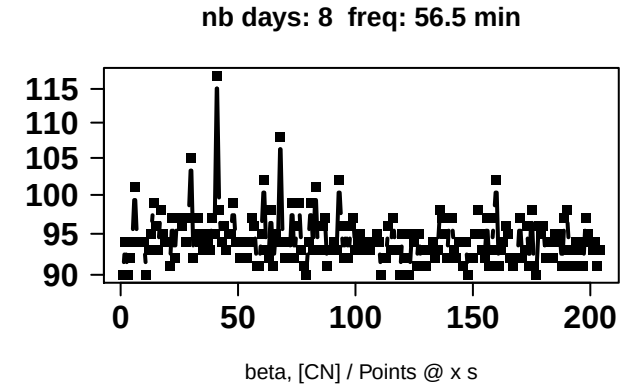

nb days: 0 freq: 0 min
0.174
0.172
0.170
0.168
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

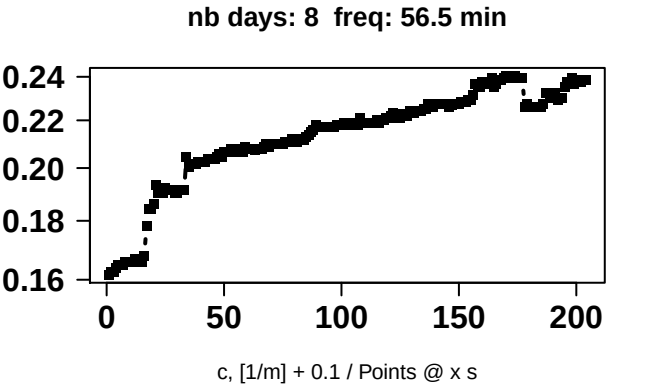

2013−01−22 19:39:53 2013−01−30 19:39:55
1020
1010
1000
990
980
0
100
300
500
Pressure in

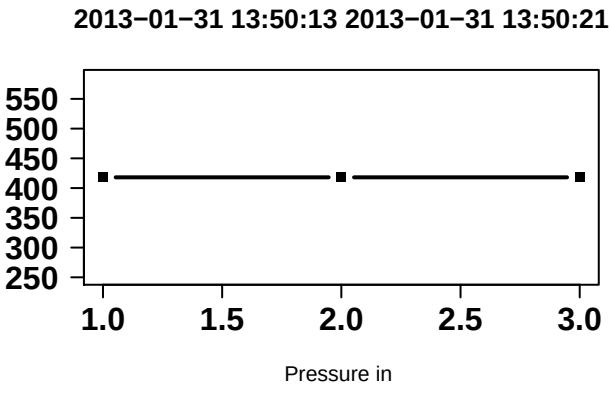

black 0.055 red 0.24
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
27.49
32.10
32.00
31.90
0
50
100
150
200

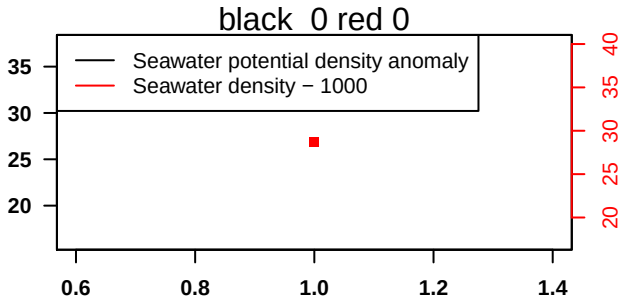

lovbio010b_013_00_06.txt
68
66
64
62
60
0
50
100
150
200
CDOM, [CN] / Points @ x s

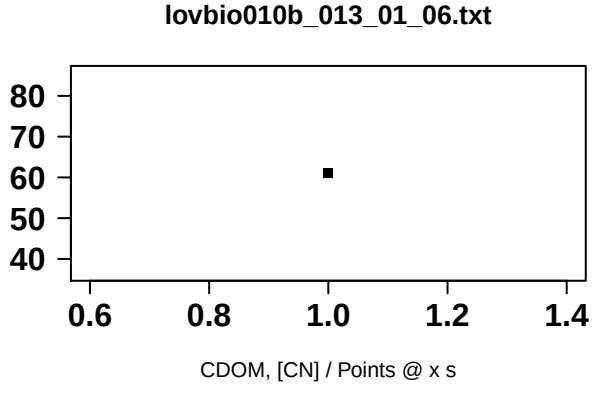

56
55
54
53
52
51
50
49
0
50
100
150
200
chl, [CN] / Points @ x s

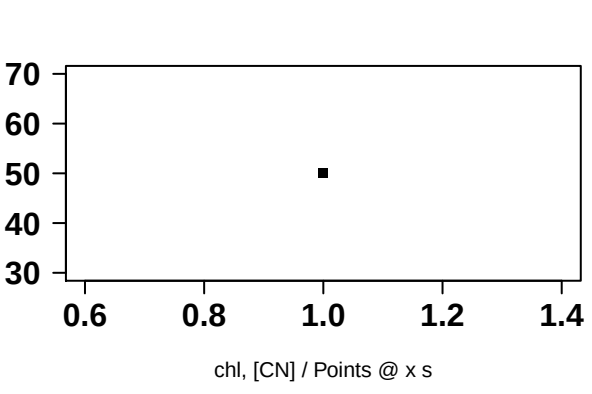

nb days: 8 freq: 56.5 min
115
110
105
100
95
90
0
50
100
150
200
beta, [CN] / Points @ x s

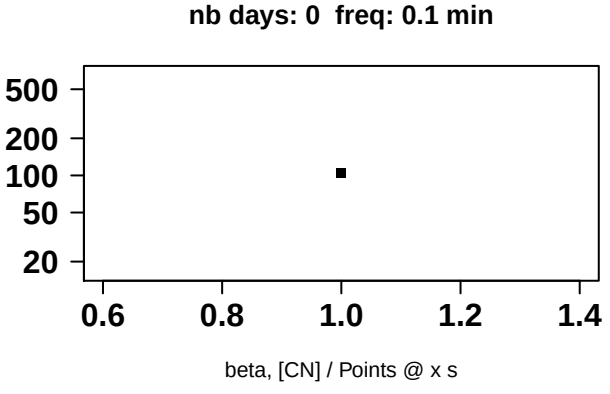

nb days: 8 freq: 56.5 min
0.24
0.22
0.20
0.18
0.16
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

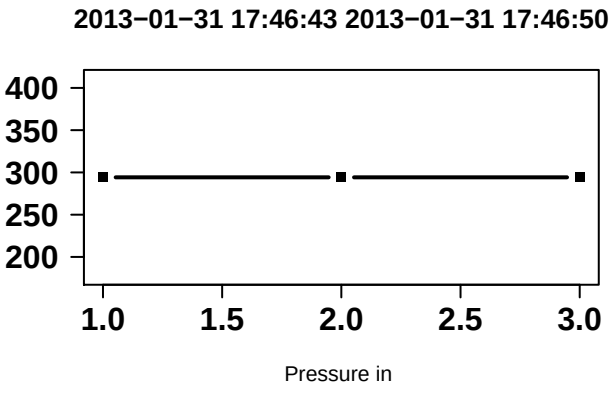

2013−01−31 13:50:13 2013−01−31 13:50:21
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

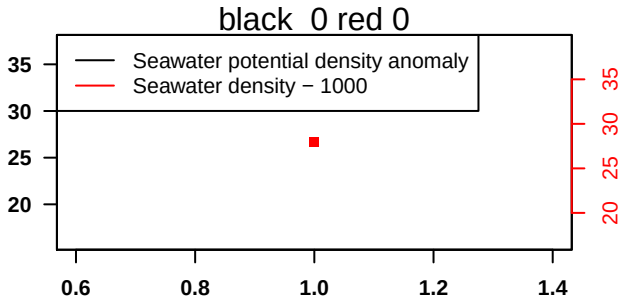

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

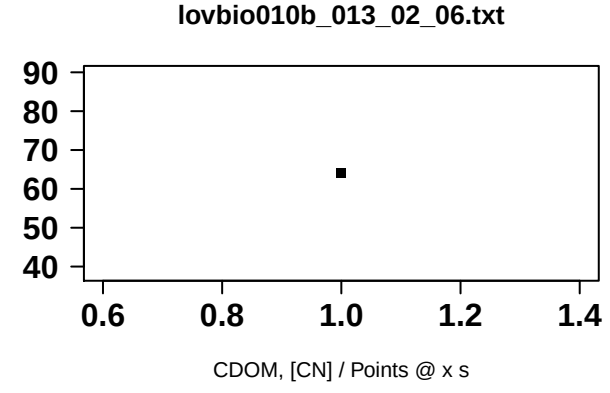

lovbio010b_013_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

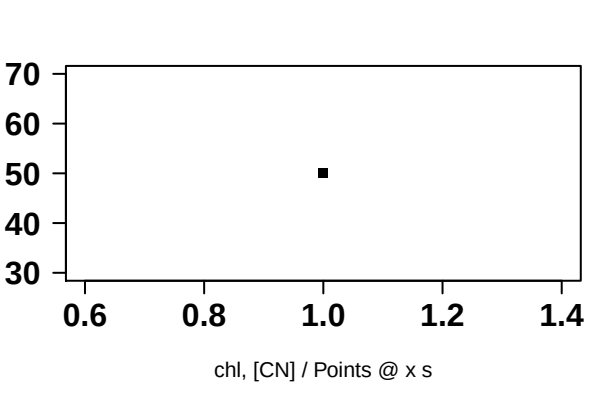

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

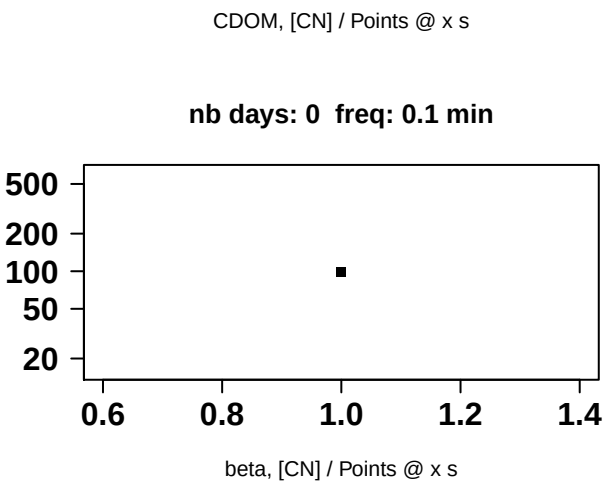

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

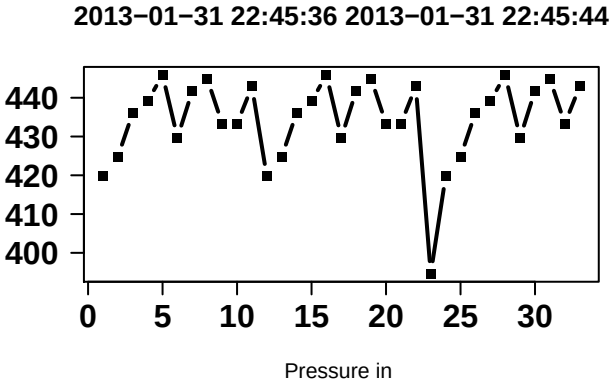

2013−01−31 17:46:43 2013−01−31 17:46:50
400
350
300
250
200
1.0
1.5
2.0
2.5
3.0
Pressure in

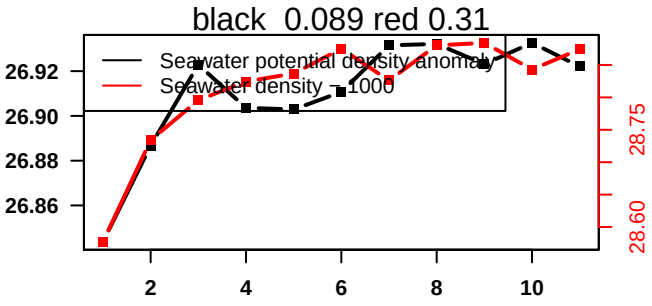

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4

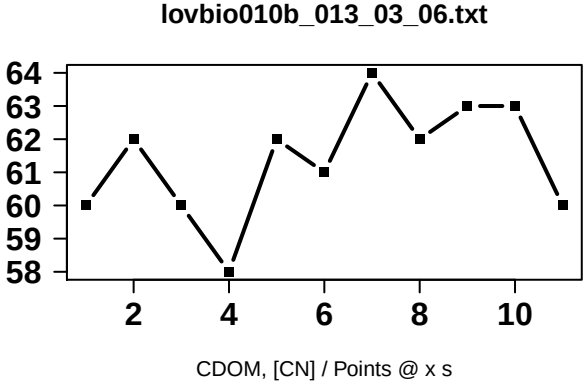

lovbio010b_013_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

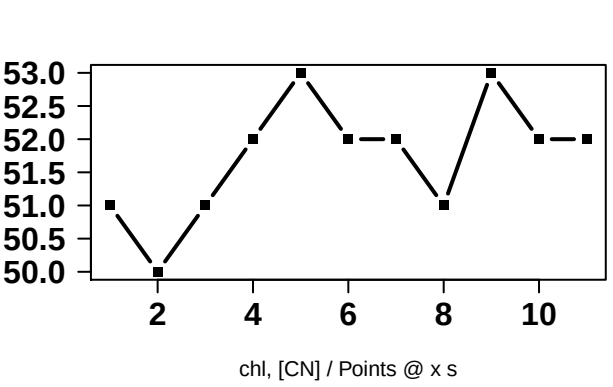

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

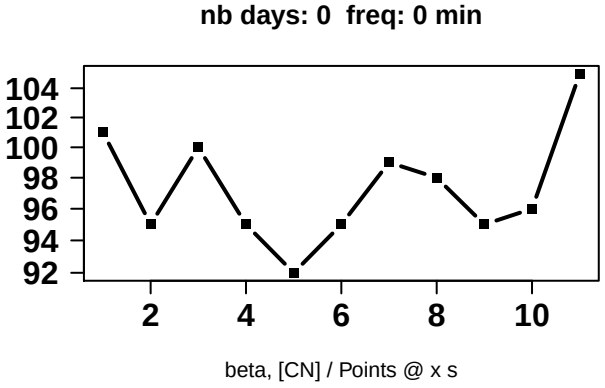

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

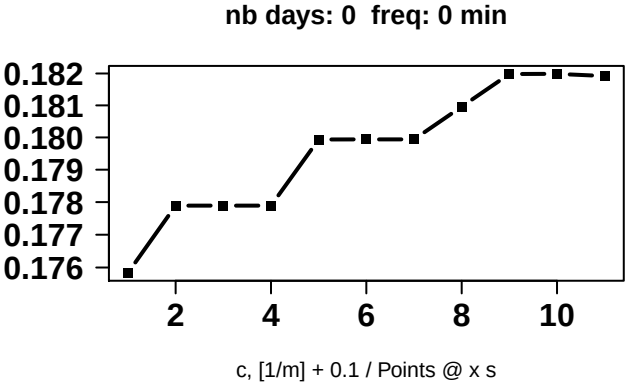

2013−01−31 22:45:36 2013−01−31 22:45:44
440
430
420
410
400
0
5
10
15
20
25
30
Pressure in

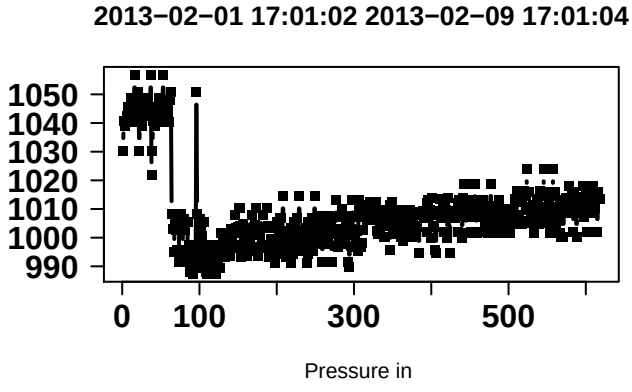

black 0.089 red 0.31
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
28.75
28.60
2
4
6
8
10

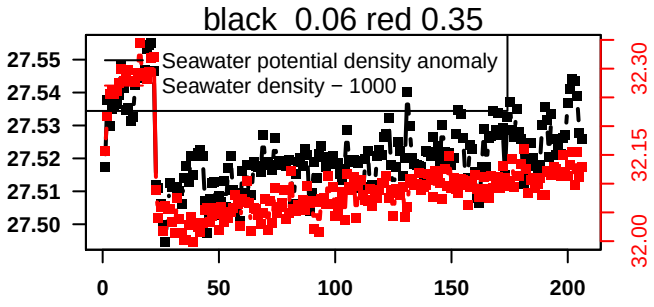

lovbio010b_013_03_06.txt
64
63
62
61
60
59
58
2
4
6
8
10
CDOM, [CN] / Points @ x s

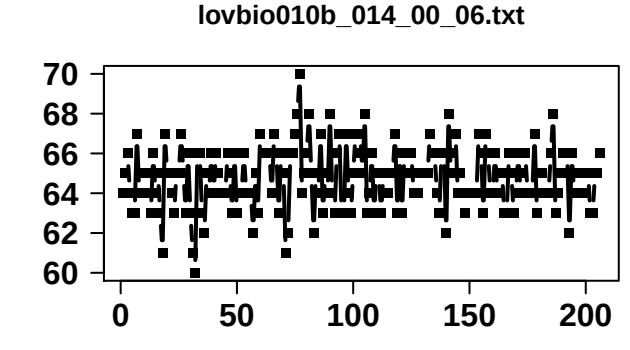

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

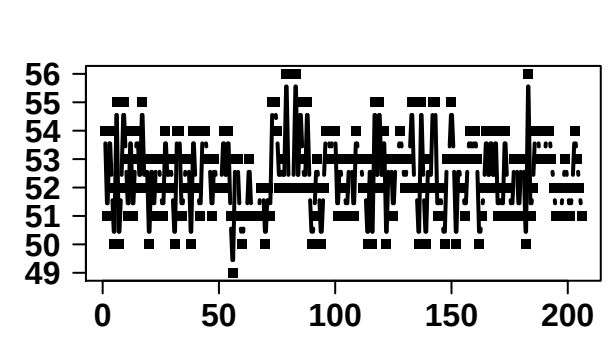

nb days: 0 freq: 0 min
104
102
100
98
96
94
92
2
4
6
8
10
beta, [CN] / Points @ x s

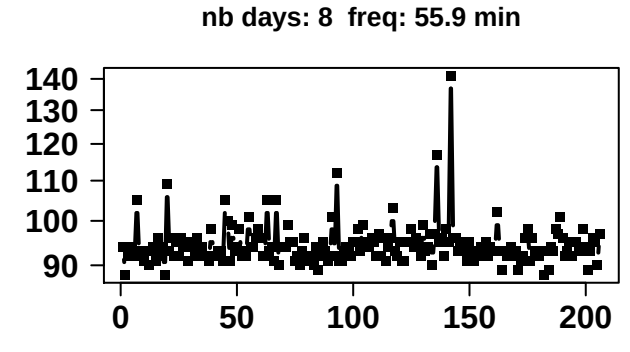

nb days: 0 freq: 0 min
0.182
0.181
0.180
0.179
0.178
0.177
0.176
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

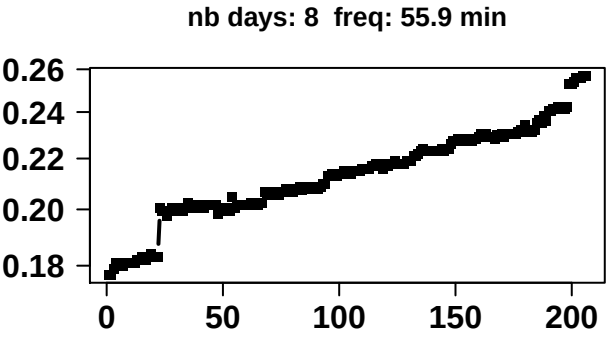

2013−02−01 17:01:02 2013−02−09 17:01:04
1050
1040
1030
1020
1010
1000
990
0
100
300
500
Pressure in

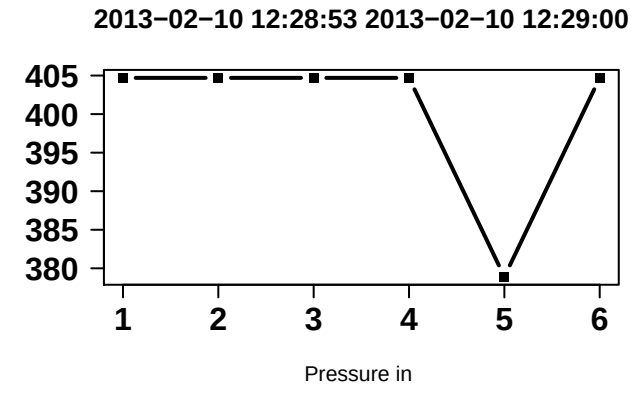

black 0.06 red 0.35
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
27.50
32.30
32.15
32.00
0
50
100
150
200

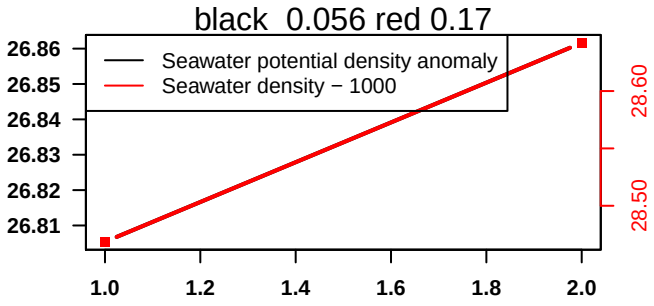

lovbio010b_014_00_06.txt
70
68
66
64
62
60
0
50
100
150
200
CDOM, [CN] / Points @ x s

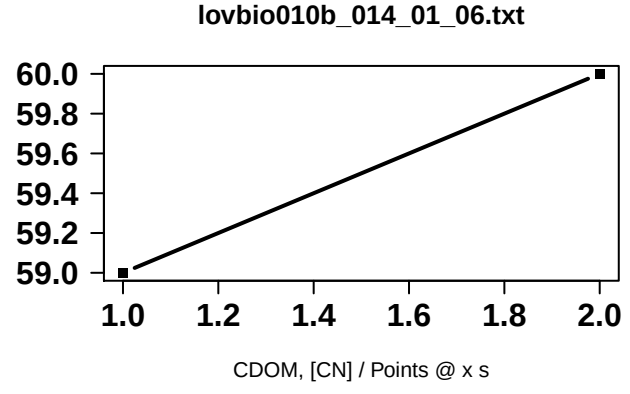

56
55
54
53
52
51
50
49
0
50
100
150
200
chl, [CN] / Points @ x s

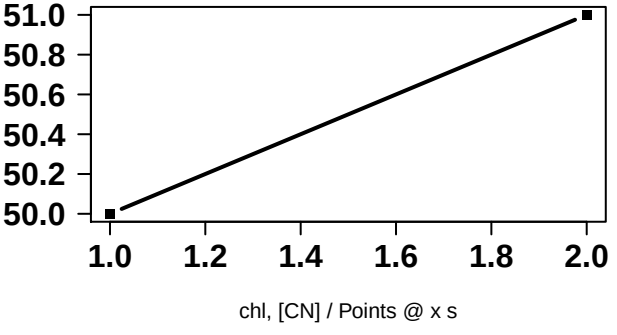

nb days: 8 freq: 55.9 min
140
130
120
110
100
90
0
50
100
150
200
beta, [CN] / Points @ x s

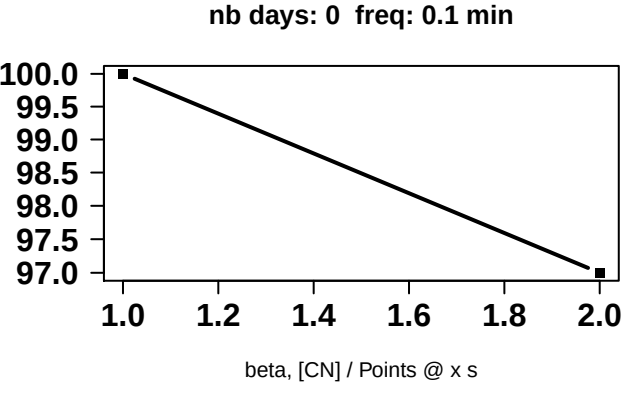

nb days: 8 freq: 55.9 min
0.26
0.24
0.22
0.20
0.18
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

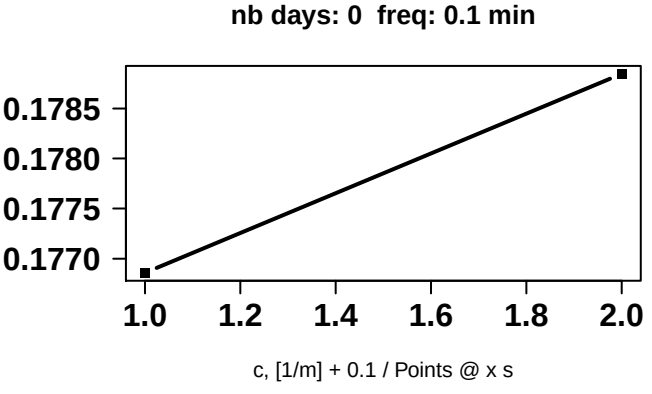

2013−02−10 12:28:53 2013−02−10 12:29:00
405
400
395
390
385
380
1
2
3
4
5
6
Pressure in

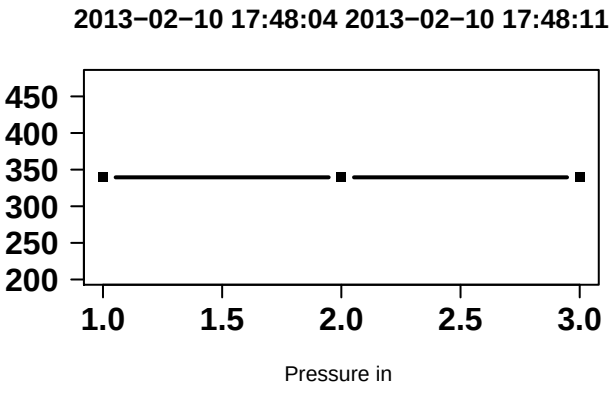

black 0.056 red 0.17
Seawater potential density anomaly
Seawater density − 1000
26.86
26.85
26.84
26.83
26.82
26.81
28.60
28.50
1.0
1.2
1.4
1.6
1.8
2.0

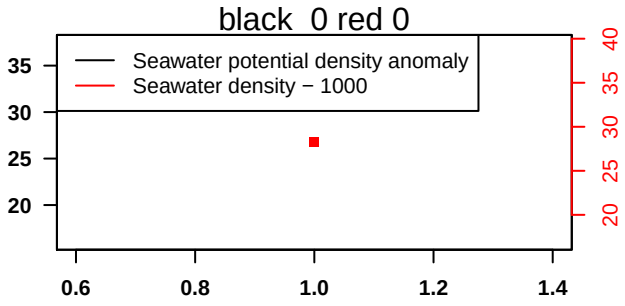

lovbio010b_014_01_06.txt
60.0
59.8
59.6
59.4
59.2
59.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

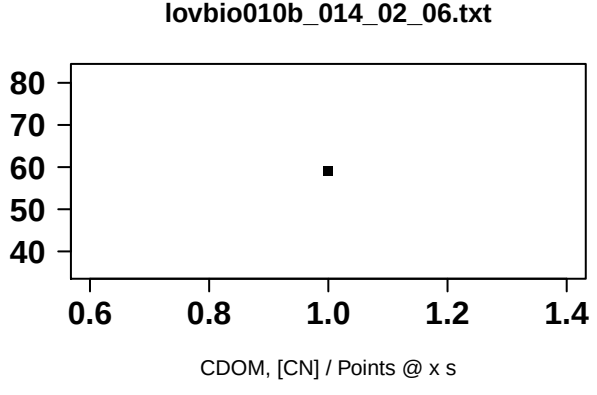

51.0
50.8
50.6
50.4
50.2
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

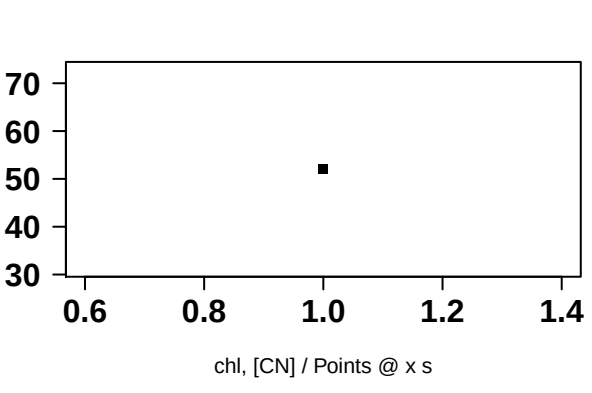

nb days: 0 freq: 0.1 min
100.0
99.5
99.0
98.5
98.0
97.5
97.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

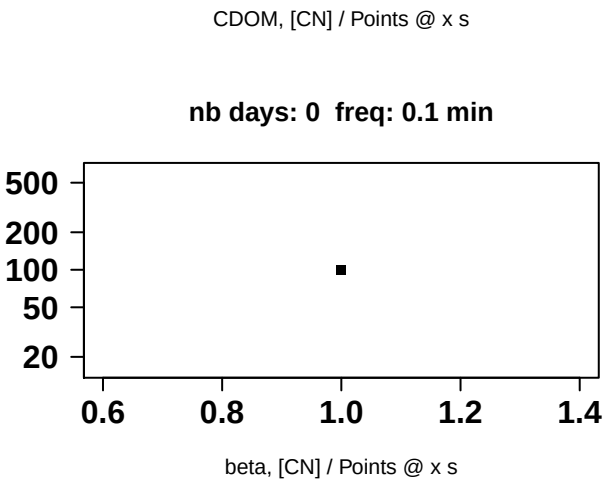

nb days: 0 freq: 0.1 min
0.1785
0.1780
0.1775
0.1770
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

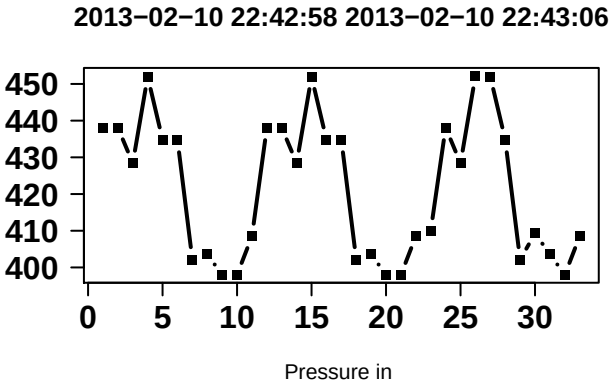

2013−02−10 17:48:04 2013−02−10 17:48:11
450
400
350
300
250
200
1.0
1.5
2.0
2.5
3.0
Pressure in

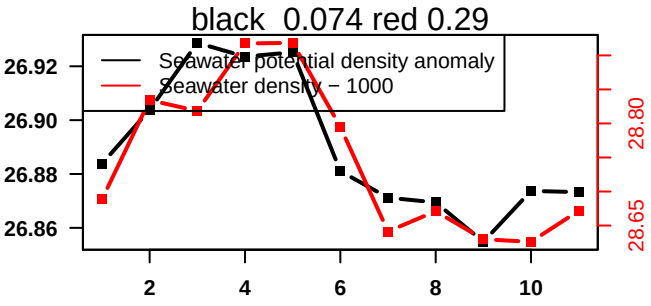

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

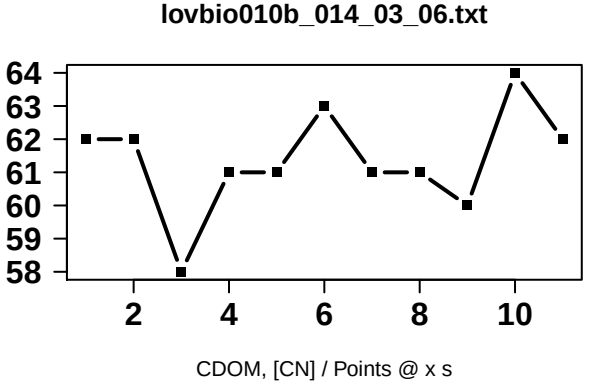

lovbio010b_014_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

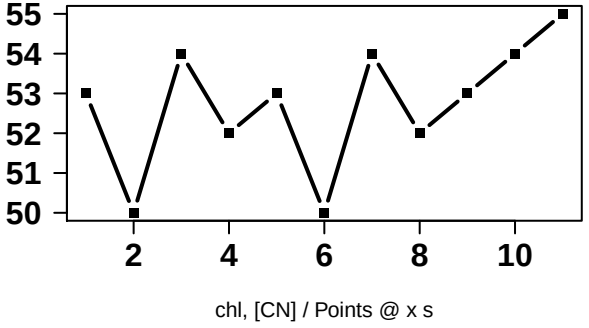

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

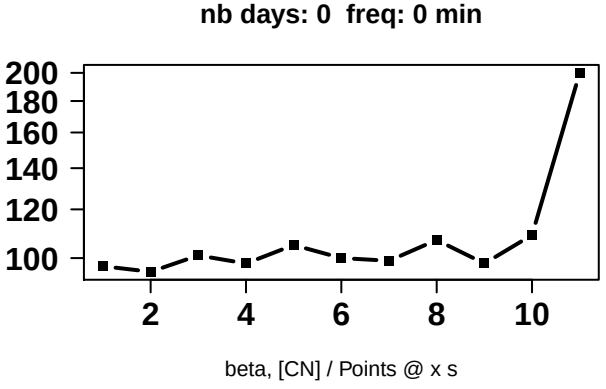

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

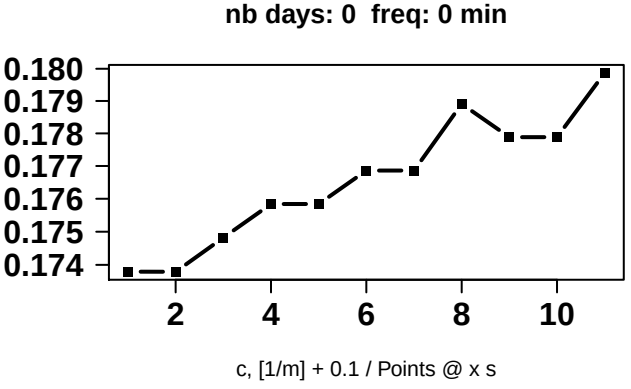

2013−02−10 22:42:58 2013−02−10 22:43:06
450
440
430
420
410
400
0
5
10
15
20
25
30
Pressure in

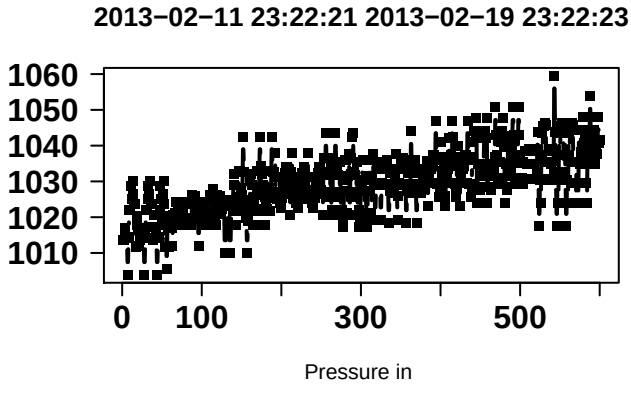

black 0.074 red 0.29
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
28.80
28.65
2
4
6
8
10

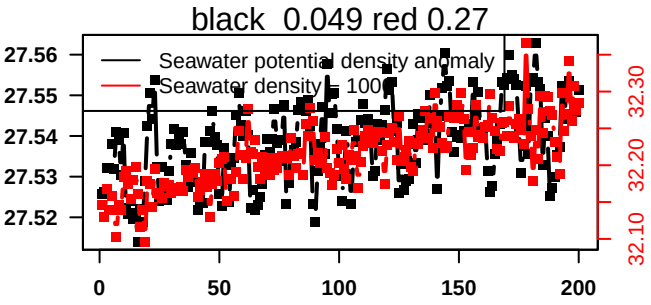

lovbio010b_014_03_06.txt
64
63
62
61
60
59
58
2
4
6
8
10
CDOM, [CN] / Points @ x s

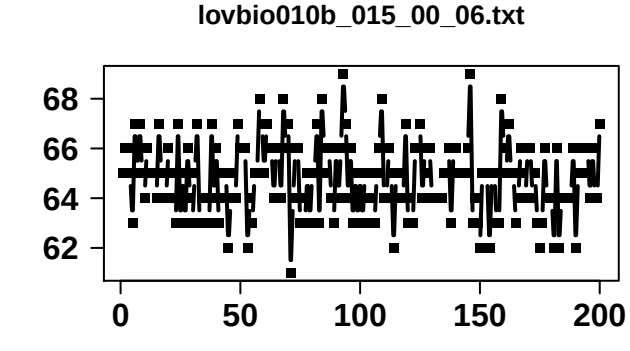

55
54
53
52
51
50
2
4
6
8
10
chl, [CN] / Points @ x s

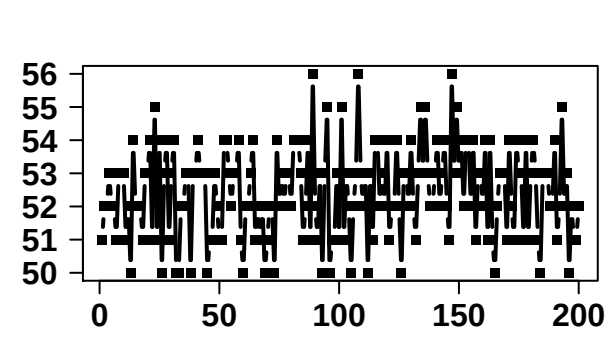

nb days: 0 freq: 0 min
200
180
160
140
120
100
2
4
6
8
10
beta, [CN] / Points @ x s

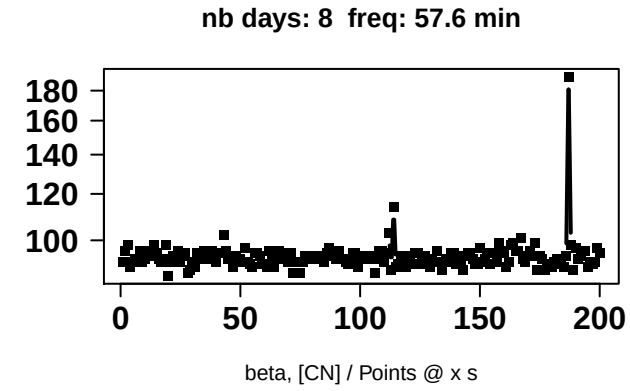

nb days: 0 freq: 0 min
0.180
0.179
0.178
0.177
0.176
0.175
0.174
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

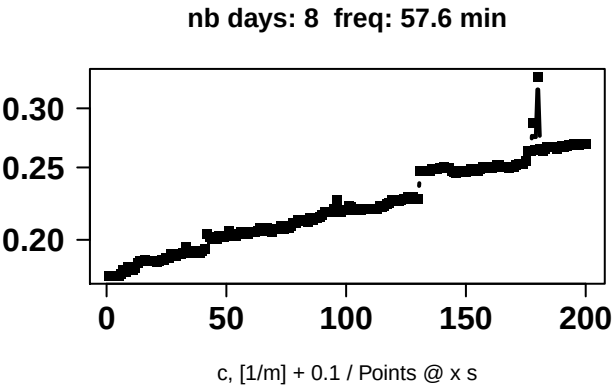

2013−02−11 23:22:21 2013−02−19 23:22:23
1060
1050
1040
1030
1020
1010
0
100
300
500
Pressure in

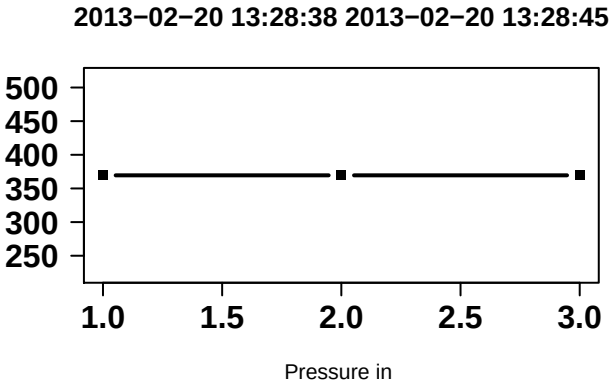

black 0.049 red 0.27
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
32.30
32.20
32.10
0
50
100
150
200

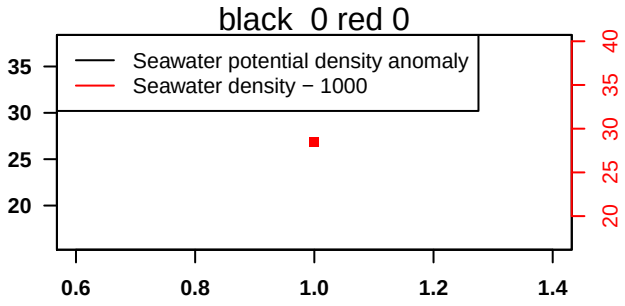

lovbio010b_015_00_06.txt
68
66
64
62
0
50
100
150
200
CDOM, [CN] / Points @ x s

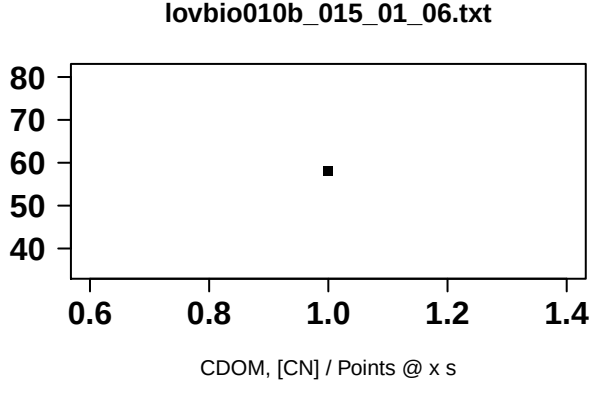

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

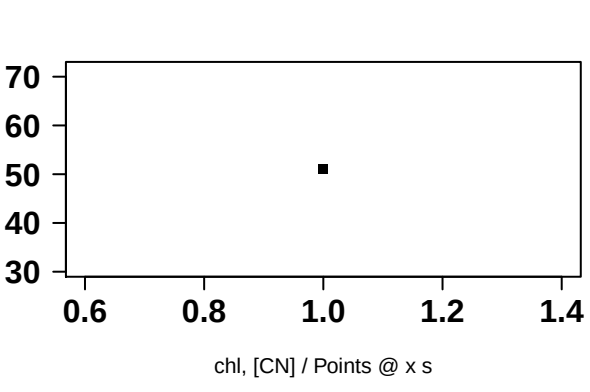

nb days: 8 freq: 57.6 min
180
160
140
120
100
0
50
100
150
200
beta, [CN] / Points @ x s

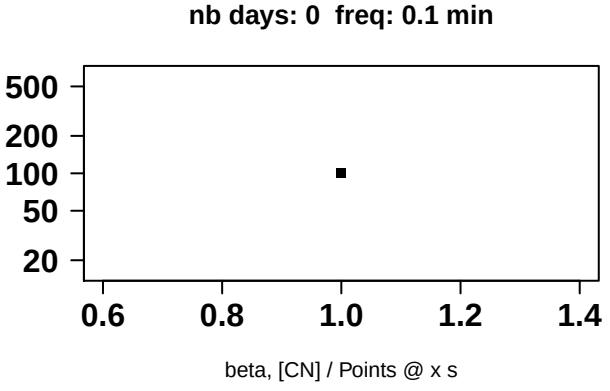

nb days: 8 freq: 57.6 min
0.30
0.25
0.20
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

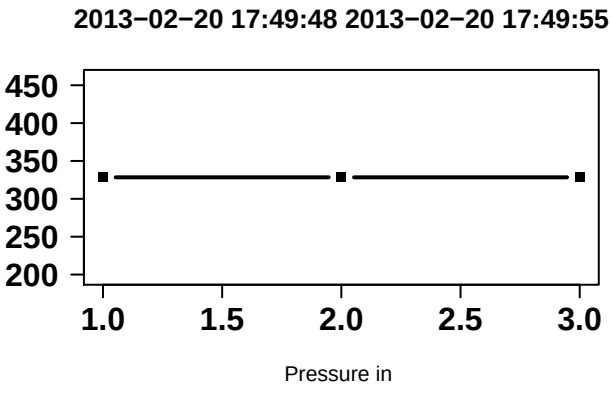

2013−02−20 13:28:38 2013−02−20 13:28:45
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

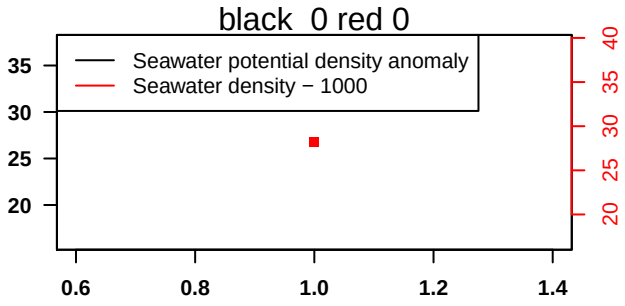

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

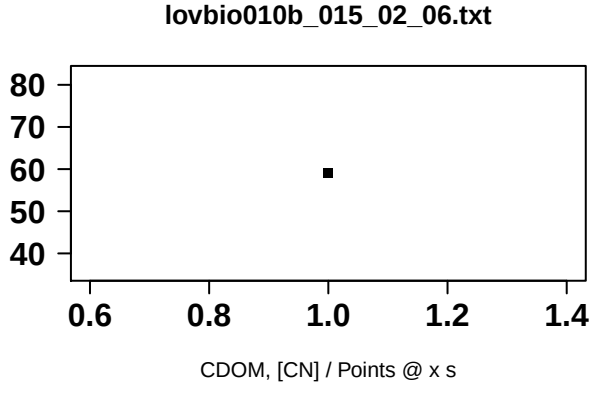

lovbio010b_015_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

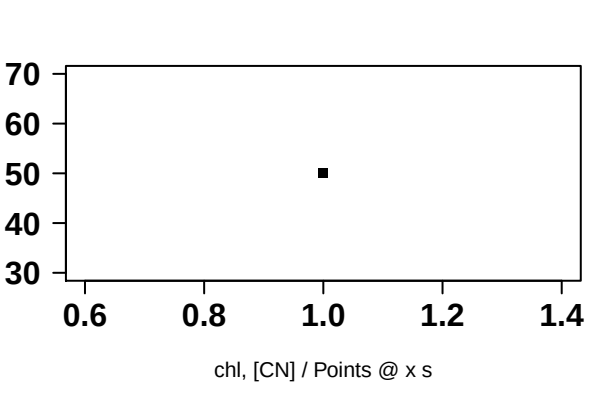

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

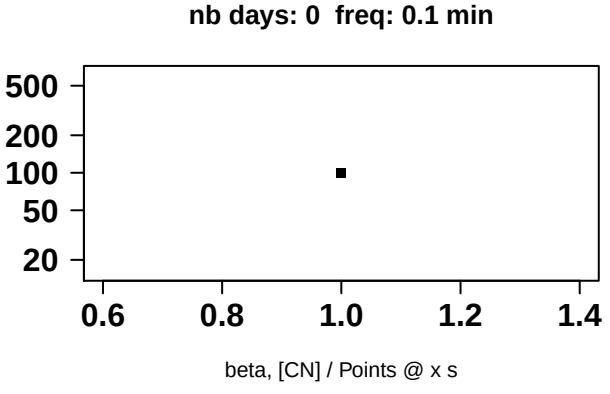

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

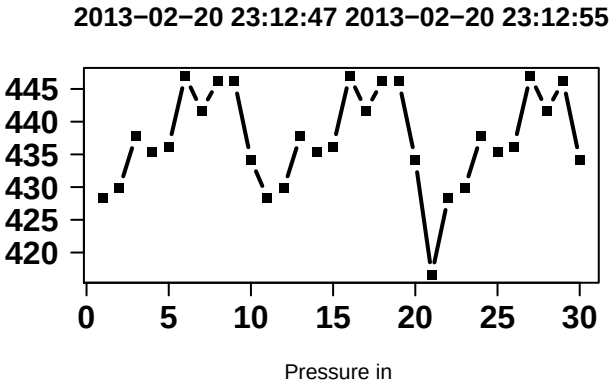

2013−02−20 17:49:48 2013−02−20 17:49:55
450
400
350
300
250
200
1.0
1.5
2.0
2.5
3.0
Pressure in

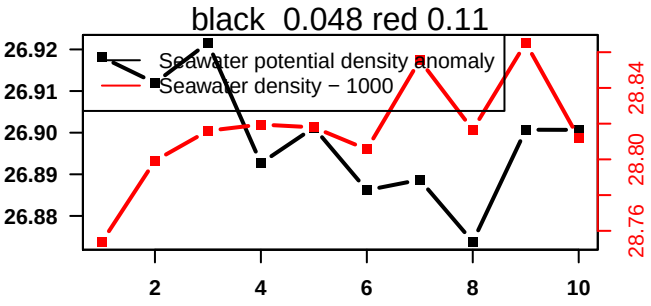

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

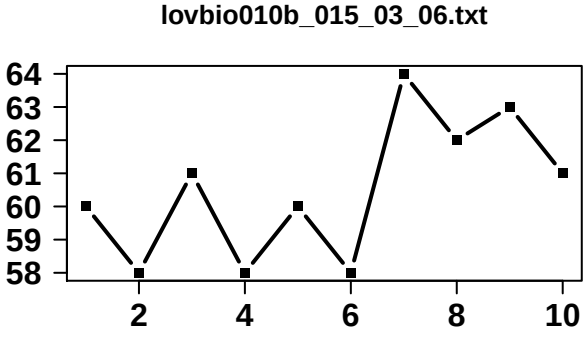

lovbio010b_015_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

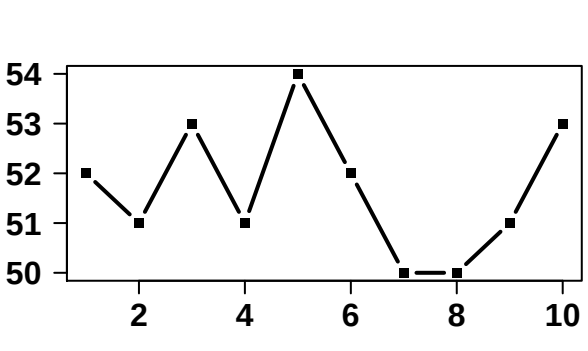

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

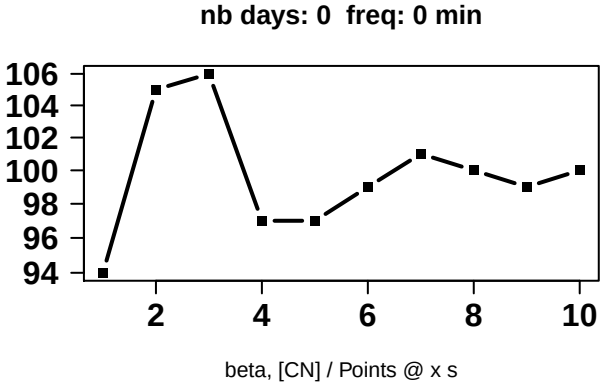

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

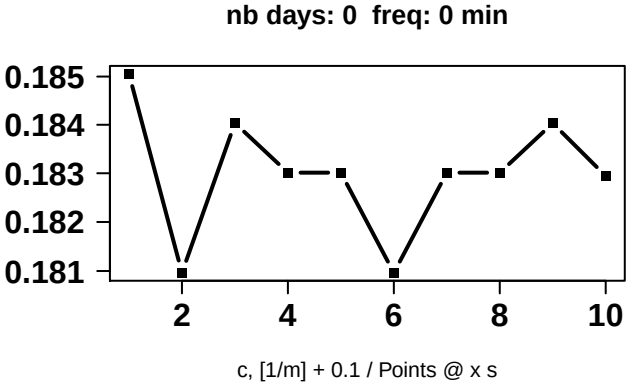

2013−02−20 23:12:47 2013−02−20 23:12:55
445
440
435
430
425
420
0
5
10
15
20
25
30
Pressure in

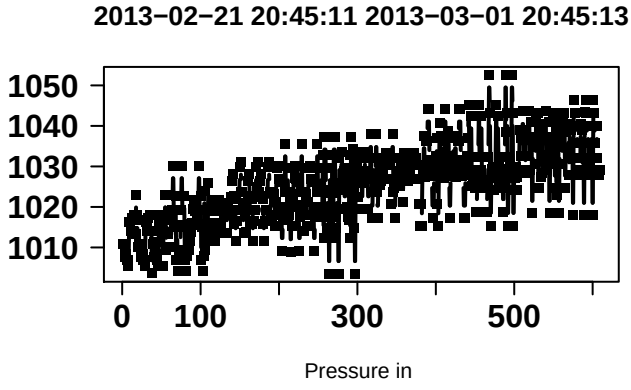

black 0.048 red 0.11
Seawater potential density anomaly
Seawater density − 1000
26.92
26.91
26.90
26.89
26.88
28.84
28.80
28.76
2
4
6
8
10

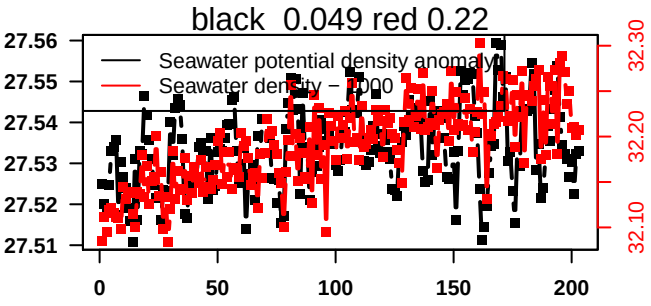

lovbio010b_015_03_06.txt
64
63
62
61
60
59
58
2
4
6
8
10
CDOM, [CN] / Points @ x s

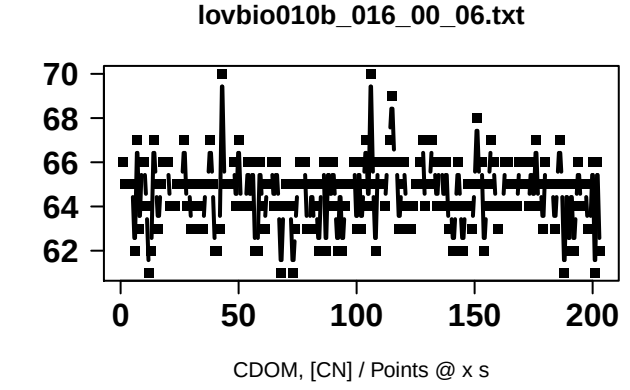

54
53
52
51
50
2
4
6
8
10
chl, [CN] / Points @ x s

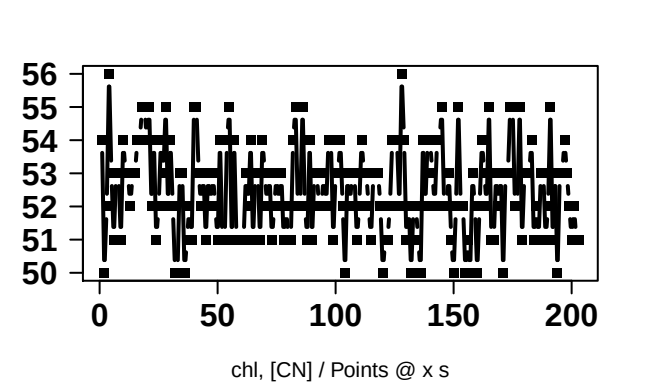

nb days: 0 freq: 0 min
106
104
102
100
98
96
94
2
4
6
8
10
beta, [CN] / Points @ x s

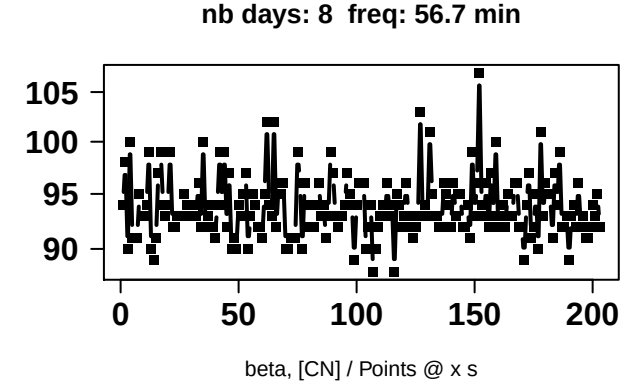

nb days: 0 freq: 0 min
0.185
0.184
0.183
0.182
0.181
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

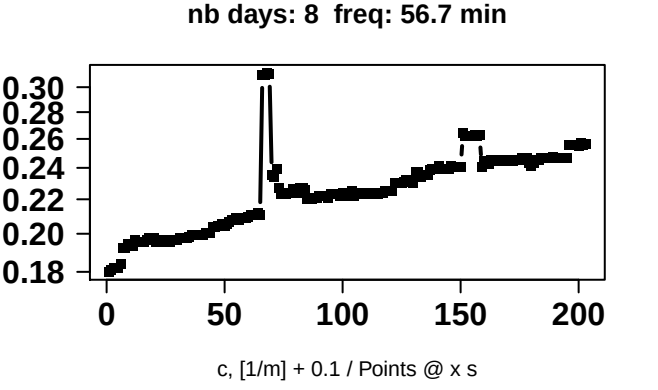

2013−02−21 20:45:11 2013−03−01 20:45:13
1050
1040
1030
1020
1010
0
100
300
500
Pressure in

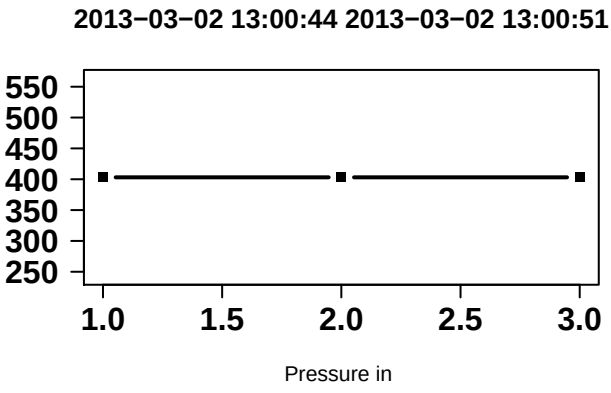

black 0.049 red 0.22
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
27.51
32.30
32.20
32.10
0
50
100
150
200

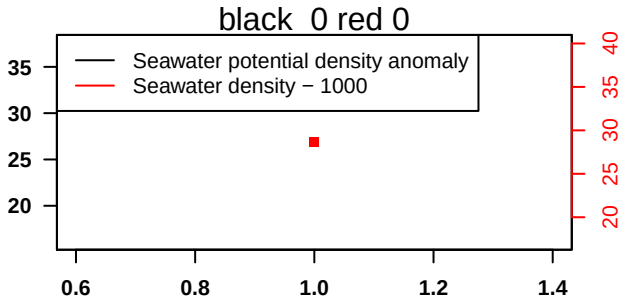

lovbio010b_016_00_06.txt
70
68
66
64
62
0
50
100
150
200
CDOM, [CN] / Points @ x s

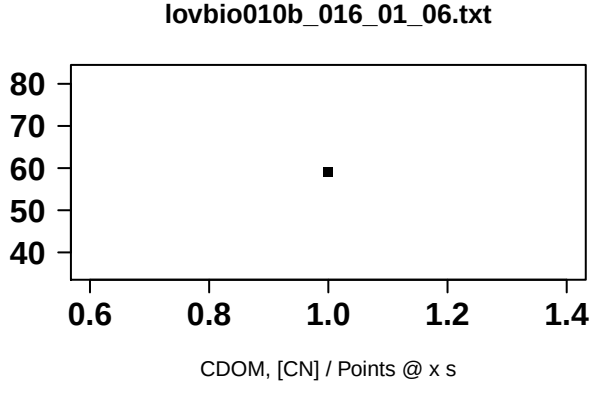

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

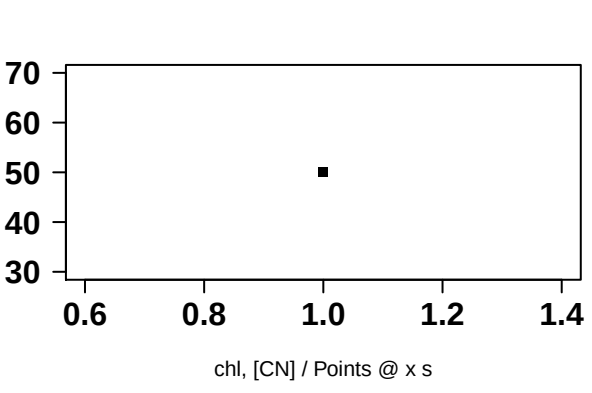

nb days: 8 freq: 56.7 min
105
100
95
90
0
50
100
150
200
beta, [CN] / Points @ x s

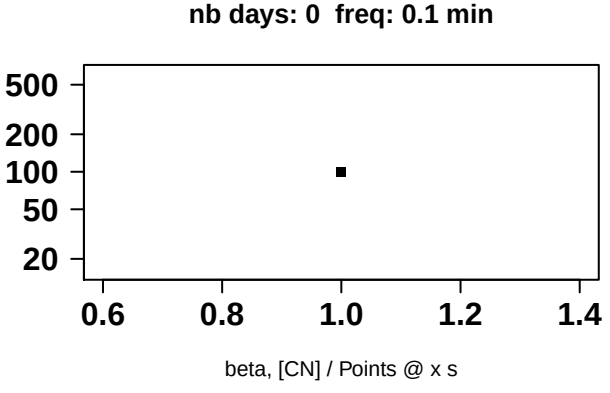

nb days: 8 freq: 56.7 min
0.30
0.28
0.26
0.24
0.22
0.20
0.18
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

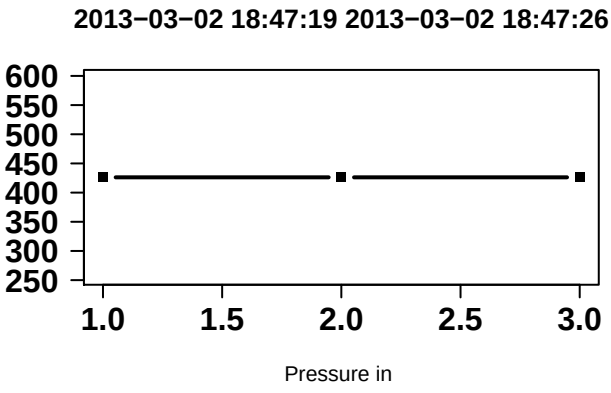

2013−03−02 13:00:44 2013−03−02 13:00:51
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

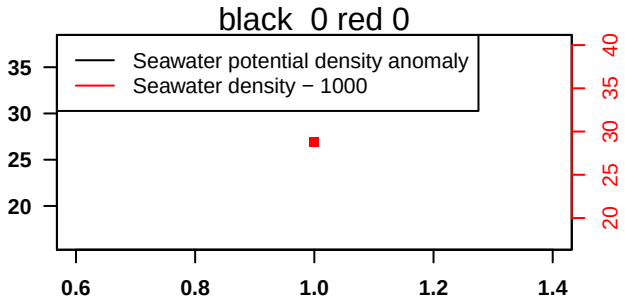

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

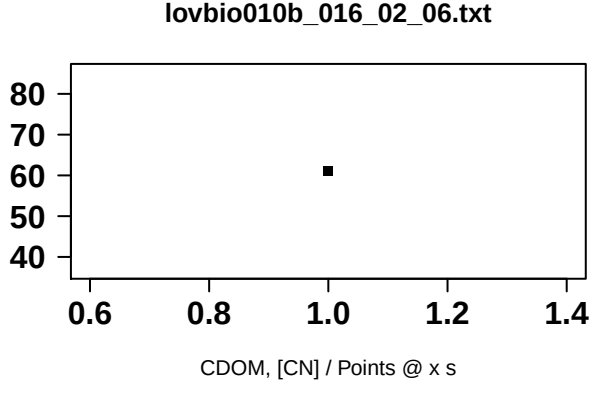

lovbio010b_016_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

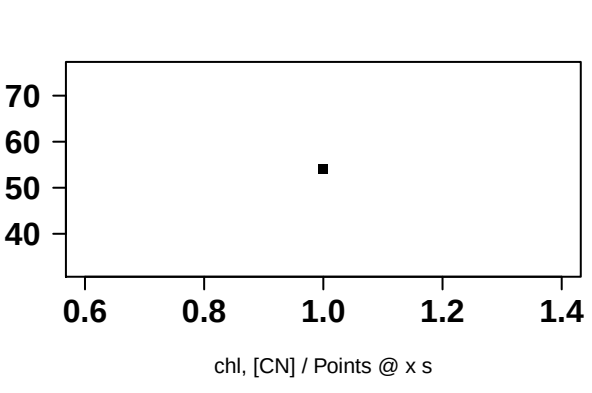

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

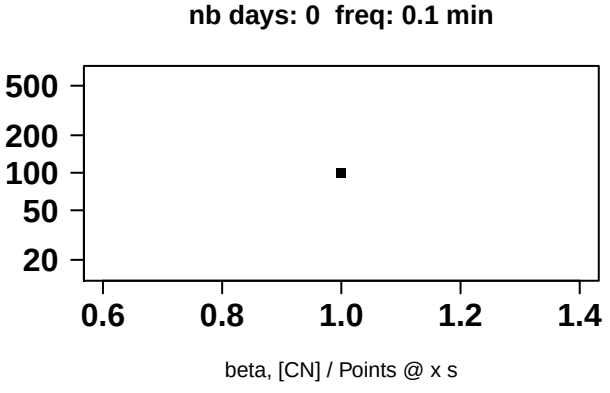

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

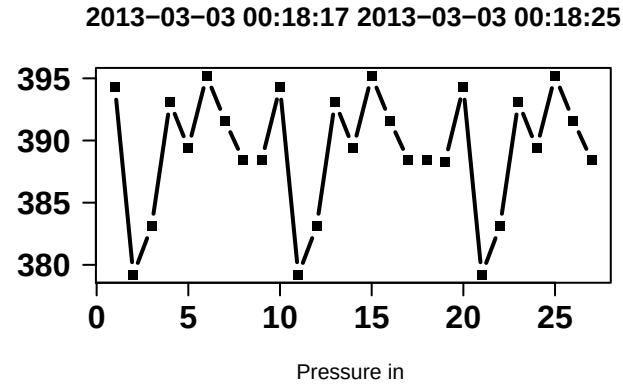

2013−03−02 18:47:19 2013−03−02 18:47:26
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

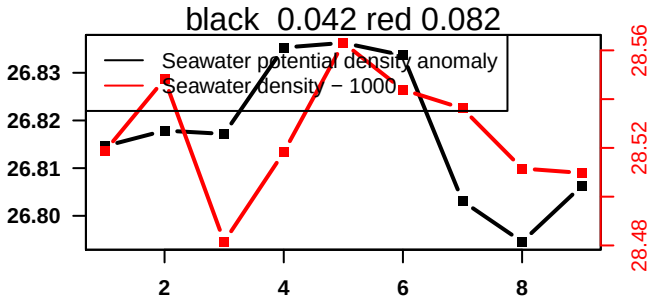

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

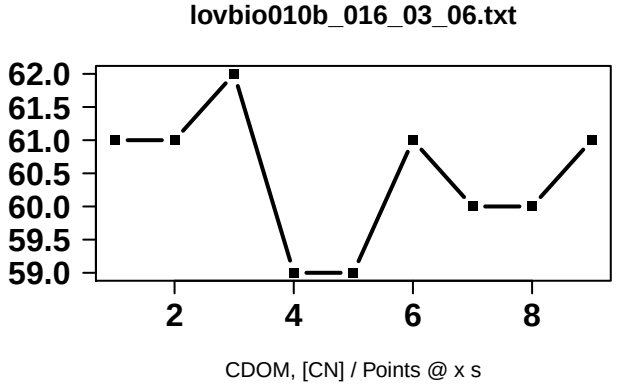

lovbio010b_016_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

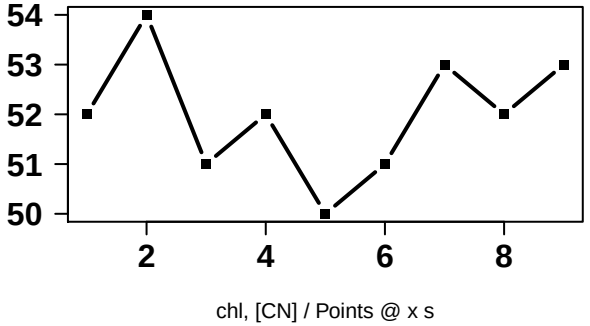

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

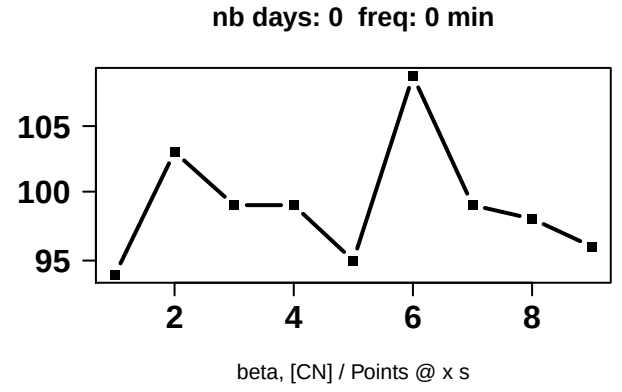

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

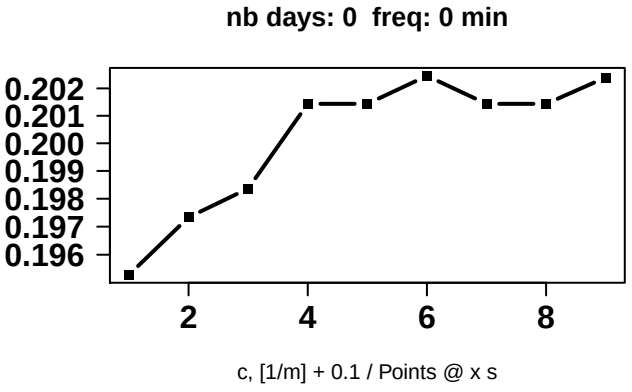

2013−03−03 00:18:17 2013−03−03 00:18:25
395
390
385
380
0
5
10
15
20
25
Pressure in

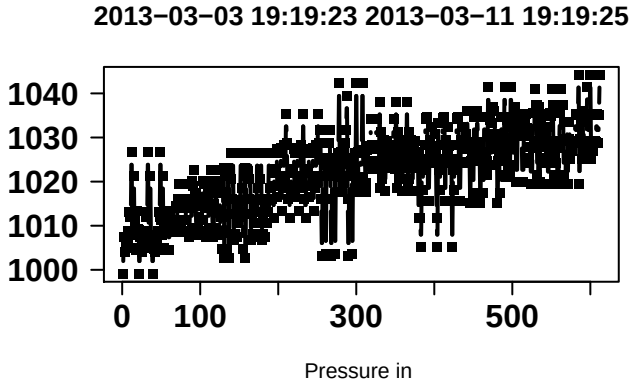

black 0.042 red 0.082
Seawater potential density anomaly
Seawater density − 1000
26.83
26.82
26.81
26.80
28.56
28.52
28.48
2
4
6
8

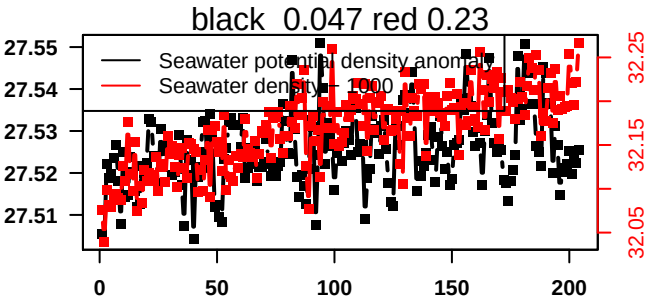

lovbio010b_016_03_06.txt
62.0
61.5
61.0
60.5
60.0
59.5
59.0
2
4
6
8
CDOM, [CN] / Points @ x s

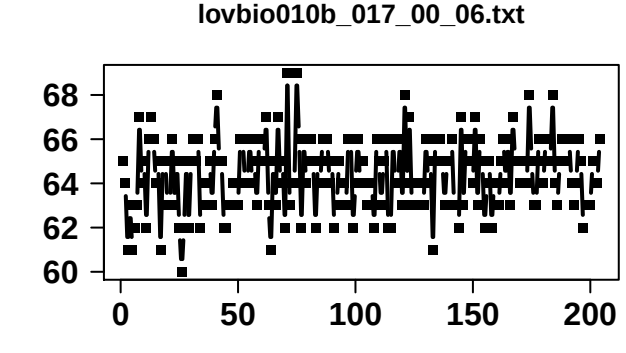

54
53
52
51
50
2
4
6
8
chl, [CN] / Points @ x s

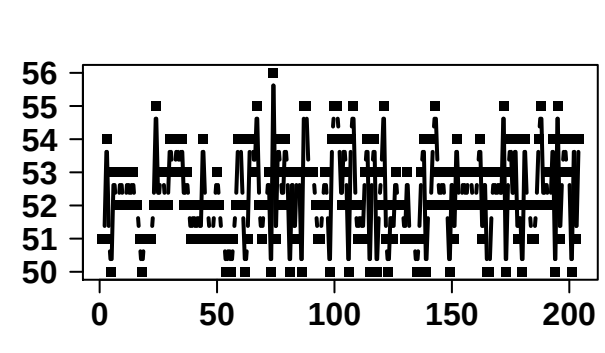

nb days: 0 freq: 0 min
105
100
95
2
4
6
8
beta, [CN] / Points @ x s

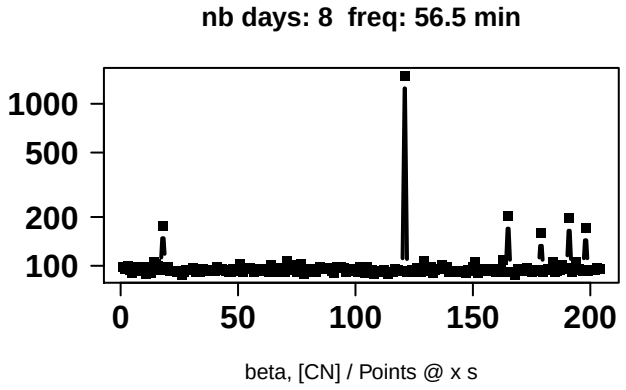

nb days: 0 freq: 0 min
0.202
0.201
0.200
0.199
0.198
0.197
0.196
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

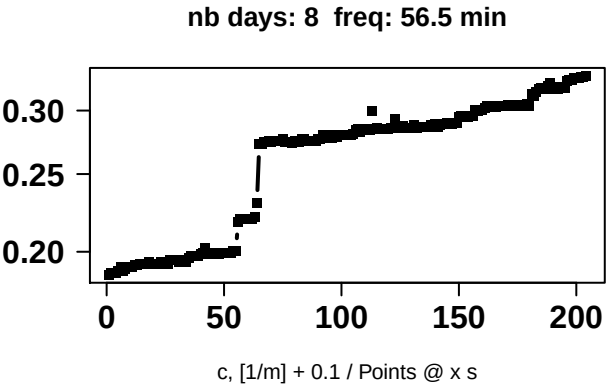

2013−03−03 19:19:23 2013−03−11 19:19:25
1040
1030
1020
1010
1000
0
100
300
500
Pressure in

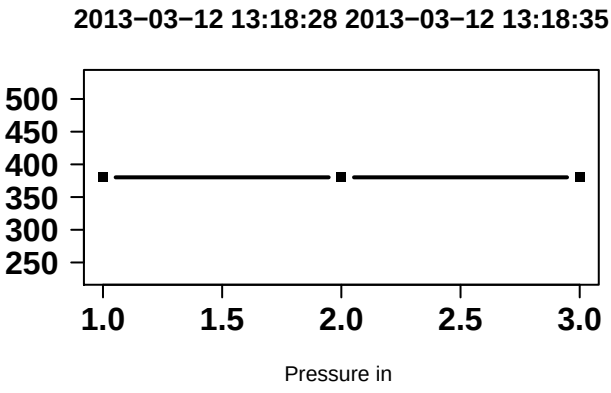

black 0.047 red 0.23
27.55
27.54
27.53
27.52
27.51
Seawater potential density anomaly
Seawater density − 1000
32.25
32.15
32.05
0
50
100
150
200

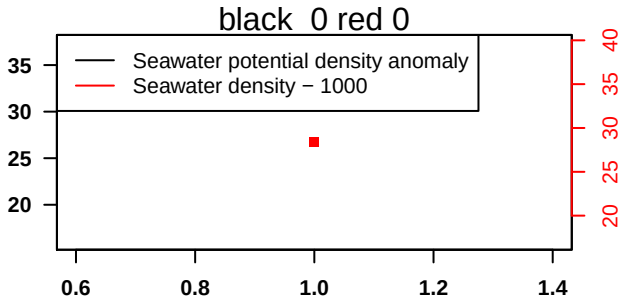

lovbio010b_017_00_06.txt
68
66
64
62
60
0
50
100
150
200
CDOM, [CN] / Points @ x s

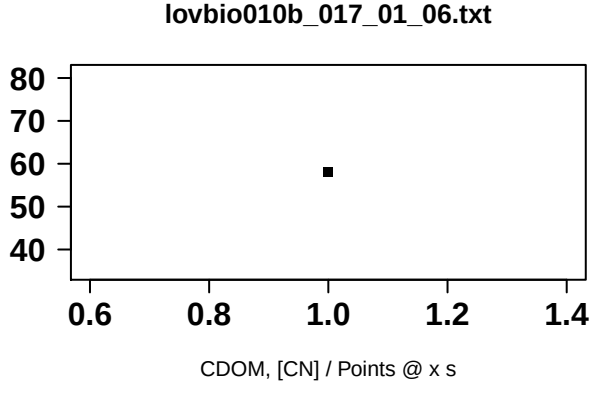

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

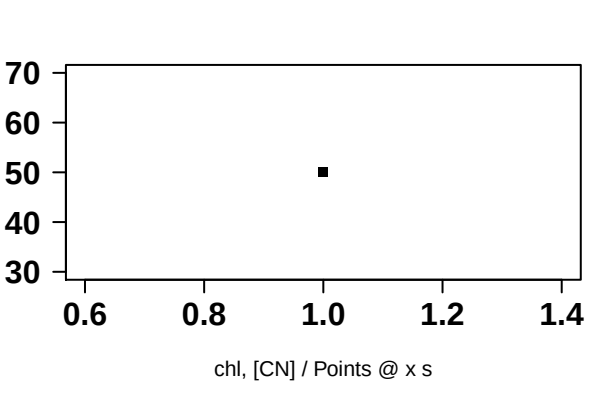

nb days: 8 freq: 56.5 min
1000
500
200
100
0
50
100
150
200
beta, [CN] / Points @ x s

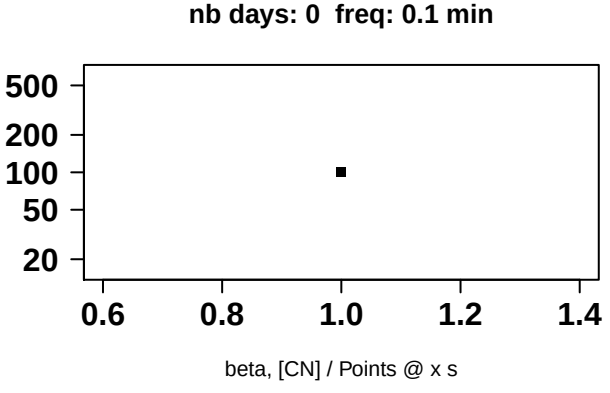

nb days: 8 freq: 56.5 min
0.30
0.25
0.20
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

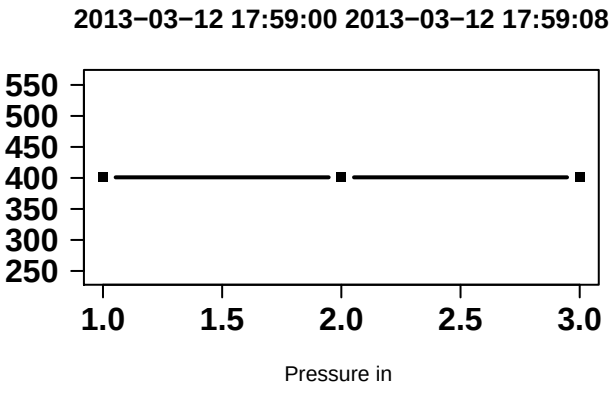

2013−03−12 13:18:28 2013−03−12 13:18:35
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

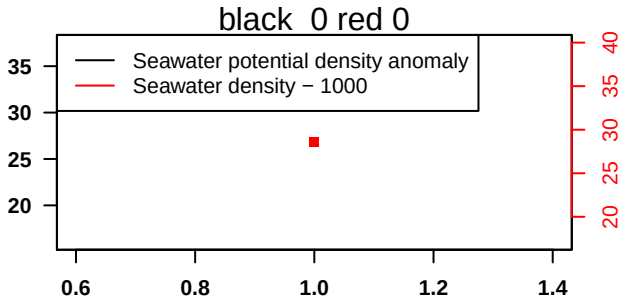

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

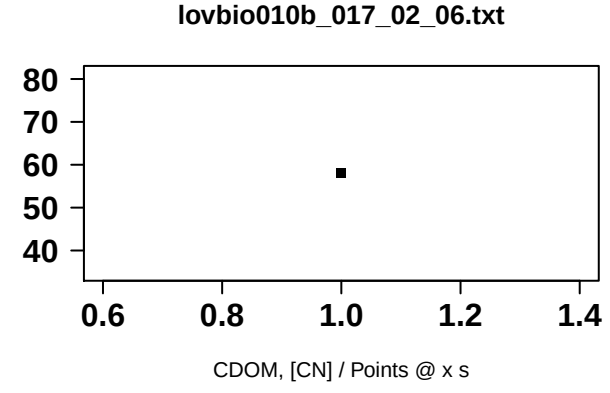

lovbio010b_017_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

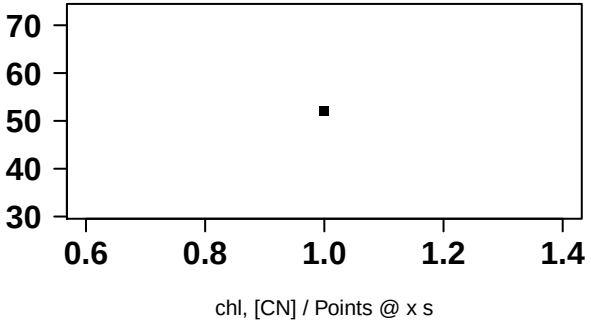

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

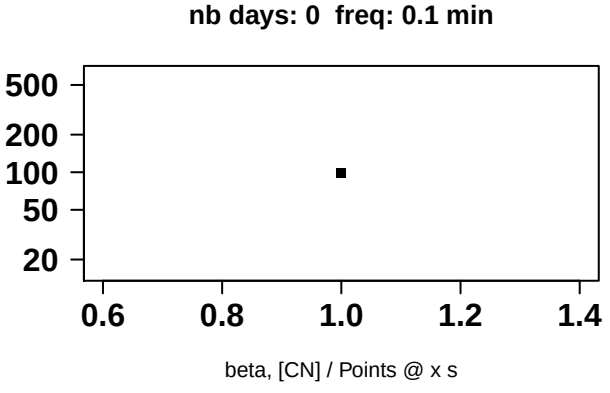

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

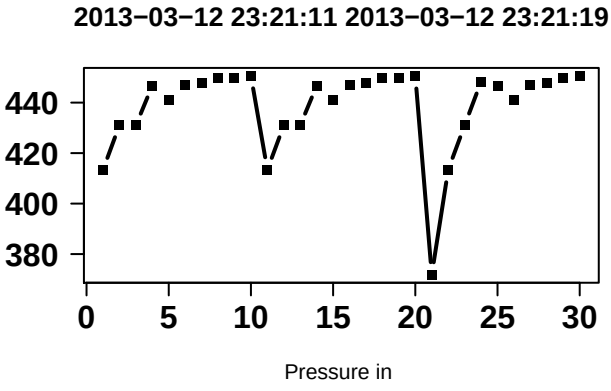

2013−03−12 17:59:00 2013−03−12 17:59:08
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

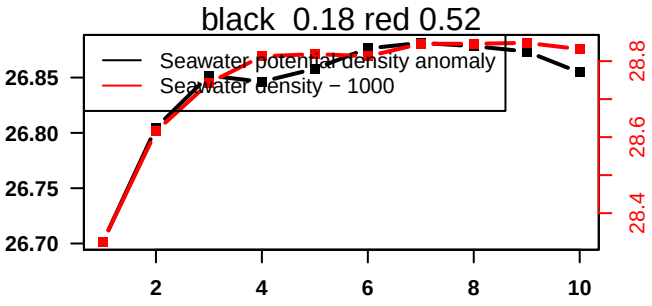

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

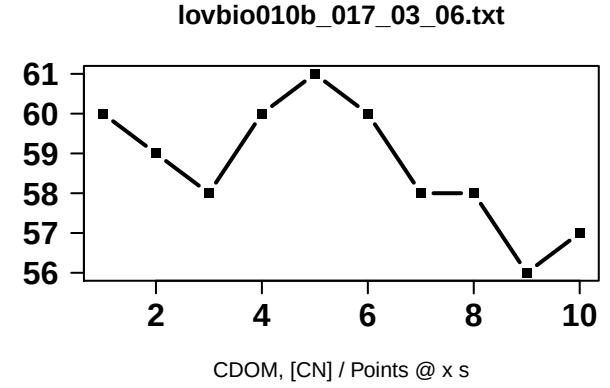

lovbio010b_017_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

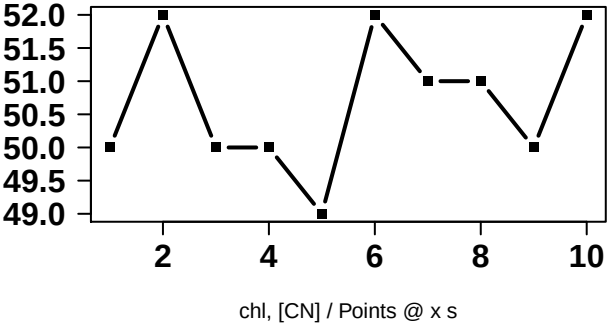

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

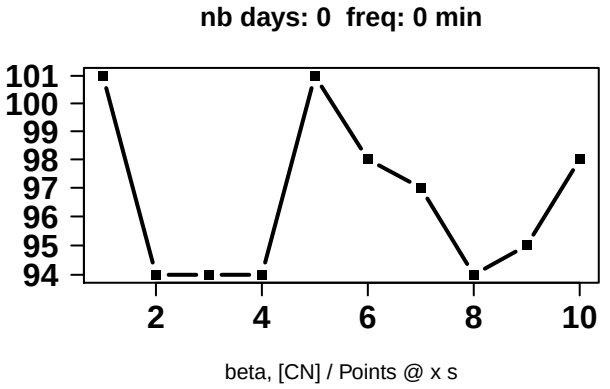

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

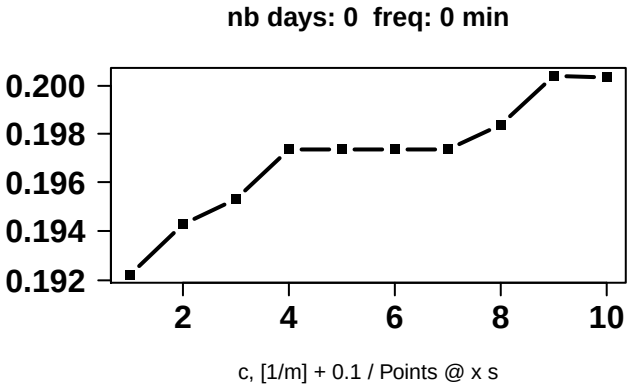

2013−03−12 23:21:11 2013−03−12 23:21:19
440
420
400
380
0
5
10
15
20
25
30
Pressure in

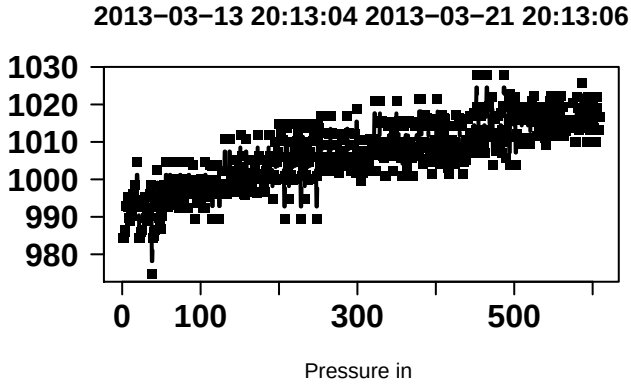

black 0.18 red 0.52
Seawater potential density anomaly
Seawater density − 1000
26.85
26.80
26.75
26.70
28.8
28.6
28.4
2
4
6
8
10

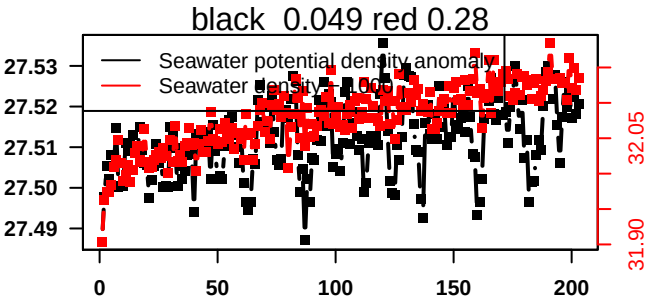

lovbio010b_017_03_06.txt
61
60
59
58
57
56
2
4
6
8
10
CDOM, [CN] / Points @ x s

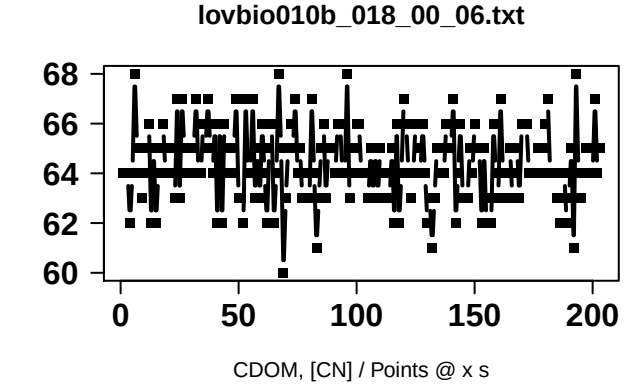

52.0
51.5
51.0
50.5
50.0
49.5
49.0
2
4
6
8
10
chl, [CN] / Points @ x s

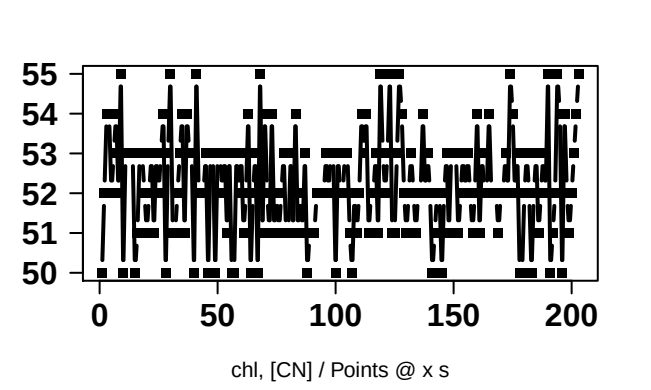

nb days: 0 freq: 0 min
101
100
99
98
97
96
95
94
2
4
6
8
10
beta, [CN] / Points @ x s

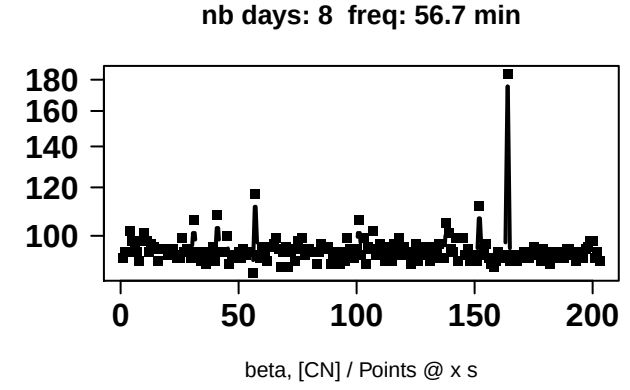

nb days: 0 freq: 0 min
0.200
0.198
0.196
0.194
0.192
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

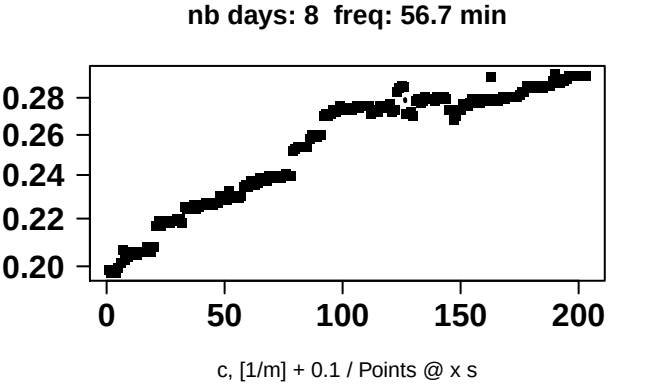

2013−03−13 20:13:04 2013−03−21 20:13:06
1030
1020
1010
1000
990
980
0
100
300
500
Pressure in

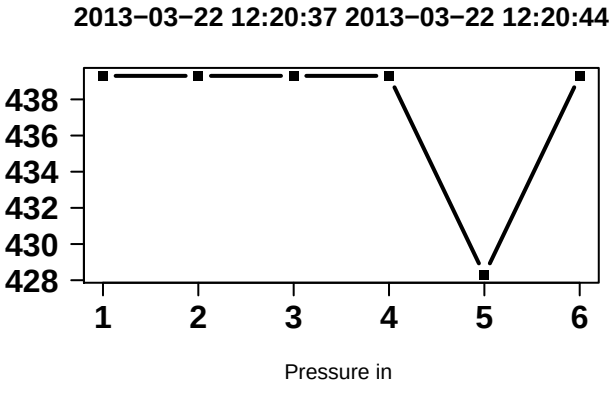

black 0.049 red 0.28
Seawater potential density anomaly
Seawater density + 1000
27.53
27.52
27.51
27.50
27.49
32.05
31.90
0
50
100
150
200

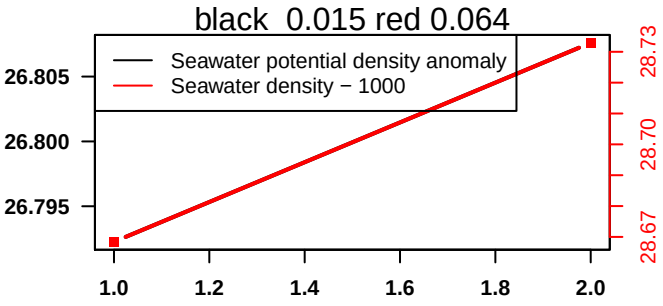

lovbio010b_018_00_06.txt
68
66
64
62
60
0
50
100
150
200
CDOM, [CN] / Points @ x s

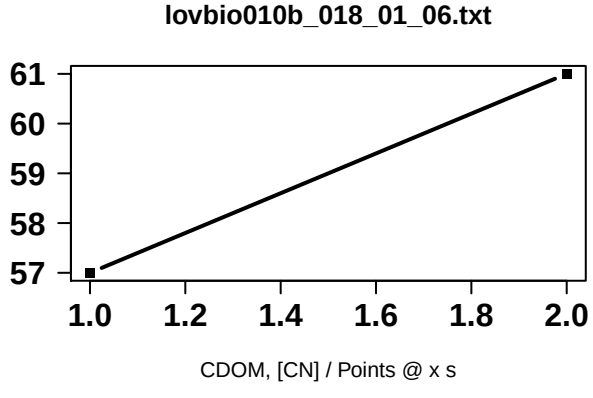

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

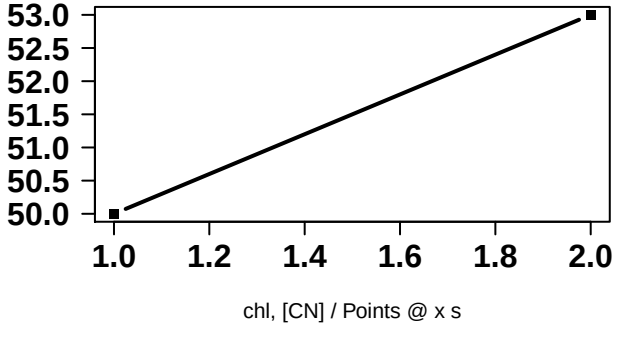

nb days: 8 freq: 56.7 min
180
160
140
120
100
0
50
100
150
200
beta, [CN] / Points @ x s

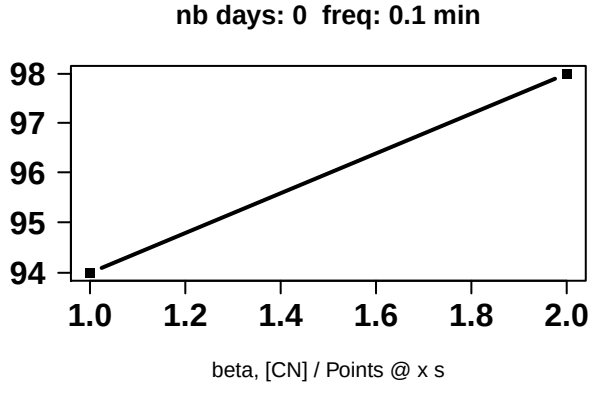

nb days: 8 freq: 56.7 min
0.28
0.26
0.24
0.22
0.20
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

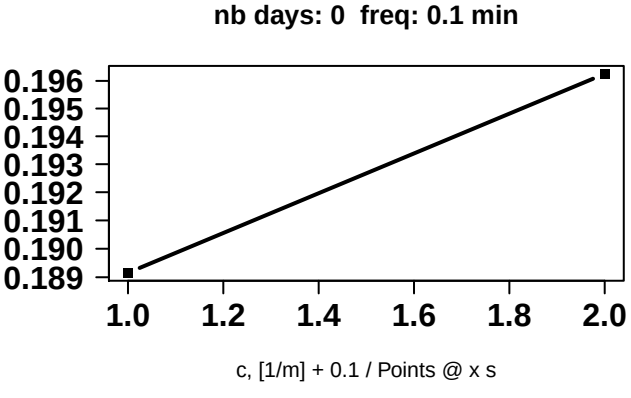

2013−03−22 12:20:37 2013−03−22 12:20:44
438
436
434
432
430
428
1
2
3
4
5
6
Pressure in

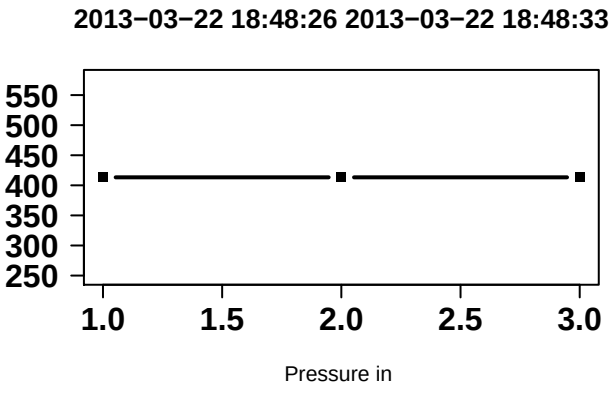

black 0.015 red 0.064
Seawater potential density anomaly
Seawater density − 1000
26.805
26.800
26.795
28.73
28.70
28.67
1.0
1.2
1.4
1.6
1.8
2.0

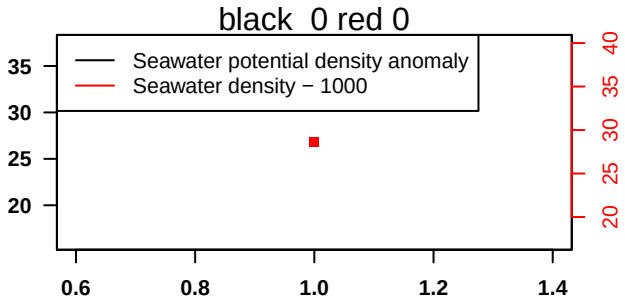

lovbio010b_018_01_06.txt
61
60
59
58
57
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

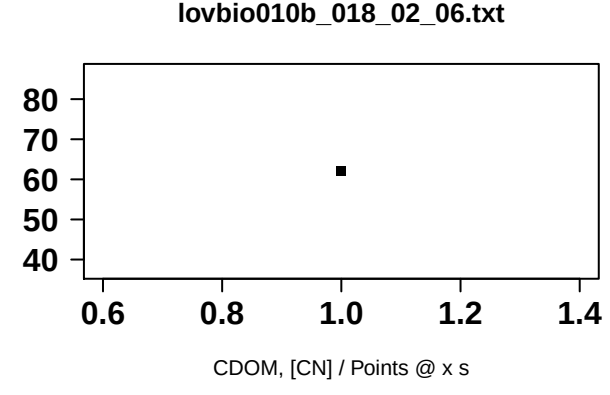

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

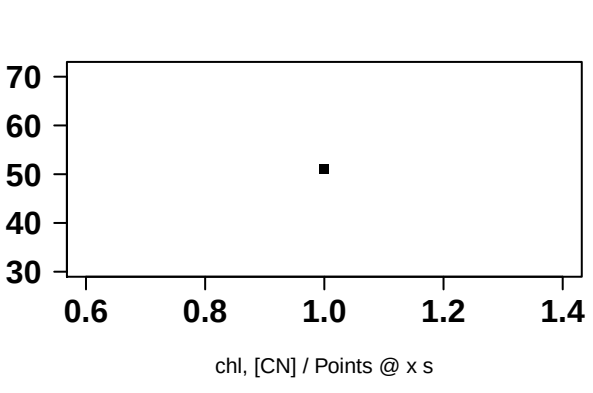

nb days: 0 freq: 0.1 min
98
97
96
95
94
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

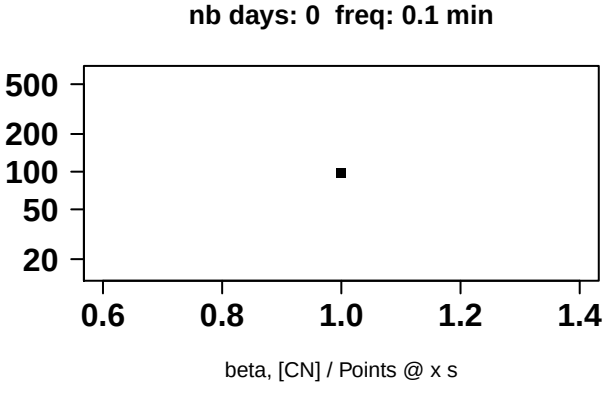

nb days: 0 freq: 0.1 min
0.196
0.195
0.194
0.193
0.192
0.191
0.190
0.189
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

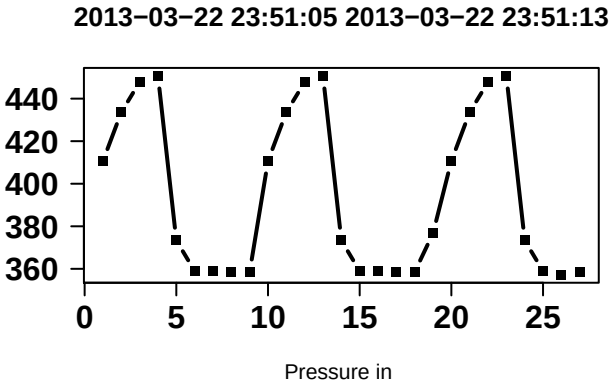

2013−03−22 18:48:26 2013−03−22 18:48:33
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

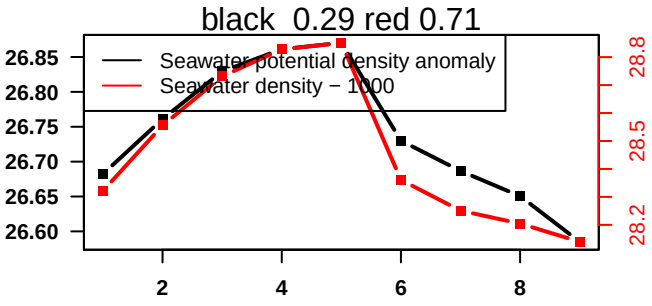

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

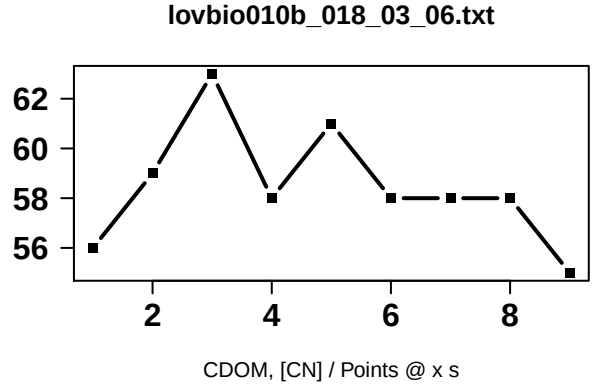

lovbio010b_018_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

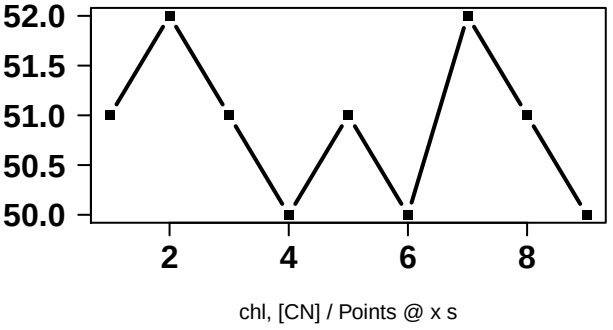

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

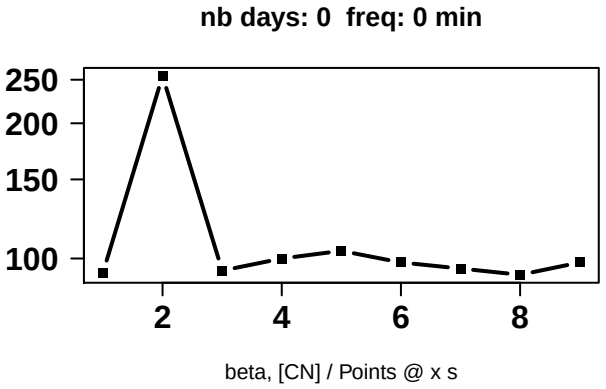

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

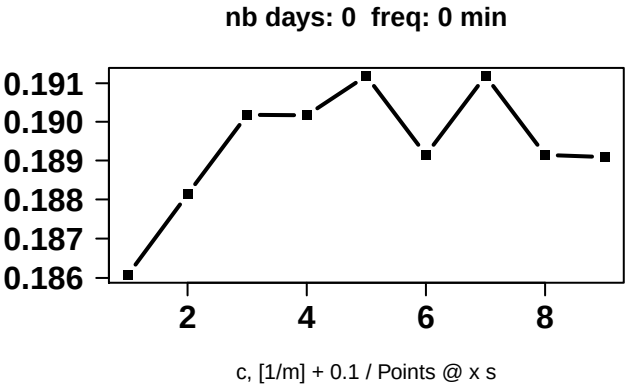

2013−03−22 23:51:05 2013−03−22 23:51:13
440
420
400
380
360
0
5
10
15
20
25
Pressure in

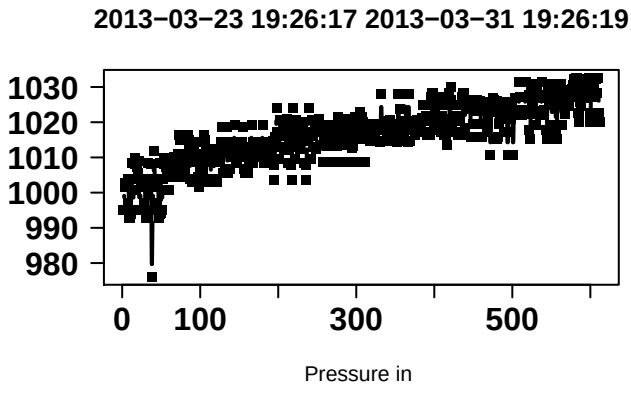

black 0.29 red 0.71
Seawater potential density anomaly
Seawater density − 1000
26.85
26.80
26.75
26.70
26.65
26.60
28.8
28.5
28.2
2
4
6
8

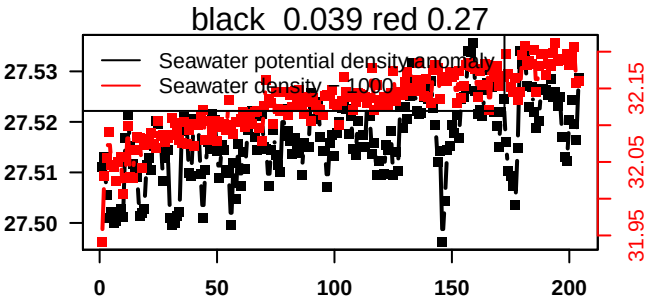

lovbio010b_018_03_06.txt
62
60
58
56
2
4
6
8
CDOM, [CN] / Points @ x s

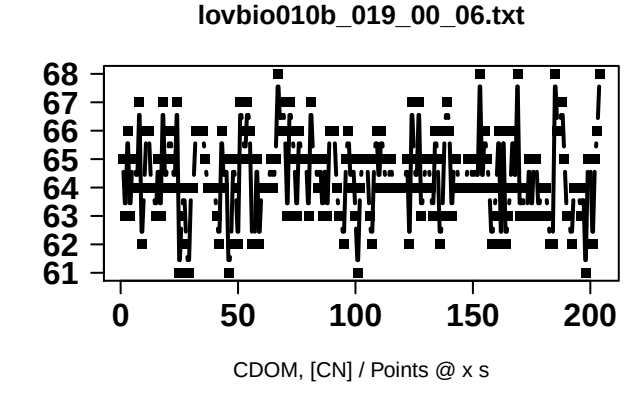

52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

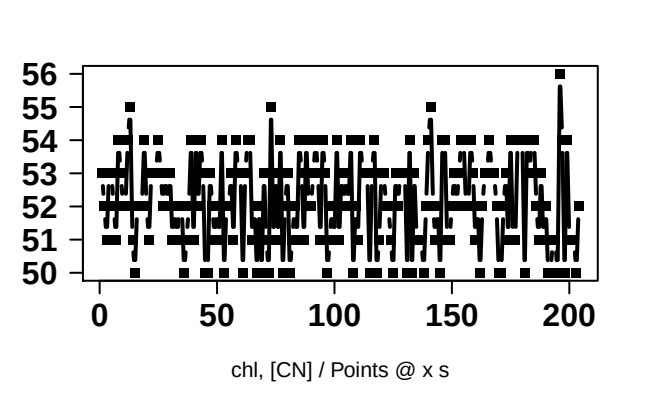

nb days: 0 freq: 0 min
250
200
150
100
2
4
6
8
beta, [CN] / Points @ x s

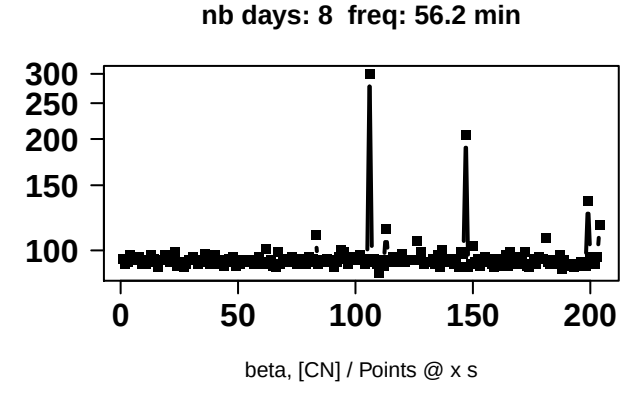

nb days: 0 freq: 0 min
0.191
0.190
0.189
0.188
0.187
0.186
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

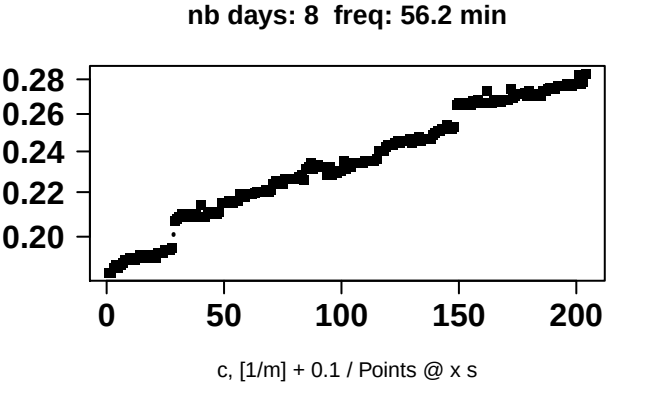

2013−03−23 19:26:17 2013−03−31 19:26:19
1030
1020
1010
1000
990
980
0
100
300
500
Pressure in

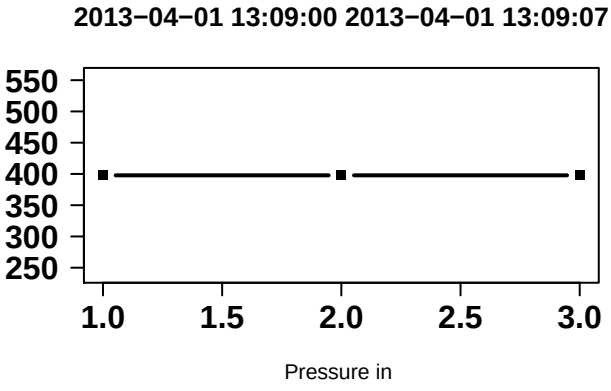

black 0.039 red 0.27
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
32.15
32.05
31.95
0
50
100
150
200

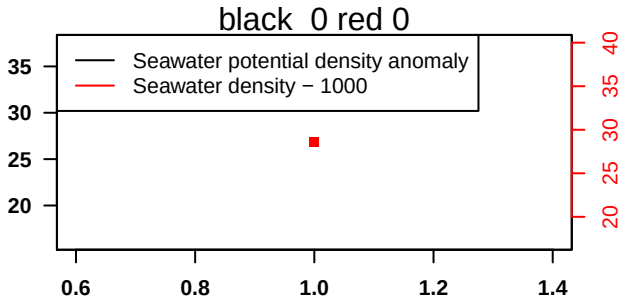

lovbio010b_019_00_06.txt
68
67
66
65
64
63
62
61
0
50
100
150
200
CDOM, [CN] / Points @ x s

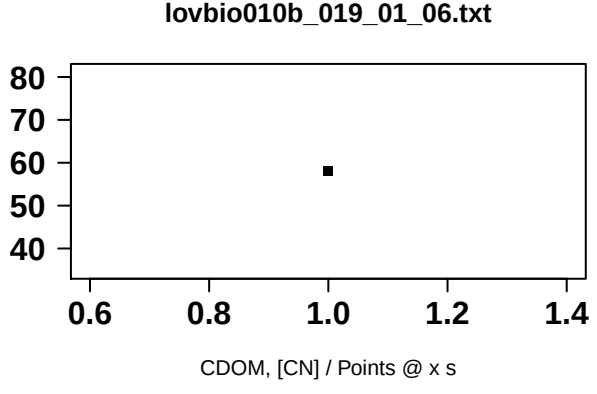

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

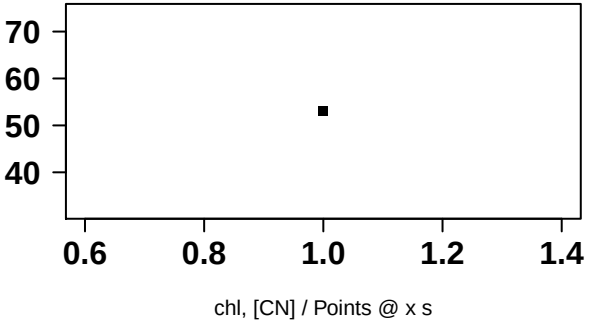

nb days: 8 freq: 56.2 min
300
250
200
150
100
0
50
100
150
200
beta, [CN] / Points @ x s

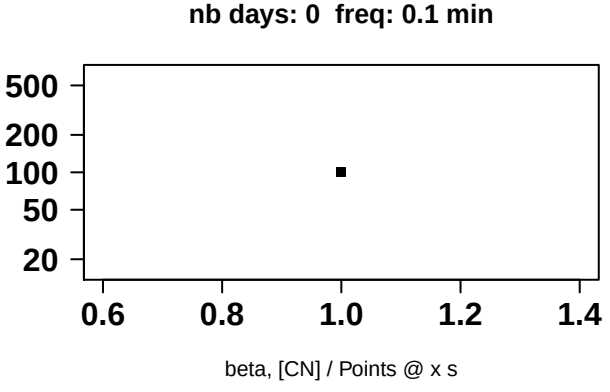

nb days: 8 freq: 56.2 min
0.28
0.26
0.24
0.22
0.20
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

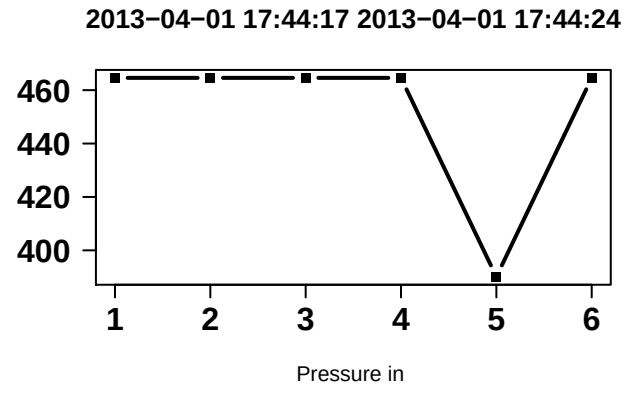

2013−04−01 13:09:00 2013−04−01 13:09:07
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

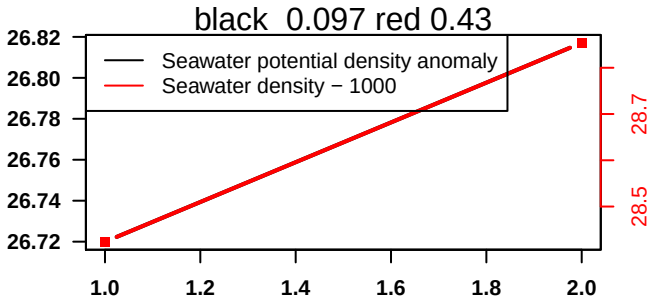

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

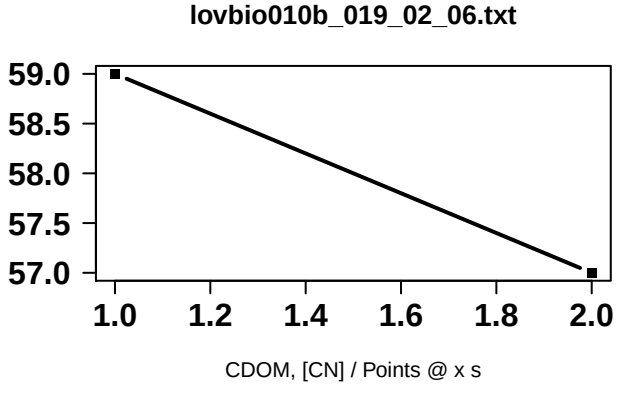

lovbio010b_019_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

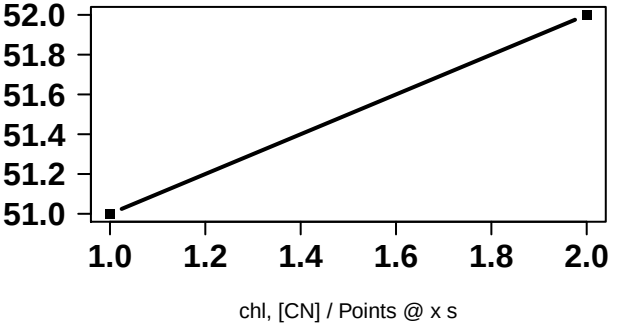

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

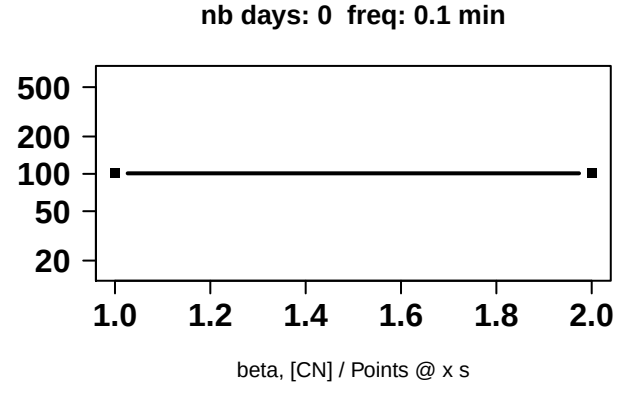

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

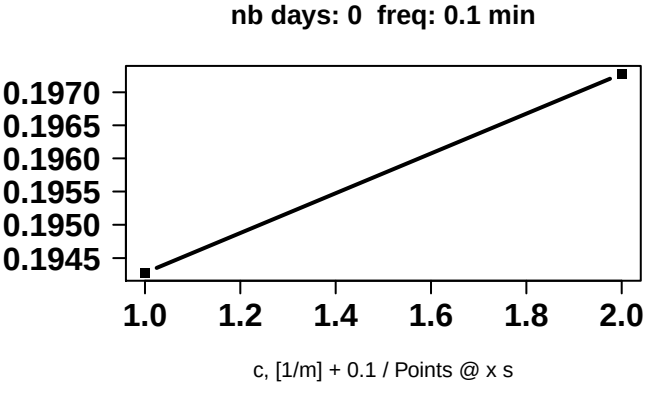

2013−04−01 17:44:17 2013−04−01 17:44:24
460
440
420
400
1
2
3
4
5
6
Pressure in

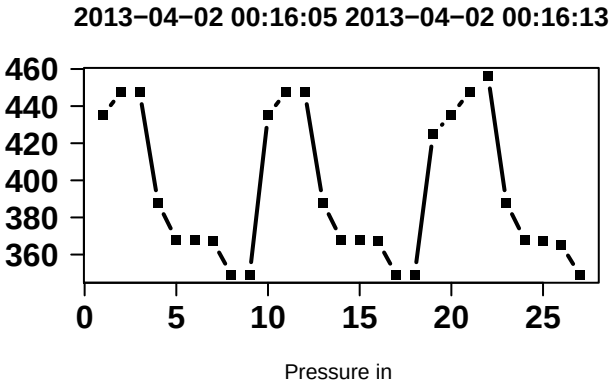

black 0.097 red 0.43
Seawater potential density anomaly
Seawater density − 1000
26.82
26.80
26.78
26.76
26.74
26.72
28.7
28.5
1.0
1.2
1.4
1.6
1.8
2.0

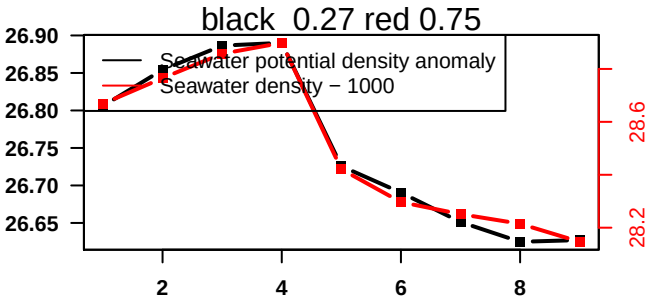

lovbio010b_019_02_06.txt
59.0
58.5
58.0
57.5
57.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

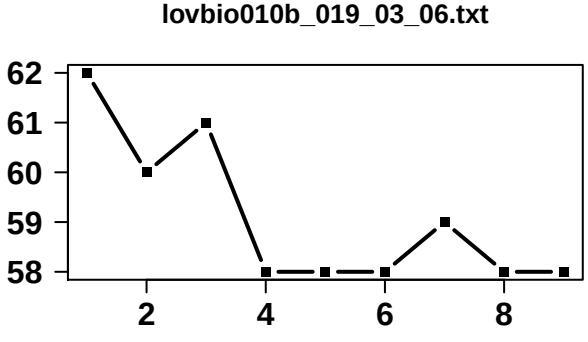

52.0
51.8
51.6
51.4
51.2
51.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

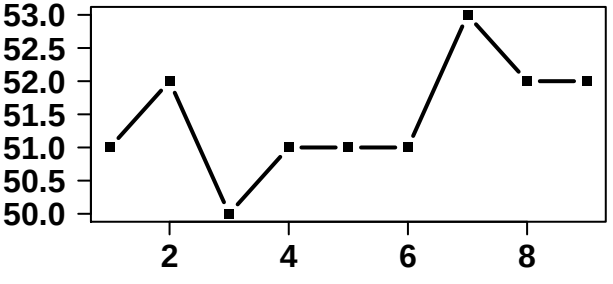

nb days: 0 freq: 0.1 min
500
200
100
50
20
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

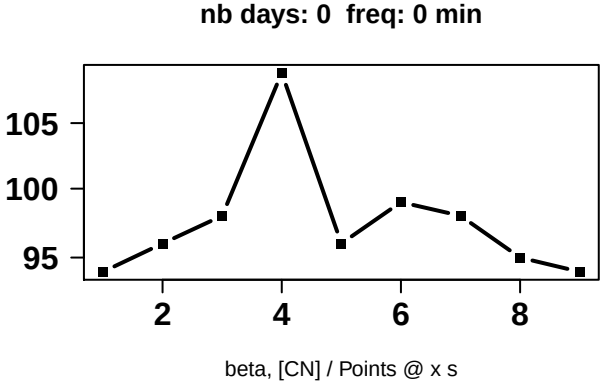

nb days: 0 freq: 0.1 min
0.1970
0.1965
0.1960
0.1955
0.1950
0.1945
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

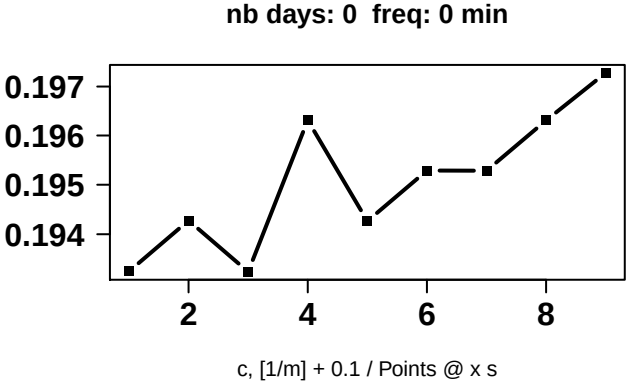

2013−04−02 00:16:05 2013−04−02 00:16:13
460
440
420
400
380
360
0
5
10
15
20
25
Pressure in

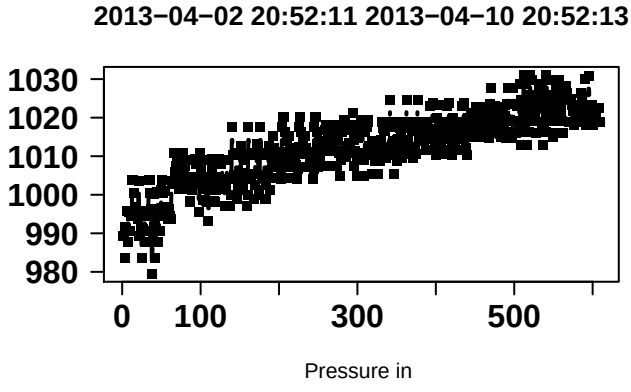

black 0.27 red 0.75
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
26.75
26.70
26.65
28.6
28.2
2
4
6
8

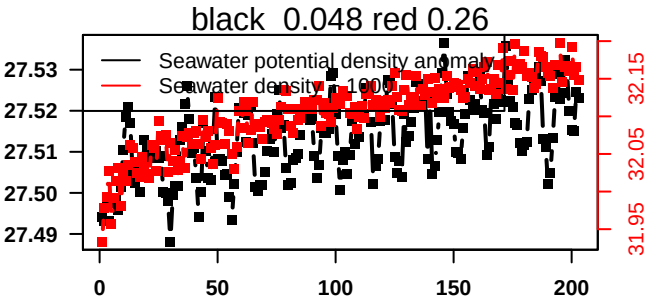

lovbio010b_019_03_06.txt
62
61
60
59
58
2
4
6
8
CDOM, [CN] / Points @ x s

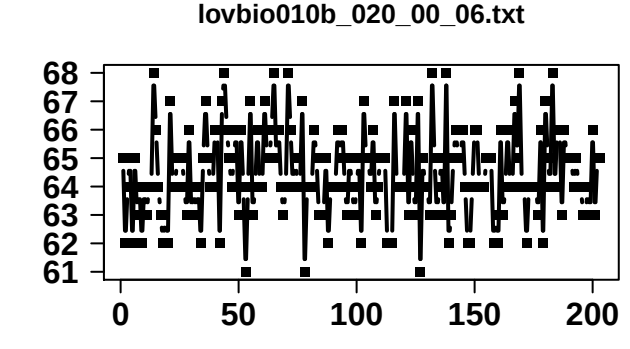

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

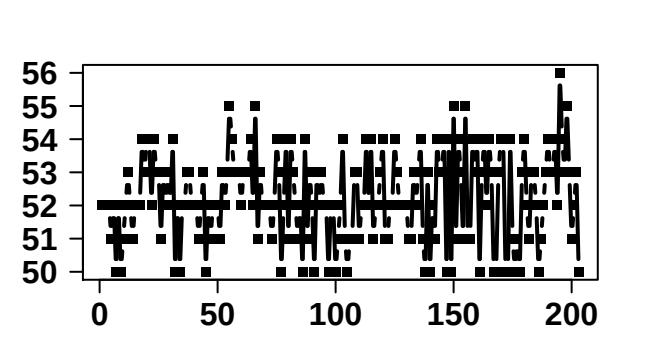

nb days: 0 freq: 0 min
105
100
95
2
4
6
8
beta, [CN] / Points @ x s

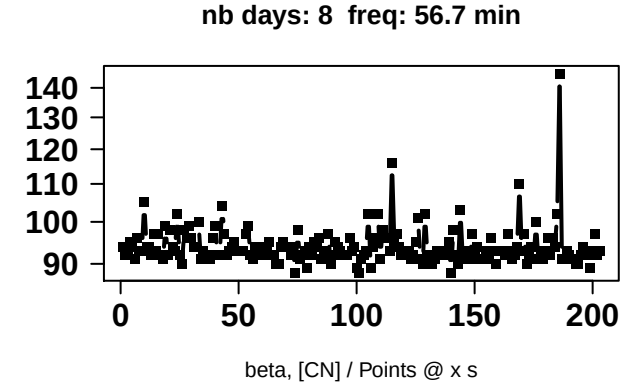

nb days: 0 freq: 0 min
0.197
0.196
0.195
0.194
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

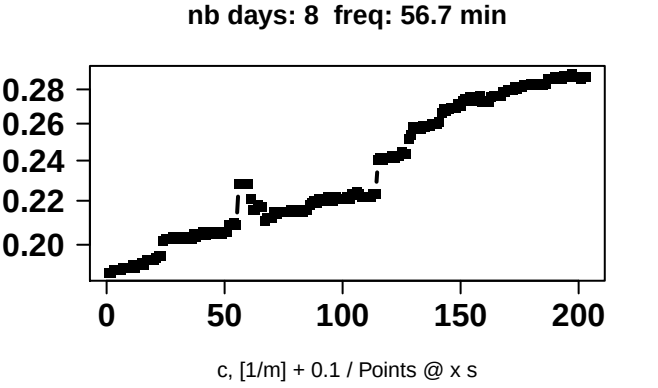

2013−04−02 20:52:11 2013−04−10 20:52:13
1030
1020
1010
1000
990
980
0
100
300
500
Pressure in

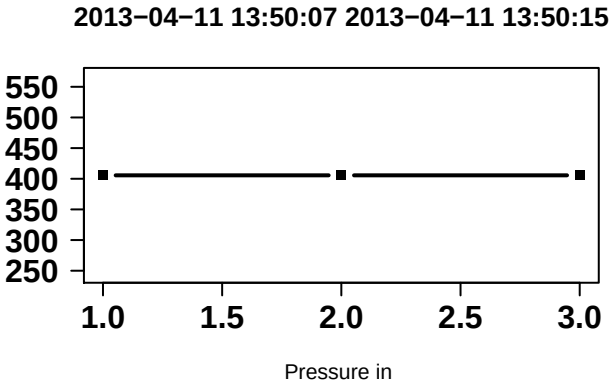

black 0.048 red 0.26
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
32.15
32.05
31.95
0
50
100
150
200

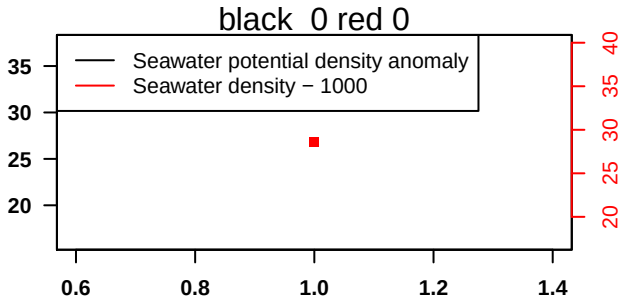

lovbio010b_020_00_06.txt
68
67
66
65
64
63
62
61
0
50
100
150
200
CDOM, [CN] / Points @ x s

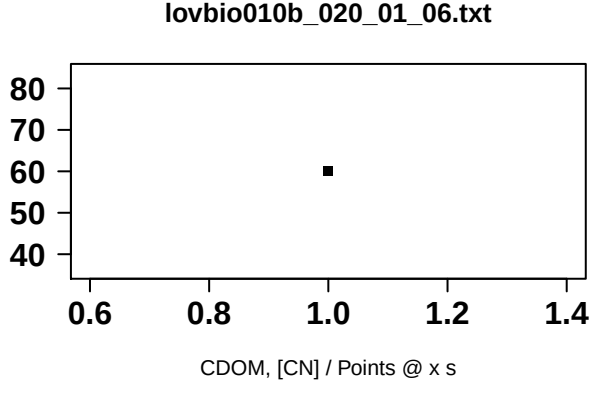

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

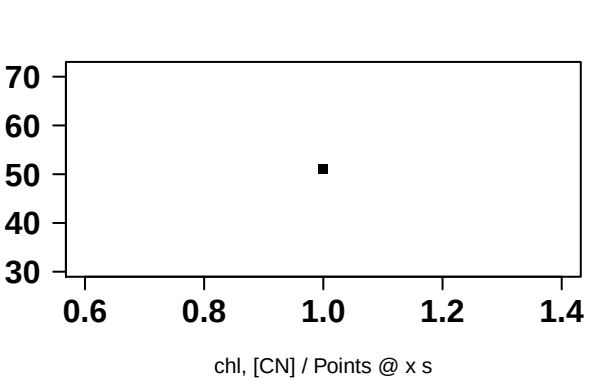

nb days: 8 freq: 56.7 min
140
130
120
110
100
90
0
50
100
150
200
beta, [CN] / Points @ x s

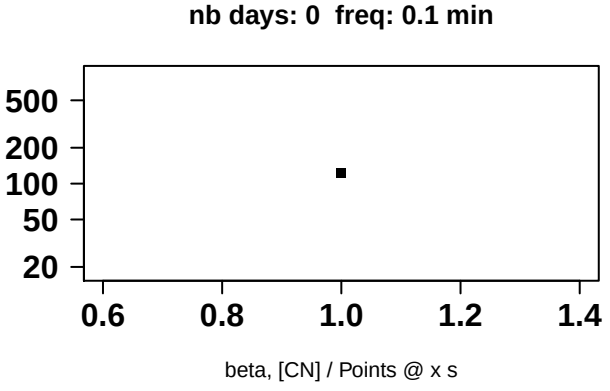

nb days: 8 freq: 56.7 min
0.28
0.26
0.24
0.22
0.20
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

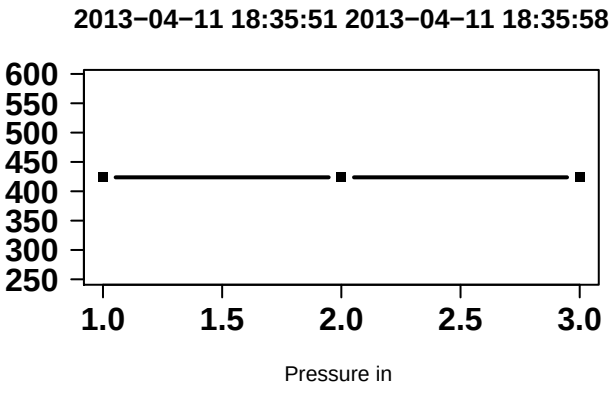

2013−04−11 13:50:07 2013−04−11 13:50:15
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

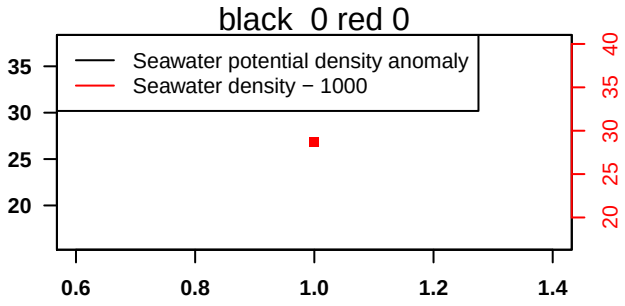

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

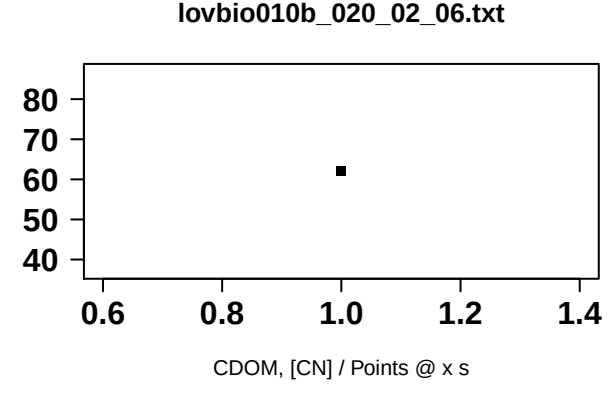

lovbio010b_020_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

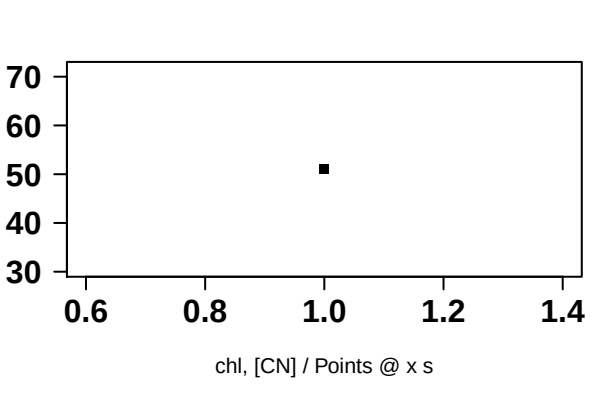

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

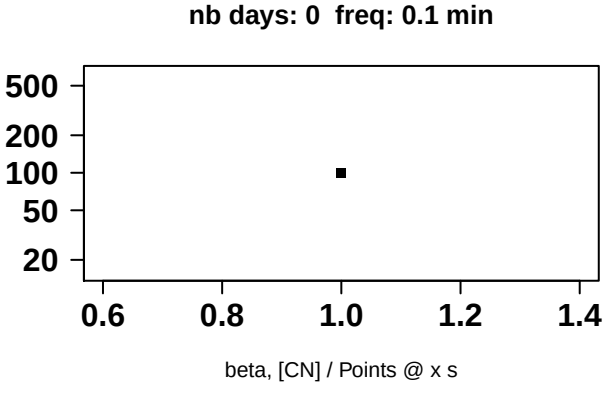

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

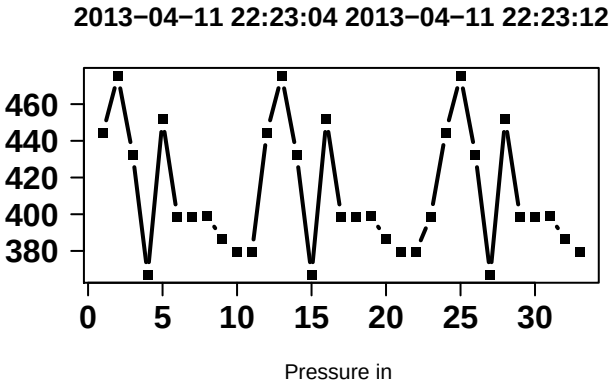

2013−04−11 18:35:51 2013−04−11 18:35:58
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

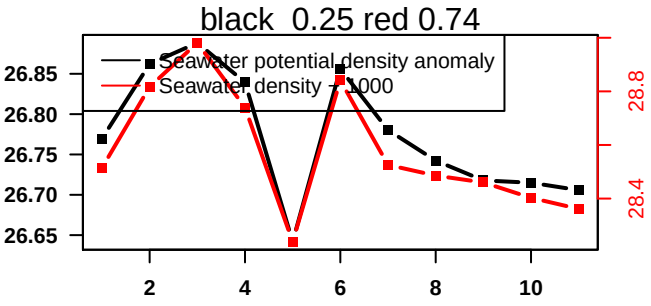

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

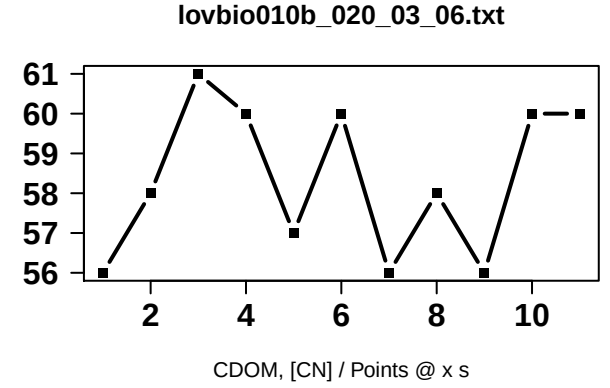

lovbio010b_020_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

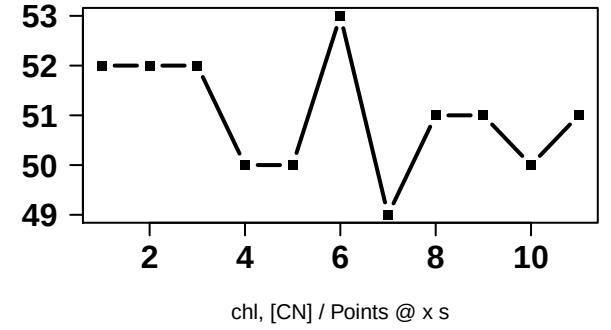

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

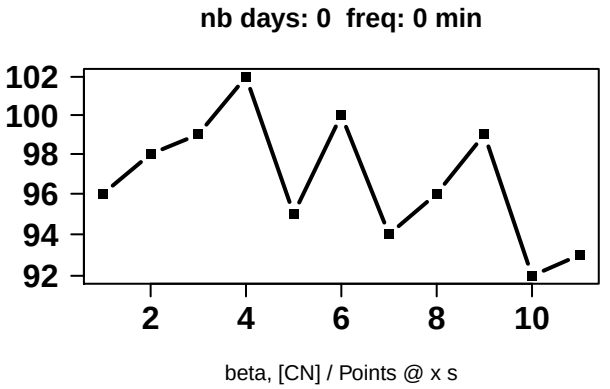

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

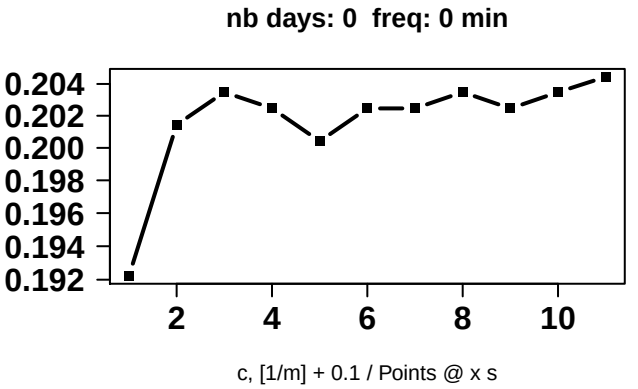

2013−04−11 22:23:04 2013−04−11 22:23:12
460
440
420
400
380
0
5
10
15
20
25
30
Pressure in

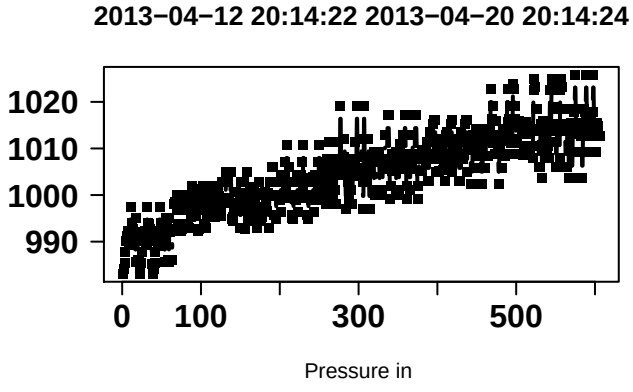

black 0.25 red 0.74
Seawater potential density anomaly
Seawater density − 1000
26.85
26.80
26.75
26.70
26.65
28.8
28.4
2
4
6
8
10

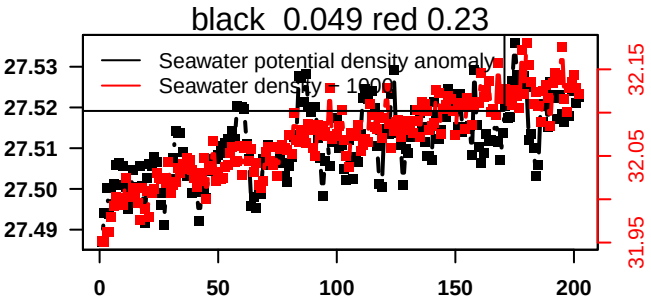

lovbio010b_020_03_06.txt
61
60
59
58
57
56
2
4
6
8
10
CDOM, [CN] / Points @ x s

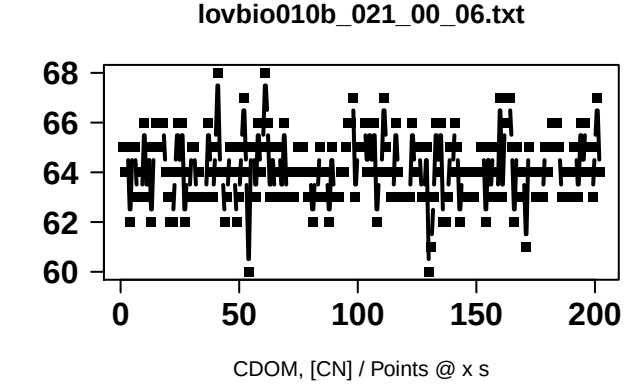

53
52
51
50
49
2
4
6
8
10
chl, [CN] / Points @ x s

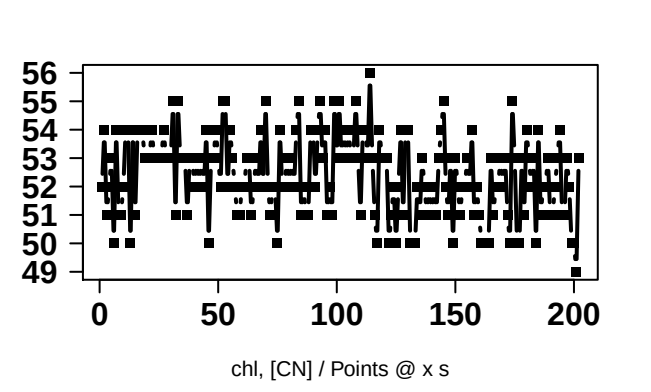

nb days: 0 freq: 0 min
102
100
98
96
94
92
2
4
6
8
10
beta, [CN] / Points @ x s

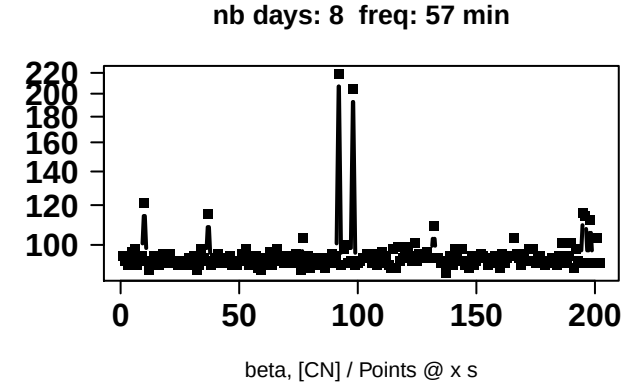

nb days: 0 freq: 0 min
0.204
0.202
0.200
0.198
0.196
0.194
0.192
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

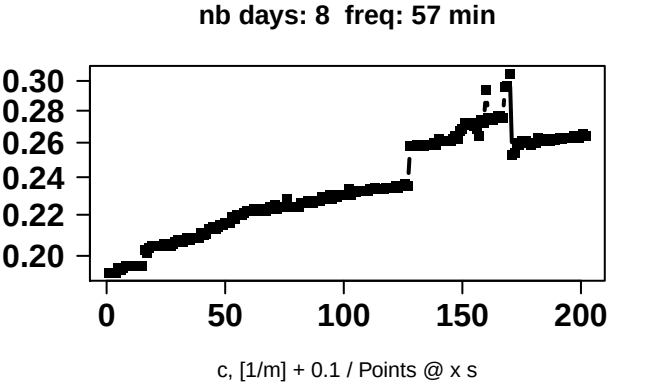

2013−04−12 20:14:22 2013−04−20 20:14:24
1020
1010
1000
990
0
100
300
500
Pressure in

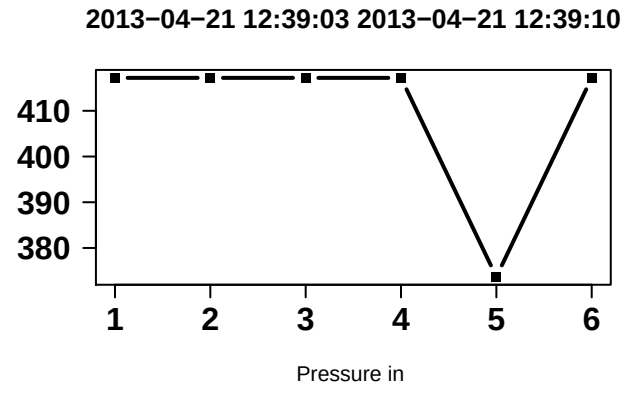

black 0.049 red 0.23
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
32.15
32.05
31.95
0
50
100
150
200

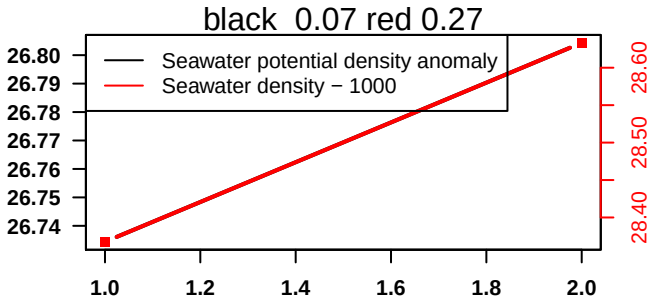

lovbio010b_021_00_06.txt
68
66
64
62
60
0
50
100
150
200
CDOM, [CN] / Points @ x s

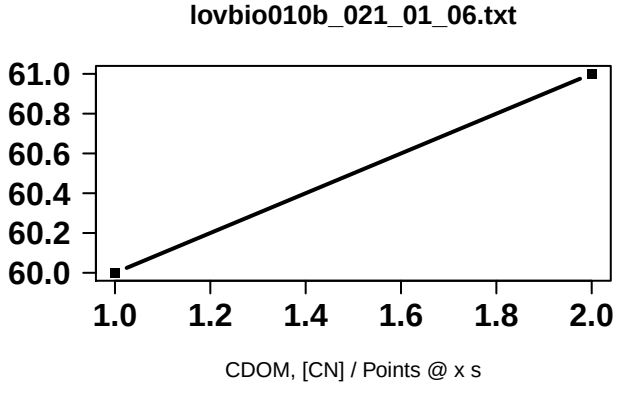

56
55
54
53
52
51
50
49
0
50
100
150
200
chl, [CN] / Points @ x s

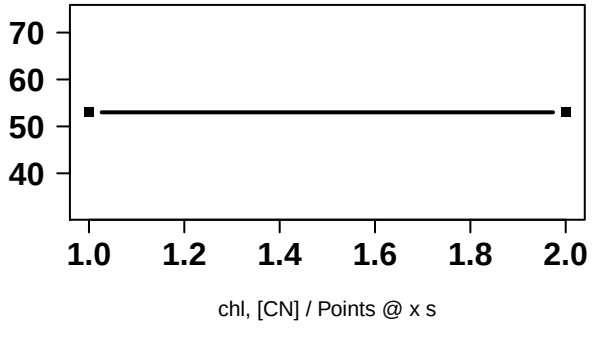

nb days: 8 freq: 57 min
220
200
180
160
140
120
100
0
50
100
150
200
beta, [CN] / Points @ x s

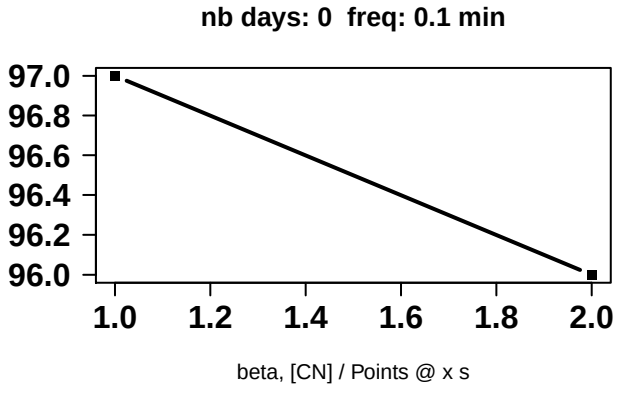

nb days: 8 freq: 57 min
0.30
0.28
0.26
0.24
0.22
0.20
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

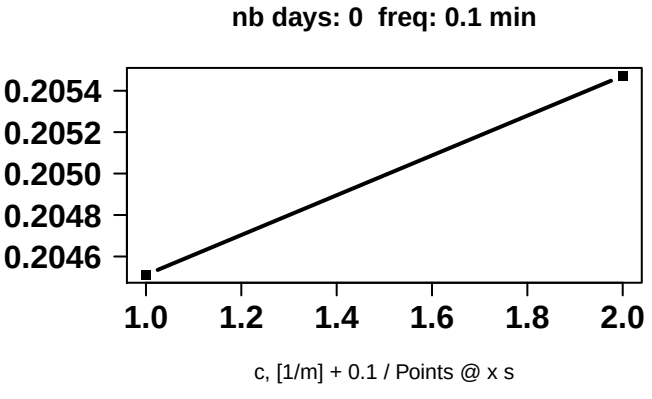

2013−04−21 12:39:03 2013−04−21 12:39:10
410
400
390
380
1
2
3
4
5
6
Pressure in

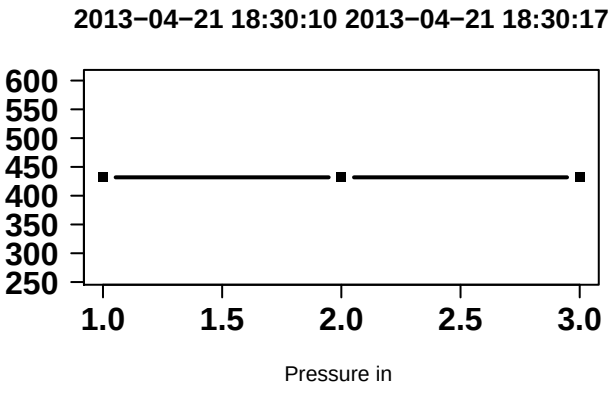

black 0.07 red 0.27
Seawater potential density anomaly
Seawater density − 1000
26.80
26.79
26.78
26.77
26.76
26.75
26.74
28.60
28.50
28.40
1.0
1.2
1.4
1.6
1.8
2.0

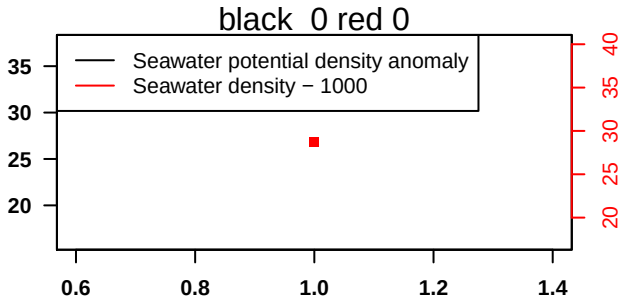

lovbio010b_021_01_06.txt
61.0
60.8
60.6
60.4
60.2
60.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

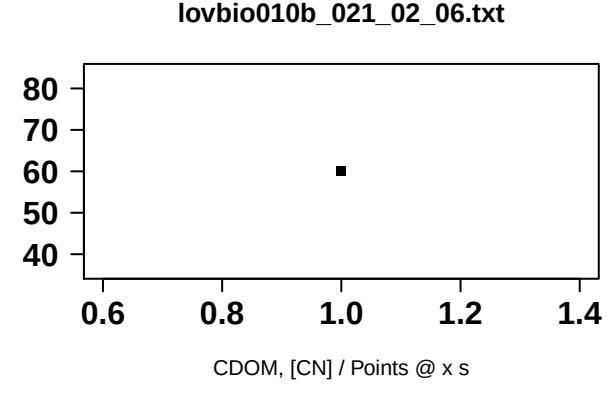

70
60
50
40
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

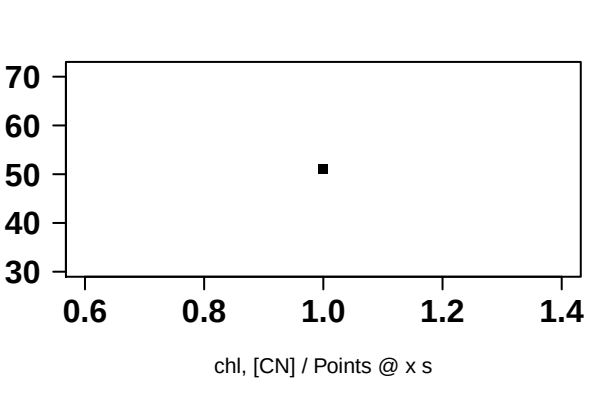

nb days: 0 freq: 0.1 min
97.0
96.8
96.6
96.4
96.2
96.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

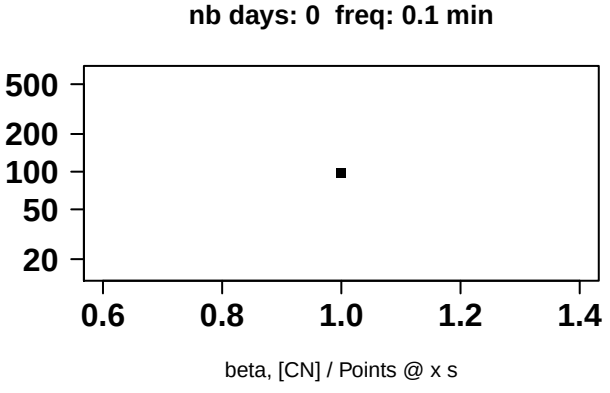

nb days: 0 freq: 0.1 min
0.2054
0.2052
0.2050
0.2048
0.2046
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

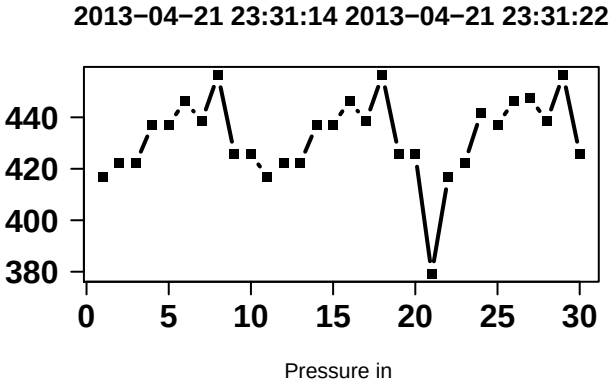

2013−04−21 18:30:10 2013−04−21 18:30:17
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

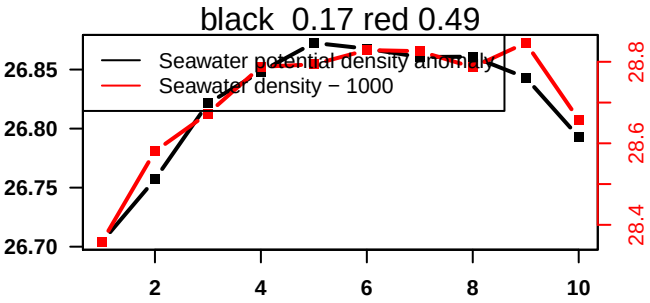

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

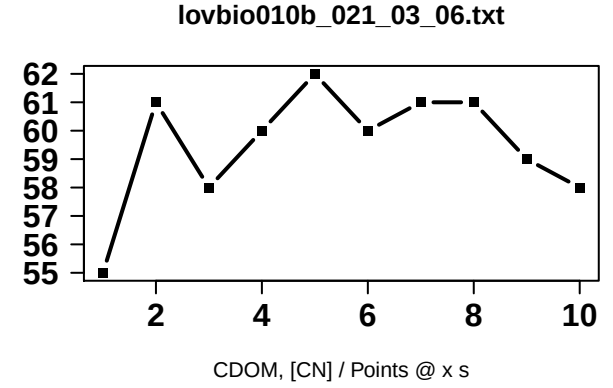

lovbio010b_021_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

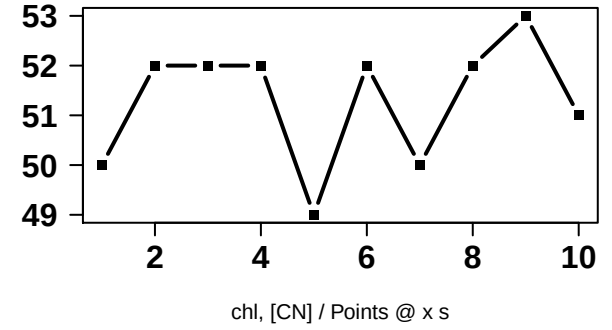

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

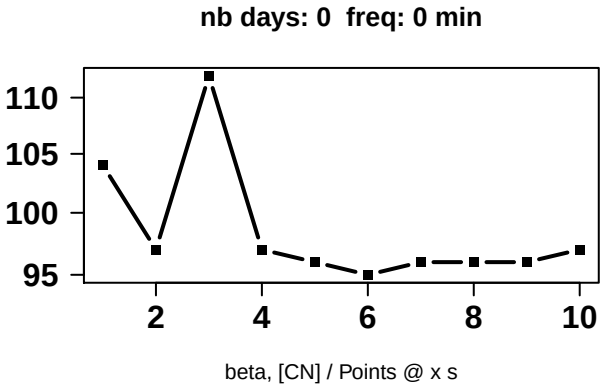

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

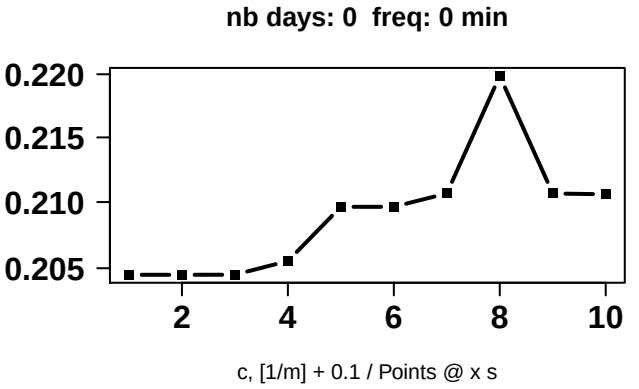

2013−04−21 23:31:14 2013−04−21 23:31:22
440
420
400
380
0
5
10
15
20
25
30
Pressure in

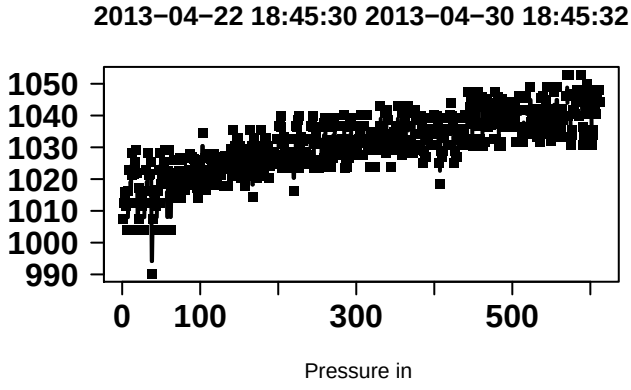

black 0.17 red 0.49
Seawater potential density anomaly
Seawater density − 1000
26.85
26.80
26.75
26.70
28.8
28.6
28.4
2
4
6
8
10

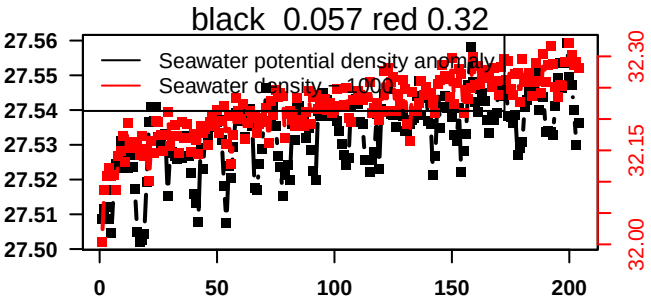

lovbio010b_021_03_06.txt
62
61
60
59
58
57
56
55
2
4
6
8
10
CDOM, [CN] / Points @ x s

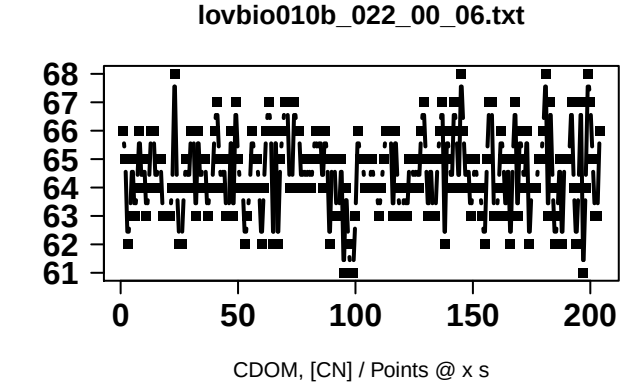

53
52
51
50
49
2
4
6
8
10
chl, [CN] / Points @ x s

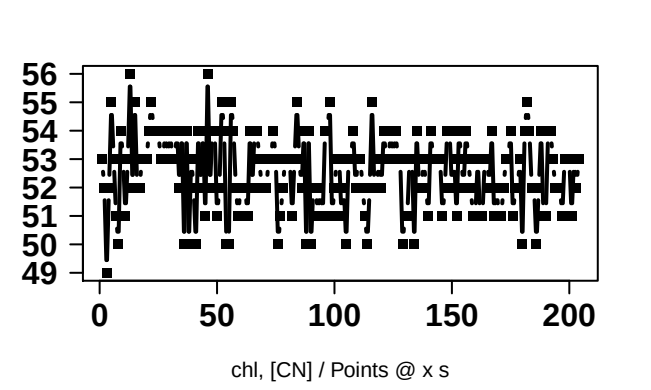

nb days: 0 freq: 0 min
110
105
100
95
2
4
6
8
10
beta, [CN] / Points @ x s

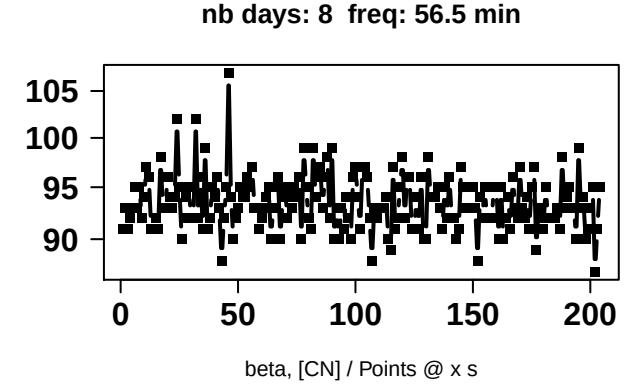

nb days: 0 freq: 0 min
0.220
0.215
0.210
0.205
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

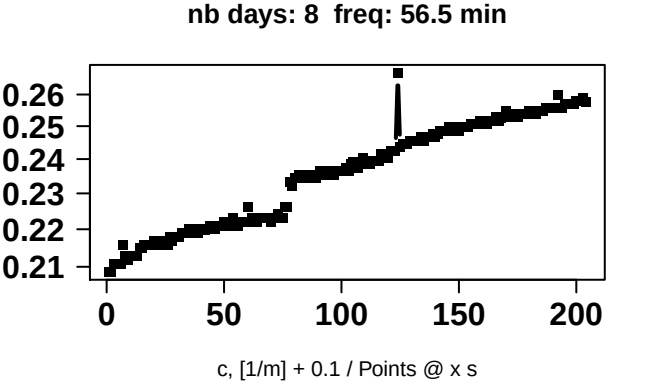

2013−04−22 18:45:30 2013−04−30 18:45:32
1050
1040
1030
1020
1010
1000
990
0
100
300
500
Pressure in

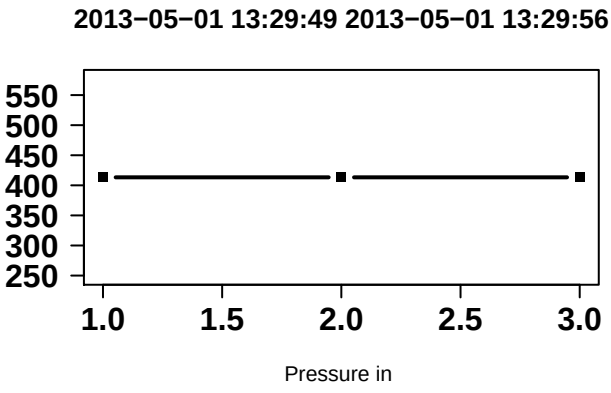

black 0.057 red 0.32
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
27.51
27.50
32.30
32.15
32.00
0
50
100
150
200

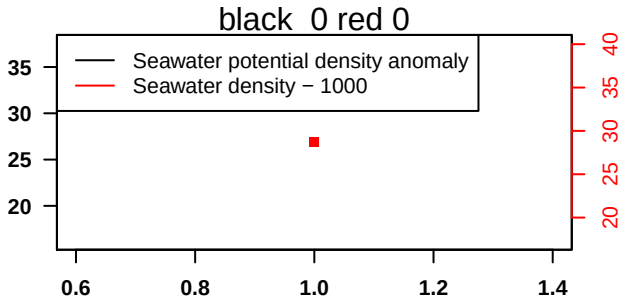

lovbio010b_022_00_06.txt
68
67
66
65
64
63
62
61
0
50
100
150
200
CDOM, [CN] / Points @ x s

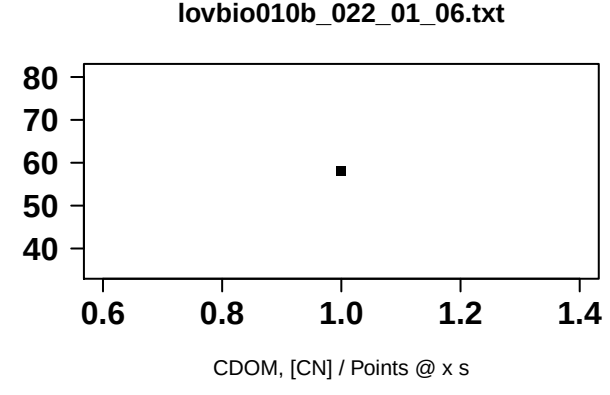

56
55
54
53
52
51
50
49
0
50
100
150
200
chl, [CN] / Points @ x s

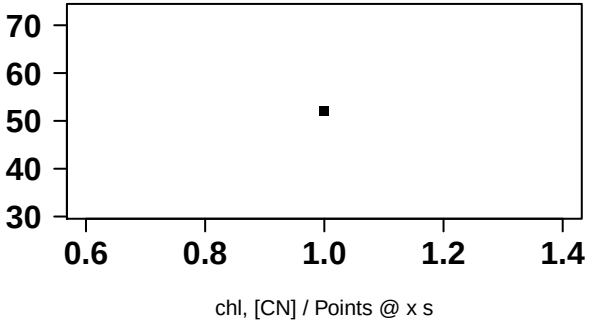

nb days: 8 freq: 56.5 min
105
100
95
90
0
50
100
150
200
beta, [CN] / Points @ x s

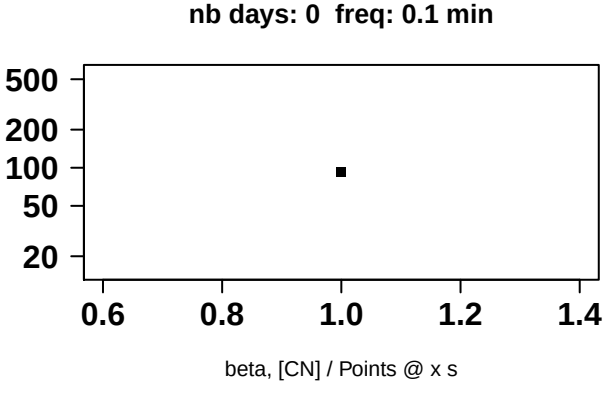

nb days: 8 freq: 56.5 min
0.26
0.25
0.24
0.23
0.22
0.21
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

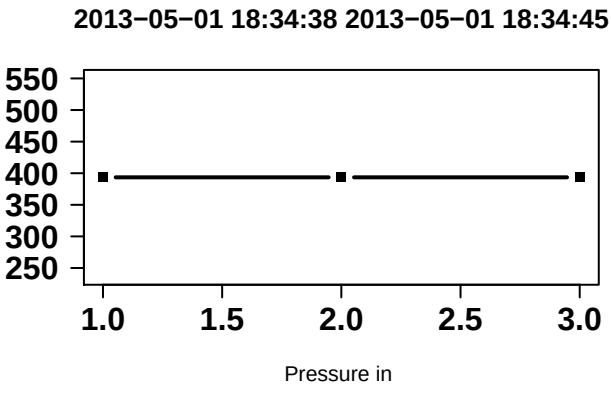

2013−05−01 13:29:49 2013−05−01 13:29:56
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

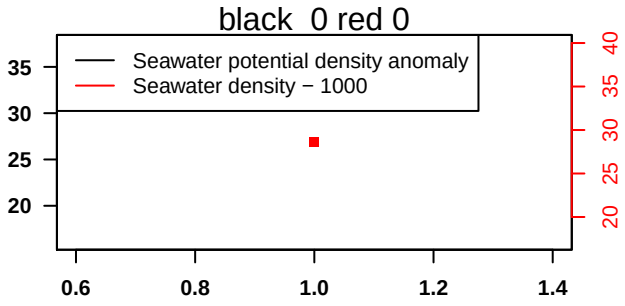

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

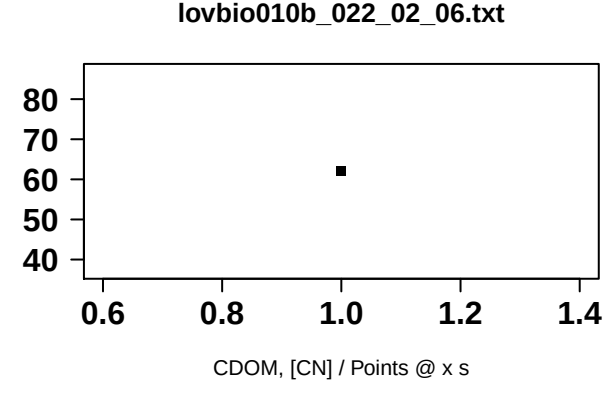

lovbio010b_022_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

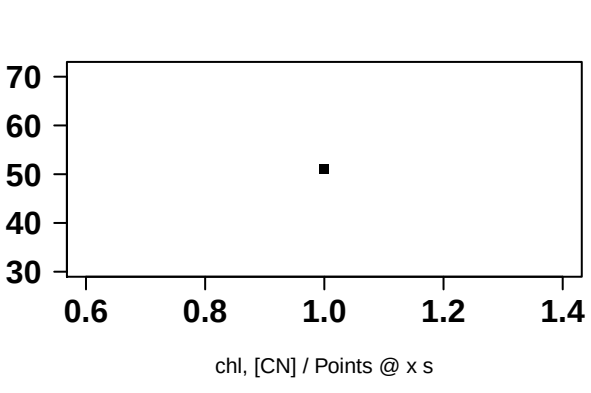

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

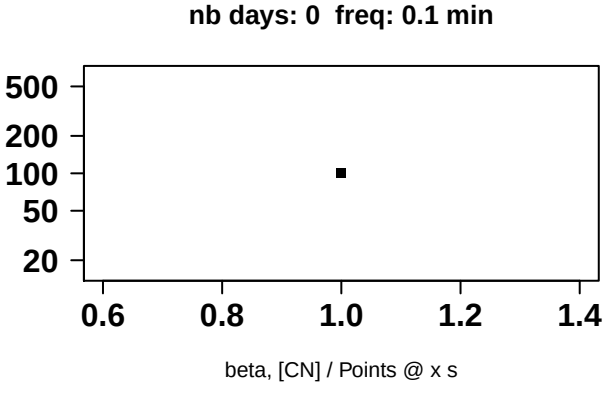

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

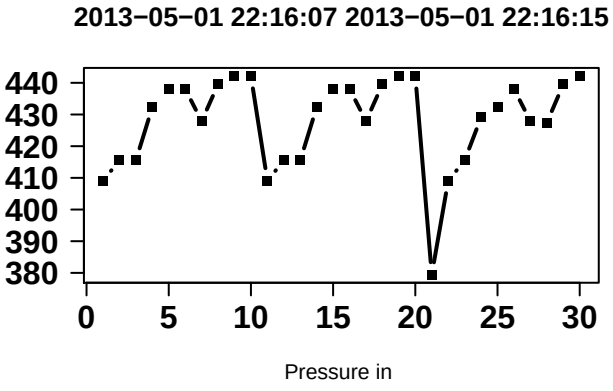

2013−05−01 18:34:38 2013−05−01 18:34:45
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

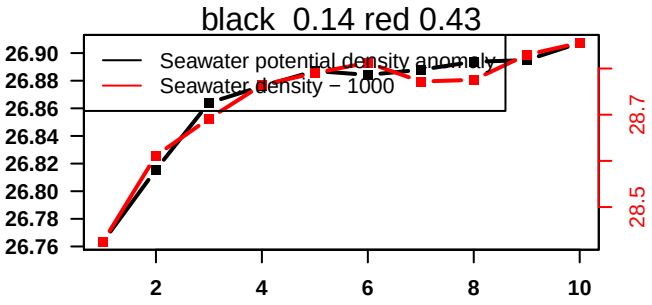

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

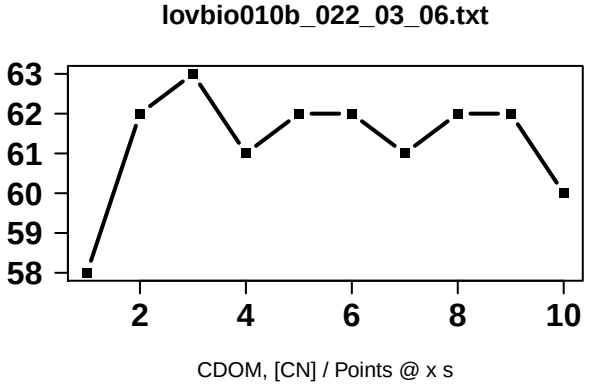

lovbio010b_022_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

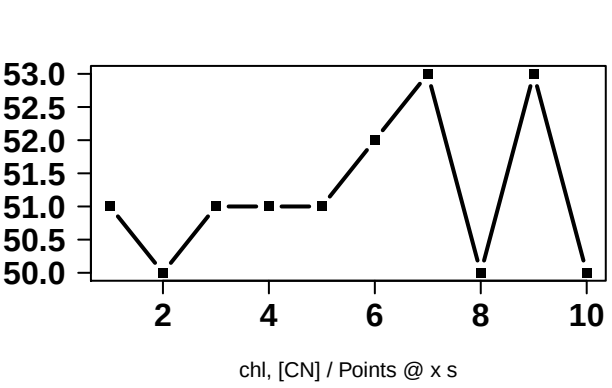

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

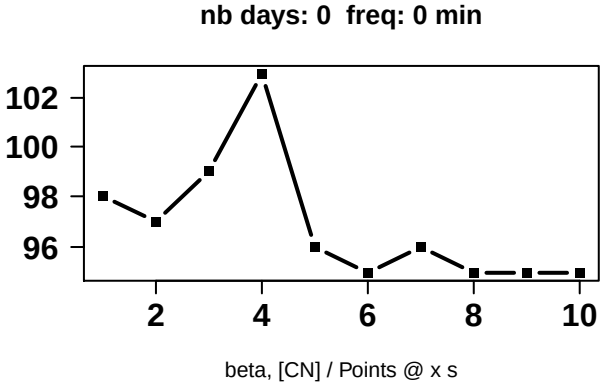

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

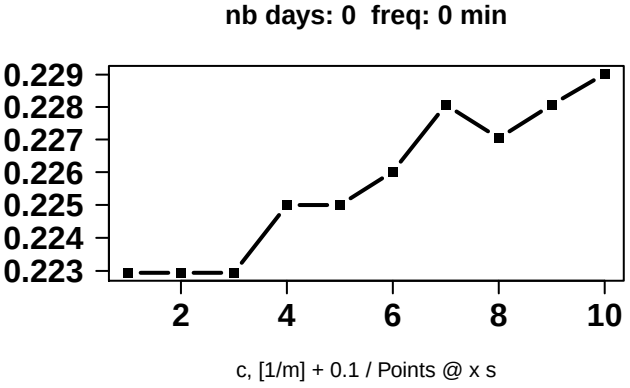

2013−05−01 22:16:07 2013−05−01 22:16:15
440
430
420
410
400
390
380
0
5
10
15
20
25
30
Pressure in

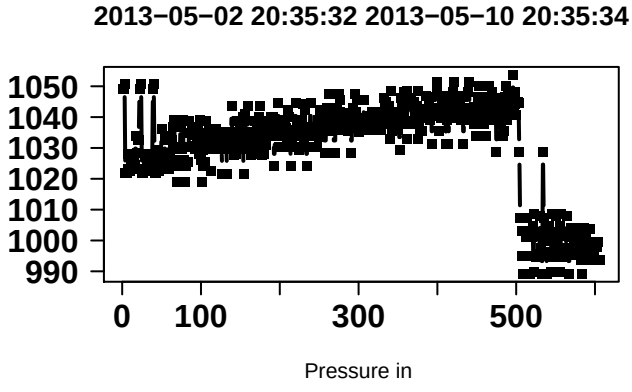

black 0.14 red 0.43
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
26.80
26.78
26.76
28.7
28.5
2
4
6
8
10

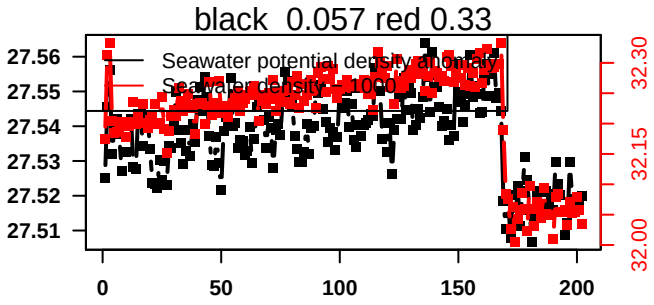

lovbio010b_022_03_06.txt
63
62
61
60
59
58
2
4
6
8
10
CDOM, [CN] / Points @ x s

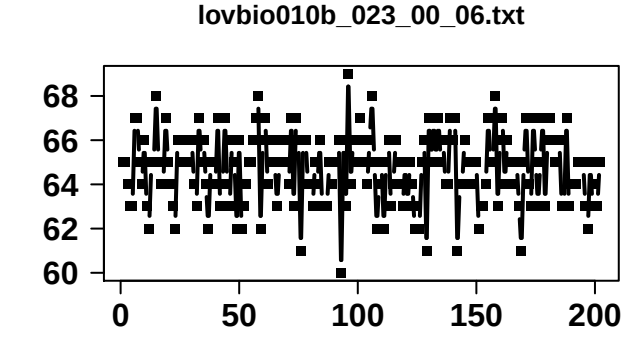

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

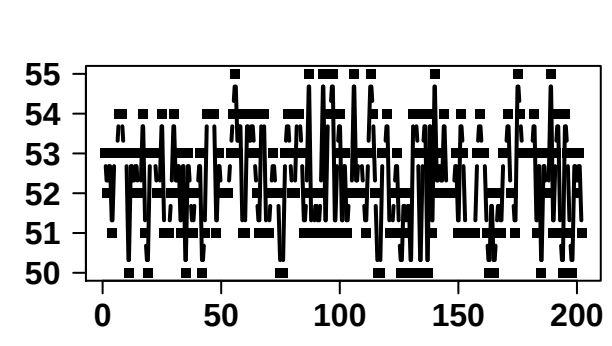

nb days: 0 freq: 0 min
102
100
98
96
2
4
6
8
10
beta, [CN] / Points @ x s

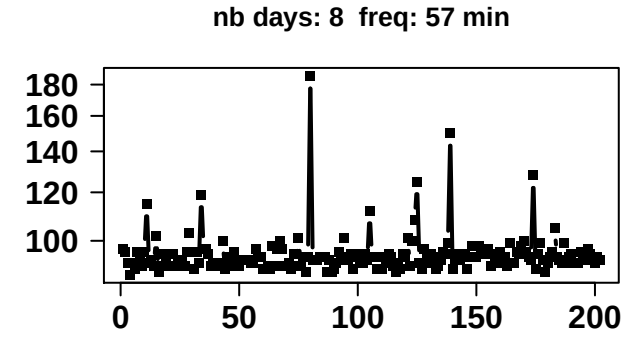

nb days: 0 freq: 0 min
0.229
0.228
0.227
0.226
0.225
0.224
0.223
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

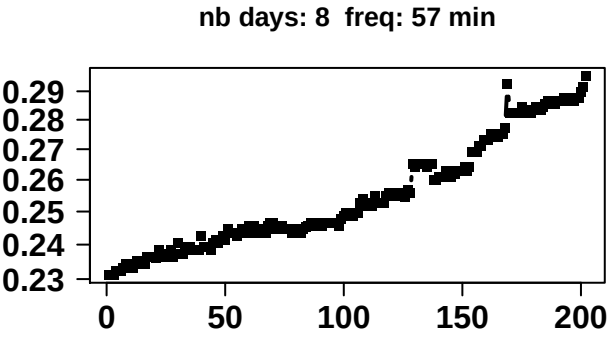

2013−05−02 20:35:32 2013−05−10 20:35:34
1050
1040
1030
1020
1010
1000
990
0
100
300
500
Pressure in

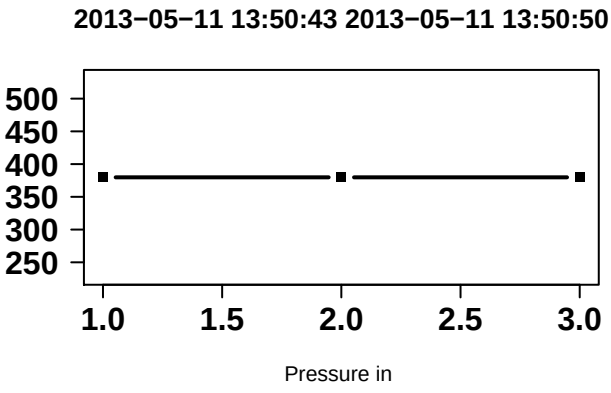

black 0.057 red 0.33
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
27.51
32.30
32.15
32.00
0
50
100
150
200

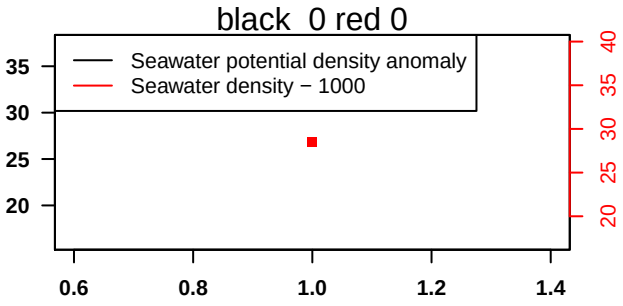

lovbio010b_023_00_06.txt
68
66
64
62
60
0
50
100
150
200
CDOM, [CN] / Points @ x s

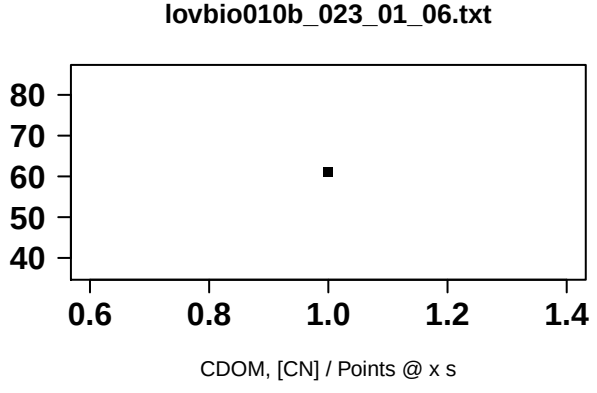

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

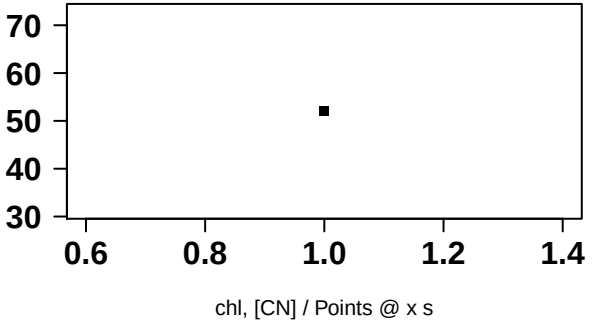

nb days: 8 freq: 57 min
180
160
140
120
100
0
50
100
150
200
beta, [CN] / Points @ x s

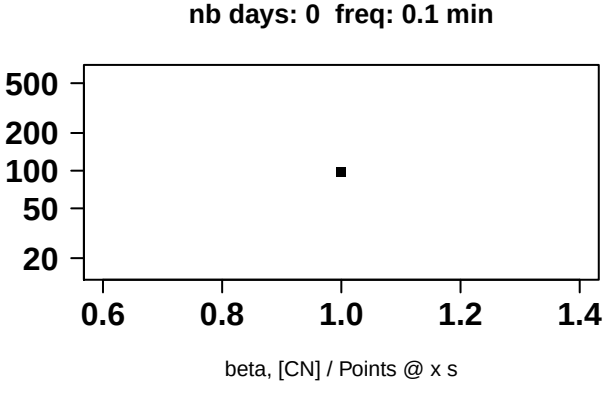

nb days: 8 freq: 57 min
0.29
0.28
0.27
0.26
0.25
0.24
0.23
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

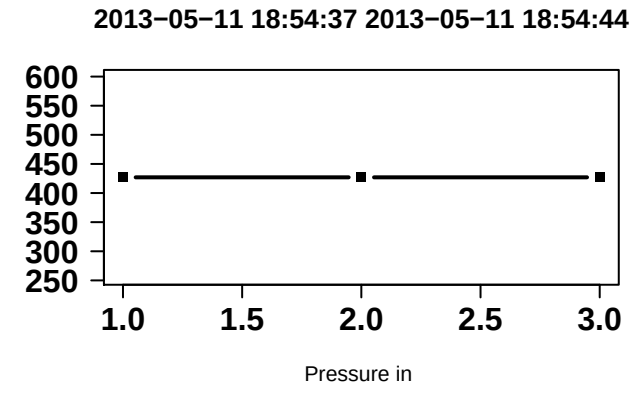

2013−05−11 13:50:43 2013−05−11 13:50:50
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

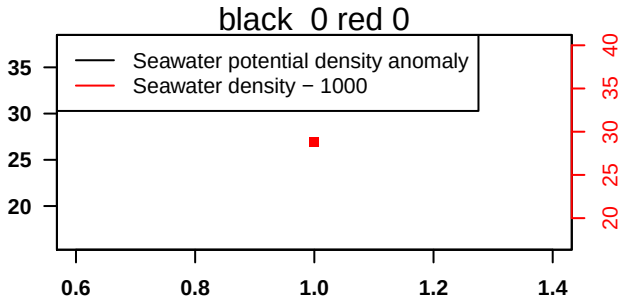

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

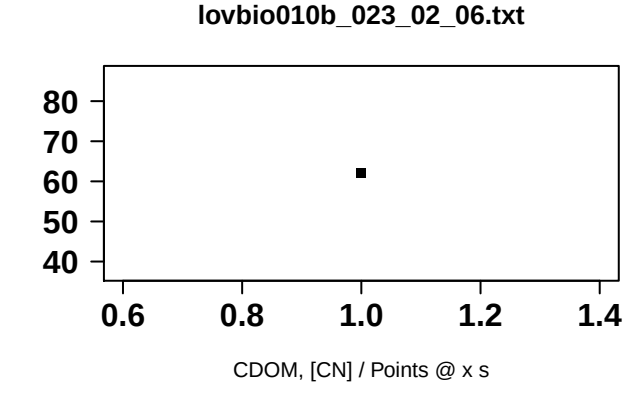

lovbio010b_023_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

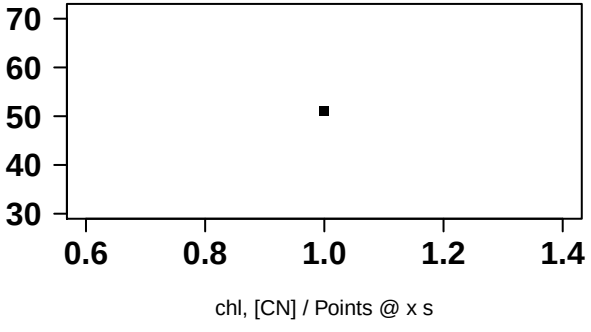

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

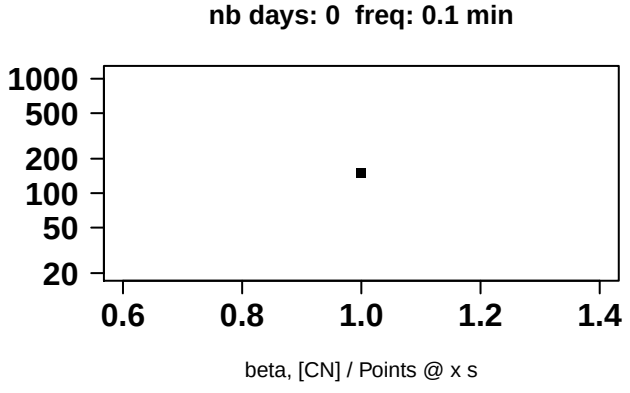

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

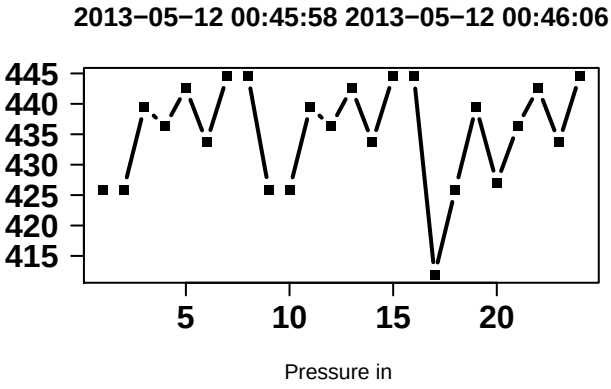

2013−05−11 18:54:37 2013−05−11 18:54:44
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

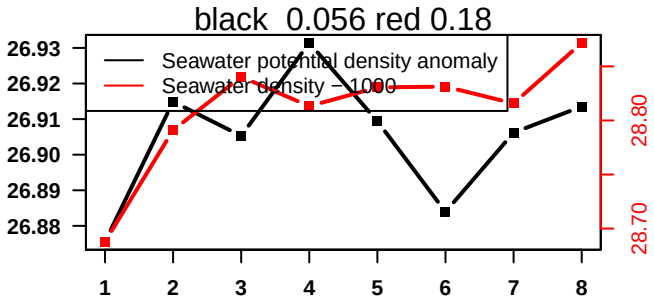

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

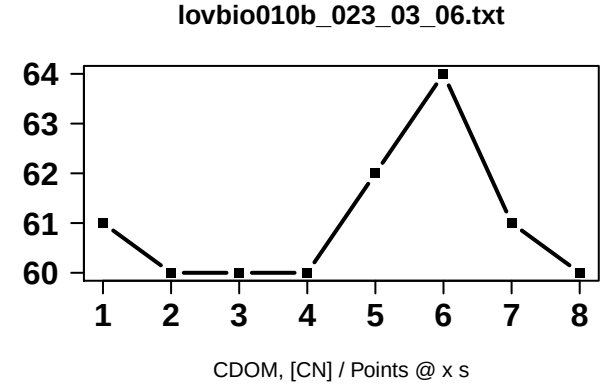

lovbio010b_023_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

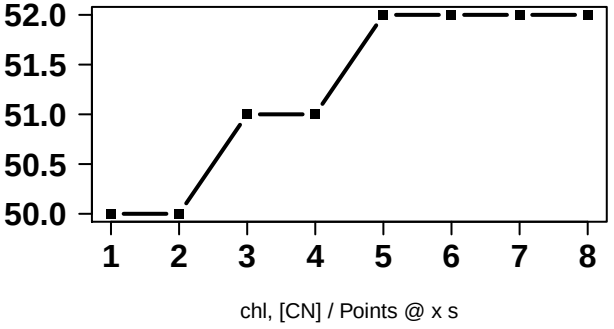

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

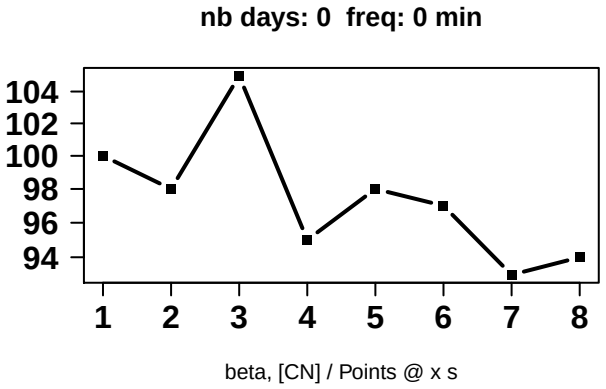

nb days: 0 freq: 0.1 min
1000
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

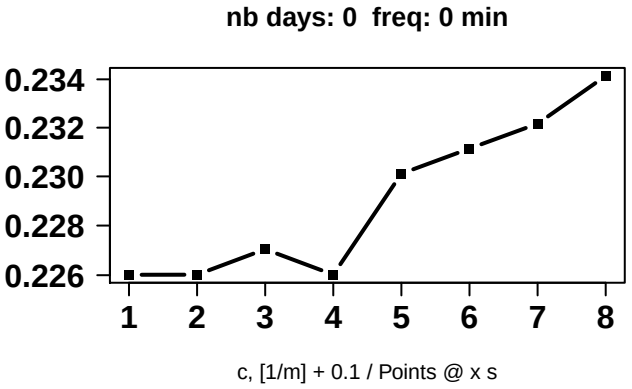

2013−05−12 00:45:58 2013−05−12 00:46:06
445
440
435
430
425
420
415
5
10
15
20
Pressure in

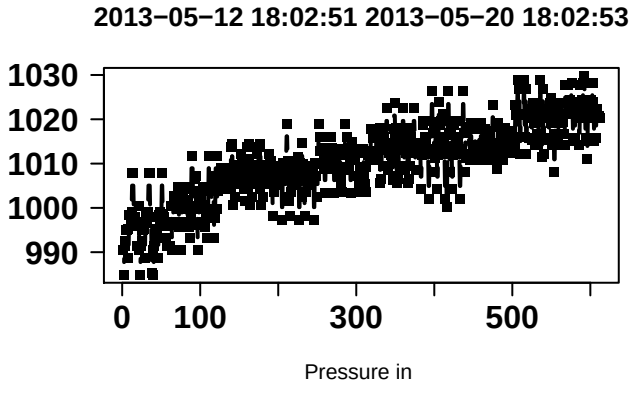

black 0.056 red 0.18
Seawater potential density anomaly
Seawater density − 1000
26.93
26.92
26.91
26.90
26.89
26.88
28.80
28.70
1
2
3
4
5
6
7
8

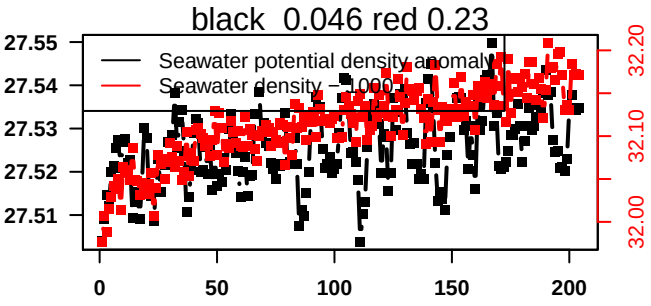

lovbio010b_023_03_06.txt
64
63
62
61
60
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

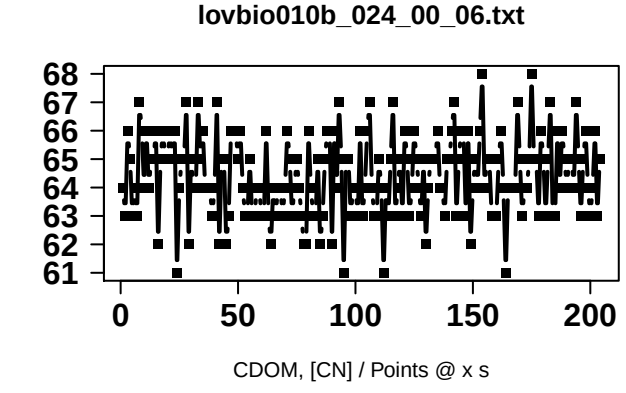

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

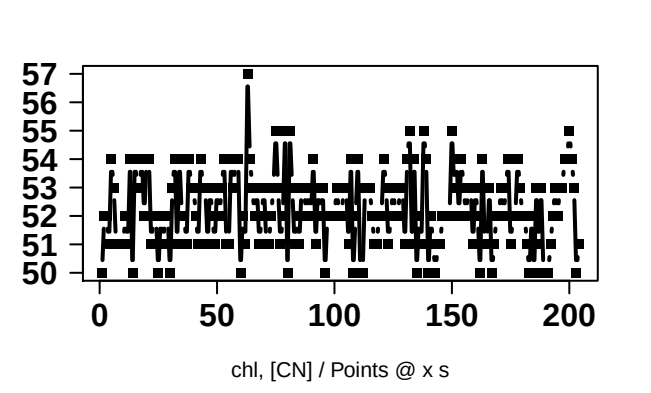

nb days: 0 freq: 0 min
104
102
100
98
96
94
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

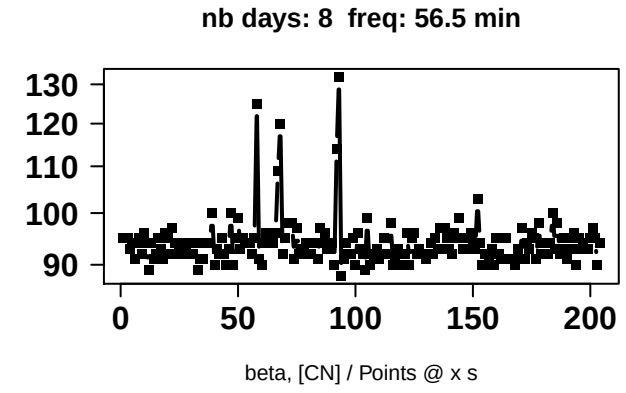

nb days: 0 freq: 0 min
0.234
0.232
0.230
0.228
0.226
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

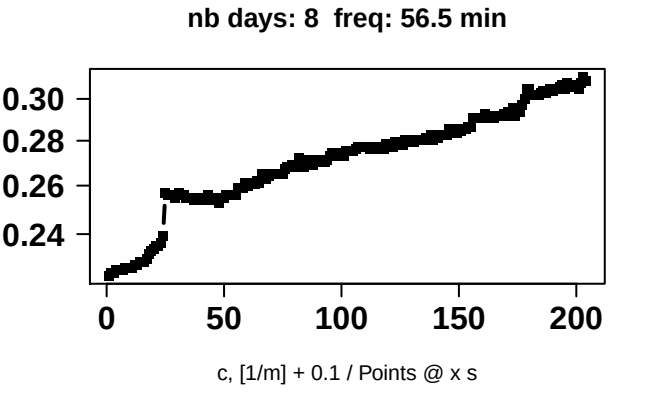

2013−05−12 18:02:51 2013−05−20 18:02:53
1030
1020
1010
1000
990
0
100
300
500
Pressure in

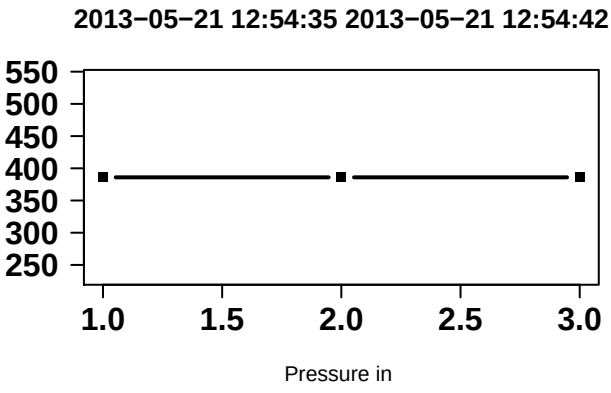

black 0.046 red 0.23
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
32.20
32.10
32.00
0
50
100
150
200

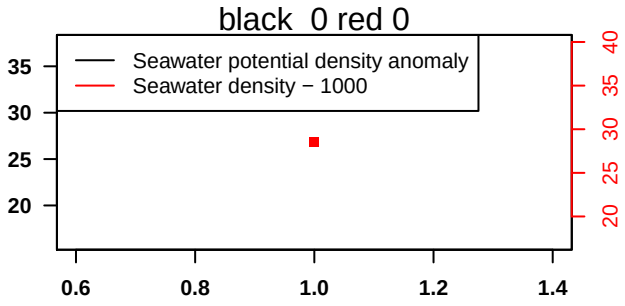

lovbio010b_024_00_06.txt
68
67
66
65
64
63
62
61
0
50
100
150
200
CDOM, [CN] / Points @ x s

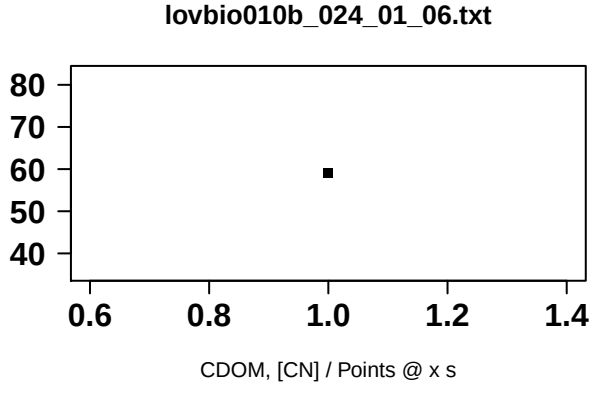

57
56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

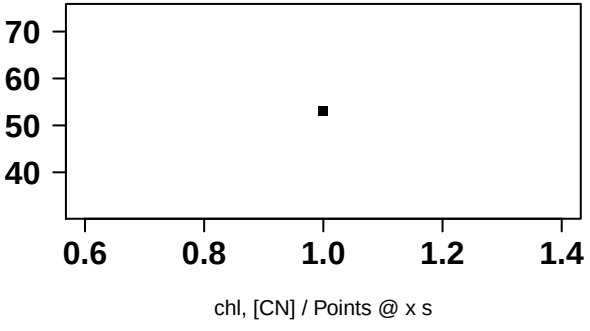

nb days: 8 freq: 56.5 min
130
120
110
100
90
0
50
100
150
200
beta, [CN] / Points @ x s

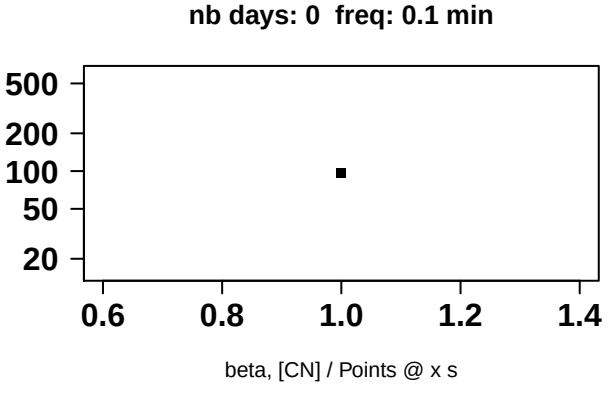

nb days: 8 freq: 56.5 min
0.30
0.28
0.26
0.24
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

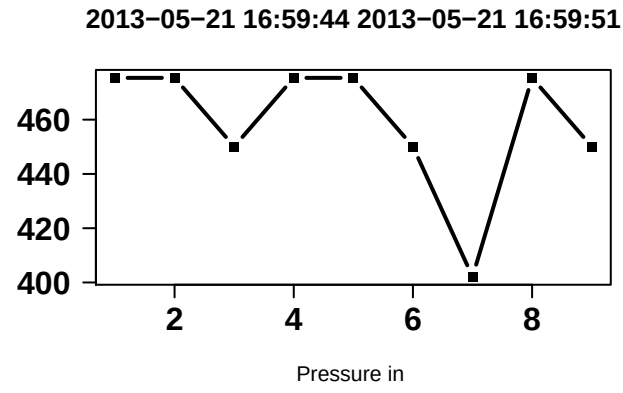

2013−05−21 12:54:35 2013−05−21 12:54:42
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

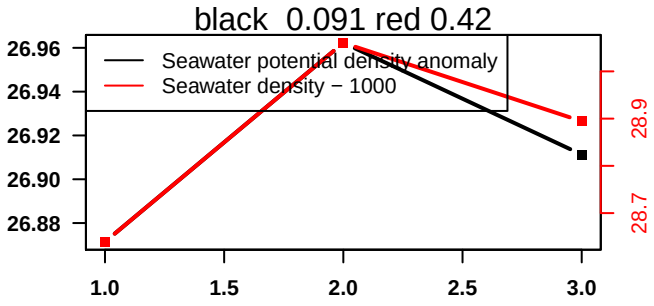

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

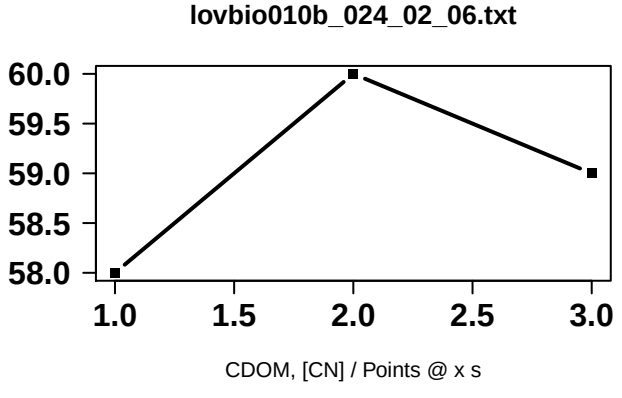

lovbio010b_024_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

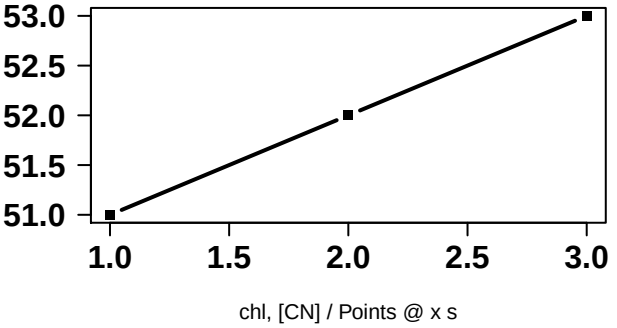

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

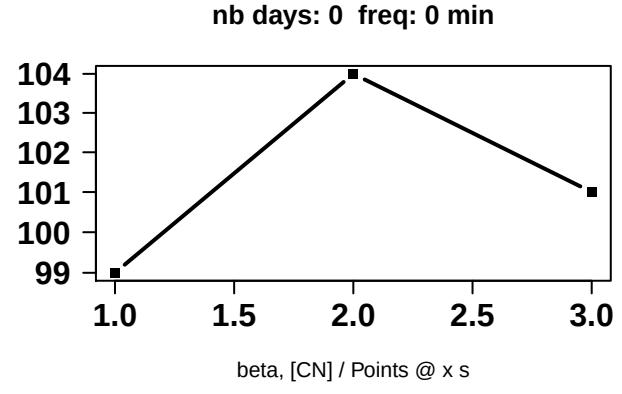

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

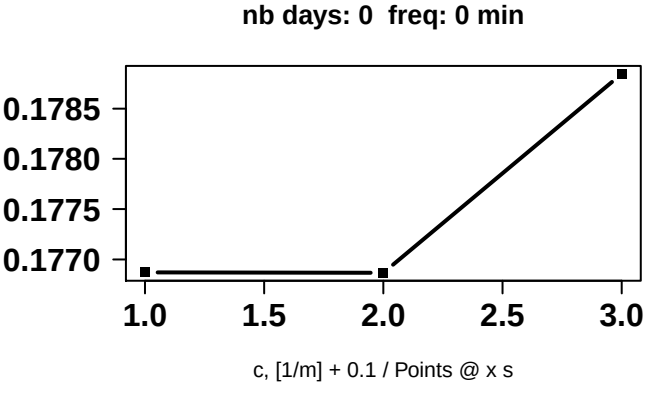

2013−05−21 16:59:44 2013−05−21 16:59:51
460
440
420
400
2
4
6
8
Pressure in

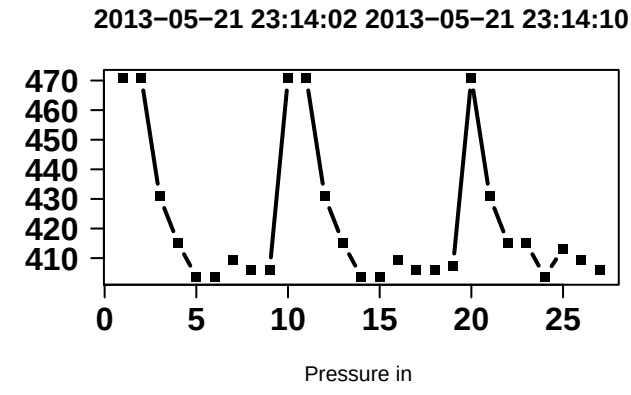

black 0.091 red 0.42
Seawater potential density anomaly
Seawater density − 1000
26.96
26.94
26.92
26.90
26.88
28.9
28.7
1.0
1.5
2.0
2.5
3.0

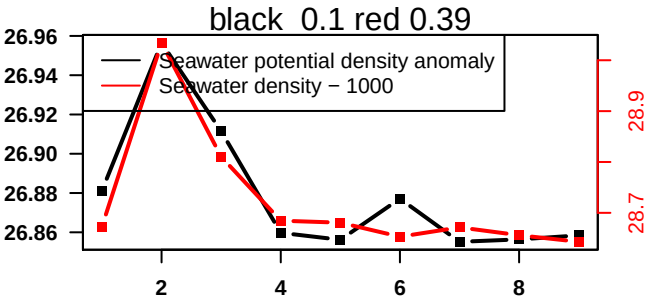

lovbio010b_024_02_06.txt
60.0
59.5
59.0
58.5
58.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

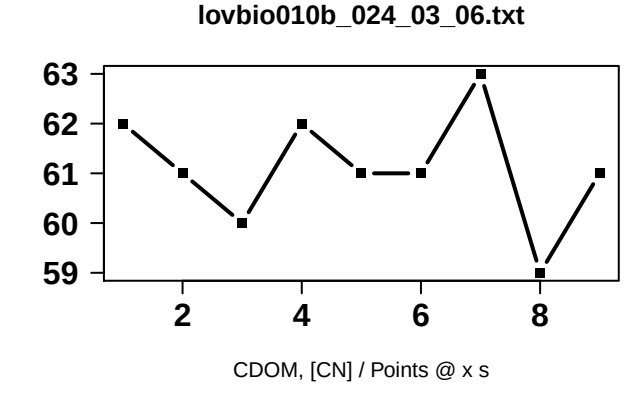

53.0
52.5
52.0
51.5
51.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

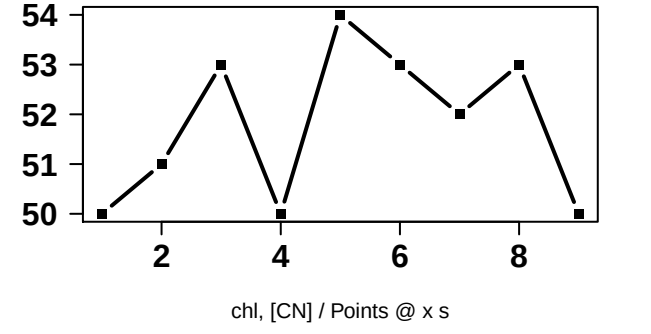

nb days: 0 freq: 0 min
104
103
102
101
100
99
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

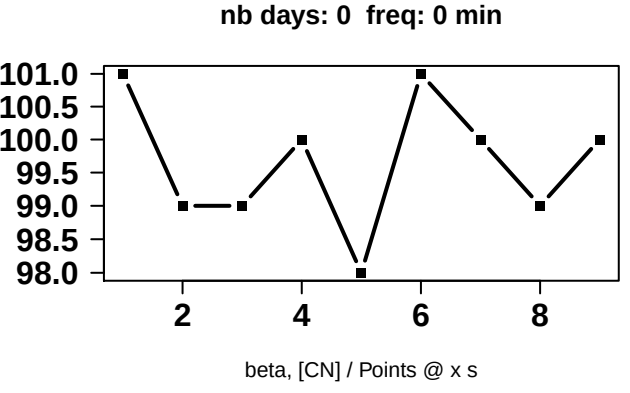

nb days: 0 freq: 0 min
0.1785
0.1780
0.1775
0.1770
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

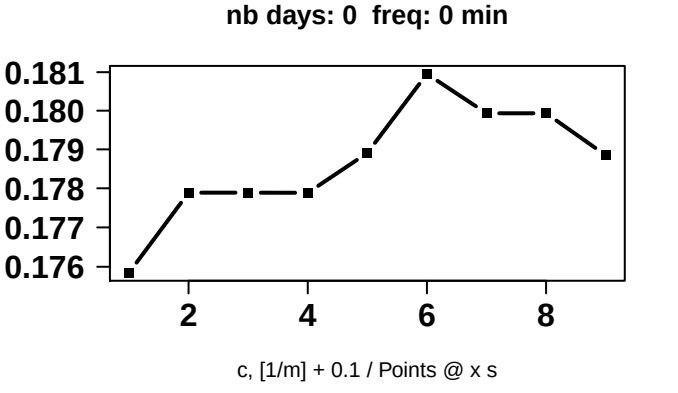

2013−05−21 23:14:02 2013−05−21 23:14:10
470
460
450
440
430
420
410
0
5
10
15
20
25
Pressure in

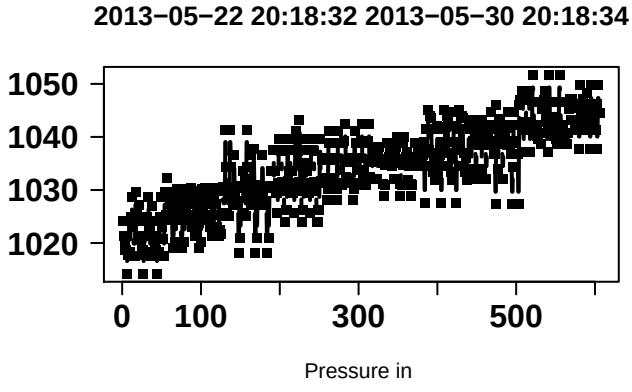

black 0.1 red 0.39
Seawater potential density anomaly
Seawater density − 1000
26.96
26.94
26.92
26.90
26.88
26.86
28.9
28.7
2
4
6
8

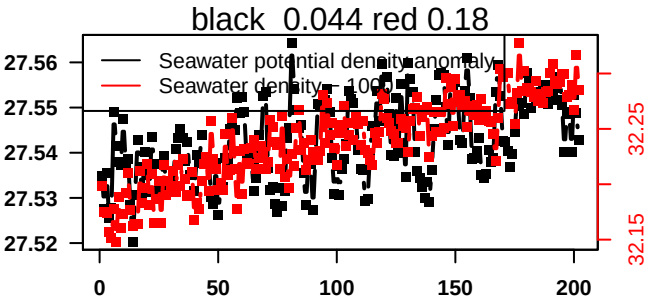

lovbio010b_024_03_06.txt
63
62
61
60
59
2
4
6
8
CDOM, [CN] / Points @ x s

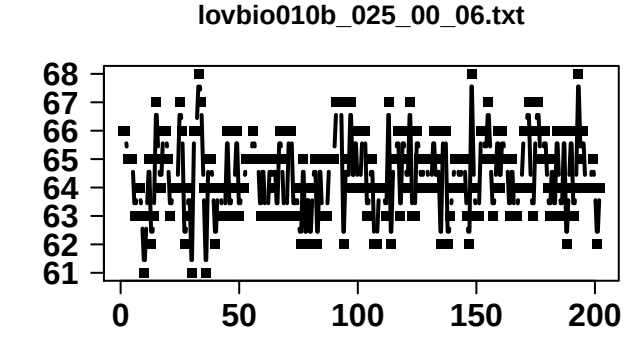

54
53
52
51
50
2
4
6
8
chl, [CN] / Points @ x s

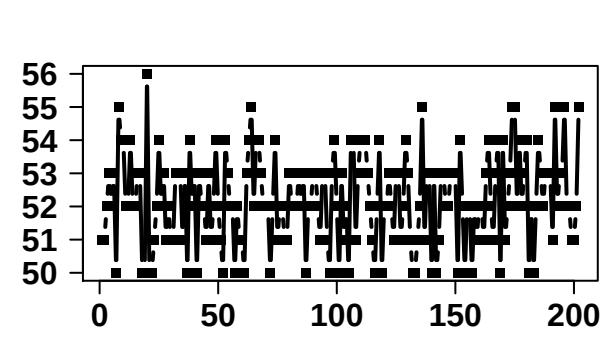

nb days: 0 freq: 0 min
101.0
100.5
100.0
99.5
99.0
98.5
98.0
2
4
6
8
beta, [CN] / Points @ x s

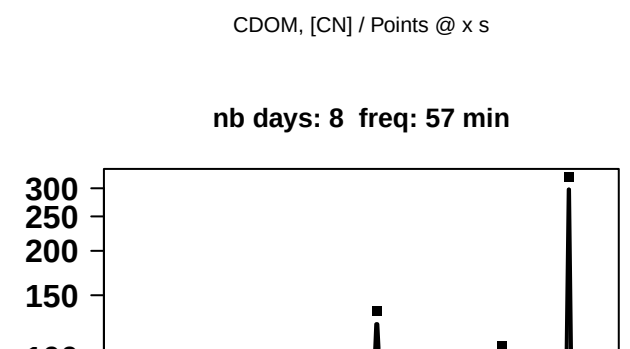

nb days: 0 freq: 0 min
0.181
0.180
0.179
0.178
0.177
0.176
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

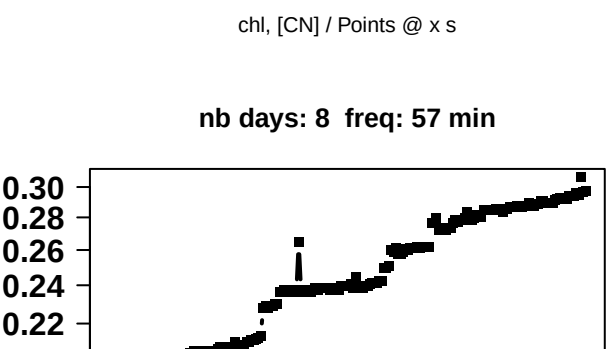

2013−05−22 20:18:32 2013−05−30 20:18:34
1050
1040
1030
1020
0
100
300
500
Pressure in

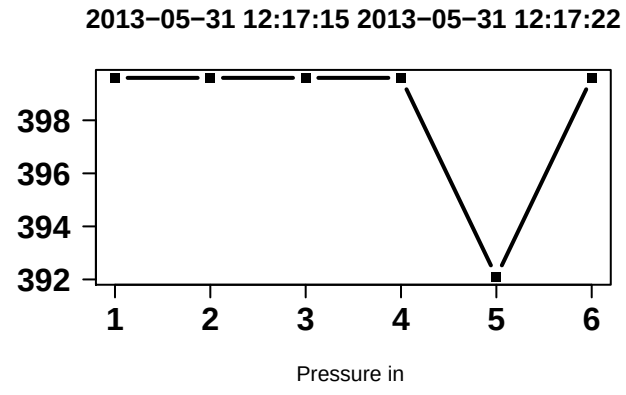

black 0.044 red 0.18
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
32.25
32.15
0
50
100
150
200

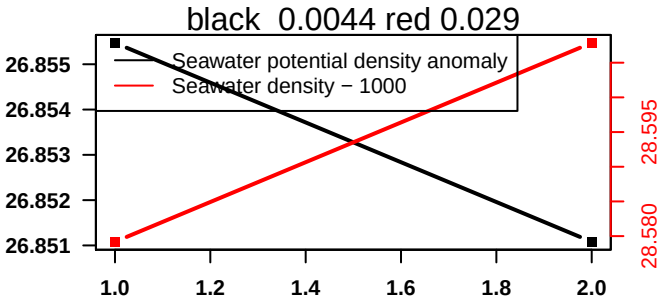

lovbio010b_025_00_06.txt
68
67
66
65
64
63
62
61
0
50
100
150
200
CDOM, [CN] / Points @ x s

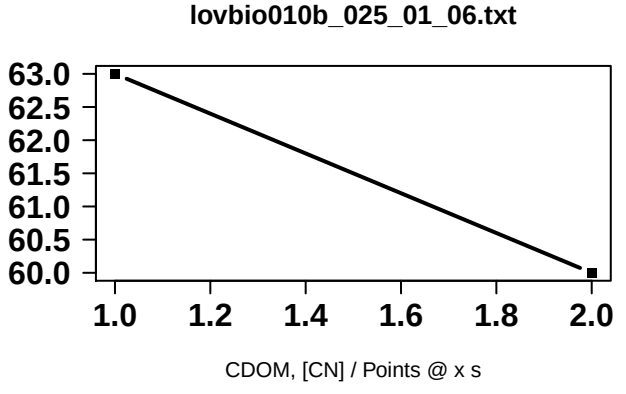

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

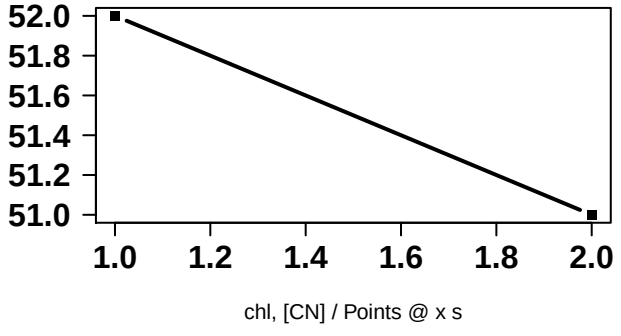

nb days: 8 freq: 57 min
300
250
200
150
100
0
50
100
150
200
beta, [CN] / Points @ x s

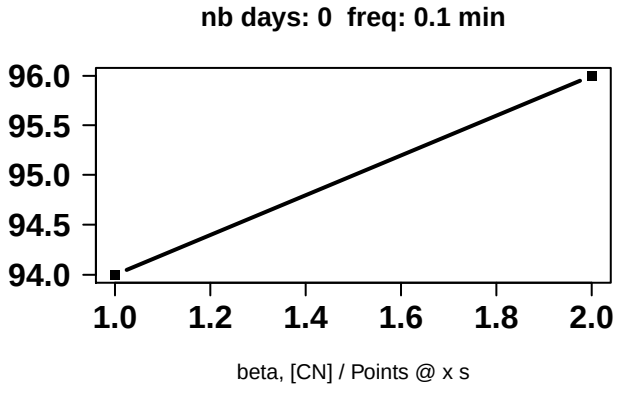

nb days: 8 freq: 57 min
0.30
0.28
0.26
0.24
0.22
0.20
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

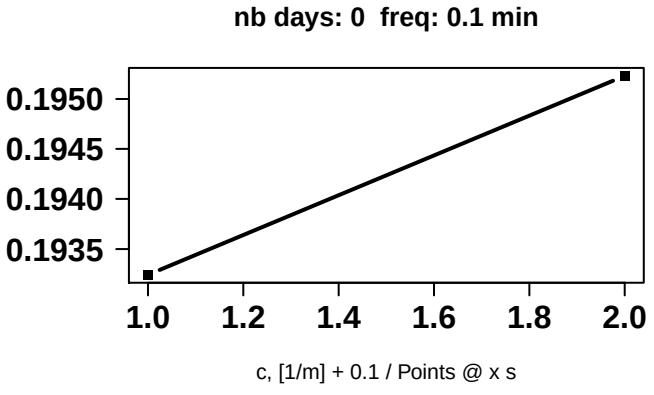

2013−05−31 12:17:15 2013−05−31 12:17:22
398
396
394
392
1
2
3
4
5
6
Pressure in

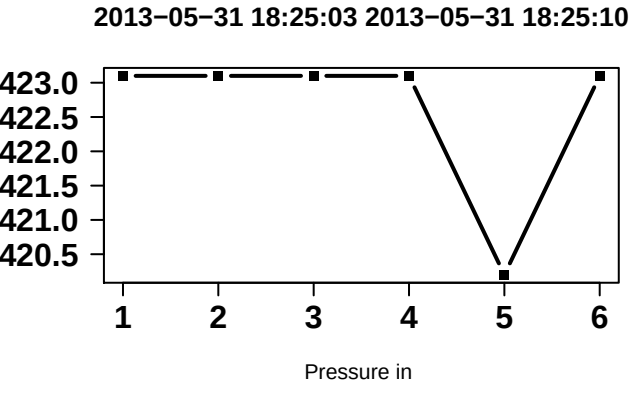

black 0.0044 red 0.029
Seawater potential density anomaly
Seawater density − 1000
26.855
26.854
26.853
26.852
26.851
28.595
28.580
1.0
1.2
1.4
1.6
1.8
2.0

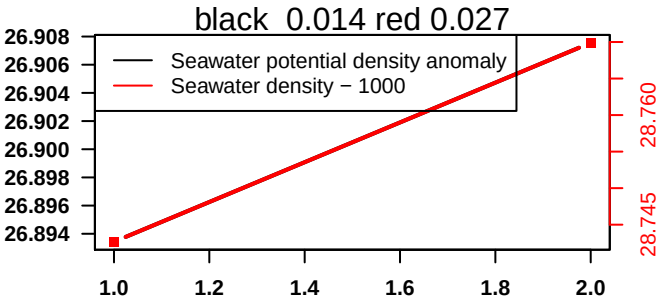

lovbio010b_025_01_06.txt
63.0
62.5
62.0
61.5
61.0
60.5
60.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

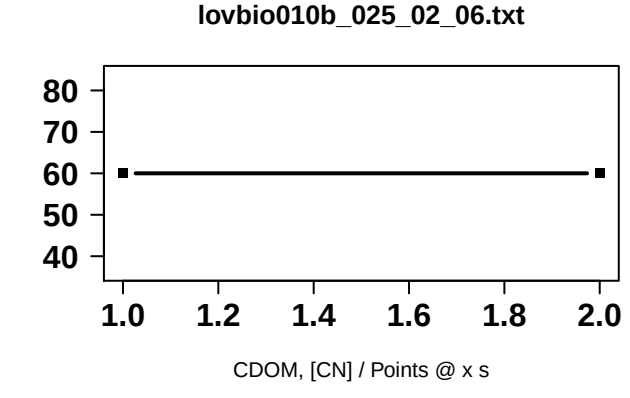

52.0
51.8
51.6
51.4
51.2
51.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

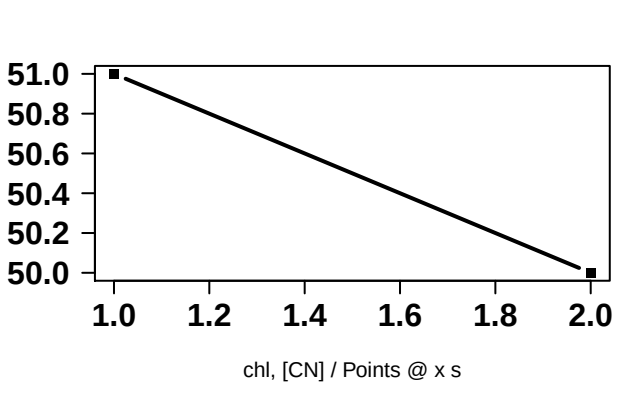

nb days: 0 freq: 0.1 min
96.0
95.5
95.0
94.5
94.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

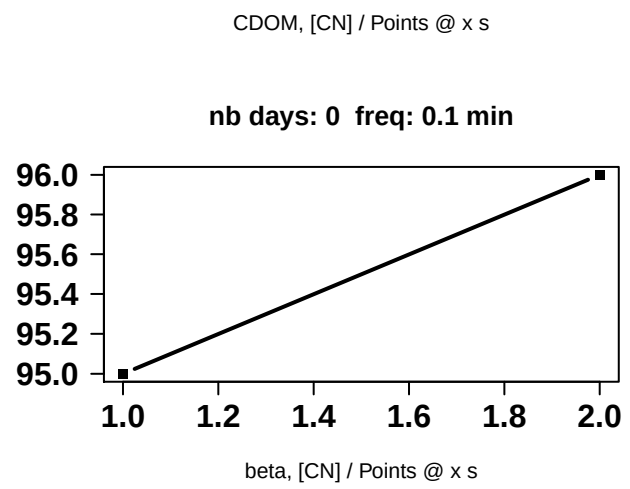

nb days: 0 freq: 0.1 min
0.1950
0.1945
0.1940
0.1935
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

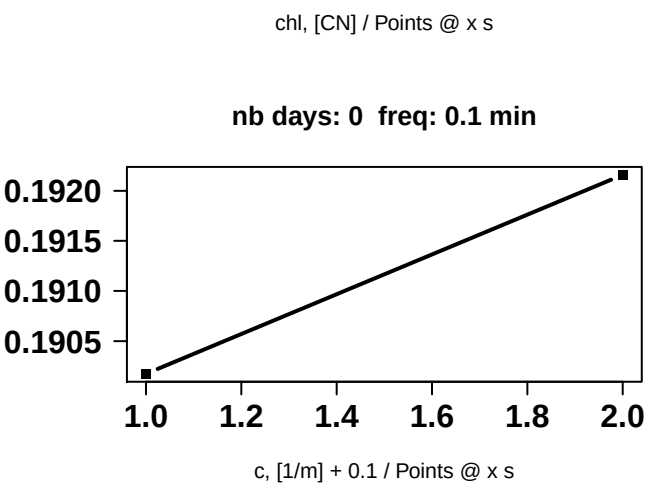

2013−05−31 18:25:03 2013−05−31 18:25:10
423.0
422.5
422.0
421.5
421.0
420.5
1
2
3
4
5
6
Pressure in

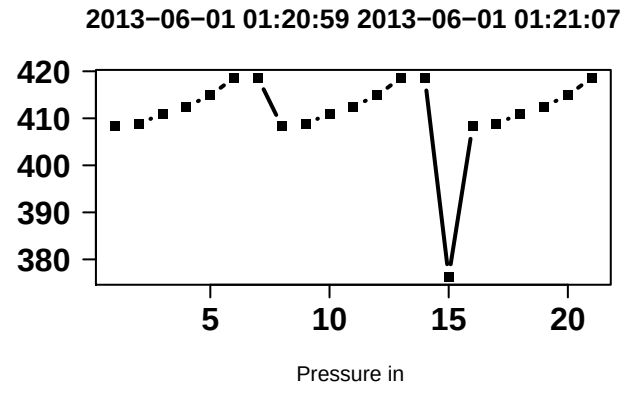

black 0.014 red 0.027
Seawater potential density anomaly
Seawater density − 1000
26.908
26.906
26.904
26.902
26.900
26.898
26.896
26.894
28.760
28.745
1.0
1.2
1.4
1.6
1.8
2.0

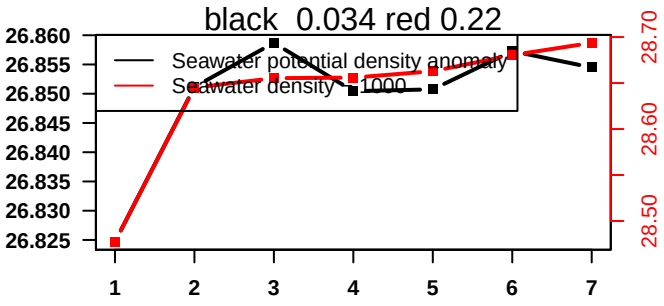

lovbio010b_025_02_06.txt
80
70
60
50
40
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

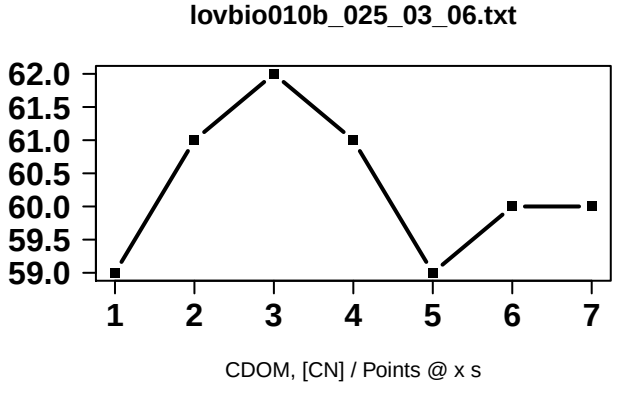

51.0
50.8
50.6
50.4
50.2
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

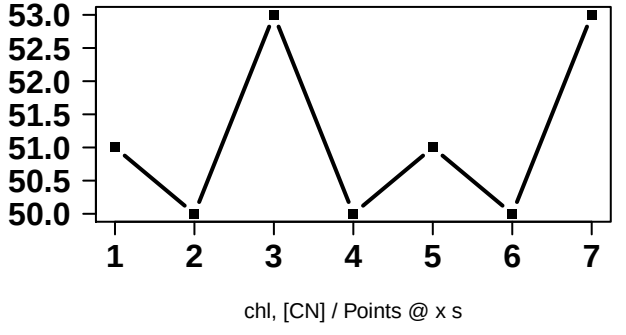

nb days: 0 freq: 0.1 min
96.0
95.8
95.6
95.4
95.2
95.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

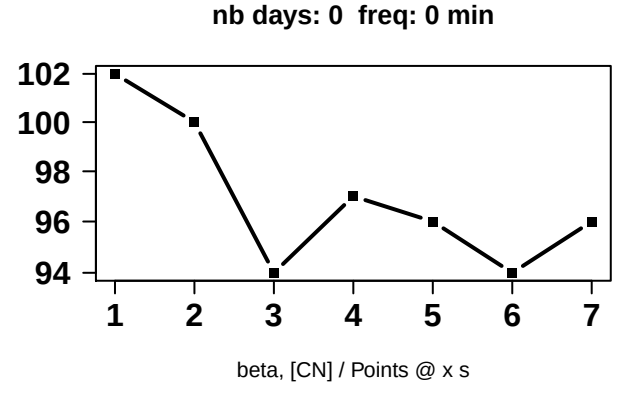

nb days: 0 freq: 0.1 min
0.1920
0.1915
0.1910
0.1905
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

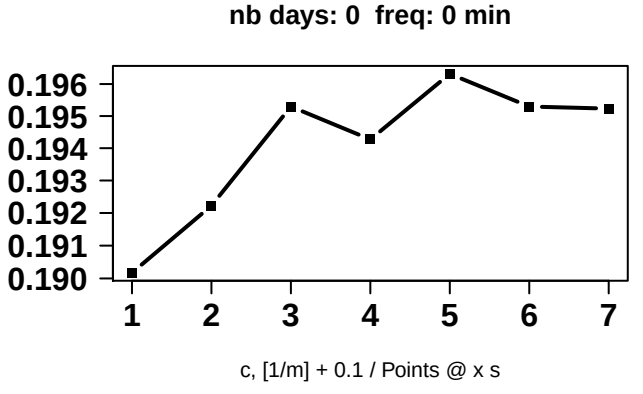

2013−06−01 01:20:59 2013−06−01 01:21:07
420
410
400
390
380
5
10
15
20
Pressure in

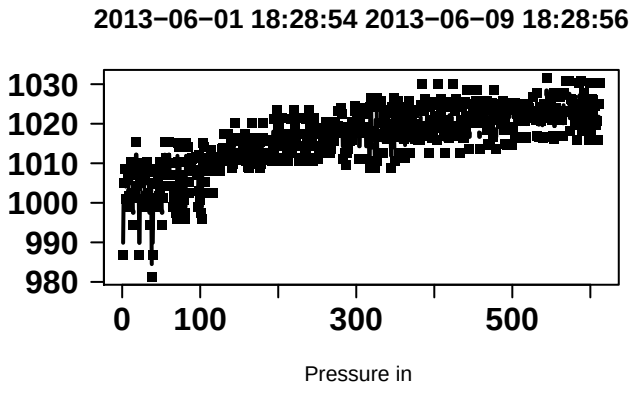

black 0.034 red 0.22
Seawater potential density anomaly
Seawater density − 1000
26.860
26.855
26.850
26.845
26.840
26.835
26.830
26.825
28.70
28.60
28.50
1
2
3
4
5
6
7

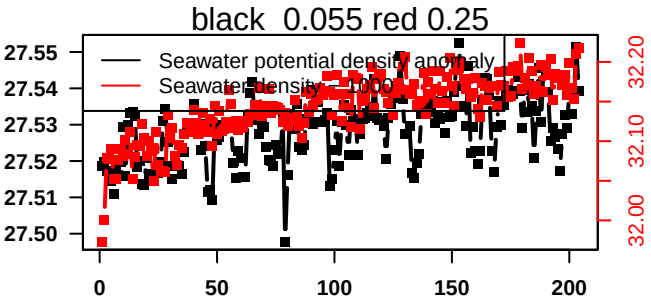

lovbio010b_025_03_06.txt
62.0
61.5
61.0
60.5
60.0
59.5
59.0
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

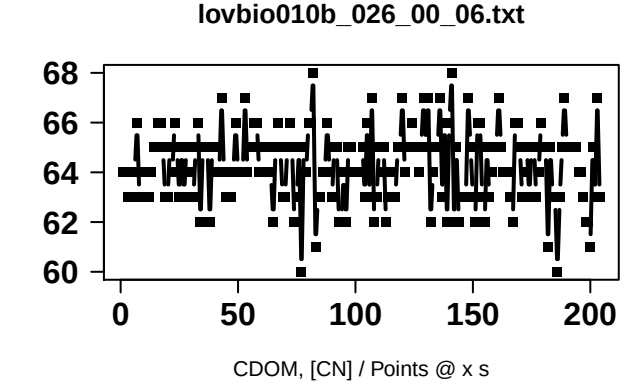

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

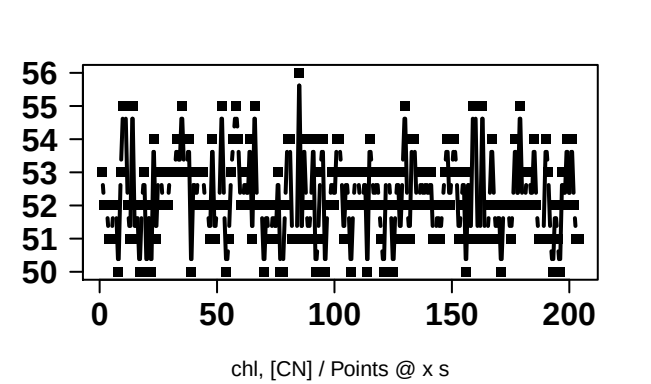

nb days: 0 freq: 0 min
102
100
98
96
94
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

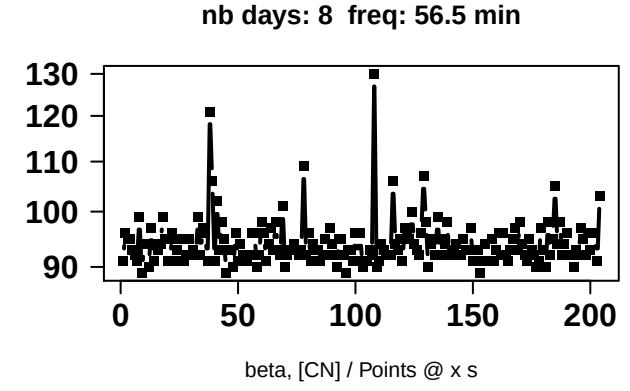

nb days: 0 freq: 0 min
0.196
0.195
0.194
0.193
0.192
0.191
0.190
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

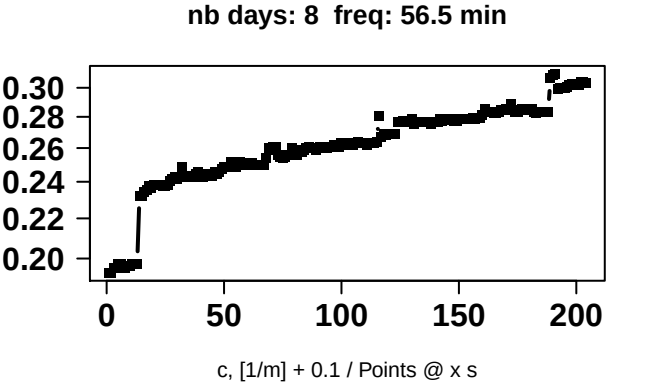

2013−06−01 18:28:54 2013−06−09 18:28:56
1030
1020
1010
1000
990
980
0
100
300
500
Pressure in

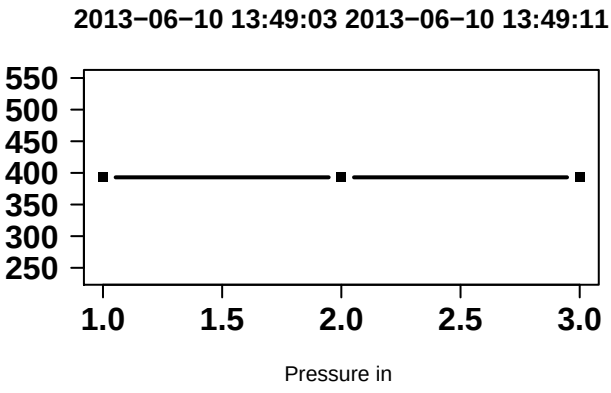

black 0.055 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
27.50
32.20
32.10
32.00
0
50
100
150
200

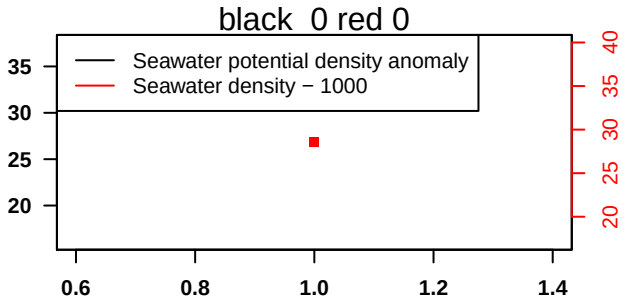

lovbio010b_026_00_06.txt
68
66
64
62
60
0
50
100
150
200
CDOM, [CN] / Points @ x s

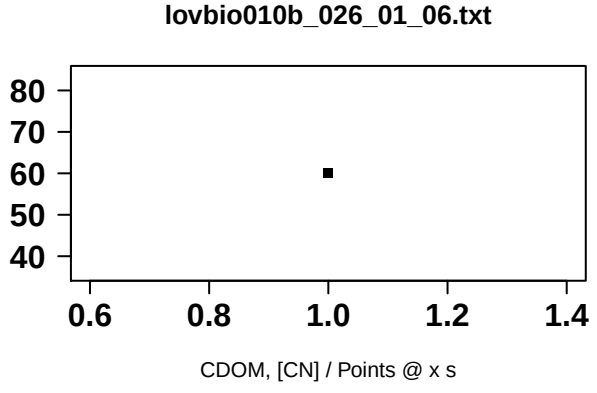

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

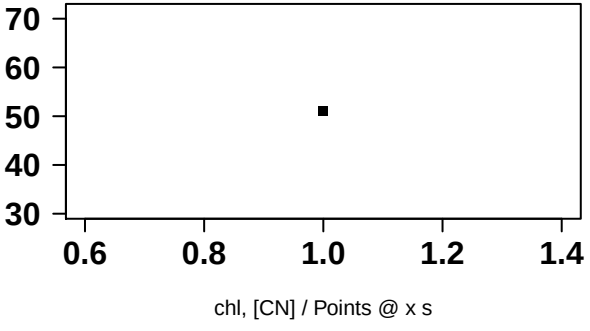

nb days: 8 freq: 56.5 min
130
120
110
100
90
0
50
100
150
200
beta, [CN] / Points @ x s

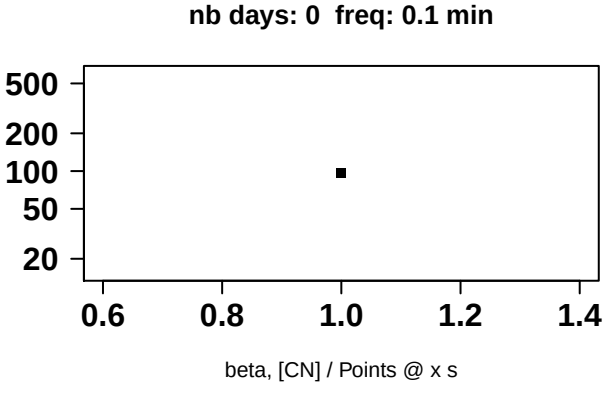

nb days: 8 freq: 56.5 min
0.30
0.28
0.26
0.24
0.22
0.20
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

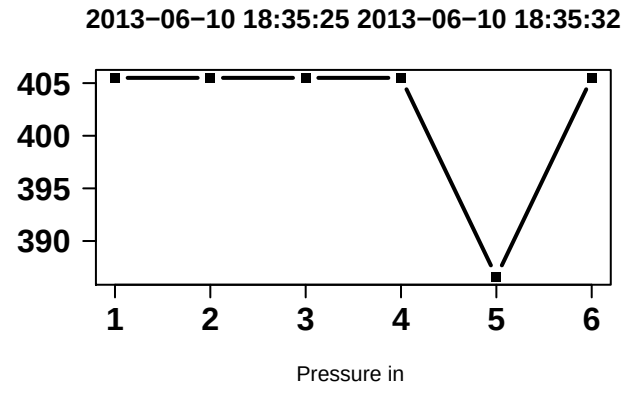

2013−06−10 13:49:03 2013−06−10 13:49:11
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

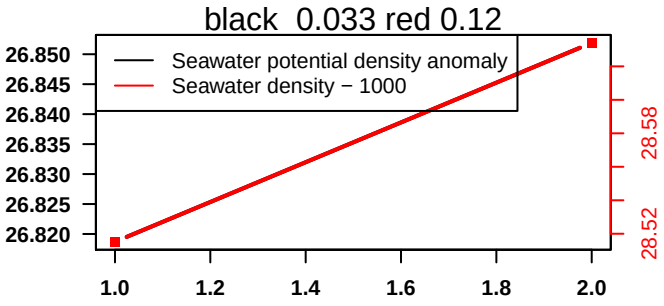

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

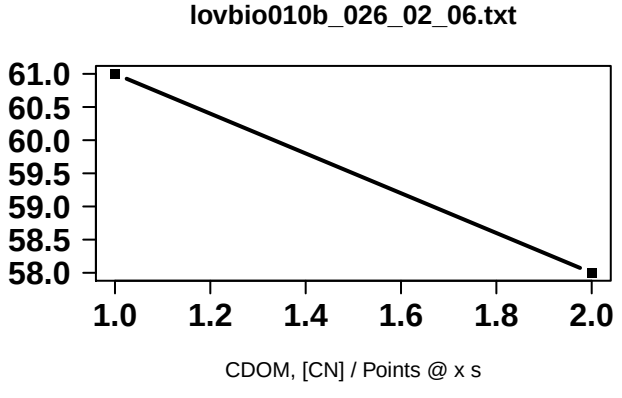

lovbio010b_026_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

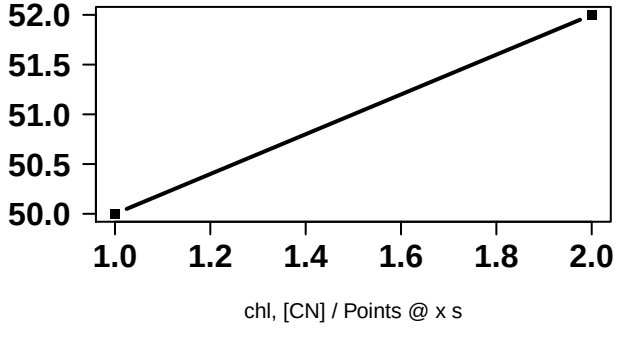

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

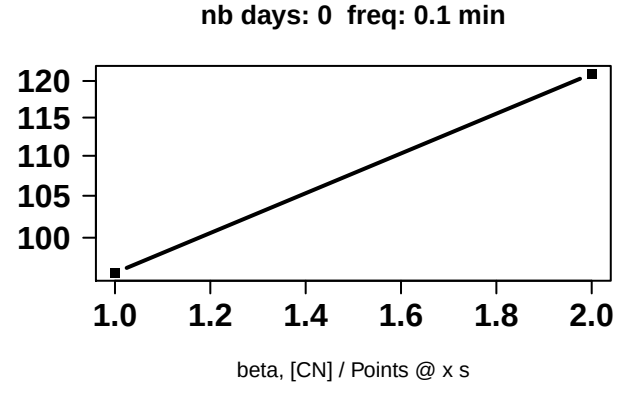

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

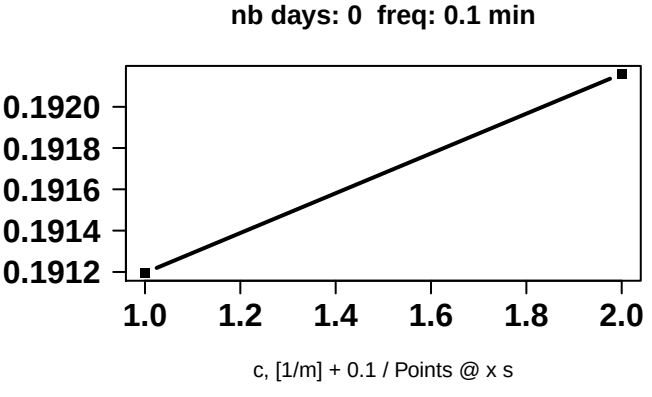

2013−06−10 18:35:25 2013−06−10 18:35:32
405
400
395
390
1
2
3
4
5
6
Pressure in

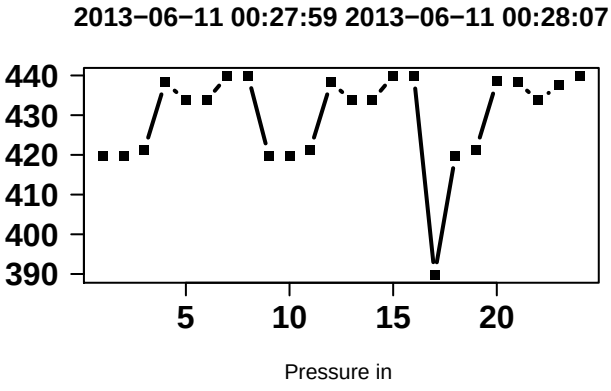

black 0.033 red 0.12
Seawater potential density anomaly
Seawater density − 1000
26.850
26.845
26.840
26.835
26.830
26.825
26.820
28.58
28.52
1.0
1.2
1.4
1.6
1.8
2.0

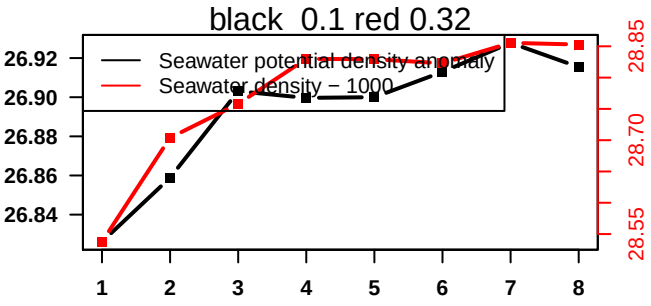

lovbio010b_026_02_06.txt
61.0
60.5
60.0
59.5
59.0
58.5
58.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

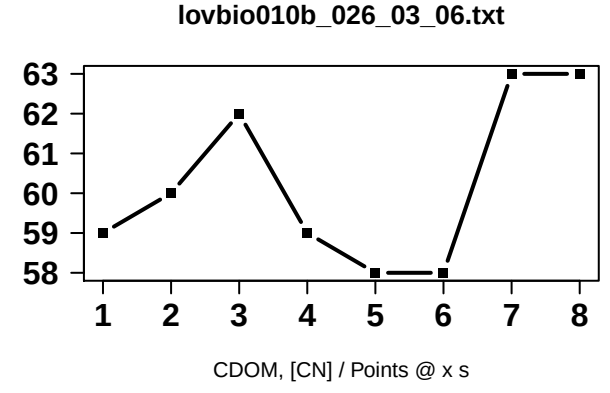

52.0
51.5
51.0
50.5
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

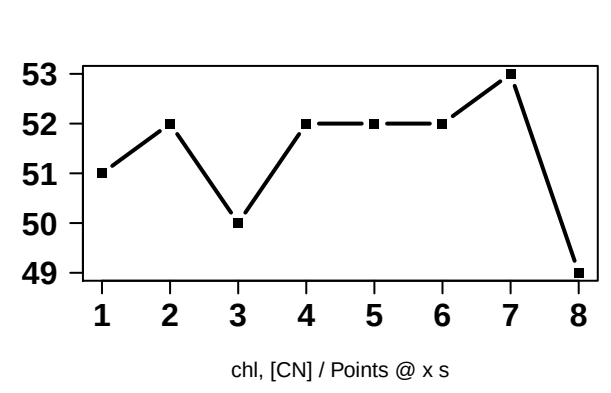

nb days: 0 freq: 0.1 min
120
115
110
105
100
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

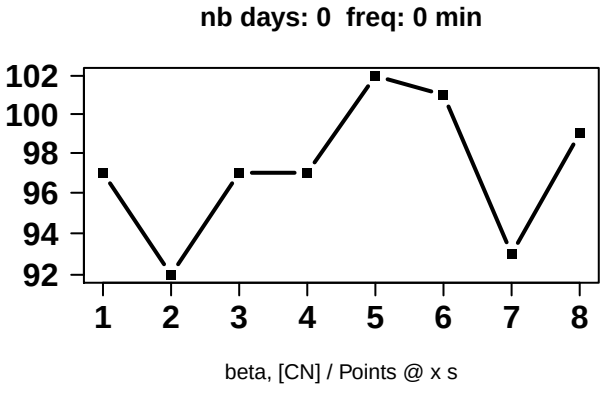

nb days: 0 freq: 0.1 min
0.1920
0.1918
0.1916
0.1914
0.1912
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

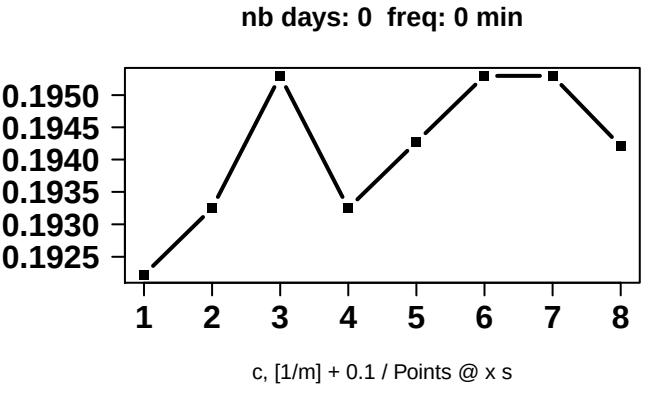

2013−06−11 00:27:59 2013−06−11 00:28:07
440
430
420
410
400
390
5
10
15
20
Pressure in

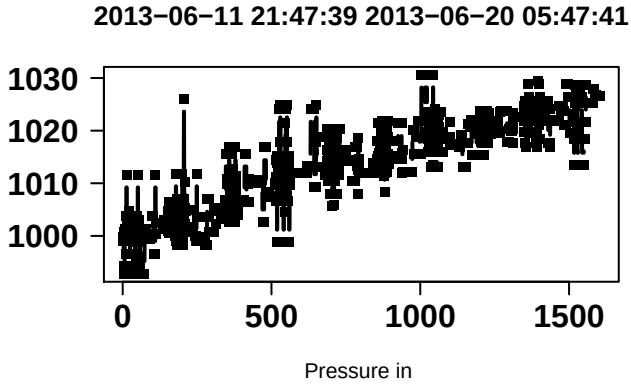

black 0.1 red 0.32
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
26.84
28.85
28.70
28.55
1
2
3
4
5
6
7
8

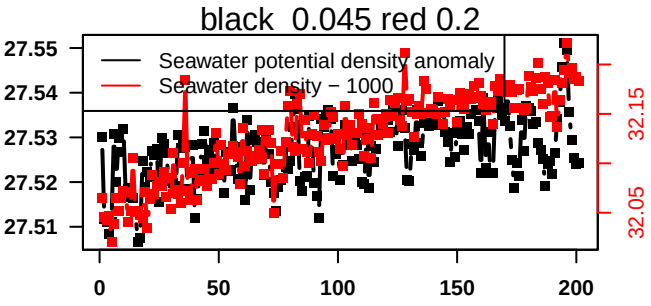

lovbio010b_026_03_06.txt
63
62
61
60
59
58
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

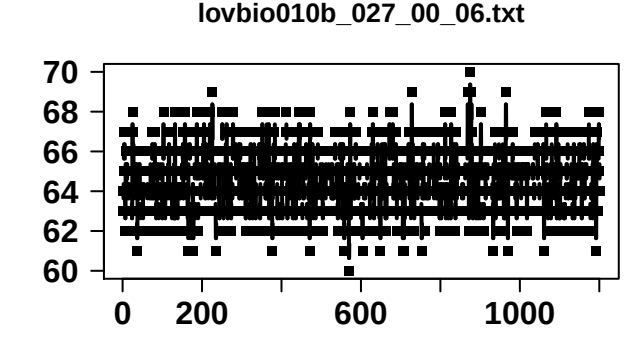

53
52
51
50
49
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

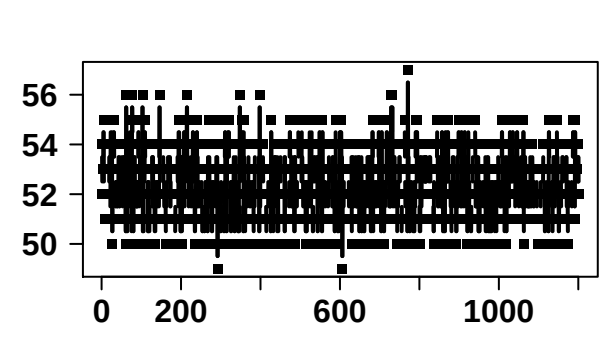

nb days: 0 freq: 0 min
102
100
98
96
94
92
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

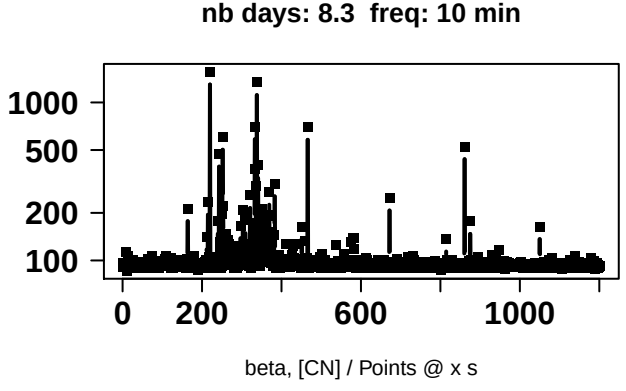

nb days: 0 freq: 0 min
0.1950
0.1945
0.1940
0.1935
0.1930
0.1925
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

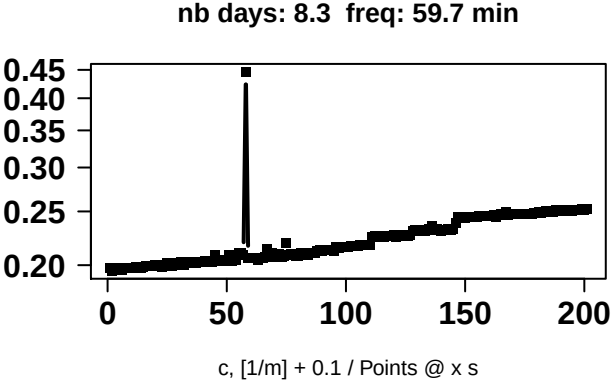

2013−06−11 21:47:39 2013−06−20 05:47:41
1030
1020
1010
1000
0
500
1000
1500
Pressure in

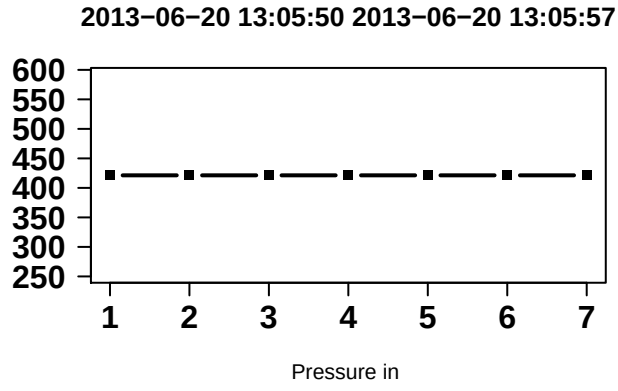

black 0.045 red 0.2
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
32.15
32.05
0
50
100
150
200

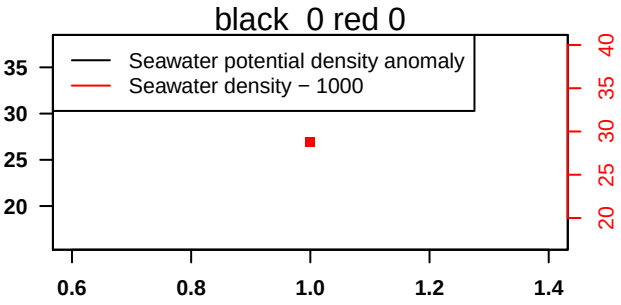

lovbio010b_027_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

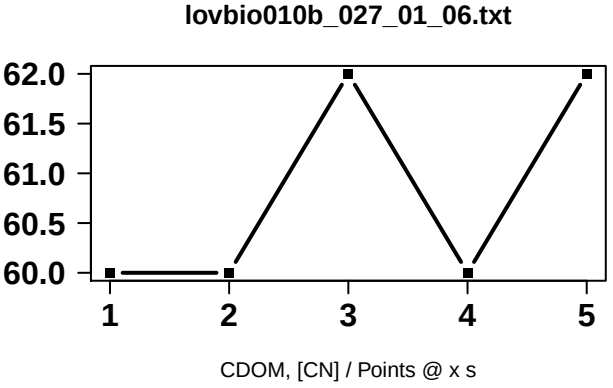

56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

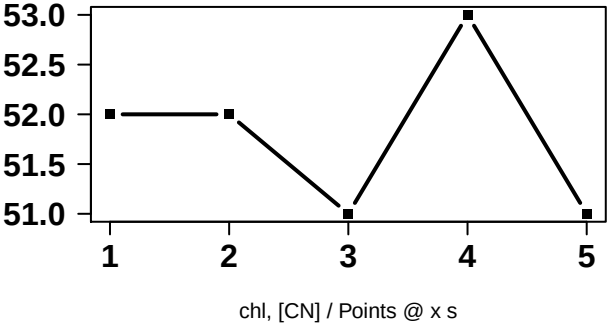

nb days: 8.3 freq: 10 min
1000
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

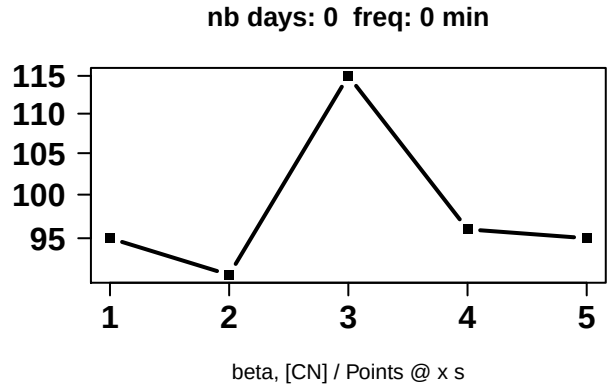

nb days: 8.3 freq: 59.7 min
0.45
0.40
0.35
0.30
0.25
0.20
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

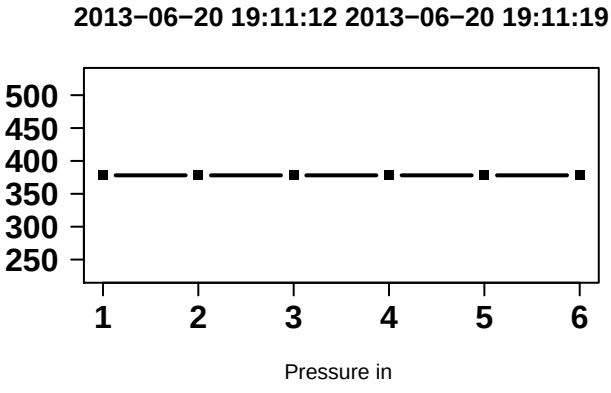

2013−06−20 13:05:50 2013−06−20 13:05:57
600
550
500
450
400
350
300
250
1
2
3
4
5
6
7
Pressure in

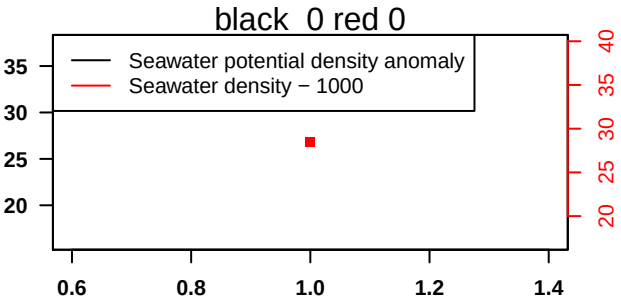

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

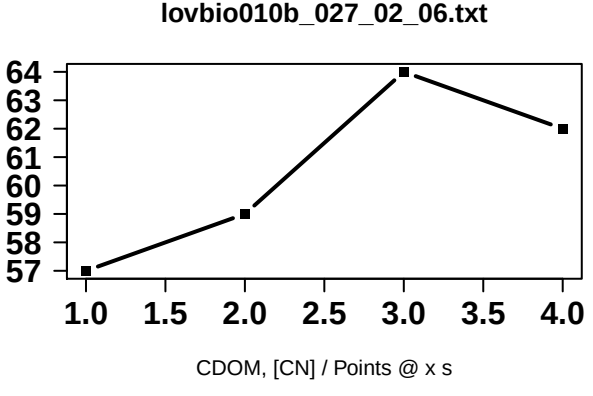

lovbio010b_027_01_06.txt
62.0
61.5
61.0
60.5
60.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

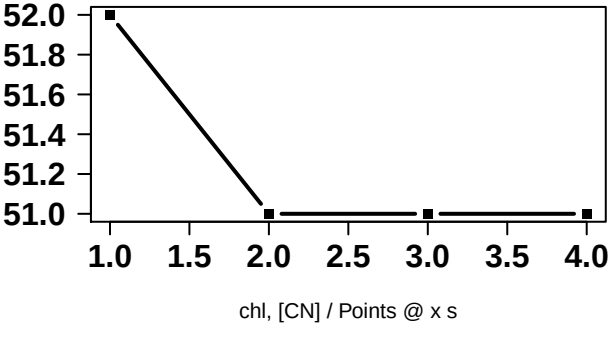

53.0
52.5
52.0
51.5
51.0
1
2
3
4
5
chl, [CN] / Points @ x s

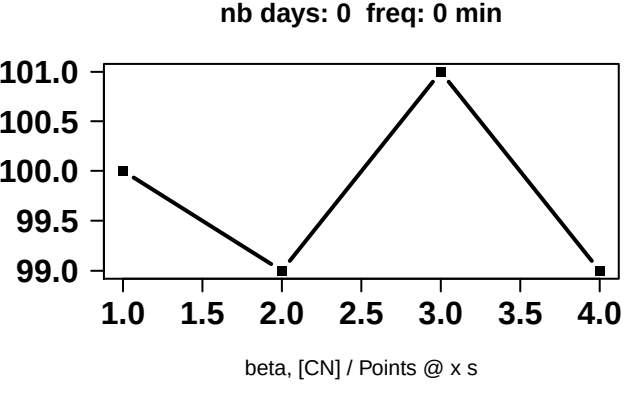

nb days: 0 freq: 0 min
115
110
105
100
95
1
2
3
4
5
beta, [CN] / Points @ x s

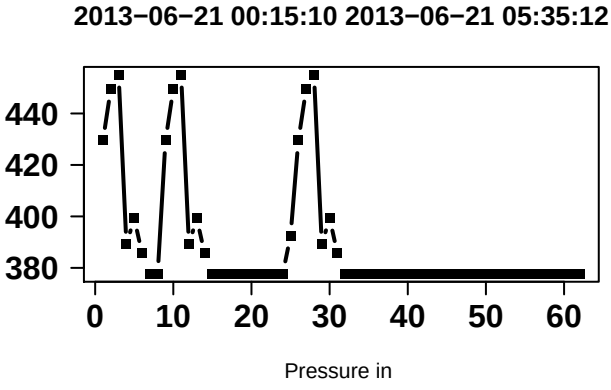

2013−06−20 19:11:12 2013−06−20 19:11:19
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

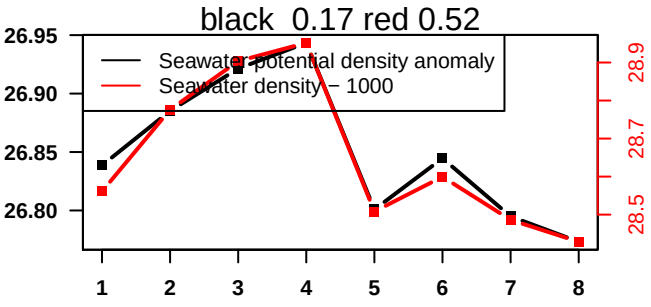

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

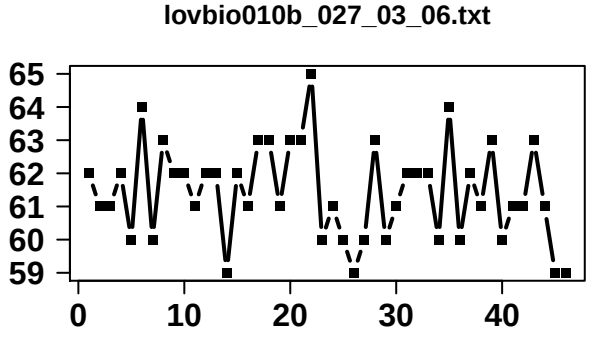

lovbio010b_027_02_06.txt
64
63
62
61
60
59
58
57
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

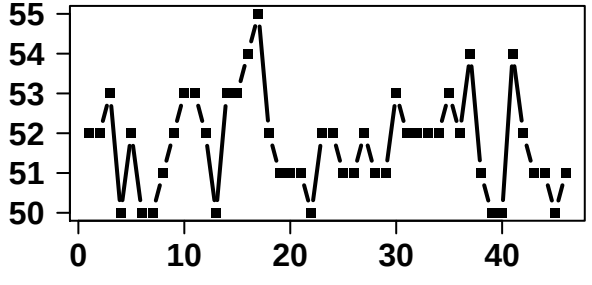

52.0
51.8
51.6
51.4
51.2
51.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

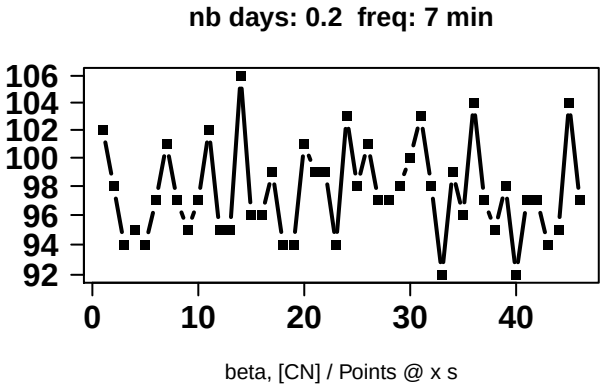

nb days: 0 freq: 0 min
101.0
100.5
100.0
99.5
99.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

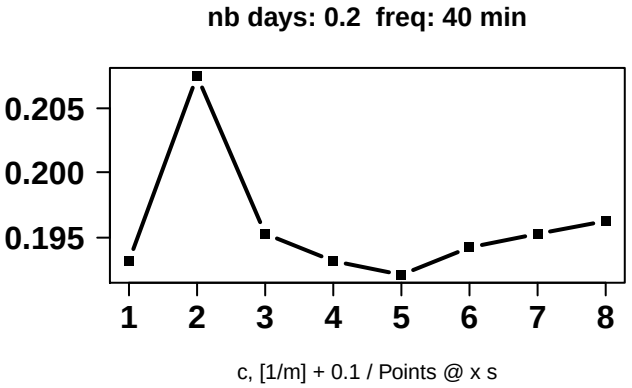

2013−06−21 00:15:10 2013−06−21 05:35:12
Pressure in

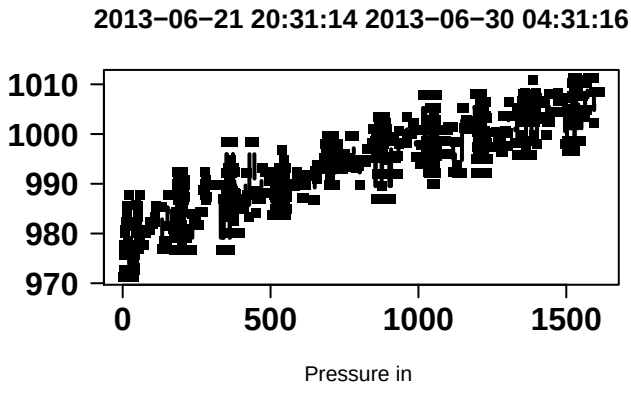

black 0.17 red 0.52
Seawater potential density anomaly
Seawater density − 1000

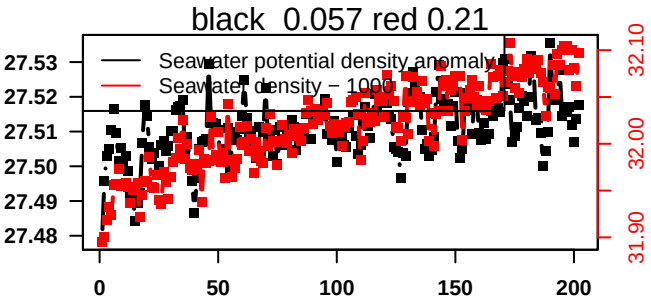

lovbio010b_027_03_06.txt
CDOM, [CN] / Points @ x s

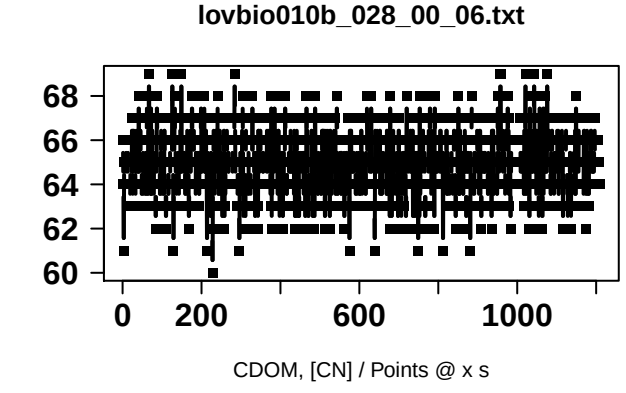

chl, [CN] / Points @ x s

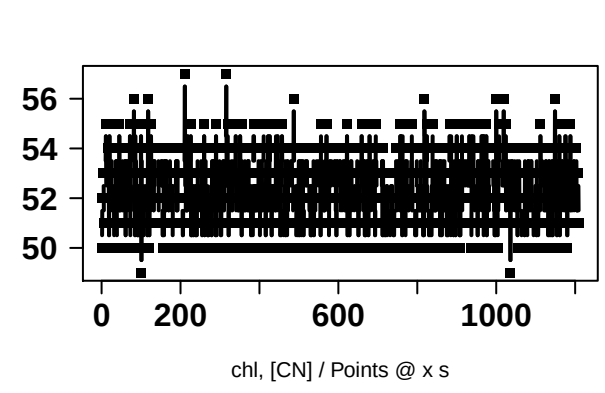

nb days: 0.2 freq: 7 min
beta, [CN] / Points @ x s

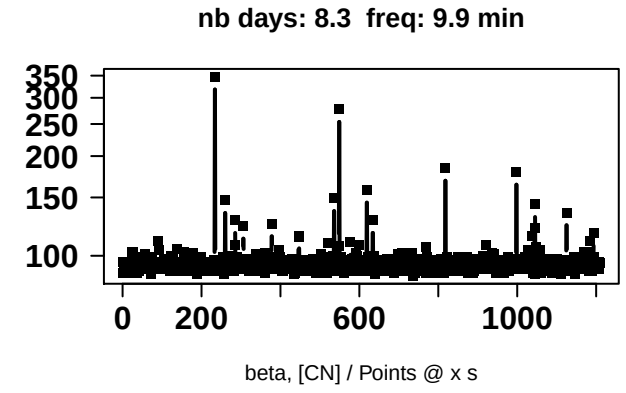

nb days: 0.2 freq: 40 min
c, [1/m] + 0.1 / Points @ x s

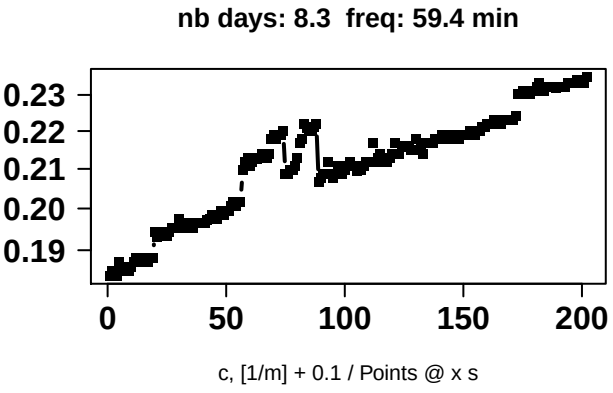

2013−06−21 20:31:14 2013−06−30 04:31:16
1010
1000
990
980
970
0
500
1000
1500
Pressure in

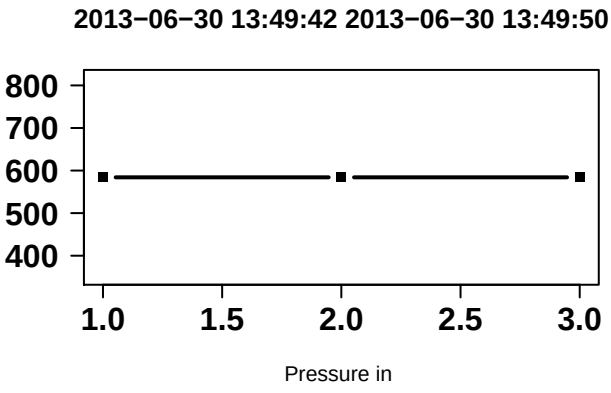

black 0.057 red 0.21
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
27.48
32.10
32.00
31.90
0
50
100
150
200

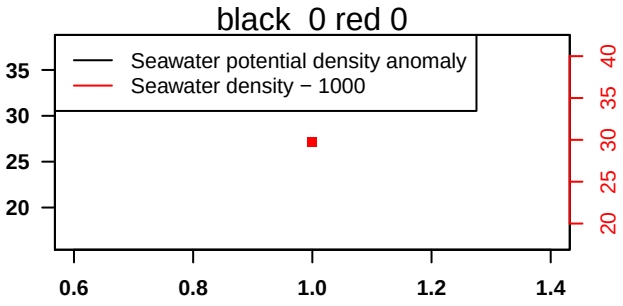

lovbio010b_028_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

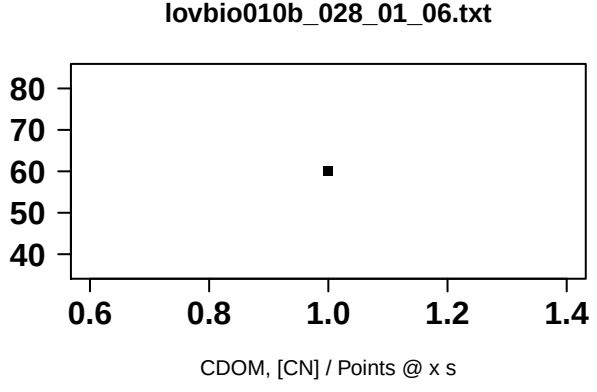

56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

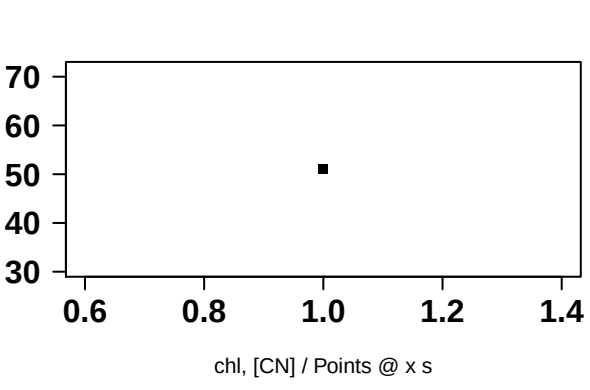

nb days: 8.3 freq: 9.9 min
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

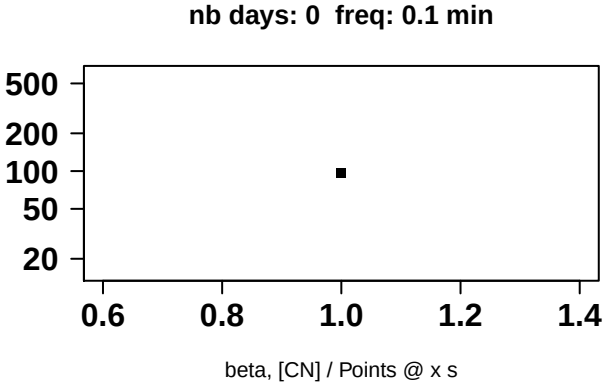

nb days: 8.3 freq: 59.4 min
0.23
0.22
0.21
0.20
0.19
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

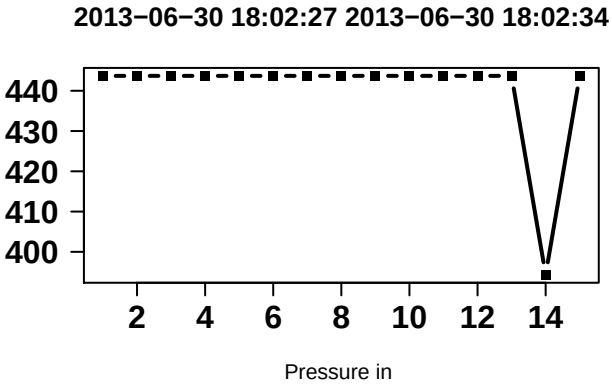

2013−06−30 13:49:42 2013−06−30 13:49:50
800
700
600
500
400
1.0
1.5
2.0
2.5
3.0
Pressure in

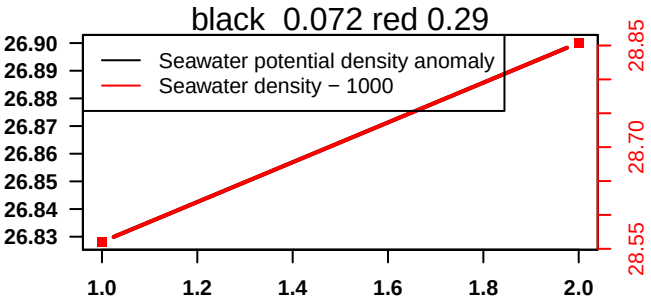

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

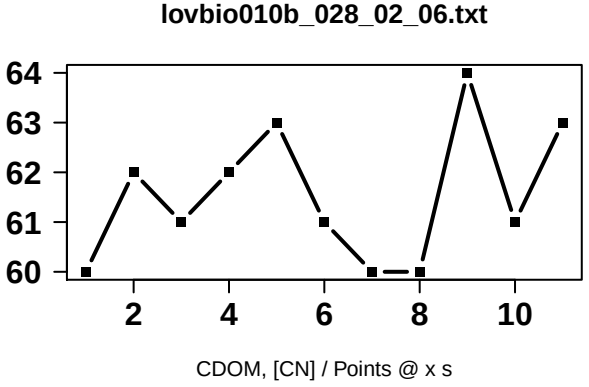

lovbio010b_028_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

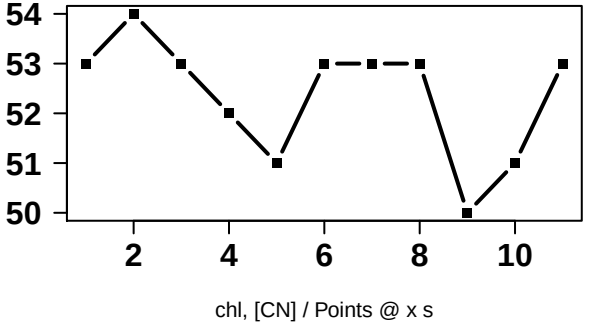

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

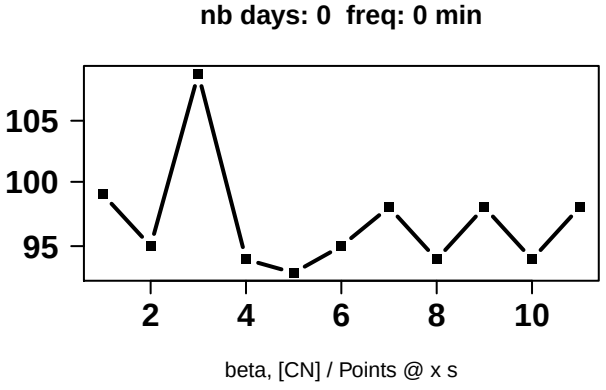

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

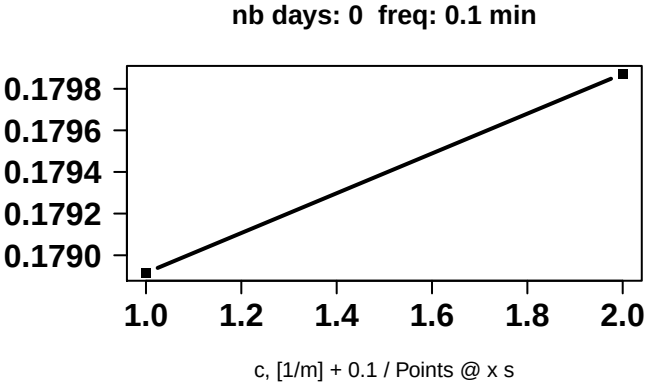

2013−06−30 18:02:27 2013−06−30 18:02:34
440
430
420
410
400
2
4
6
8
10
12
14
Pressure in

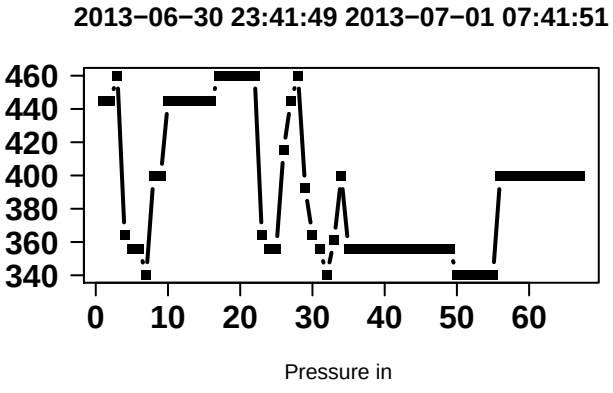

black 0.072 red 0.29
Seawater potential density anomaly
Seawater density − 1000
26.90
26.89
26.88
26.87
26.86
26.85
26.84
26.83
28.85
28.70
28.55
1.0
1.2
1.4
1.6
1.8
2.0

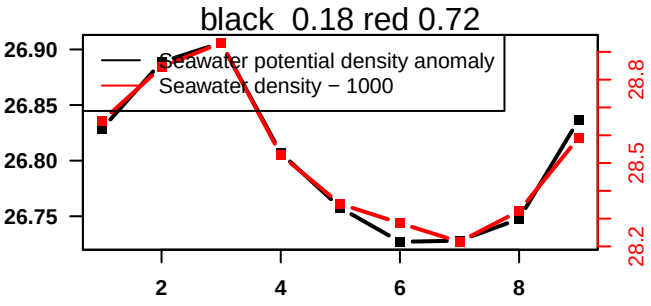

lovbio010b_028_02_06.txt
64
63
62
61
60
2
4
6
8
10
CDOM, [CN] / Points @ x s

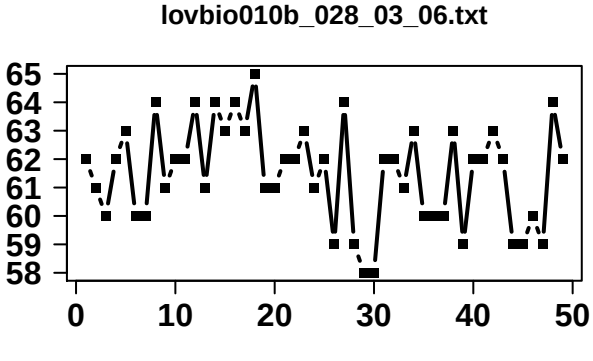

54
53
52
51
50
2
4
6
8
10
chl, [CN] / Points @ x s

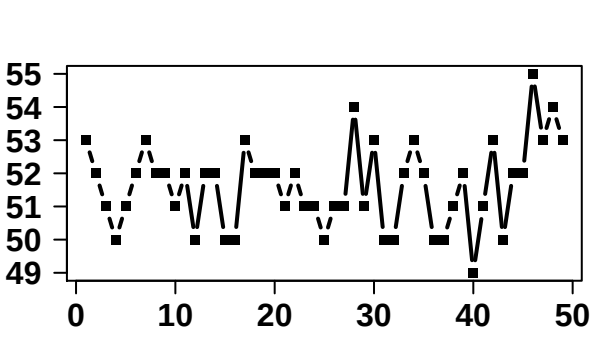

nb days: 0 freq: 0 min
105
100
95
2
4
6
8
10
beta, [CN] / Points @ x s

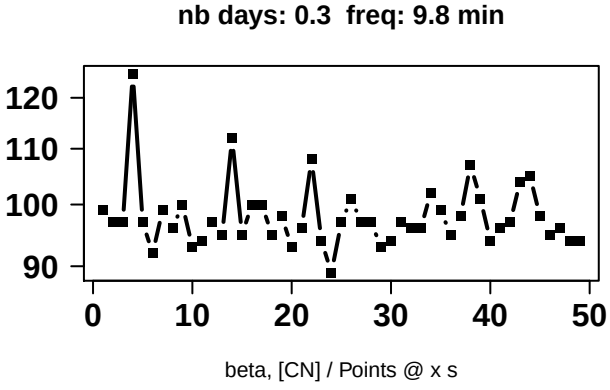

nb days: 0 freq: 0.1 min
0.1798
0.1796
0.1794
0.1792
0.1790
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

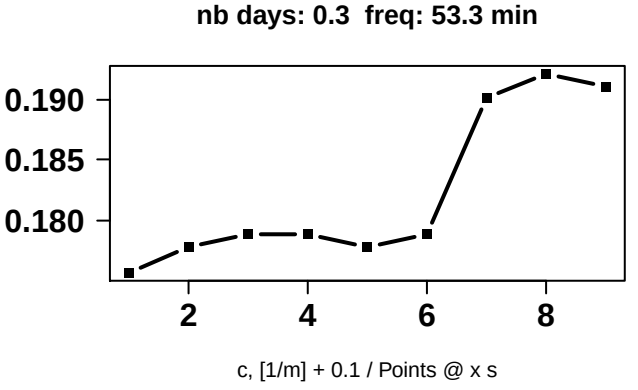

2013−06−30 23:41:49 2013−07−01 07:41:51
460
440
420
400
380
360
340
0
10
20
30
40
50
60
Pressure in

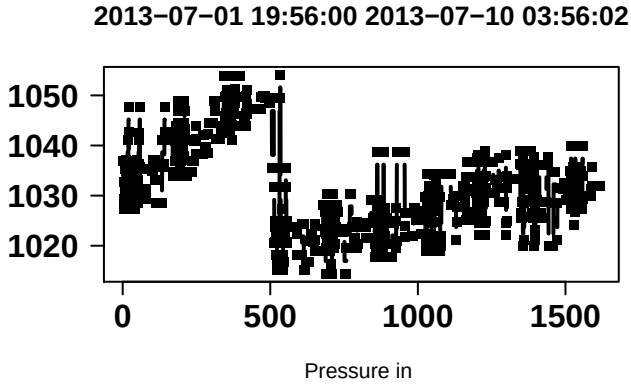

black 0.18 red 0.72
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
26.75
28.8
28.5
28.2
2
4
6
8

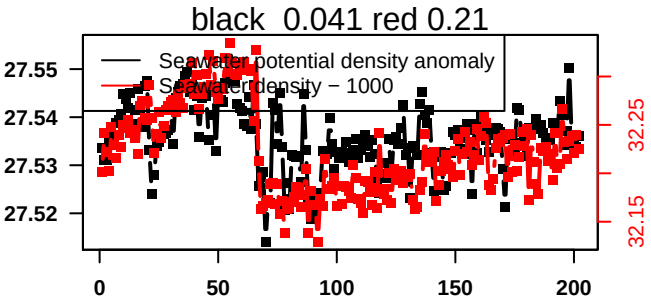

lovbio010b_028_03_06.txt
65
64
63
62
61
60
59
58
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

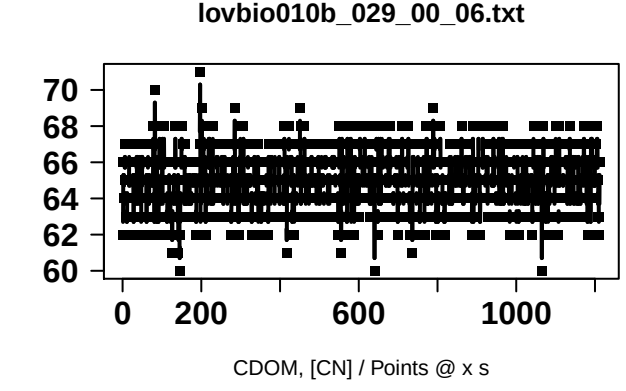

55
54
53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

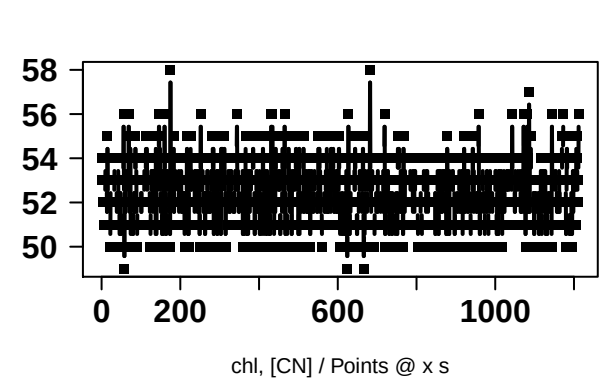

nb days: 0.3 freq: 9.8 min
120
110
100
90
0
10
20
30
40
50
beta, [CN] / Points @ x s

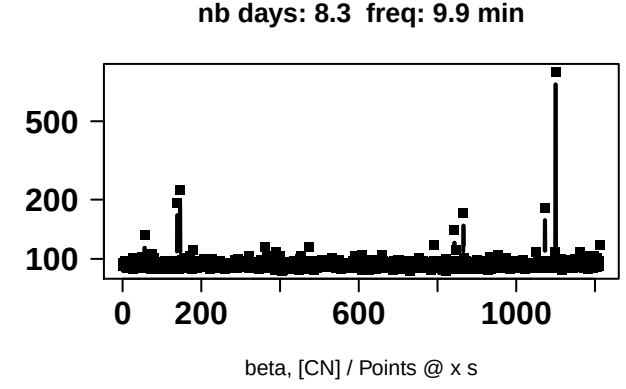

nb days: 0.3 freq: 53.3 min
0.190
0.185
0.180
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

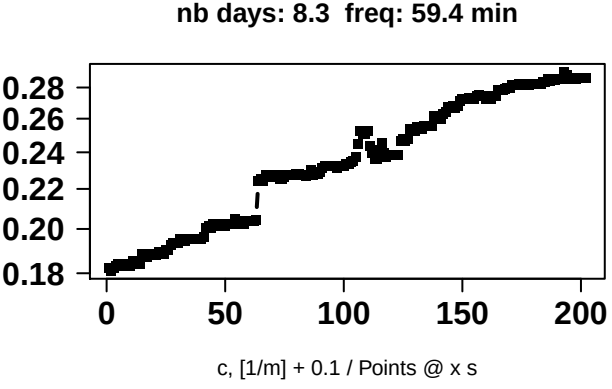

2013−07−01 19:56:00 2013−07−10 03:56:02
1050
1040
1030
1020
0
500
1000
1500
Pressure in

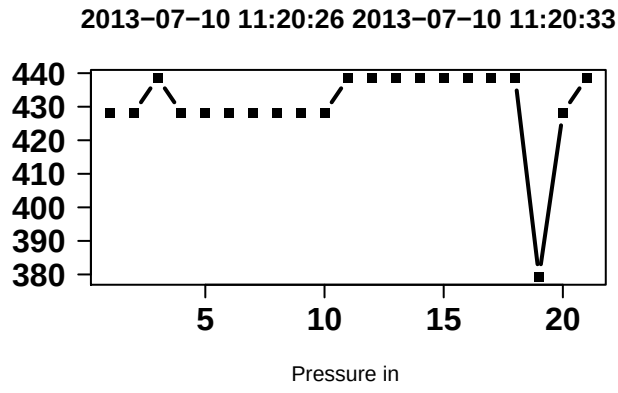

black 0.041 red 0.21
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
32.25
32.15
0
50
100
150
200

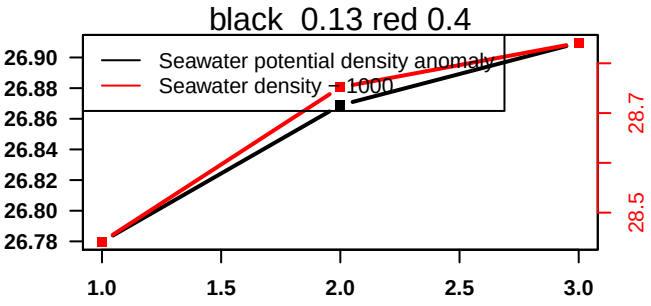

lovbio010b_029_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

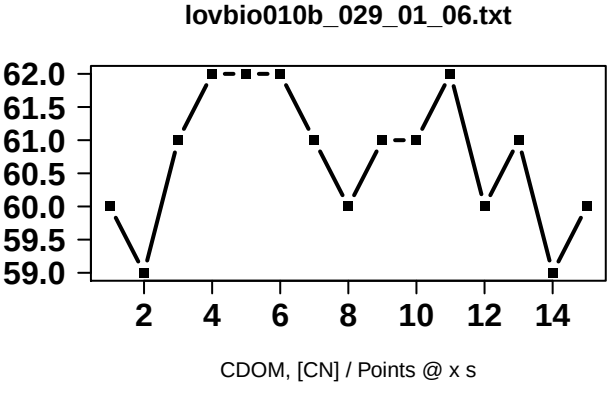

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

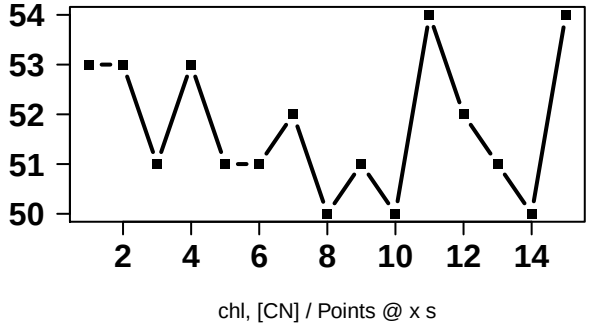

nb days: 8.3 freq: 9.9 min
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

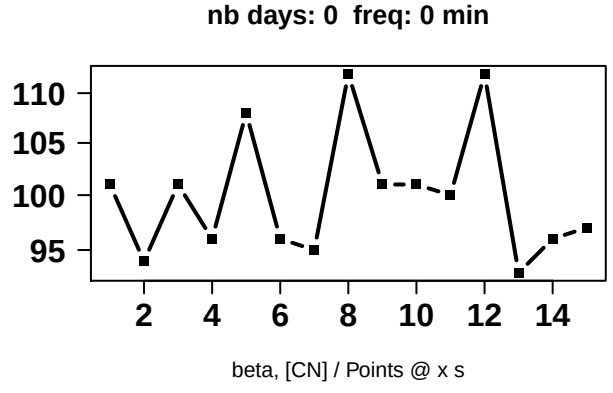

nb days: 8.3 freq: 59.4 min
0.28
0.26
0.24
0.22
0.20
0.18
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

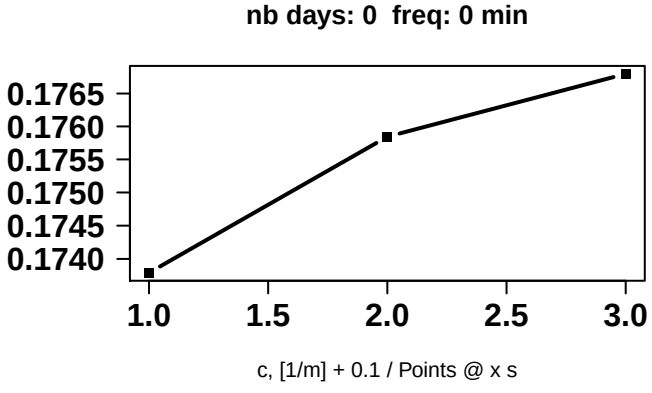

2013−07−10 11:20:26 2013−07−10 11:20:33
440
430
420
410
400
390
380
5
10
15
20
Pressure in

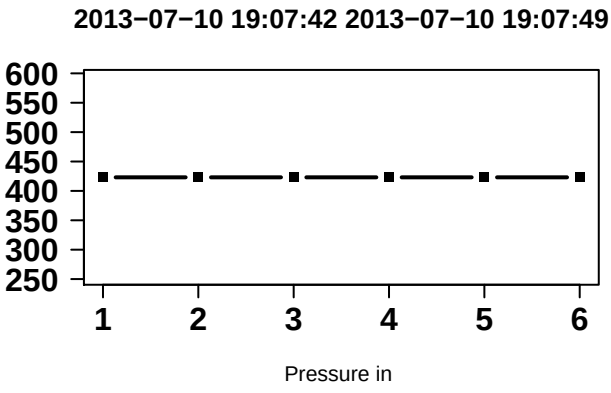

black 0.13 red 0.4
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
26.80
26.78
28.7
28.5
1.0
1.5
2.0
2.5
3.0

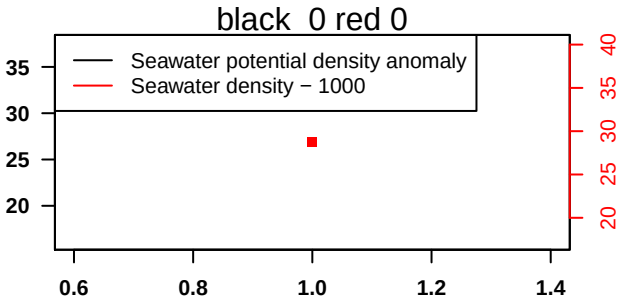

lovbio010b_029_01_06.txt
62.0
61.5
61.0
60.5
60.0
59.5
59.0
2
4
6
8
10
12
14
CDOM, [CN] / Points @ x s

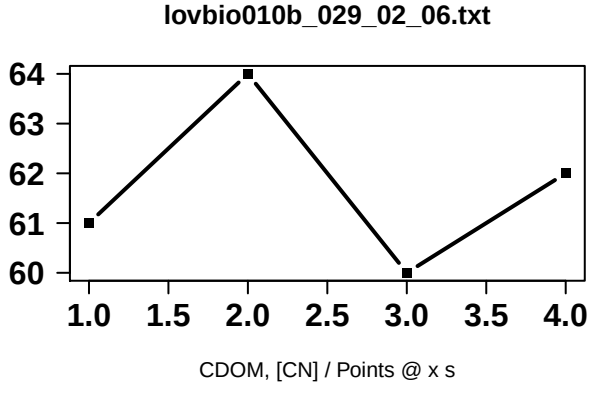

54
53
52
51
50
2
4
6
8
10
12
14
chl, [CN] / Points @ x s

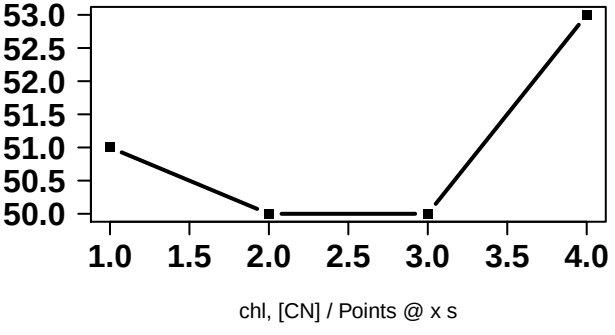

nb days: 0 freq: 0 min
110
105
100
95
2
4
6
8
10
12
14
beta, [CN] / Points @ x s

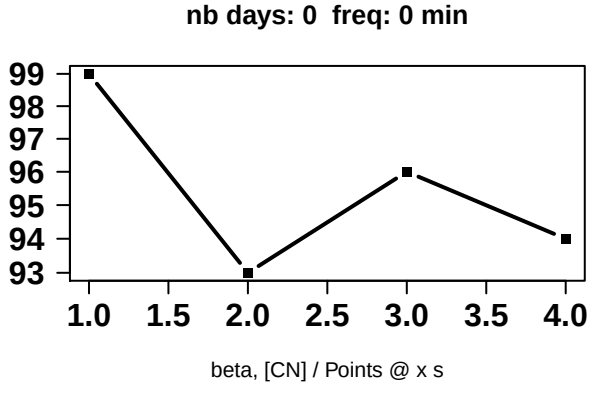

nb days: 0 freq: 0 min
0.1765
0.1760
0.1755
0.1750
0.1745
0.1740
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

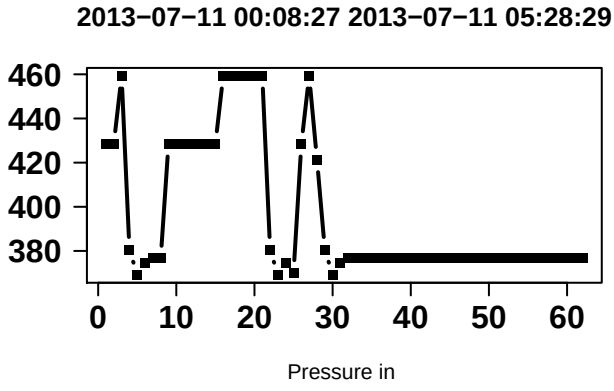

2013−07−10 19:07:42 2013−07−10 19:07:49
600
550
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

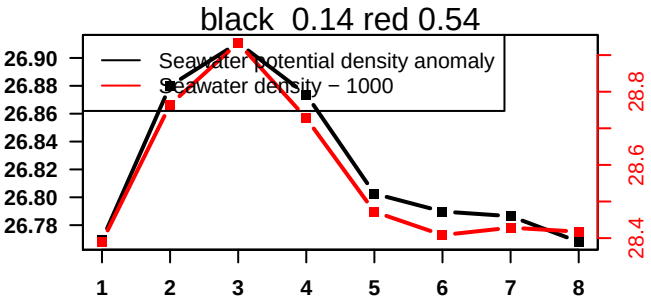

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

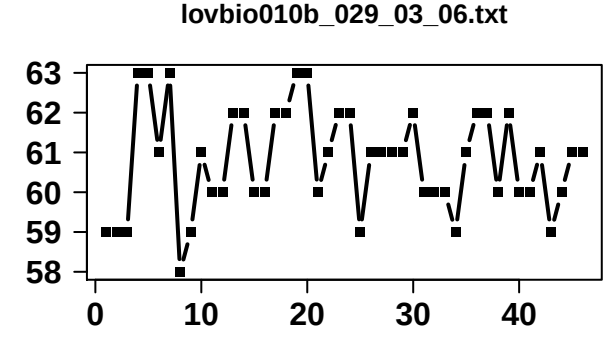

lovbio010b_029_02_06.txt
64
63
62
61
60
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

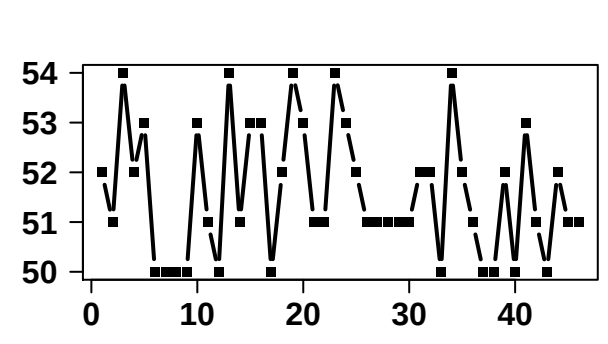

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

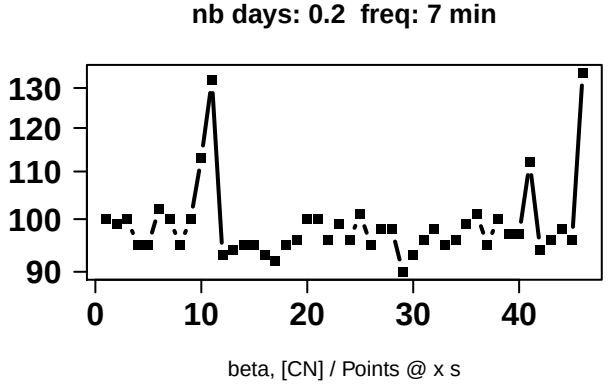

nb days: 0 freq: 0 min
99
98
97
96
95
94
93
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

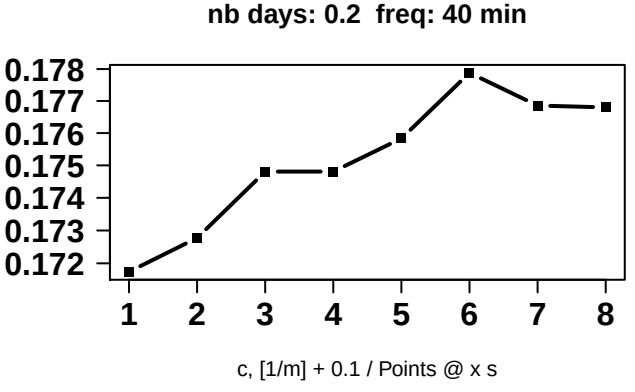

2013−07−11 00:08:27 2013−07−11 05:28:29
460
440
420
400
380
0
10
20
30
40
50
60
Pressure in

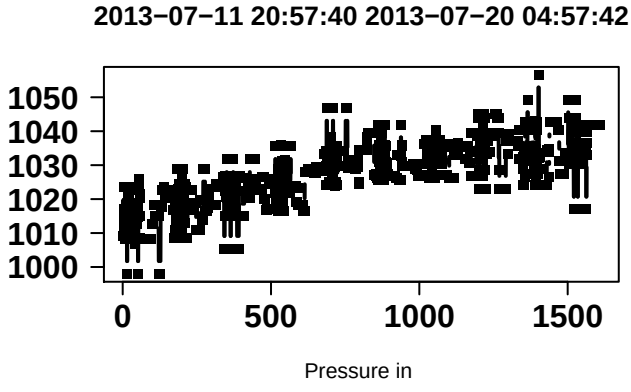

black 0.14 red 0.54
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
26.80
26.78
28.8
28.6
28.4
1
2
3
4
5
6
7
8

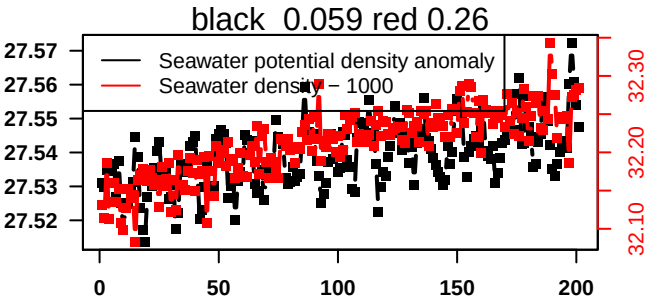

lovbio010b_029_03_06.txt
63
62
61
60
59
58
0
10
20
30
40
CDOM, [CN] / Points @ x s

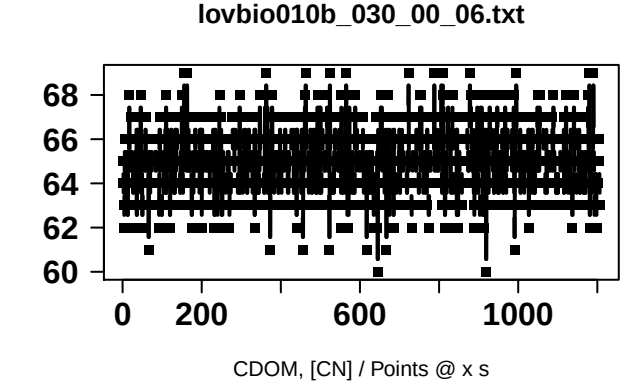

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

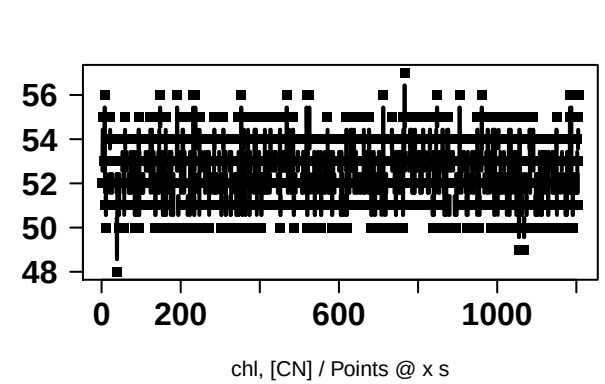

nb days: 0.2 freq: 7 min
130
120
110
100
90
0
10
20
30
40
beta, [CN] / Points @ x s

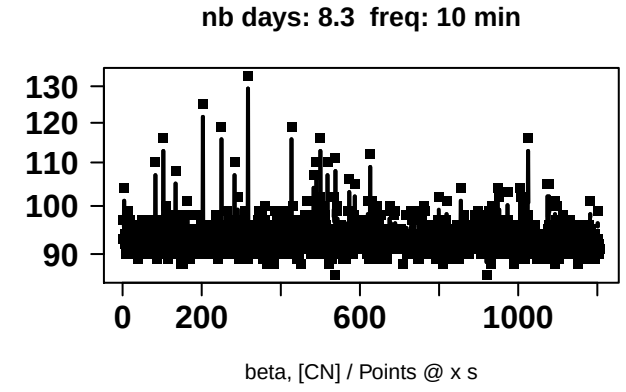

nb days: 0.2 freq: 40 min
0.178
0.177
0.176
0.175
0.174
0.173
0.172
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

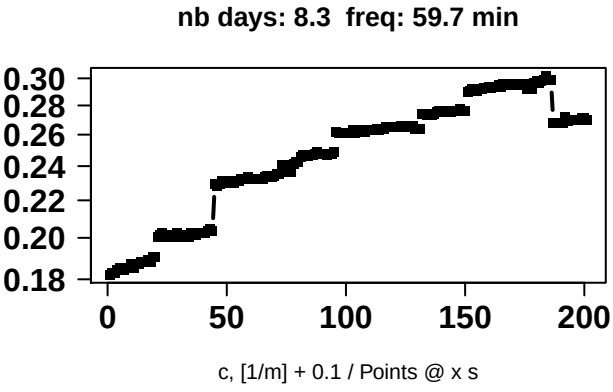

2013−07−11 20:57:40 2013−07−20 04:57:42
1050
1040
1030
1020
1010
1000
0
500
1000
1500
Pressure in

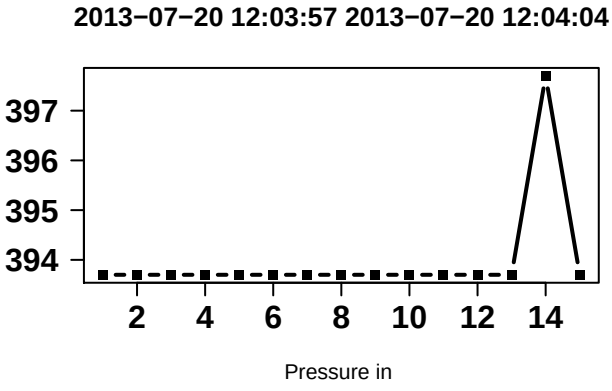

black 0.059 red 0.26
Seawater potential density anomaly
Seawater density − 1000
27.57
27.56
27.55
27.54
27.53
27.52
32.30
32.20
32.10
0
50
100
150
200

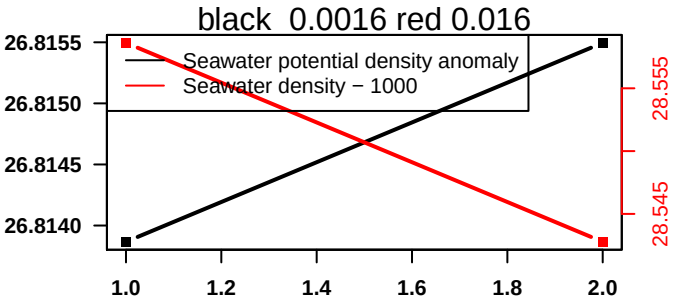

lovbio010b_030_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

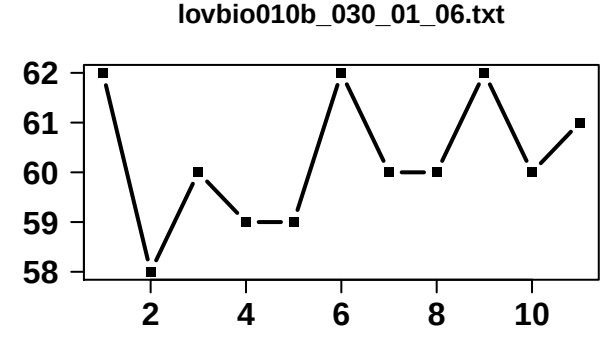

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

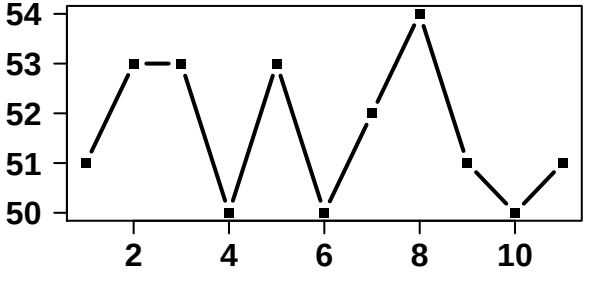

nb days: 8.3 freq: 10 min
130
120
110
100
90
0
200
600
1000
beta, [CN] / Points @ x s

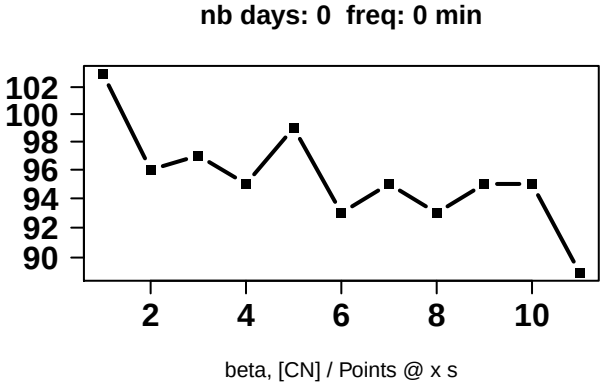

nb days: 8.3 freq: 59.7 min
0.30
0.28
0.26
0.24
0.22
0.20
0.18
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

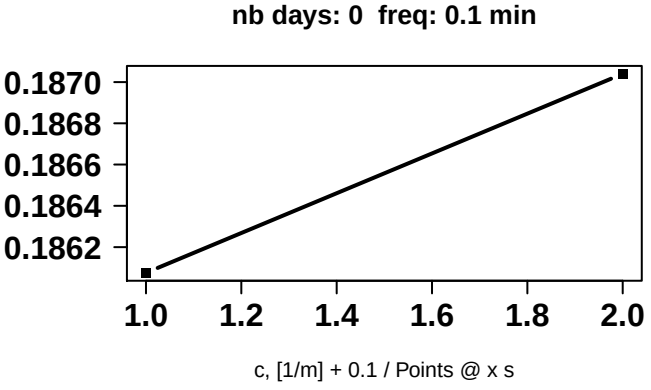

2013−07−20 12:03:57 2013−07−20 12:04:04
397
396
395
394
2
4
6
8
10
12
14
Pressure in

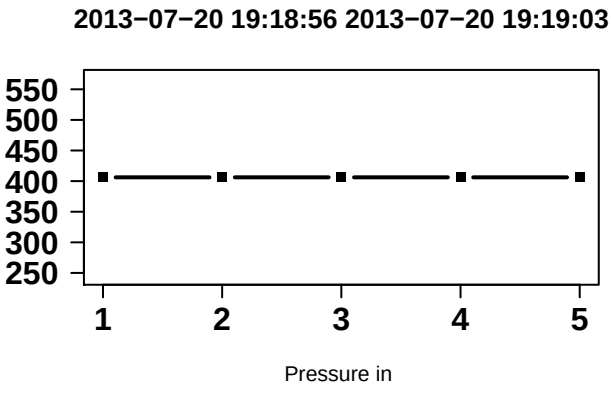

black 0.0016 red 0.016
Seawater potential density anomaly
Seawater density − 1000
26.8155
26.8150
26.8145
26.8140
28.555
28.545
1.0
1.2
1.4
1.6
1.8
2.0

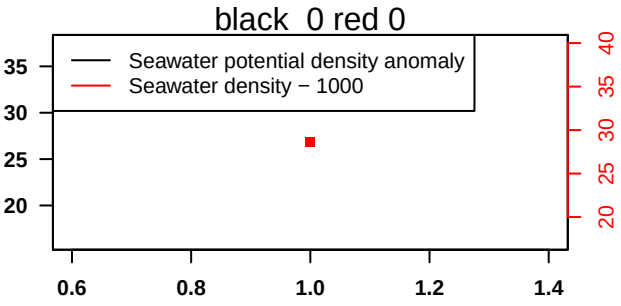

lovbio010b_030_01_06.txt
62
61
60
59
58
2
4
6
8
10
CDOM, [CN] / Points @ x s

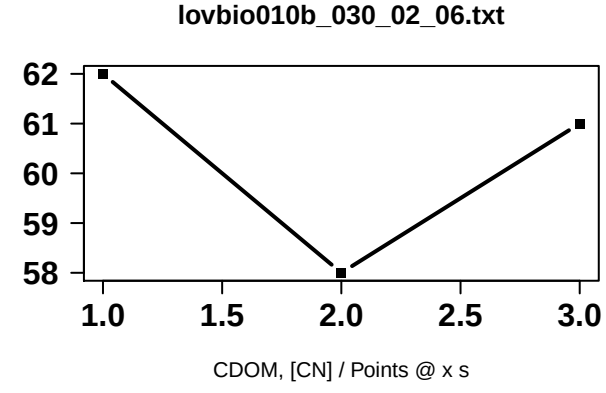

54
53
52
51
50
2
4
6
8
10
chl, [CN] / Points @ x s

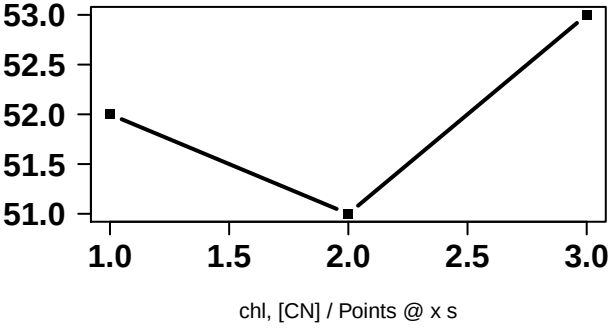

nb days: 0 freq: 0 min
102
100
98
96
94
92
90
2
4
6
8
10
beta, [CN] / Points @ x s

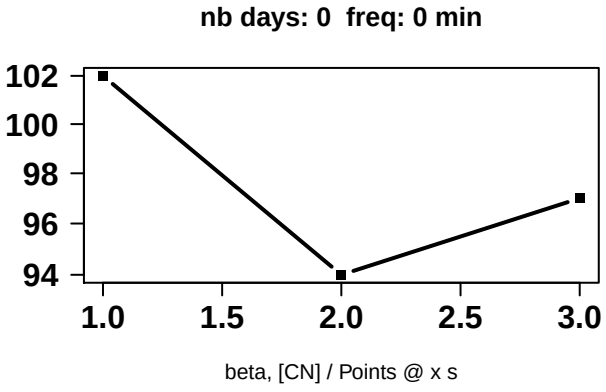

nb days: 0 freq: 0.1 min
0.1870
0.1868
0.1866
0.1864
0.1862
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

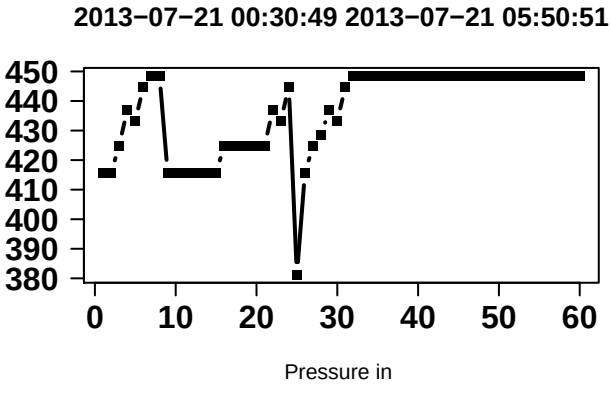

2013−07−20 19:18:56 2013−07−20 19:19:03
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

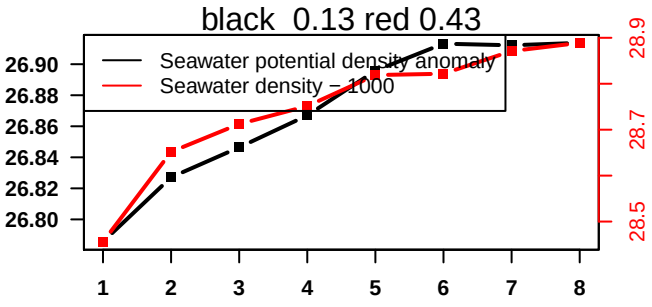

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

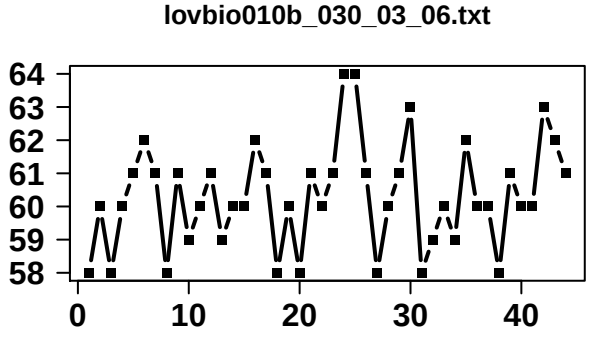

lovbio010b_030_02_06.txt
62
61
60
59
58
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

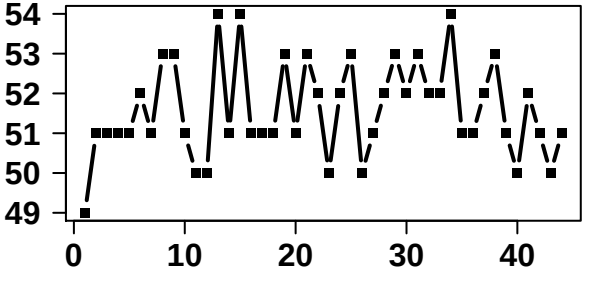

53.0
52.5
52.0
51.5
51.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

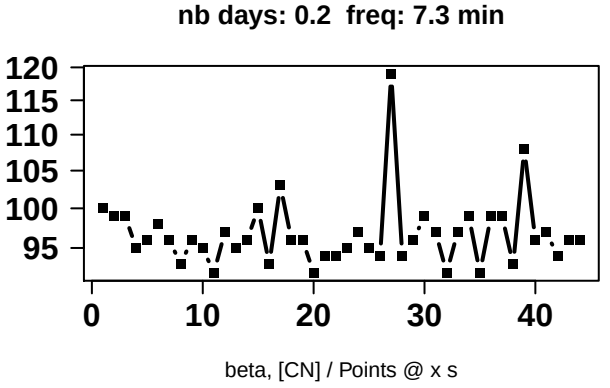

nb days: 0 freq: 0 min
102
100
98
96
94
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

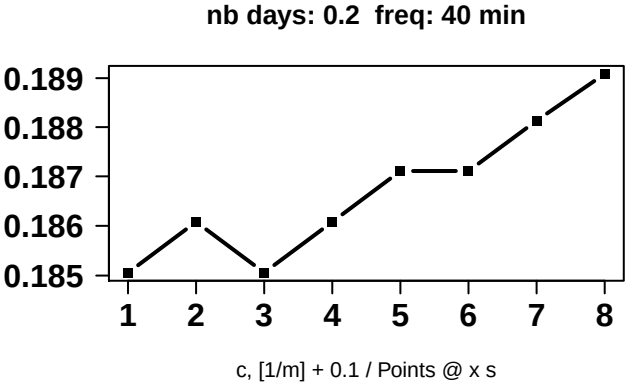

2013−07−21 00:30:49 2013−07−21 05:50:51
Pressure in

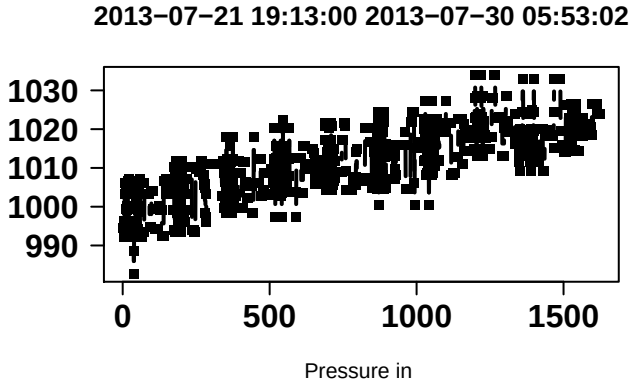

black 0.13 red 0.43
Seawater potential density anomaly
Seawater density − 1000

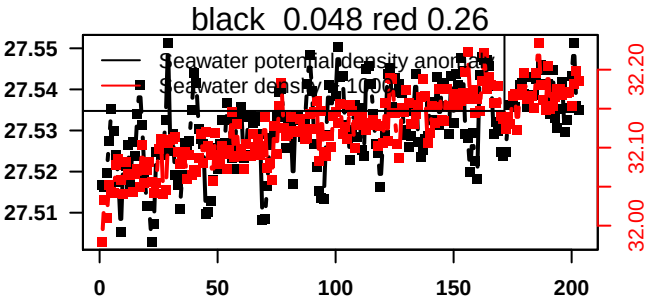

lovbio010b_030_03_06.txt
CDOM, [CN] / Points @ x s

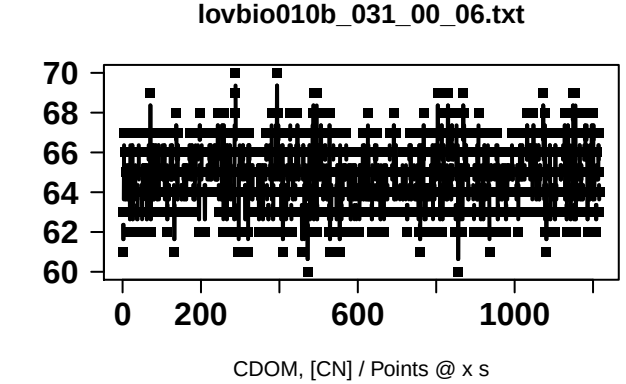

chl, [CN] / Points @ x s

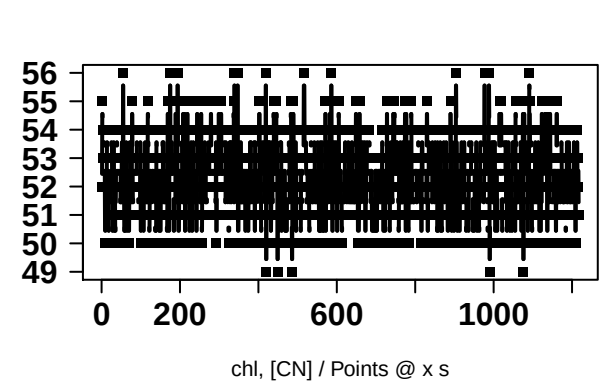

nb days: 0.2 freq: 7.3 min
beta, [CN] / Points @ x s

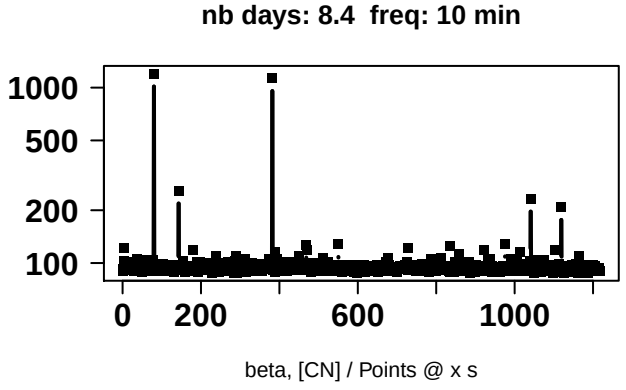

nb days: 0.2 freq: 40 min
c, [1/m] + 0.1 / Points @ x s

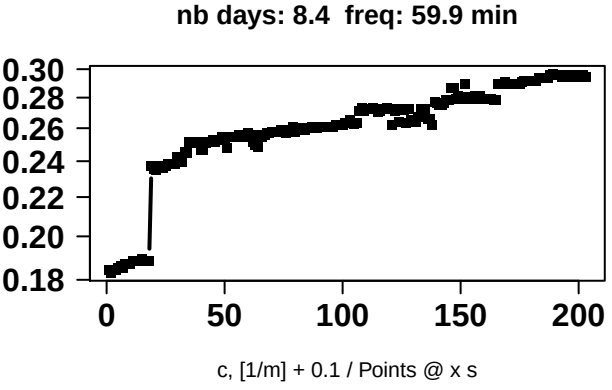

2013−07−21 19:13:00 2013−07−30 05:53:02
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

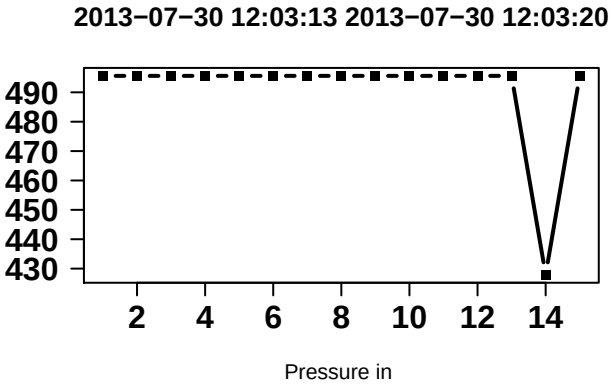

black 0.048 red 0.26
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
32.20
32.10
32.00
0
50
100
150
200

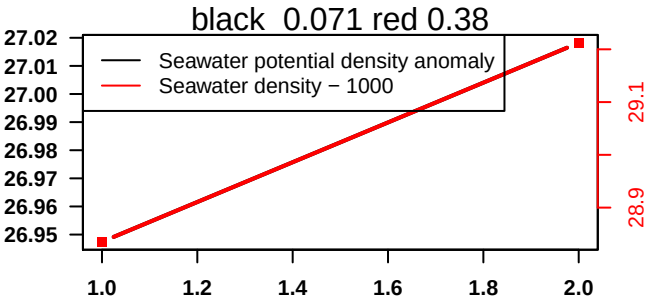

lovbio010b_031_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

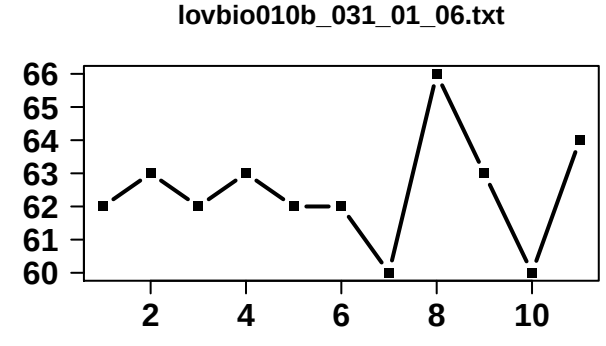

56
55
54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

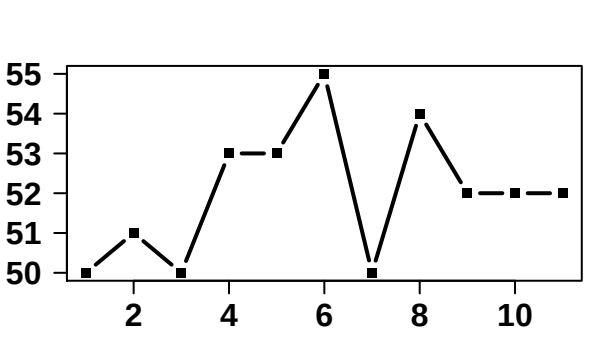

nb days: 8.4 freq: 10 min
1000
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

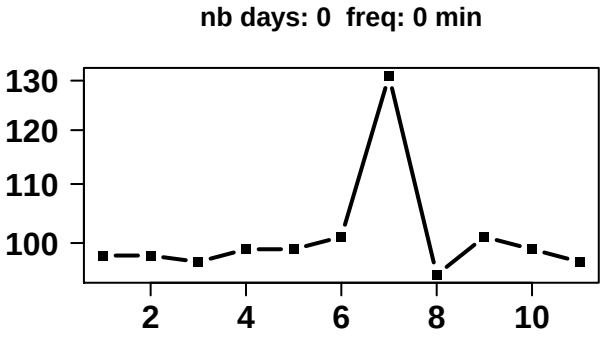

nb days: 8.4 freq: 59.9 min
0.30
0.28
0.26
0.24
0.22
0.20
0.18
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

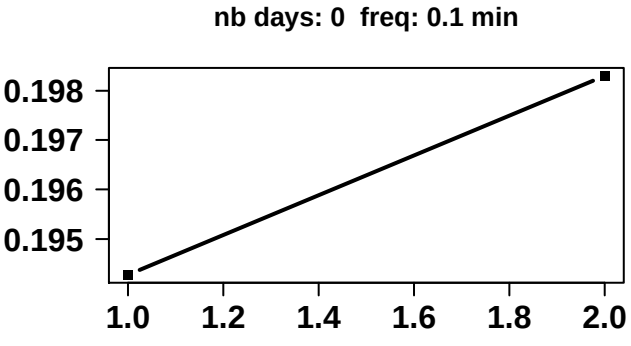

2013−07−30 12:03:13 2013−07−30 12:03:20
490
480
470
460
450
440
430
2
4
6
8
10
12
14
Pressure in

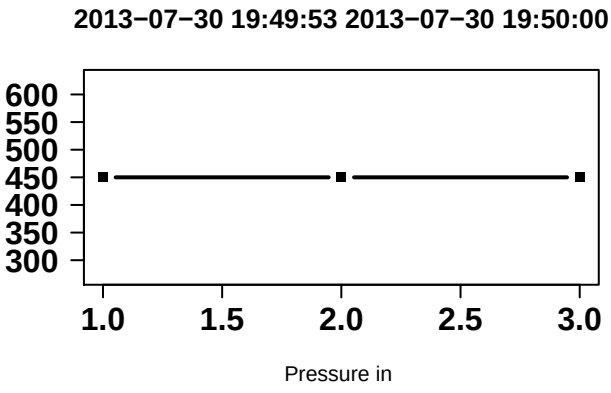

black 0.071 red 0.38
Seawater potential density anomaly
Seawater density − 1000
27.02
27.01
27.00
26.99
26.98
26.97
26.96
26.95
29.1
28.9
1.0
1.2
1.4
1.6
1.8
2.0

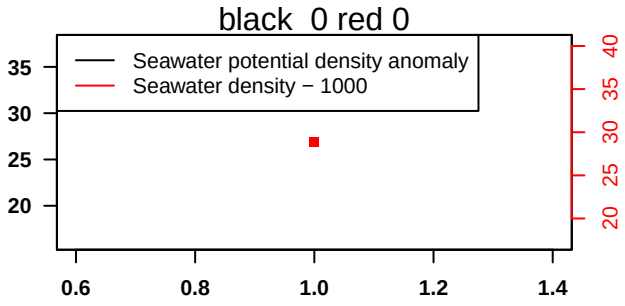

lovbio010b_031_01_06.txt
66
65
64
63
62
61
60
2
4
6
8
10
CDOM, [CN] / Points @ x s

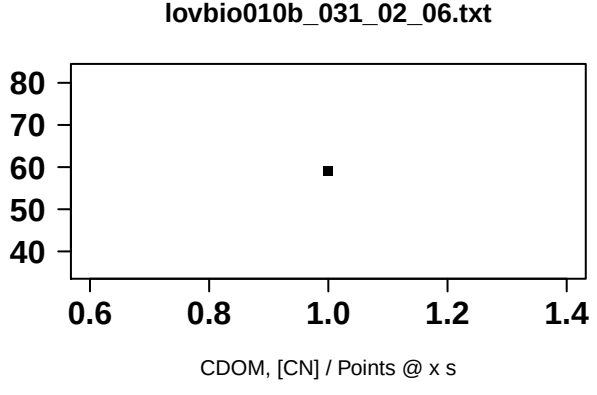

55
54
53
52
51
50
2
4
6
8
10
chl, [CN] / Points @ x s

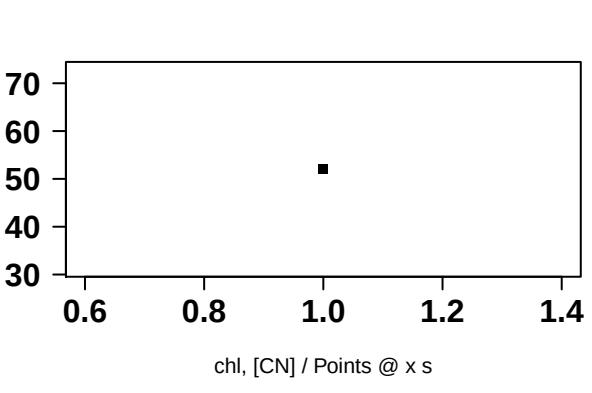

nb days: 0 freq: 0 min
130
120
110
100
2
4
6
8
10
beta, [CN] / Points @ x s

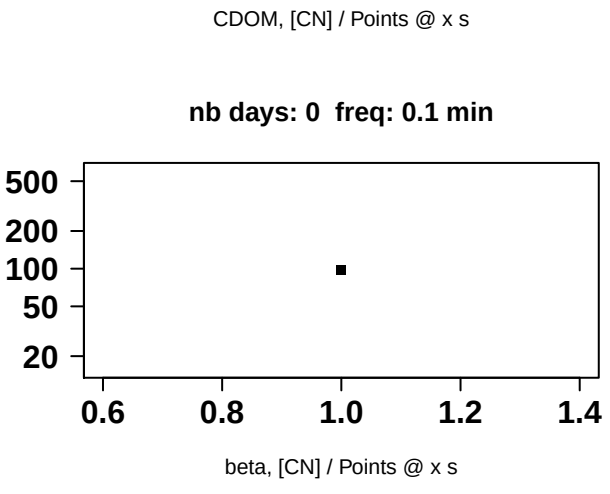

nb days: 0 freq: 0.1 min
0.198
0.197
0.196
0.195
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

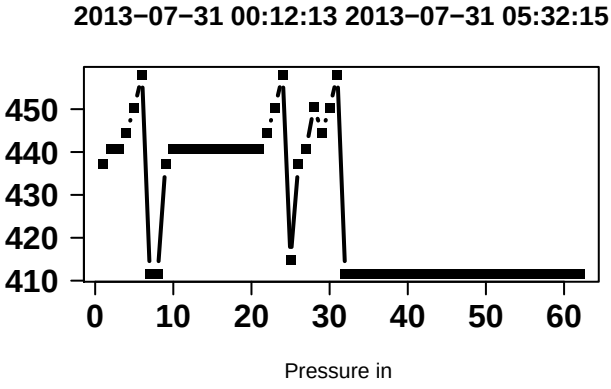

2013−07−30 19:49:53 2013−07−30 19:50:00
600
550
500
450
400
350
300
1.0
1.5
2.0
2.5
3.0
Pressure in

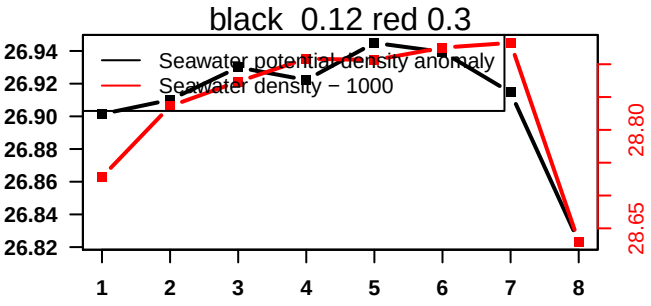

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

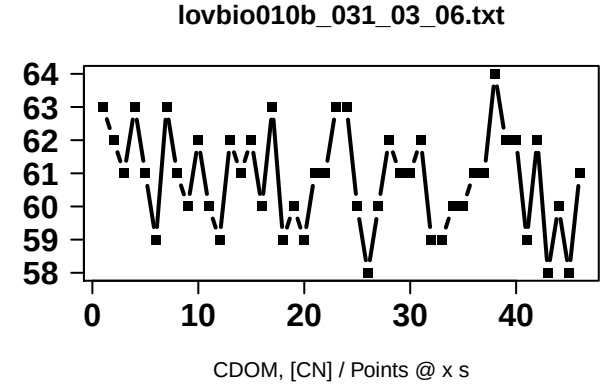

lovbio010b_031_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

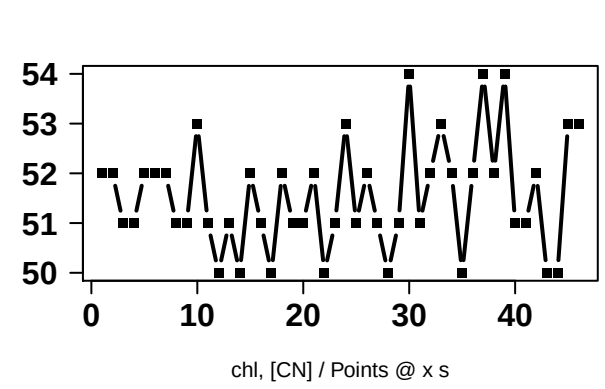

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

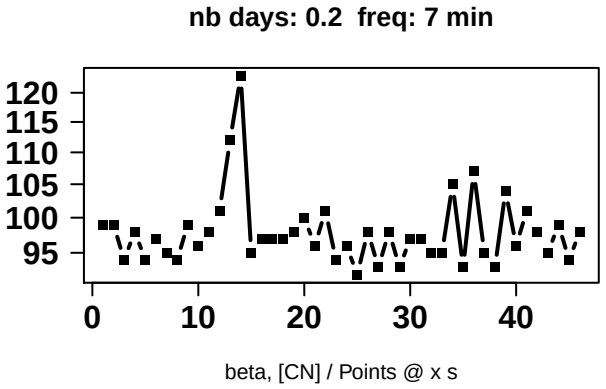

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

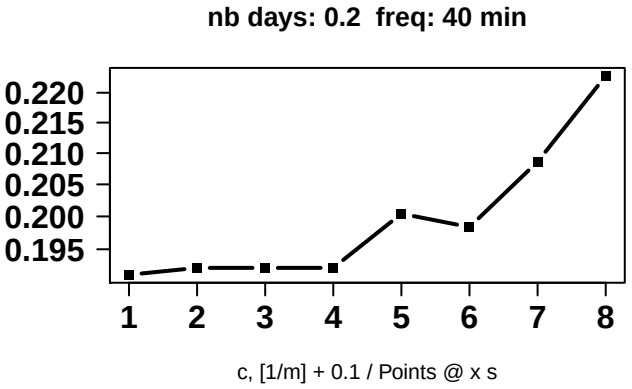

2013−07−31 00:12:13 2013−07−31 05:32:15
450
440
430
420
410
0
10
20
30
40
50
60
Pressure in

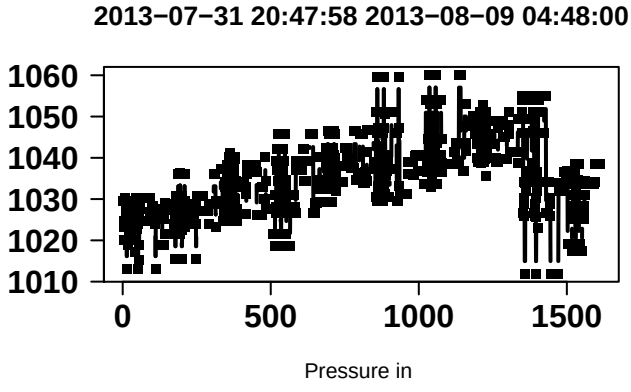

black 0.12 red 0.3
Seawater potential density anomaly
Seawater density − 1000
26.94
26.92
26.90
26.88
26.86
26.84
26.82
28.80
28.65
1
2
3
4
5
6
7
8

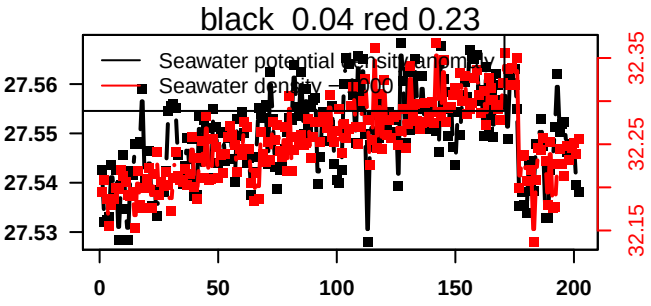

lovbio010b_031_03_06.txt
64
63
62
61
60
59
58
0
10
20
30
40
CDOM, [CN] / Points @ x s

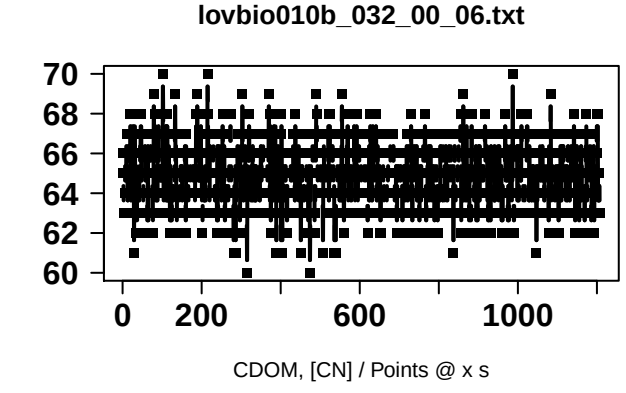

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

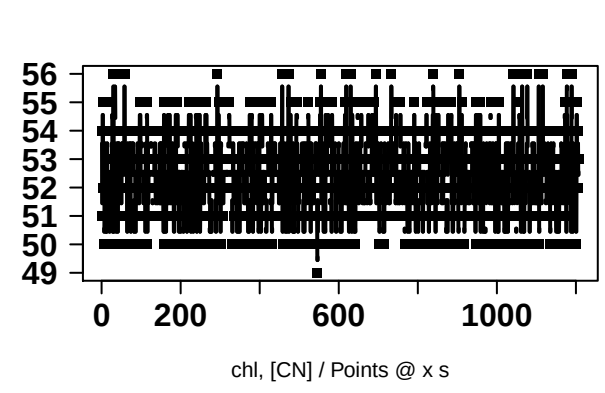

nb days: 0.2 freq: 7 min
120
115
110
105
100
95
0
10
20
30
40
beta, [CN] / Points @ x s

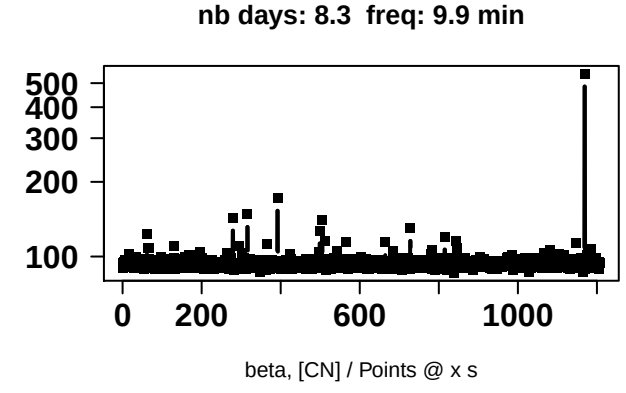

nb days: 0.2 freq: 40 min
0.220
0.215
0.210
0.205
0.200
0.195
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

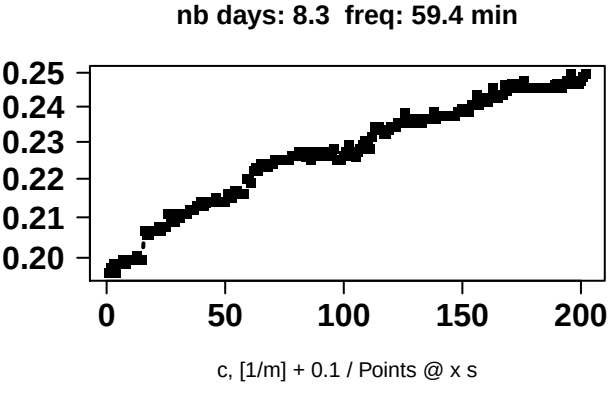

2013−07−31 20:47:58 2013−08−09 04:48:00
1060
1050
1040
1030
1020
1010
0
500
1000
1500
Pressure in

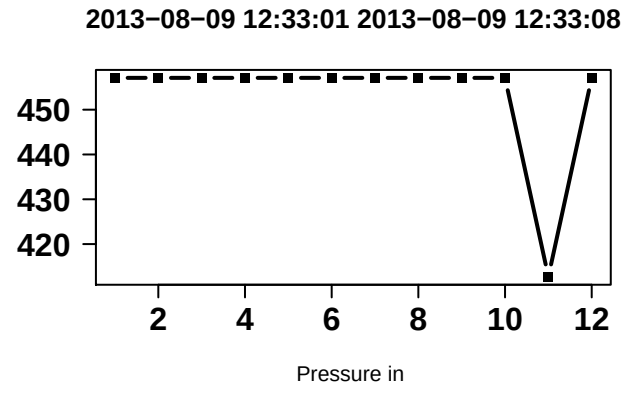

black 0.04 red 0.23
Seawater potential density anomaly
Seawater density
27.56
27.55
27.54
27.53
32.35
32.25
32.15
0
50
100
150
200

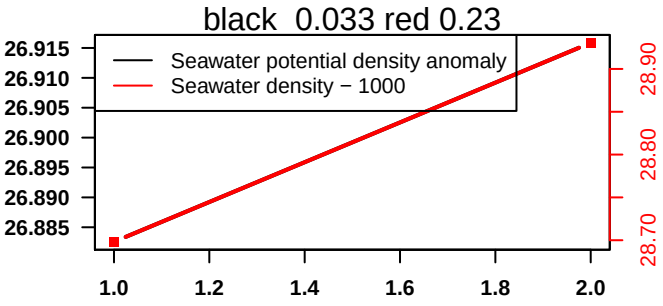

lovbio010b_032_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

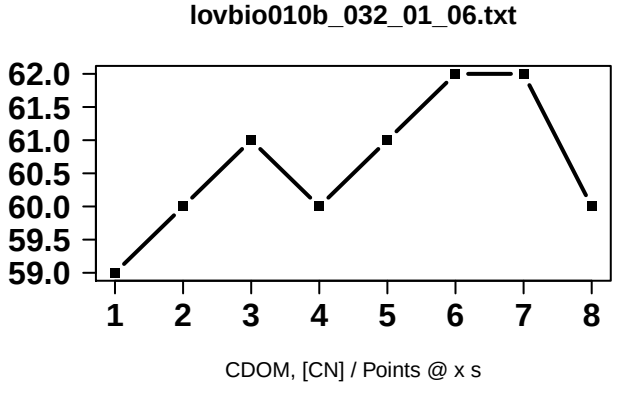

56
55
54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

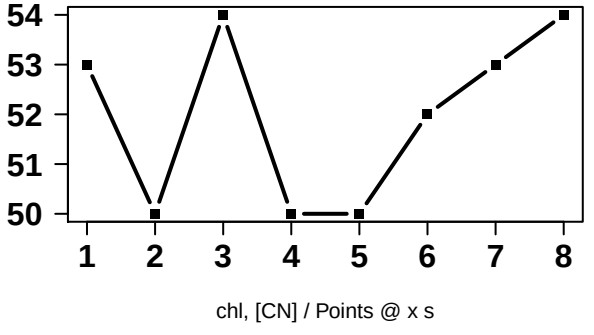

nb days: 8.3 freq: 9.9 min
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

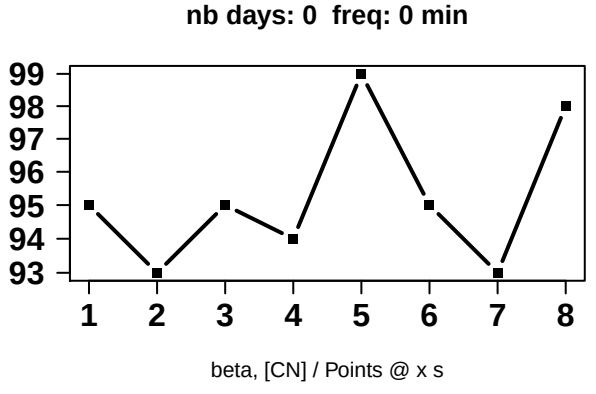

nb days: 8.3 freq: 59.4 min
0.25
0.24
0.23
0.22
0.21
0.20
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

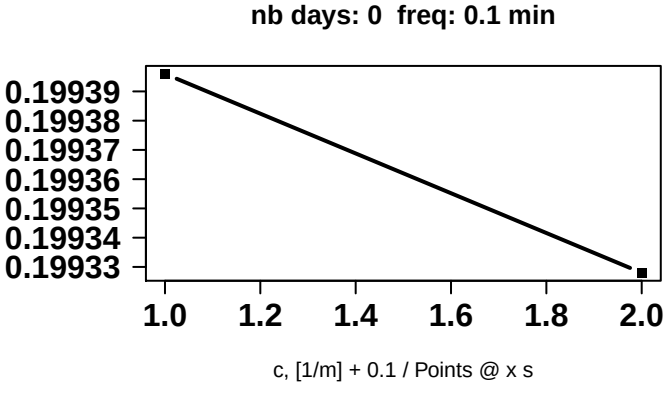

2013−08−09 12:33:01 2013−08−09 12:33:08
450
440
430
420
2
4
6
8
10
12
Pressure in

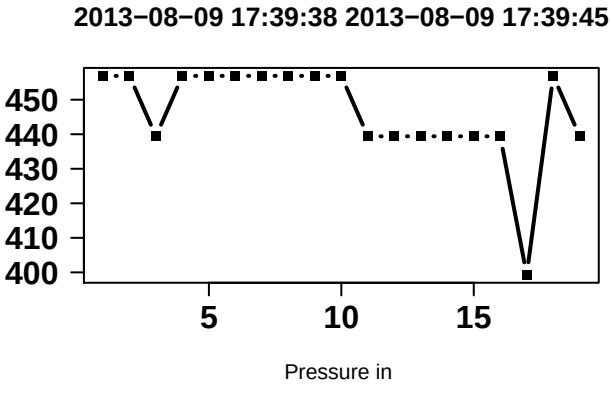

black 0.033 red 0.23
Seawater potential density anomaly
Seawater density − 1000
26.915
26.910
26.905
26.900
26.895
26.890
26.885
28.90
28.80
28.70
1.0
1.2
1.4
1.6
1.8
2.0

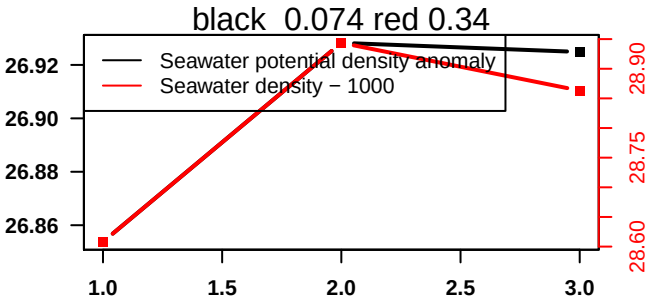

lovbio010b_032_01_06.txt
62.0
61.5
61.0
60.5
60.0
59.5
59.0
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

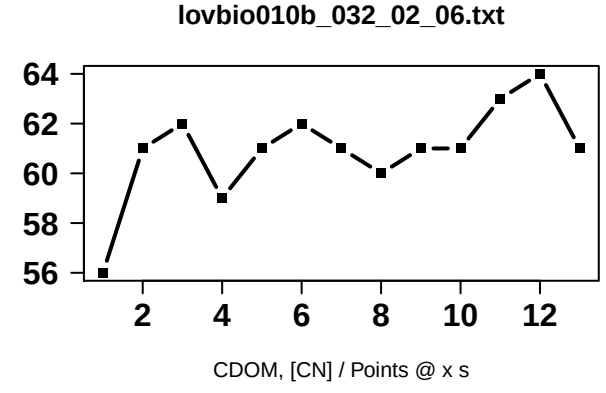

54
53
52
51
50
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

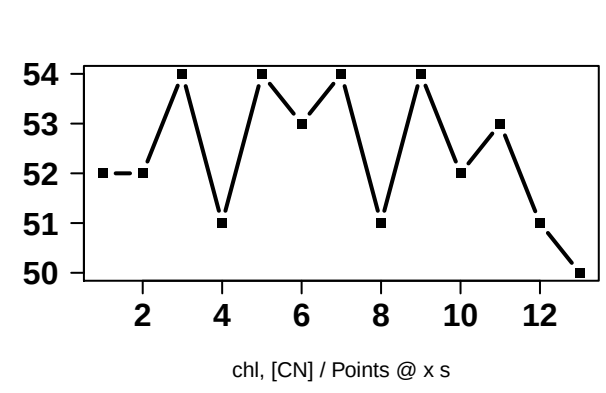

nb days: 0 freq: 0 min
99
98
97
96
95
94
93
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

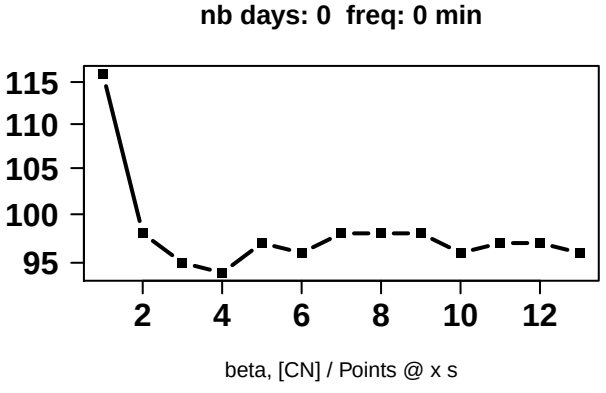

nb days: 0 freq: 0.1 min
0.19939
0.19938
0.19937
0.19936
0.19935
0.19934
0.19933
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

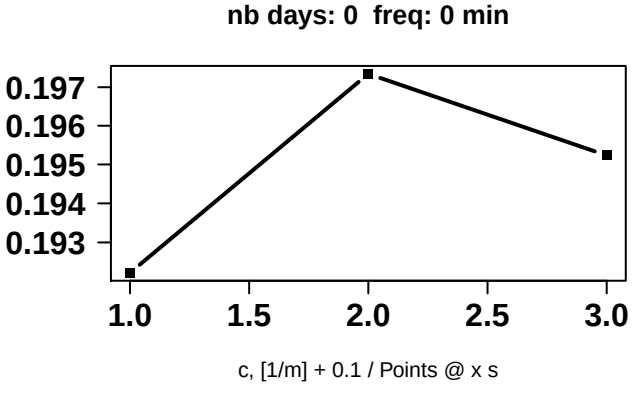

2013−08−09 17:39:38 2013−08−09 17:39:45
450
440
430
420
410
400
5
10
15
Pressure in

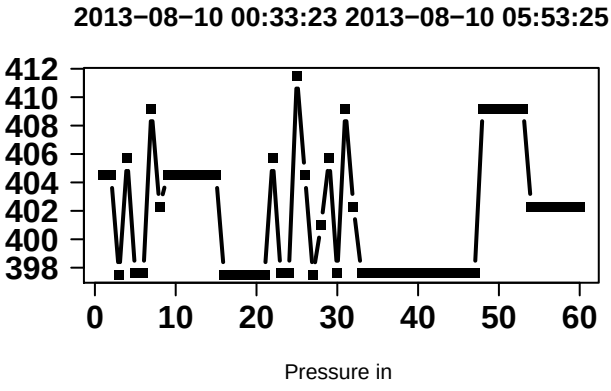

black 0.074 red 0.34
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
28.90
28.75
28.60
1.0
1.5
2.0
2.5
3.0

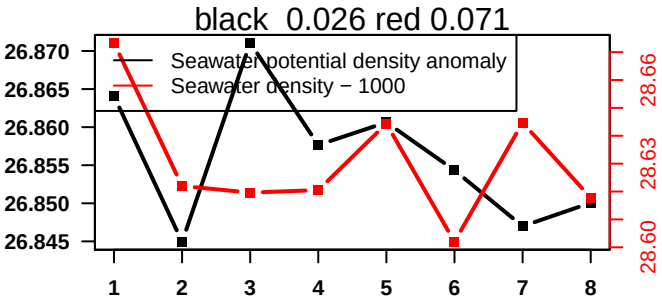

lovbio010b_032_02_06.txt
64
62
60
58
56
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

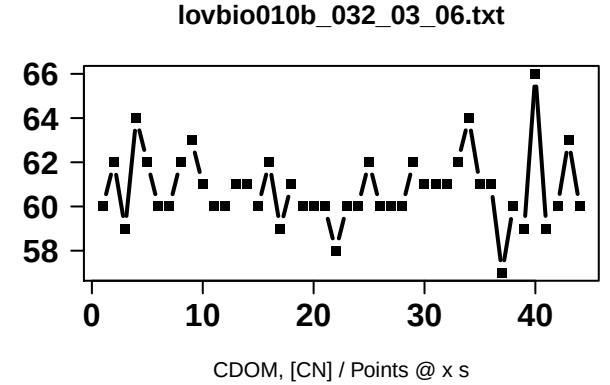

54
53
52
51
50
2
4
6
8
10
12
chl, [CN] / Points @ x s

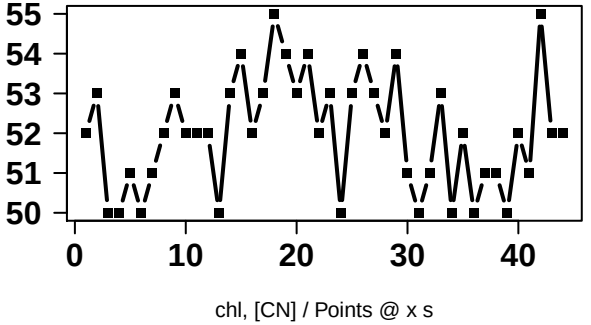

nb days: 0 freq: 0 min
115
110
105
100
95
2
4
6
8
10
12
beta, [CN] / Points @ x s

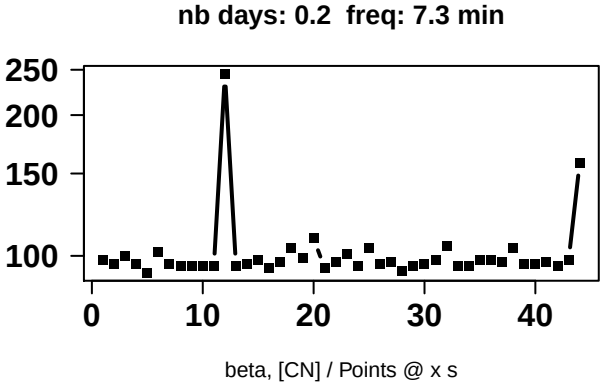

nb days: 0 freq: 0 min
0.197
0.196
0.195
0.194
0.193
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

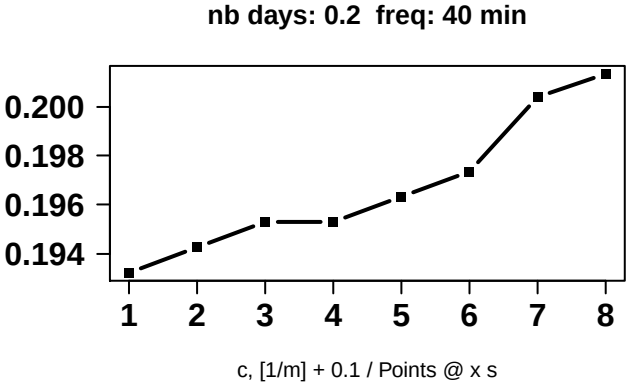

2013−08−10 00:33:23 2013−08−10 05:53:25
412
410
408
406
404
402
400
398
0
10
20
30
40
50
60
Pressure in

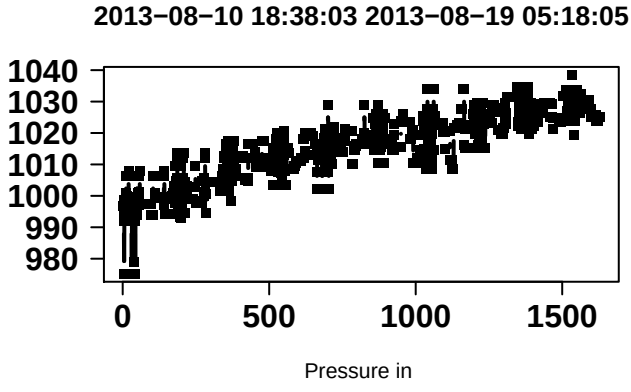

black 0.026 red 0.071
Seawater potential density anomaly
Seawater density − 1000
26.870
26.865
26.860
26.855
26.850
26.845
28.66
28.63
28.60
1
2
3
4
5
6
7
8

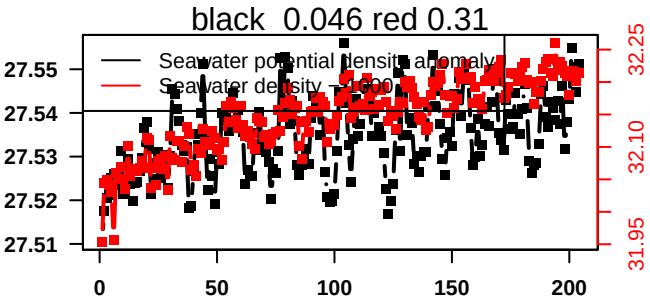

lovbio010b_032_03_06.txt
66
64
62
60
58
0
10
20
30
40
CDOM, [CN] / Points @ x s

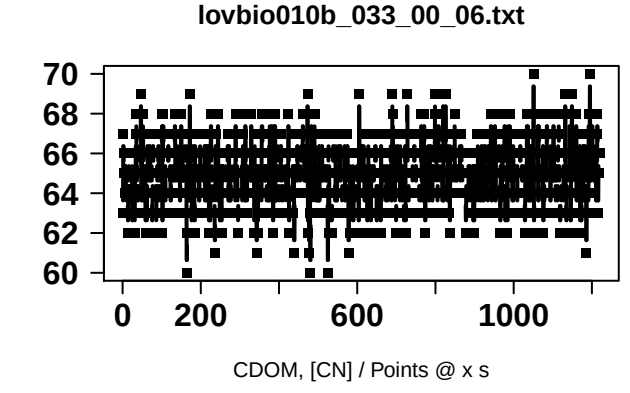

55
54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

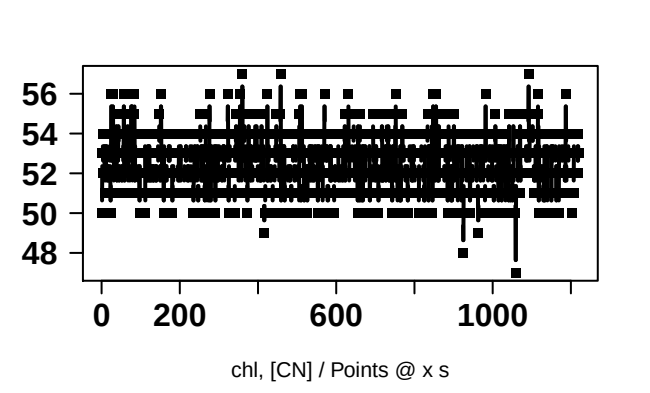

nb days: 0.2 freq: 7.3 min
250
200
150
100
0
10
20
30
40
beta, [CN] / Points @ x s

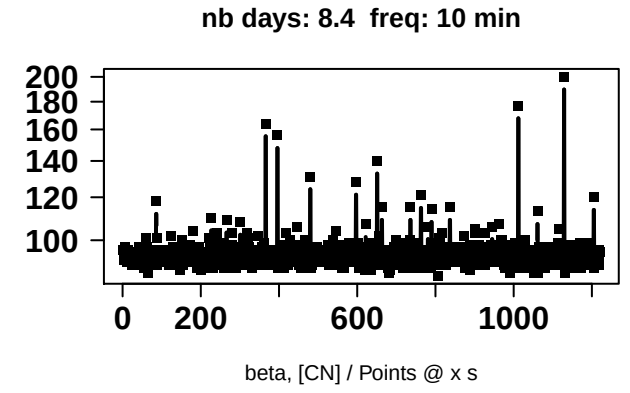

nb days: 0.2 freq: 40 min
0.200
0.198
0.196
0.194
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

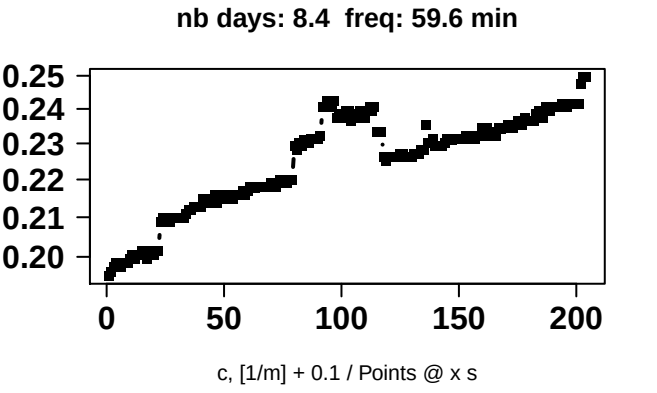

2013−08−10 18:38:03 2013−08−19 05:18:05
1040
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

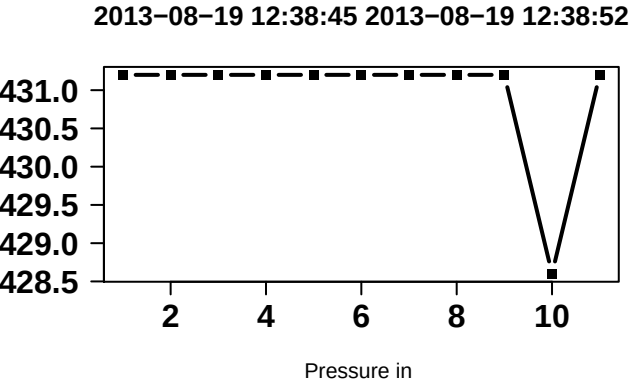

black 0.046 red 0.31
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
32.25
32.10
31.95
0
50
100
150
200

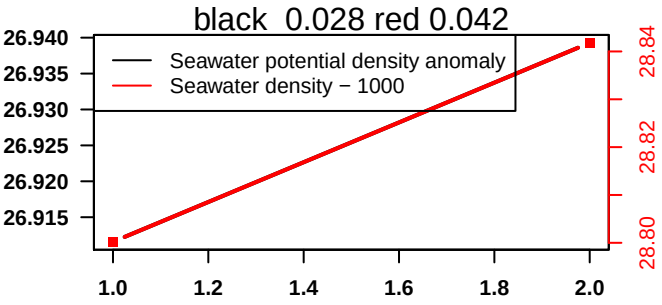

lovbio010b_033_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

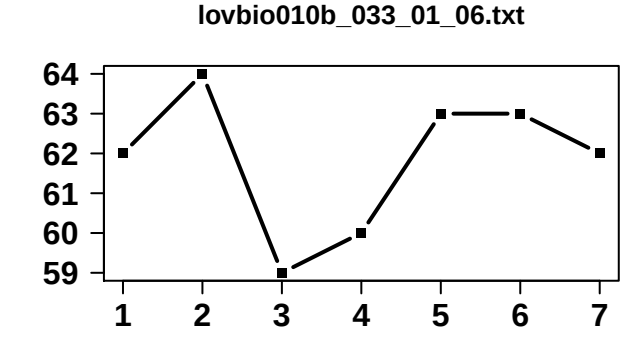

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

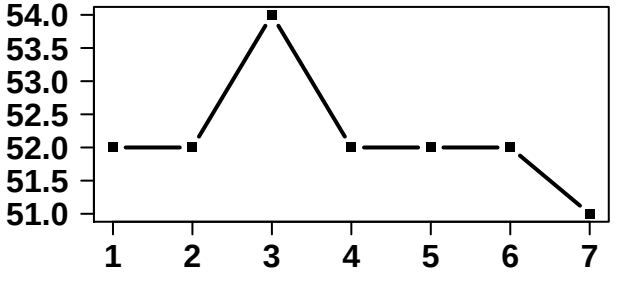

nb days: 8.4 freq: 10 min
200
180
160
140
120
100
0
200
600
1000
beta, [CN] / Points @ x s

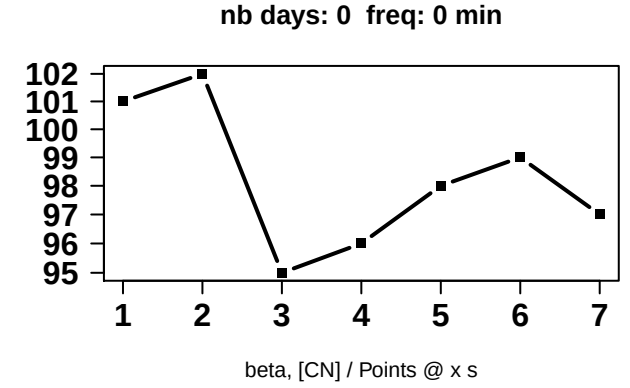

nb days: 8.4 freq: 59.6 min
0.25
0.24
0.23
0.22
0.21
0.20
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

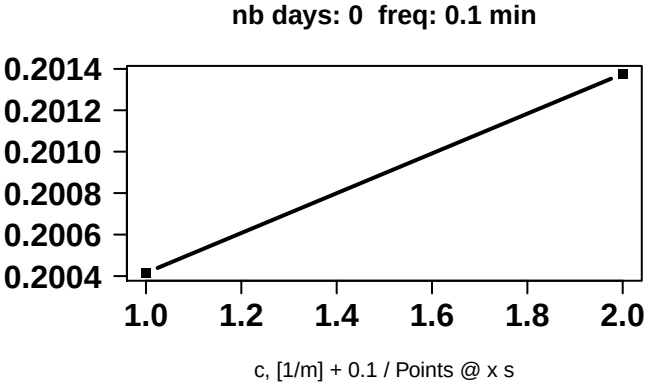

2013−08−19 12:38:45 2013−08−19 12:38:52
431.0
430.5
430.0
429.5
429.0
428.5
2
4
6
8
10
Pressure in

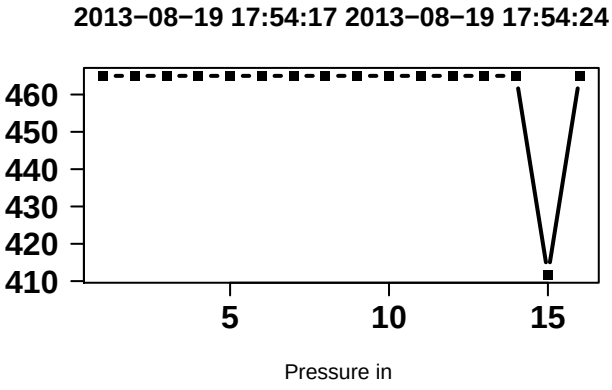

black 0.028 red 0.042
Seawater potential density anomaly
Seawater density − 1000
26.940
26.935
26.930
26.925
26.920
26.915
28.84
28.82
28.80
1.0
1.2
1.4
1.6
1.8
2.0

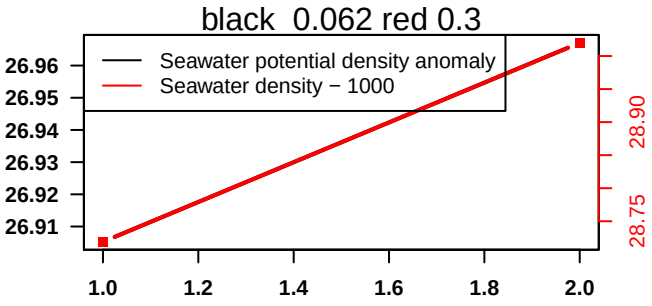

lovbio010b_033_01_06.txt
64
63
62
61
60
59
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

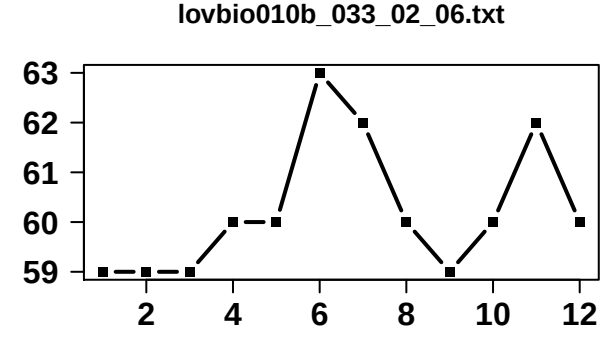

54.0
53.5
53.0
52.5
52.0
51.5
51.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

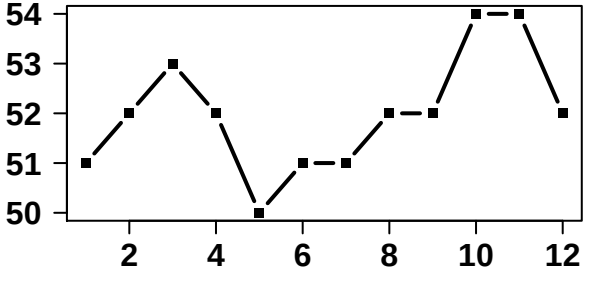

nb days: 0 freq: 0 min
102
101
100
99
98
97
96
95
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

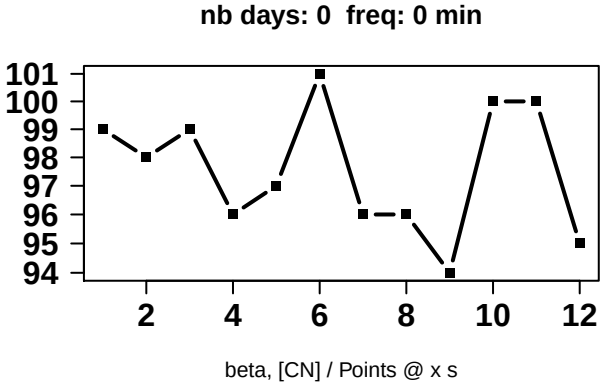

nb days: 0 freq: 0.1 min
0.2014
0.2012
0.2010
0.2008
0.2006
0.2004
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

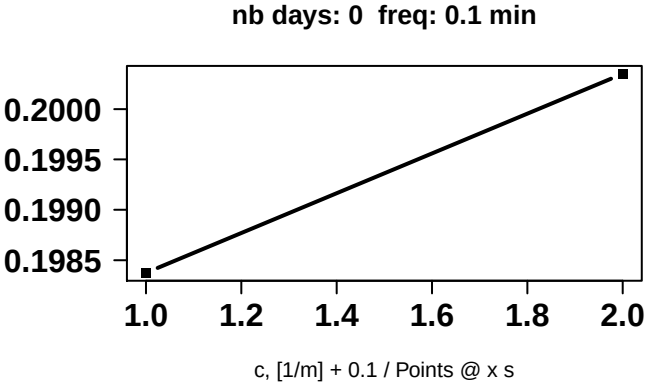

2013−08−19 17:54:17 2013−08−19 17:54:24
460
450
440
430
420
410
5
10
15
Pressure in

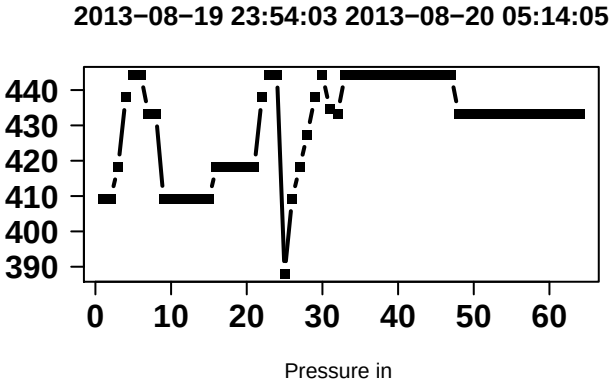

black 0.062 red 0.3
Seawater potential density anomaly
Seawater density − 1000
26.96
26.95
26.94
26.93
26.92
26.91
28.90
28.75
1.0
1.2
1.4
1.6
1.8
2.0

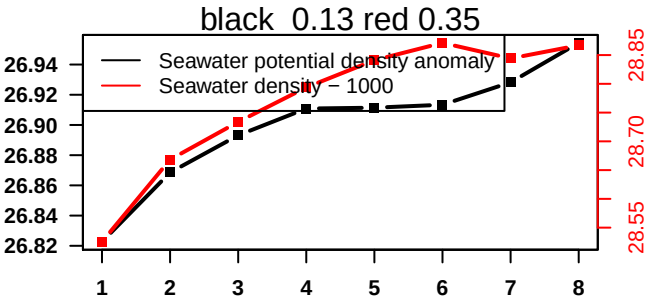

lovbio010b_033_02_06.txt
63
62
61
60
59
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

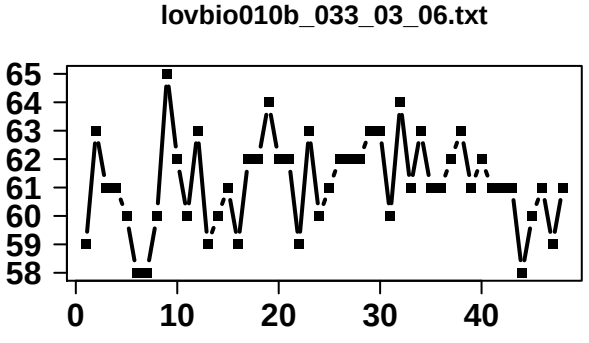

54
53
52
51
50
2
4
6
8
10
12
chl, [CN] / Points @ x s

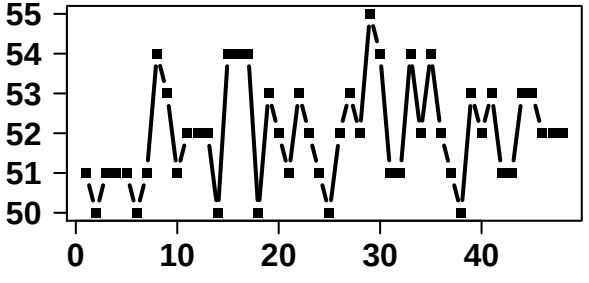

nb days: 0 freq: 0 min
101
100
99
98
97
96
95
94
2
4
6
8
10
12
beta, [CN] / Points @ x s

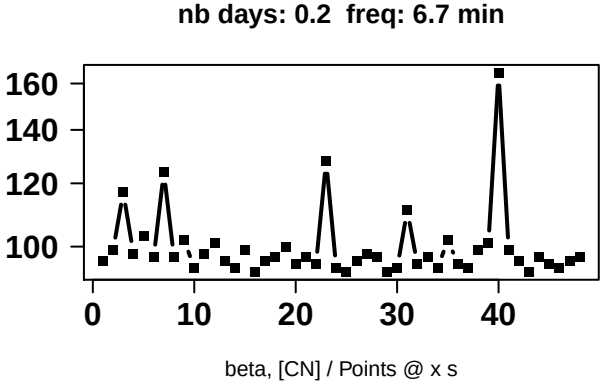

nb days: 0 freq: 0.1 min
0.2000
0.1995
0.1990
0.1985
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

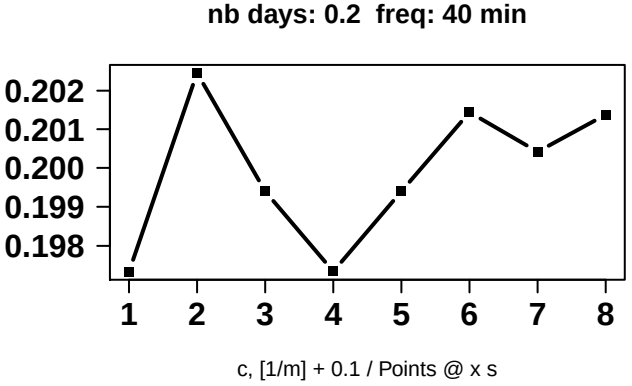

2013−08−19 23:54:03 2013−08−20 05:14:05
440
430
420
410
400
390
0
10
20
30
40
50
60
Pressure in

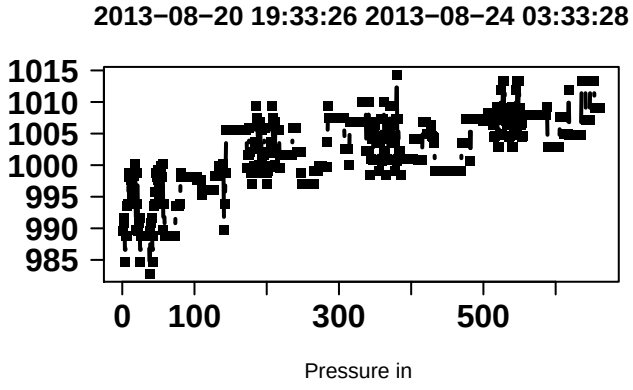

black 0.13 red 0.35
Seawater potential density anomaly
Seawater density − 1000
26.94
26.92
26.90
26.88
26.86
26.84
26.82
28.85
28.70
28.55
1
2
3
4
5
6
7
8

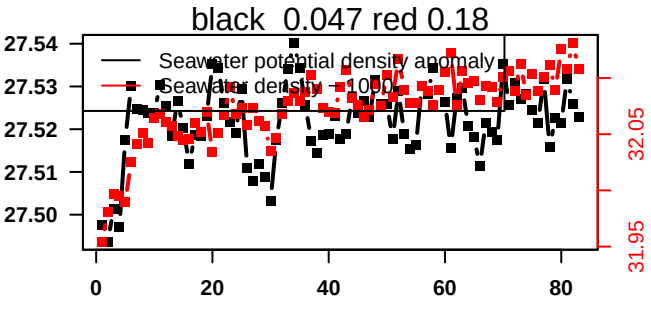

lovbio010b_033_03_06.txt
65
64
63
62
61
60
59
58
0
10
20
30
40
CDOM, [CN] / Points @ x s

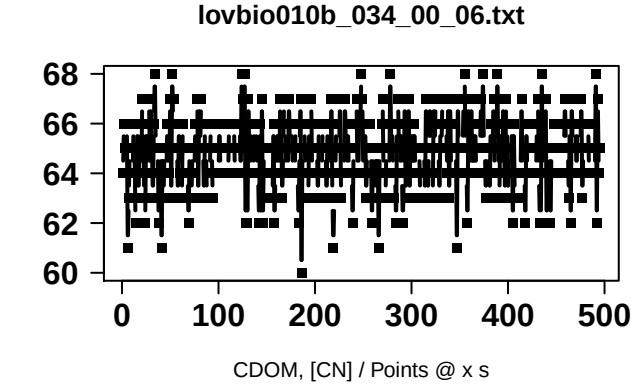

55
54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

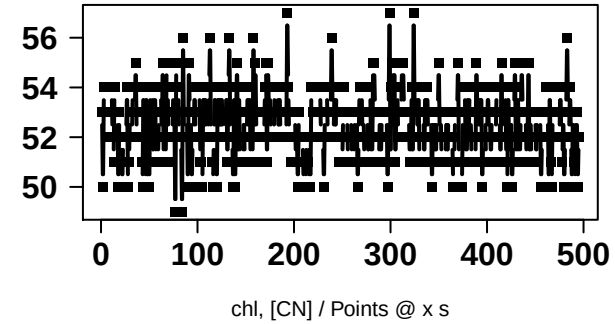

nb days: 0.2 freq: 6.7 min
160
140
120
100
0
10
20
30
40
beta, [CN] / Points @ x s

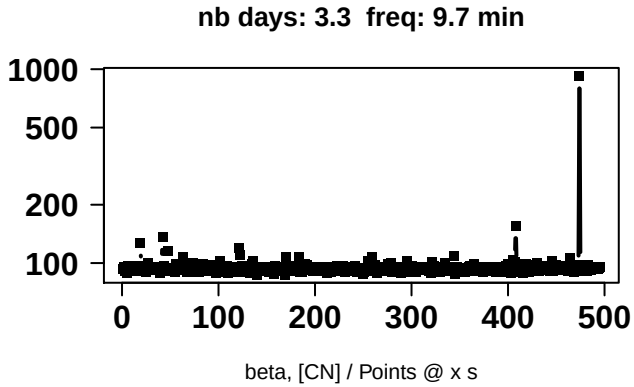

nb days: 0.2 freq: 40 min
0.202
0.201
0.200
0.199
0.198
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

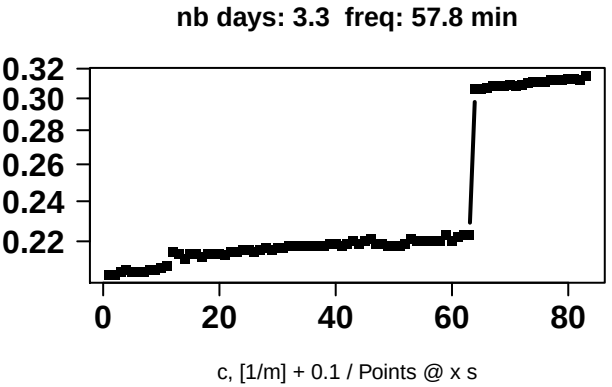

2013−08−20 19:33:26 2013−08−24 03:33:28
1015
1010
1005
1000
995
990
985
0
100
300
500
Pressure in

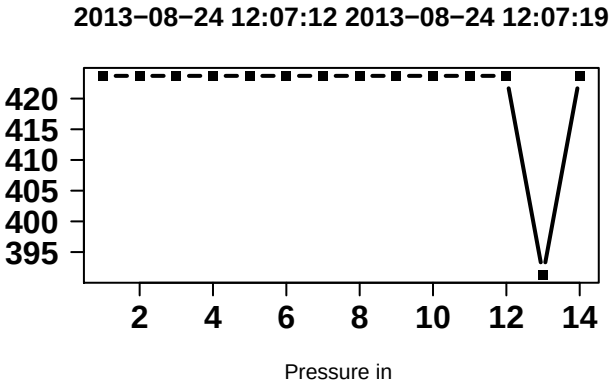

black 0.047 red 0.18
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.05
31.95
0
20
40
60
80

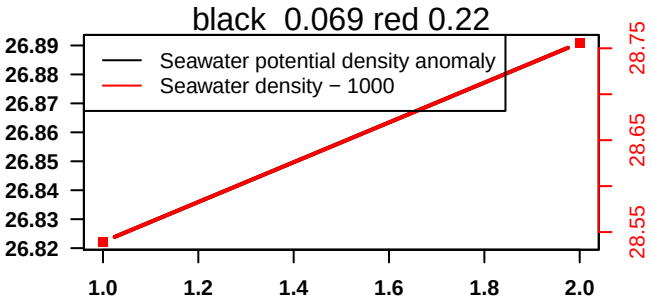

lovbio010b_034_00_06.txt
68
66
64
62
60
0
100
200
300
400
500
CDOM, [CN] / Points @ x s

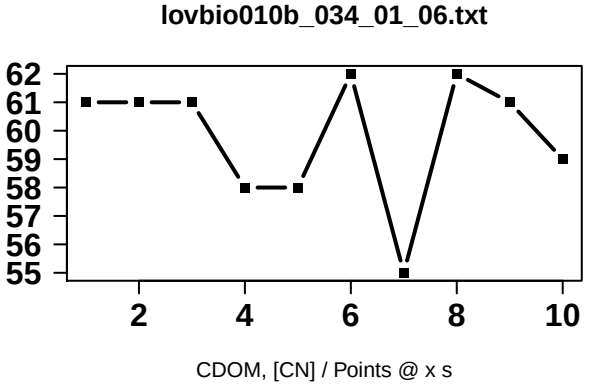

56
54
52
50
0
100
200
300
400
500
chl, [CN] / Points @ x s

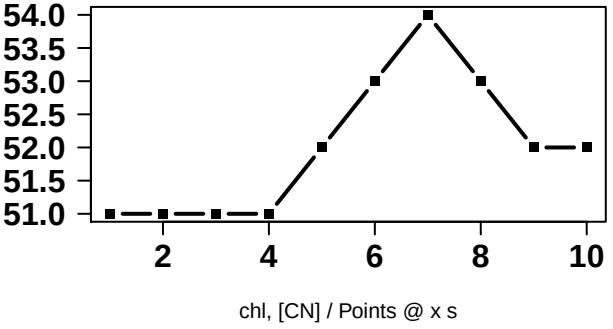

nb days: 3.3 freq: 9.7 min
1000
500
200
100
0
100
200
300
400
500
beta, [CN] / Points @ x s

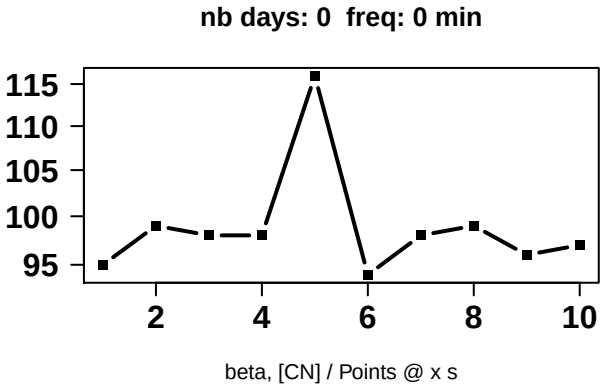

nb days: 3.3 freq: 57.8 min
0.32
0.30
0.28
0.26
0.24
0.22
0
20
40
60
80
c, [1/m] + 0.1 / Points @ x s

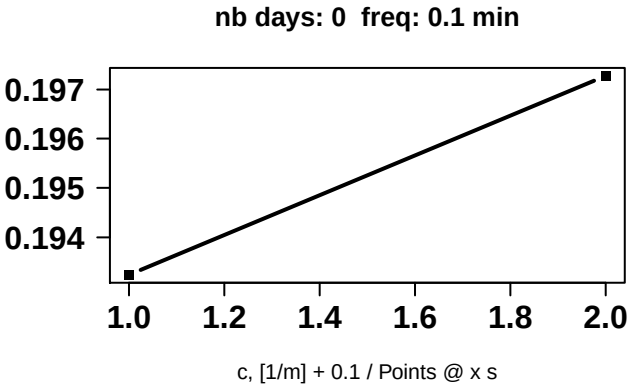

2013−08−24 12:07:12 2013−08−24 12:07:19
420
415
410
405
400
395
2
4
6
8
10
12
14
Pressure in

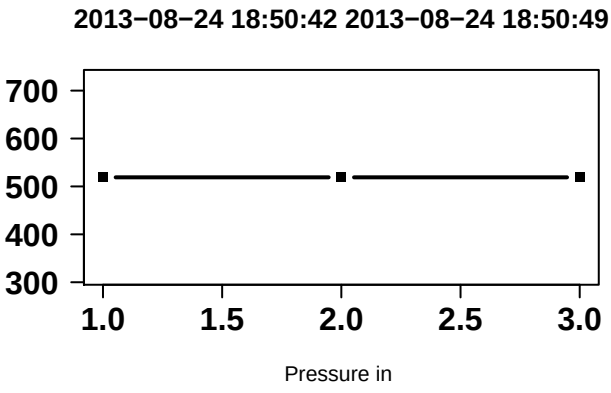

black 0.069 red 0.22
Seawater potential density anomaly
Seawater density − 1000
26.89
26.88
26.87
26.86
26.85
26.84
26.83
26.82
28.75
28.65
28.55
1.0
1.2
1.4
1.6
1.8
2.0

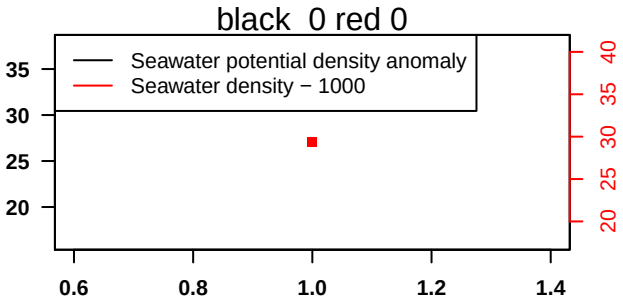

lovbio010b_034_01_06.txt
62
61
60
59
58
57
56
55
2
4
6
8
10
CDOM, [CN] / Points @ x s

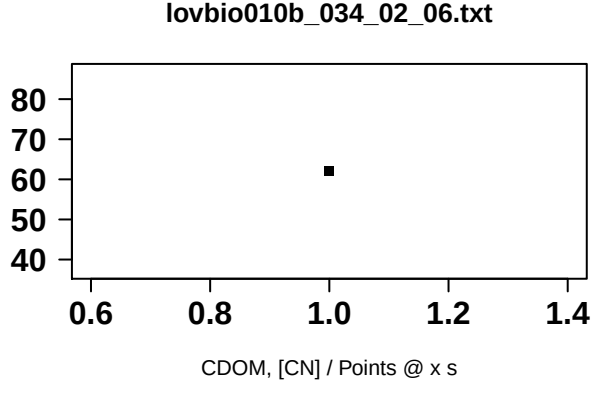

54.0
53.5
53.0
52.5
52.0
51.5
51.0
2
4
6
8
10
chl, [CN] / Points @ x s

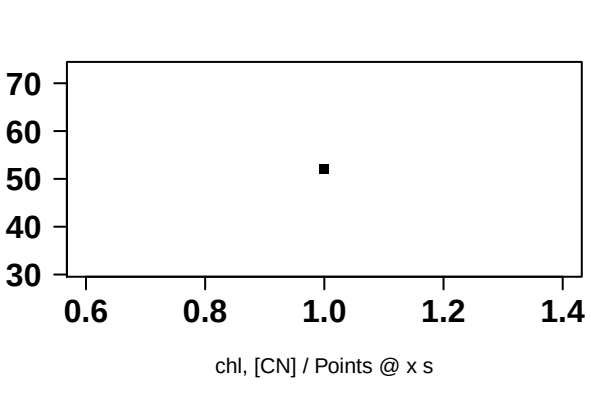

nb days: 0 freq: 0 min
115
110
105
100
95
2
4
6
8
10
beta, [CN] / Points @ x s

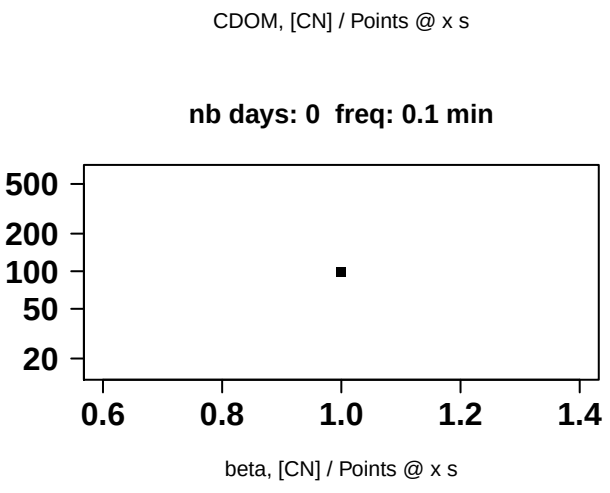

nb days: 0 freq: 0.1 min
0.197
0.196
0.195
0.194
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

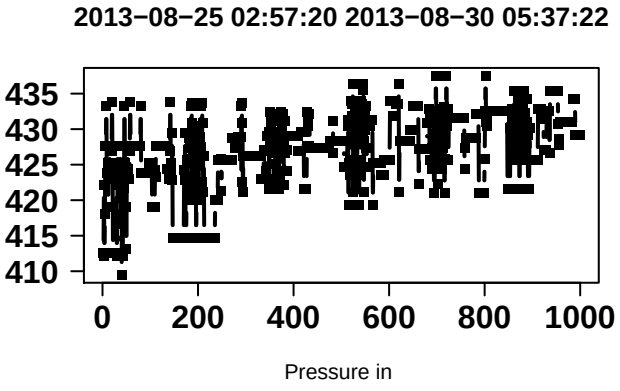

2013−08−24 18:50:42 2013−08−24 18:50:49
700
600
500
400
300
1.0
1.5
2.0
2.5
3.0
Pressure in

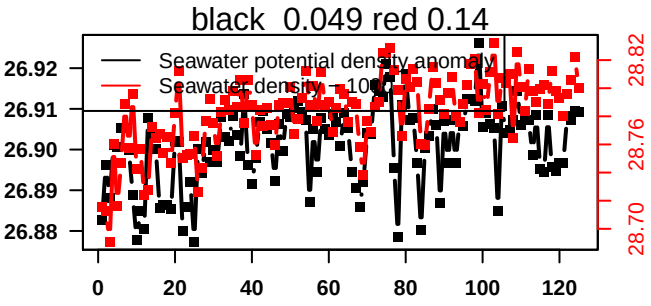

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

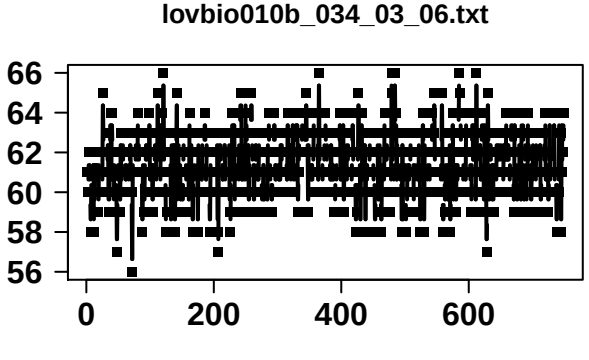

lovbio010b_034_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

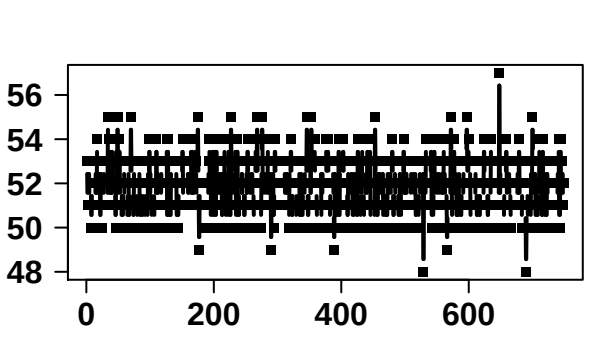

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

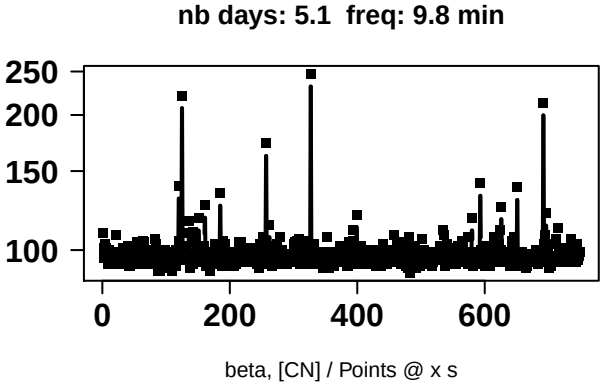

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

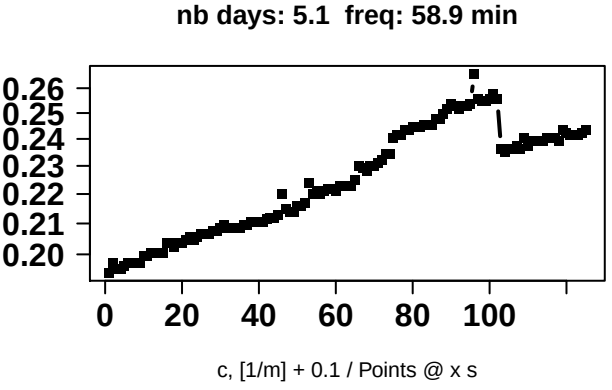

2013−08−25 02:57:20 2013−08−30 05:37:22
435
430
425
420
415
410
0
200
400
600
800
1000
Pressure in

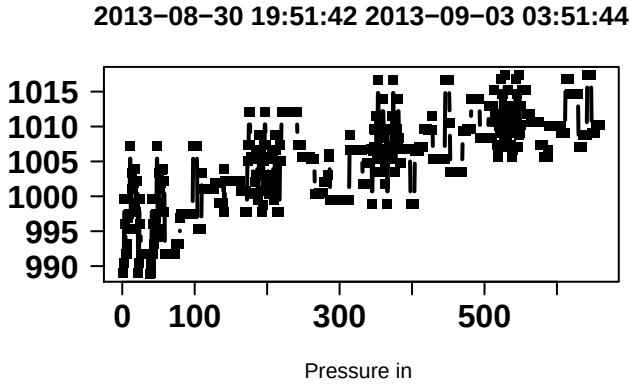

black 0.049 red 0.14
Seawater potential density anomaly
Seawater density − 1000
26.92
26.91
26.90
26.89
26.88
28.82
28.76
28.70
0
20
40
60
80
100
120

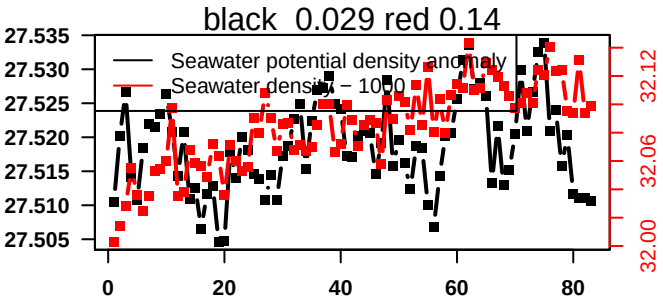

lovbio010b_034_03_06.txt
66
64
62
60
58
56
0
200
400
600
CDOM, [CN] / Points @ x s

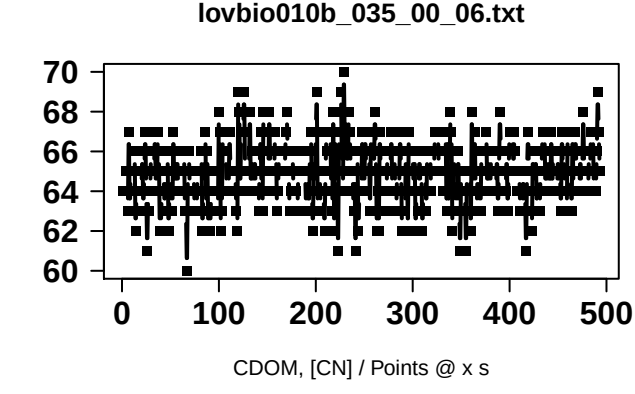

56
54
52
50
48
0
200
400
600
chl, [CN] / Points @ x s

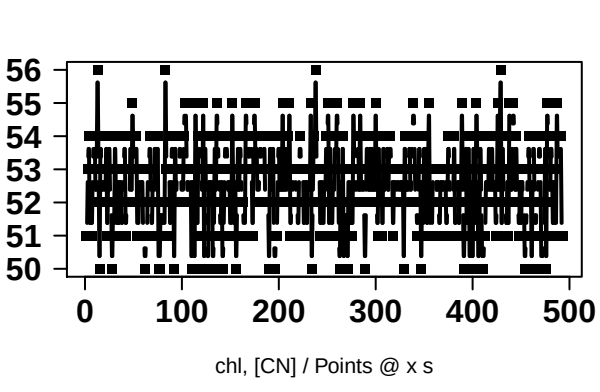

nb days: 5.1 freq: 9.8 min
250
200
150
100
0
200
400
600
beta, [CN] / Points @ x s

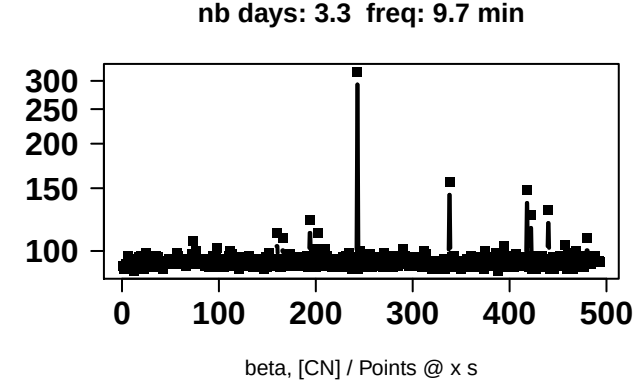

nb days: 5.1 freq: 58.9 min
0.26
0.25
0.24
0.23
0.22
0.21
0.20
0
20
40
60
80
100
c, [1/m] + 0.1 / Points @ x s

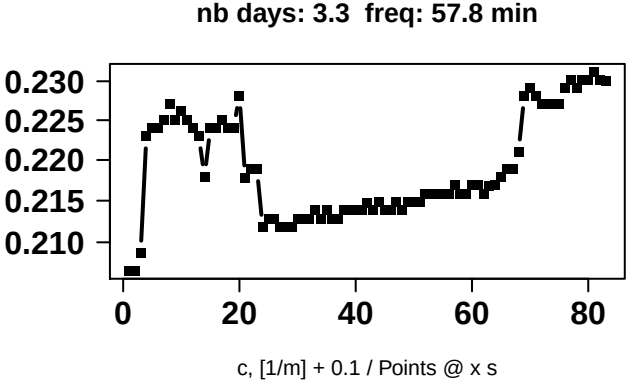

2013−08−30 19:51:42 2013−09−03 03:51:44
1015
1010
1005
1000
995
990
0
100
300
500
Pressure in

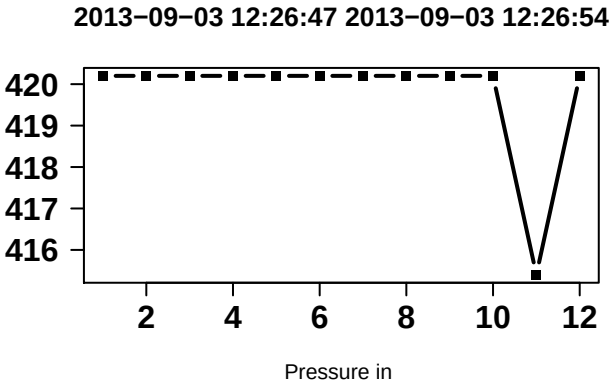

black 0.029 red 0.14
Seawater potential density anomaly
Seawater density − 1000
27.535
27.530
27.525
27.520
27.515
27.510
27.505
32.12
32.06
32.00
0
20
40
60
80

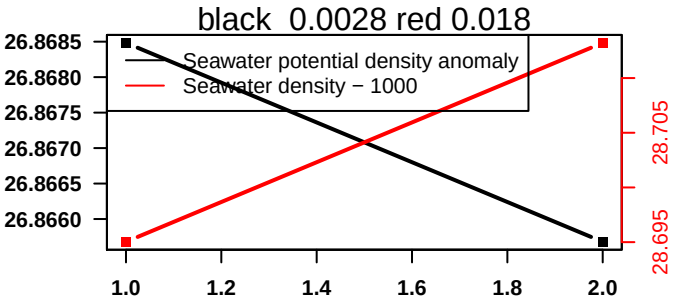

lovbio010b_035_00_06.txt
70
68
66
64
62
60
0
100
200
300
400
500
CDOM, [CN] / Points @ x s

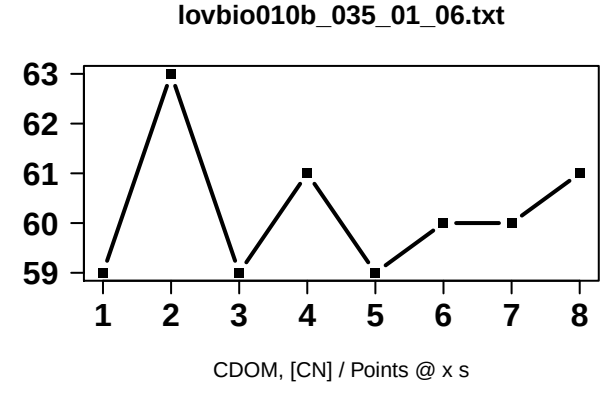

56
55
54
53
52
51
50
0
100
200
300
400
500
chl, [CN] / Points @ x s

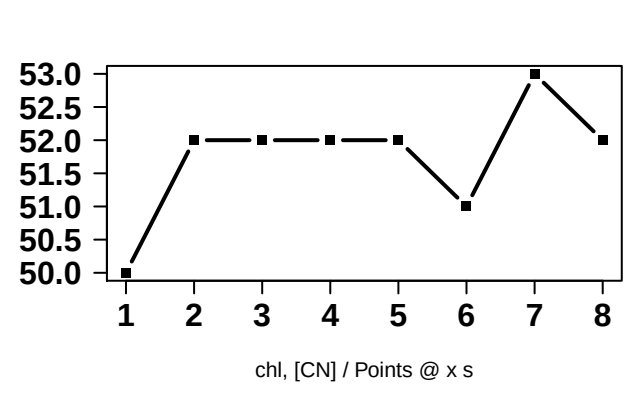

nb days: 3.3 freq: 9.7 min
300
250
200
150
100
0
100
200
300
400
500
beta, [CN] / Points @ x s

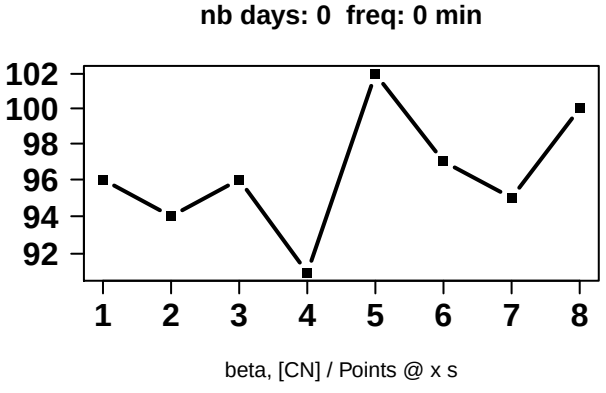

nb days: 3.3 freq: 57.8 min
0.230
0.225
0.220
0.215
0.210
0
20
40
60
80
c, [1/m] + 0.1 / Points @ x s

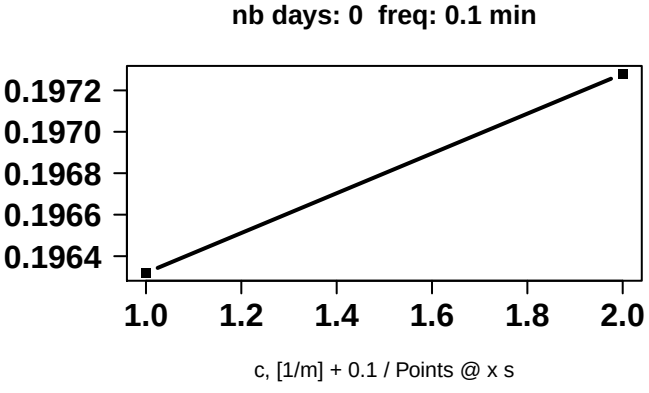

2013−09−03 12:26:47 2013−09−03 12:26:54
420
419
418
417
416
2
4
6
8
10
12
Pressure in

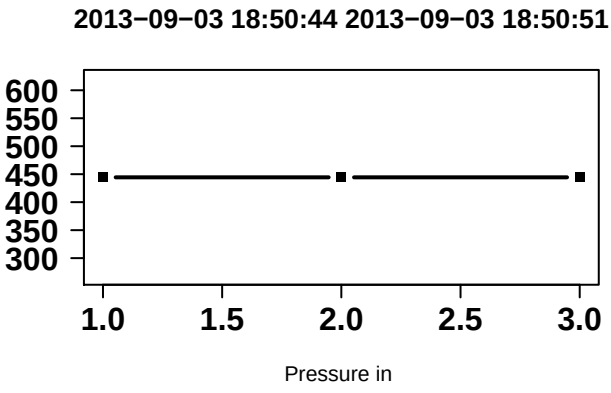

black 0.0028 red 0.018
Seawater potential density anomaly
Seawater density − 1000
26.8685
26.8680
26.8675
26.8670
26.8665
26.8660
28.705
28.695
1.0
1.2
1.4
1.6
1.8
2.0

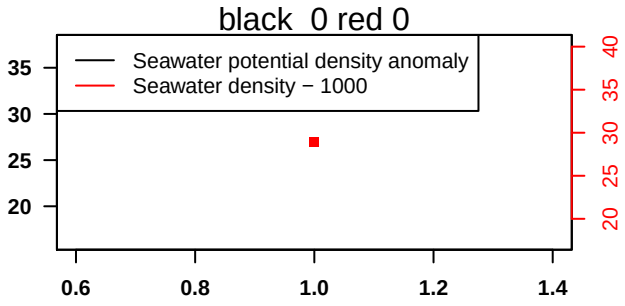

lovbio010b_035_01_06.txt
63
62
61
60
59
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

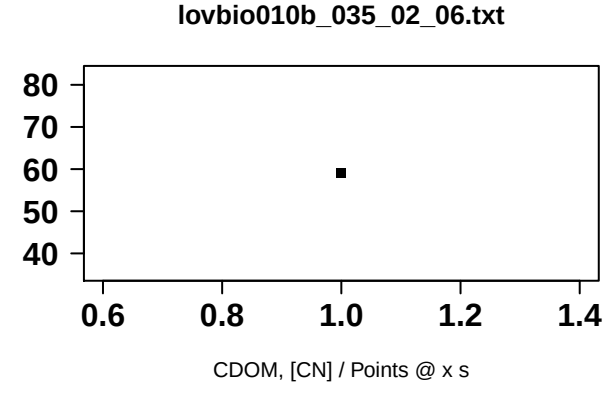

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

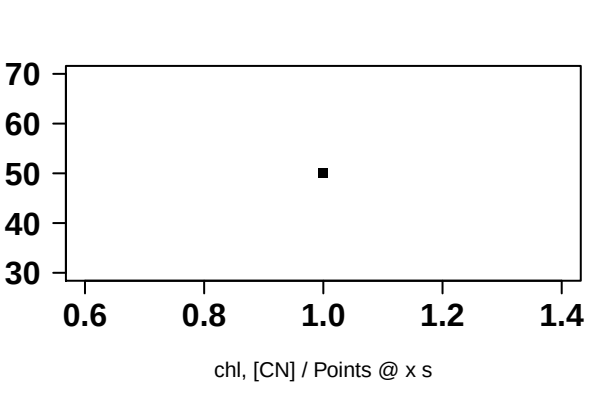

nb days: 0 freq: 0 min
102
100
98
96
94
92
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

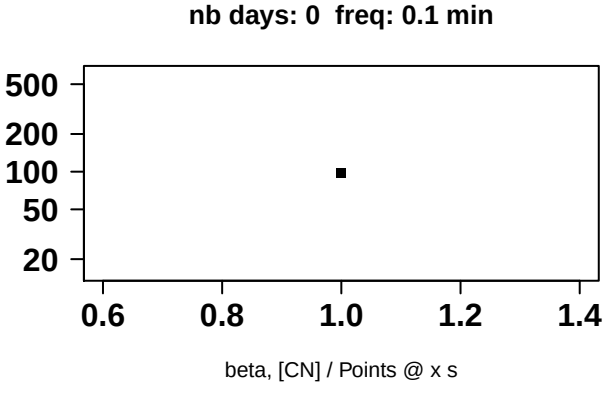

nb days: 0 freq: 0.1 min
0.1972
0.1970
0.1968
0.1966
0.1964
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

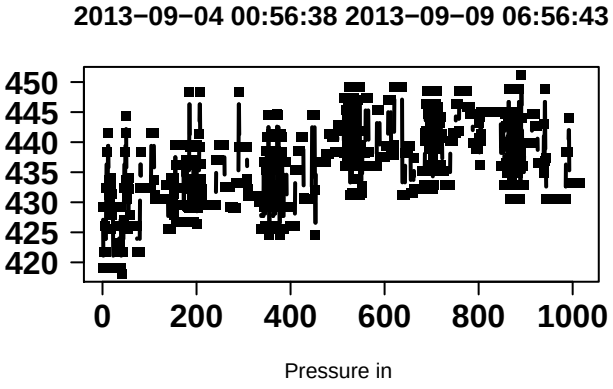

2013−09−03 18:50:44 2013−09−03 18:50:51
600
550
500
450
400
350
300
1.0
1.5
2.0
2.5
3.0
Pressure in

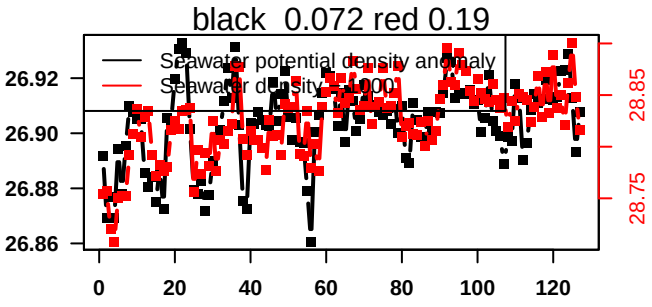

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

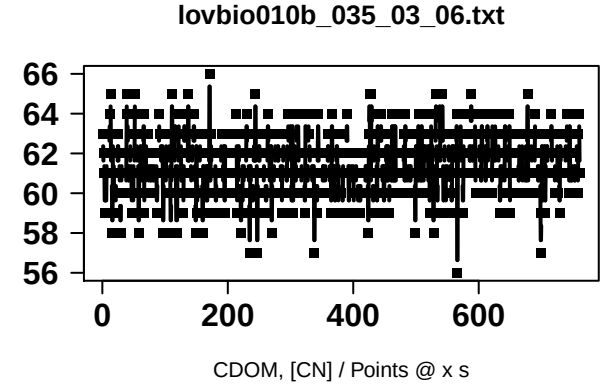

lovbio010b_035_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

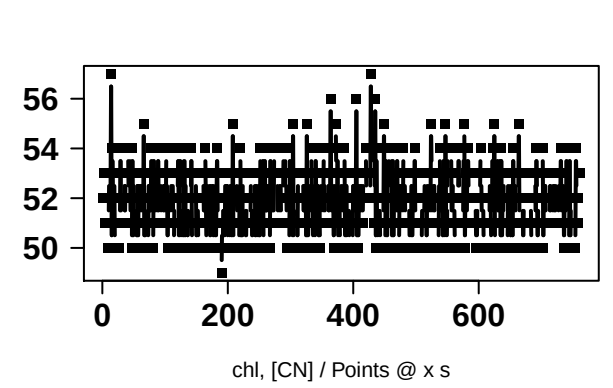

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

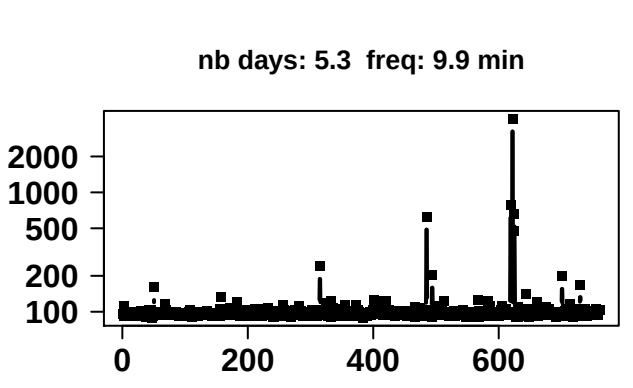

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

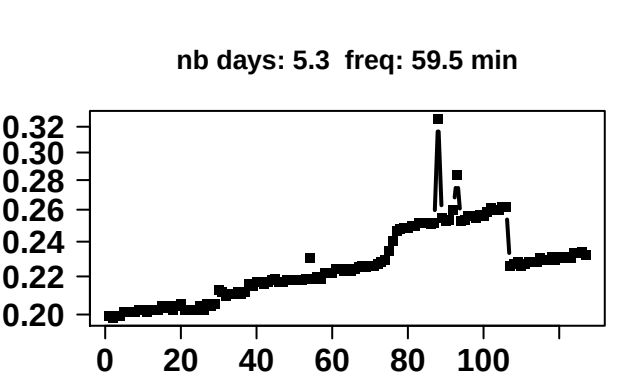

2013−09−04 00:56:38 2013−09−09 06:56:43
450
445
440
435
430
425
420
0
200
400
600
800
1000
Pressure in

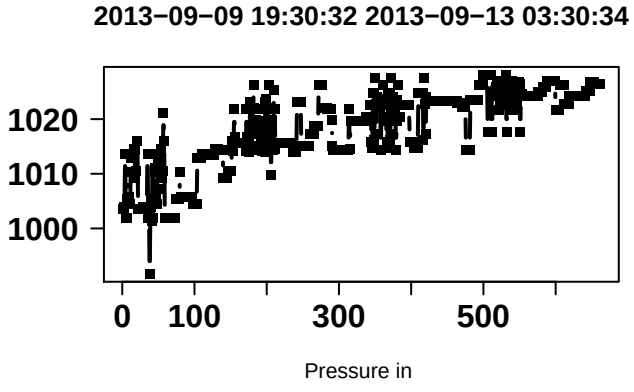

black 0.072 red 0.19
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
28.85
28.75
0
20
40
60
80
100
120

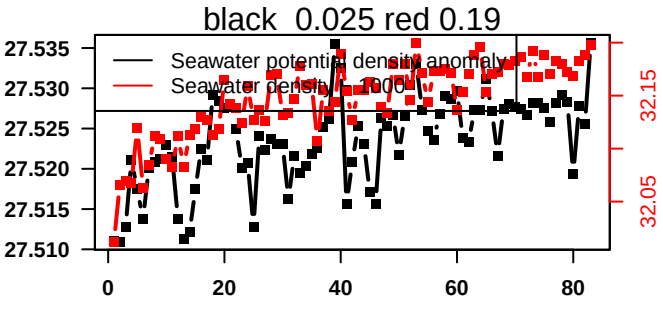

lovbio010b_035_03_06.txt
66
64
62
60
58
56
0
200
400
600
CDOM, [CN] / Points @ x s

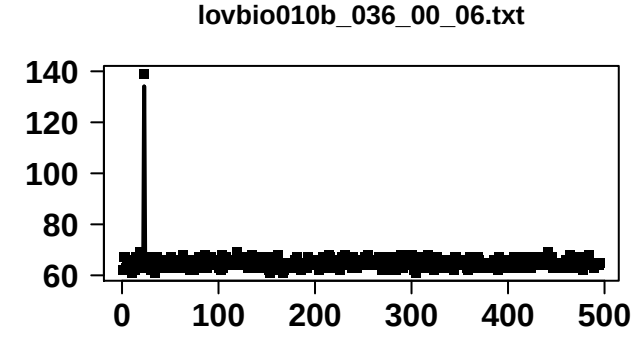

56
54
52
50
0
200
400
600
chl, [CN] / Points @ x s

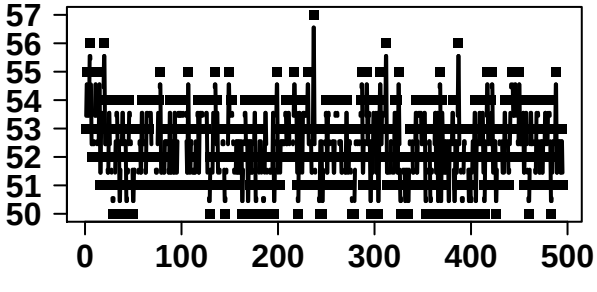

nb days: 5.3 freq: 9.9 min
2000
1000
500
200
100
0
200
400
600
beta, [CN] / Points @ x s

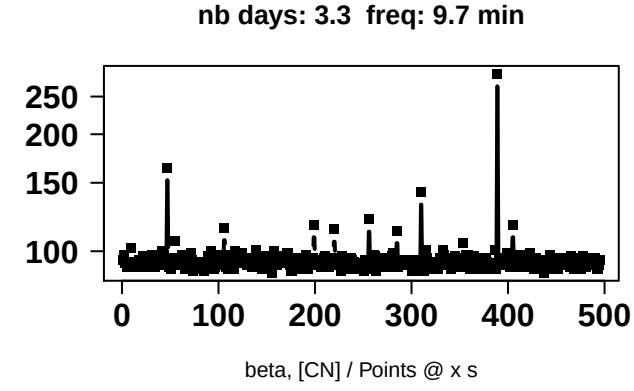

nb days: 5.3 freq: 59.5 min
0.32
0.30
0.28
0.26
0.24
0.22
0.20
0
20
40
60
80
100
c, [1/m] + 0.1 / Points @ x s

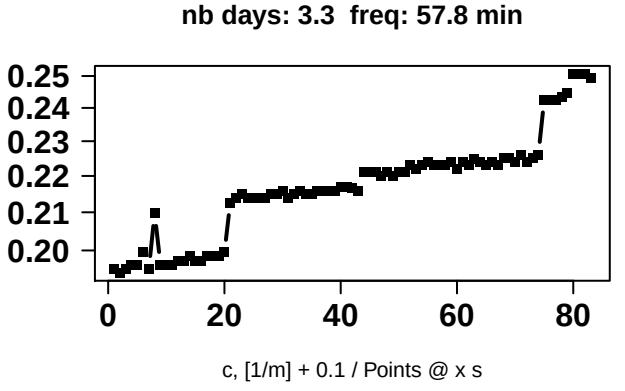

2013−09−09 19:30:32 2013−09−13 03:30:34
1020
1010
1000
0
100
300
500
Pressure in

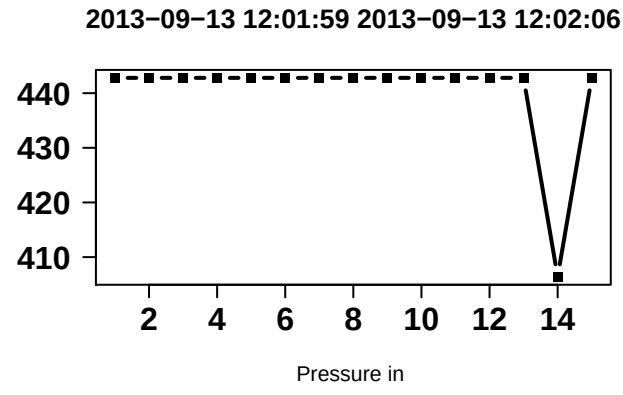

black 0.025 red 0.19
Seawater potential density anomaly
Seawater density − 1000
27.535
27.530
27.525
27.520
27.515
27.510
32.15
32.05
0
20
40
60
80

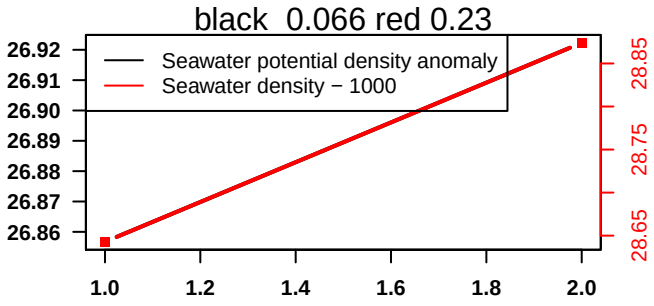

lovbio010b_036_00_06.txt
140
120
100
80
60
0
100
200
300
400
500
CDOM, [CN] / Points @ x s

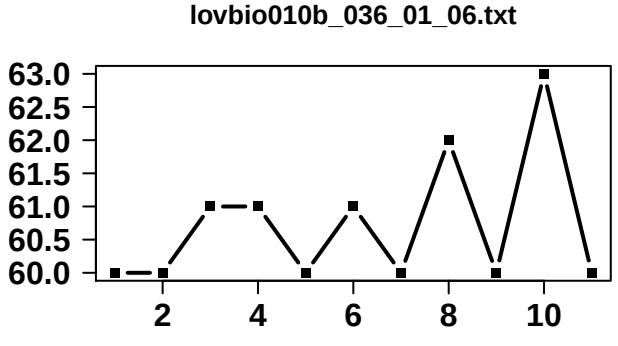

57
56
55
54
53
52
51
50
0
100
200
300
400
500
chl, [CN] / Points @ x s

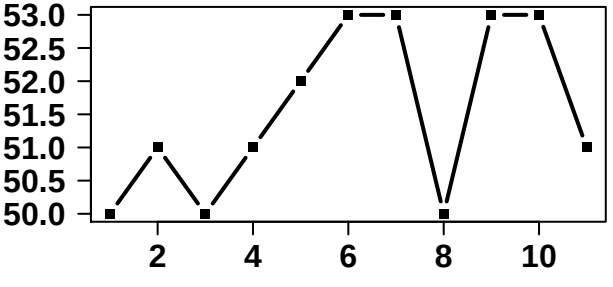

nb days: 3.3 freq: 9.7 min
250
200
150
100
0
100
200
300
400
500
beta, [CN] / Points @ x s

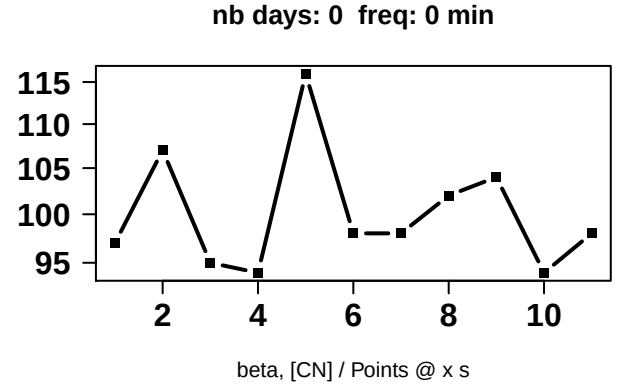

nb days: 3.3 freq: 57.8 min
0.25
0.24
0.23
0.22
0.21
0.20
0
20
40
60
80
c, [1/m] + 0.1 / Points @ x s

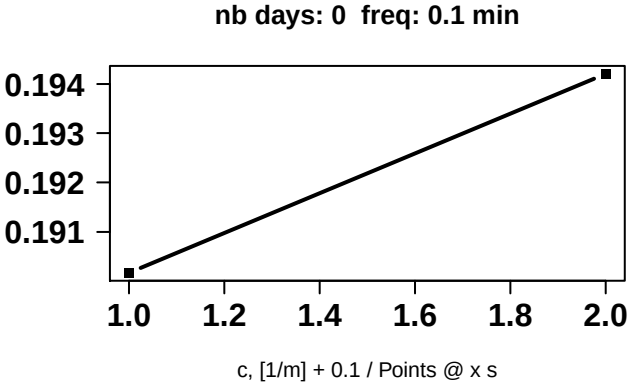

2013−09−13 12:01:59 2013−09−13 12:02:06
440
430
420
410
2
4
6
8
10
12
14
Pressure in

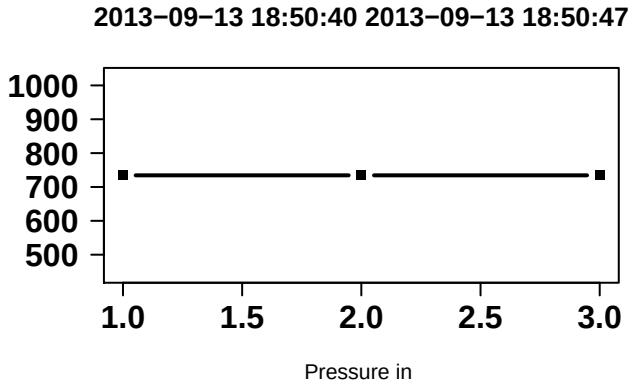

black 0.066 red 0.23
Seawater potential density anomaly
Seawater density − 1000
26.92
26.91
26.90
26.89
26.88
26.87
26.86
28.85
28.75
28.65
1.0
1.2
1.4
1.6
1.8
2.0

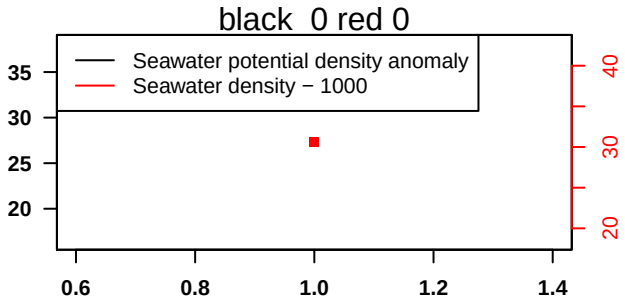

lovbio010b_036_01_06.txt
63.0
62.5
62.0
61.5
61.0
60.5
60.0
2
4
6
8
10
CDOM, [CN] / Points @ x s

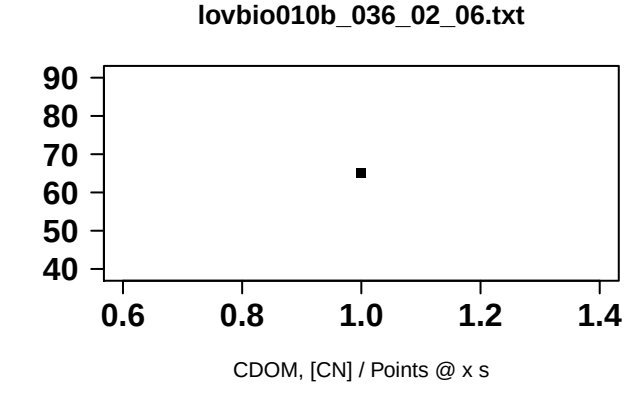

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

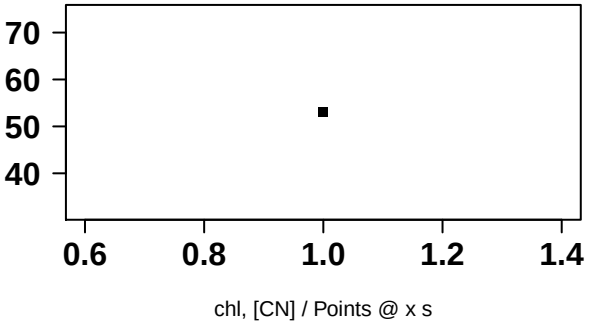

nb days: 0 freq: 0 min
115
110
105
100
95
2
4
6
8
10
beta, [CN] / Points @ x s

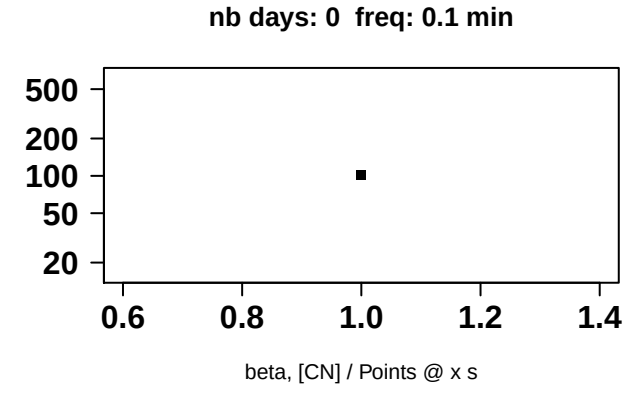

nb days: 0 freq: 0.1 min
0.194
0.193
0.192
0.191
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

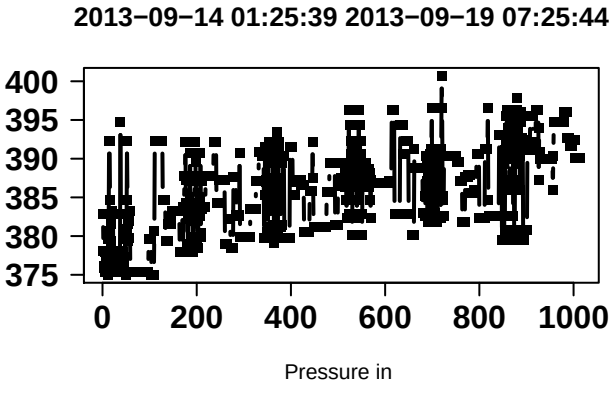

2013−09−13 18:50:40 2013−09−13 18:50:47
1000
900
800
700
600
500
1.0
1.5
2.0
2.5
3.0
Pressure in

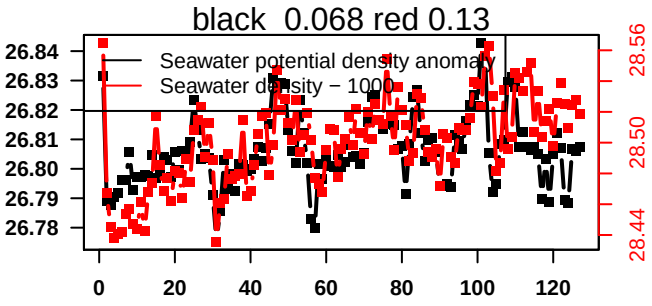

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

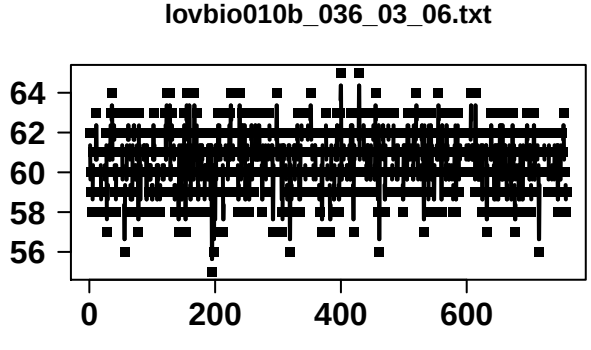

lovbio010b_036_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

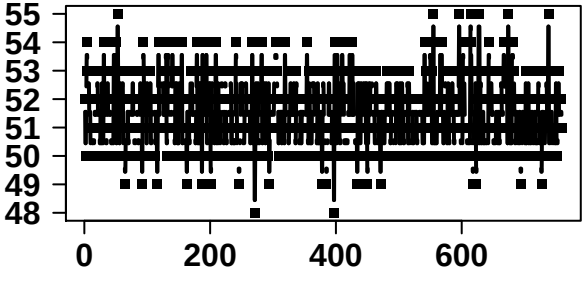

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

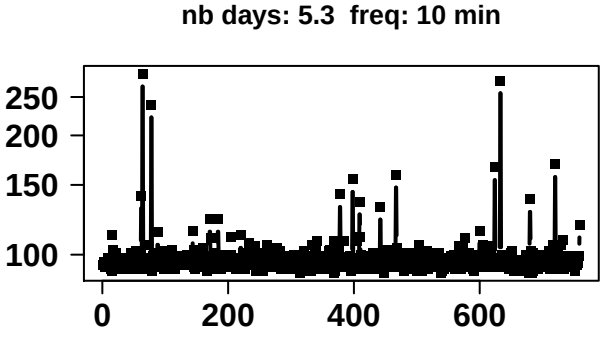

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

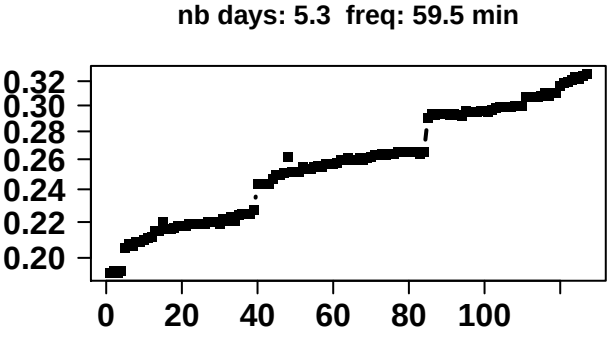

2013−09−14 01:25:39 2013−09−19 07:25:44
400
395
390
385
380
375
0
200
400
600
800
1000
Pressure in

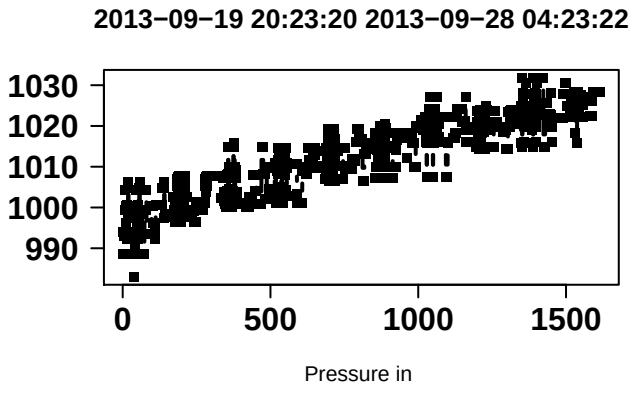

black 0.068 red 0.13
Seawater potential density anomaly
Seawater density − 1000
26.84
26.83
26.82
26.81
26.80
26.79
26.78
28.56
28.50
28.44
0
20
40
60
80
100
120

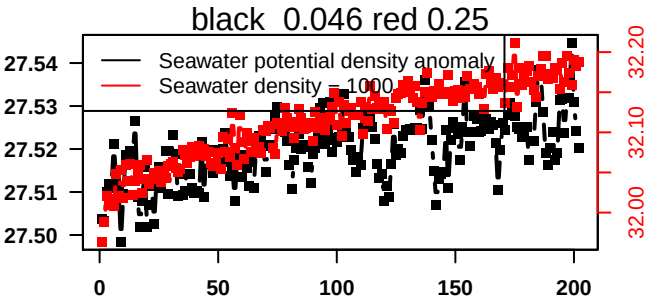

lovbio010b_036_03_06.txt
64
62
60
58
56
0
200
400
600
CDOM, [CN] / Points @ x s

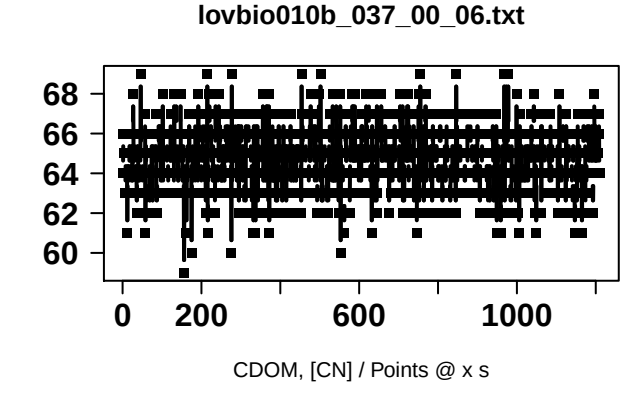

55
54
53
52
51
50
49
48
0
200
400
600
chl, [CN] / Points @ x s

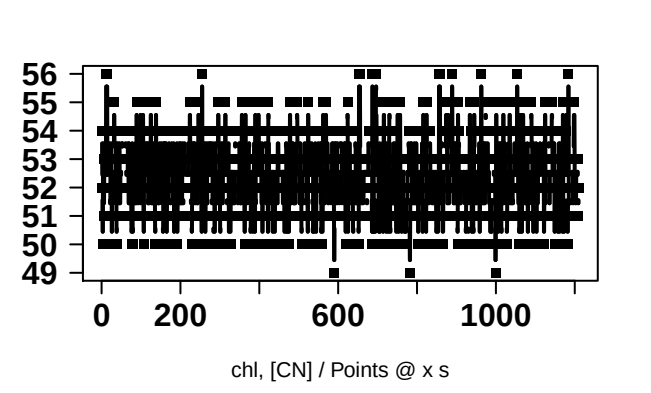

nb days: 5.3 freq: 10 min
250
200
150
100
0
200
400
600
beta, [CN] / Points @ x s

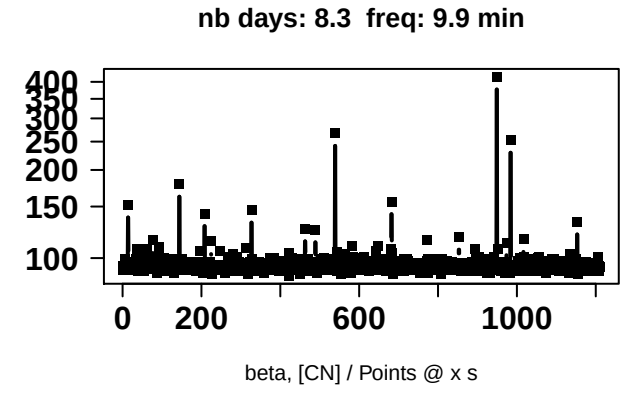

nb days: 5.3 freq: 59.5 min
0.32
0.30
0.28
0.26
0.24
0.22
0.20
0
20
40
60
80
100
c, [1/m] + 0.1 / Points @ x s

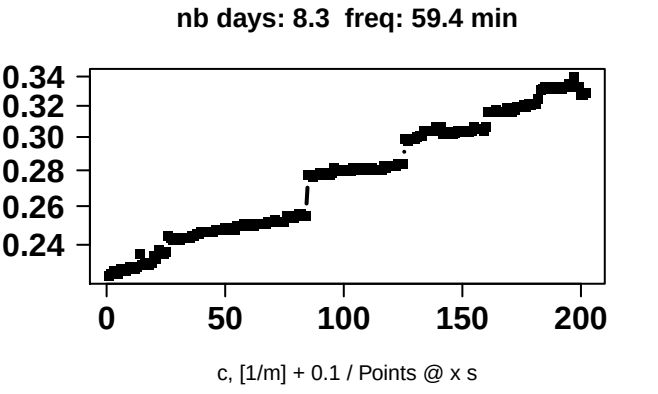

2013−09−19 20:23:20 2013−09−28 04:23:22
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

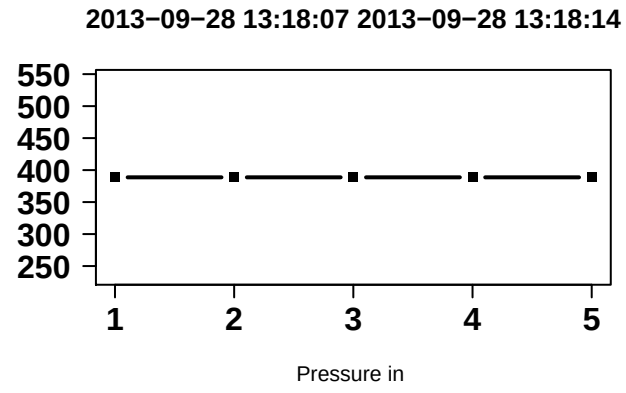

black 0.046 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.20
32.10
32.00
0
50
100
150
200

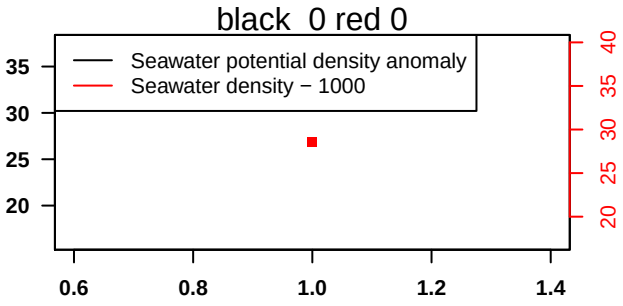

lovbio010b_037_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

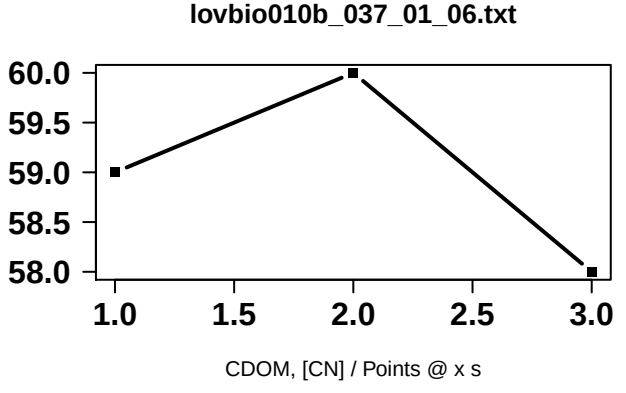

56
55
54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

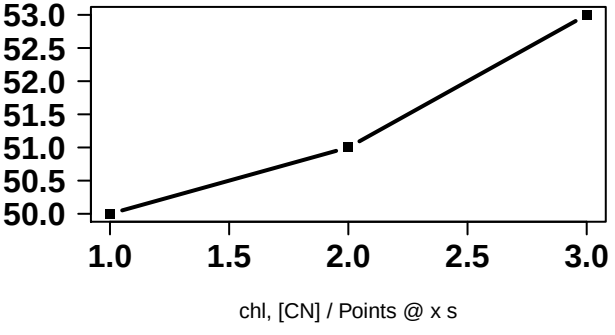

nb days: 8.3 freq: 9.9 min
400
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

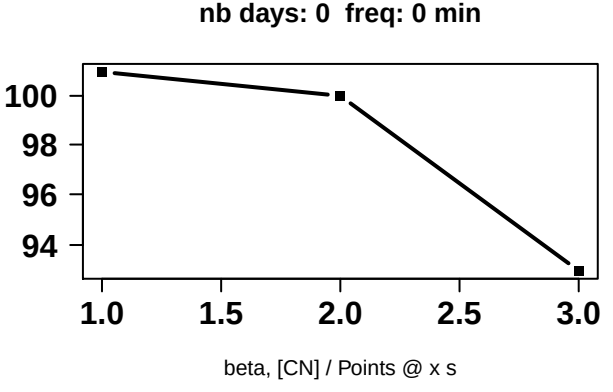

nb days: 8.3 freq: 59.4 min
0.34
0.32
0.30
0.28
0.26
0.24
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

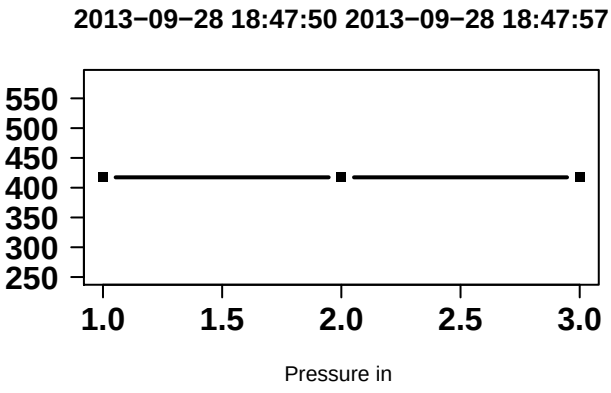

2013−09−28 13:18:07 2013−09−28 13:18:14
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

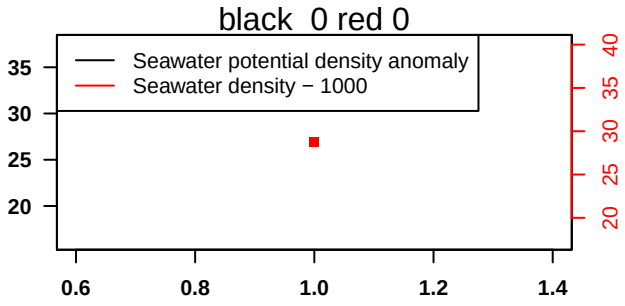

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

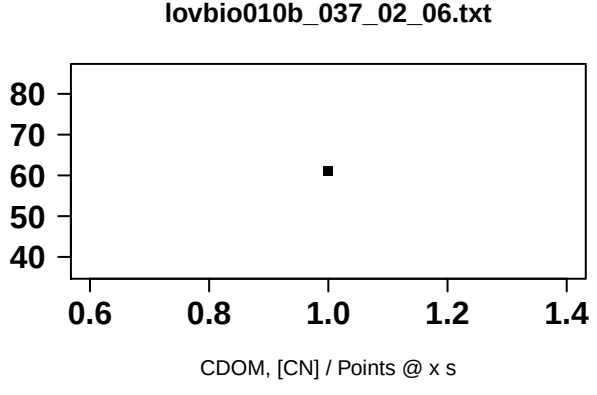

lovbio010b_037_01_06.txt
60.0
59.5
59.0
58.5
58.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

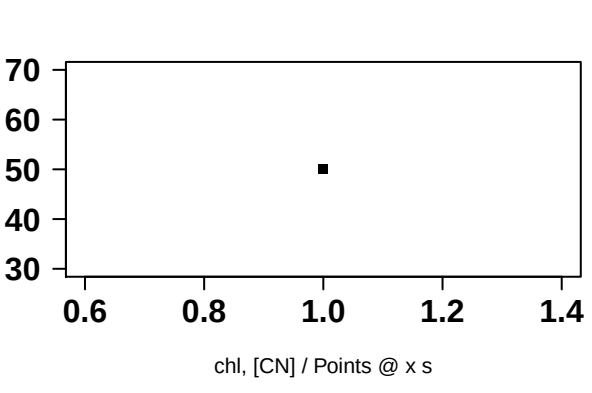

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

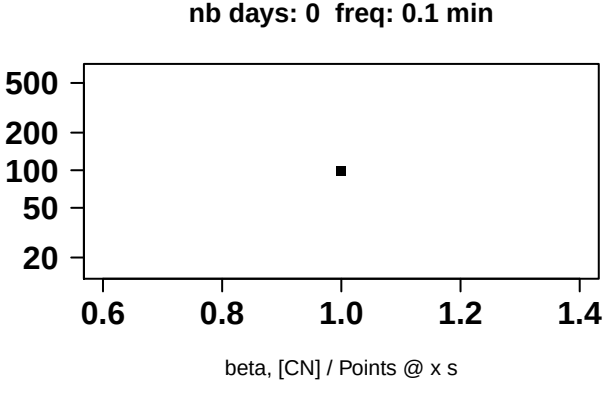

nb days: 0 freq: 0 min
100
98
96
94
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

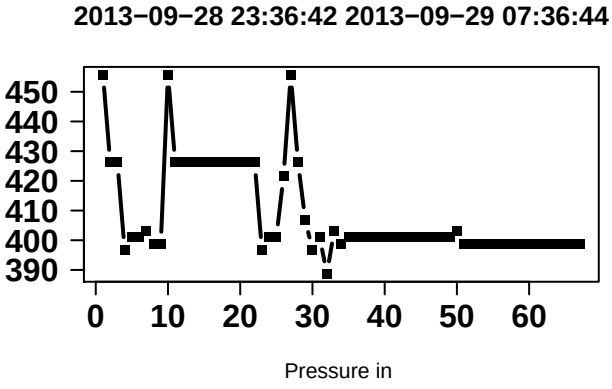

2013−09−28 18:47:50 2013−09−28 18:47:57
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

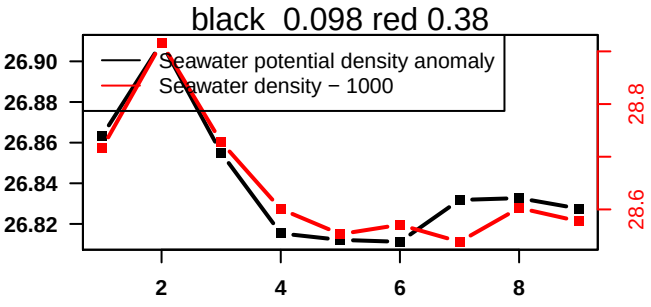

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

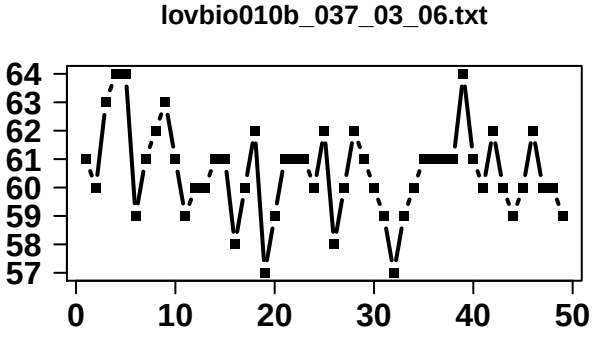

lovbio010b_037_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

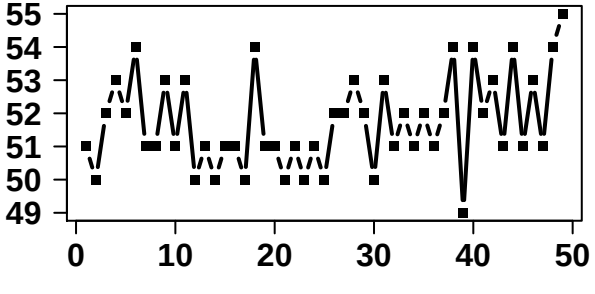

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

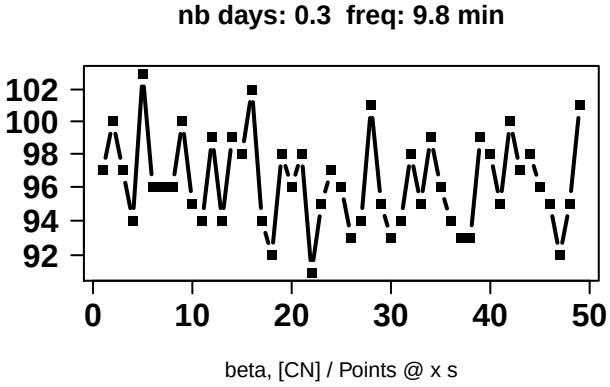

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

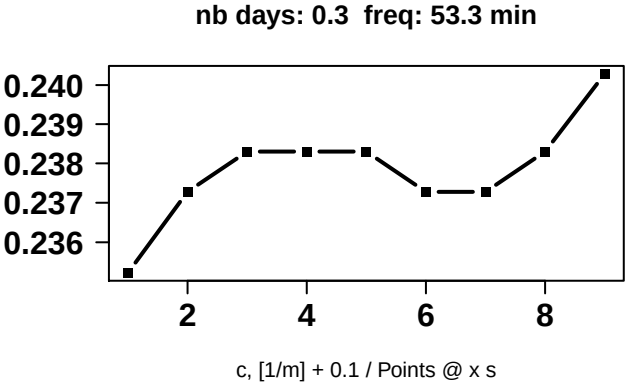

2013−09−28 23:36:42 2013−09−29 07:36:44
450
440
430
420
410
400
390
0
10
20
30
40
50
60
Pressure in

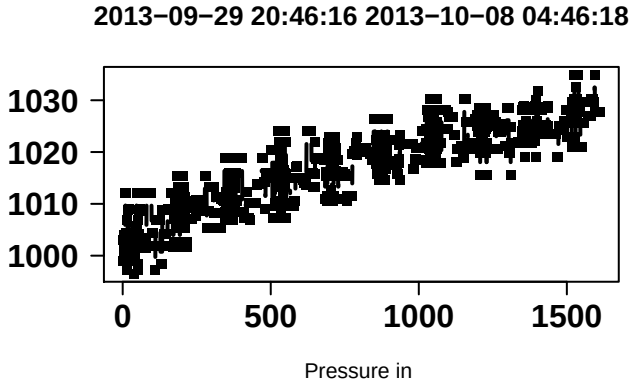

black 0.098 red 0.38
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
28.8
28.6
2
4
6
8

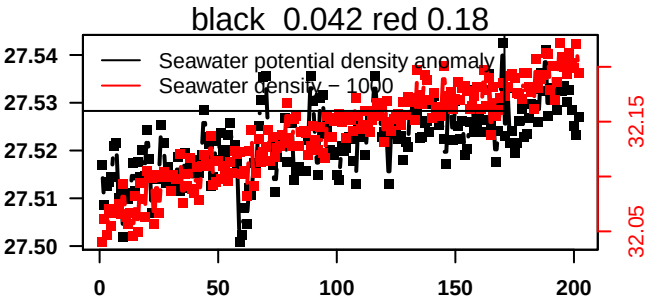

lovbio010b_037_03_06.txt
64
63
62
61
60
59
58
57
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

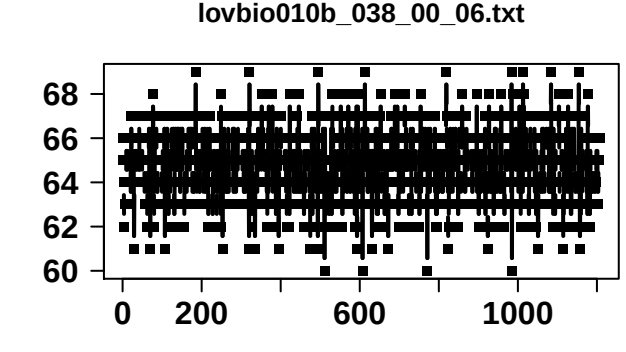

55
54
53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

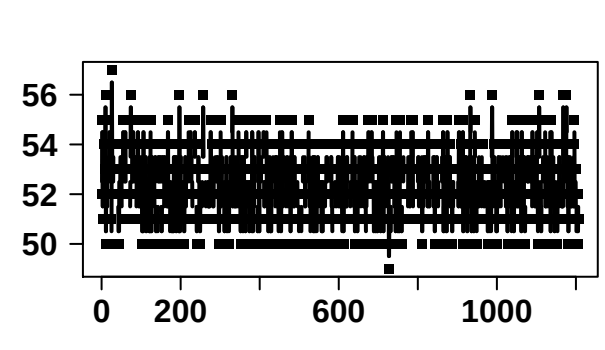

nb days: 0.3 freq: 9.8 min
102
100
98
96
94
92
0
10
20
30
40
50
beta, [CN] / Points @ x s

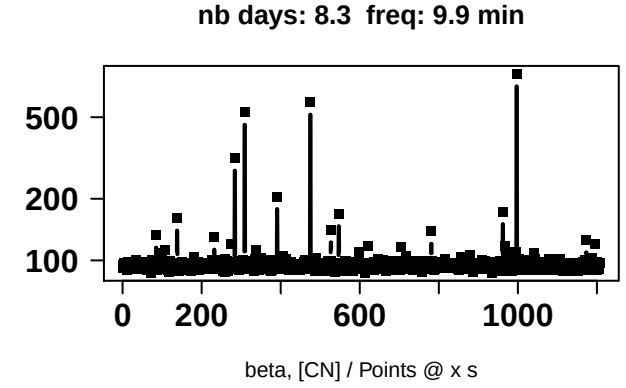

nb days: 0.3 freq: 53.3 min
0.240
0.239
0.238
0.237
0.236
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

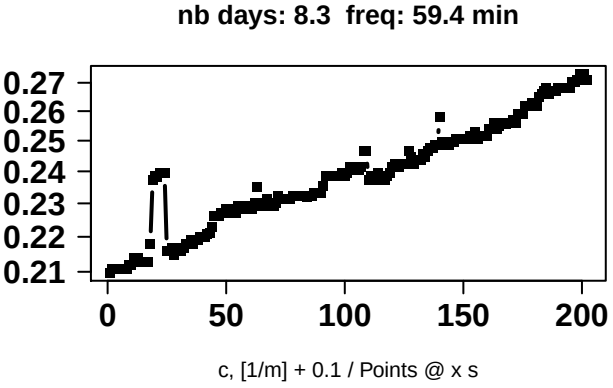

2013−09−29 20:46:16 2013−10−08 04:46:18
1030
1020
1010
1000
0
500
1000
1500
Pressure in

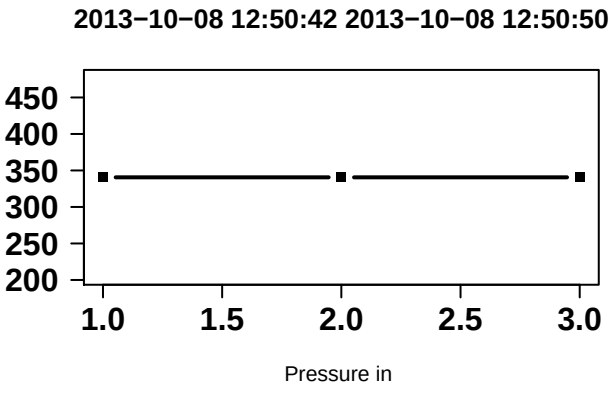

black 0.042 red 0.18
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.15
32.05
0
50
100
150
200

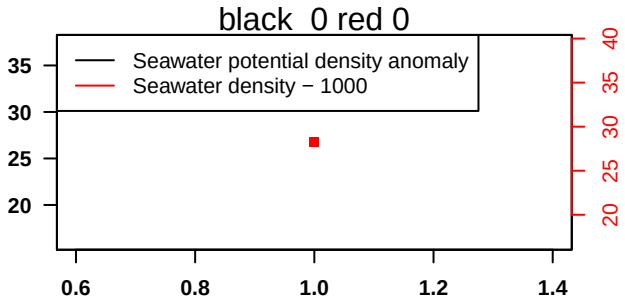

lovbio010b_038_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

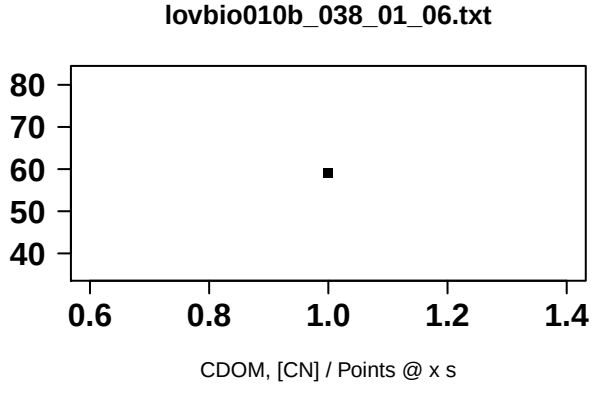

56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

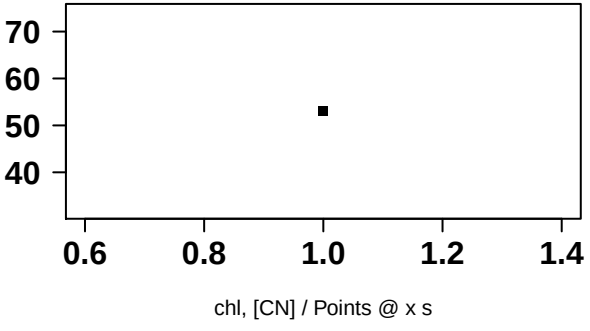

nb days: 8.3 freq: 9.9 min
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

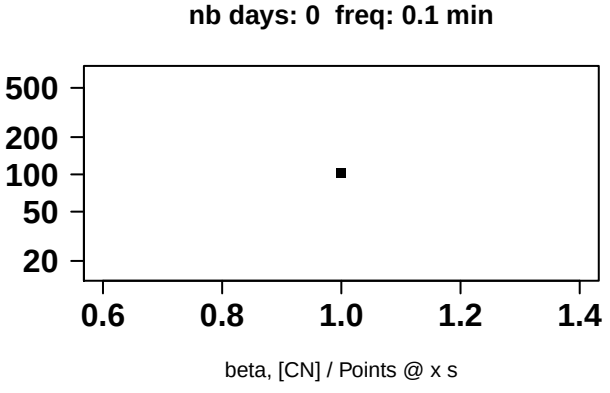

nb days: 8.3 freq: 59.4 min
0.27
0.26
0.25
0.24
0.23
0.22
0.21
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

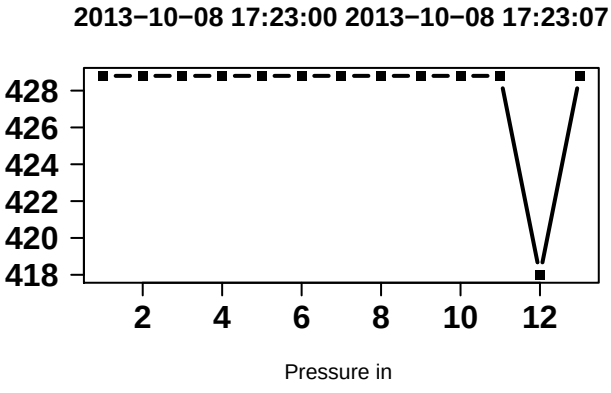

2013−10−08 12:50:42 2013−10−08 12:50:50
450
400
350
300
250
200
1.0
1.5
2.0
2.5
3.0
Pressure in

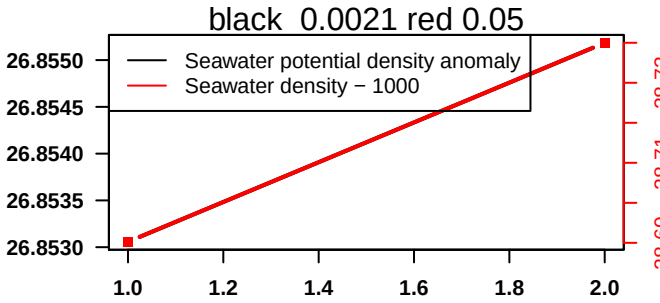

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

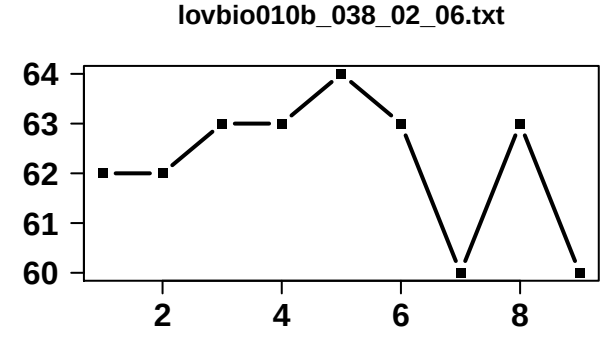

lovbio010b_038_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

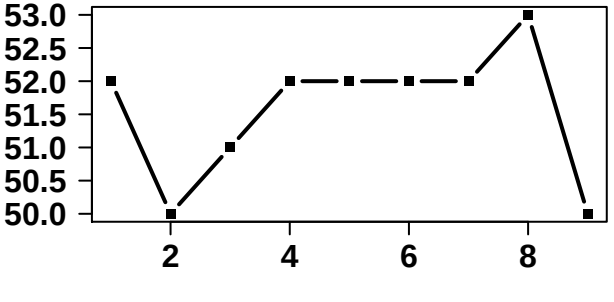

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

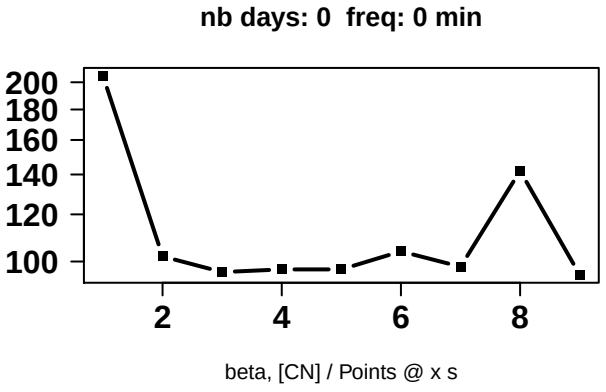

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

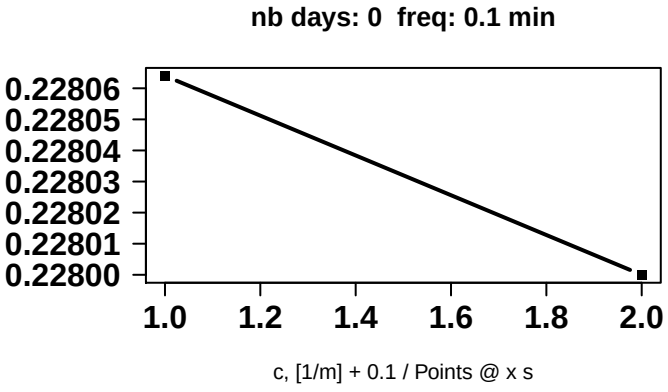

2013−10−08 17:23:00 2013−10−08 17:23:07
428
426
424
422
420
418
2
4
6
8
10
12
Pressure in

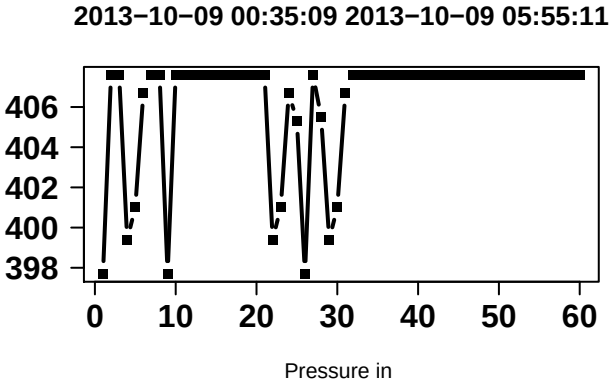

black 0.0021 red 0.05
Seawater potential density anomaly
Seawater density − 1000
26.8550
26.8545
26.8540
26.8535
26.8530
28.73
28.71
28.69
1.0
1.2
1.4
1.6
1.8
2.0

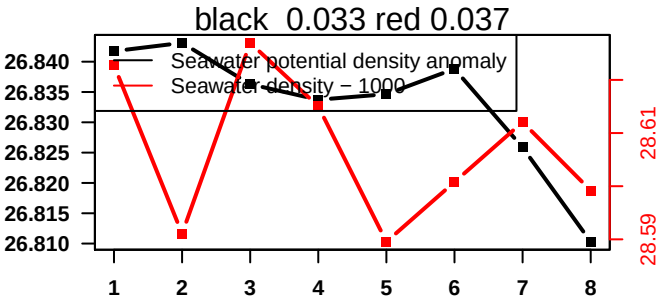

lovbio010b_038_02_06.txt
64
63
62
61
60
2
4
6
8
CDOM, [CN] / Points @ x s

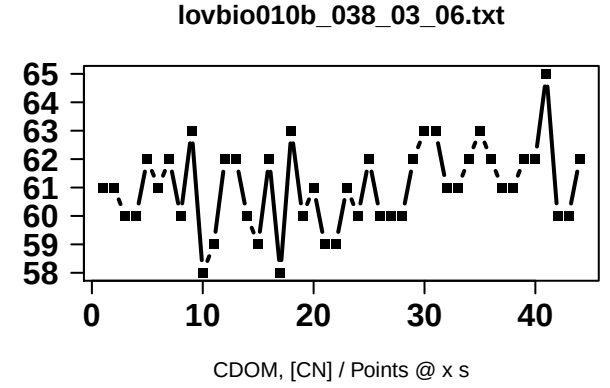

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

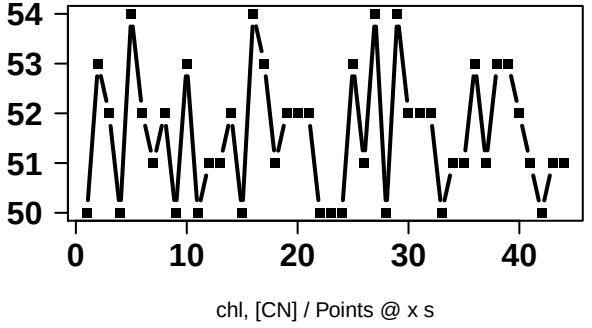

nb days: 0 freq: 0 min
200
180
160
140
120
100
2
4
6
8
beta, [CN] / Points @ x s

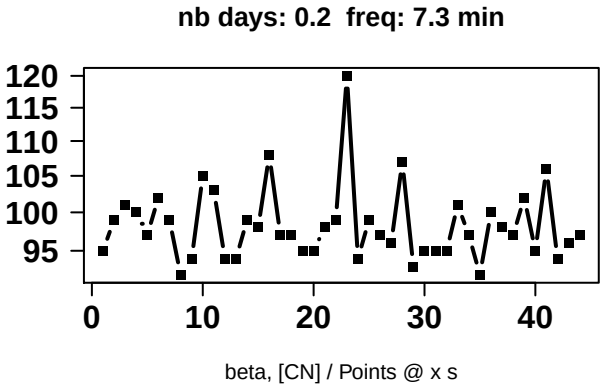

nb days: 0 freq: 0.1 min
0.22806
0.22805
0.22804
0.22803
0.22802
0.22801
0.22800
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

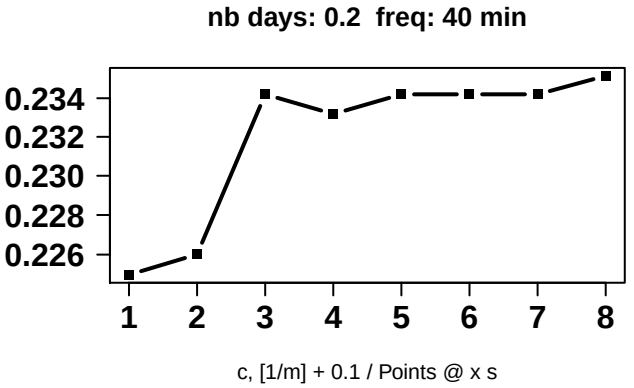

2013−10−09 00:35:09 2013−10−09 05:55:11
406
404
402
400
398
0
10
20
30
40
50
60
Pressure in

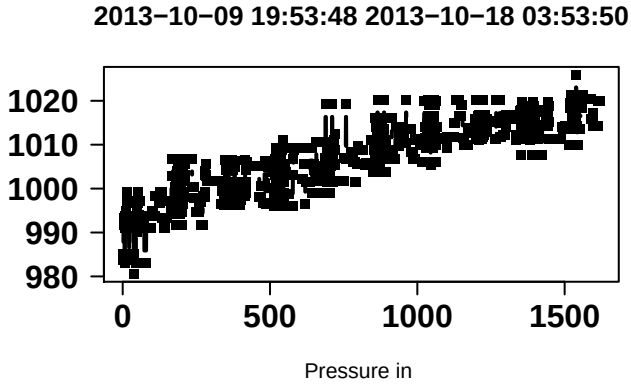

black 0.033 red 0.037
Seawater potential density anomaly
Seawater density − 1000
26.840
26.835
26.830
26.825
26.820
26.815
26.810
28.61
28.59
1
2
3
4
5
6
7
8

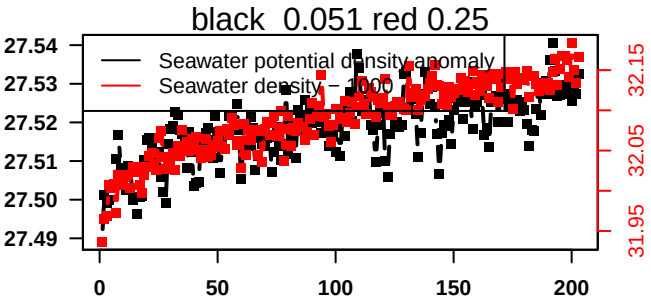

lovbio010b_038_03_06.txt
65
64
63
62
61
60
59
58
0
10
20
30
40
CDOM, [CN] / Points @ x s

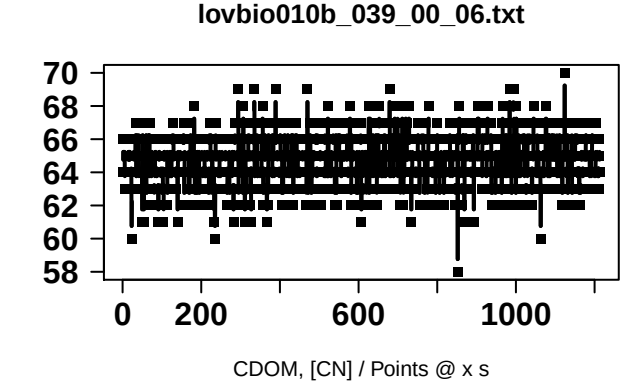

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

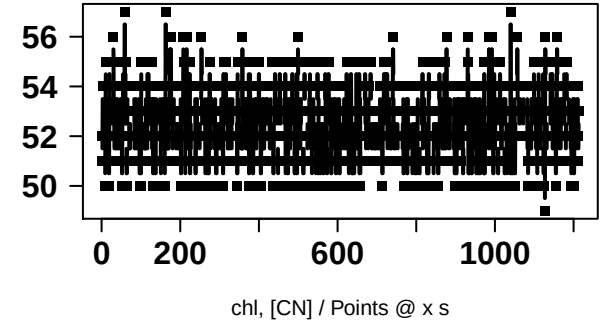

nb days: 0.2 freq: 7.3 min
120
115
110
105
100
95
0
10
20
30
40
beta, [CN] / Points @ x s

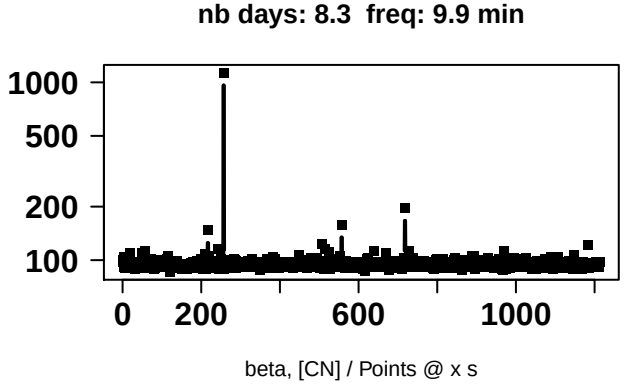

nb days: 0.2 freq: 40 min
0.234
0.232
0.230
0.228
0.226
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

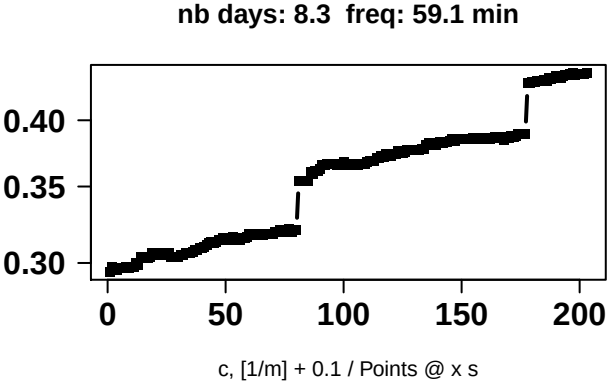

2013−10−09 19:53:48 2013−10−18 03:53:50
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

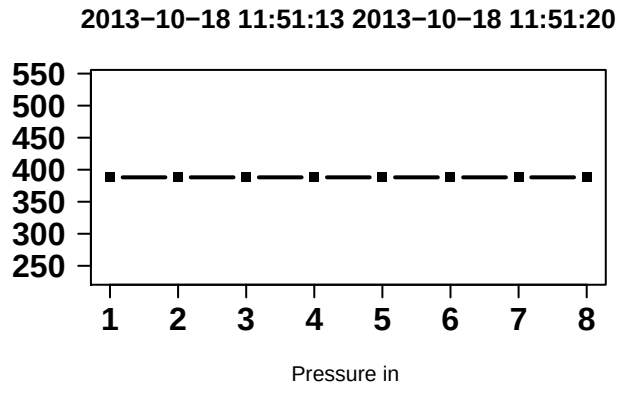

black 0.051 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
27.49
32.15
32.05
31.95
0
50
100
150
200

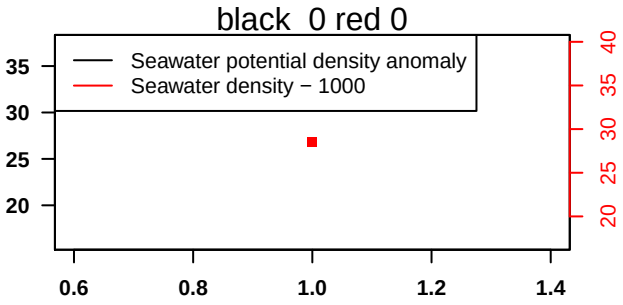

lovbio010b_039_00_06.txt
70
68
66
64
62
60
58
0
200
600
1000
CDOM, [CN] / Points @ x s

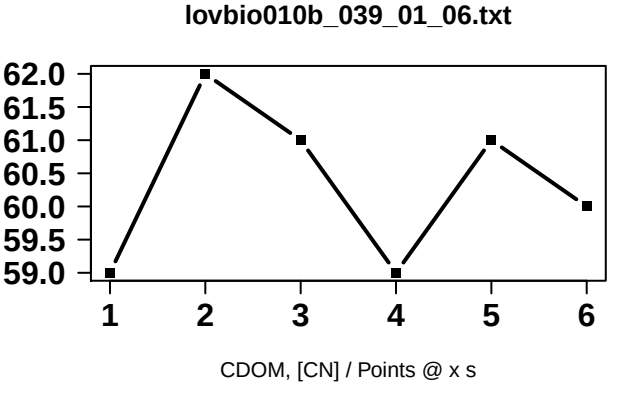

56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

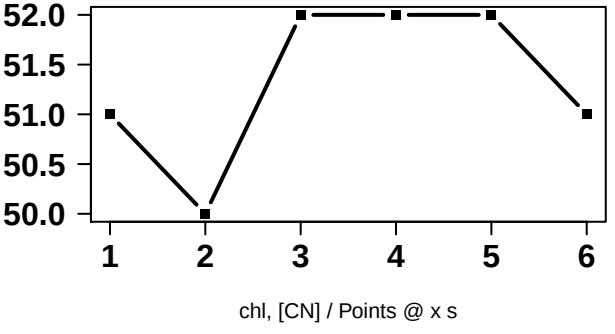

nb days: 8.3 freq: 9.9 min
1000
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

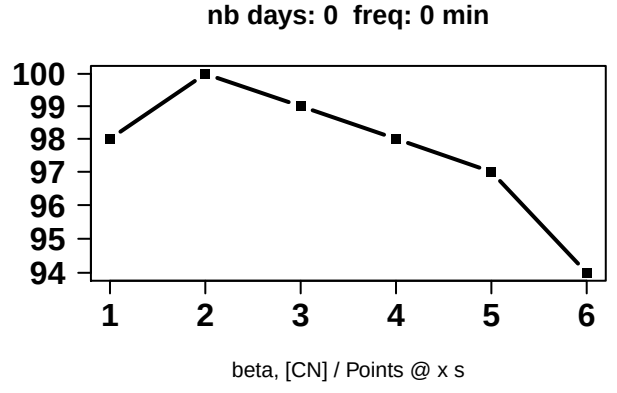

nb days: 8.3 freq: 59.1 min
0.40
0.35
0.30
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

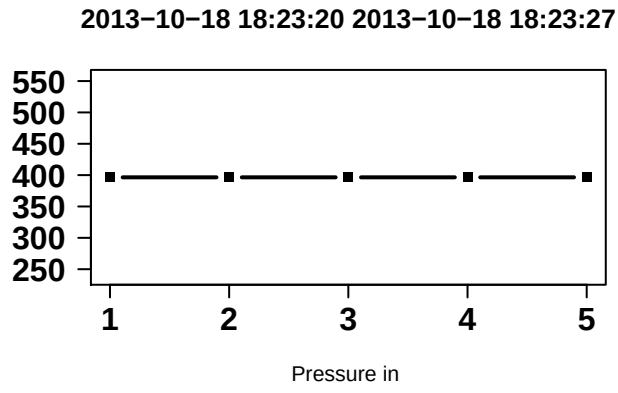

2013−10−18 11:51:13 2013−10−18 11:51:20
550
500
450
400
350
300
250
1
2
3
4
5
6
7
8
Pressure in

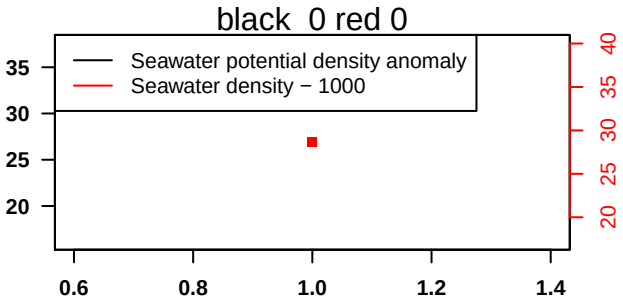

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

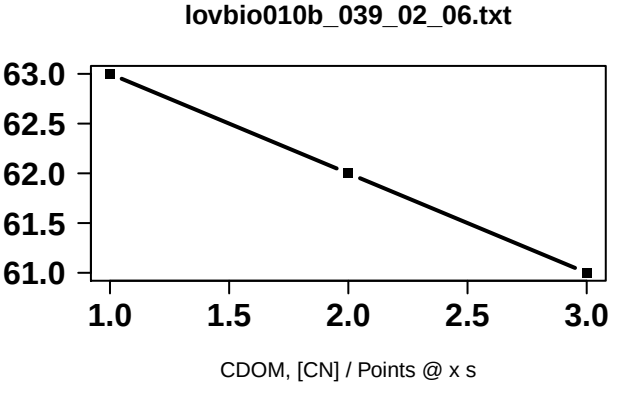

lovbio010b_039_01_06.txt
62.0
61.5
61.0
60.5
60.0
59.5
59.0
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

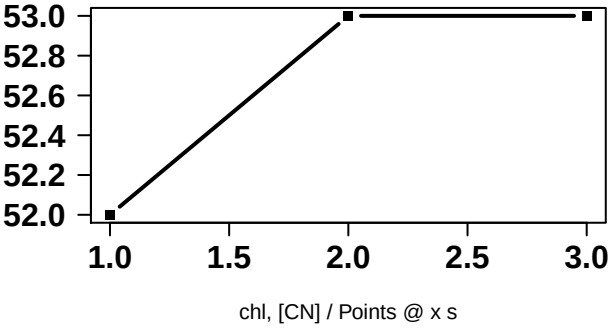

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

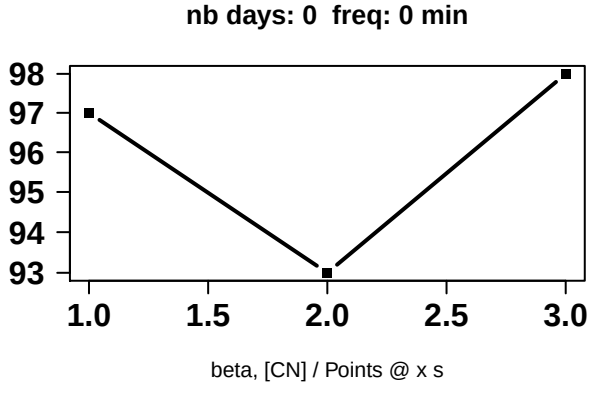

nb days: 0 freq: 0 min
100
99
98
97
96
95
94
1
2
3
4
5
6
beta, [CN] / Points @ x s

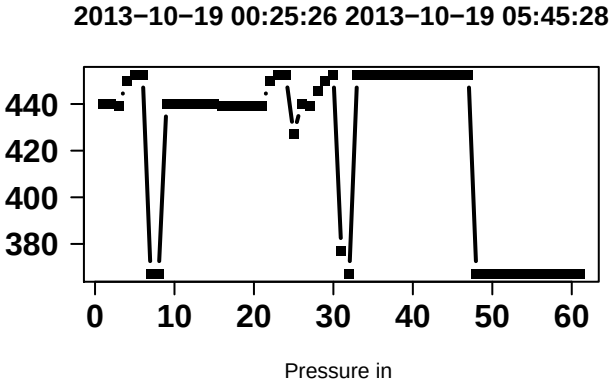

2013−10−18 18:23:20 2013−10−18 18:23:27
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

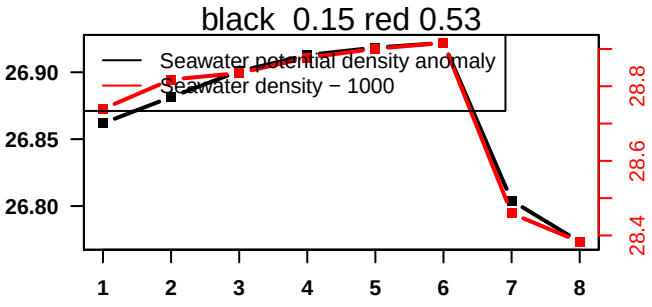

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

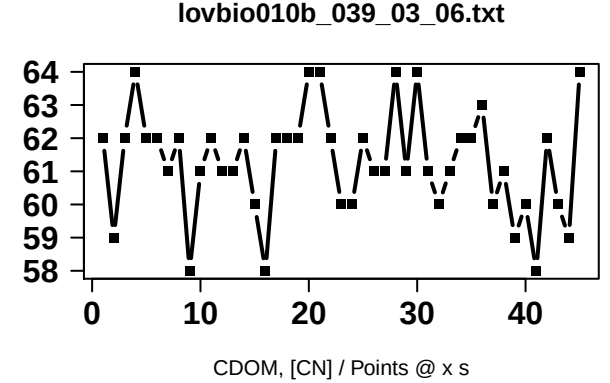

lovbio010b_039_02_06.txt
63.0
62.5
62.0
61.5
61.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

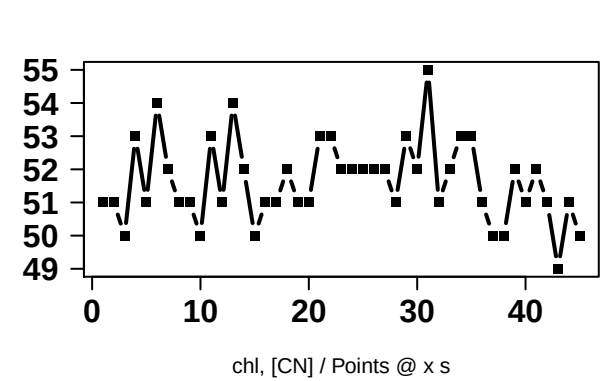

53.0
52.8
52.6
52.4
52.2
52.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

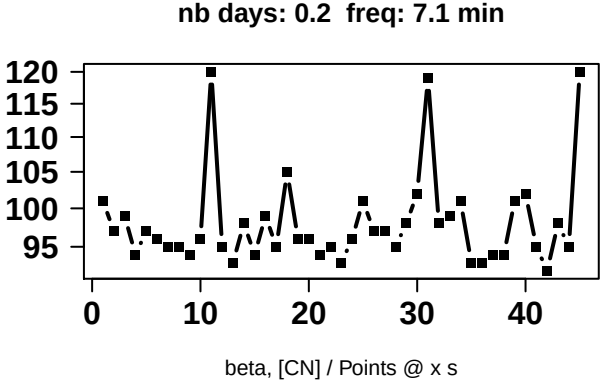

nb days: 0 freq: 0 min
98
97
96
95
94
93
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

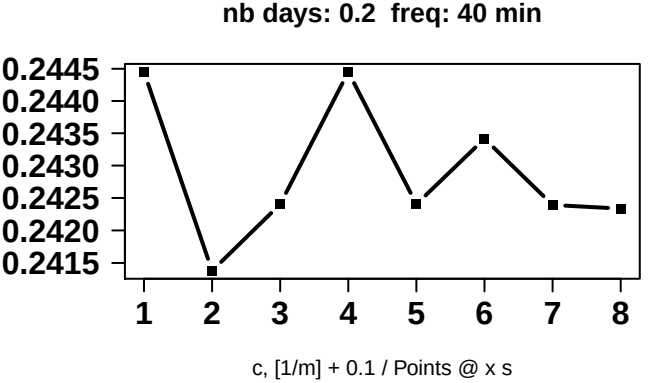

2013−10−19 00:25:26 2013−10−19 05:45:28
440
420
400
380
0
10
20
30
40
50
60
Pressure in

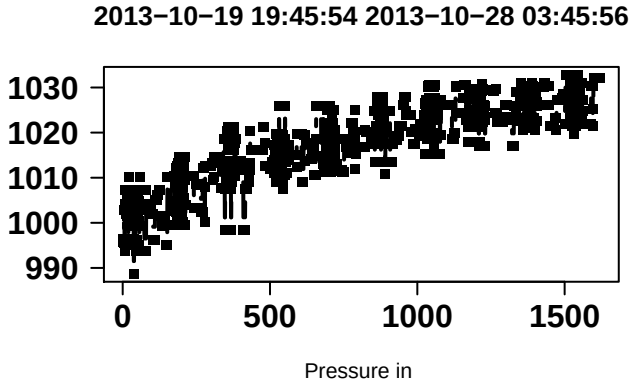

black 0.15 red 0.53
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
28.8
28.6
28.4
1
2
3
4
5
6
7
8

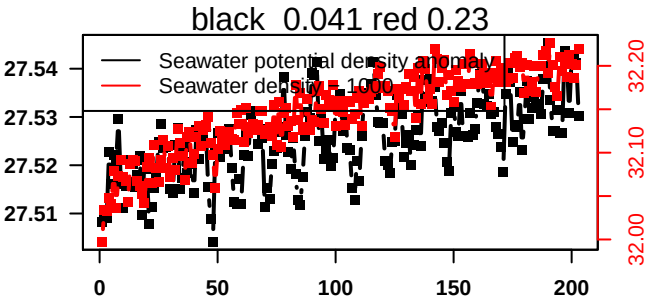

lovbio010b_039_03_06.txt
64
63
62
61
60
59
58
0
10
20
30
40
CDOM, [CN] / Points @ x s

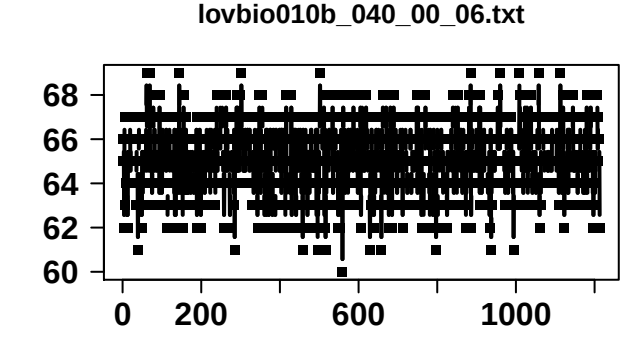

55
54
53
52
51
50
49
0
10
20
30
40
chl, [CN] / Points @ x s

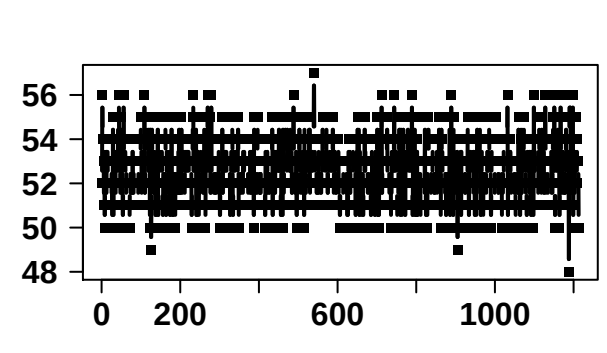

nb days: 0.2 freq: 7.1 min
120
115
110
105
100
95
0
10
20
30
40
beta, [CN] / Points @ x s

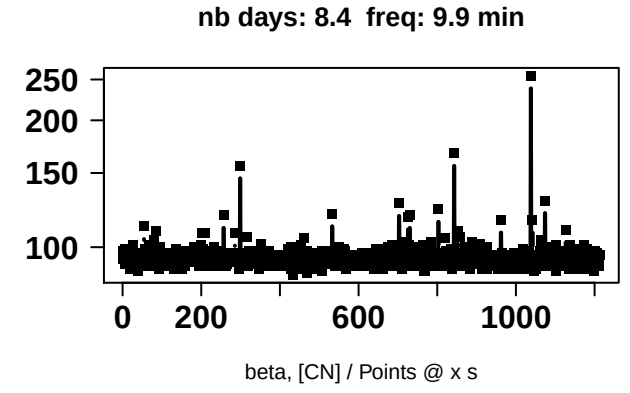

nb days: 0.2 freq: 40 min
0.2445
0.2440
0.2435
0.2430
0.2425
0.2420
0.2415
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

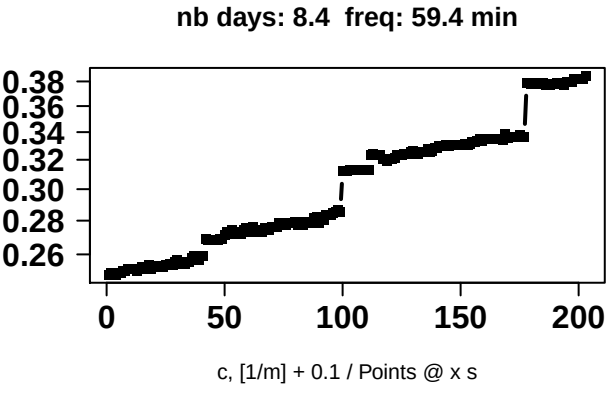

2013−10−19 19:45:54 2013−10−28 03:45:56
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

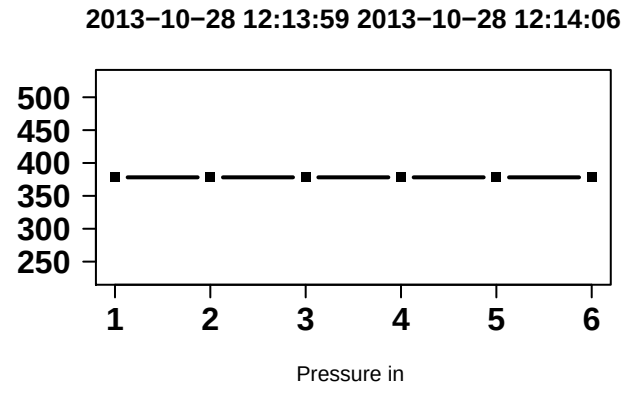

black 0.041 red 0.23
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
32.20
32.10
32.00
0
50
100
150
200

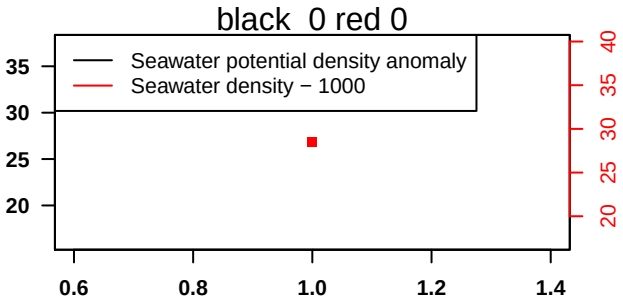

lovbio010b_040_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

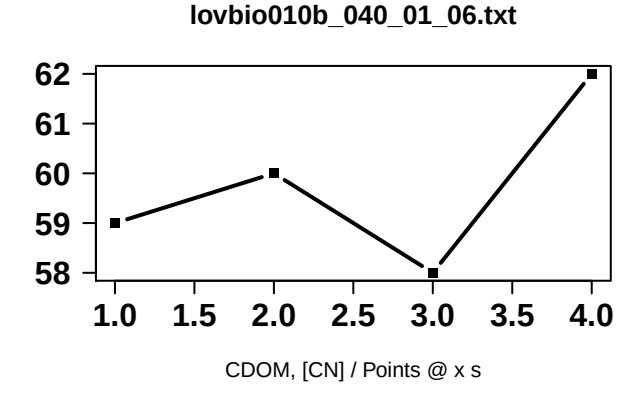

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

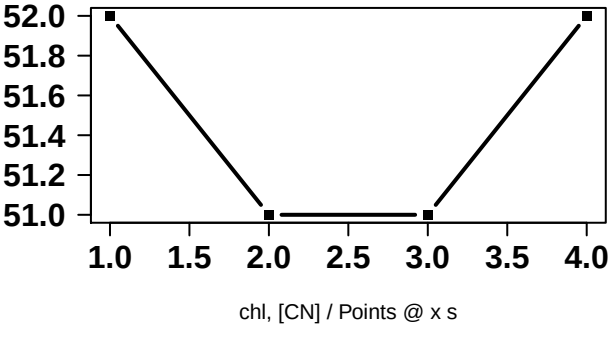

nb days: 8.4 freq: 9.9 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

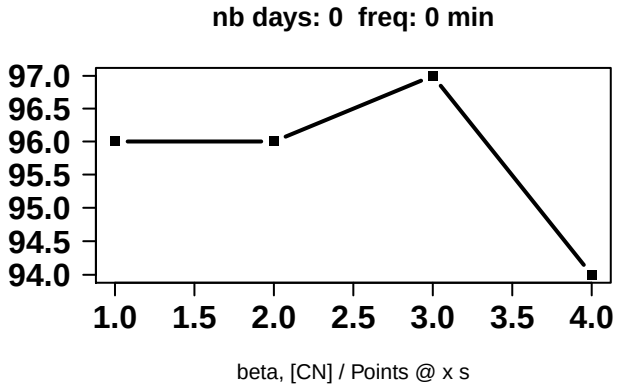

nb days: 8.4 freq: 59.4 min
0.38
0.36
0.34
0.32
0.30
0.28
0.26
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

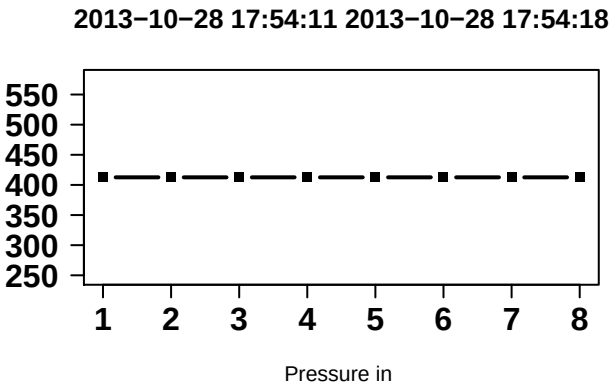

2013−10−28 12:13:59 2013−10−28 12:14:06
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

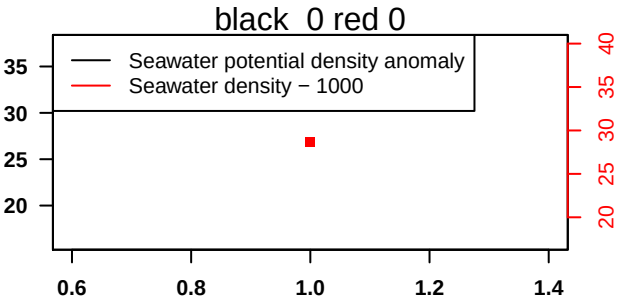

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

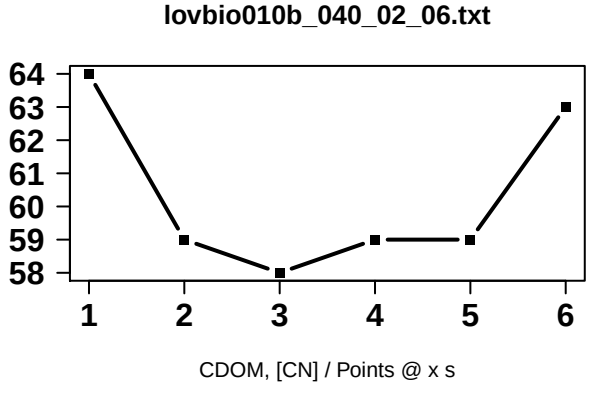

lovbio010b_040_01_06.txt
62
61
60
59
58
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

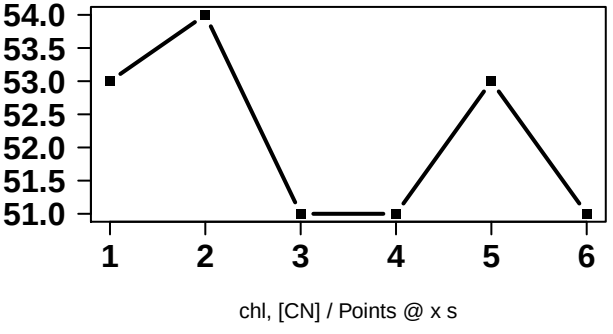

52.0
51.8
51.6
51.4
51.2
51.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

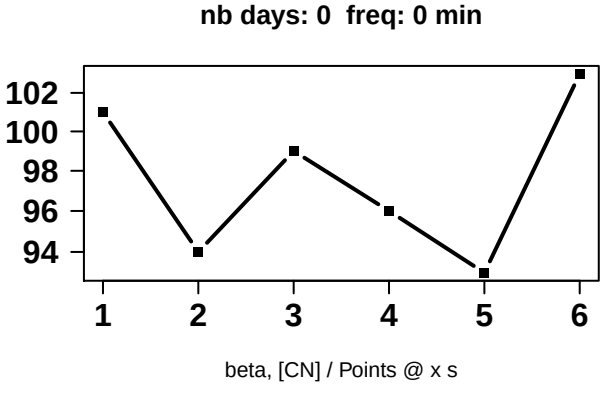

nb days: 0 freq: 0 min
97.0
96.5
96.0
95.5
95.0
94.5
94.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

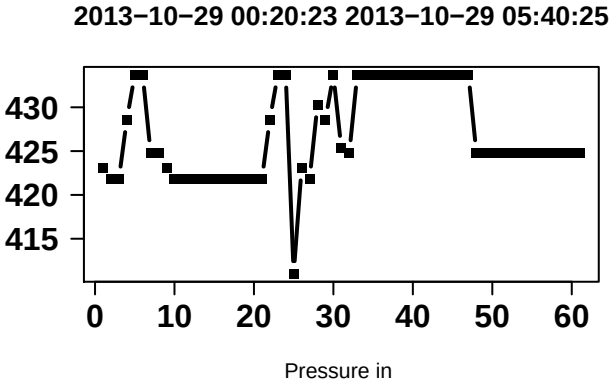

2013−10−28 17:54:11 2013−10−28 17:54:18
550
500
450
400
350
300
250
1
2
3
4
5
6
7
8
Pressure in

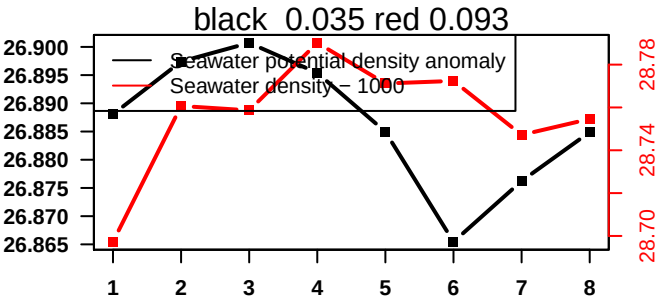

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
20
25
30
35
40

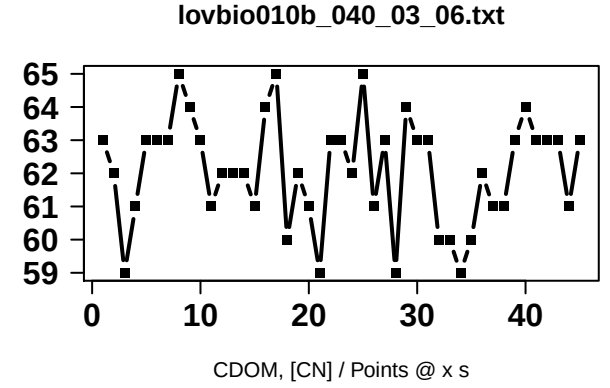

lovbio010b_040_02_06.txt
64
63
62
61
60
59
58
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

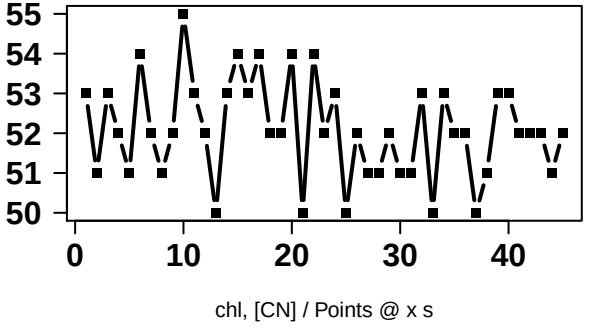

54.0
53.5
53.0
52.5
52.0
51.5
51.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

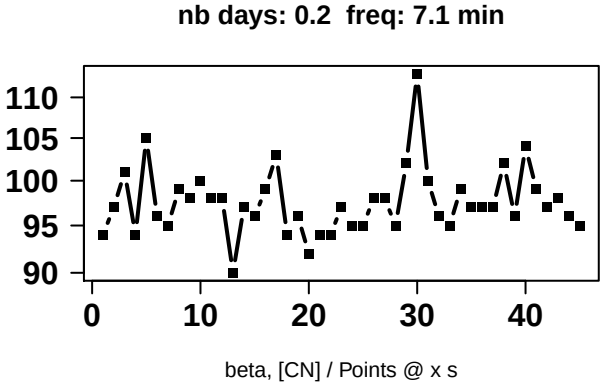

nb days: 0 freq: 0 min
102
100
98
96
94
1
2
3
4
5
6
beta, [CN] / Points @ x s

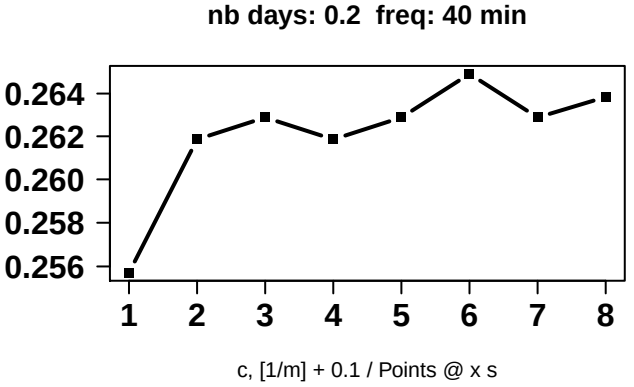

2013−10−29 00:20:23 2013−10−29 05:40:25
430
425
420
415
0
10
20
30
40
50
60
Pressure in

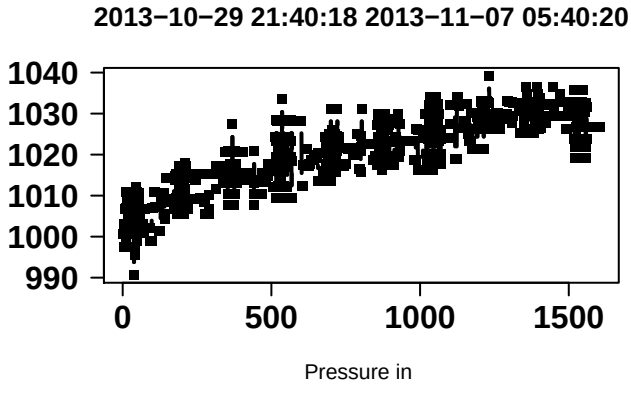

black 0.035 red 0.093
Seawater potential density anomaly
Seawater density − 1000
26.900
26.895
26.890
26.885
26.880
26.875
26.870
26.865
28.78
28.74
28.70
1
2
3
4
5
6
7
8

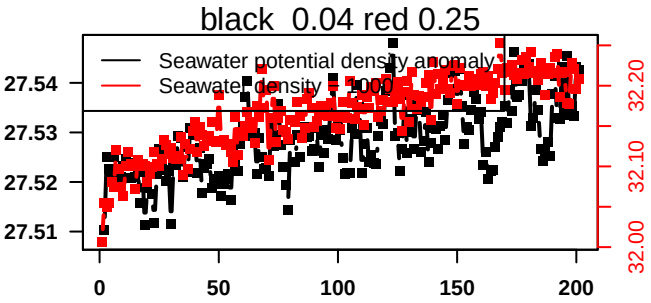

lovbio010b_040_03_06.txt
65
64
63
62
61
60
59
0
10
20
30
40
CDOM, [CN] / Points @ x s

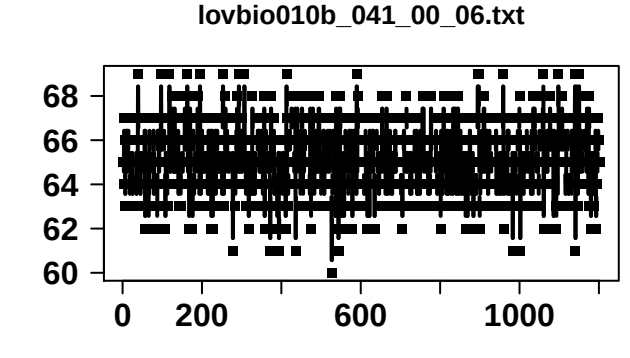

55
54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

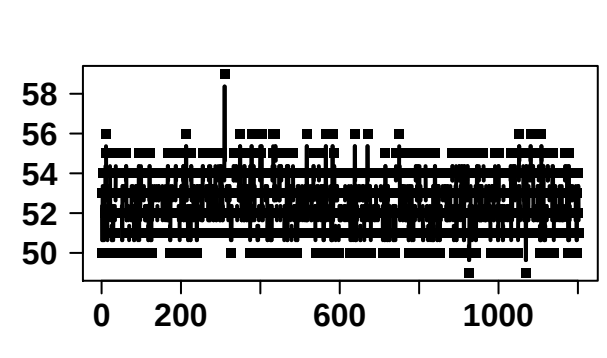

nb days: 0.2 freq: 7.1 min
110
105
100
95
90
0
10
20
30
40
beta, [CN] / Points @ x s

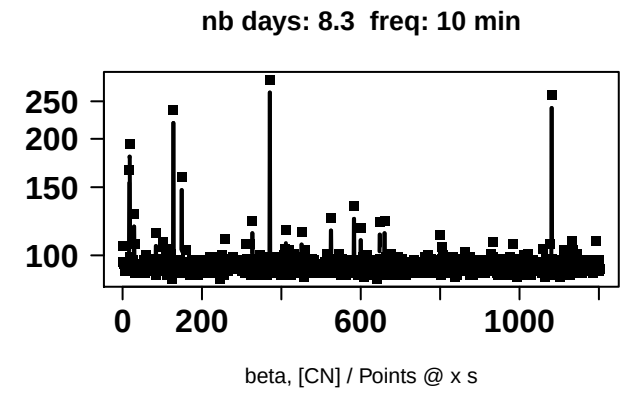

nb days: 0.2 freq: 40 min
0.264
0.262
0.260
0.258
0.256
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

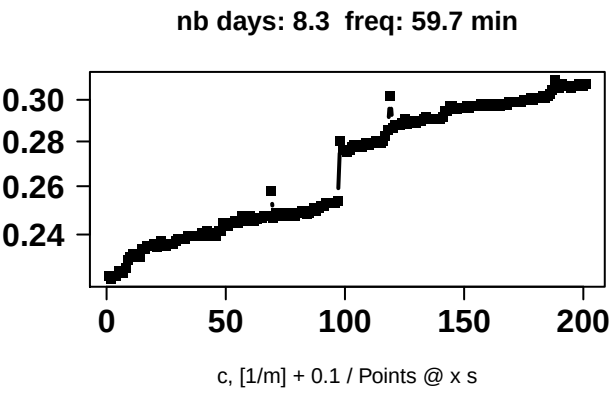

2013−10−29 21:40:18 2013−11−07 05:40:20
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

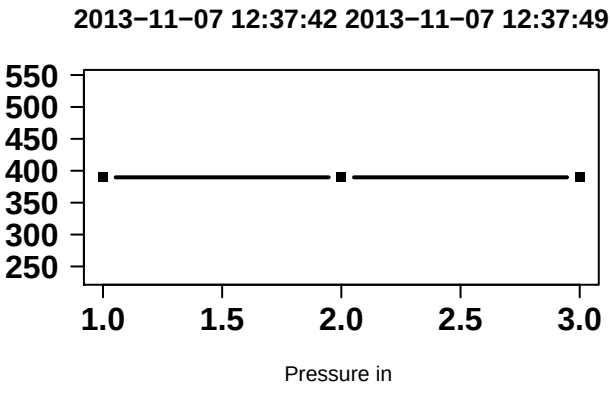

black 0.04 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
32.20
32.10
32.00
0
50
100
150
200

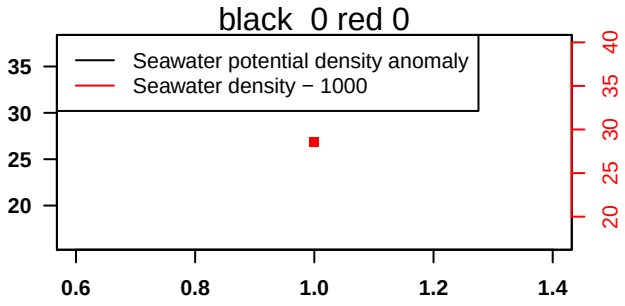

lovbio010b_041_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

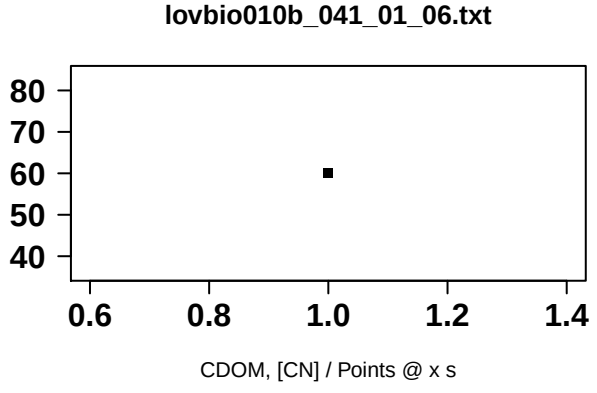

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

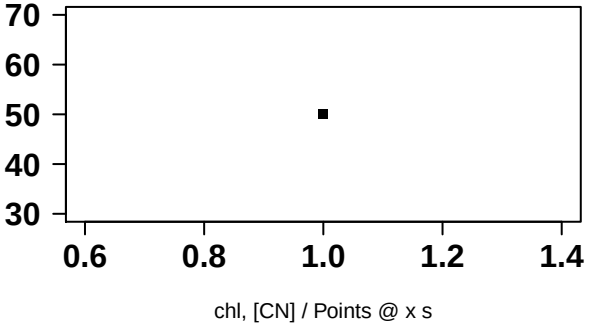

nb days: 8.3 freq: 10 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

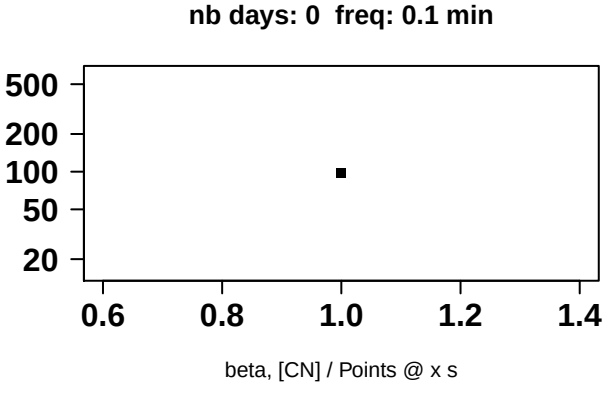

nb days: 8.3 freq: 59.7 min
0.30
0.28
0.26
0.24
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

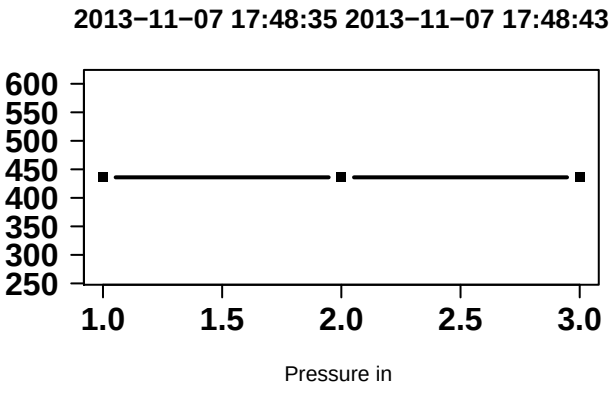

2013−11−07 12:37:42 2013−11−07 12:37:49
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

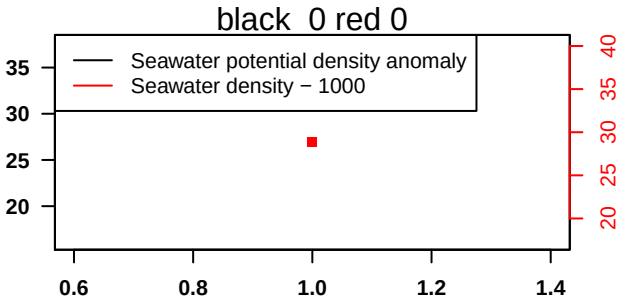

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

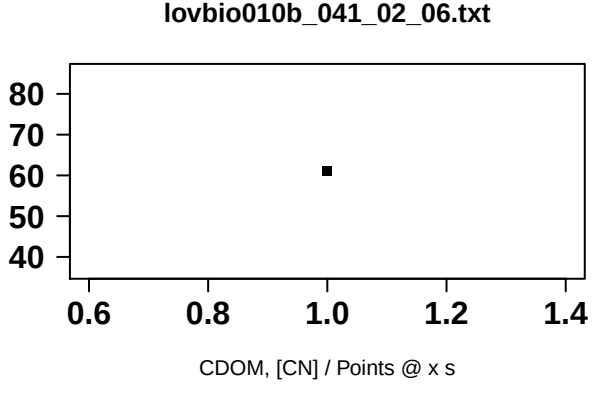

lovbio010b_041_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

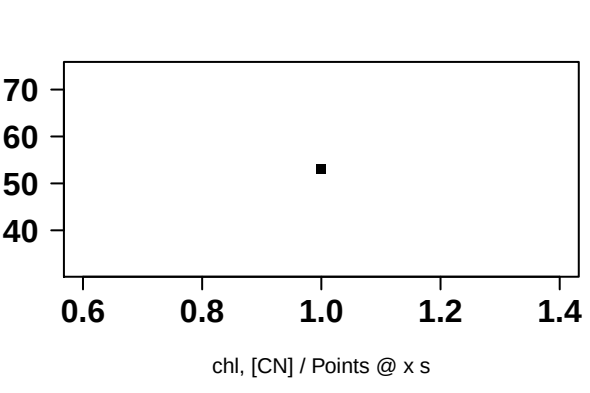

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

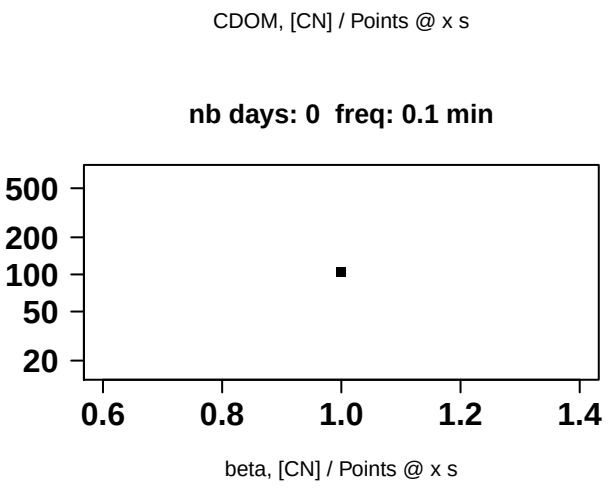

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

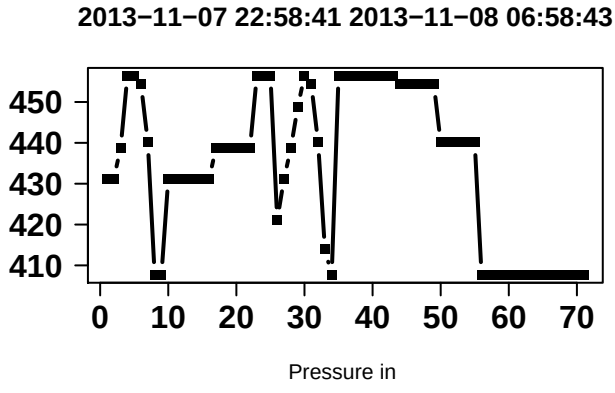

2013−11−07 17:48:35 2013−11−07 17:48:43
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

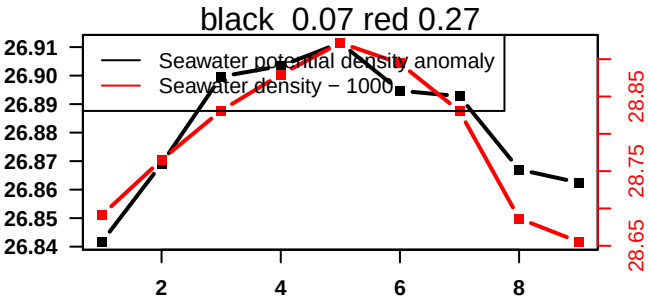

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

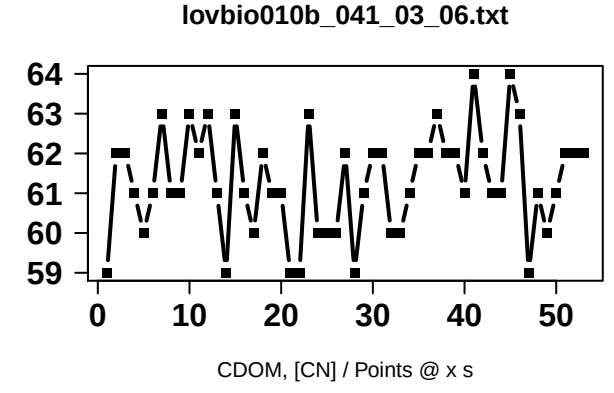

lovbio010b_041_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

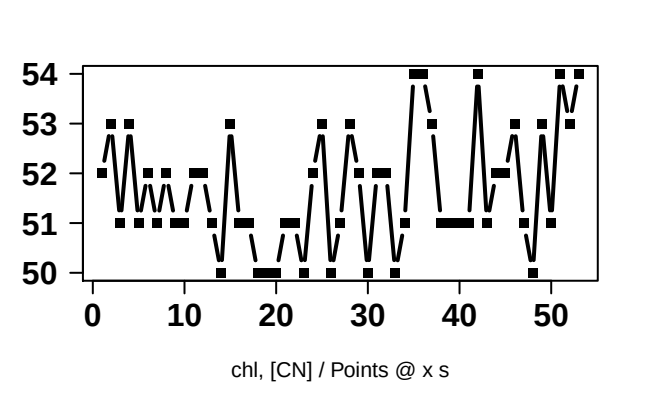

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

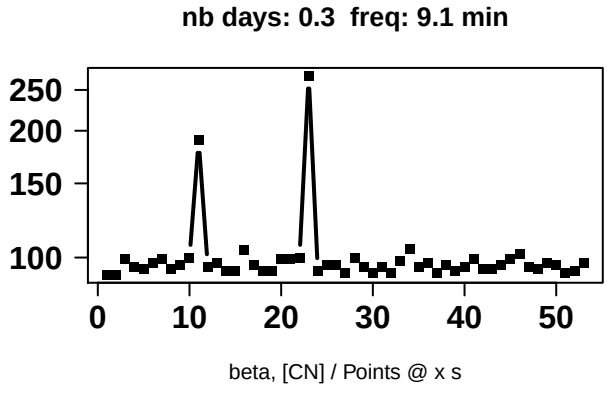

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

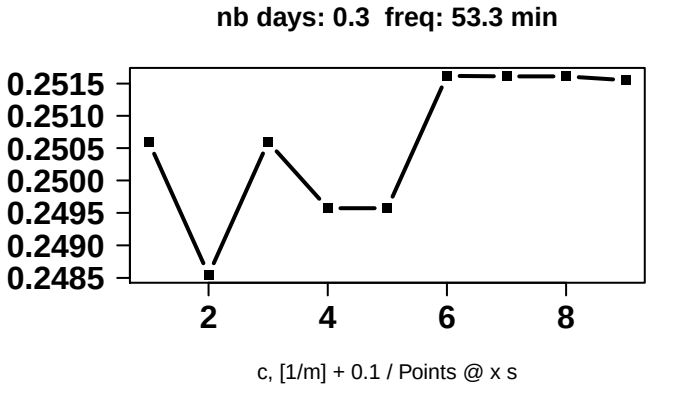

2013−11−07 22:58:41 2013−11−08 06:58:43
450
440
430
420
410
0
10
20
30
40
50
60
70
Pressure in

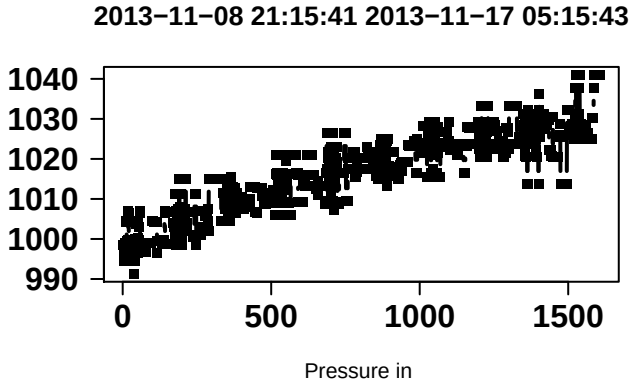

black 0.07 red 0.27
Seawater potential density anomaly
Seawater density − 1000
26.91
26.90
26.89
26.88
26.87
26.86
26.85
26.84
2
4
6
8
28.85
28.75
28.65

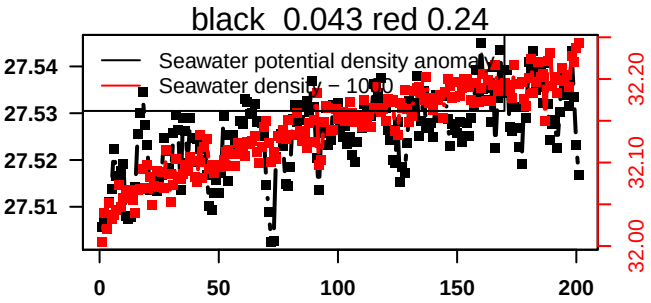

lovbio010b_041_03_06.txt
64
63
62
61
60
59
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

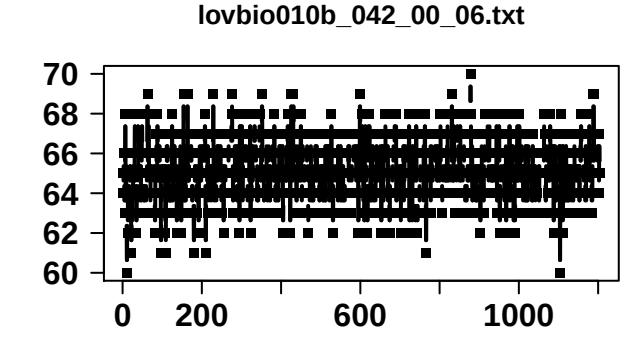

54
53
52
51
50
0
10
20
30
40
50
chl, [CN] / Points @ x s

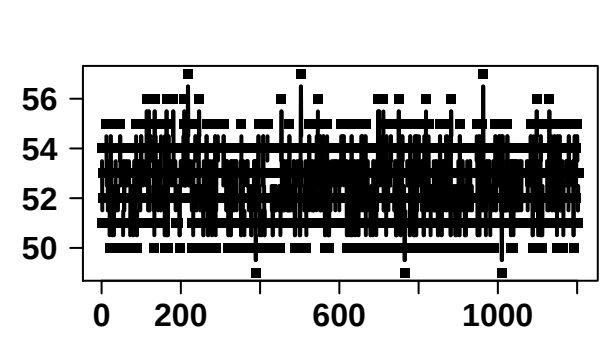

nb days: 0.3 freq: 9.1 min
250
200
150
100
0
10
20
30
40
50
beta, [CN] / Points @ x s

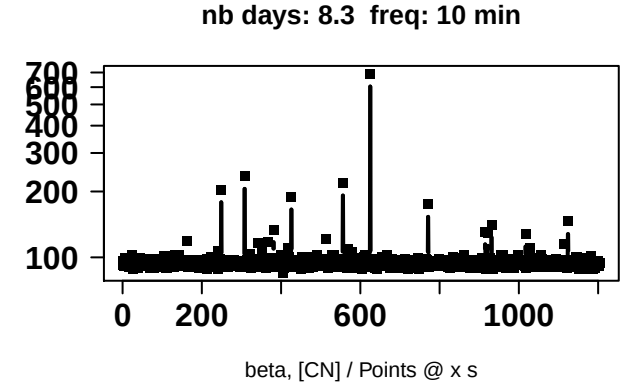

nb days: 0.3 freq: 53.3 min
0.2515
0.2510
0.2505
0.2500
0.2495
0.2490
0.2485
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

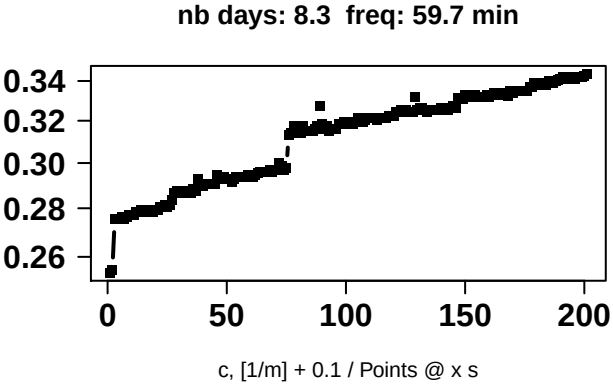

2013−11−08 21:15:41 2013−11−17 05:15:43
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

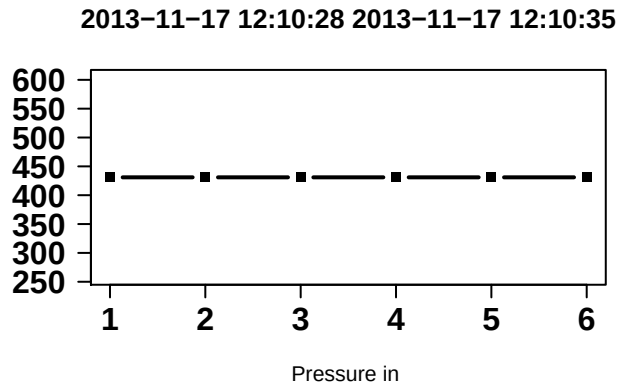

black 0.043 red 0.24
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
32.20
32.10
32.00
0
50
100
150
200

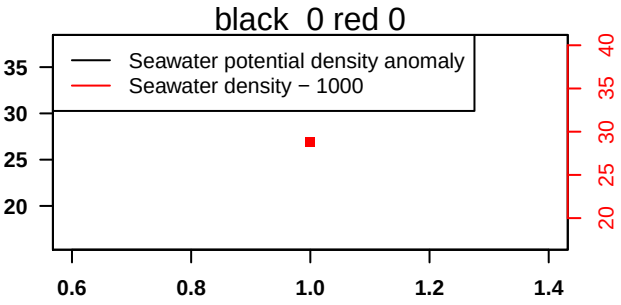

lovbio010b_042_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

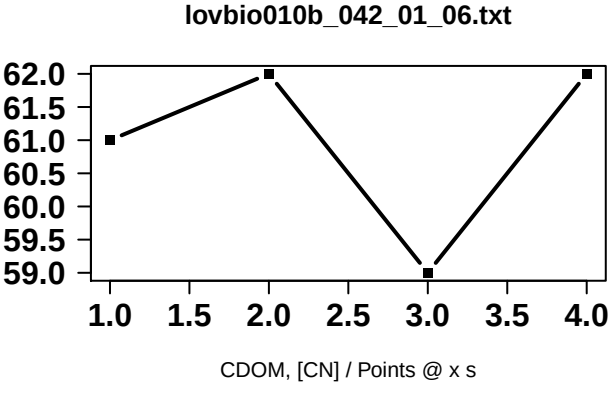

56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

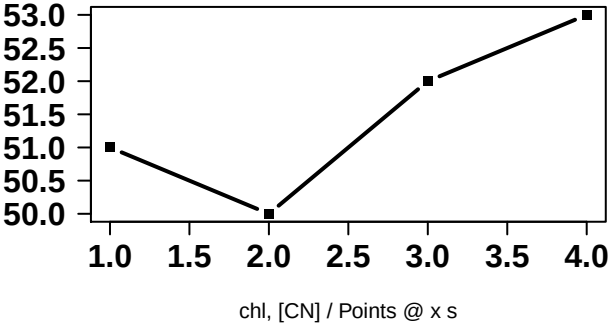

nb days: 8.3 freq: 10 min
700
600
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

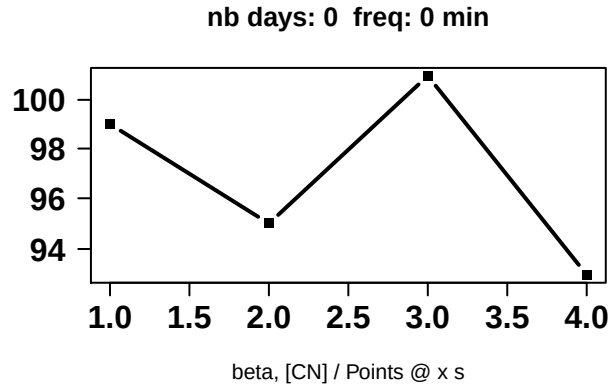

nb days: 8.3 freq: 59.7 min
0.34
0.32
0.30
0.28
0.26
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

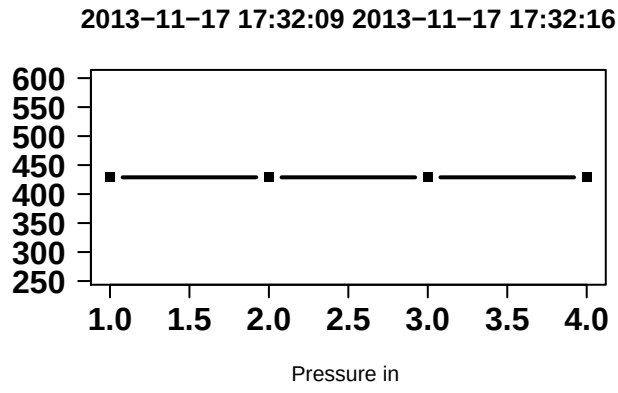

2013−11−17 12:10:28 2013−11−17 12:10:35
600
550
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

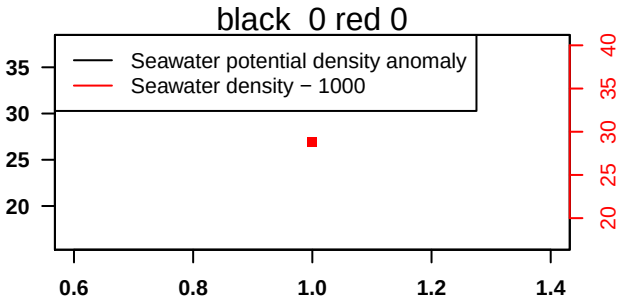

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

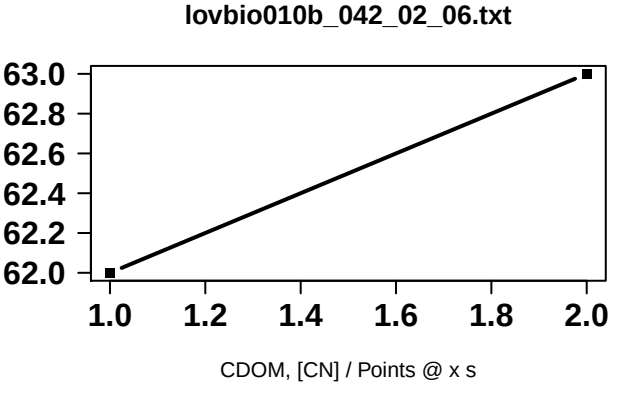

lovbio010b_042_01_06.txt
62.0
61.5
61.0
60.5
60.0
59.5
59.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

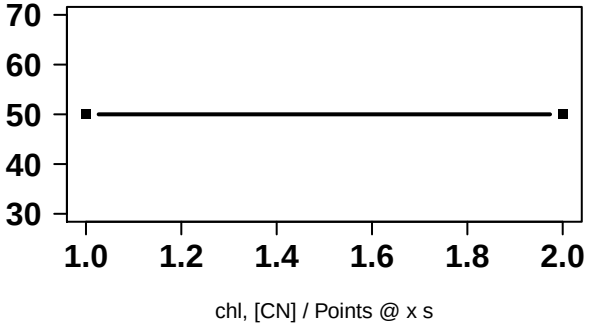

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

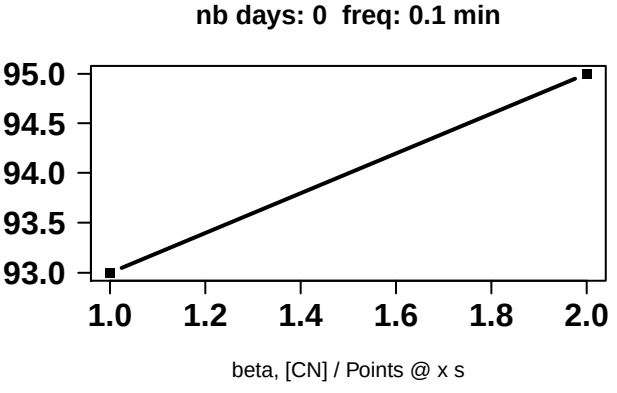

nb days: 0 freq: 0 min
100
98
96
94
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

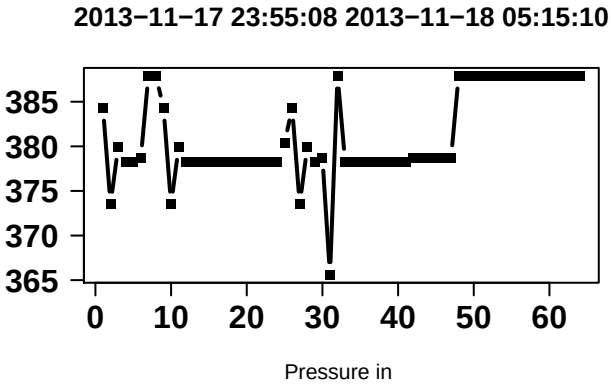

2013−11−17 17:32:09 2013−11−17 17:32:16
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

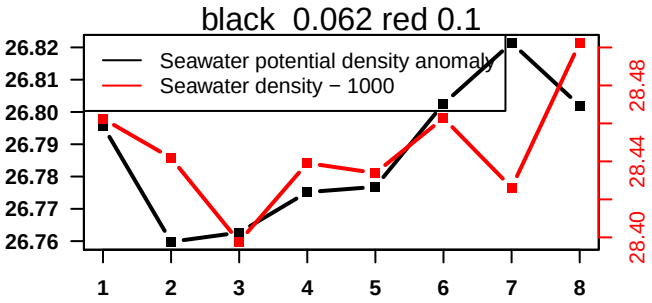

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

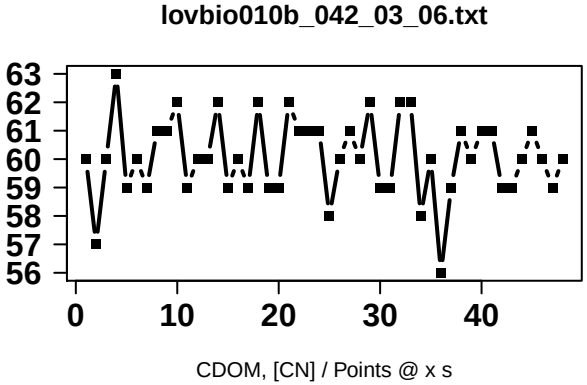

lovbio010b_042_02_06.txt
63.0
62.8
62.6
62.4
62.2
62.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

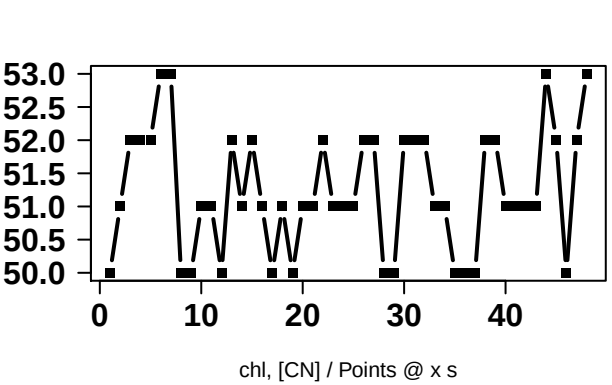

70
60
50
40
30
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

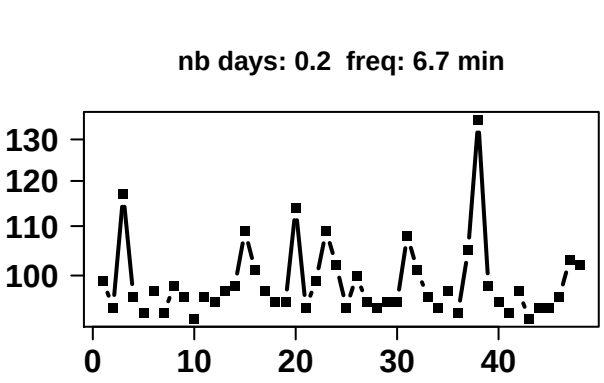

nb days: 0 freq: 0.1 min
95.0
94.5
94.0
93.5
93.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

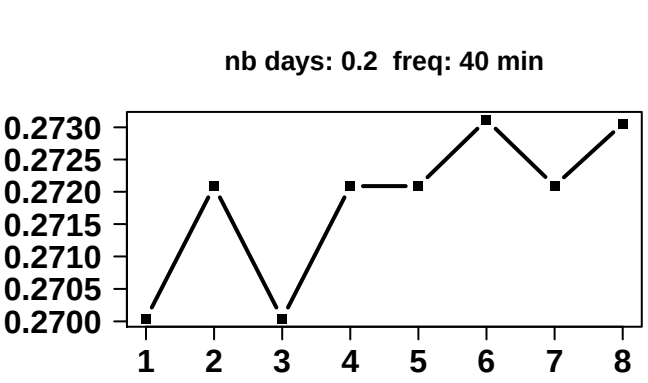

2013−11−17 23:55:08 2013−11−18 05:15:10
385
380
375
370
365
0
10
20
30
40
50
60
Pressure in

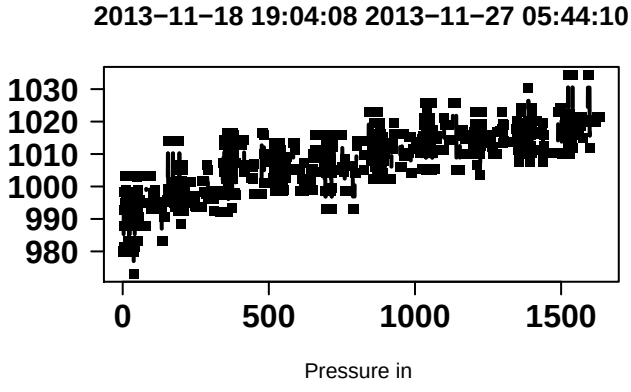

black 0.062 red 0.1
Seawater potential density anomaly
Seawater density − 1000
26.82
26.81
26.80
26.79
26.78
26.77
26.76
28.48
28.44
28.40
1
2
3
4
5
6
7
8

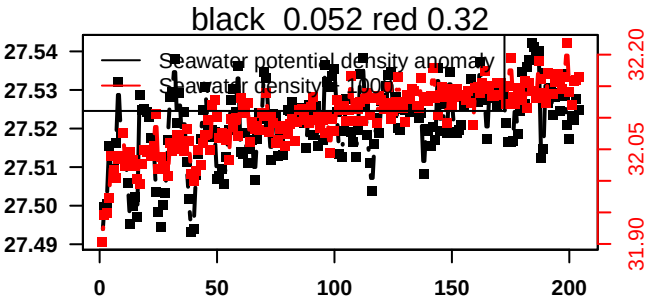

lovbio010b_042_03_06.txt
63
62
61
60
59
58
57
56
0
10
20
30
40
CDOM, [CN] / Points @ x s

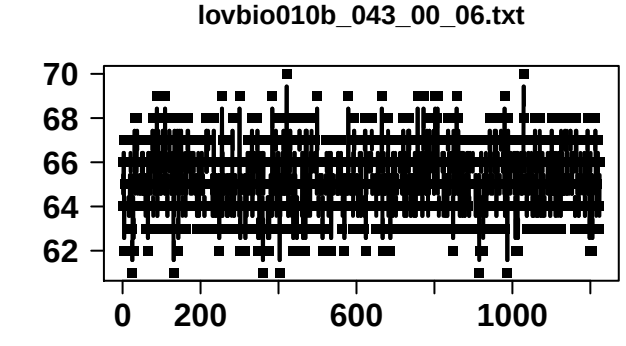

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
chl, [CN] / Points @ x s

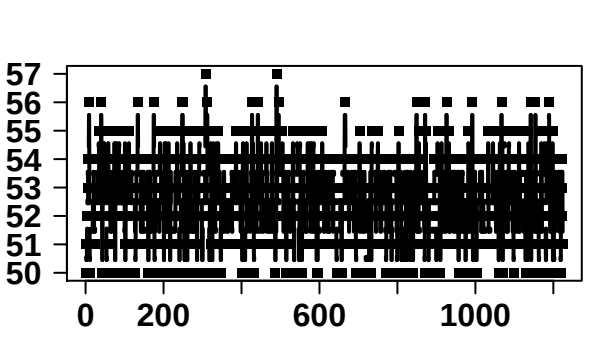

nb days: 0.2 freq: 6.7 min
130
120
110
100
0
10
20
30
40
beta, [CN] / Points @ x s

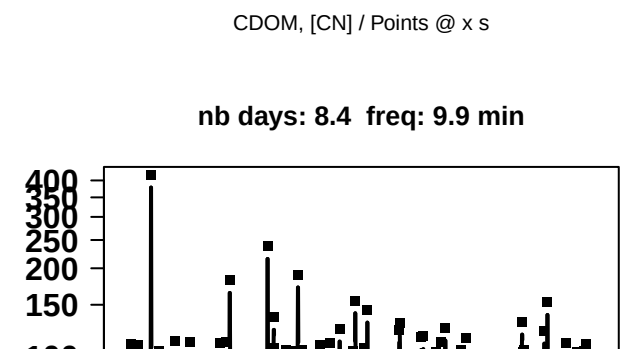

nb days: 0.2 freq: 40 min
0.2730
0.2725
0.2720
0.2715
0.2710
0.2705
0.2700
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

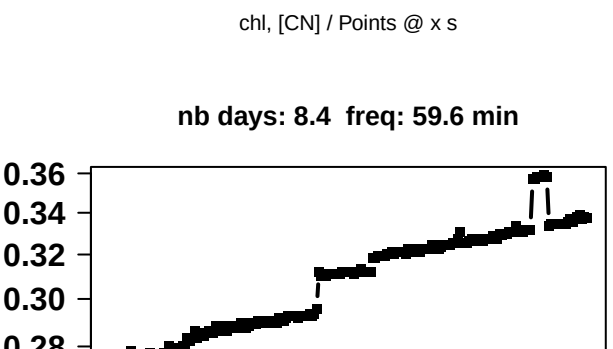

2013−11−18 19:04:08 2013−11−27 05:44:10
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

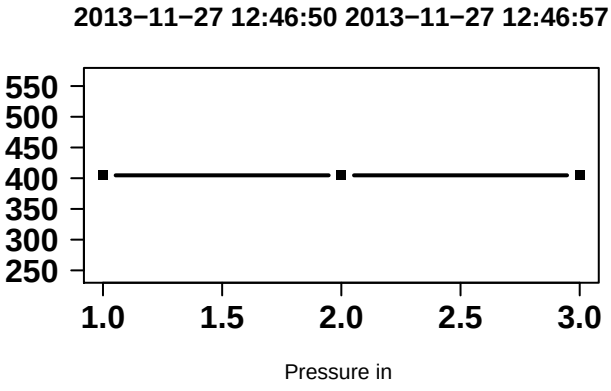

black 0.052 red 0.32
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
27.49
32.20
32.05
31.90
0
50
100
150
200

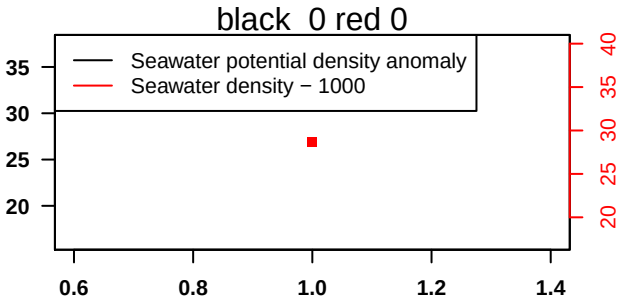

lovbio010b_043_00_06.txt
70
68
66
64
62
0
200
600
1000
CDOM, [CN] / Points @ x s

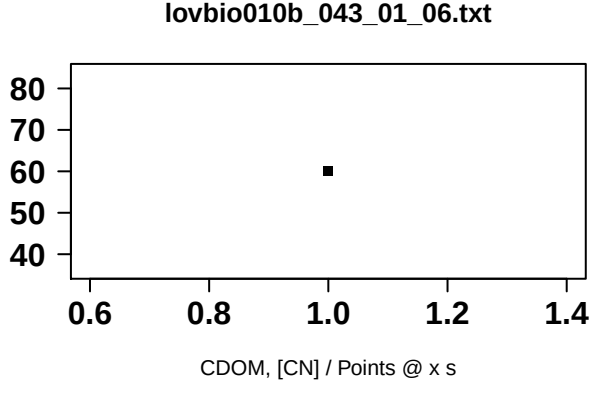

57
56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

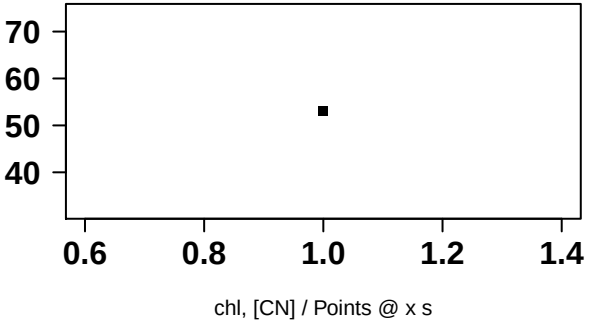

nb days: 8.4 freq: 9.9 min
400
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

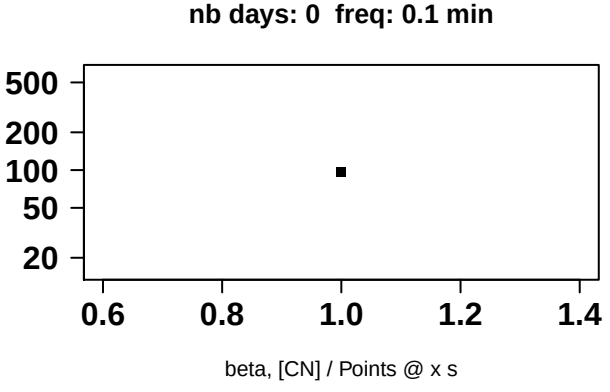

nb days: 8.4 freq: 59.6 min
0.36
0.34
0.32
0.30
0.28
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

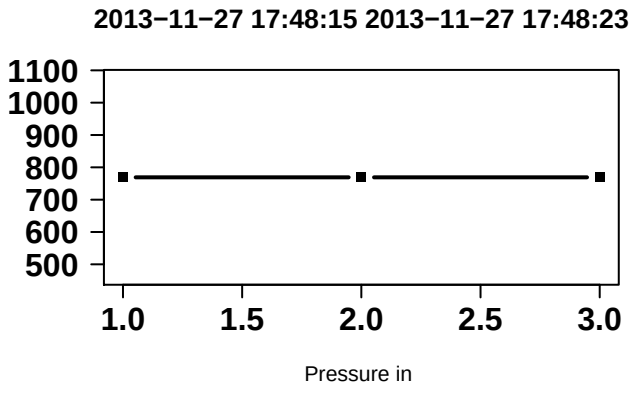

2013−11−27 12:46:50 2013−11−27 12:46:57
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

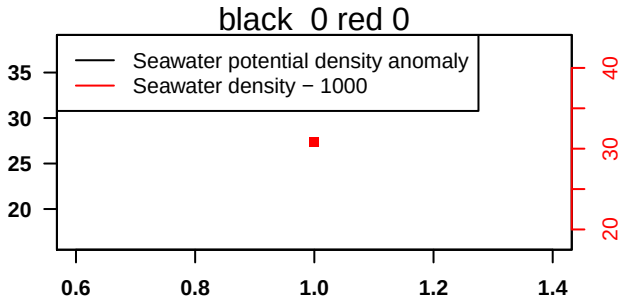

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

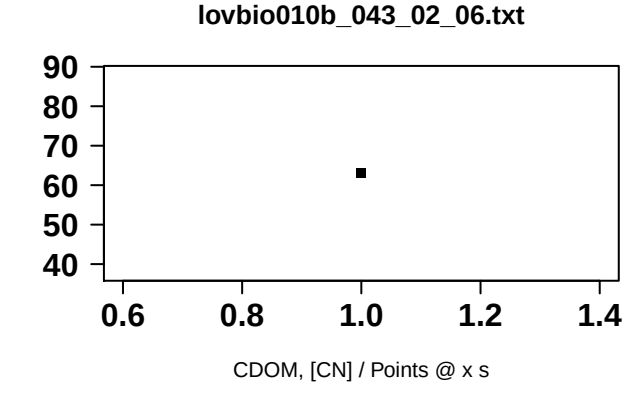

lovbio010b_043_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

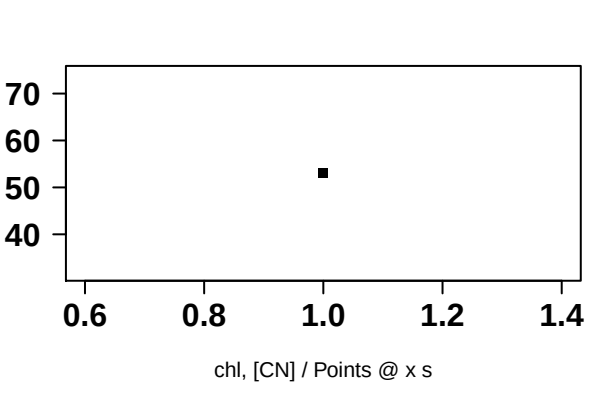

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

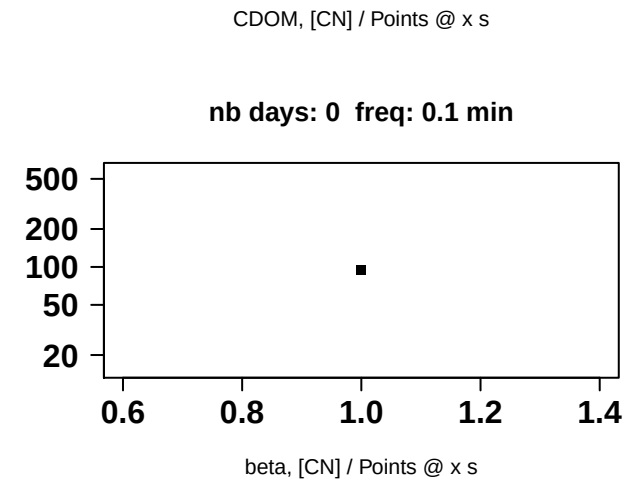

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

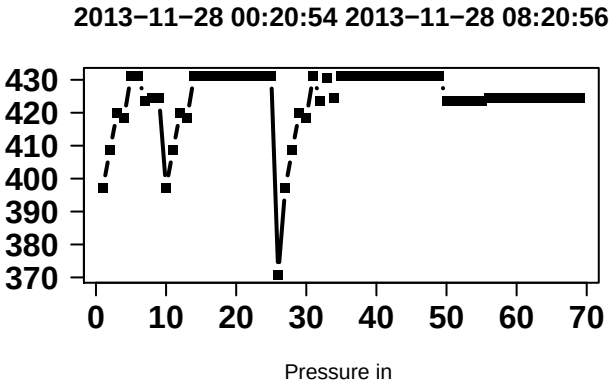

2013−11−27 17:48:15 2013−11−27 17:48:23
1100
1000
900
800
700
600
500
1.0
1.5
2.0
2.5
3.0
Pressure in

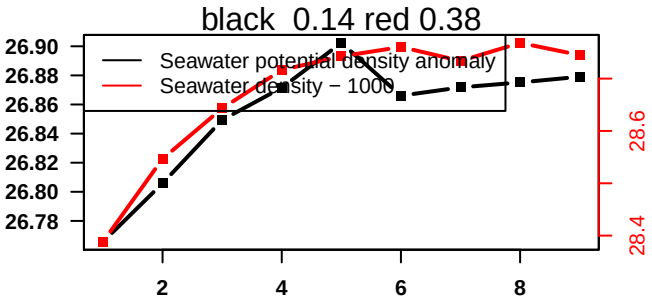

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

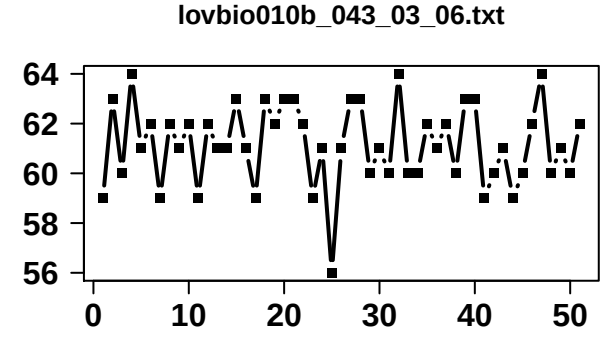

lovbio010b_043_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

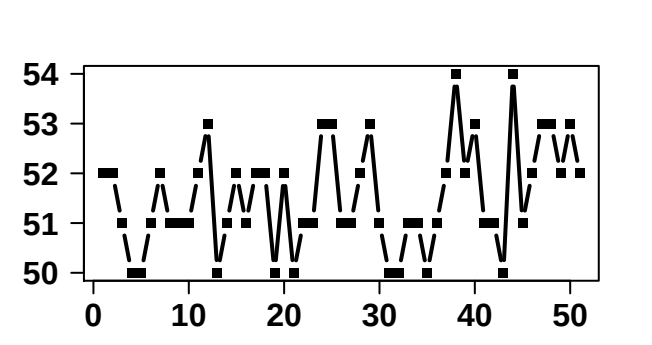

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

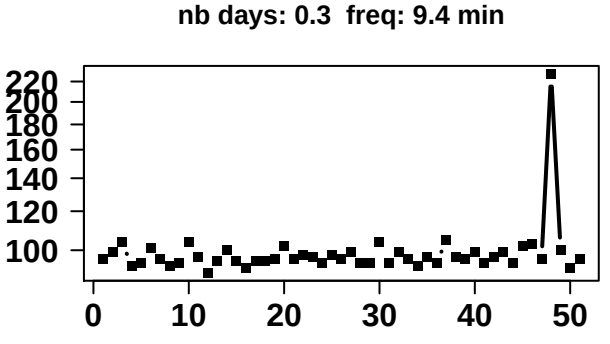

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

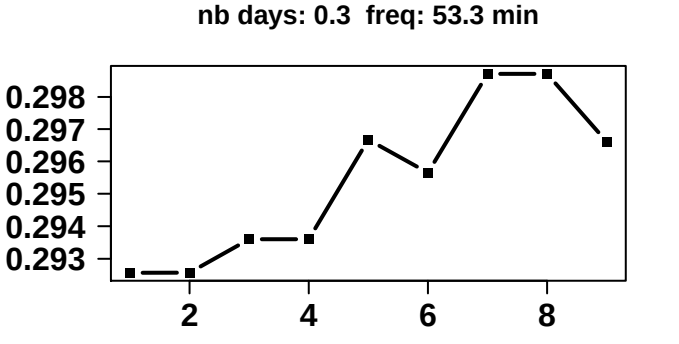

2013−11−28 00:20:54 2013−11−28 08:20:56
430
420
410
400
390
380
370
0
10
20
30
40
50
60
70
Pressure in

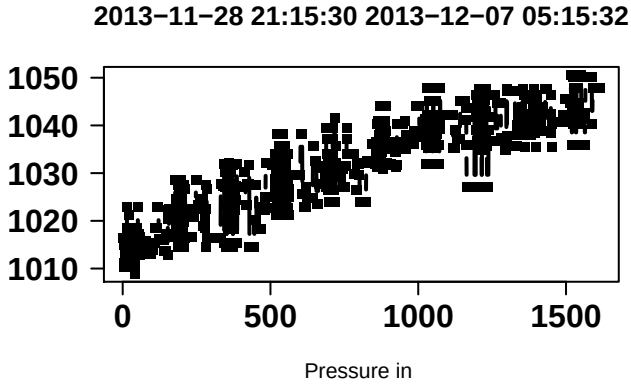

black 0.14 red 0.38
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
26.80
26.78
28.6
28.4
2
4
6
8

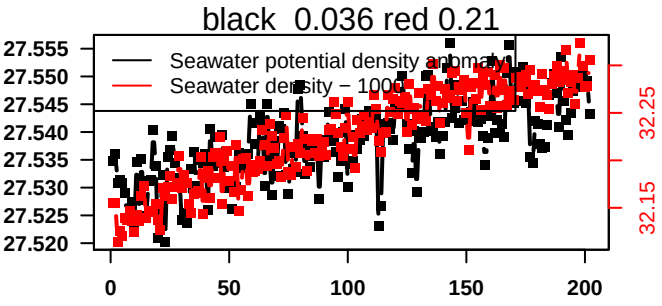

lovbio010b_043_03_06.txt
64
62
60
58
56
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

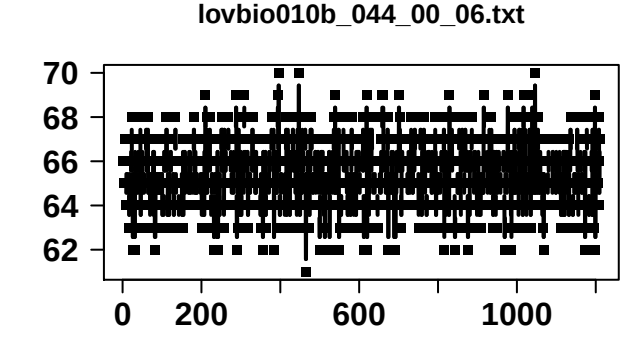

54
53
52
51
50
0
10
20
30
40
50
chl, [CN] / Points @ x s

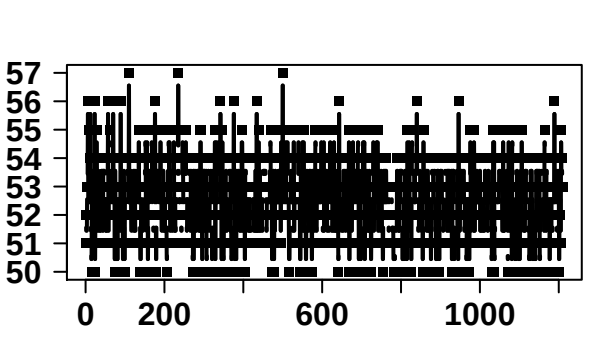

nb days: 0.3 freq: 9.4 min
220
200
180
160
140
120
100
0
10
20
30
40
50
beta, [CN] / Points @ x s

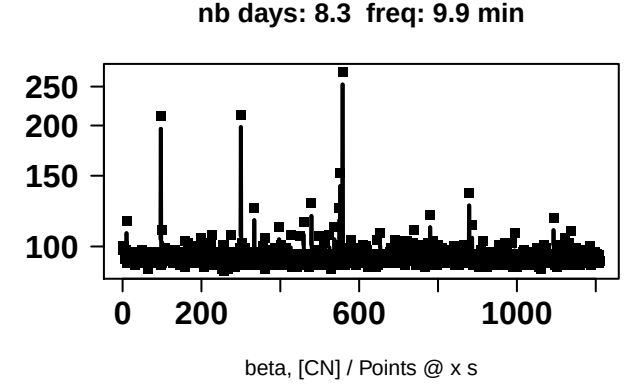

nb days: 0.3 freq: 53.3 min
0.298
0.297
0.296
0.295
0.294
0.293
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

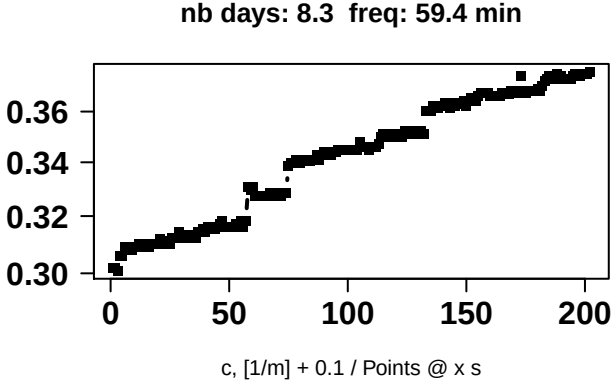

2013−11−28 21:15:30 2013−12−07 05:15:32
1050
1040
1030
1020
1010
0
500
1000
1500
Pressure in

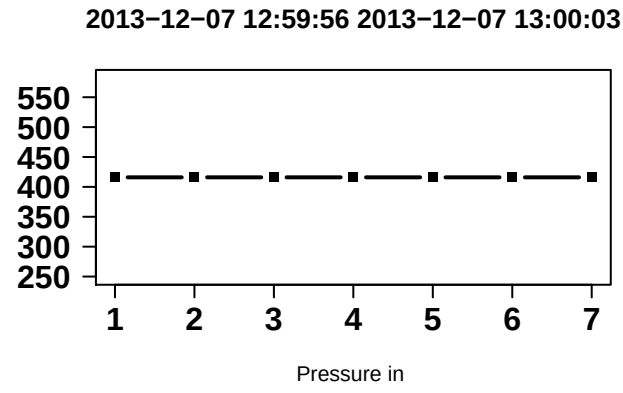

black 0.036 red 0.21
Seawater potential density anomaly
Seawater density − 1000
27.555
27.550
27.545
27.540
27.535
27.530
27.525
27.520
32.25
32.15
0
50
100
150
200

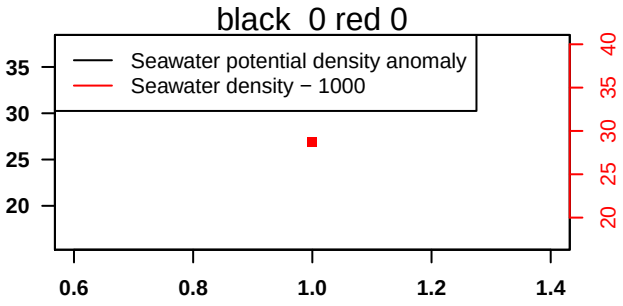

lovbio010b_044_00_06.txt
70
68
66
64
62
0
200
600
1000
CDOM, [CN] / Points @ x s

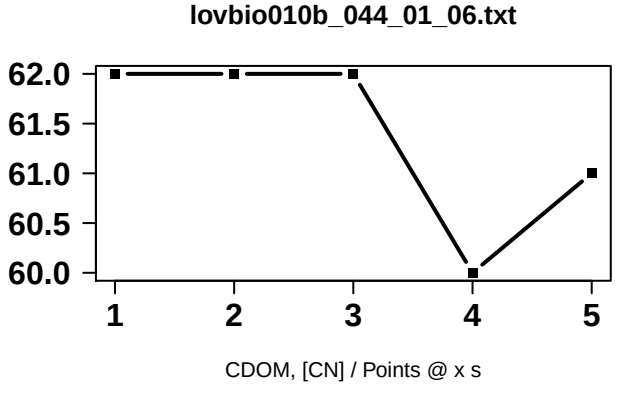

57
56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

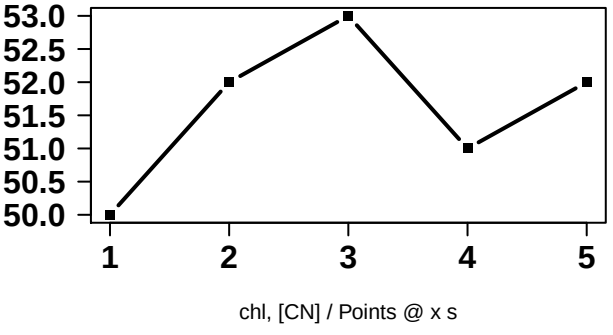

nb days: 8.3 freq: 9.9 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

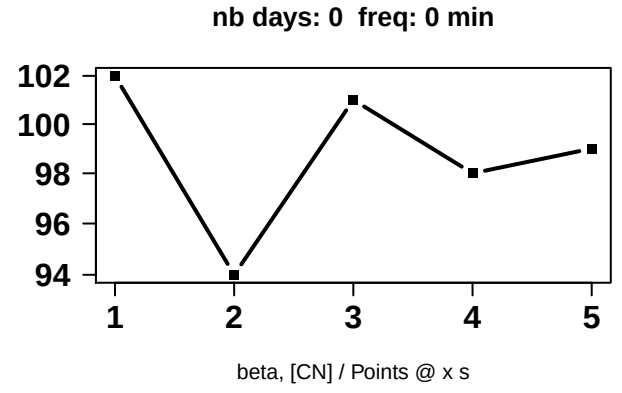

nb days: 8.3 freq: 59.4 min
0.36
0.34
0.32
0.30
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

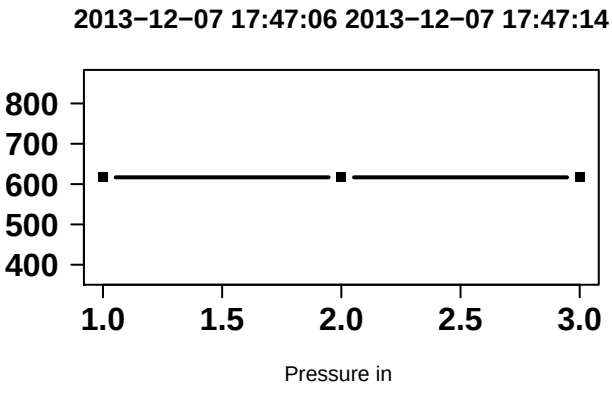

2013−12−07 12:59:56 2013−12−07 13:00:03
550
500
450
400
350
300
250
1
2
3
4
5
6
7
Pressure in

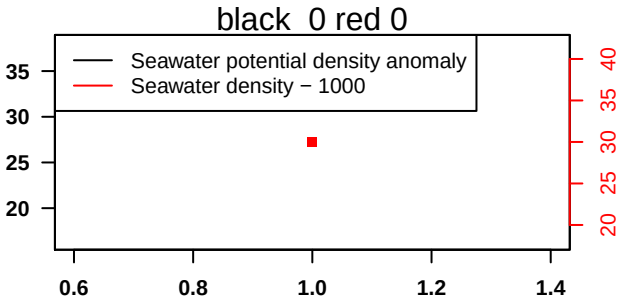

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

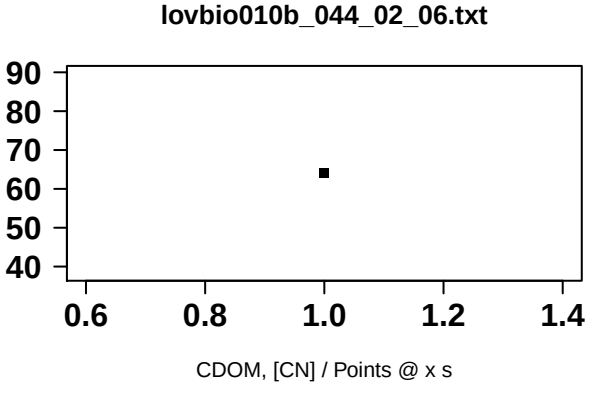

lovbio010b_044_01_06.txt
62.0
61.5
61.0
60.5
60.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

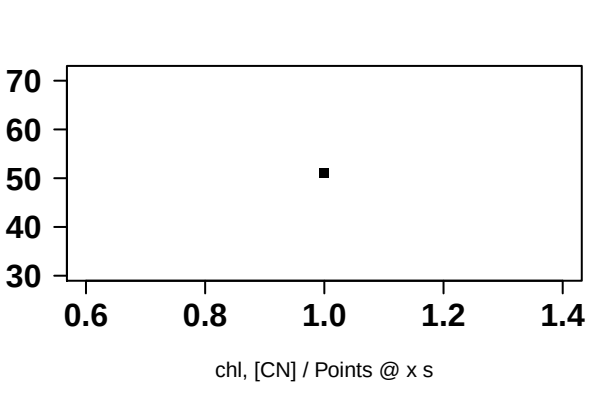

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
chl, [CN] / Points @ x s

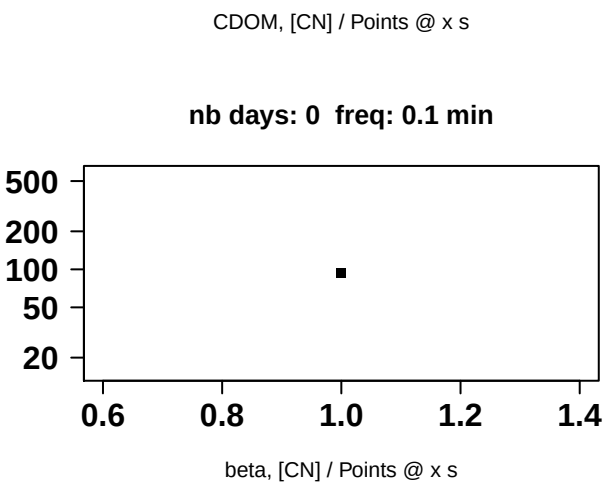

nb days: 0 freq: 0 min
102
100
98
96
94
1
2
3
4
5
beta, [CN] / Points @ x s

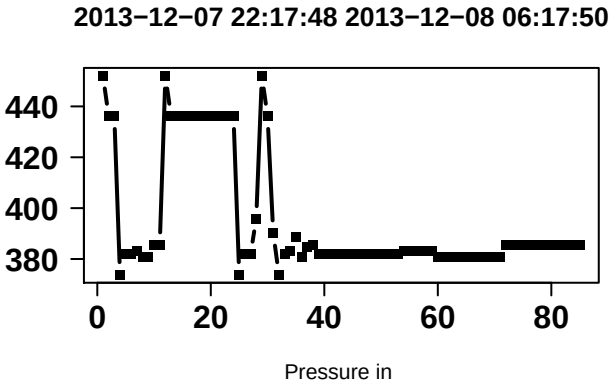

2013−12−07 17:47:06 2013−12−07 17:47:14
800
700
600
500
400
1.0
1.5
2.0
2.5
3.0
Pressure in

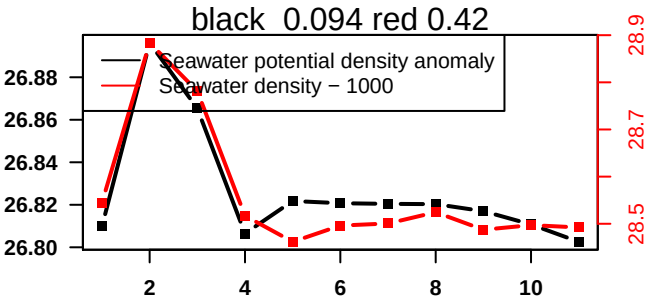

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

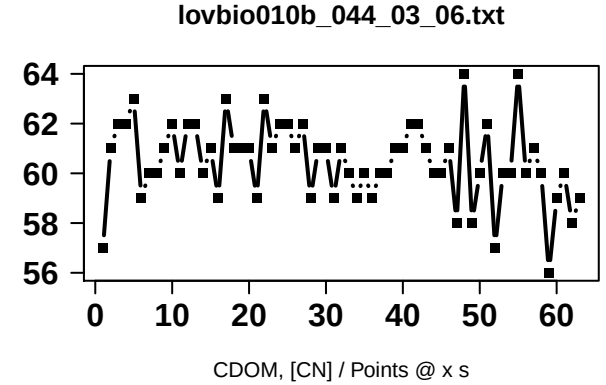

lovbio010b_044_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

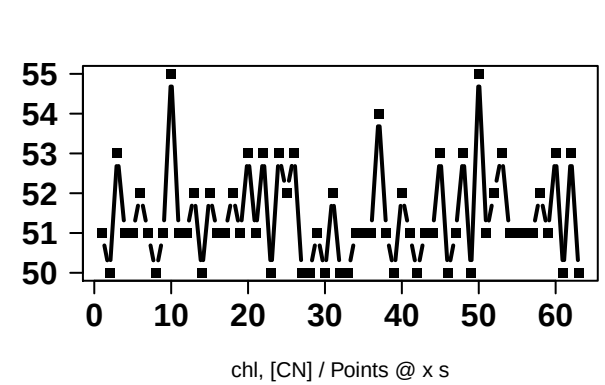

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

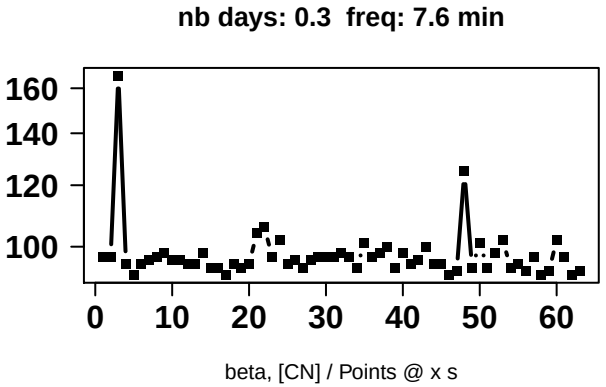

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

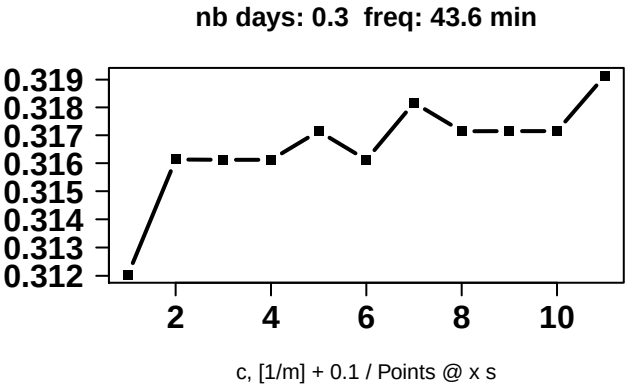

2013−12−07 22:17:48 2013−12−08 06:17:50
440
420
400
380
0
20
40
60
80
Pressure in

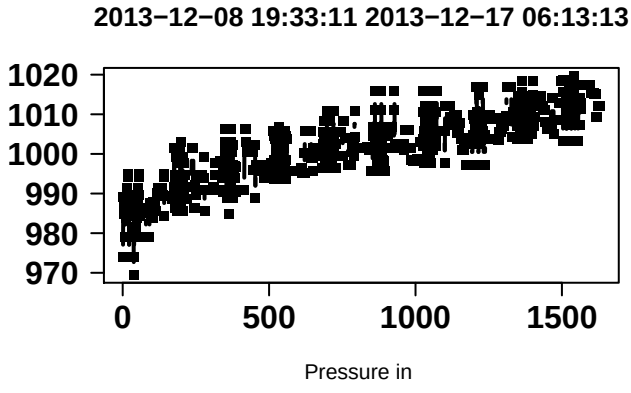

black 0.094 red 0.42
Seawater potential density anomaly
Seawater density − 1000
26.88
26.86
26.84
26.82
26.80
28.9
28.7
28.5
2
4
6
8
10

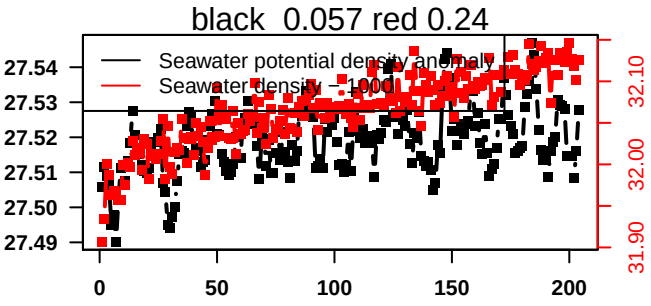

lovbio010b_044_03_06.txt
64
62
60
58
56
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

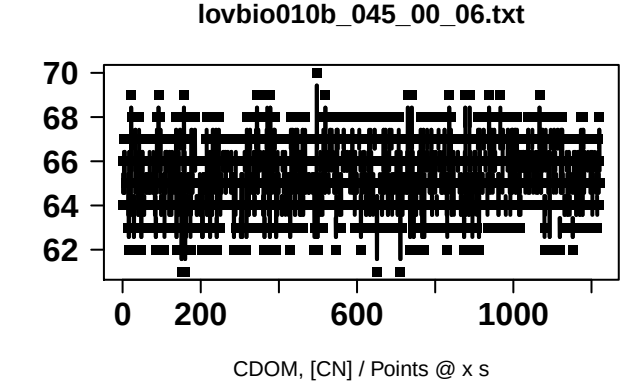

55
54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

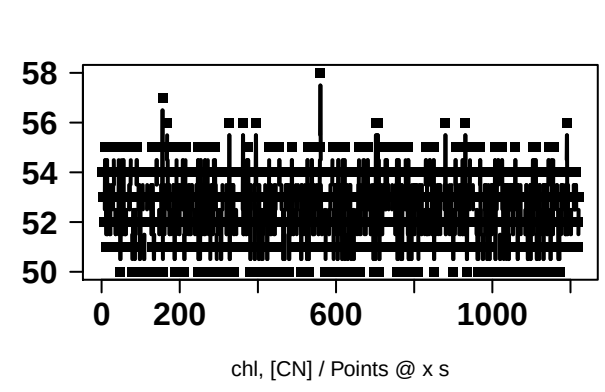

nb days: 0.3 freq: 7.6 min
160
140
120
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

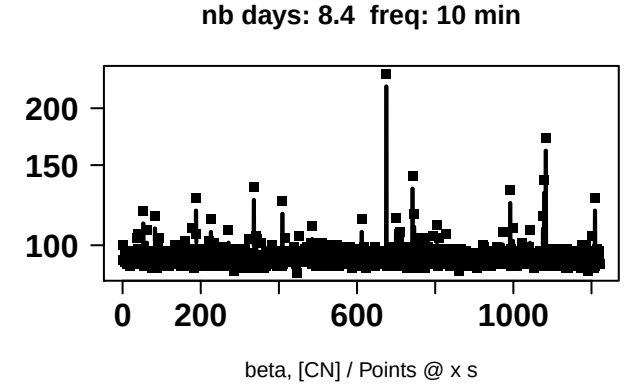

nb days: 0.3 freq: 43.6 min
0.319
0.318
0.317
0.316
0.315
0.314
0.313
0.312
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

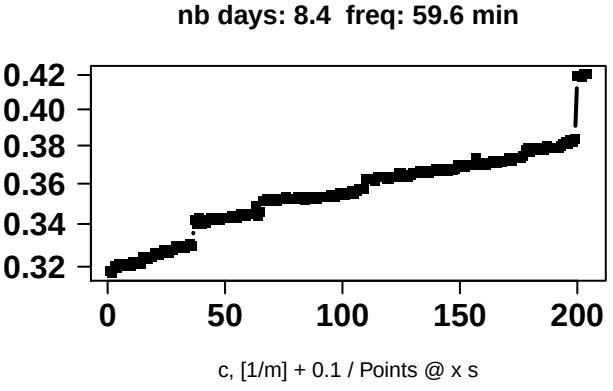

2013−12−08 19:33:11 2013−12−17 06:13:13
1020
1010
1000
990
980
970
0
500
1000
1500
Pressure in

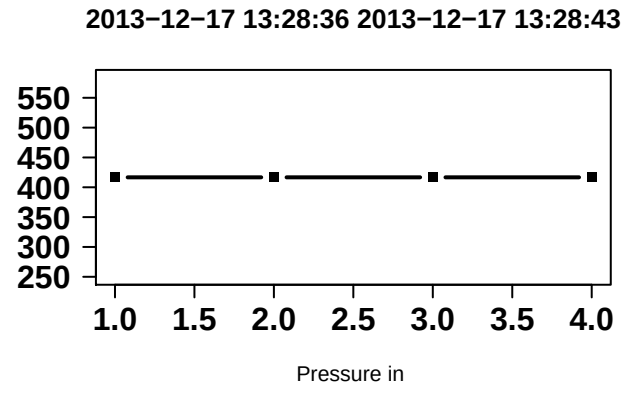

black 0.057 red 0.24
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
27.49
32.10
32.00
31.90
0
50
100
150
200

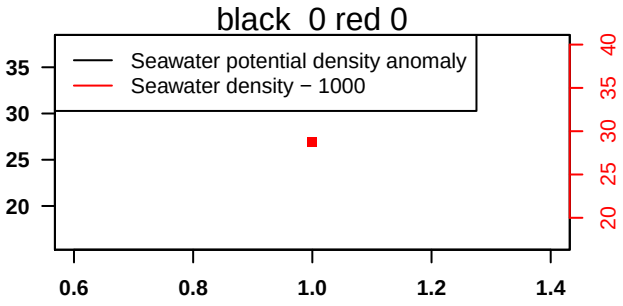

lovbio010b_045_00_06.txt
70
68
66
64
62
0
200
600
1000
CDOM, [CN] / Points @ x s

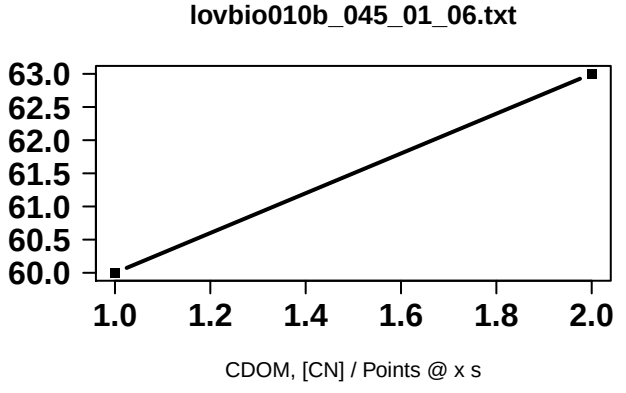

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

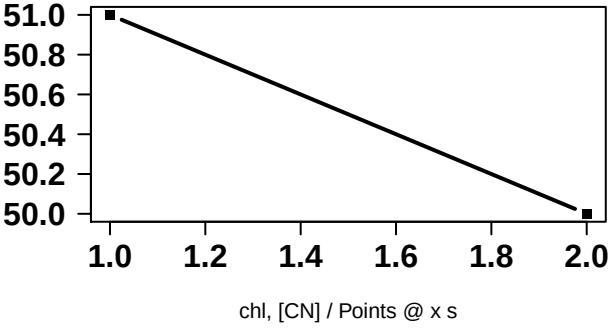

nb days: 8.4 freq: 10 min
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

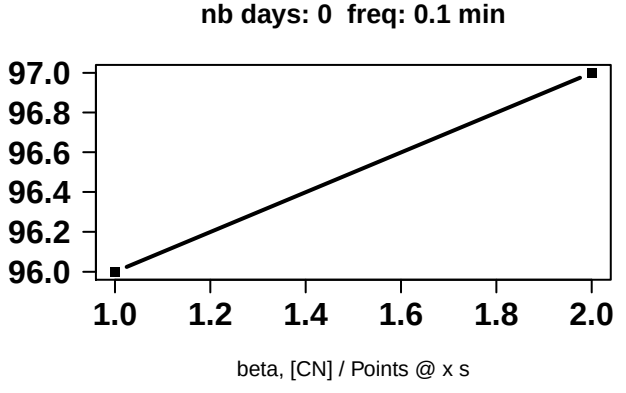

nb days: 8.4 freq: 59.6 min
0.42
0.40
0.38
0.36
0.34
0.32
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

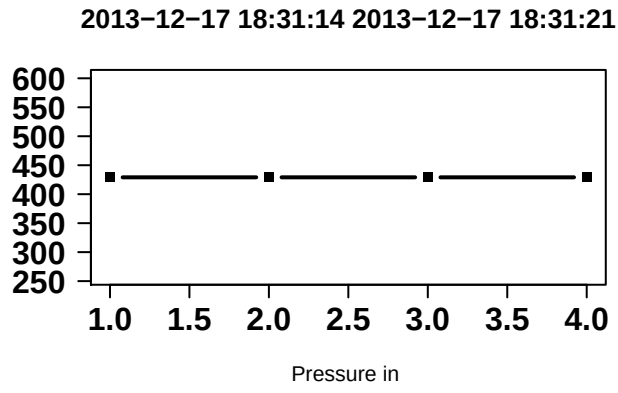

2013−12−17 13:28:36 2013−12−17 13:28:43
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

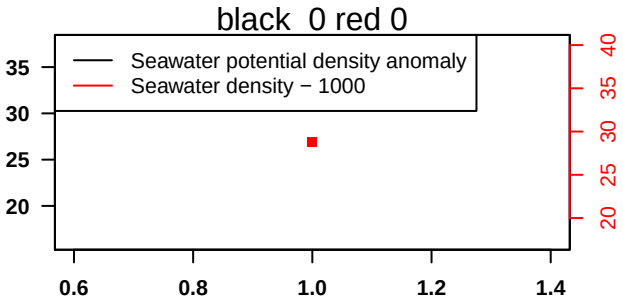

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

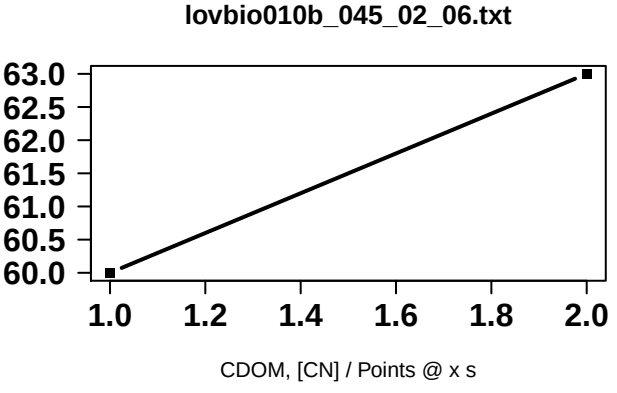

lovbio010b_045_01_06.txt
63.0
62.5
62.0
61.5
61.0
60.5
60.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

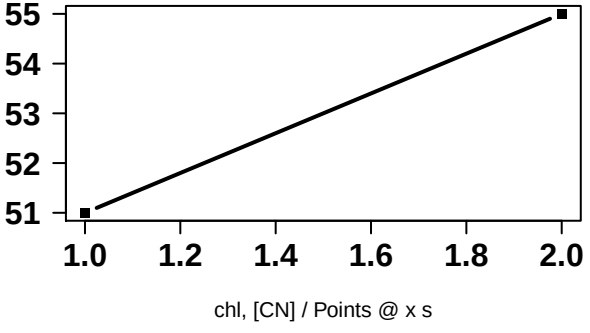

51.0
50.8
50.6
50.4
50.2
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

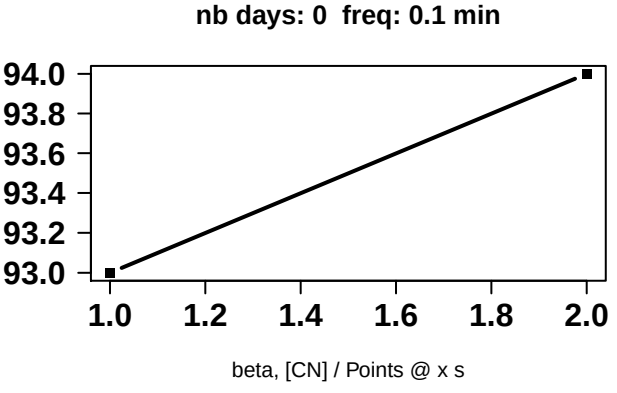

nb days: 0 freq: 0.1 min
97.0
96.8
96.6
96.4
96.2
96.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

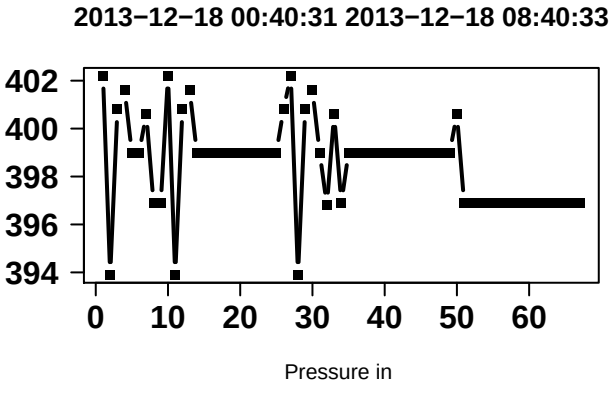

2013−12−17 18:31:14 2013−12−17 18:31:21
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

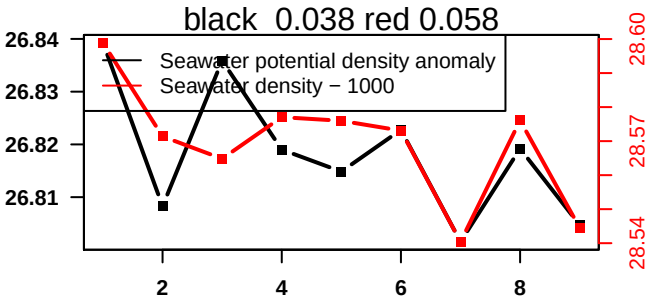

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

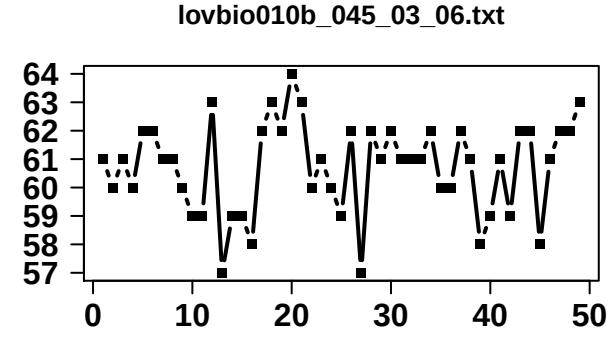

lovbio010b_045_02_06.txt
63.0
62.5
62.0
61.5
61.0
60.5
60.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

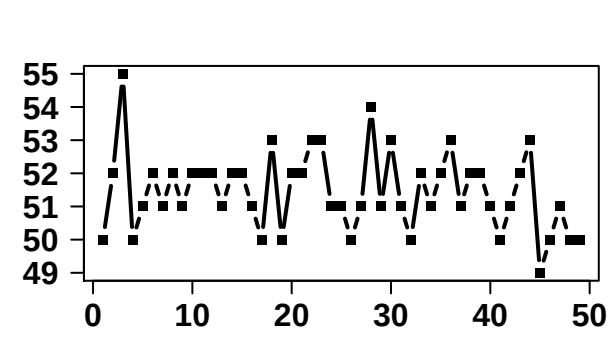

55
54
53
52
51
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

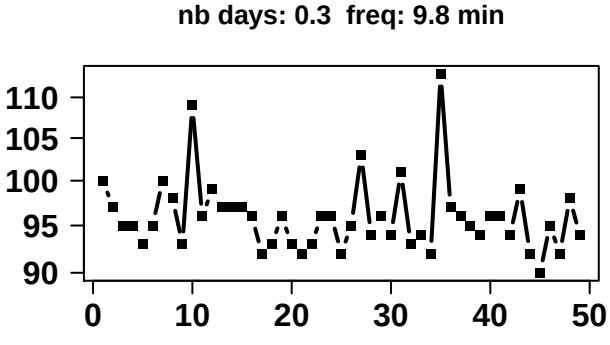

nb days: 0 freq: 0.1 min
94.0
93.8
93.6
93.4
93.2
93.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

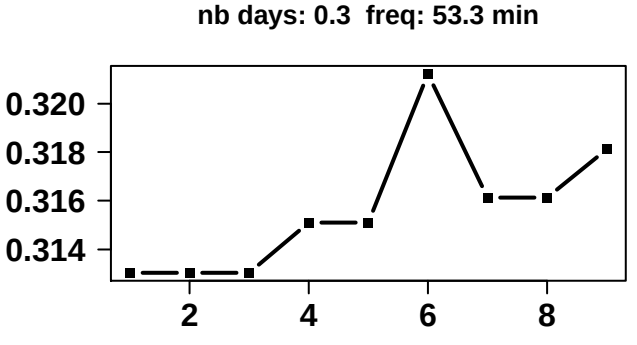

2013−12−18 00:40:31 2013−12−18 08:40:33
402
400
398
396
394
0
10
20
30
40
50
60
Pressure in

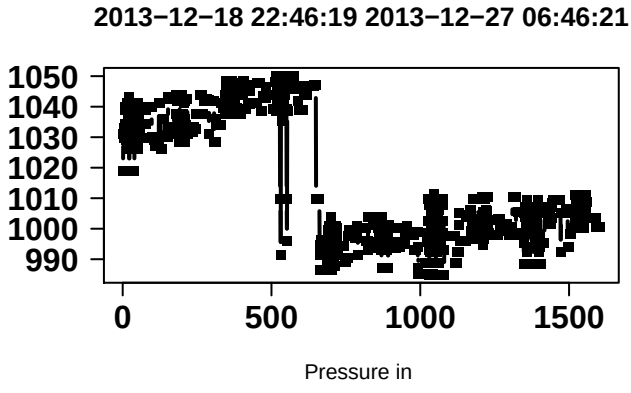

black 0.038 red 0.058
Seawater potential density anomaly
Seawater density − 1000
26.84
26.83
26.82
26.81
28.60
28.57
28.54
2
4
6
8

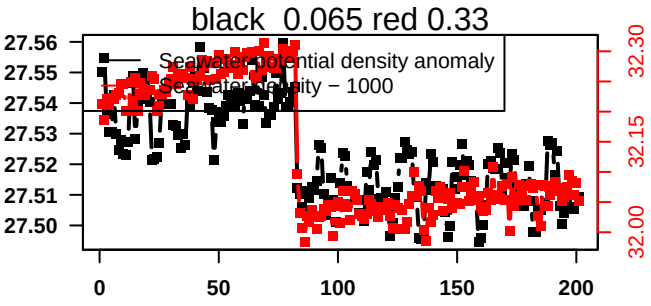

lovbio010b_045_03_06.txt
64
63
62
61
60
59
58
57
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

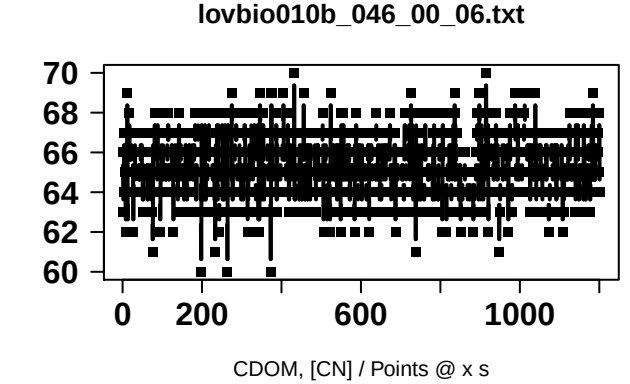

55
54
53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

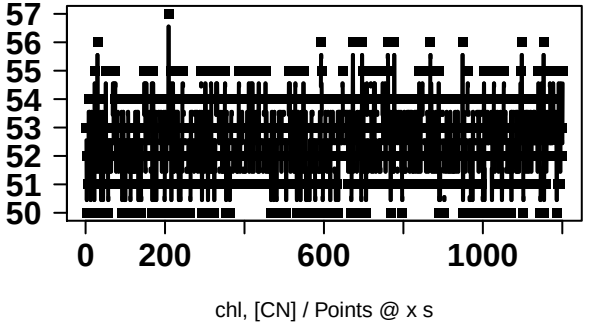

nb days: 0.3 freq: 9.8 min
110
105
100
95
90
0
10
20
30
40
50
beta, [CN] / Points @ x s

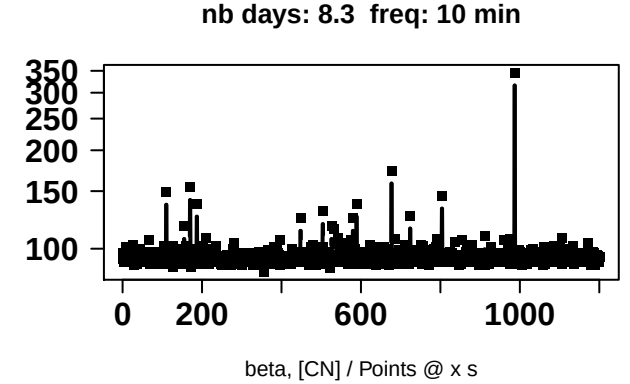

nb days: 0.3 freq: 53.3 min
0.320
0.318
0.316
0.314
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

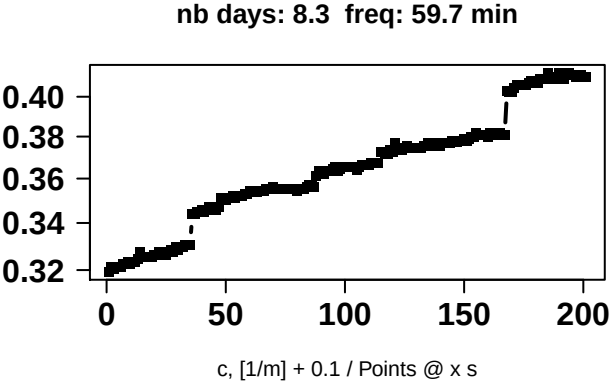

2013−12−18 22:46:19 2013−12−27 06:46:21
1050
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

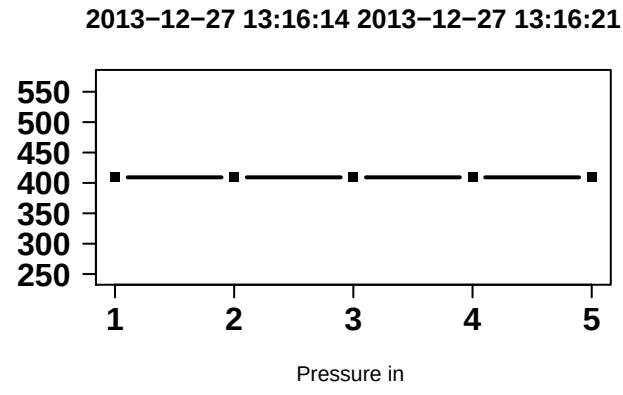

black 0.065 red 0.33
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
27.51
27.50
32.30
32.15
32.00
0
50
100
150
200

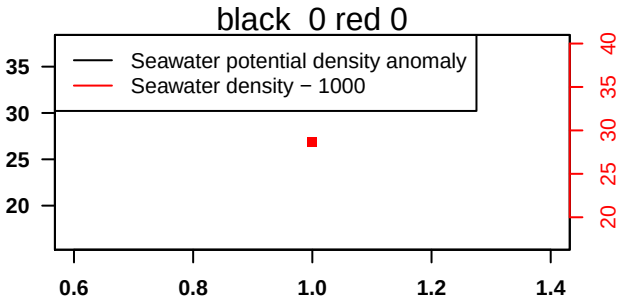

lovbio010b_046_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

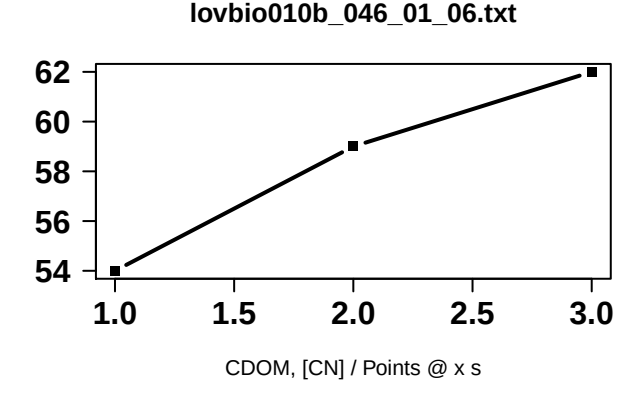

57
56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

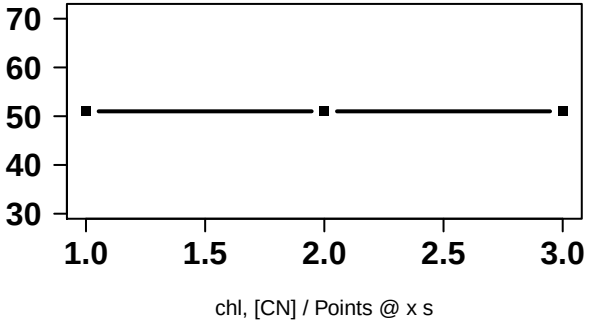

nb days: 8.3 freq: 10 min
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

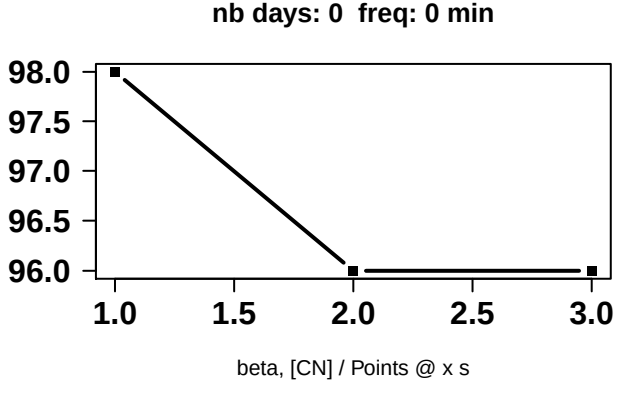

nb days: 8.3 freq: 59.7 min
0.40
0.38
0.36
0.34
0.32
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

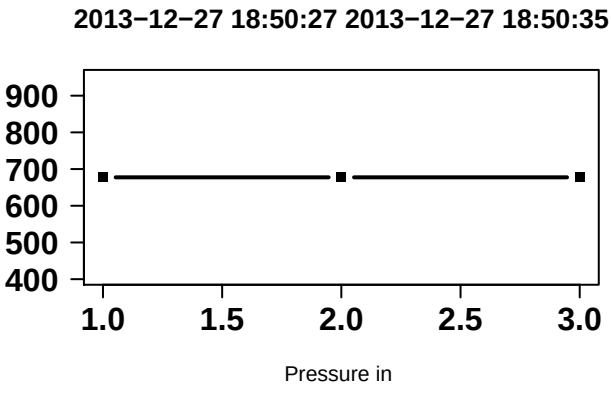

2013−12−27 13:16:14 2013−12−27 13:16:21
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

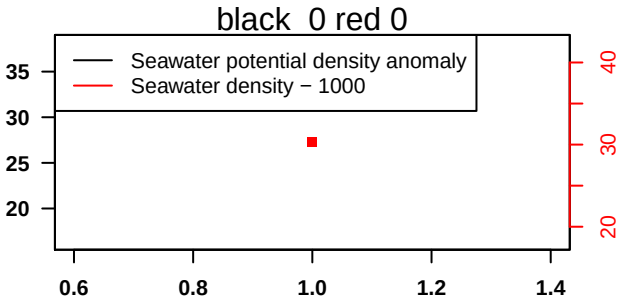

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

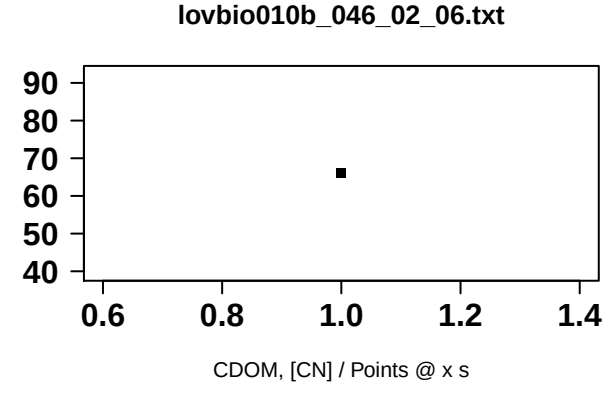

lovbio010b_046_01_06.txt
62
60
58
56
54
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

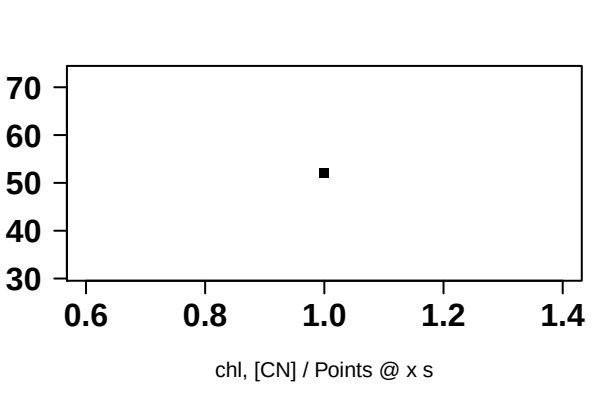

70
60
50
40
30
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

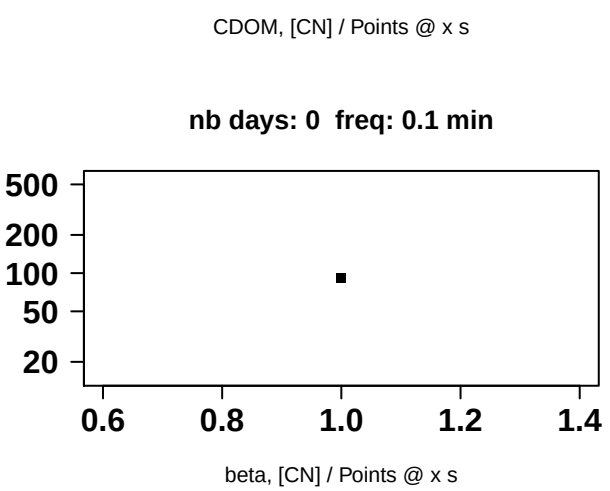

nb days: 0 freq: 0 min
98.0
97.5
97.0
96.5
96.0
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

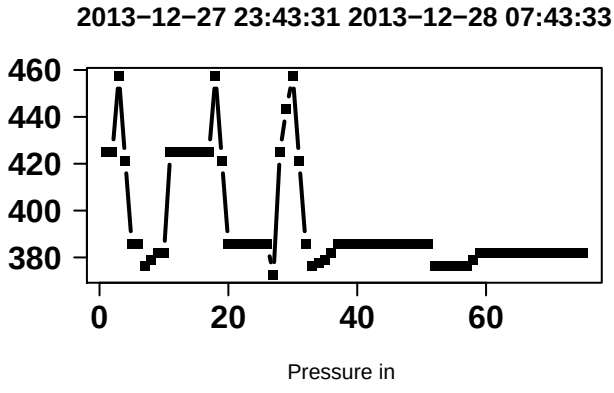

2013−12−27 18:50:27 2013−12−27 18:50:35
900
800
700
600
500
400
1.0
1.5
2.0
2.5
3.0
Pressure in

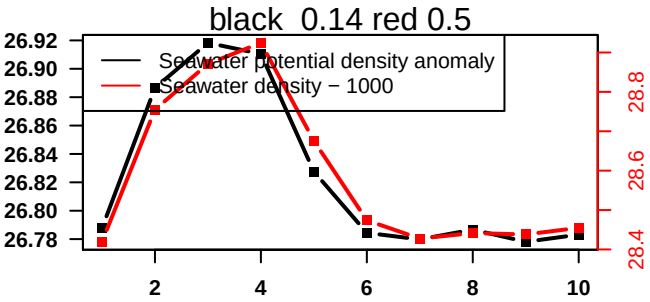

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

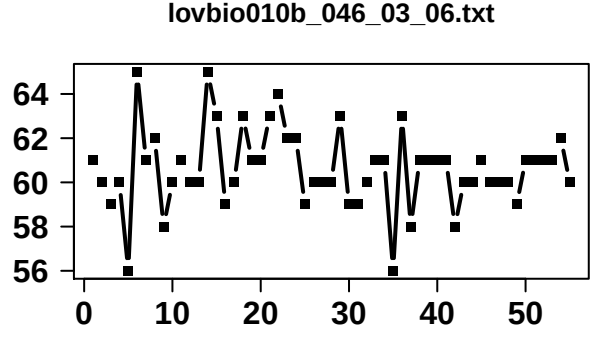

lovbio010b_046_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

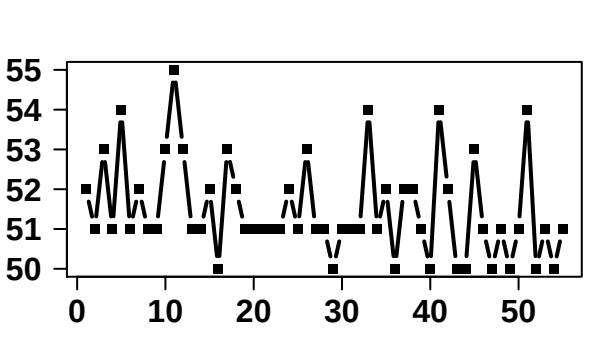

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

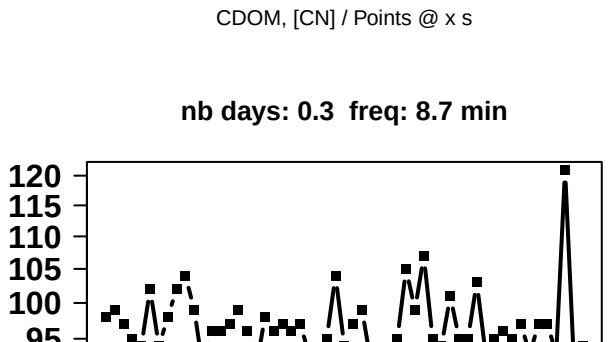

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

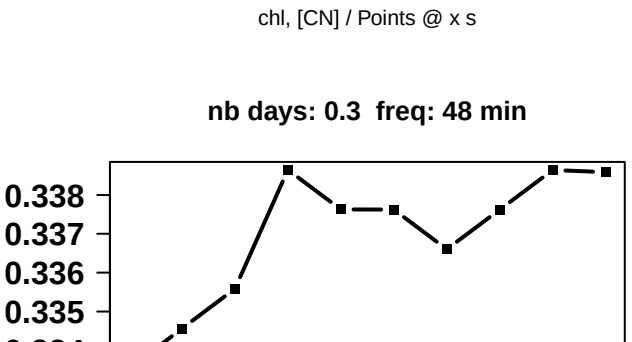

2013−12−27 23:43:31 2013−12−28 07:43:33
460
440
420
400
380
0
20
40
60
Pressure in

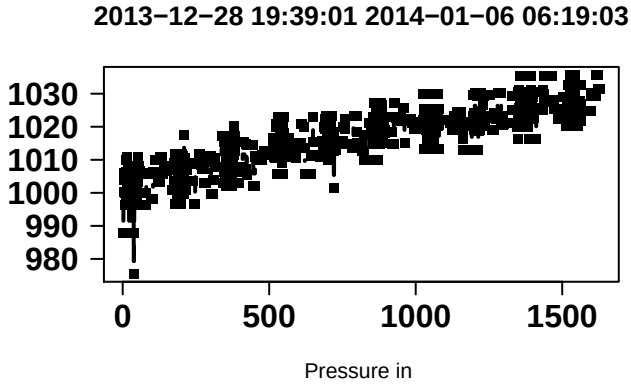

black 0.14 red 0.5
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
26.84
26.82
26.80
26.78
28.8
28.6
28.4
2
4
6
8
10

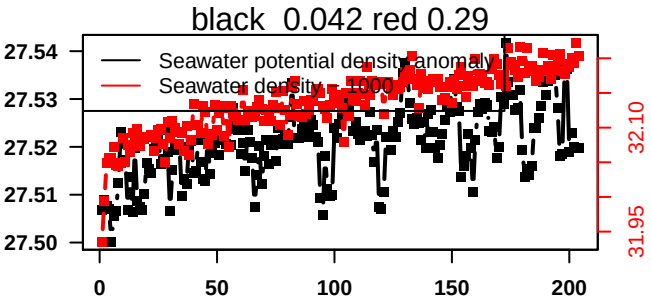

lovbio010b_046_03_06.txt
64
62
60
58
56
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

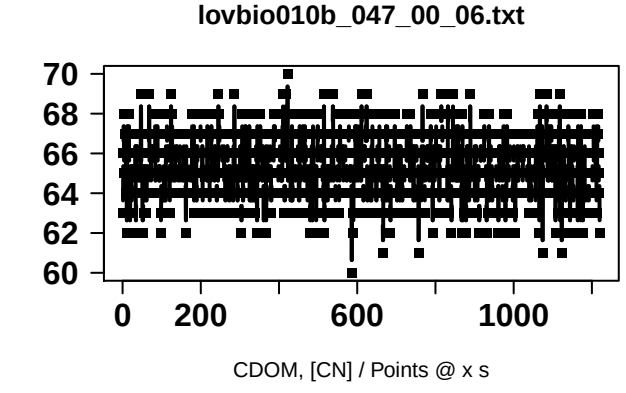

55
54
53
52
51
50
0
10
20
30
40
50
chl, [CN] / Points @ x s

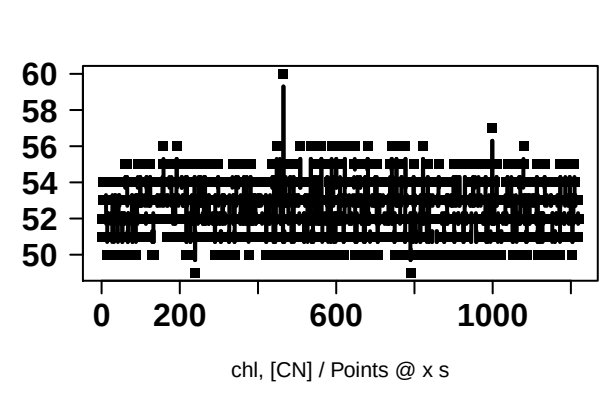

nb days: 0.3 freq: 8.7 min
120
115
110
105
100
95
90
0
10
20
30
40
50
beta, [CN] / Points @ x s

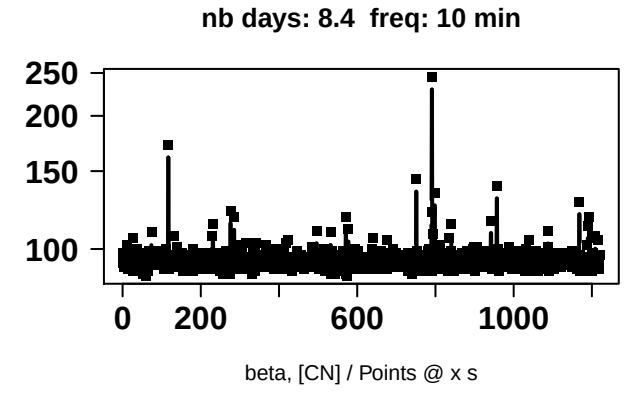

nb days: 0.3 freq: 48 min
0.338
0.337
0.336
0.335
0.334
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

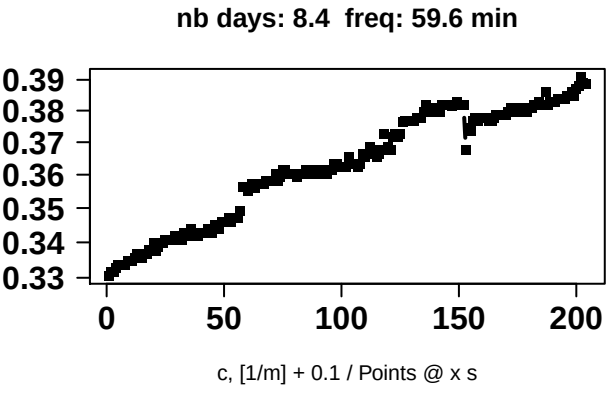

2013−12−28 19:39:01 2014−01−06 06:19:03
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

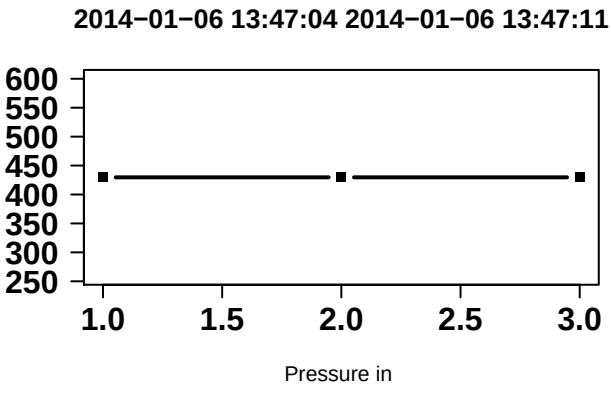

black 0.042 red 0.29
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.10
31.95
0
50
100
150
200

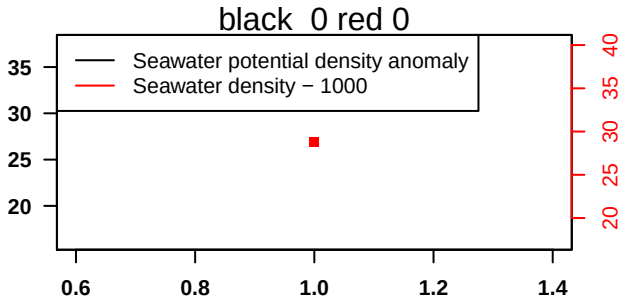

lovbio010b_047_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

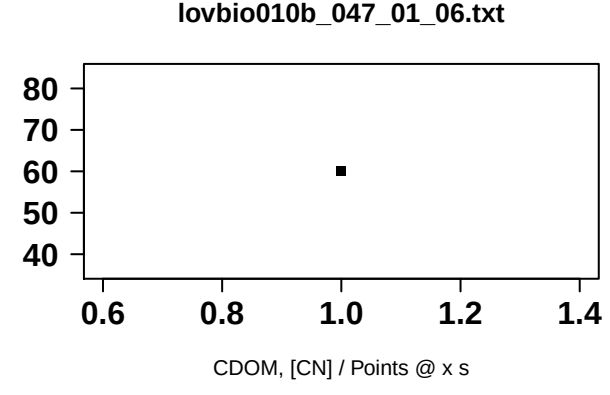

60
58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

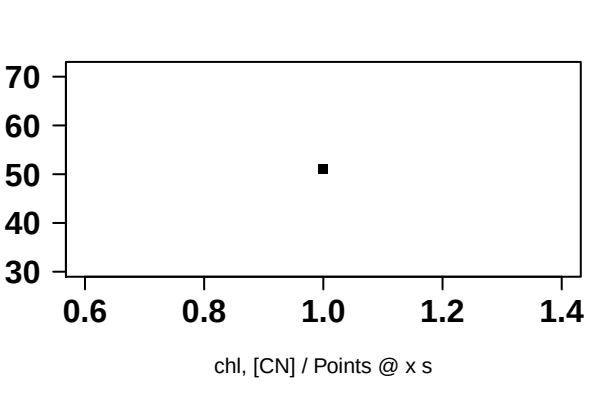

nb days: 8.4 freq: 10 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

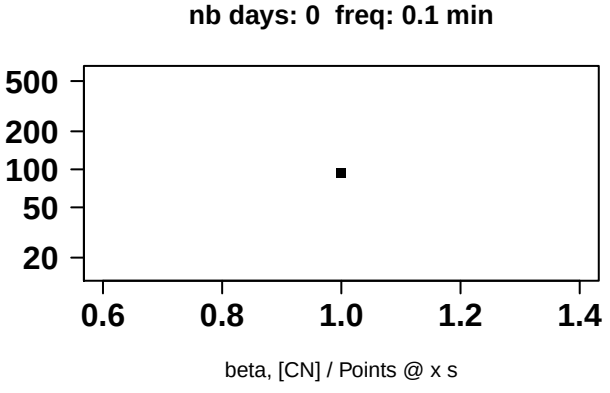

nb days: 8.4 freq: 59.6 min
0.39
0.38
0.37
0.36
0.35
0.34
0.33
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

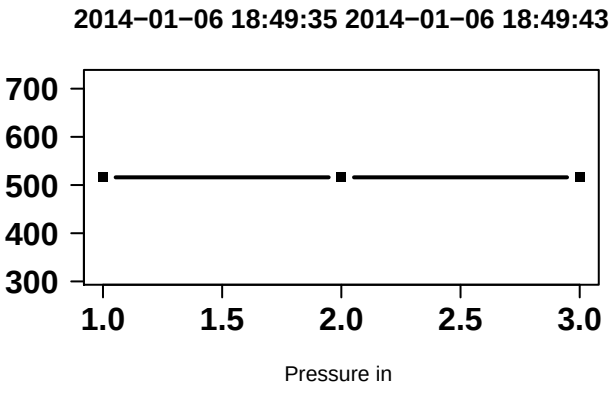

2014−01−06 13:47:04 2014−01−06 13:47:11
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

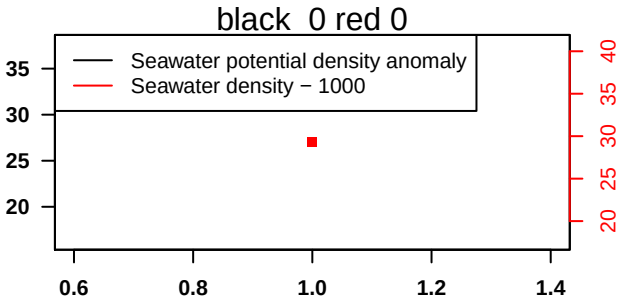

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

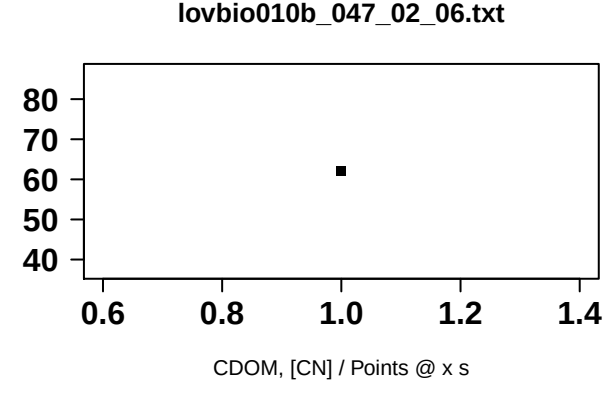

lovbio010b_047_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

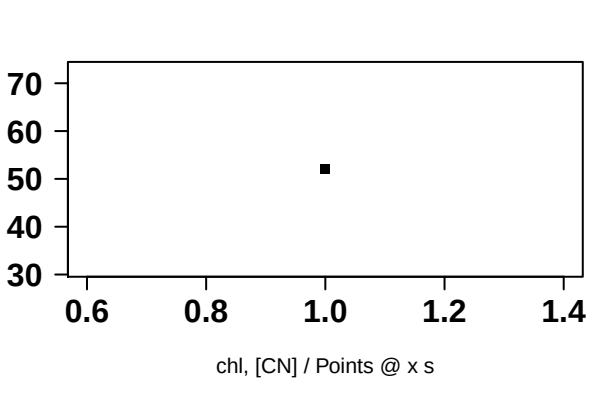

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

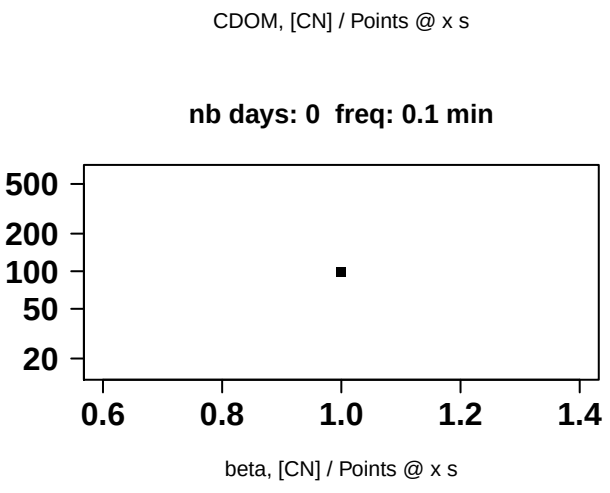

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

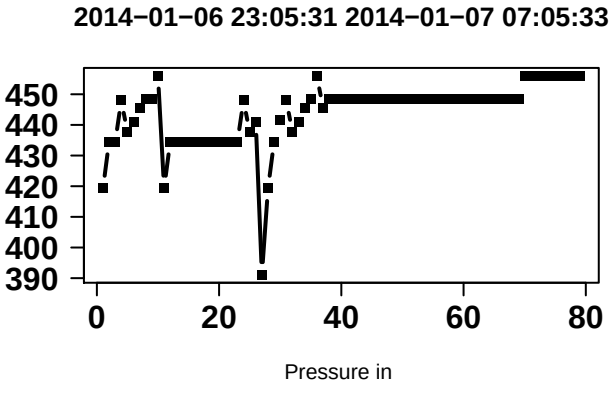

2014−01−06 18:49:35 2014−01−06 18:49:43
700
600
500
400
300
1.0
1.5
2.0
2.5
3.0
Pressure in

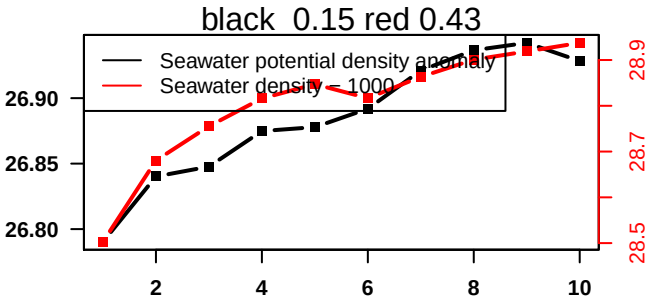

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

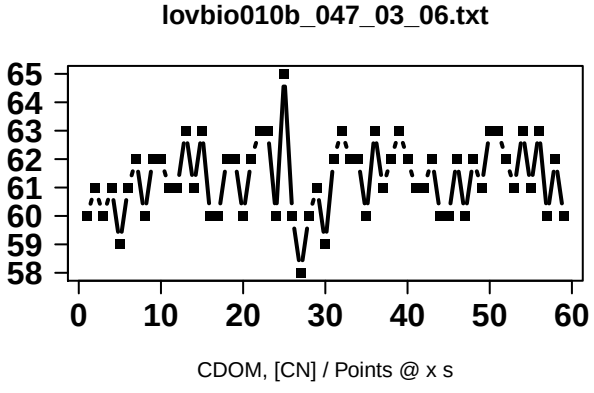

lovbio010b_047_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

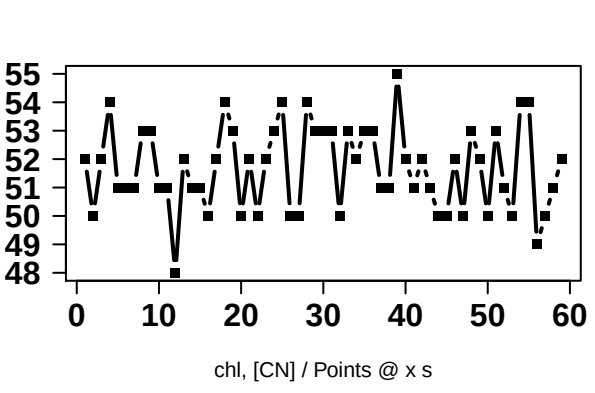

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

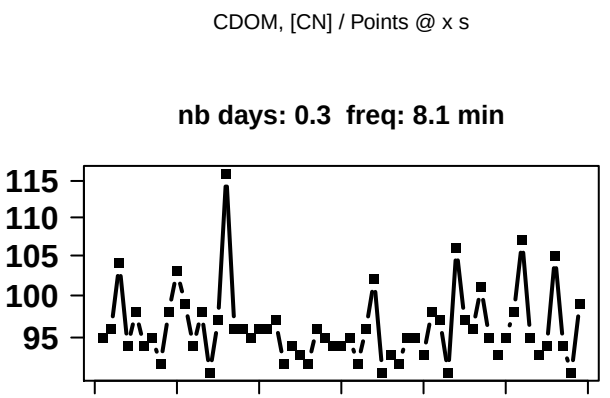

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

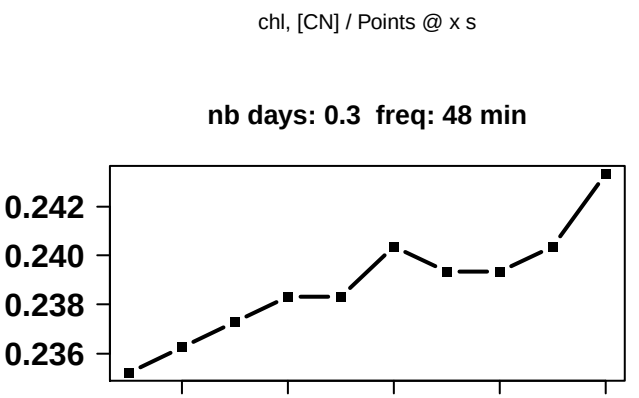

2014−01−06 23:05:31 2014−01−07 07:05:33
450
440
430
420
410
400
390
0
20
40
60
80
Pressure in

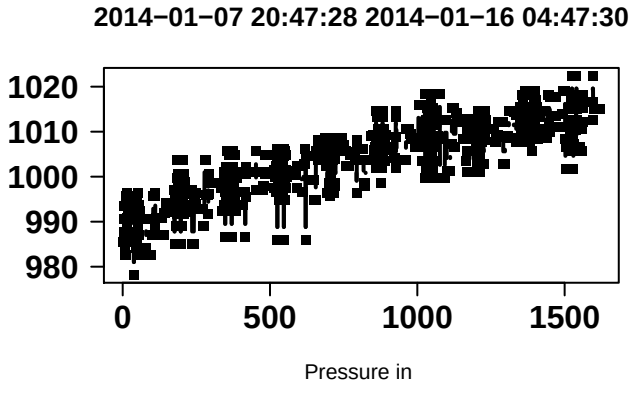

black 0.15 red 0.43
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
28.9
28.7
28.5
2
4
6
8
10

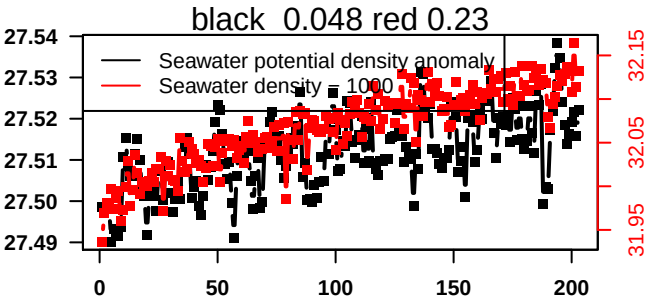

lovbio010b_047_03_06.txt
65
64
63
62
61
60
59
58
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

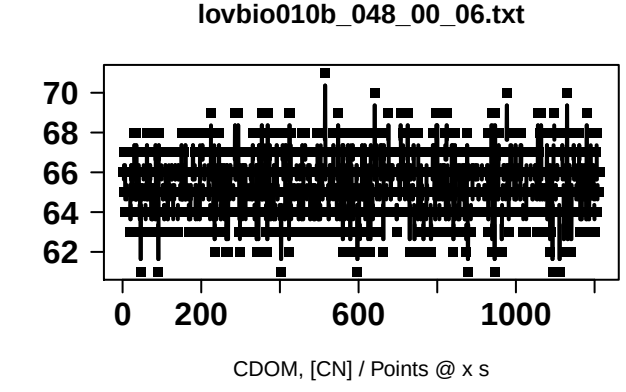

55
54
53
52
51
50
49
48
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

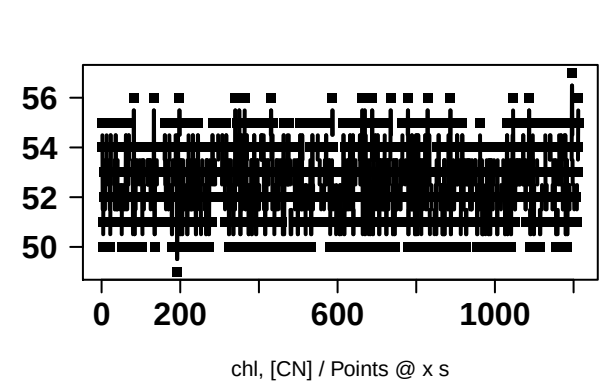

nb days: 0.3 freq: 8.1 min
115
110
105
100
95
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

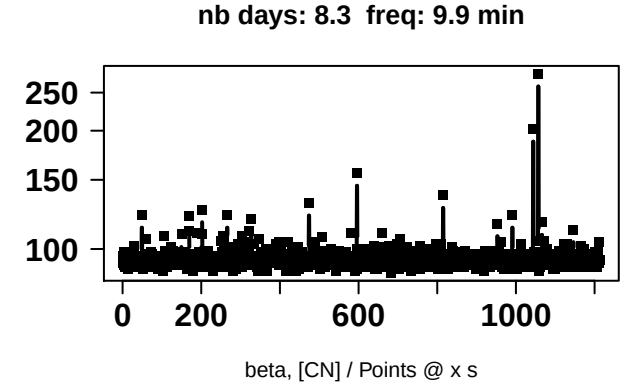

nb days: 0.3 freq: 48 min
0.242
0.240
0.238
0.236
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

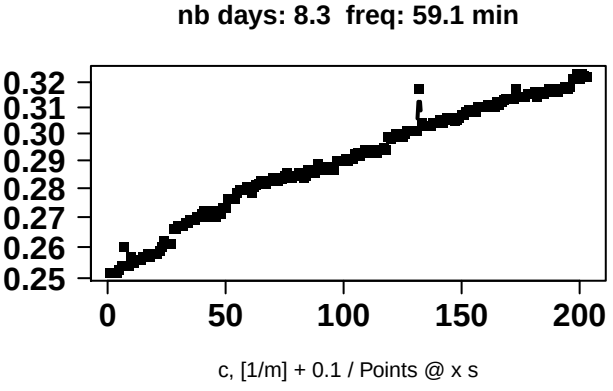

2014−01−07 20:47:28 2014−01−16 04:47:30
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

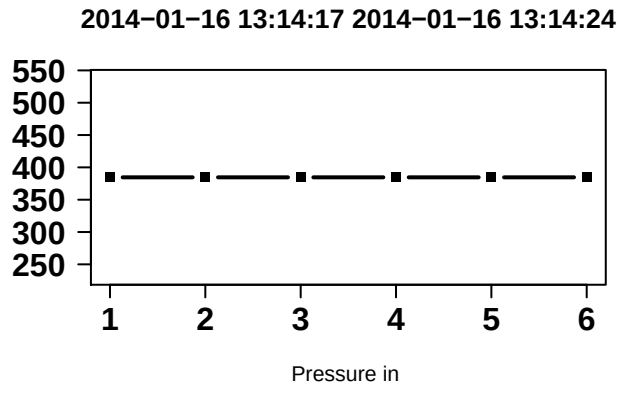

black 0.048 red 0.23
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
27.49
32.15
32.05
31.95
0
50
100
150
200

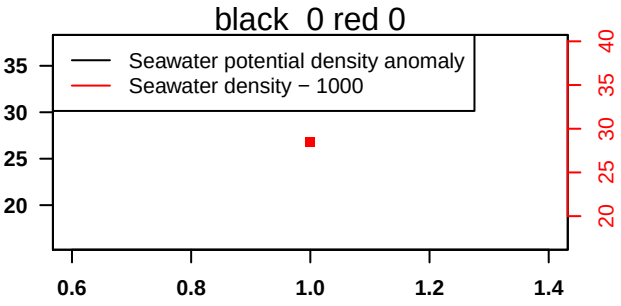

lovbio010b_048_00_06.txt
70
68
66
64
62
0
200
600
1000
CDOM, [CN] / Points @ x s

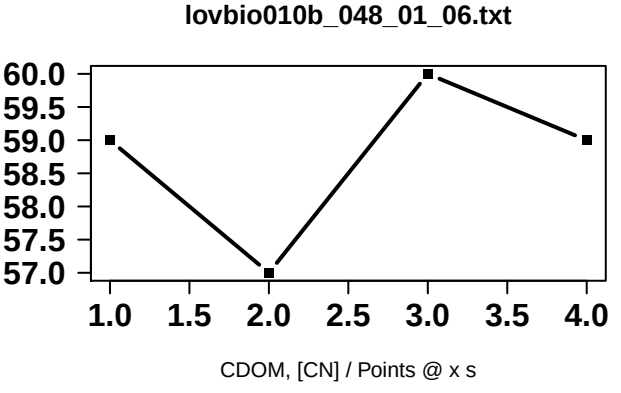

56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

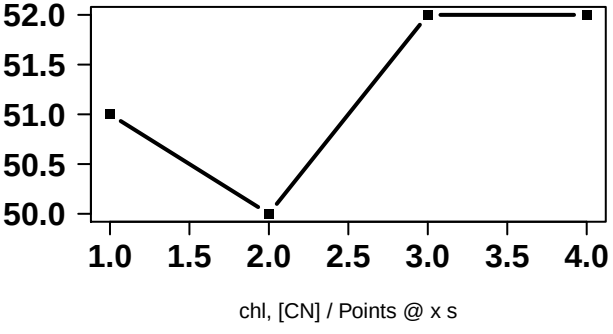

nb days: 8.3 freq: 9.9 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

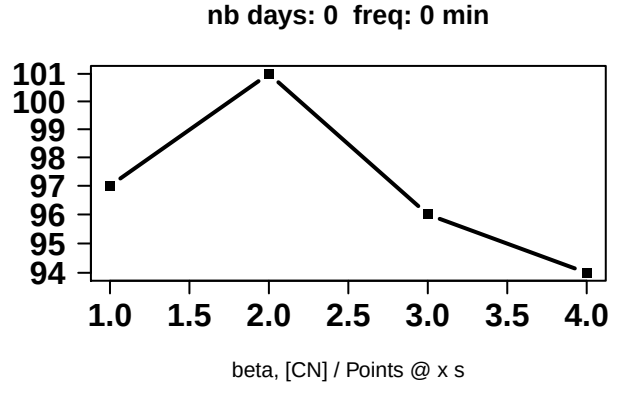

nb days: 8.3 freq: 59.1 min
0.32
0.31
0.30
0.29
0.28
0.27
0.26
0.25
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

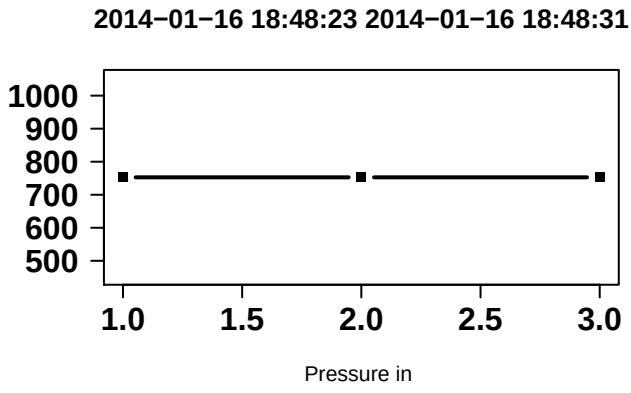

2014−01−16 13:14:17 2014−01−16 13:14:24
550
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

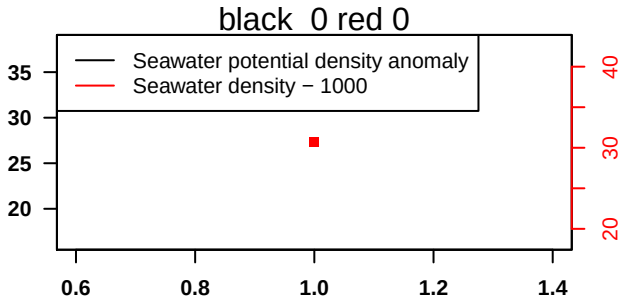

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

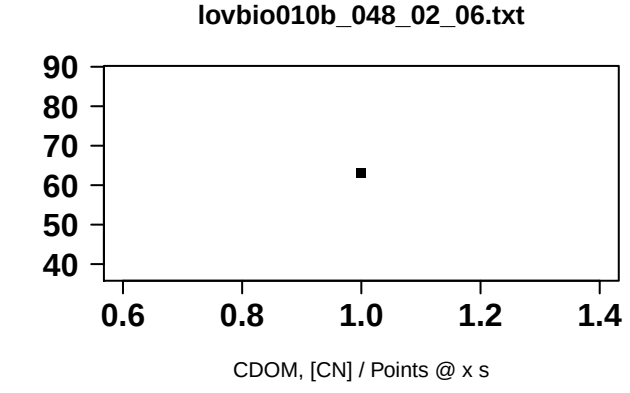

lovbio010b_048_01_06.txt
60.0
59.5
59.0
58.5
58.0
57.5
57.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

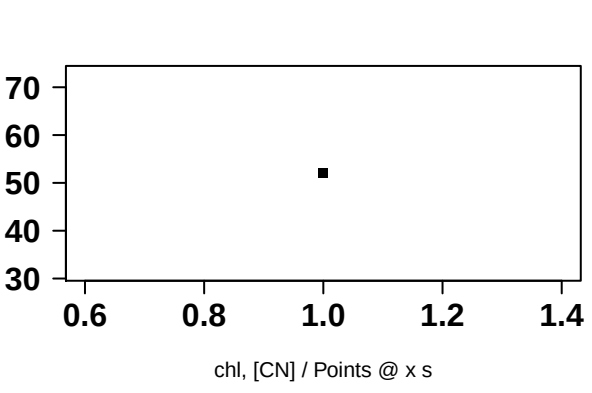

52.0
51.5
51.0
50.5
50.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

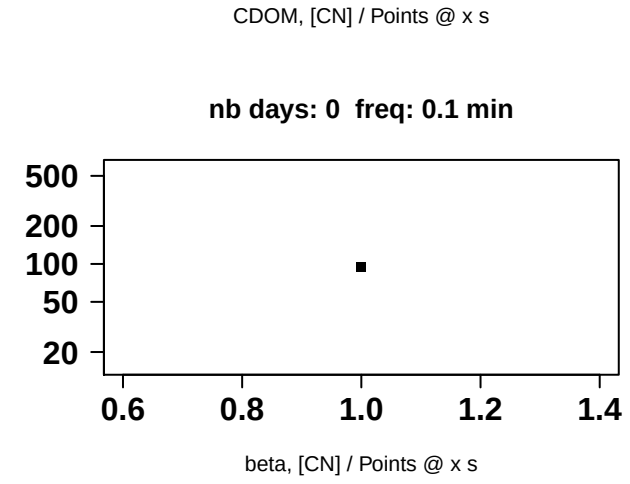

nb days: 0 freq: 0 min
101
100
99
98
97
96
95
94
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

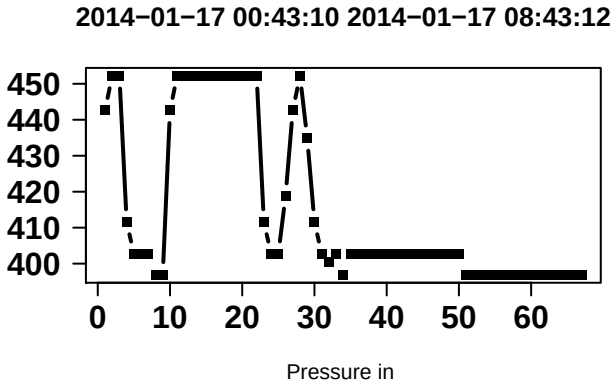

2014−01−16 18:48:23 2014−01−16 18:48:31
1000
900
800
700
600
500
1.0
1.5
2.0
2.5
3.0
Pressure in

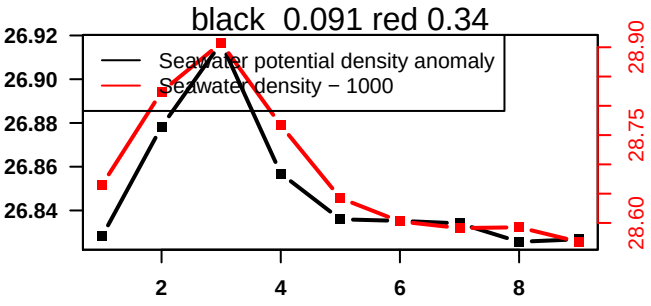

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
40
30
20
0.6
0.8
1.0
1.2
1.4

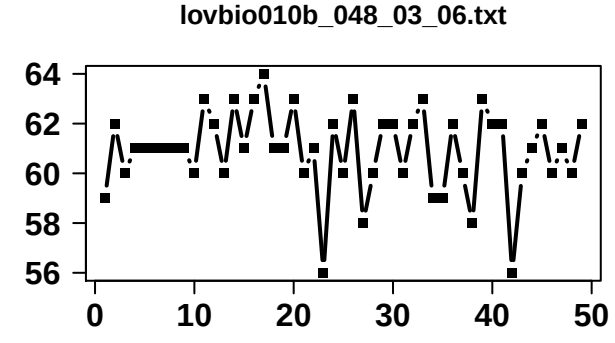

lovbio010b_048_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

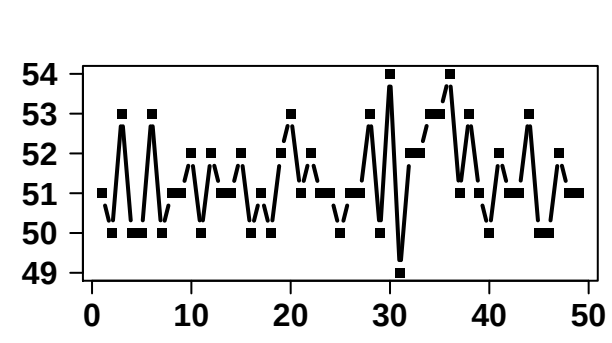

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

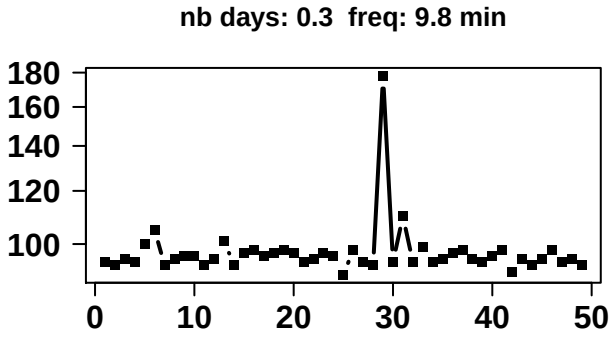

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

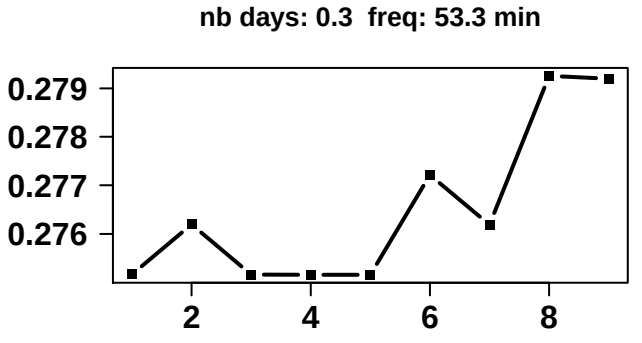

2014−01−17 00:43:10 2014−01−17 08:43:12
450
440
430
420
410
400
0
10
20
30
40
50
60
Pressure in

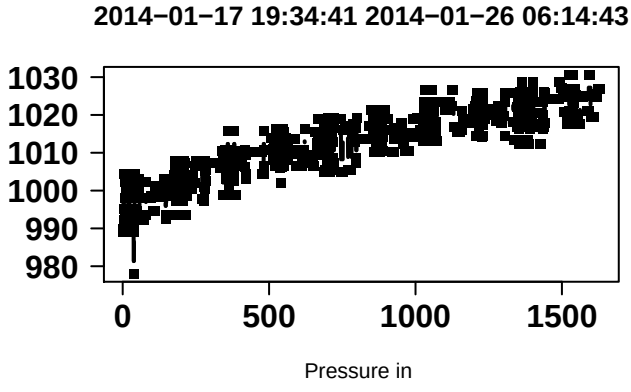

black 0.091 red 0.34
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
26.84
28.90
28.75
28.60
2
4
6
8

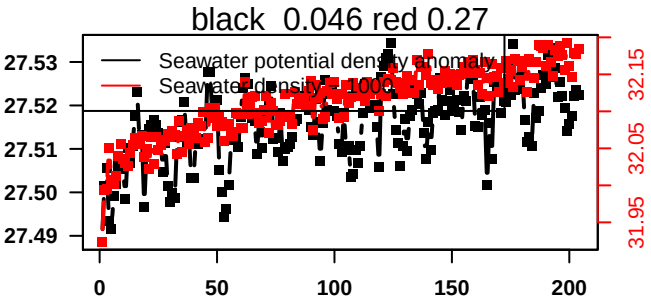

lovbio010b_048_03_06.txt
64
62
60
58
56
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

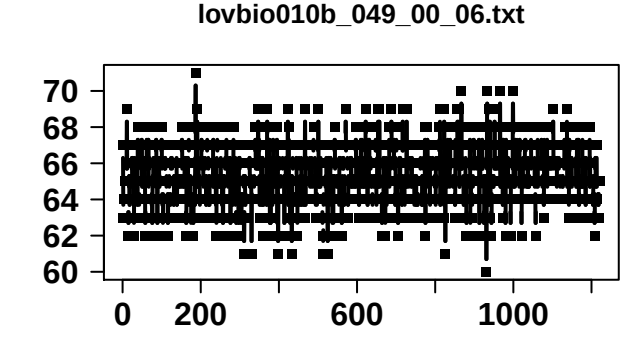

54
53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

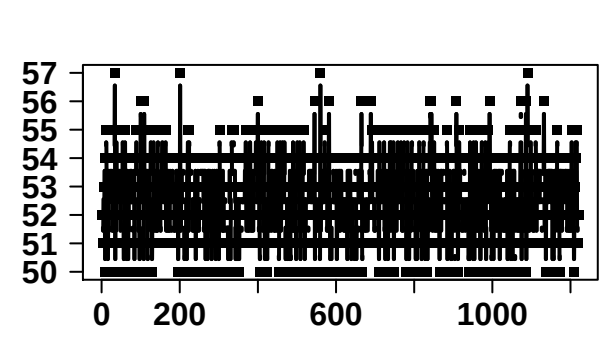

nb days: 0.3 freq: 9.8 min
180
160
140
120
100
0
10
20
30
40
50
beta, [CN] / Points @ x s

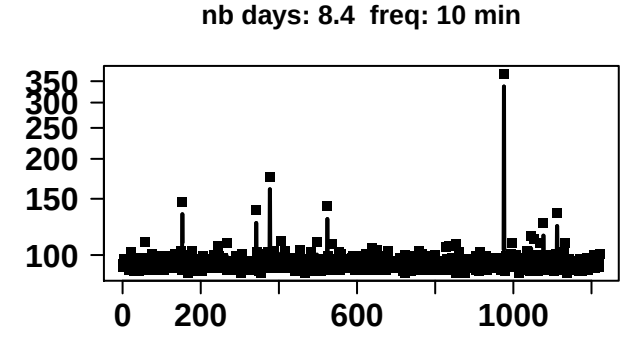

nb days: 0.3 freq: 53.3 min
0.279
0.278
0.277
0.276
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

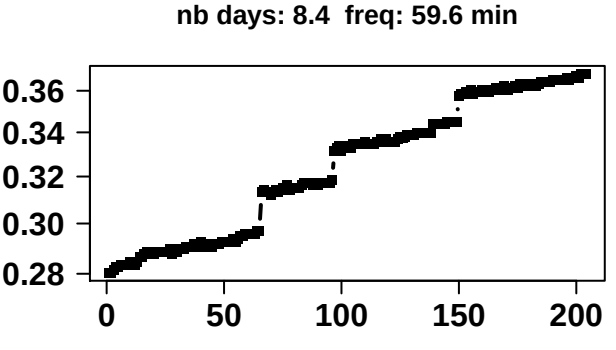

2014−01−17 19:34:41 2014−01−26 06:14:43
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

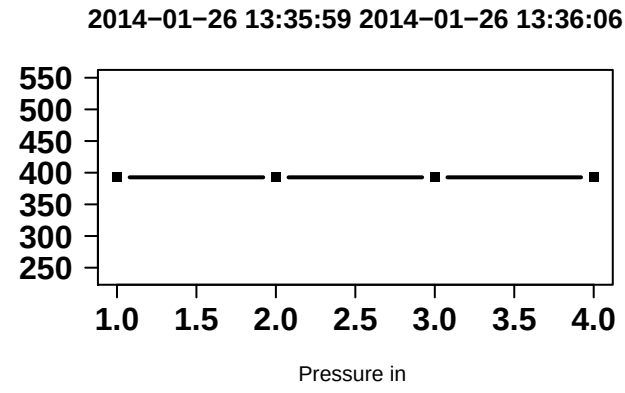

black 0.046 red 0.27
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
32.15
32.05
31.95
0
50
100
150
200

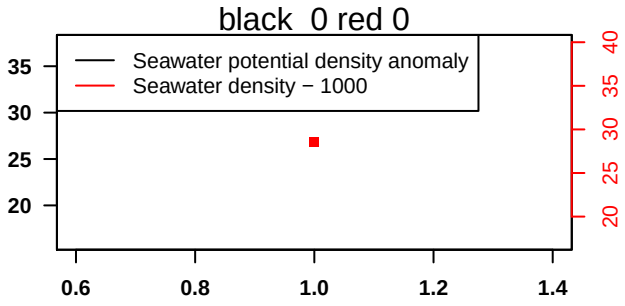

lovbio010b_049_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

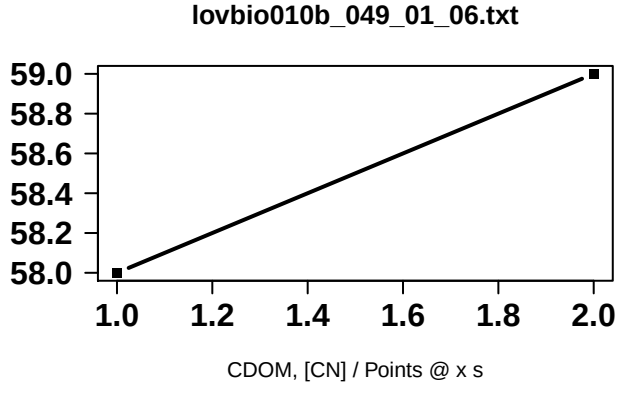

57
56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

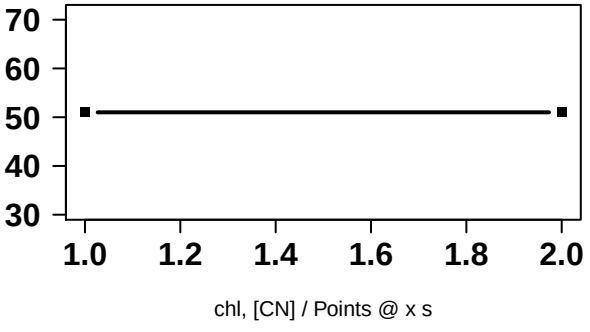

nb days: 8.4 freq: 10 min
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

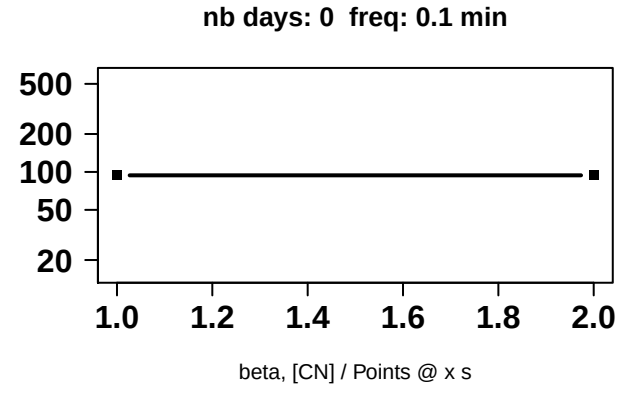

nb days: 8.4 freq: 59.6 min
0.36
0.34
0.32
0.30
0.28
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

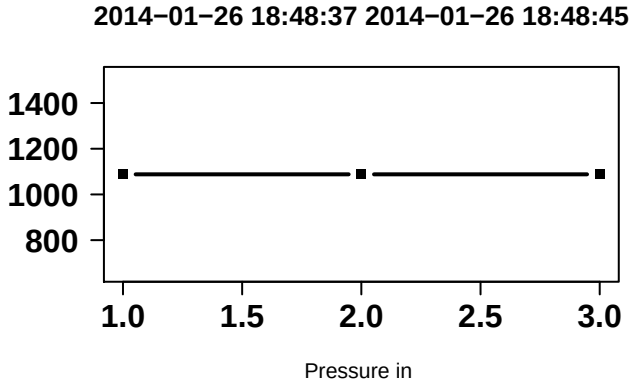

2014−01−26 13:35:59 2014−01−26 13:36:06
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

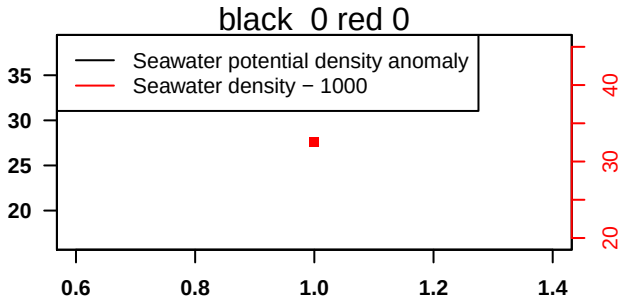

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

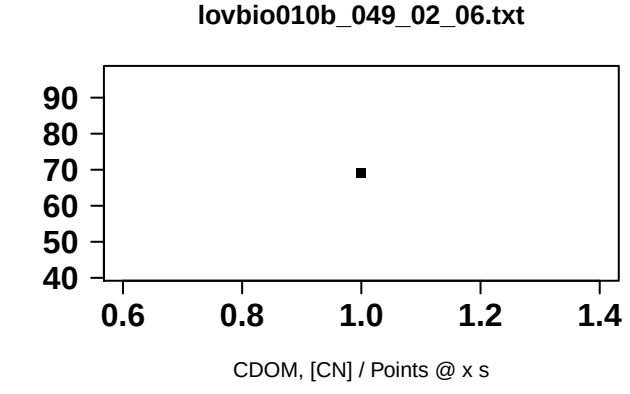

lovbio010b_049_01_06.txt
59.0
58.8
58.6
58.4
58.2
58.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

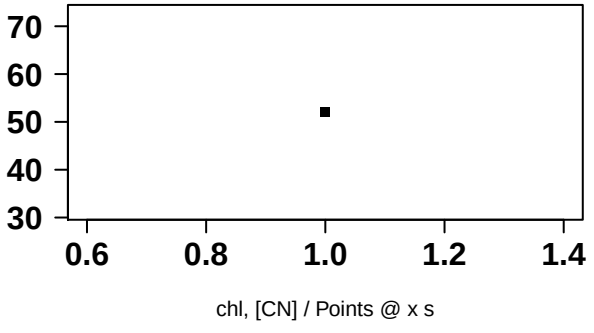

70
60
50
40
30
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

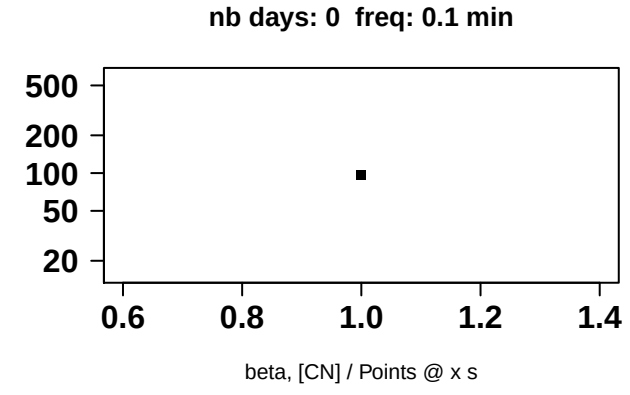

nb days: 0 freq: 0.1 min
500
200
100
50
20
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

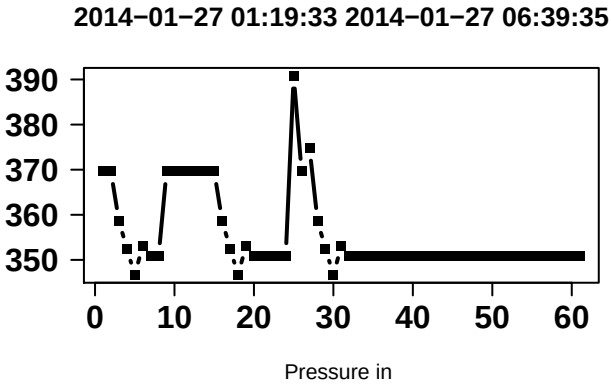

2014−01−26 18:48:37 2014−01−26 18:48:45
1400
1200
1000
800
1.0
1.5
2.0
2.5
3.0
Pressure in

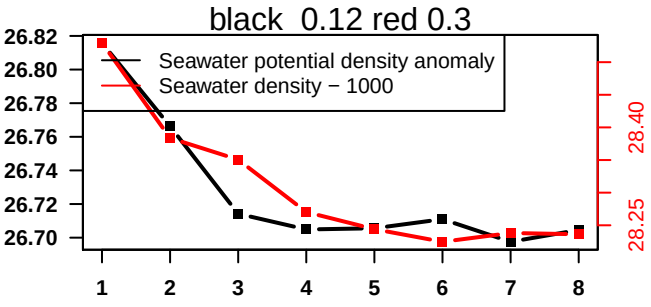

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

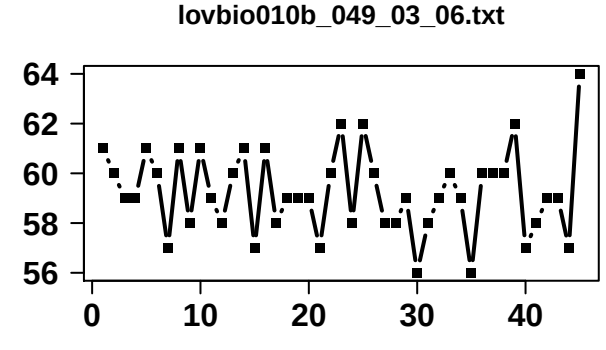

lovbio010b_049_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

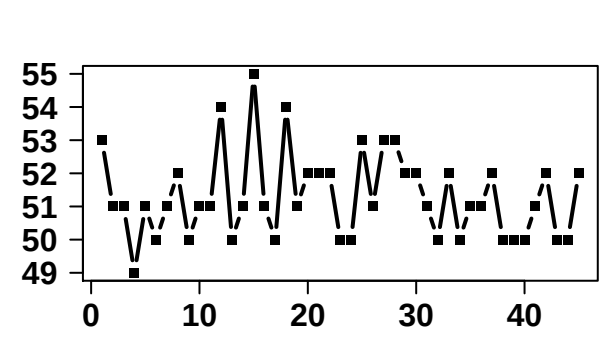

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

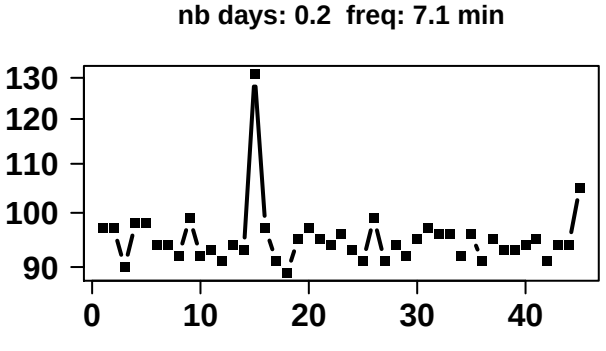

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

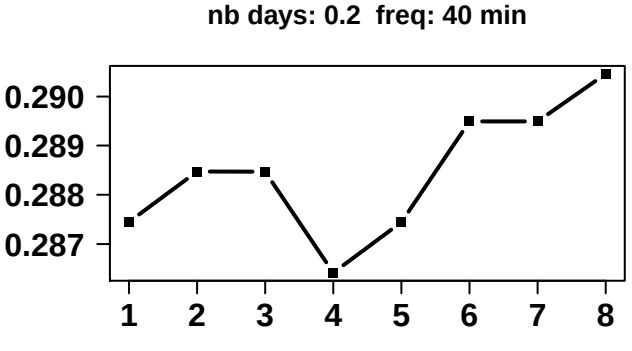

2014−01−27 01:19:33 2014−01−27 06:39:35
390
380
370
360
350
0
10
20
30
40
50
60
Pressure in

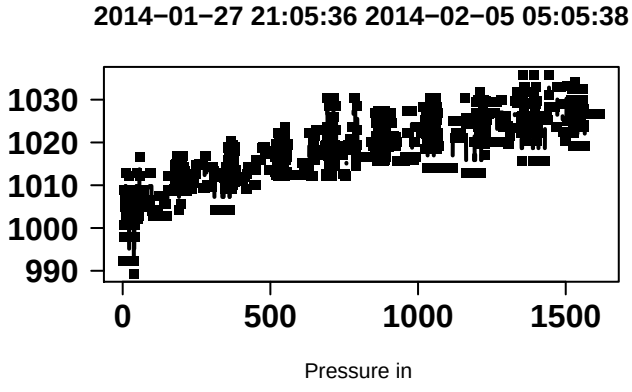

black 0.12 red 0.3
Seawater potential density anomaly
Seawater density − 1000
26.82
26.80
26.78
26.76
26.74
26.72
26.70
28.40
28.25
1
2
3
4
5
6
7
8

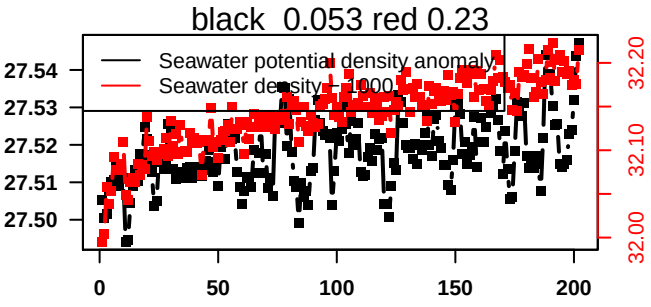

lovbio010b_049_03_06.txt
64
62
60
58
56
0
10
20
30
40
CDOM, [CN] / Points @ x s

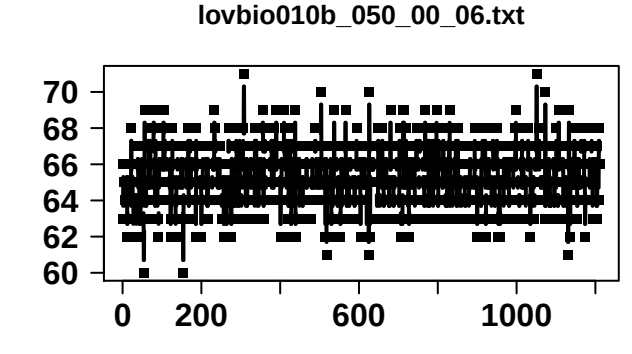

55
54
53
52
51
50
49
0
10
20
30
40
chl, [CN] / Points @ x s

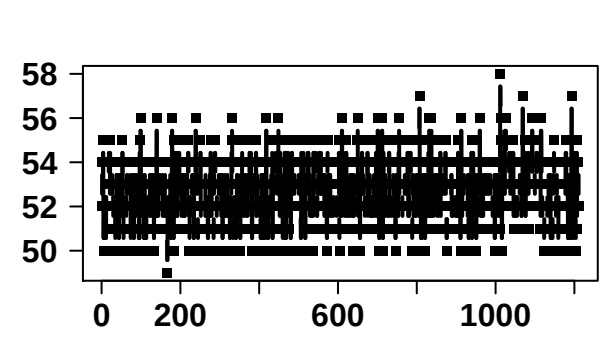

nb days: 0.2 freq: 7.1 min
130
120
110
100
90
0
10
20
30
40
beta, [CN] / Points @ x s

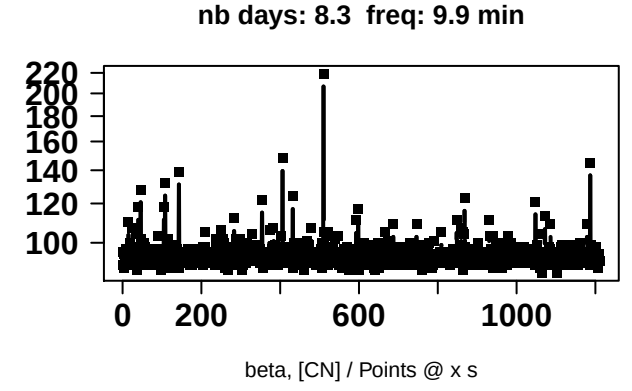

nb days: 0.2 freq: 40 min
0.290
0.289
0.288
0.287
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

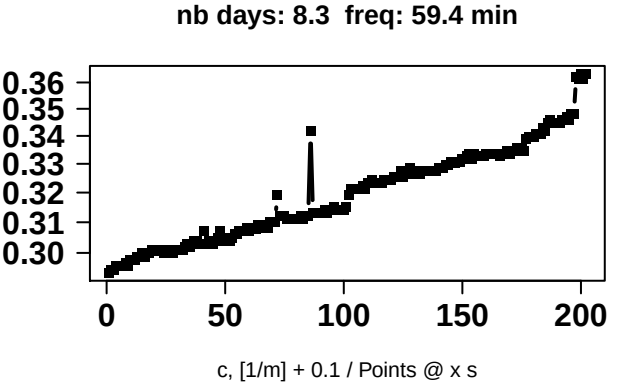

2014−01−27 21:05:36 2014−02−05 05:05:38
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

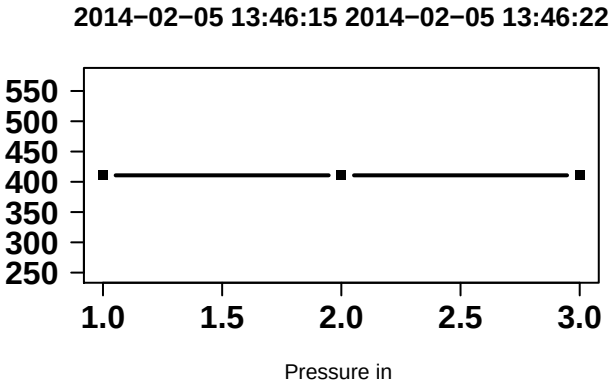

black 0.053 red 0.23
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.20
32.10
32.00
0
50
100
150
200

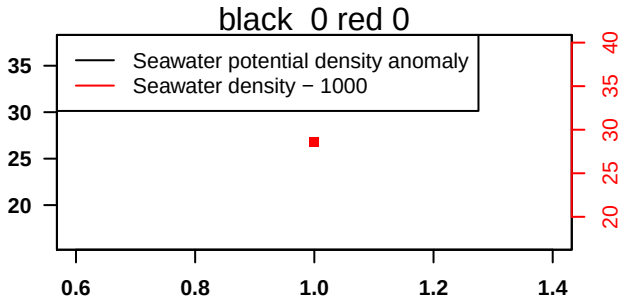

lovbio010b_050_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

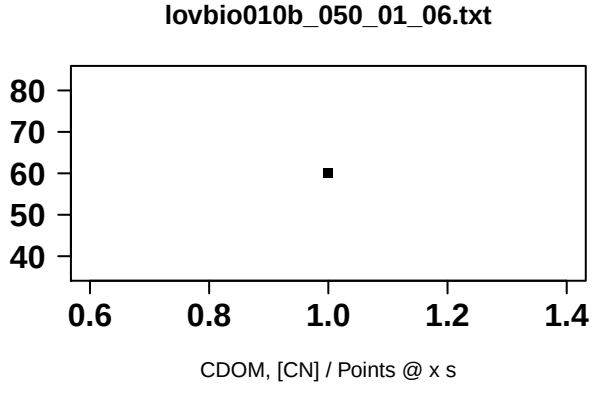

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

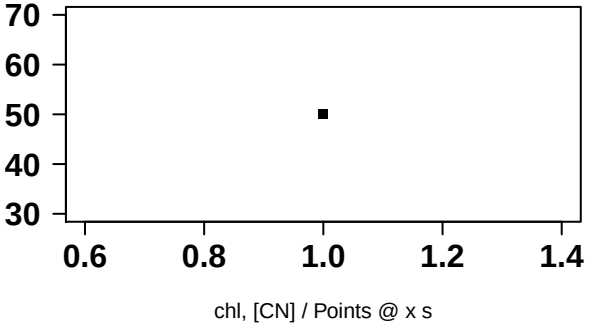

nb days: 8.3 freq: 9.9 min
220
200
180
160
140
120
100
0
200
600
1000
beta, [CN] / Points @ x s

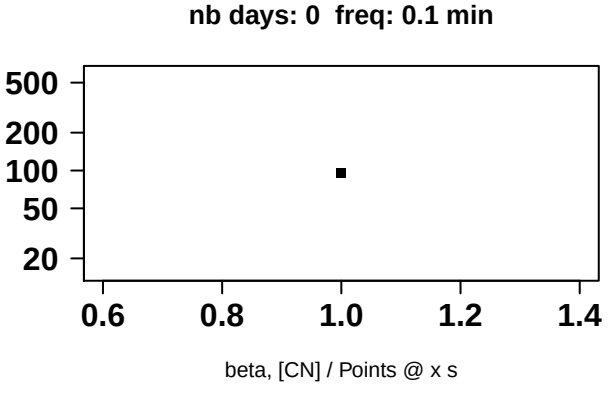

nb days: 8.3 freq: 59.4 min
0.36
0.35
0.34
0.33
0.32
0.31
0.30
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

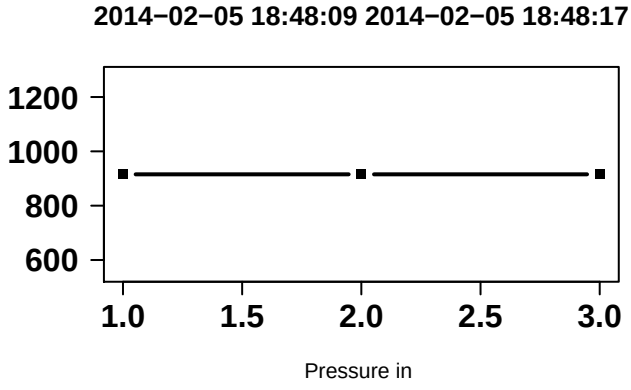

2014−02−05 13:46:15 2014−02−05 13:46:22
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

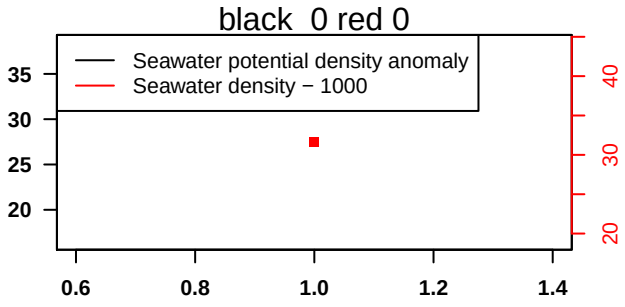

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

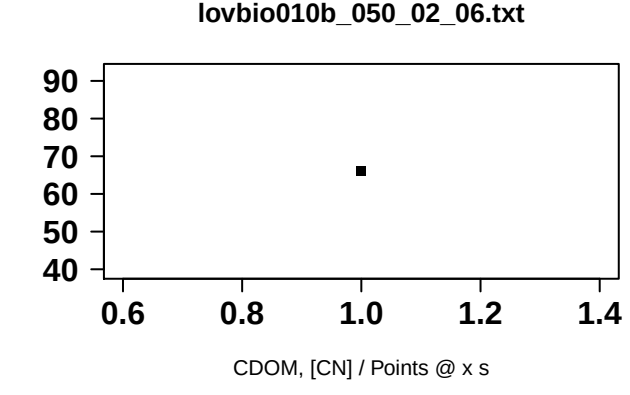

lovbio010b_050_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

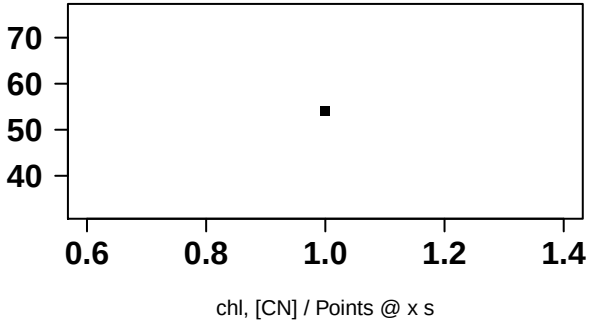

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

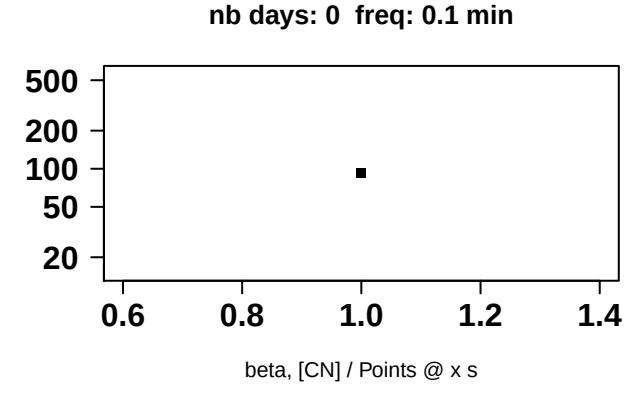

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

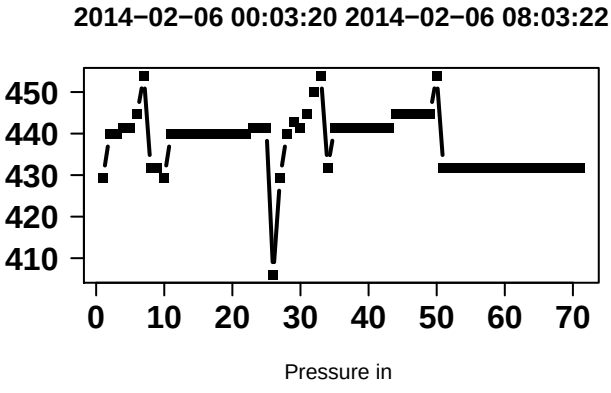

2014−02−05 18:48:09 2014−02−05 18:48:17
1200
1000
800
600
1.0
1.5
2.0
2.5
3.0
Pressure in

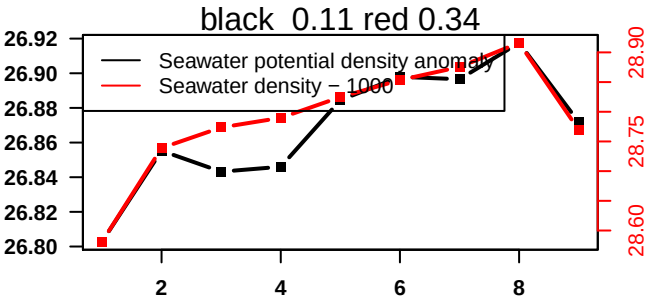

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

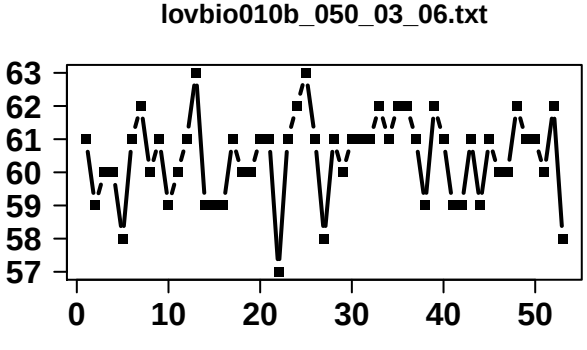

lovbio010b_050_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

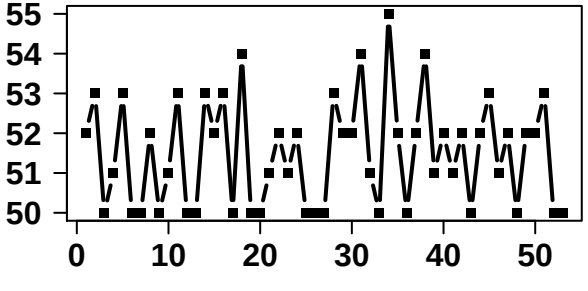

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

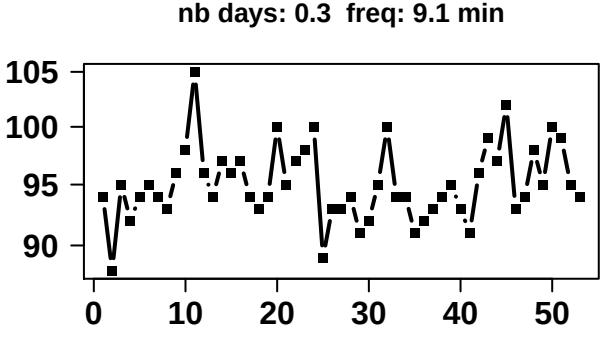

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

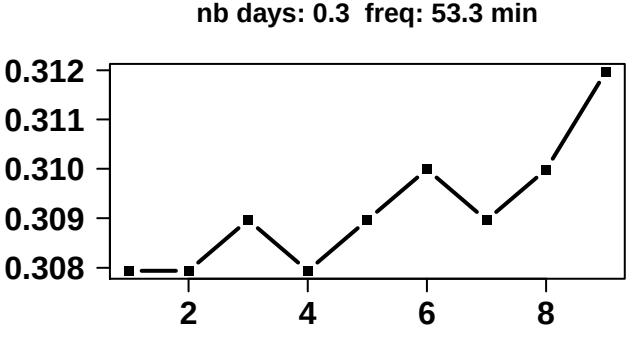

2014−02−06 00:03:20 2014−02−06 08:03:22
450
440
430
420
410
0
10
20
30
40
50
60
70
Pressure in

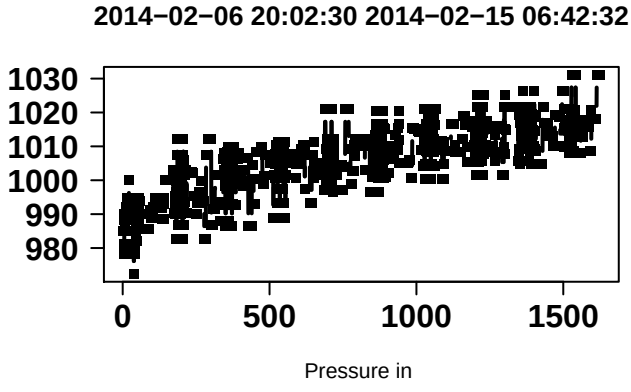

black 0.11 red 0.34
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
26.84
26.82
26.80
28.90
28.75
28.60
2
4
6
8

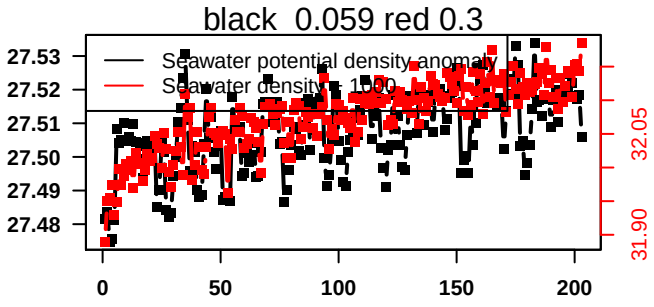

lovbio010b_050_03_06.txt
63
62
61
60
59
58
57
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

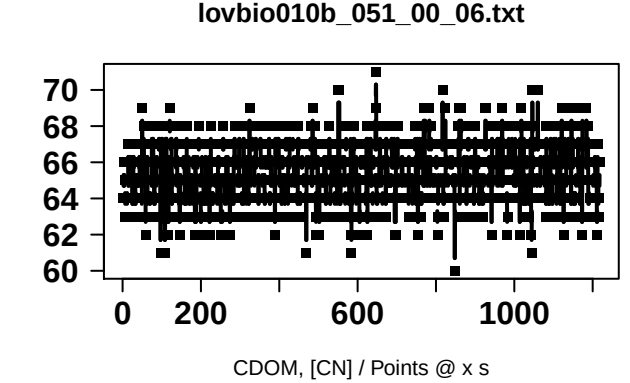

55
54
53
52
51
50
0
10
20
30
40
50
chl, [CN] / Points @ x s

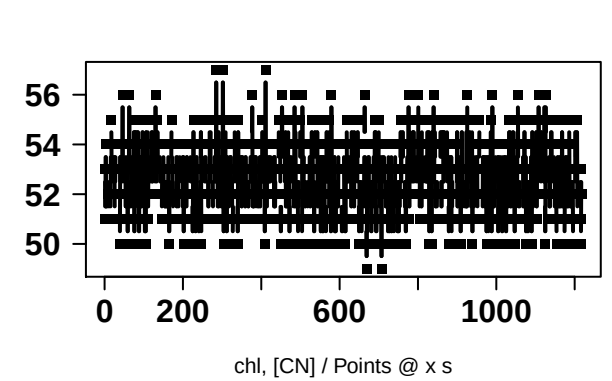

nb days: 0.3 freq: 9.1 min
105
100
95
90
0
10
20
30
40
50
beta, [CN] / Points @ x s

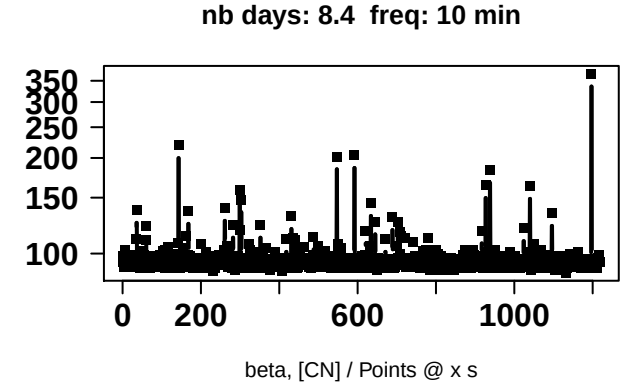

nb days: 0.3 freq: 53.3 min
0.312
0.311
0.310
0.309
0.308
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

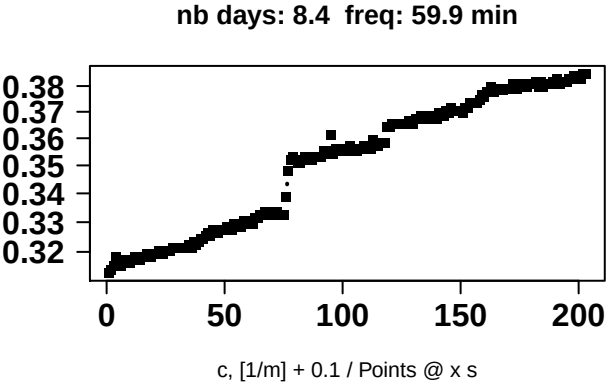

2014−02−06 20:02:30 2014−02−15 06:42:32
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

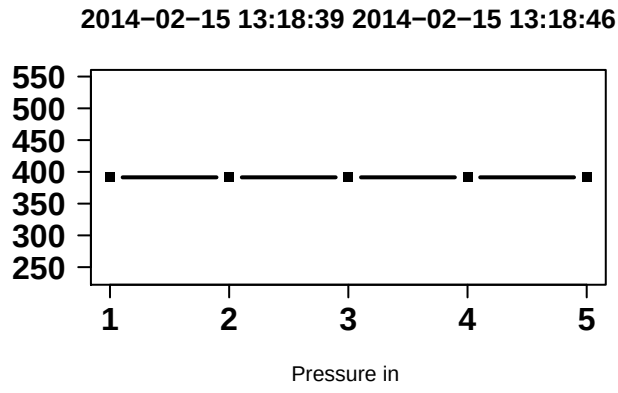

black 0.059 red 0.3
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
27.48
0
50
100
150
200
32.05
31.90

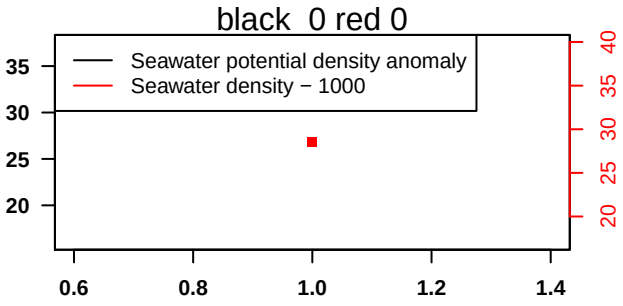

lovbio010b_051_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

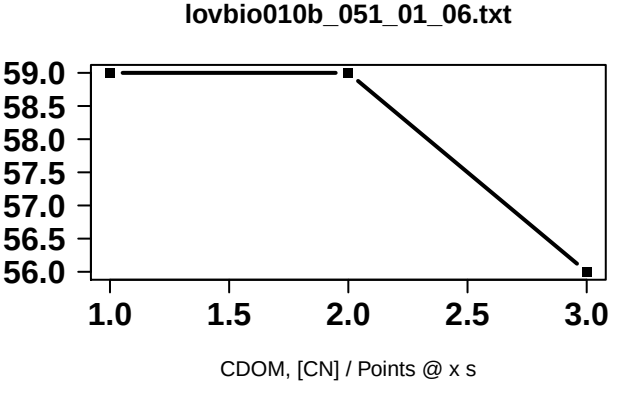

56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

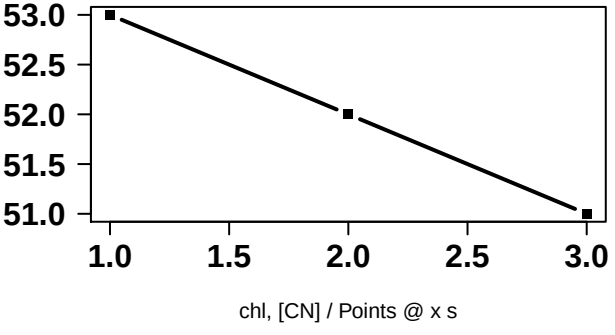

nb days: 8.4 freq: 10 min
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

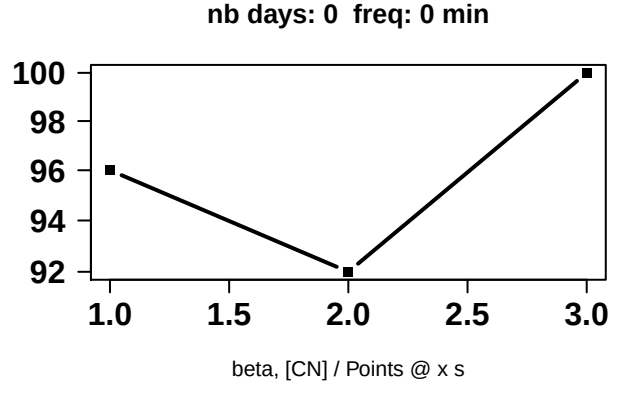

nb days: 8.4 freq: 59.9 min
0.38
0.37
0.36
0.35
0.34
0.33
0.32
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

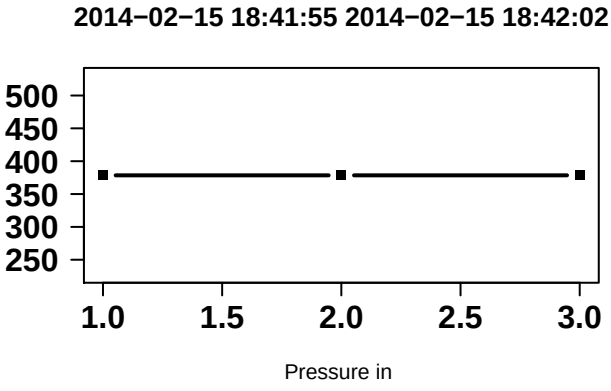

2014−02−15 13:18:39 2014−02−15 13:18:46
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

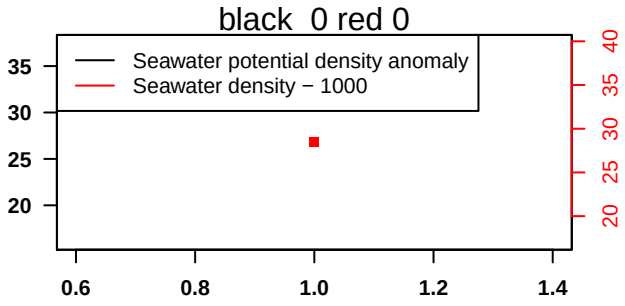

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

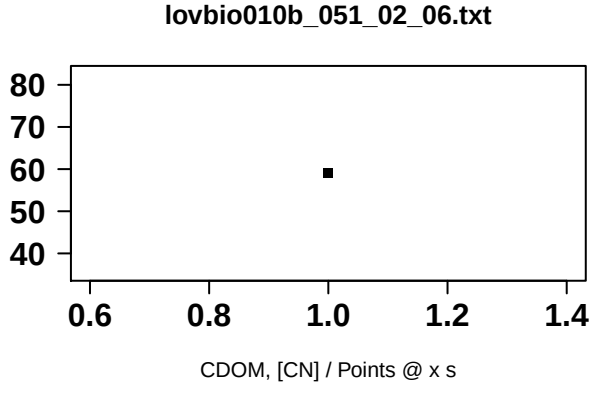

lovbio010b_051_01_06.txt
59.0
58.5
58.0
57.5
57.0
56.5
56.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

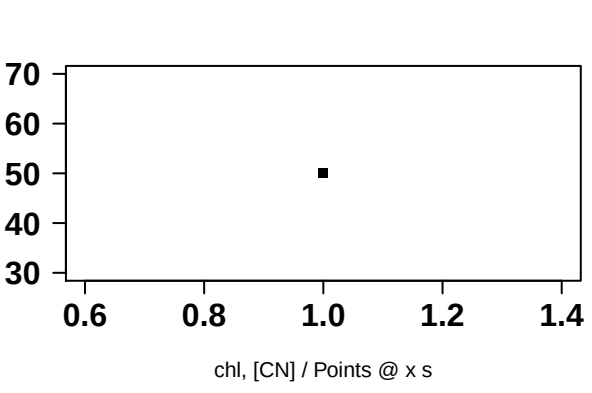

53.0
52.5
52.0
51.5
51.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

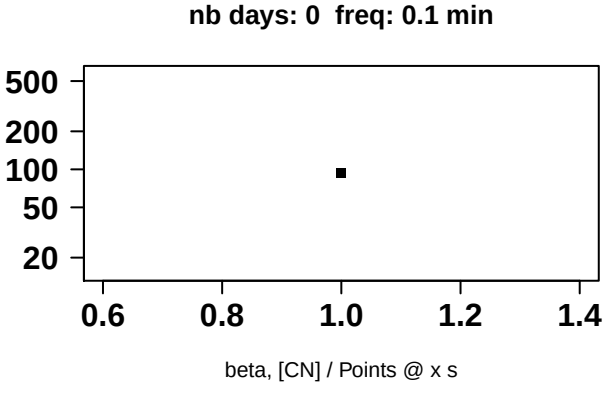

nb days: 0 freq: 0 min
100
98
96
94
92
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

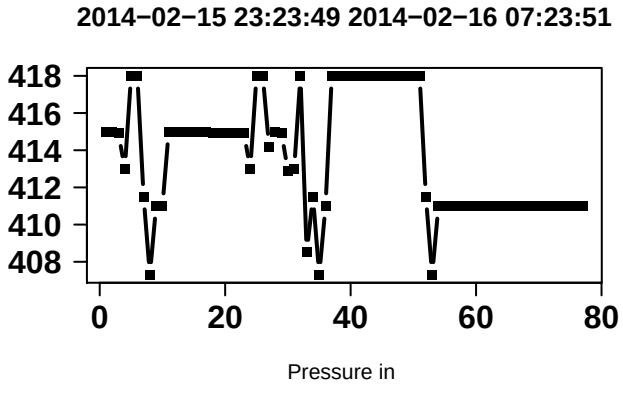

2014−02−15 18:41:55 2014−02−15 18:42:02
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

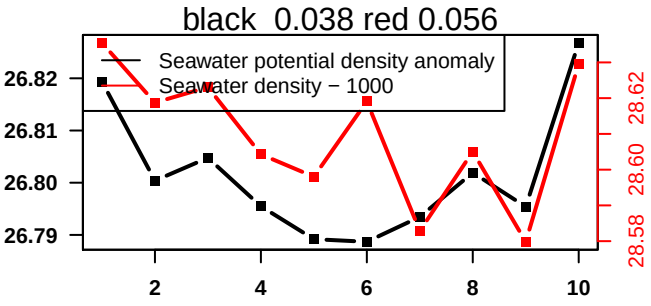

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

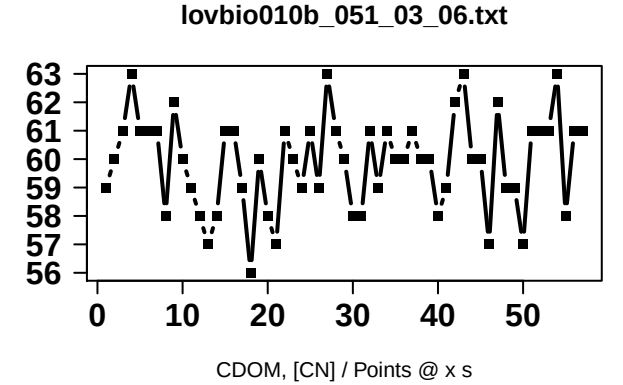

lovbio010b_051_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

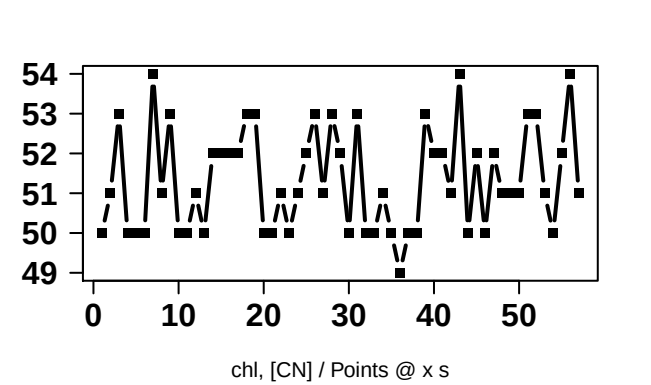

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

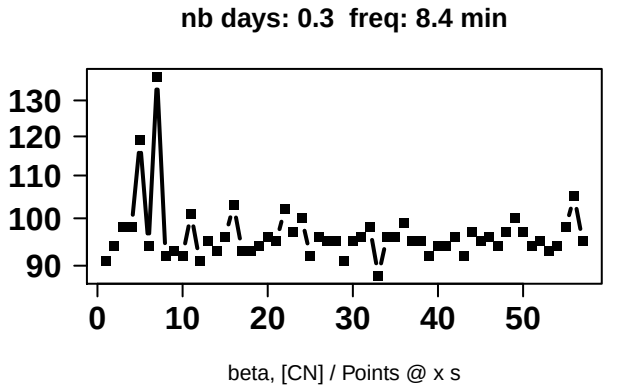

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

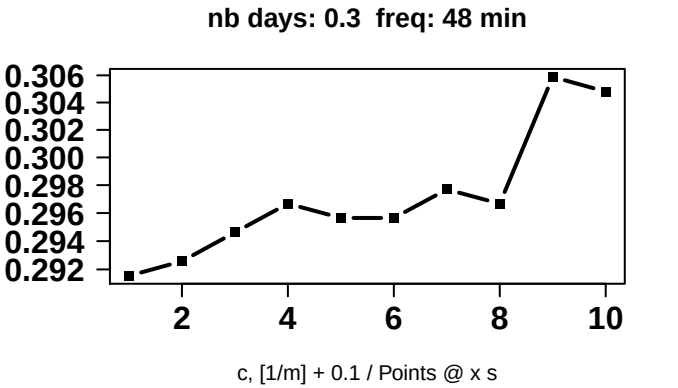

2014−02−15 23:23:49 2014−02−16 07:23:51
418
416
414
412
410
408
0
20
40
60
80
Pressure in

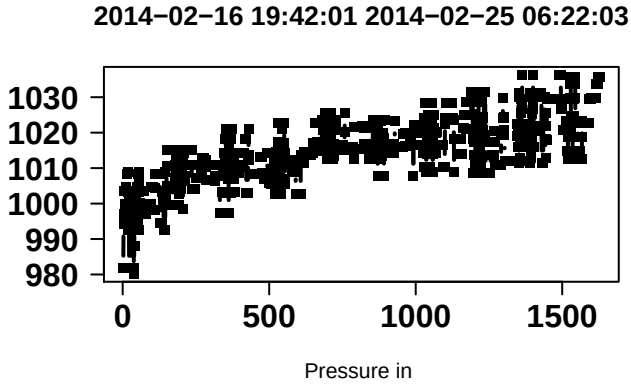

black 0.038 red 0.056
Seawater potential density anomaly
Seawater density − 1000
26.82
26.81
26.80
26.79
28.62
28.60
28.58
2
4
6
8
10

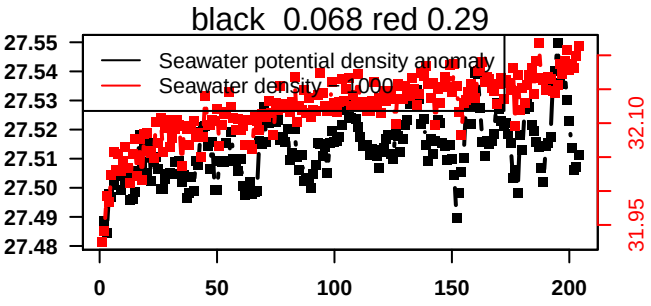

lovbio010b_051_03_06.txt
63
62
61
60
59
58
57
56
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

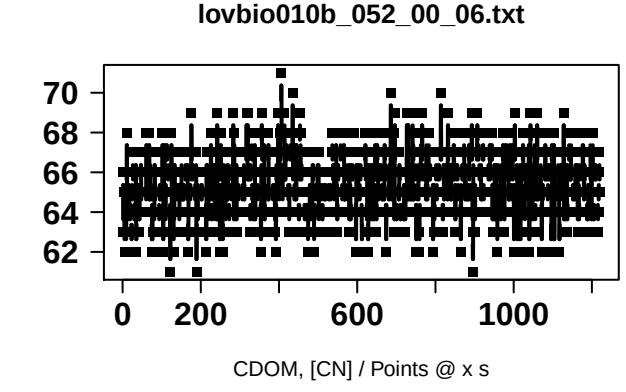

54
53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

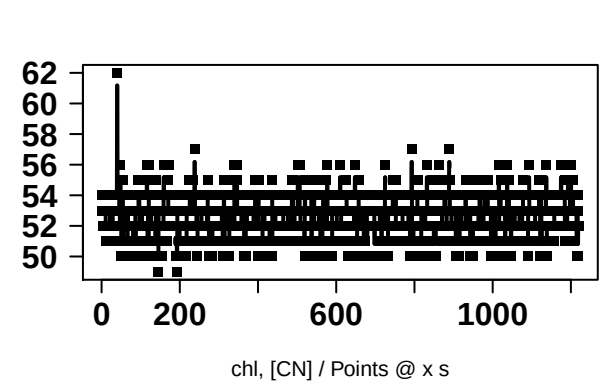

nb days: 0.3 freq: 8.4 min
130
120
110
100
90
0
10
20
30
40
50
beta, [CN] / Points @ x s

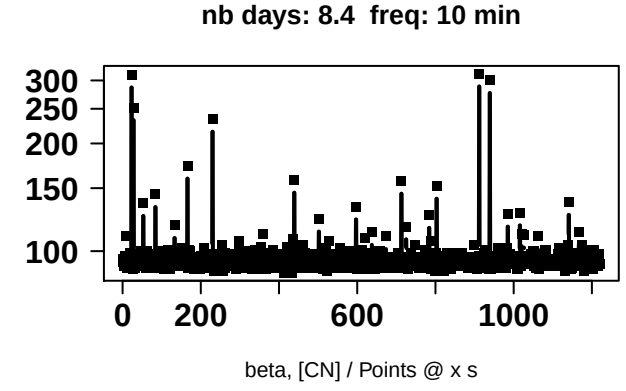

nb days: 0.3 freq: 48 min
0.306
0.304
0.302
0.300
0.298
0.296
0.294
0.292
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

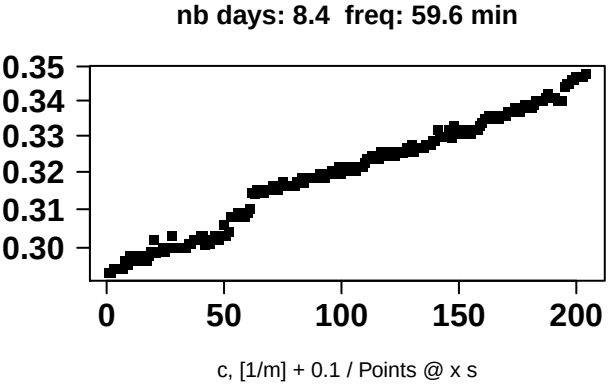

2014−02−16 19:42:01 2014−02−25 06:22:03
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

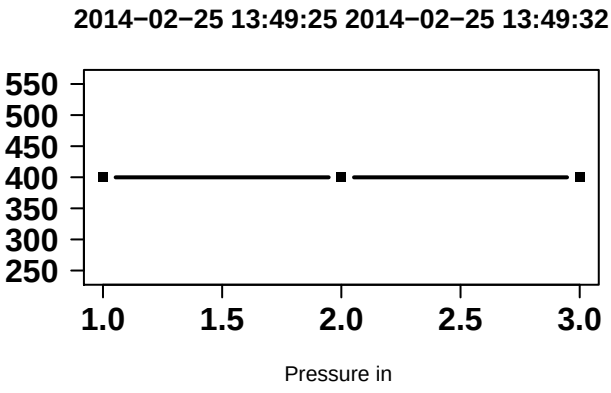

black 0.068 red 0.29
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
27.50
27.49
27.48
32.10
31.95
0
50
100
150
200

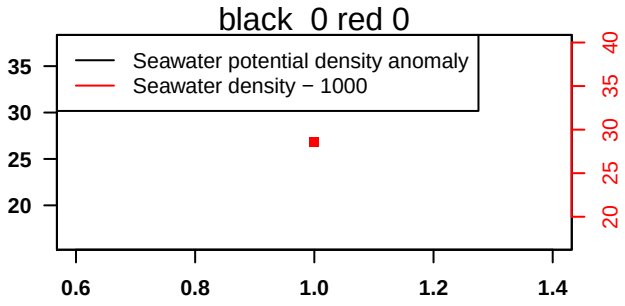

lovbio010b_052_00_06.txt
70
68
66
64
62
0
200
600
1000
CDOM, [CN] / Points @ x s

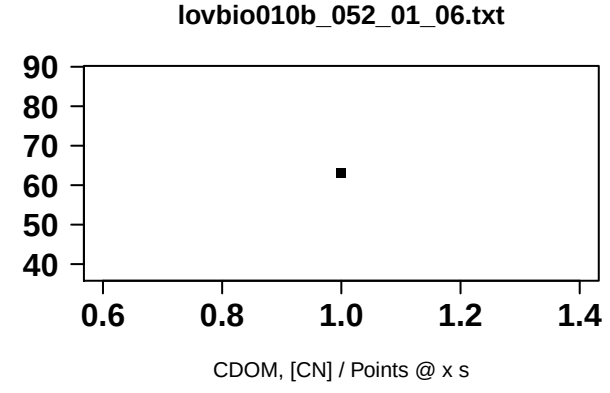

62
60
58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

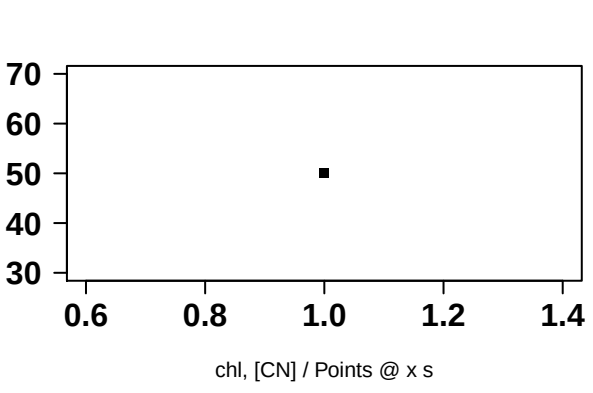

nb days: 8.4 freq: 10 min
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

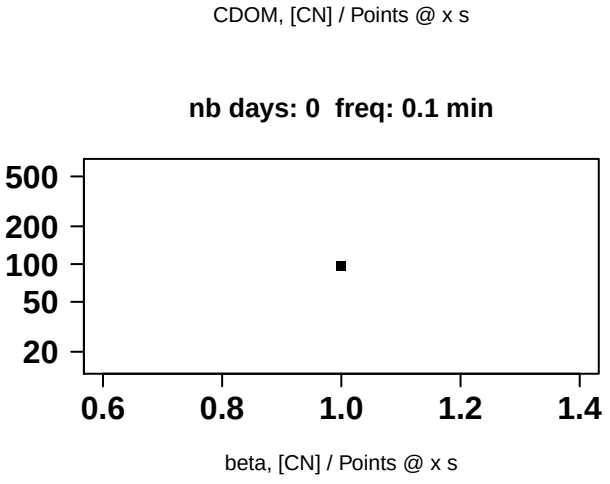

nb days: 8.4 freq: 59.6 min
0.35
0.34
0.33
0.32
0.31
0.30
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

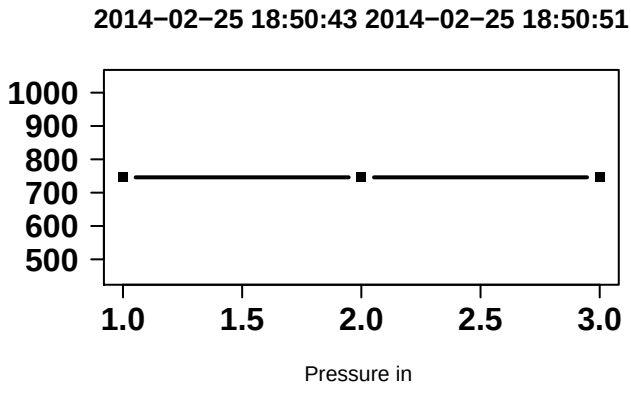

2014−02−25 13:49:25 2014−02−25 13:49:32
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

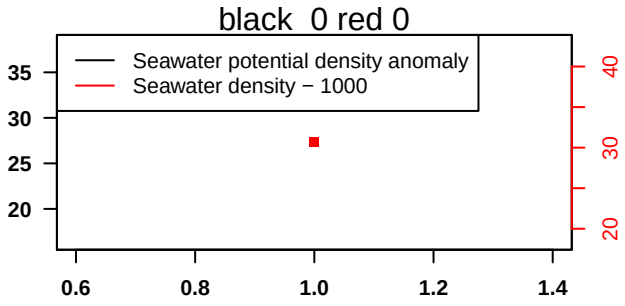

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

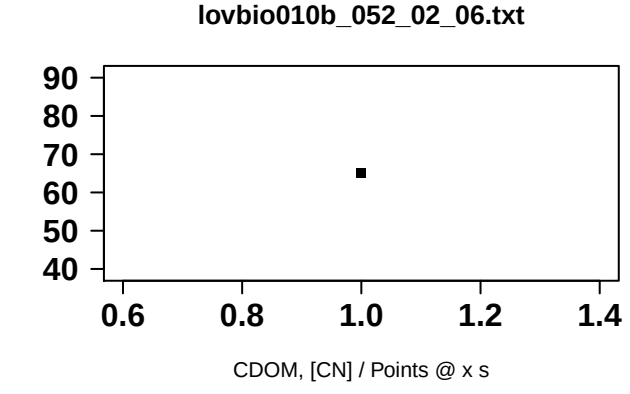

lovbio010b_052_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

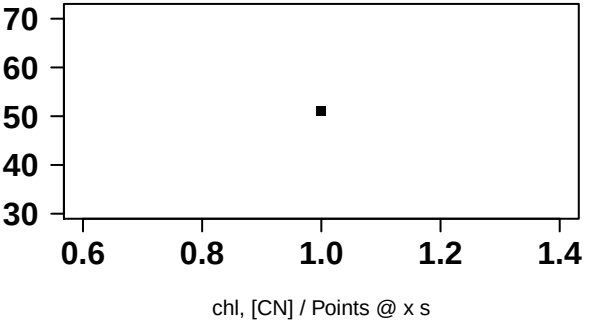

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

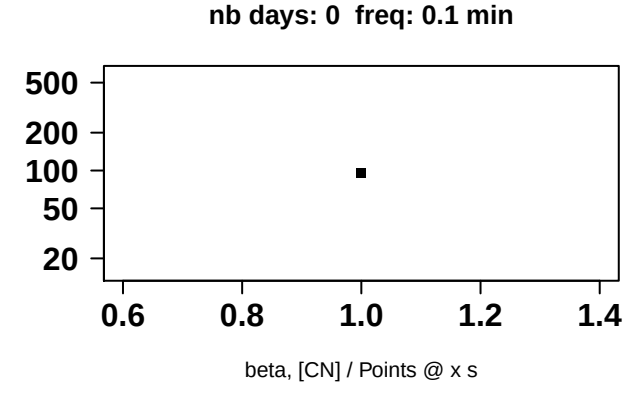

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

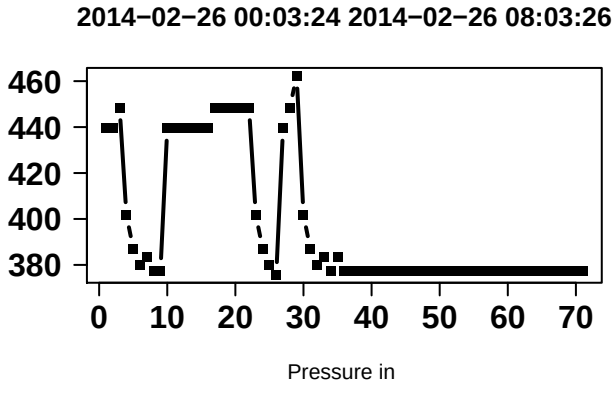

2014−02−25 18:50:43 2014−02−25 18:50:51
1000
900
800
700
600
500
1.0
1.5
2.0
2.5
3.0
Pressure in

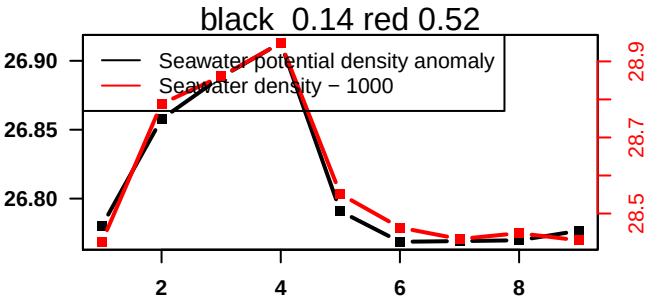

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

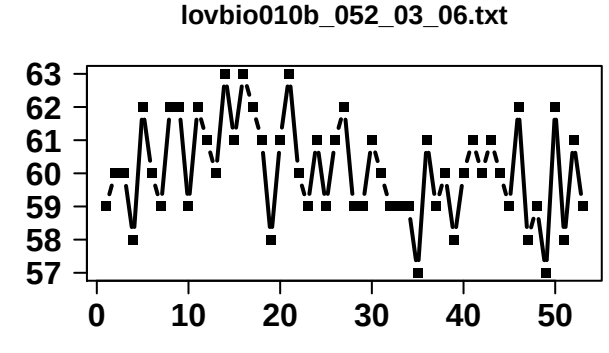

lovbio010b_052_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

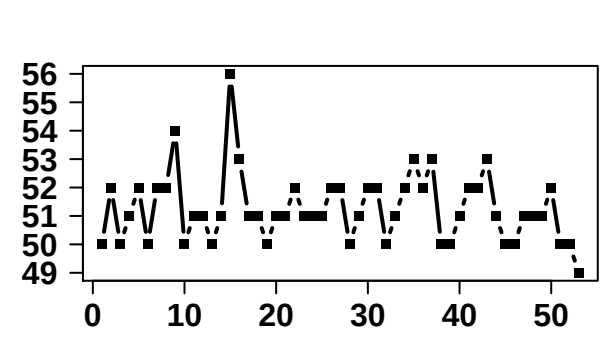

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

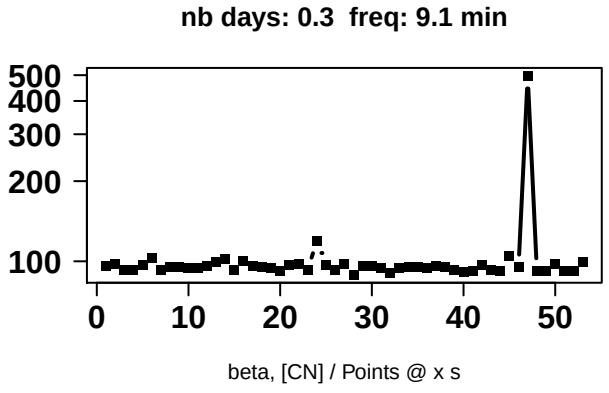

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

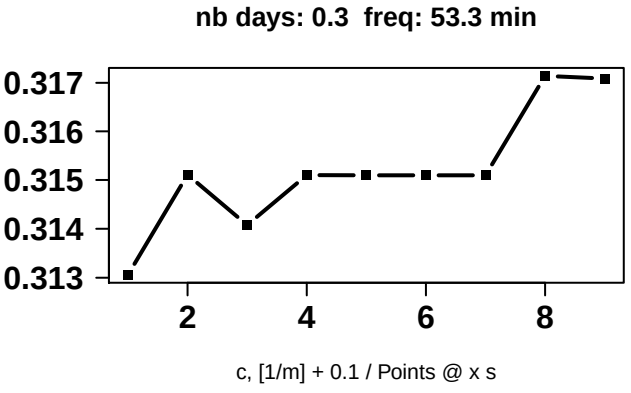

2014−02−26 00:03:24 2014−02−26 08:03:26
460
440
420
400
380
0
10
20
30
40
50
60
70
Pressure in

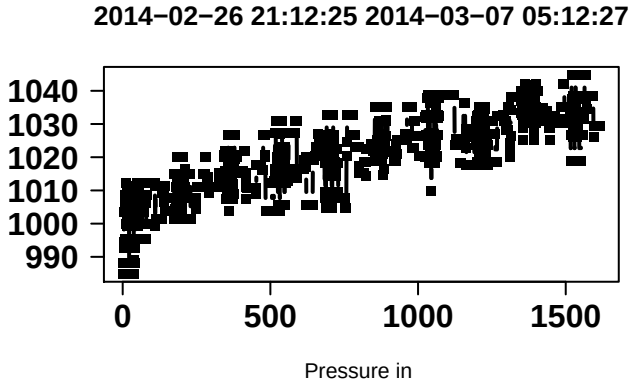

black 0.14 red 0.52
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
28.9
28.7
28.5
2
4
6
8

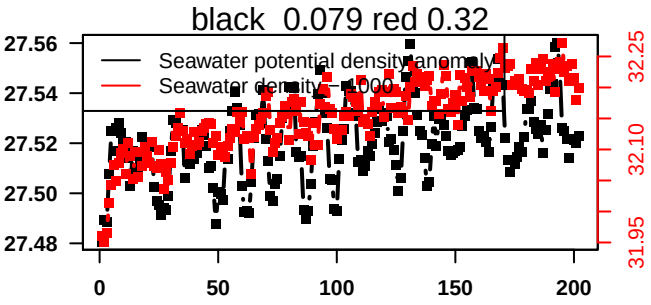

lovbio010b_052_03_06.txt
63
62
61
60
59
58
57
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

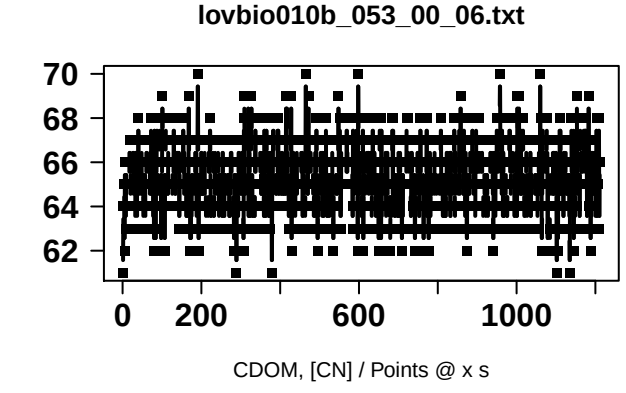

56
55
54
53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

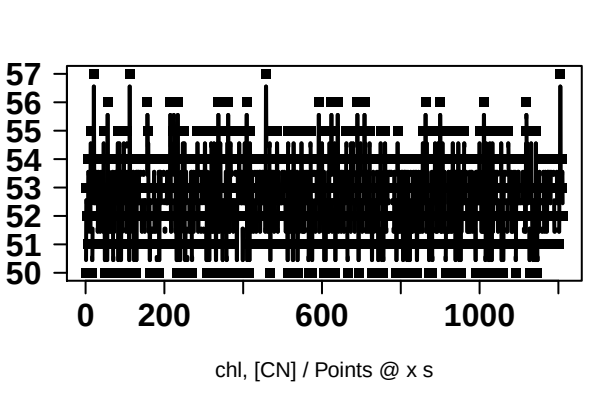

nb days: 0.3 freq: 9.1 min
500
400
300
200
100
0
10
20
30
40
50
beta, [CN] / Points @ x s

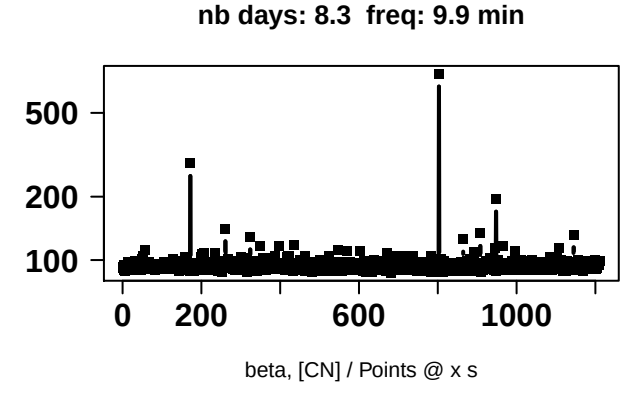

nb days: 0.3 freq: 53.3 min
0.317
0.316
0.315
0.314
0.313
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

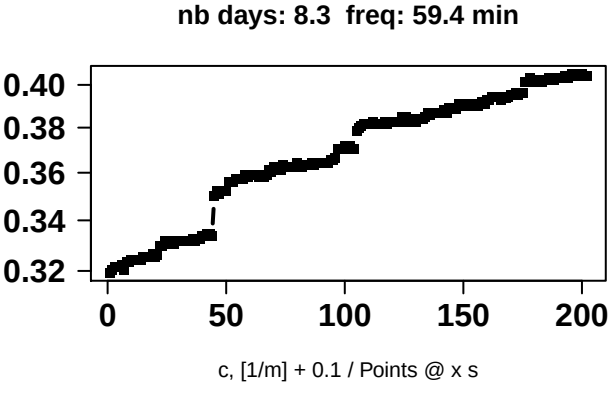

2014−02−26 21:12:25 2014−03−07 05:12:27
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

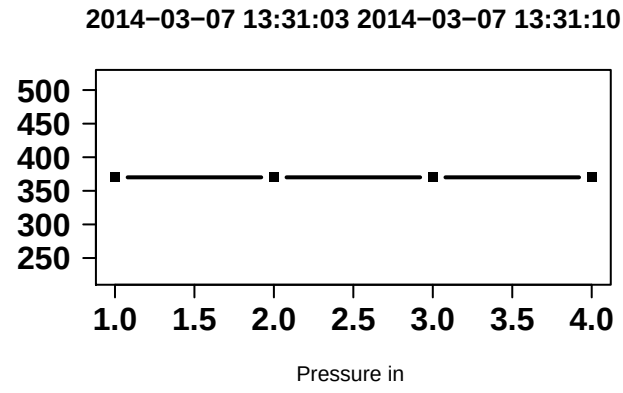

black 0.079 red 0.32
Seawater potential density anomaly
Seawater density −1000
27.56
27.54
27.52
27.50
27.48
32.25
32.10
31.95
0
50
100
150
200

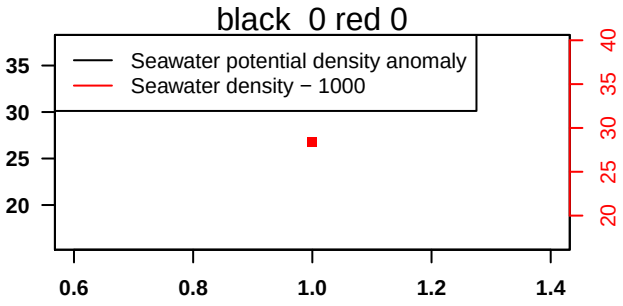

lovbio010b_053_00_06.txt
70
68
66
64
62
0
200
600
1000
CDOM, [CN] / Points @ x s

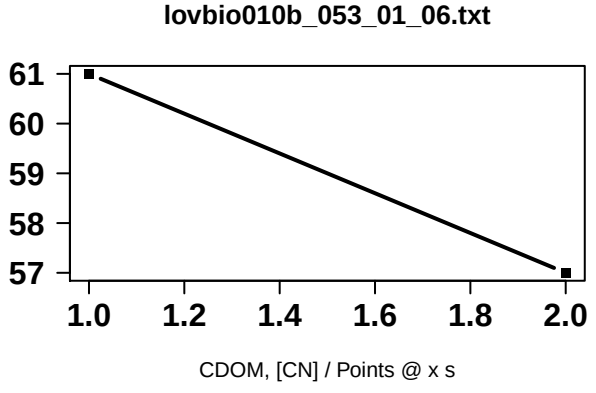

57
56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

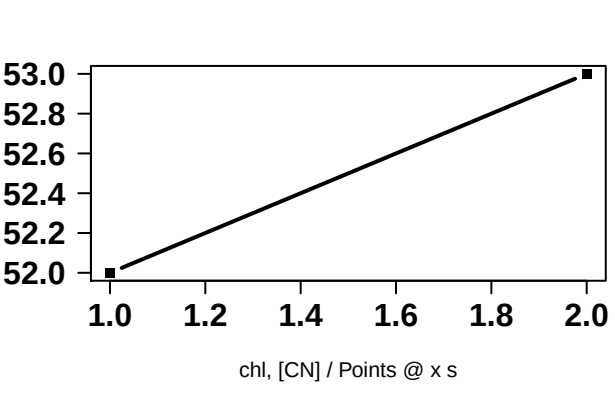

nb days: 8.3 freq: 9.9 min
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

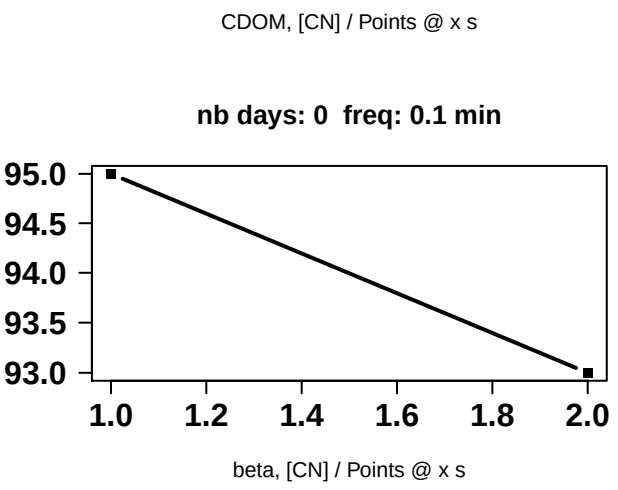

nb days: 8.3 freq: 59.4 min
0.40
0.38
0.36
0.34
0.32
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

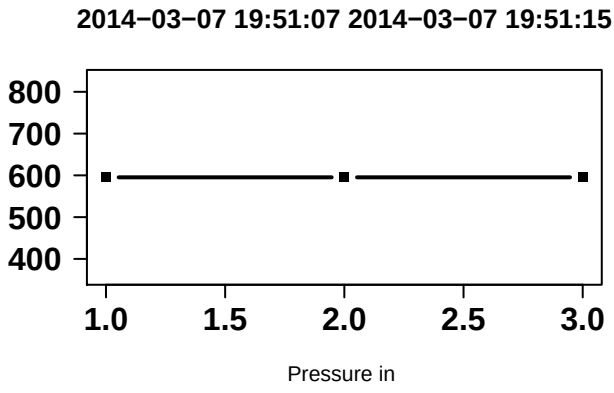

2014−03−07 13:31:03 2014−03−07 13:31:10
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

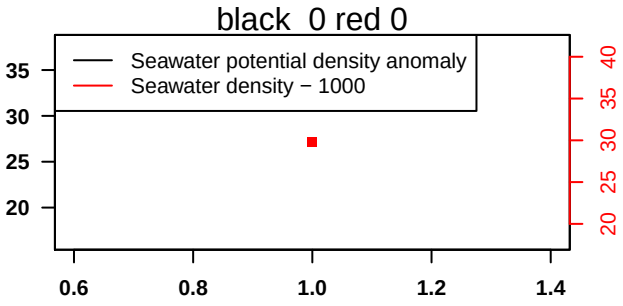

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

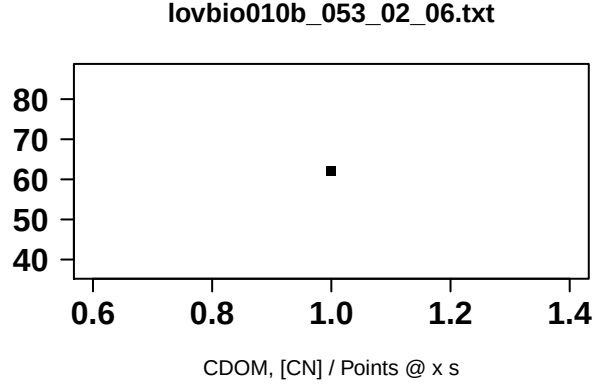

lovbio010b_053_01_06.txt
61
60
59
58
57
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

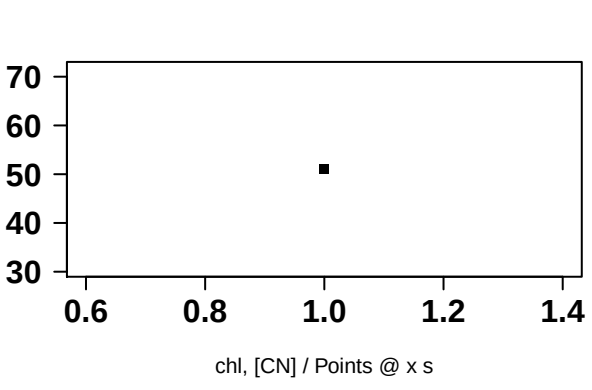

53.0
52.8
52.6
52.4
52.2
52.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

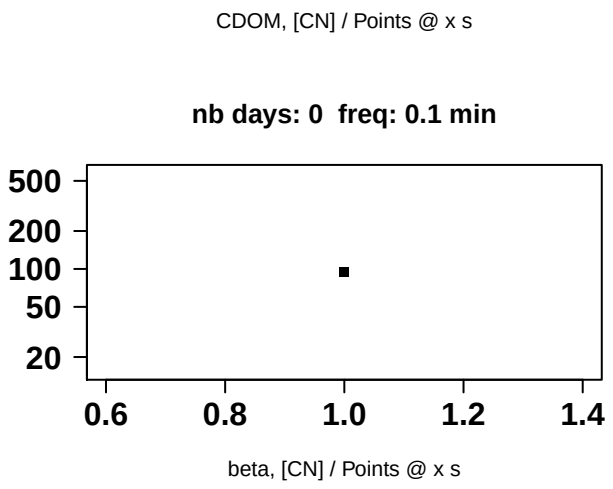

nb days: 0 freq: 0.1 min
95.0
94.5
94.0
93.5
93.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

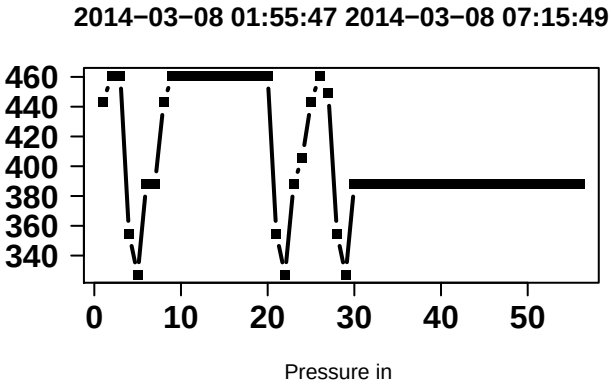

2014−03−07 19:51:07 2014−03−07 19:51:15
800
700
600
500
400
1.0
1.5
2.0
2.5
3.0
Pressure in

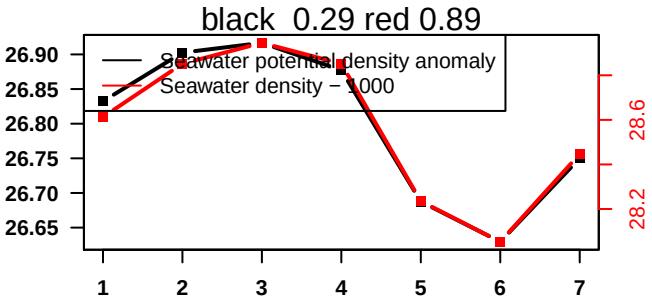

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

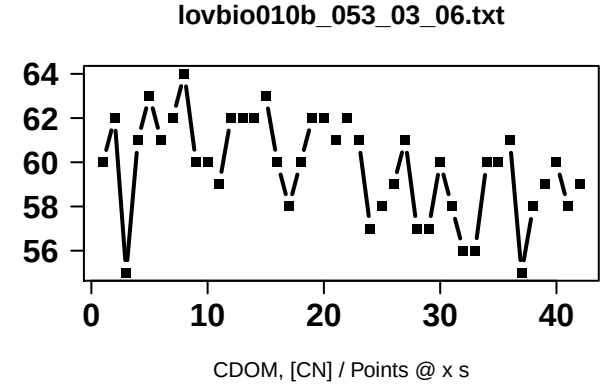

lovbio010b_053_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

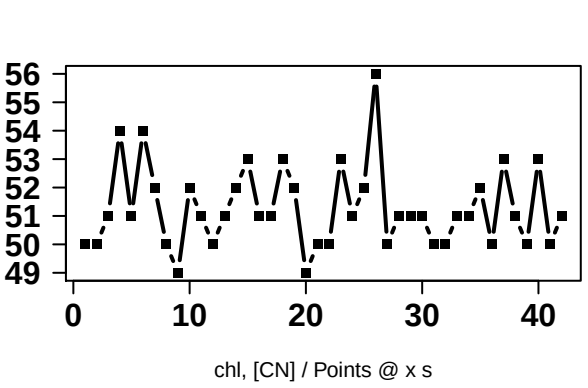

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

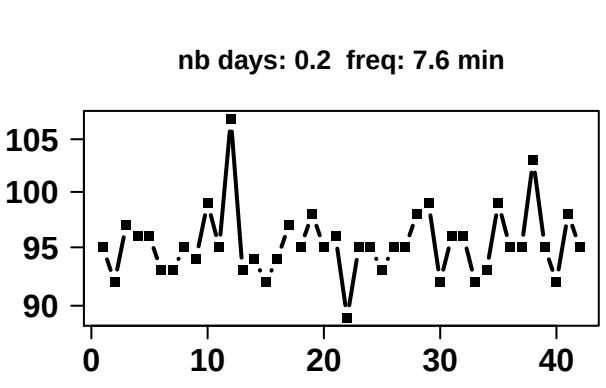

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

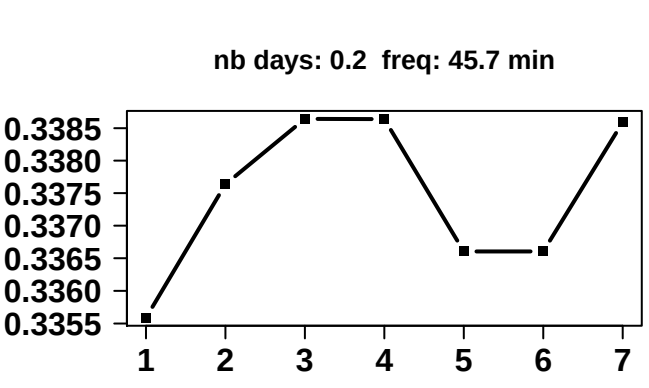

2014−03−08 01:55:47 2014−03−08 07:15:49
460
440
420
400
380
360
340
0
10
20
30
40
50
Pressure in

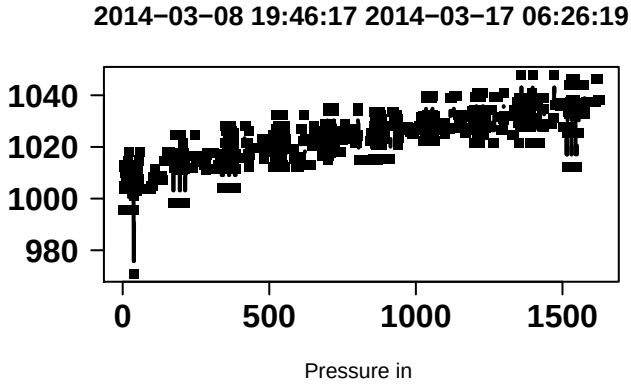

black 0.29 red 0.89
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
26.75
26.70
26.65
28.6
28.2
1
2
3
4
5
6
7

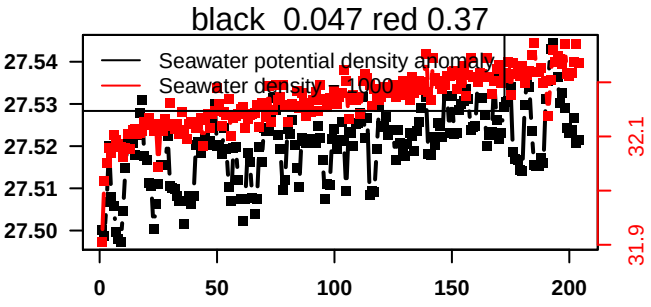

lovbio010b_053_03_06.txt
64
62
60
58
56
0
10
20
30
40
CDOM, [CN] / Points @ x s

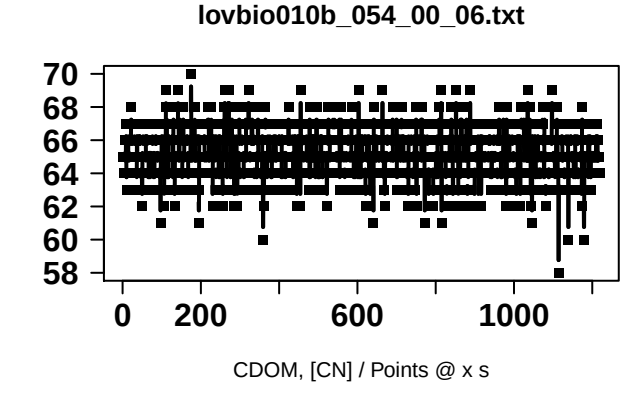

56
55
54
53
52
51
50
49
0
10
20
30
40
chl, [CN] / Points @ x s

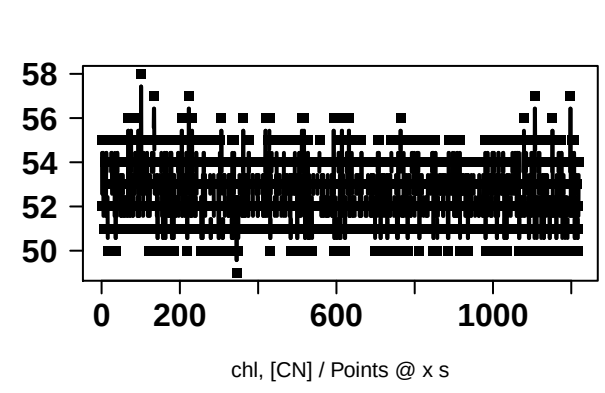

nb days: 0.2 freq: 7.6 min
105
100
95
90
0
10
20
30
40
beta, [CN] / Points @ x s

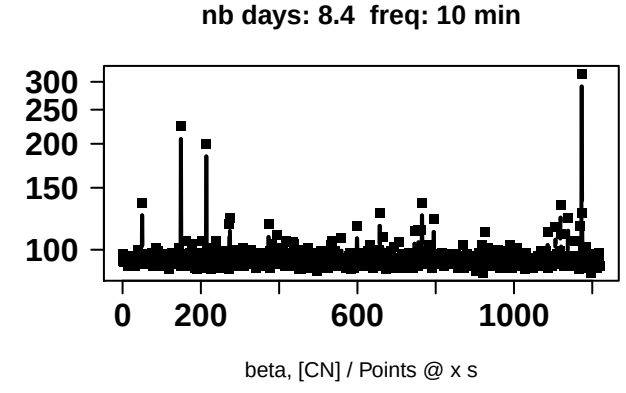

nb days: 0.2 freq: 45.7 min
0.3385
0.3380
0.3375
0.3370
0.3365
0.3360
0.3355
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

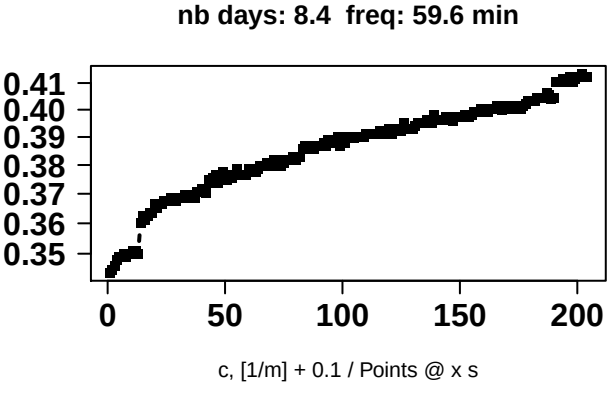

2014−03−08 19:46:17 2014−03−17 06:26:19
1040
1020
1000
980
0
500
1000
1500
Pressure in

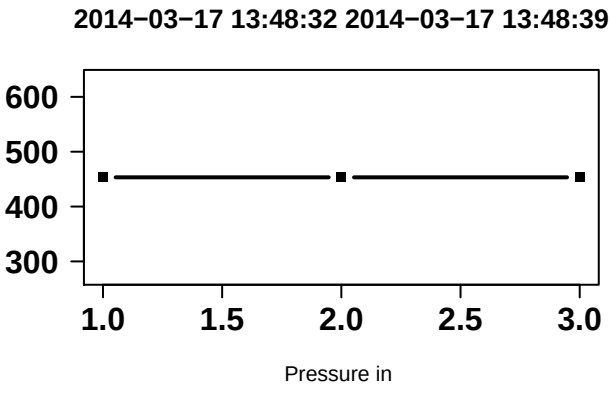

black 0.047 red 0.37
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.1
31.9
0
50
100
150
200

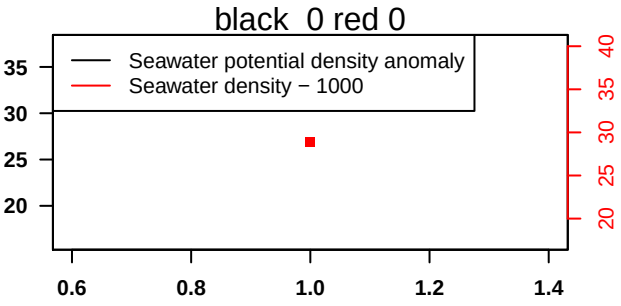

lovbio010b_054_00_06.txt
70
68
66
64
62
60
58
0
200
600
1000
CDOM, [CN] / Points @ x s

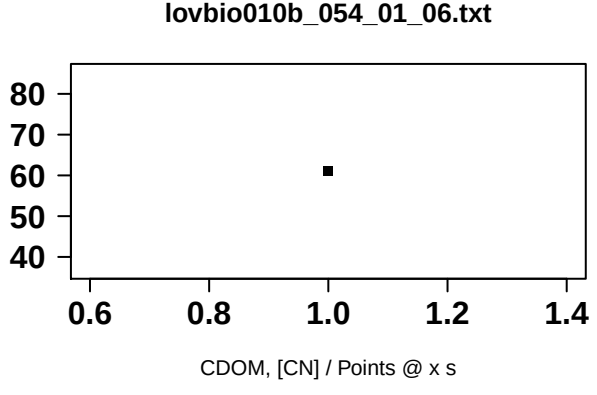

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

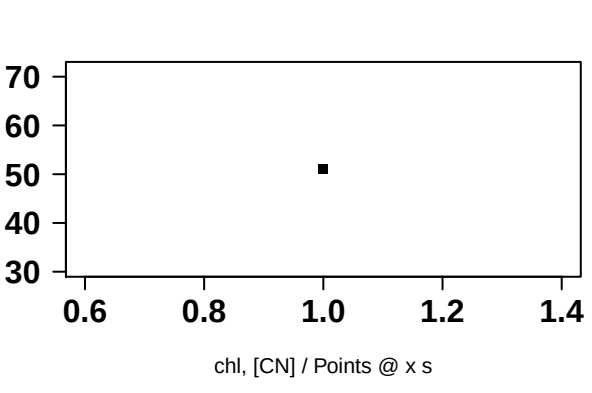

nb days: 8.4 freq: 10 min
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

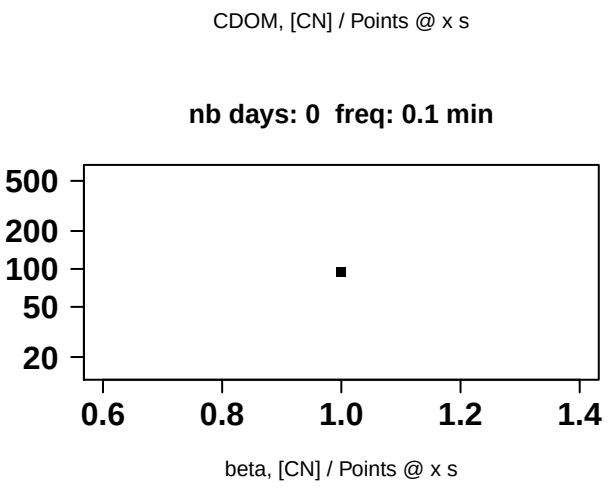

nb days: 8.4 freq: 59.6 min
0.41
0.40
0.39
0.38
0.37
0.36
0.35
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

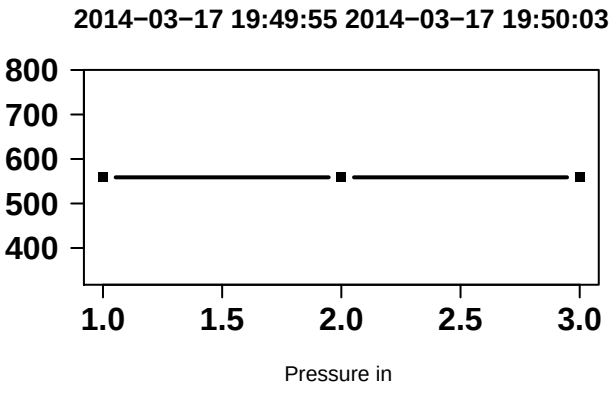

2014−03−17 13:48:32 2014−03−17 13:48:39
600
500
400
300
1.0
1.5
2.0
2.5
3.0
Pressure in

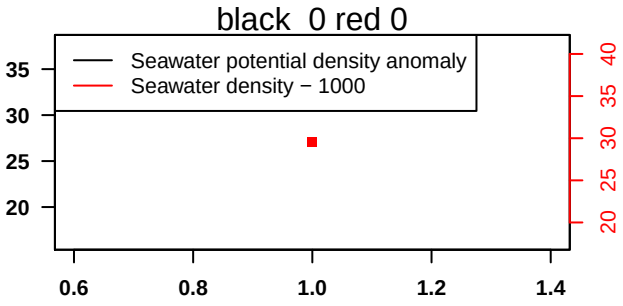

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

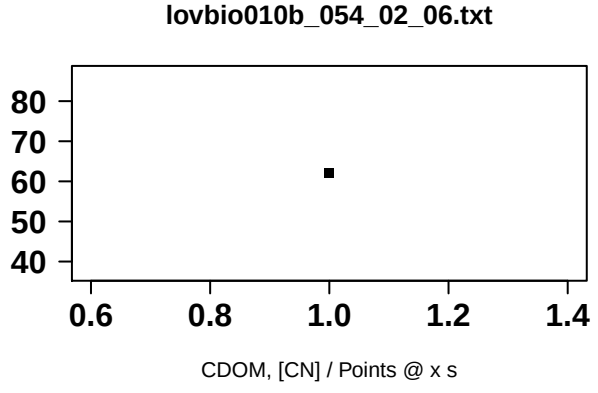

lovbio010b_054_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

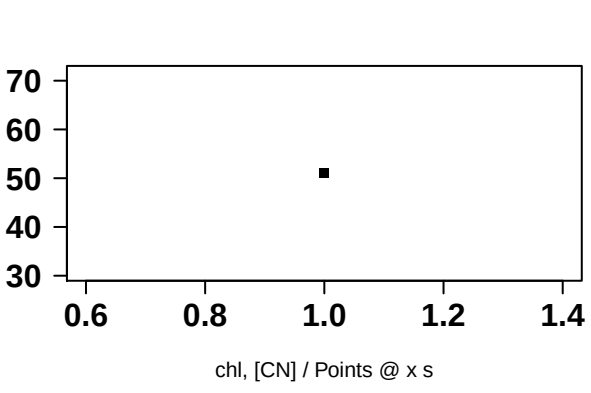

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

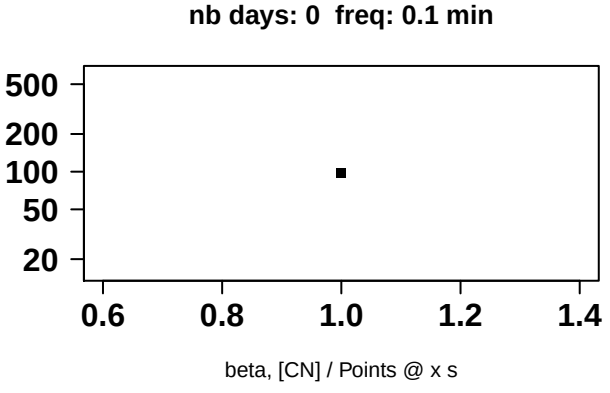

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

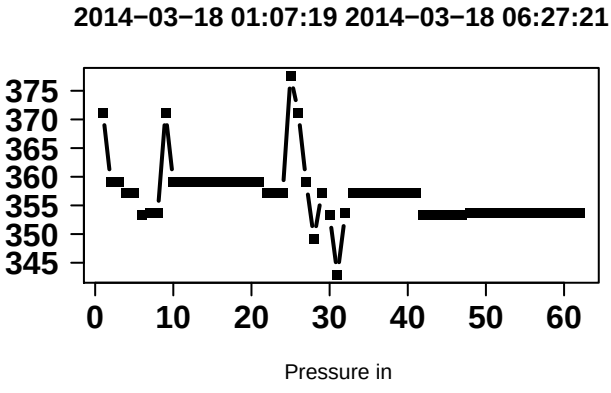

2014−03−17 19:49:55 2014−03−17 19:50:03
800
700
600
500
400
1.0
1.5
2.0
2.5
3.0
Pressure in

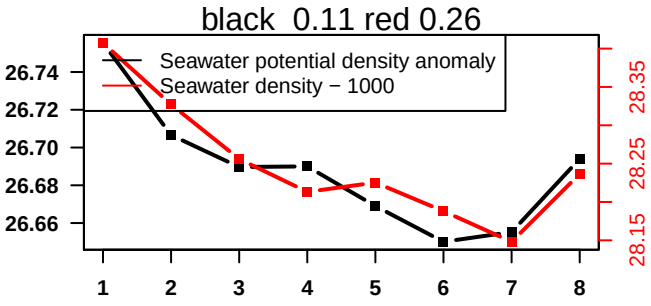

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

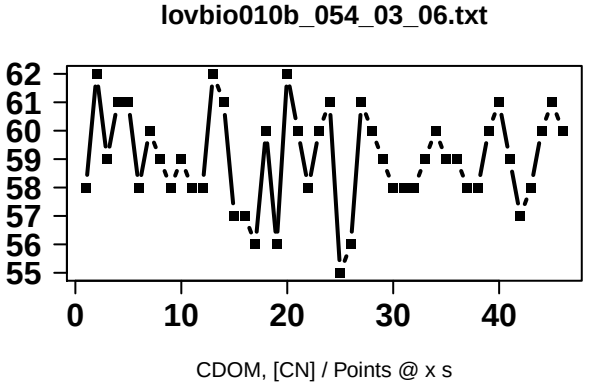

lovbio010b_054_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

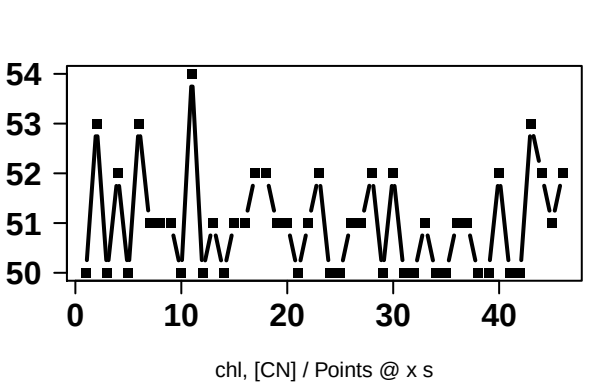

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

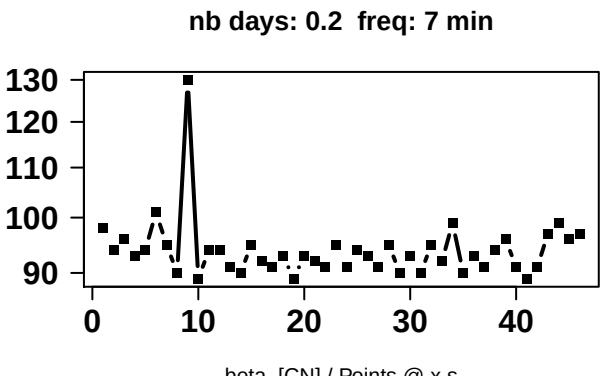

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

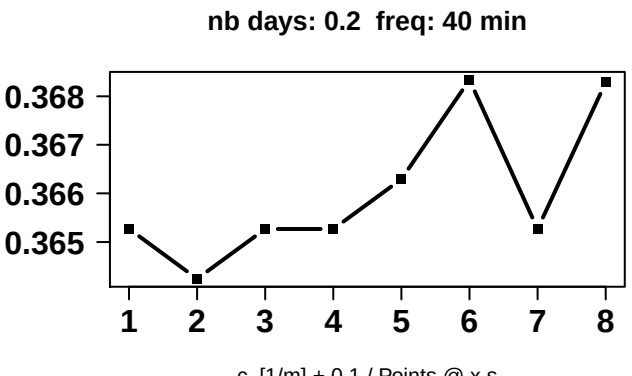

2014−03−18 01:07:19 2014−03−18 06:27:21
375
370
365
360
355
350
345
0
10
20
30
40
50
60
Pressure in

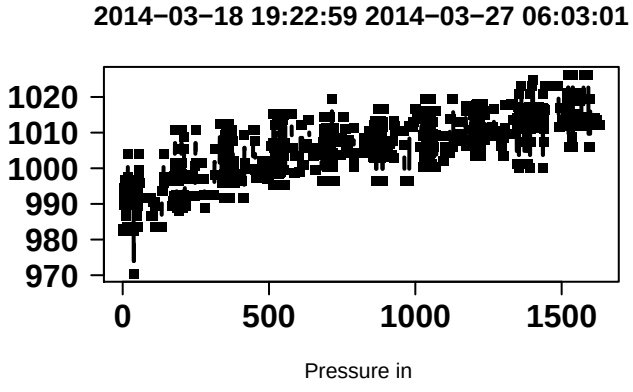

black 0.11 red 0.26
Seawater potential density anomaly
Seawater density − 1000
26.74
26.72
26.70
26.68
26.66
28.35
28.25
28.15
1
2
3
4
5
6
7
8

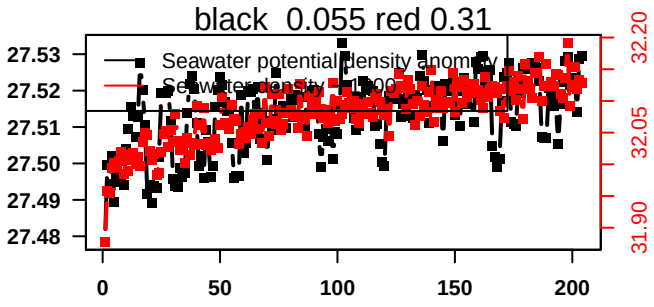

lovbio010b_054_03_06.txt
62
61
60
59
58
57
56
55
0
10
20
30
40
CDOM, [CN] / Points @ x s

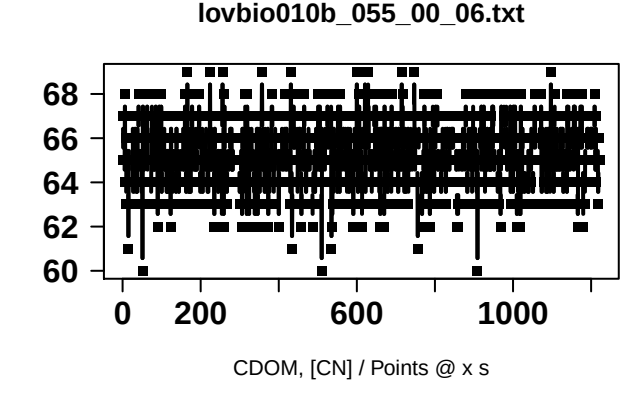

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

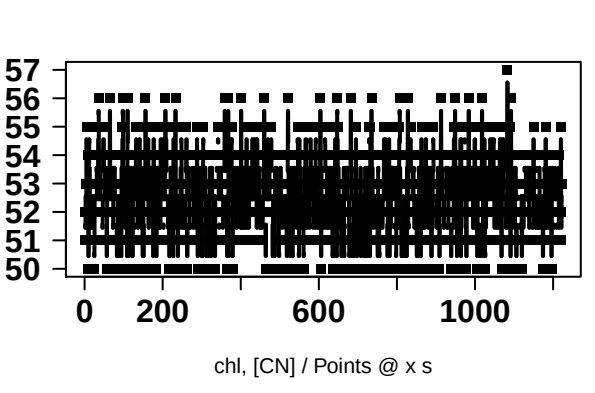

nb days: 0.2 freq: 7 min
130
120
110
100
90
0
10
20
30
40
beta, [CN] / Points @ x s

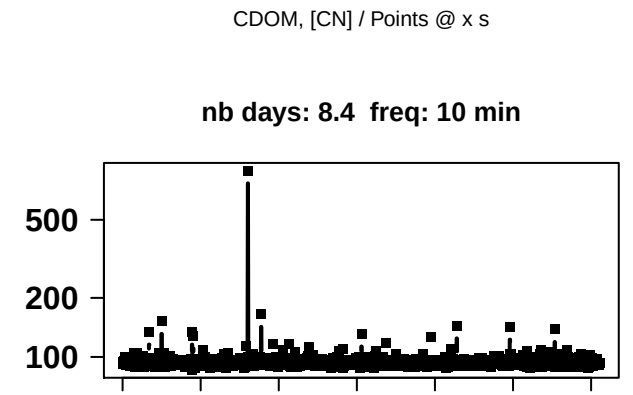

nb days: 0.2 freq: 40 min
0.368
0.367
0.366
0.365
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

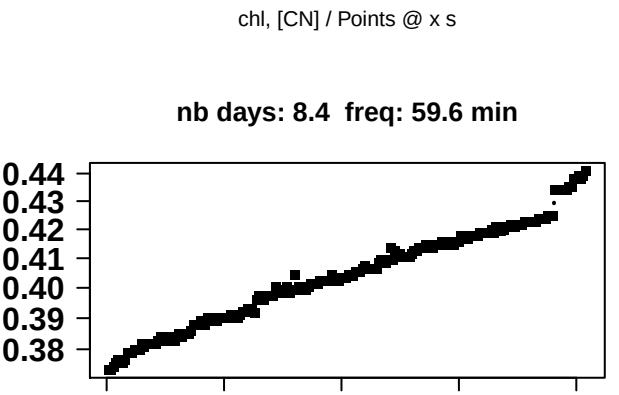

2014−03−18 19:22:59 2014−03−27 06:03:01
1020
1010
1000
990
980
970
0
500
1000
1500
Pressure in

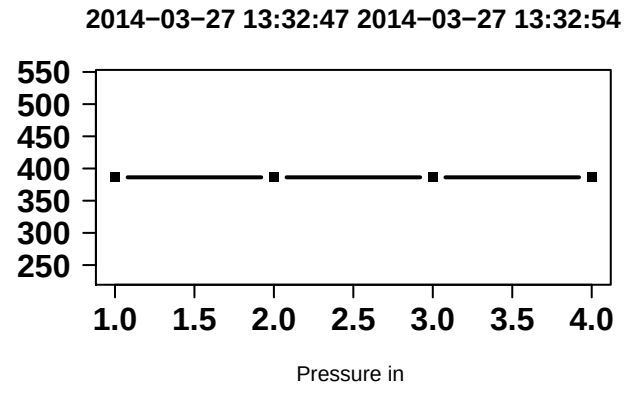

black 0.055 red 0.31
Seawater potential density anomaly
27.53
27.52
27.51
27.50
27.49
27.48
32.20
32.05
31.90
0
50
100
150
200

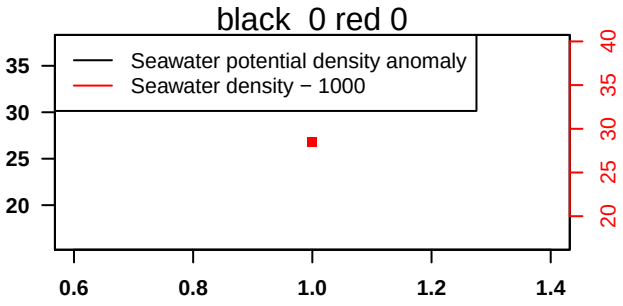

lovbio010b_055_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

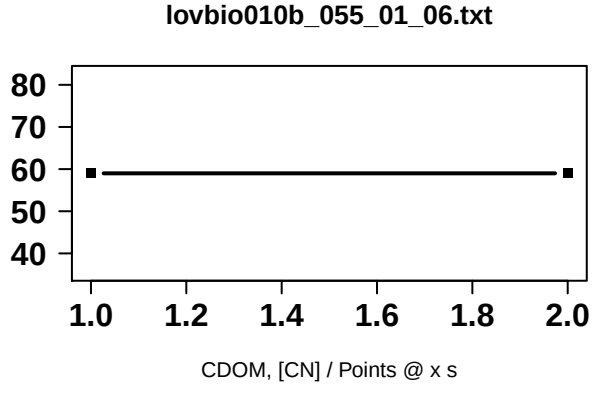

57
56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

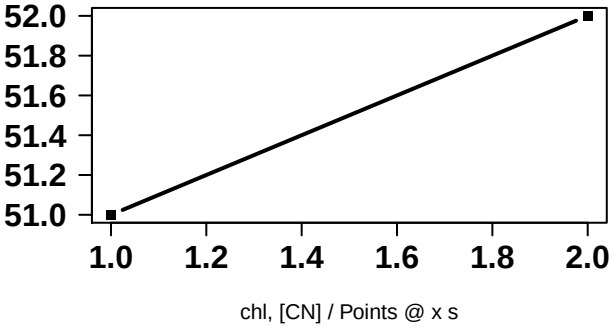

nb days: 8.4 freq: 10 min
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

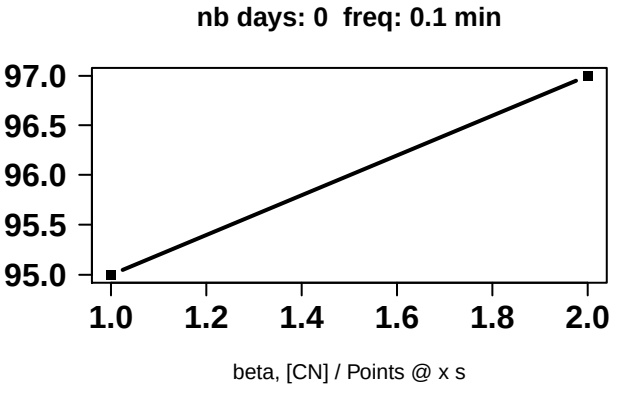

nb days: 8.4 freq: 59.6 min
0.44
0.43
0.42
0.41
0.40
0.39
0.38
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

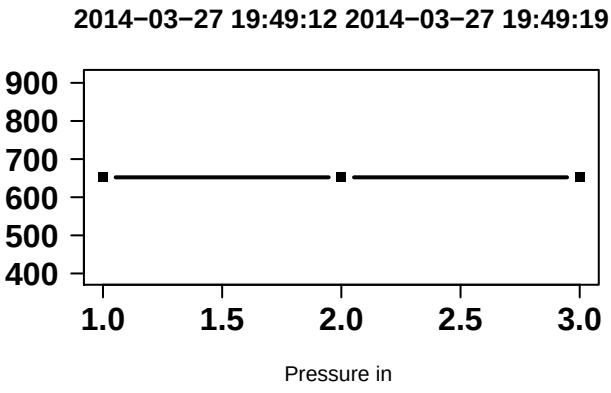

2014−03−27 13:32:47 2014−03−27 13:32:54
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

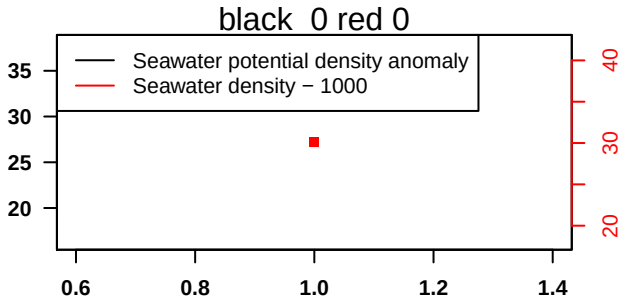

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

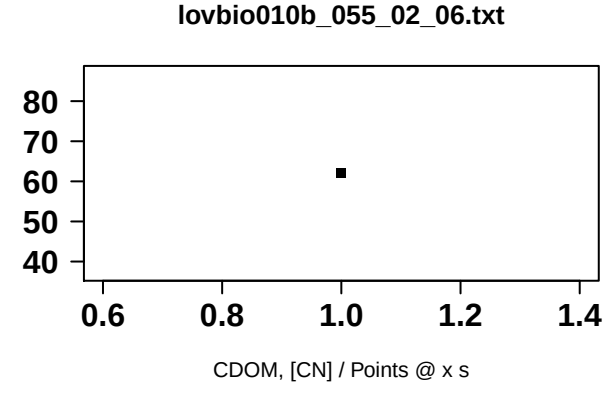

lovbio010b_055_01_06.txt
80
70
60
50
40
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

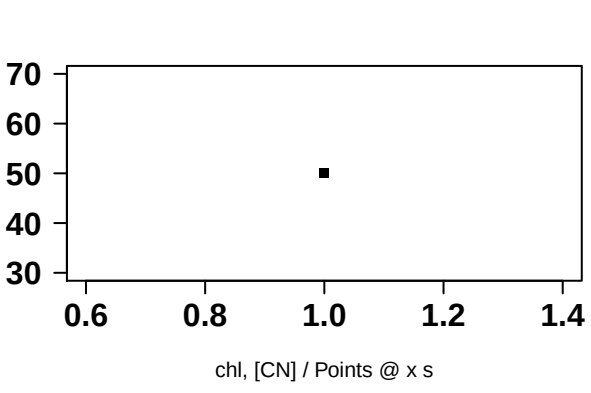

52.0
51.8
51.6
51.4
51.2
51.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

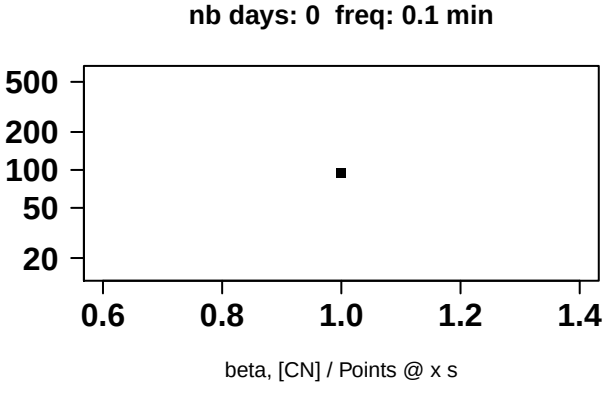

nb days: 0 freq: 0.1 min
97.0
96.5
96.0
95.5
95.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

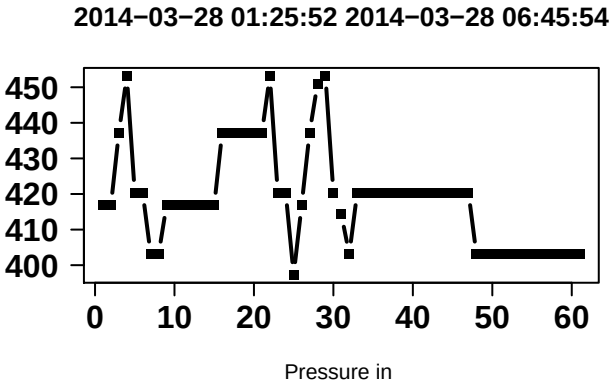

2014−03−27 19:49:12 2014−03−27 19:49:19
900
800
700
600
500
400
1.0
1.5
2.0
2.5
3.0
Pressure in

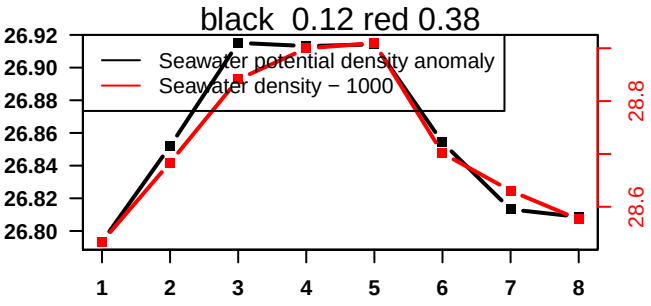

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

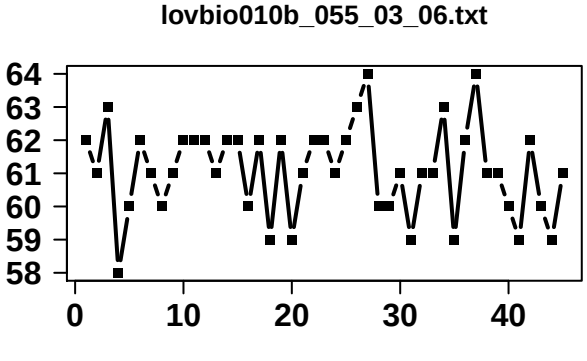

lovbio010b_055_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

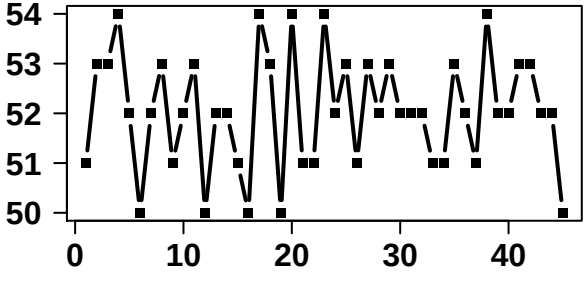

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

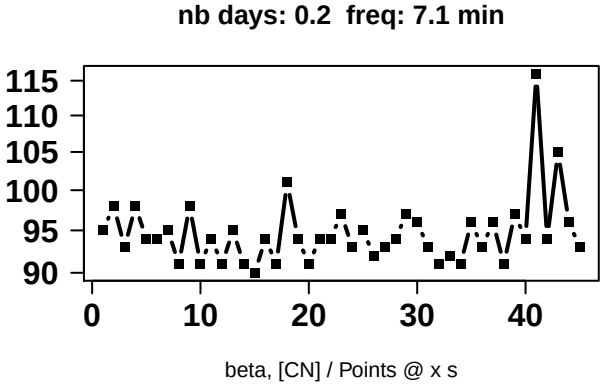

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

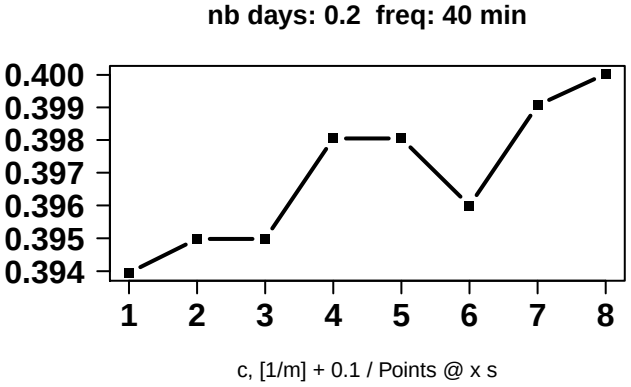

2014−03−28 01:25:52 2014−03−28 06:45:54
450
440
430
420
410
400
0
10
20
30
40
50
60
Pressure in

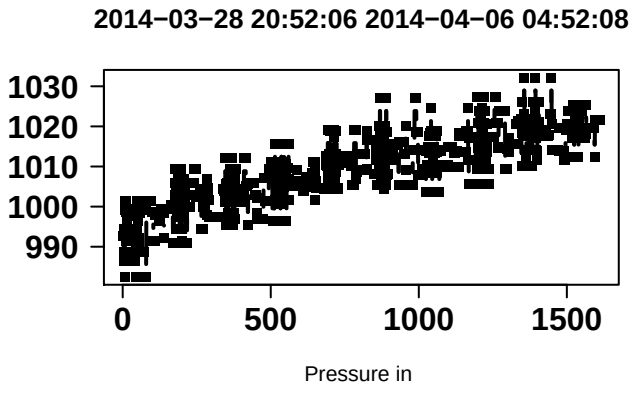

black 0.12 red 0.38
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
26.84
26.82
26.80
28.8
28.6
1
2
3
4
5
6
7
8

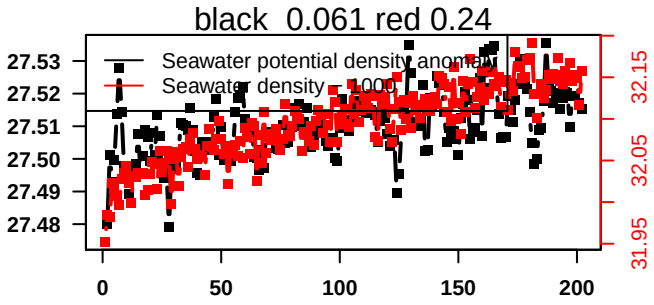

lovbio010b_055_03_06.txt
64
63
62
61
60
59
58
0
10
20
30
40
CDOM, [CN] / Points @ x s

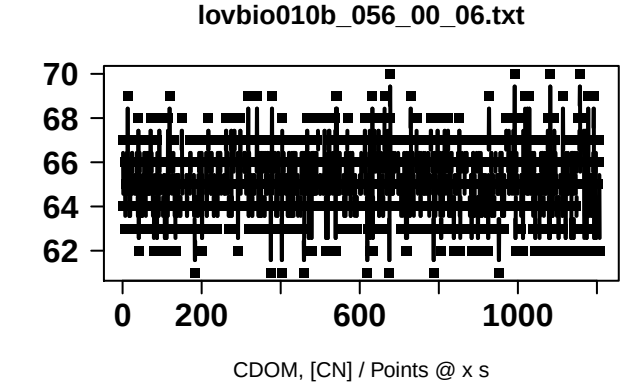

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

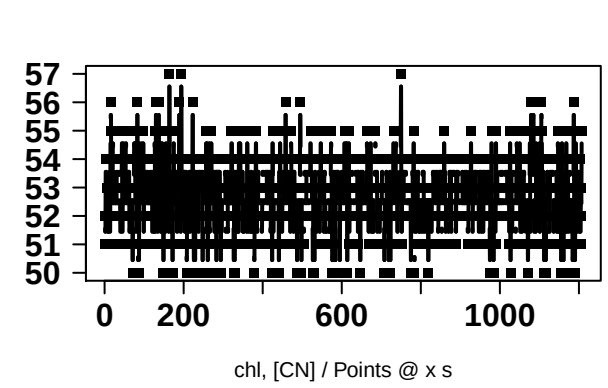

nb days: 0.2 freq: 7.1 min
115
110
105
100
95
90
0
10
20
30
40
beta, [CN] / Points @ x s

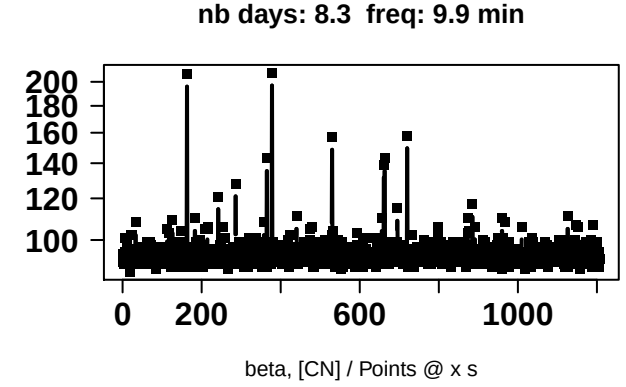

nb days: 0.2 freq: 40 min
0.400
0.399
0.398
0.397
0.396
0.395
0.394
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

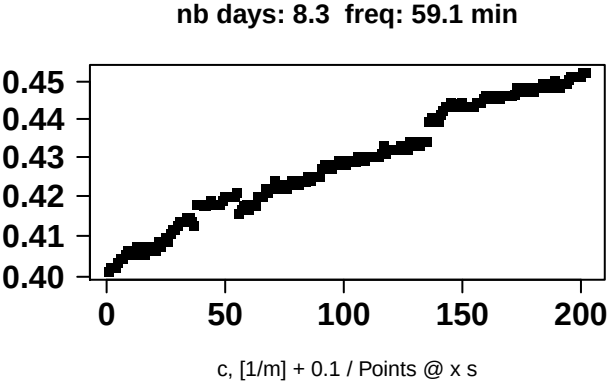

2014−03−28 20:52:06 2014−04−06 04:52:08
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

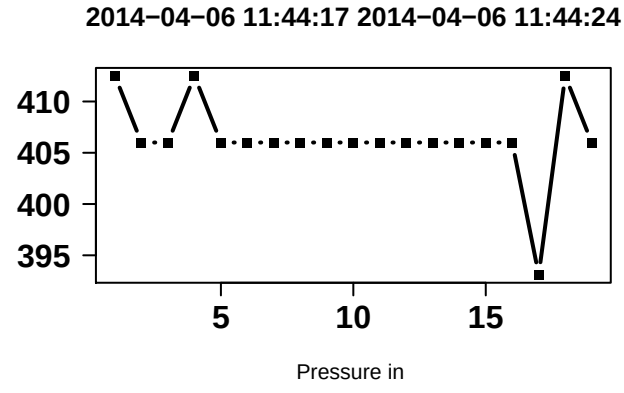

black 0.061 red 0.24
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
27.48
32.15
32.05
31.95
0
50
100
150
200

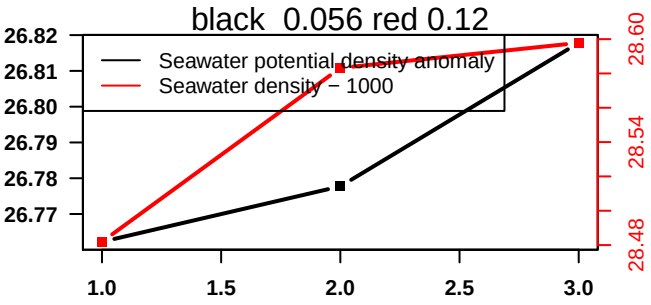

lovbio010b_056_00_06.txt
70
68
66
64
62
0
200
600
1000
CDOM, [CN] / Points @ x s

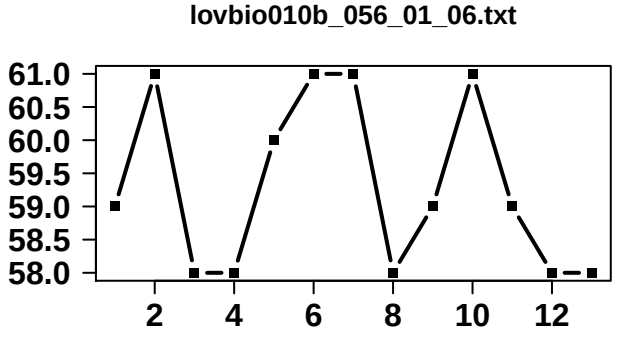

57
56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

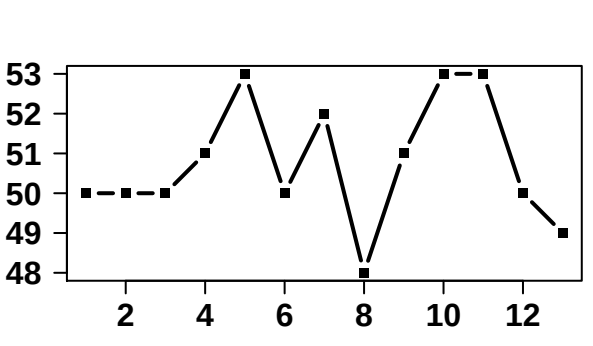

nb days: 8.3 freq: 9.9 min
200
180
160
140
120
100
0
200
600
1000
beta, [CN] / Points @ x s

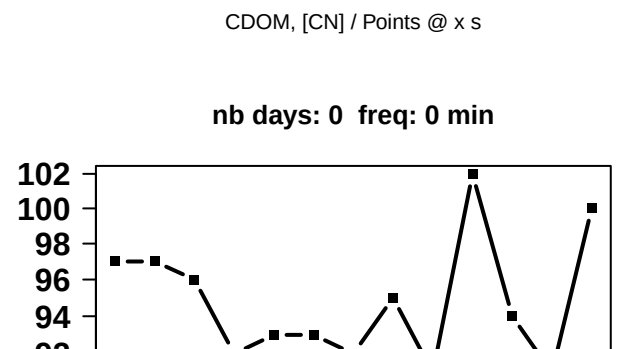

nb days: 8.3 freq: 59.1 min
0.45
0.44
0.43
0.42
0.41
0.40
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

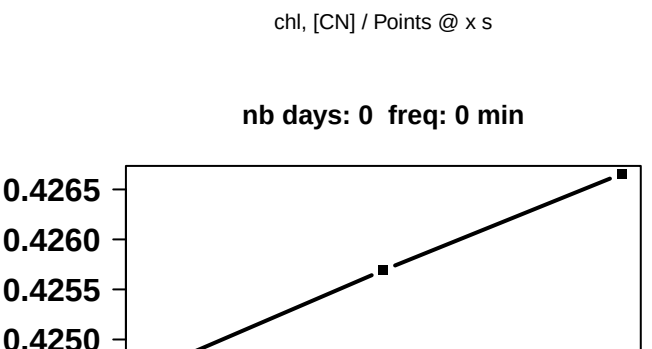

2014−04−06 11:44:17 2014−04−06 11:44:24
410
405
400
395
5
10
15
Pressure in

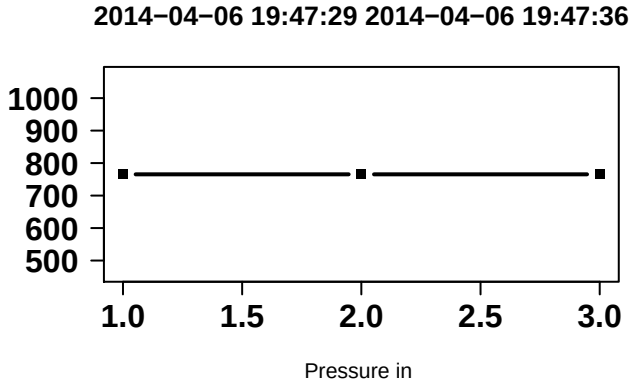

black 0.056 red 0.12
Seawater potential density anomaly
Seawater density − 1000
26.82
26.81
26.80
26.79
26.78
26.77
28.60
28.54
28.48
1.0
1.5
2.0
2.5
3.0

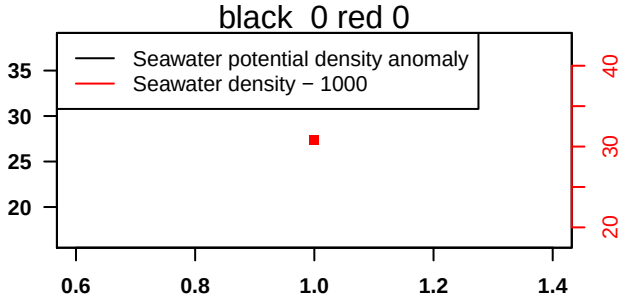

lovbio010b_056_01_06.txt
61.0
60.5
60.0
59.5
59.0
58.5
58.0
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

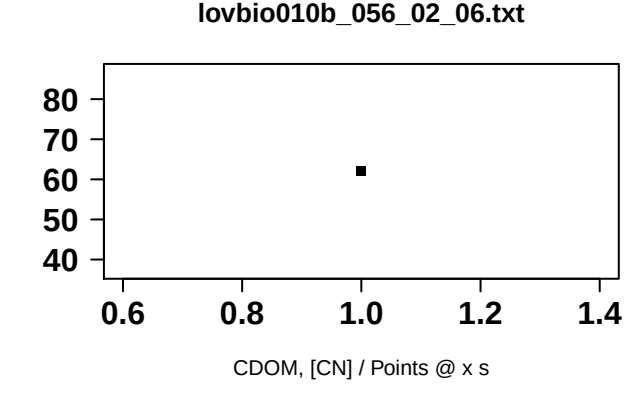

53
52
51
50
49
48
2
4
6
8
10
12
chl, [CN] / Points @ x s

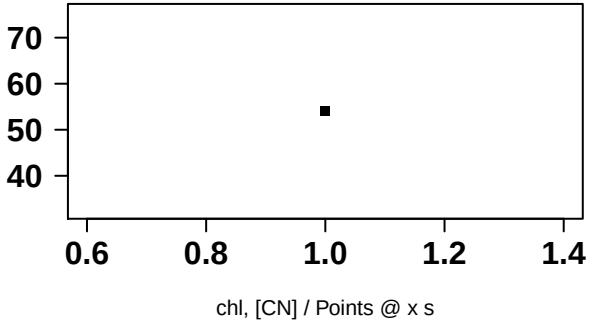

nb days: 0 freq: 0 min
102
100
98
96
94
92
2
4
6
8
10
12
beta, [CN] / Points @ x s

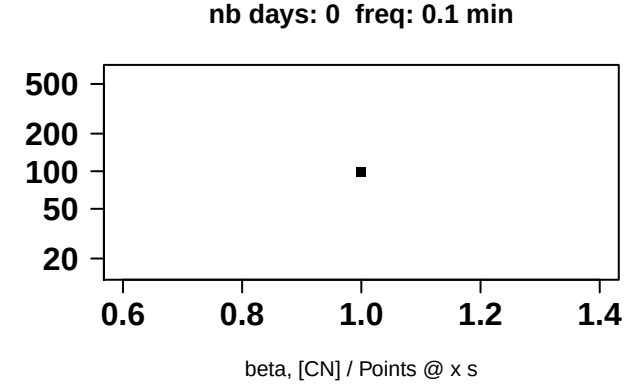

nb days: 0 freq: 0 min
0.4265
0.4260
0.4255
0.4250
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

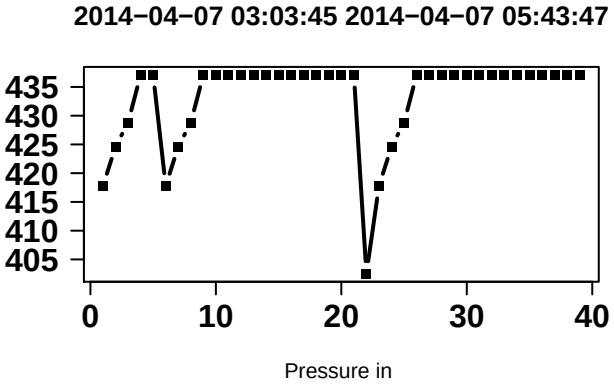

2014−04−06 19:47:29 2014−04−06 19:47:36
1000
900
800
700
600
500
1.0
1.5
2.0
2.5
3.0
Pressure in

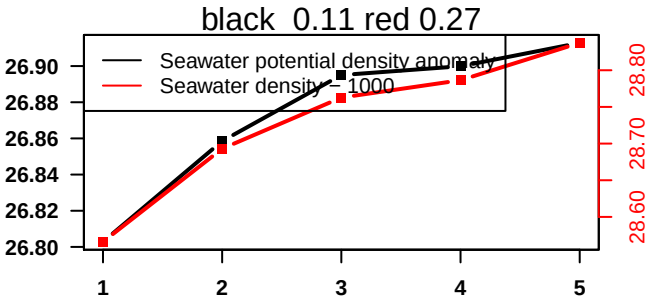

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

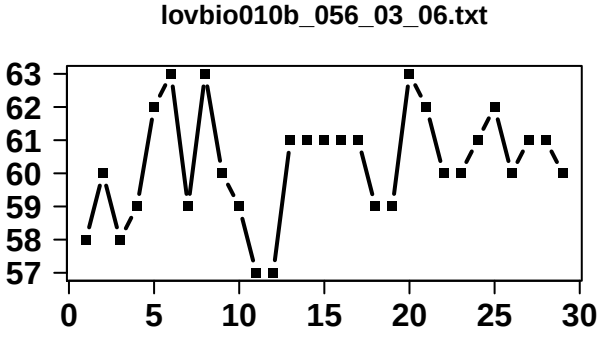

lovbio010b_056_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

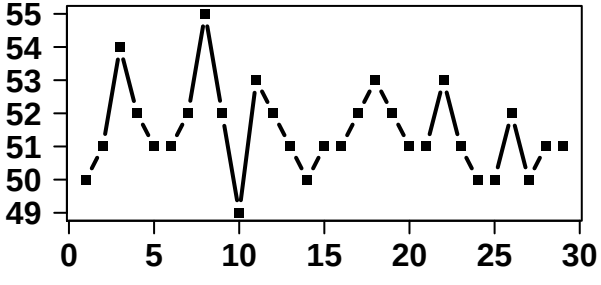

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

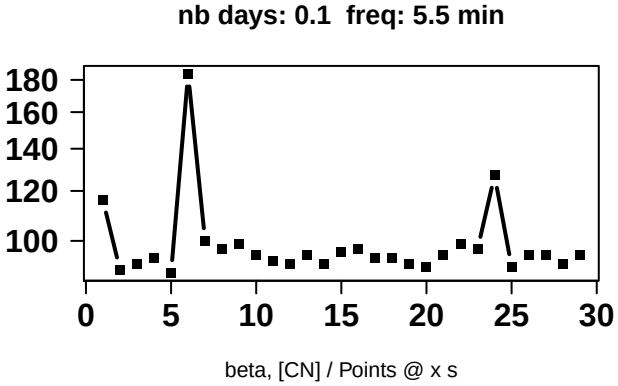

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

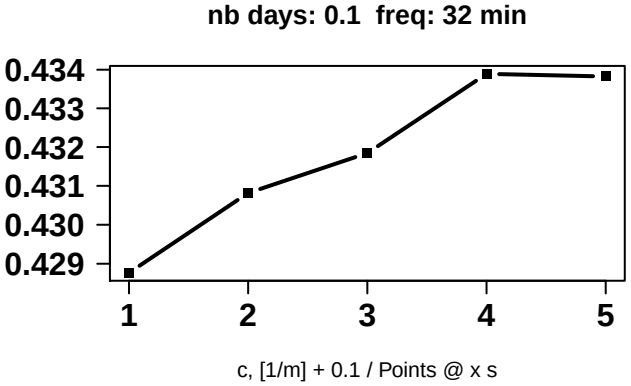

2014−04−07 03:03:45 2014−04−07 05:43:47
435
430
425
420
415
410
405
0
10
20
30
40
Pressure in

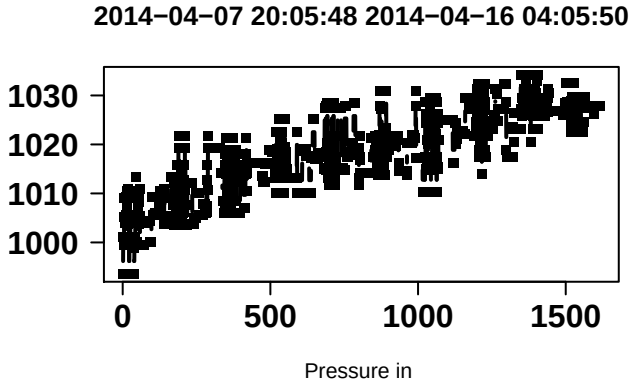

black 0.11 red 0.27
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
26.80
28.80
28.70
28.60
1
2
3
4
5

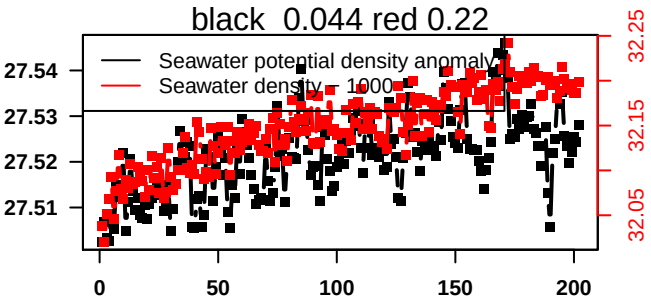

lovbio010b_056_03_06.txt
63
62
61
60
59
58
57
0
5
10
15
20
25
30
CDOM, [CN] / Points @ x s

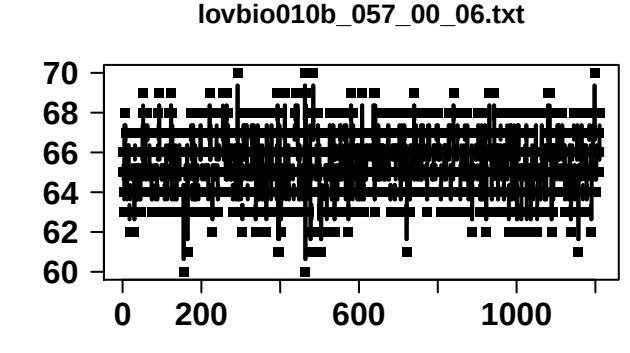

55
54
53
52
51
50
49
0
5
10
15
20
25
30
chl, [CN] / Points @ x s

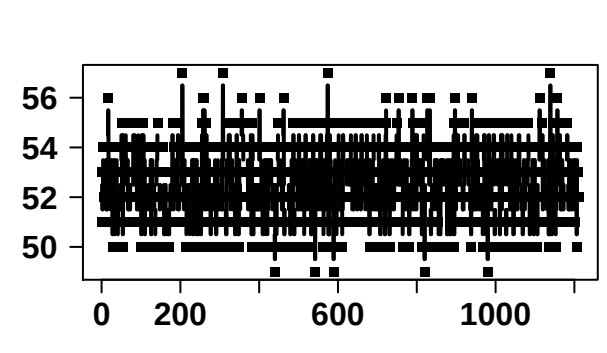

nb days: 0.1 freq: 5.5 min
180
160
140
120
100
0
5
10
15
20
25
30
beta, [CN] / Points @ x s

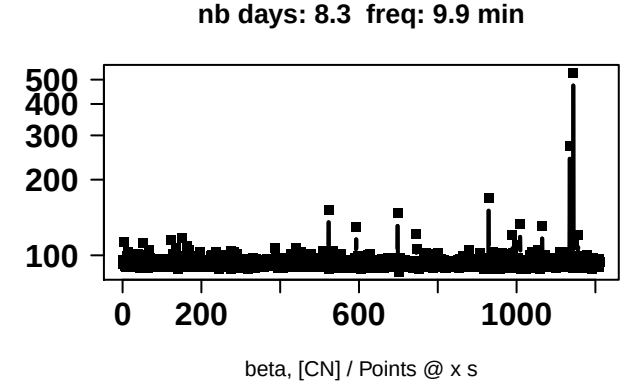

nb days: 0.1 freq: 32 min
0.434
0.433
0.432
0.431
0.430
0.429
1
2
3
4
5
c, [1/m] + 0.1 / Points @ x s

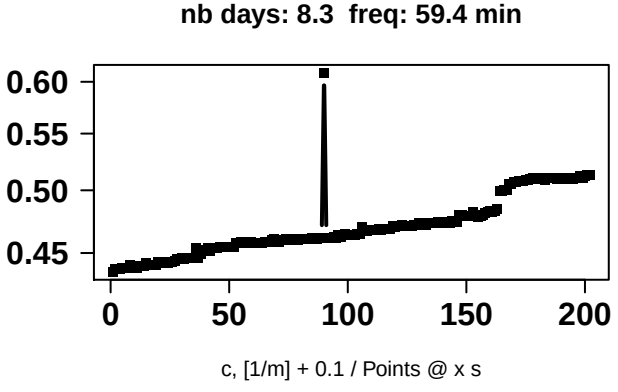

2014−04−07 20:05:48 2014−04−16 04:05:50
1030
1020
1010
1000
0
500
1000
1500
Pressure in

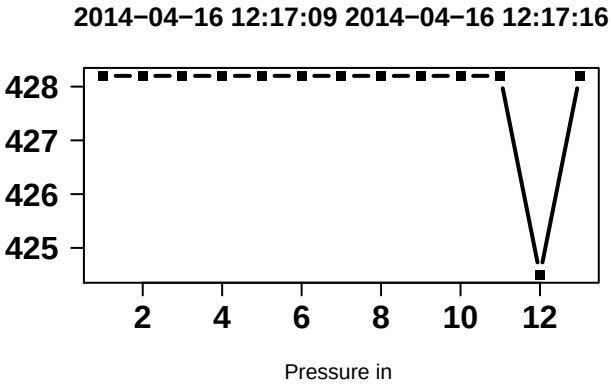

black 0.044 red 0.22
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
32.25
32.15
32.05
0
50
100
150
200

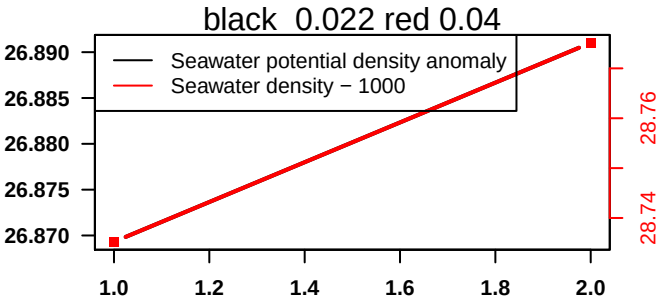

lovbio010b_057_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

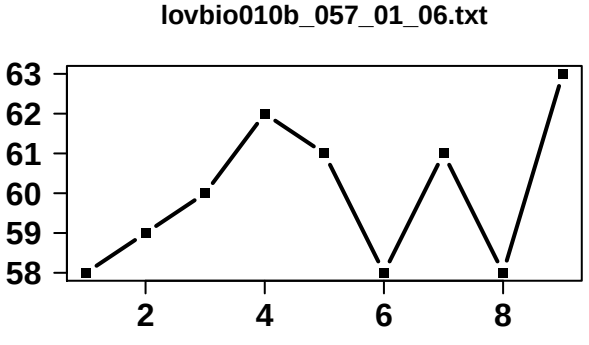

56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

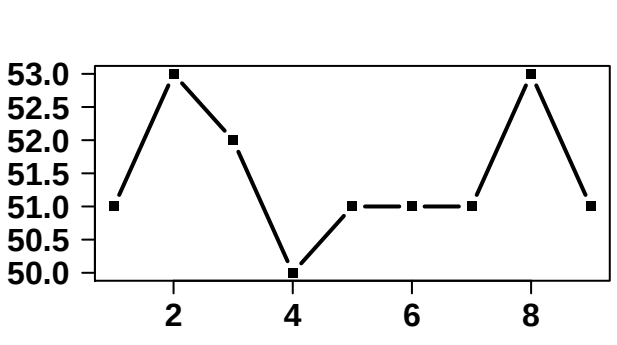

nb days: 8.3 freq: 9.9 min
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

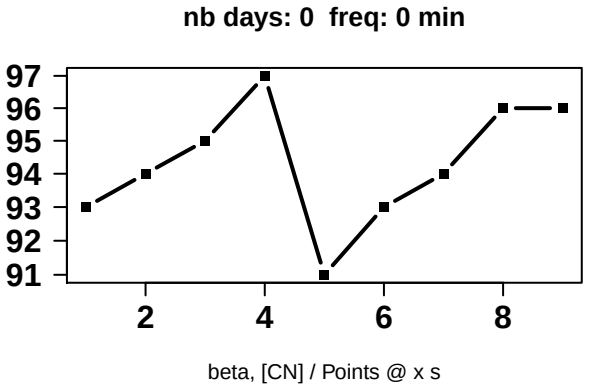

nb days: 8.3 freq: 59.4 min
0.60
0.55
0.50
0.45
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

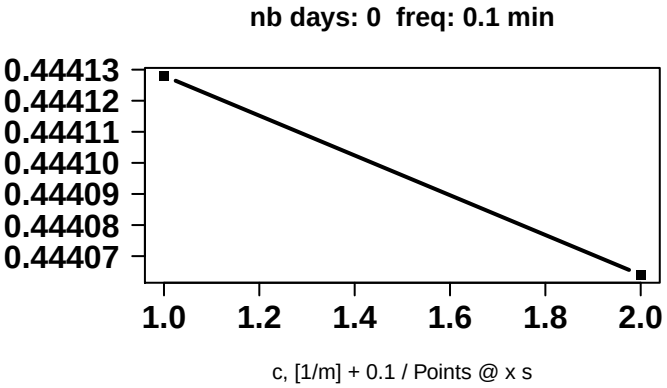

2014−04−16 12:17:09 2014−04−16 12:17:16
428
427
426
425
2
4
6
8
10
12
Pressure in

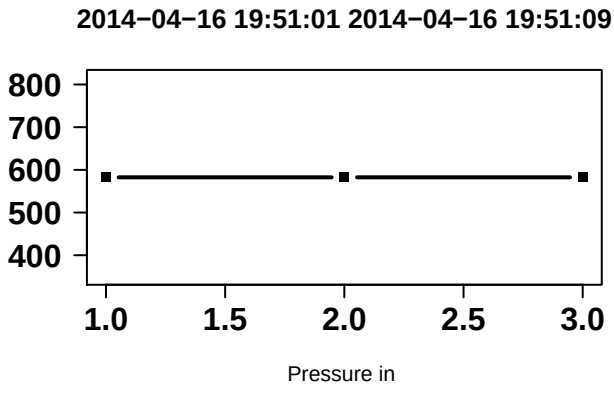

black 0.022 red 0.04
Seawater potential density anomaly
Seawater density − 1000
26.890
26.885
26.880
26.875
26.870
28.76
28.74
1.0
1.2
1.4
1.6
1.8
2.0

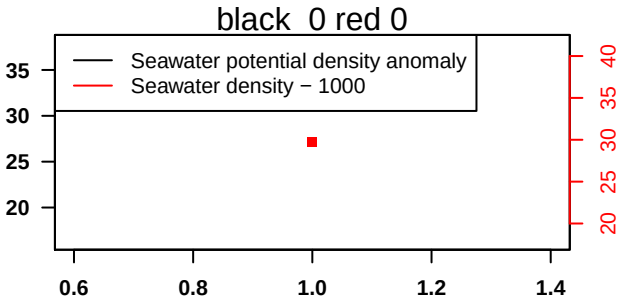

lovbio010b_057_01_06.txt
63
62
61
60
59
58
2
4
6
8
CDOM, [CN] / Points @ x s

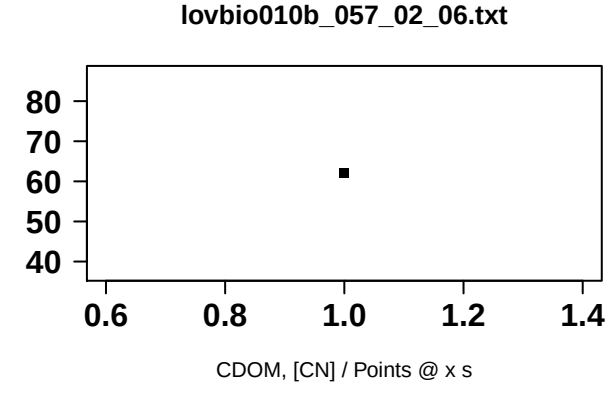

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

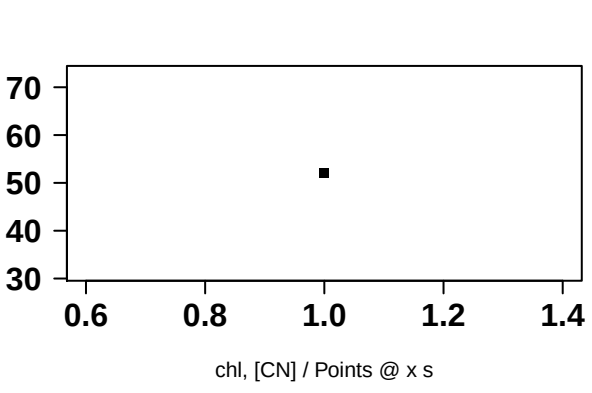

nb days: 0 freq: 0 min
97
96
95
94
93
92
91
2
4
6
8
beta, [CN] / Points @ x s

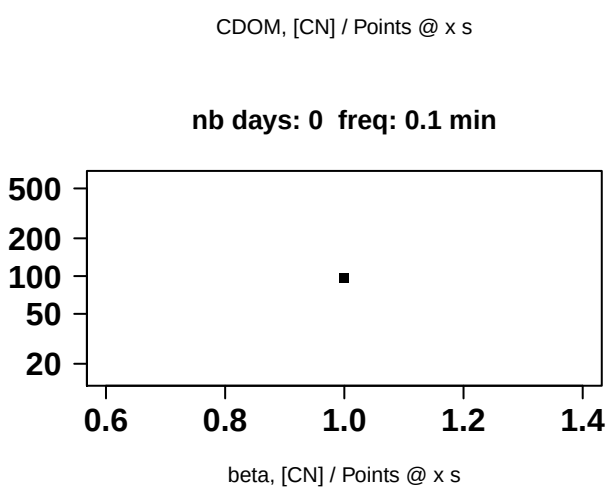

nb days: 0 freq: 0.1 min
0.44413
0.44412
0.44411
0.44410
0.44409
0.44408
0.44407
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

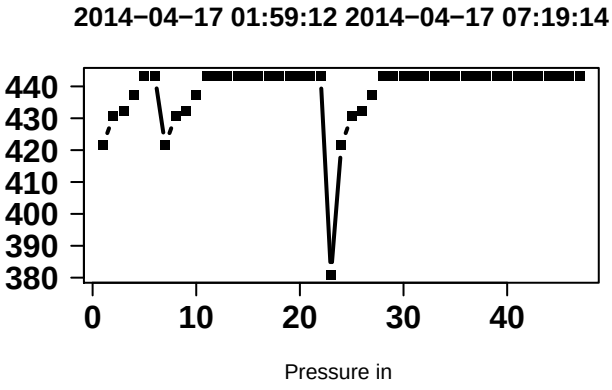

2014−04−16 19:51:01 2014−04−16 19:51:09
800
700
600
500
400
1.0
1.5
2.0
2.5
3.0
Pressure in

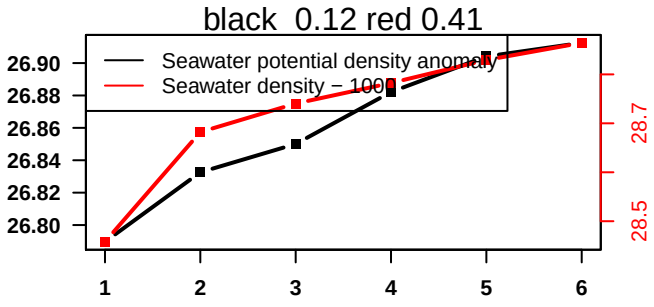

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

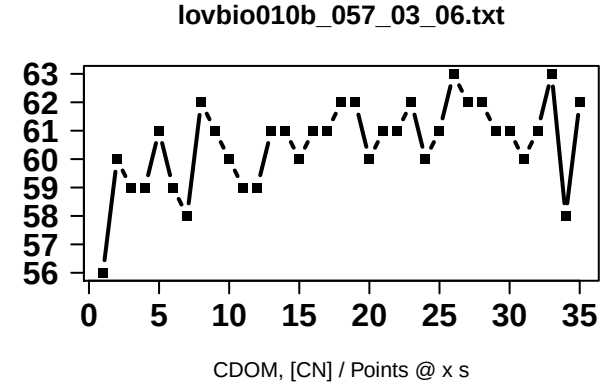

lovbio010b_057_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

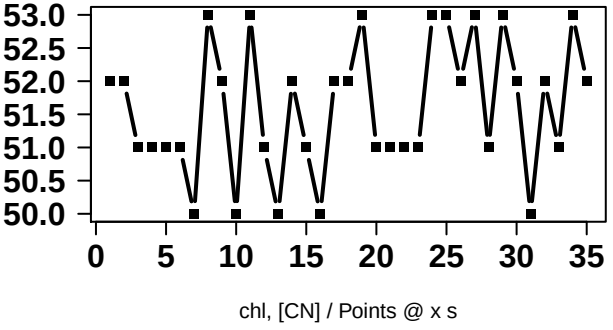

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

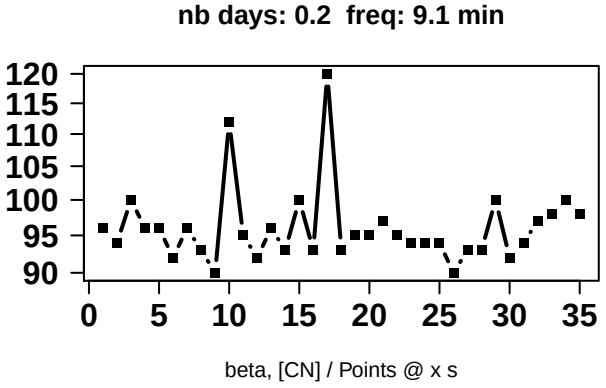

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

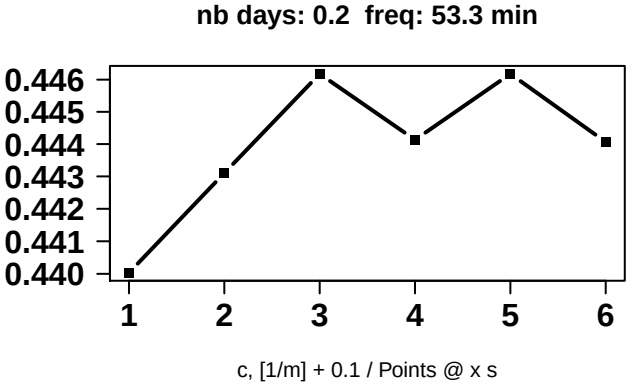

2014−04−17 01:59:12 2014−04−17 07:19:14
440
430
420
410
400
390
380
0
10
20
30
40
Pressure in

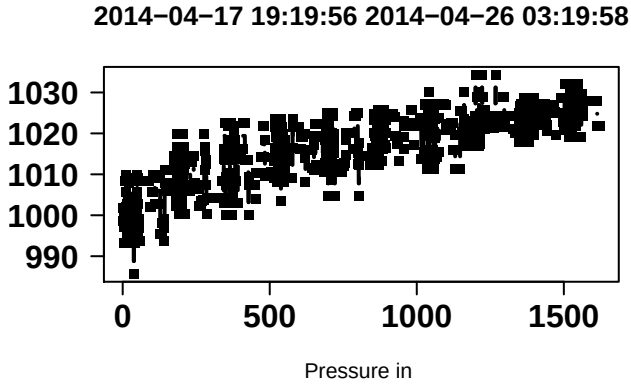

black 0.12 red 0.41
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
26.80
28.7
28.5
1
2
3
4
5
6

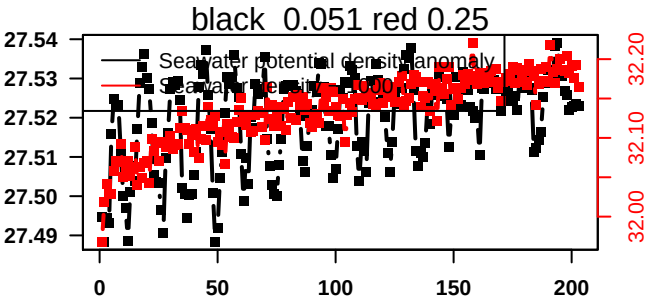

lovbio010b_057_03_06.txt
63
62
61
60
59
58
57
56
0
5
10
15
20
25
30
35
CDOM, [CN] / Points @ x s

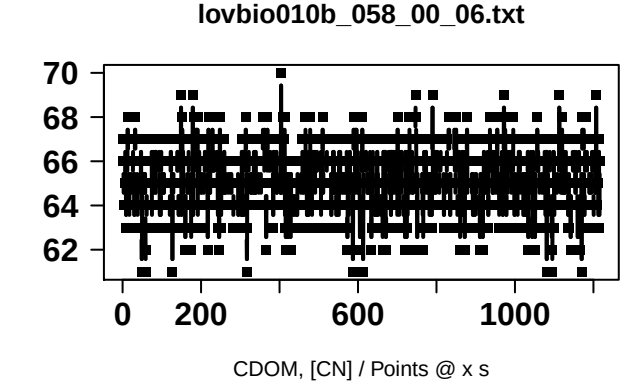

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
5
10
15
20
25
30
35
chl, [CN] / Points @ x s

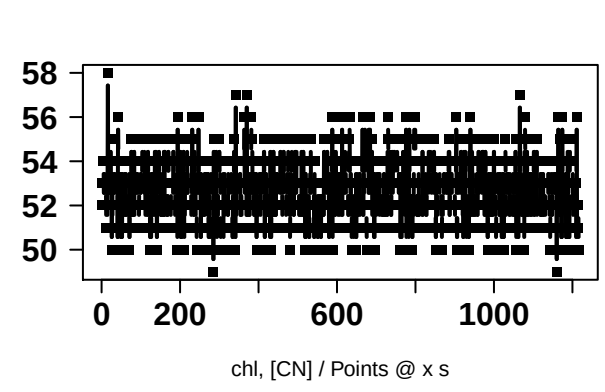

nb days: 0.2 freq: 9.1 min
120
115
110
105
100
95
90
0
5
10
15
20
25
30
35
beta, [CN] / Points @ x s

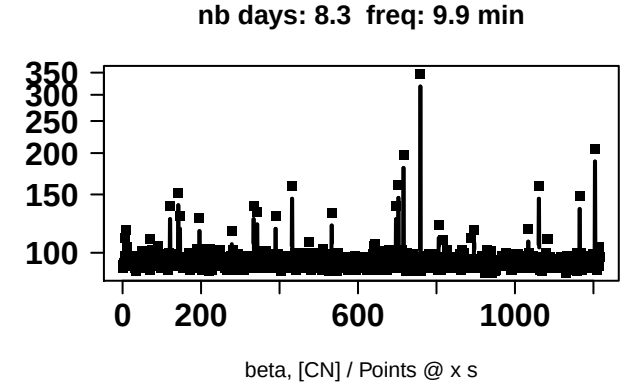

nb days: 0.2 freq: 53.3 min
0.446
0.445
0.444
0.443
0.442
0.441
0.440
1
2
3
4
5
6
c, [1/m] + 0.1 / Points @ x s

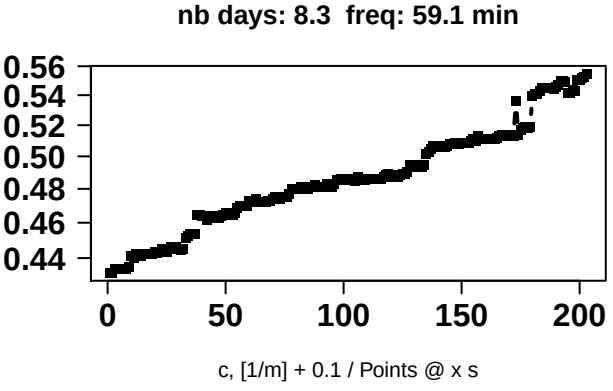

2014−04−17 19:19:56 2014−04−26 03:19:58
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

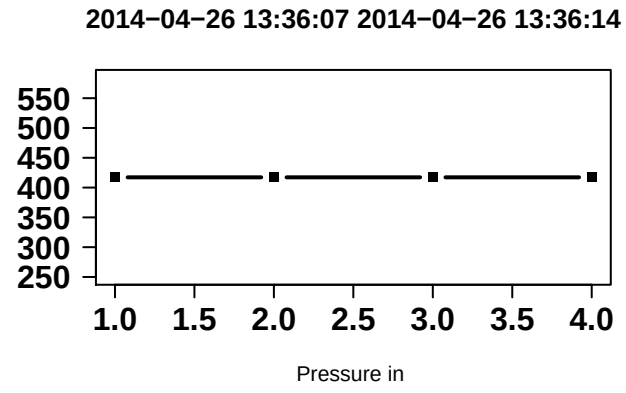

black 0.051 red 0.25
Seawater potential density anomaly
27.54
27.53
27.52
27.51
27.50
27.49
32.20
32.10
32.00
0
50
100
150
200

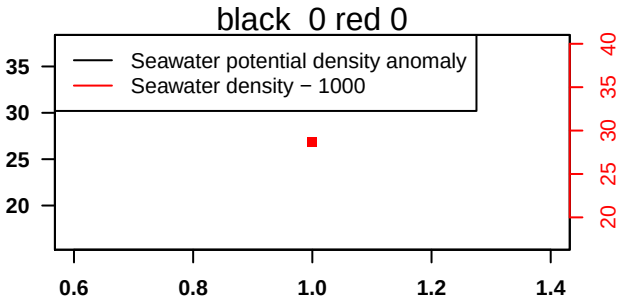

lovbio010b_058_00_06.txt
70
68
66
64
62
0
200
600
1000
CDOM, [CN] / Points @ x s

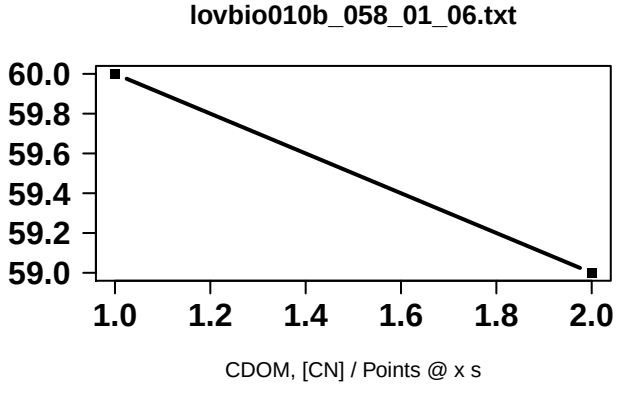

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

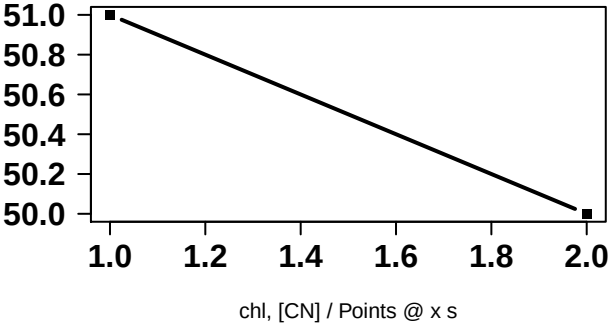

nb days: 8.3 freq: 9.9 min
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

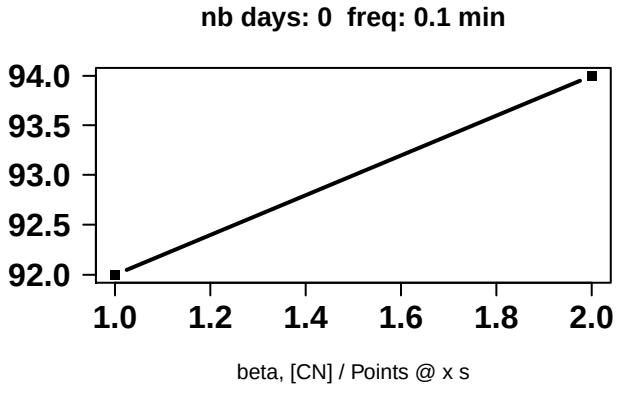

nb days: 8.3 freq: 59.1 min
0.56
0.54
0.52
0.50
0.48
0.46
0.44
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

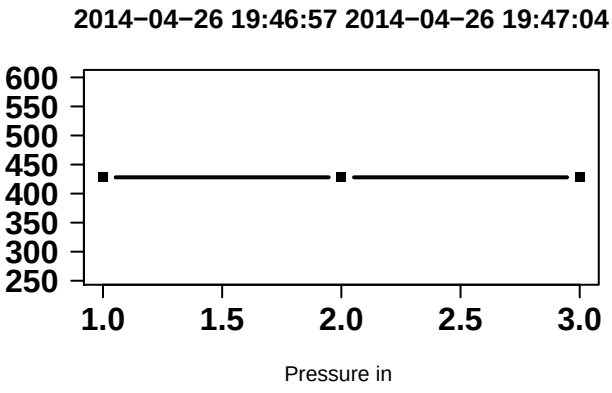

2014−04−26 13:36:07 2014−04−26 13:36:14
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

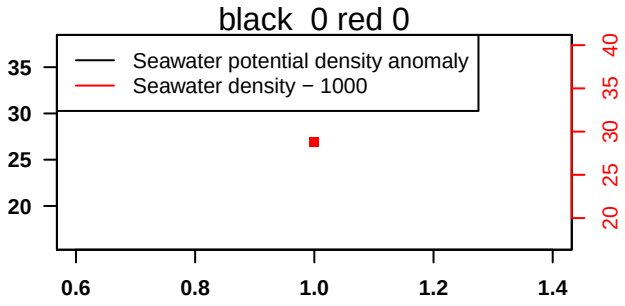

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

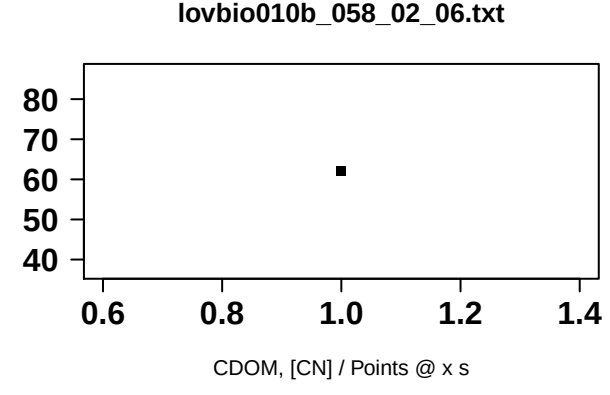

lovbio010b_058_01_06.txt
60.0
59.8
59.6
59.4
59.2
59.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

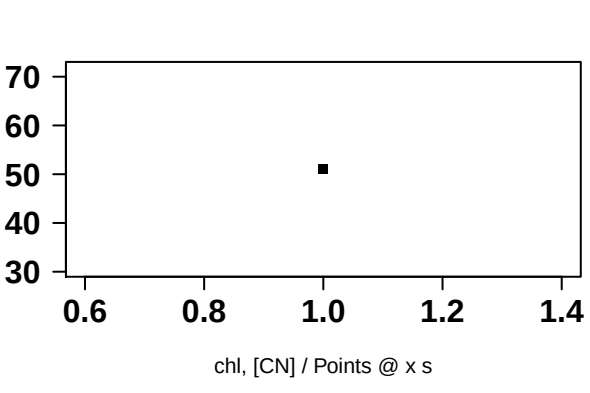

51.0
50.8
50.6
50.4
50.2
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

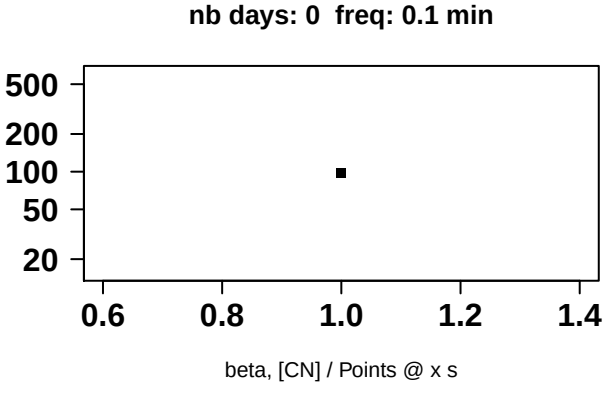

nb days: 0 freq: 0.1 min
94.0
93.5
93.0
92.5
92.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

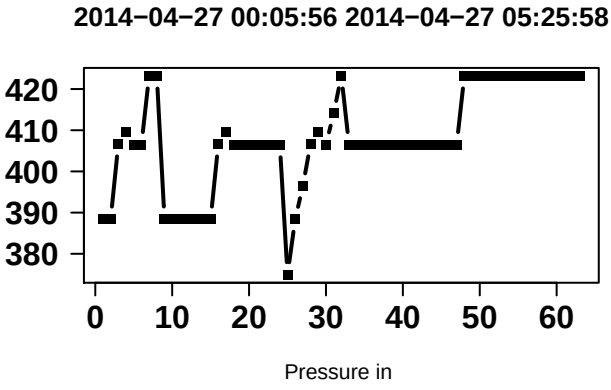

2014−04−26 19:46:57 2014−04−26 19:47:04
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

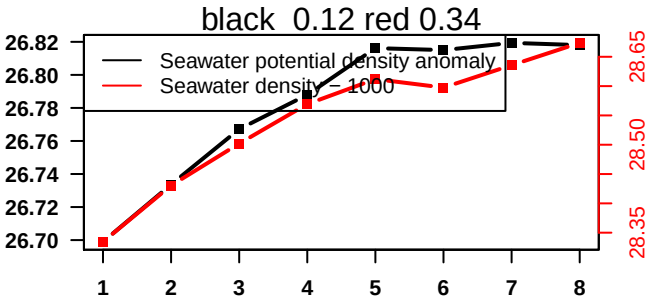

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

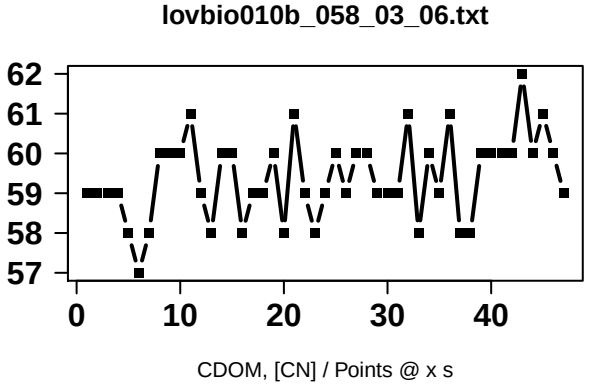

lovbio010b_058_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

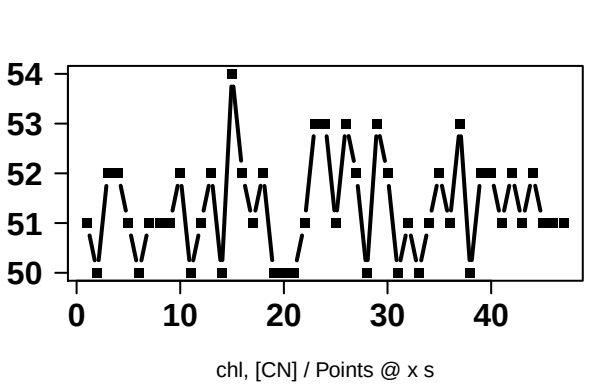

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

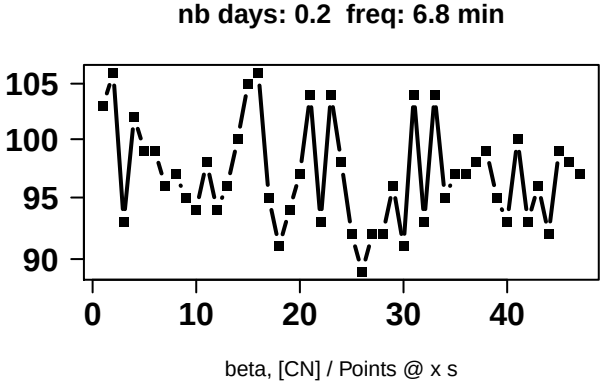

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

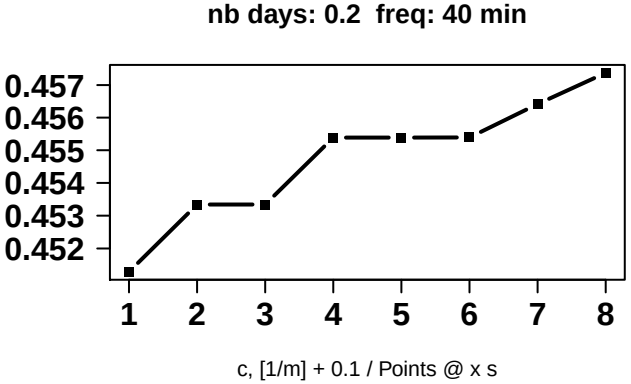

2014−04−27 00:05:56 2014−04−27 05:25:58
420
410
400
390
380
0
10
20
30
40
50
60
Pressure in

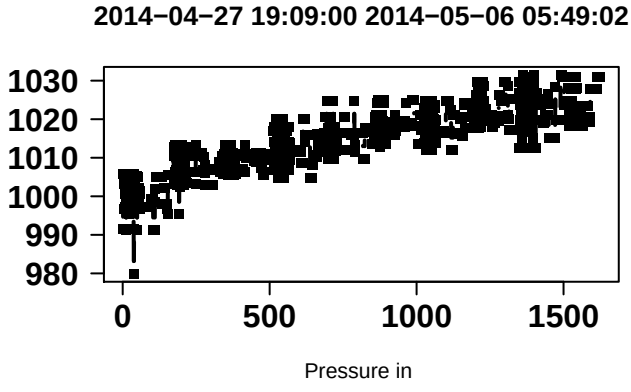

black 0.12 red 0.34
Seawater potential density anomaly
Seawater density − 1000
26.82
26.80
26.78
26.76
26.74
26.72
26.70
28.65
28.50
28.35
1
2
3
4
5
6
7
8

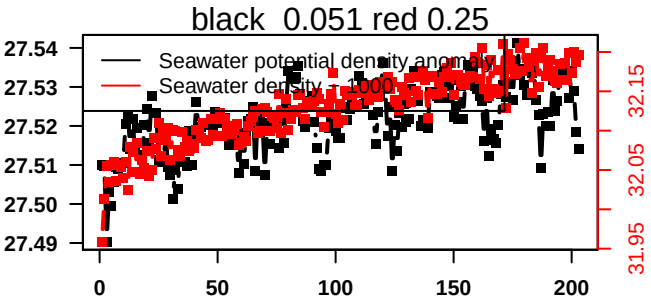

lovbio010b_058_03_06.txt
62
61
60
59
58
57
0
10
20
30
40
CDOM, [CN] / Points @ x s

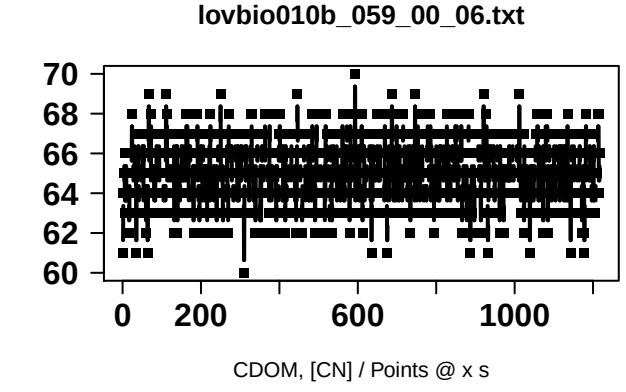

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

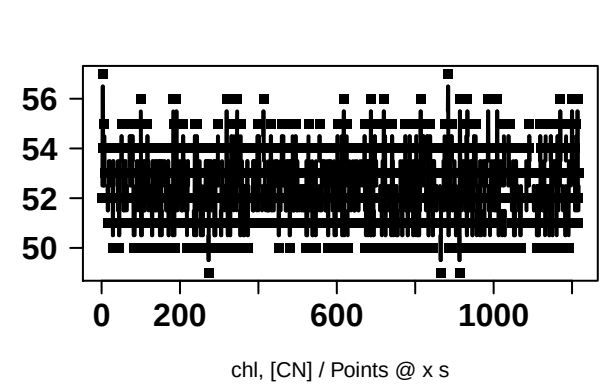

nb days: 0.2 freq: 6.8 min
105
100
95
90
0
10
20
30
40
beta, [CN] / Points @ x s

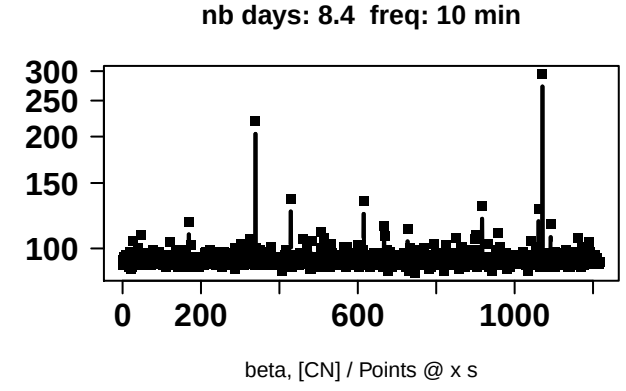

nb days: 0.2 freq: 40 min
0.457
0.456
0.455
0.454
0.453
0.452
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

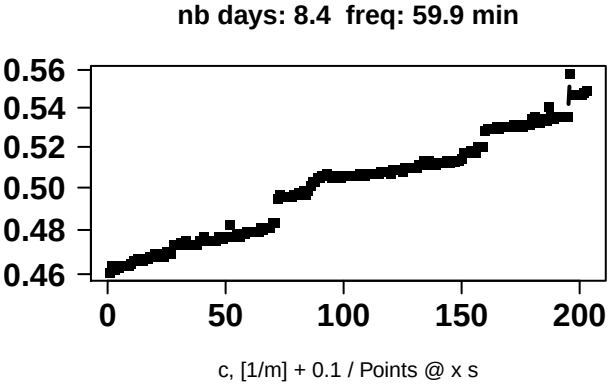

2014−04−27 19:09:00 2014−05−06 05:49:02
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

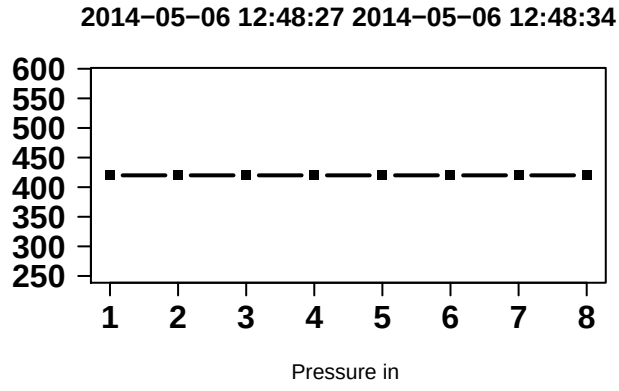

black 0.051 red 0.25
Seawater potential density anomaly
Seawater density − 1000 kg m−3
27.54
27.53
27.52
27.51
27.50
27.49
32.15
32.05
31.95
0
50
100
150
200

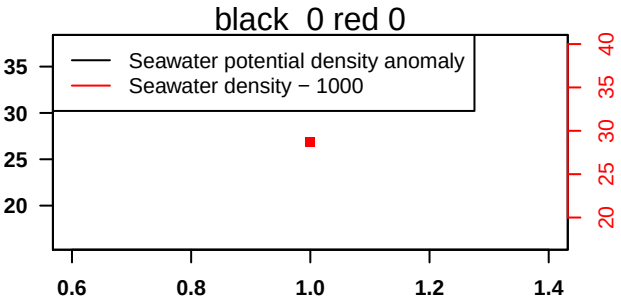

lovbio010b_059_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

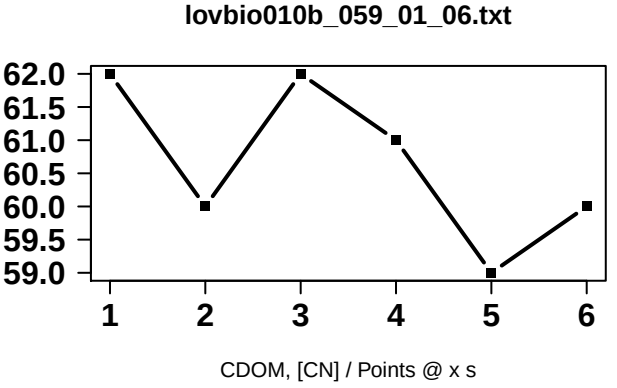

56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

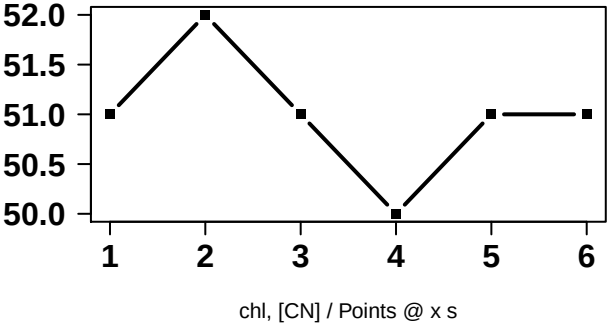

nb days: 8.4 freq: 10 min
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

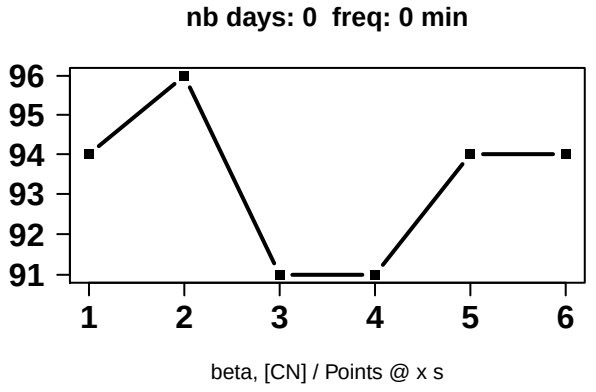

nb days: 8.4 freq: 59.9 min
0.56
0.54
0.52
0.50
0.48
0.46
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

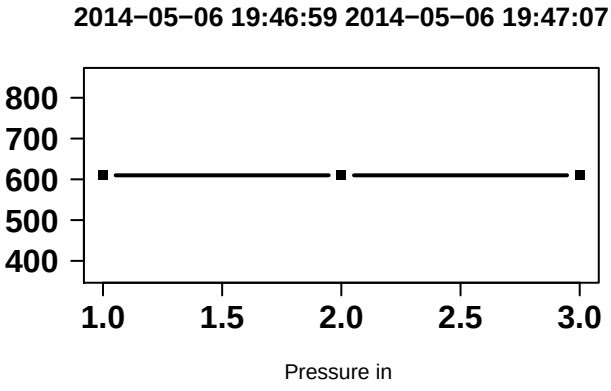

2014−05−06 12:48:27 2014−05−06 12:48:34
600
550
500
450
400
350
300
250
1
2
3
4
5
6
7
8
Pressure in

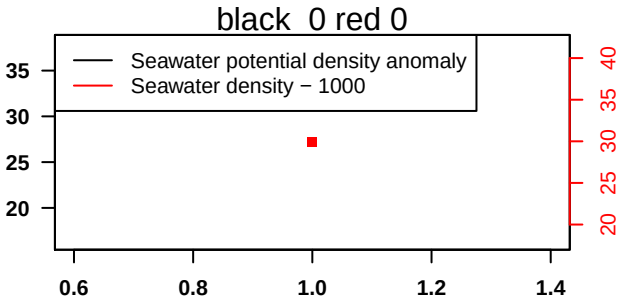

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

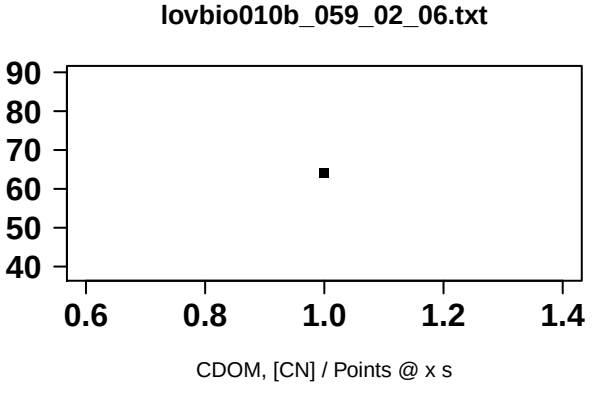

lovbio010b_059_01_06.txt
62.0
61.5
61.0
60.5
60.0
59.5
59.0
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

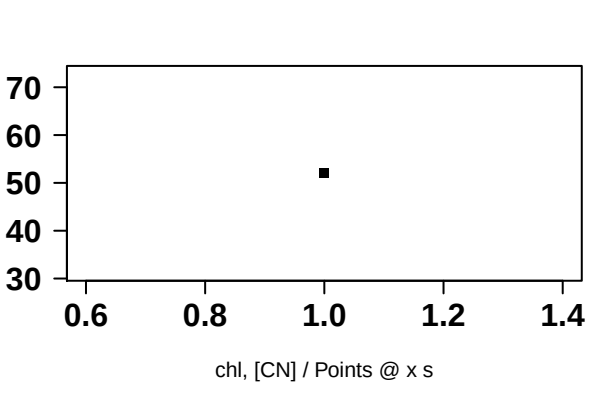

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

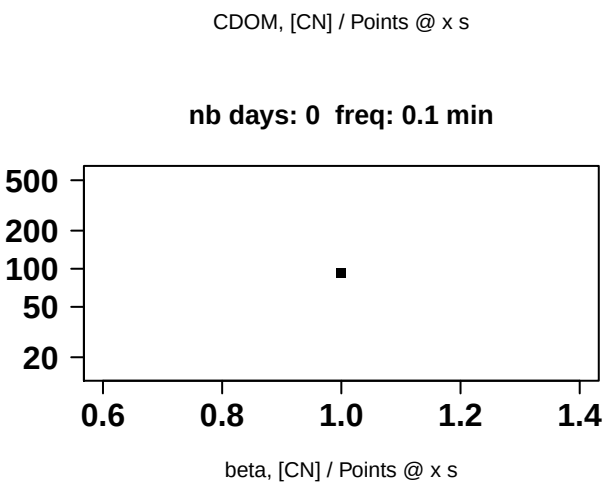

nb days: 0 freq: 0 min
96
95
94
93
92
91
1
2
3
4
5
6
beta, [CN] / Points @ x s

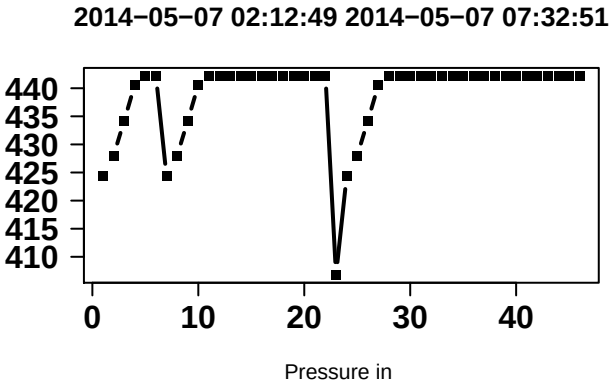

2014−05−06 19:46:59 2014−05−06 19:47:07
800
700
600
500
400
1.0
1.5
2.0
2.5
3.0
Pressure in

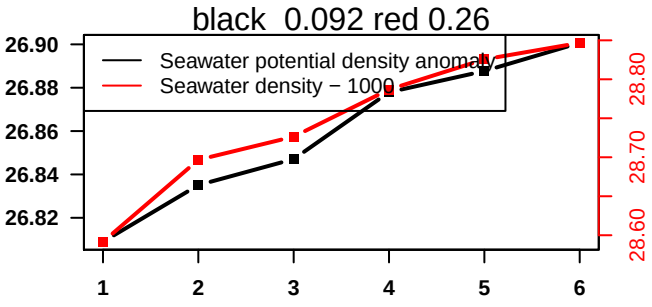

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

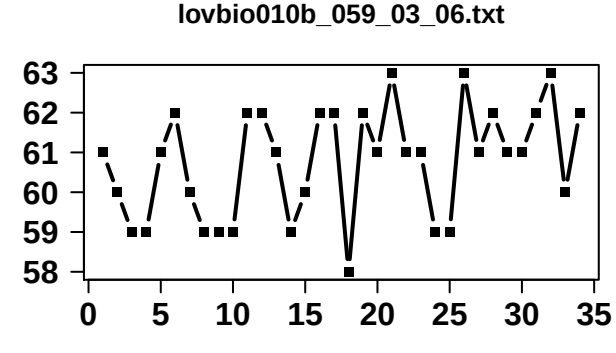

lovbio010b_059_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

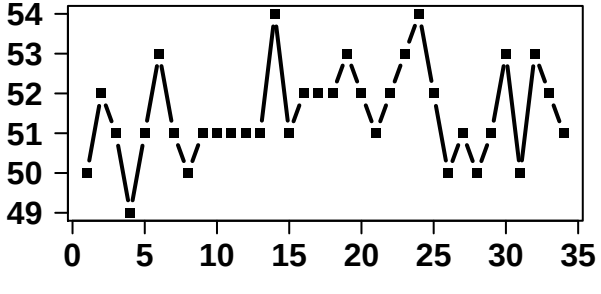

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

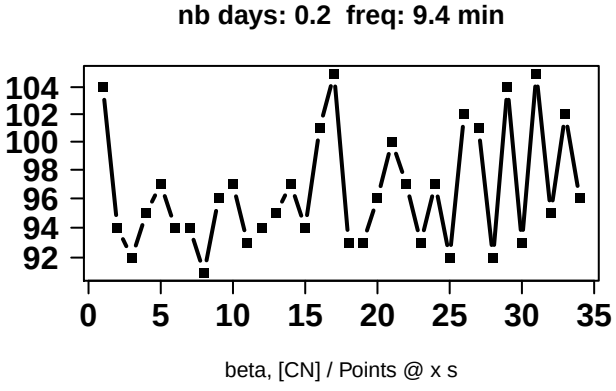

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

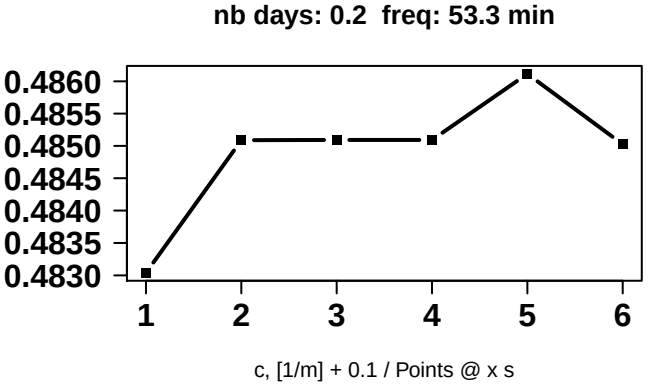

2014−05−07 02:12:49 2014−05−07 07:32:51
440
435
430
425
420
415
410
0
10
20
30
40
Pressure in

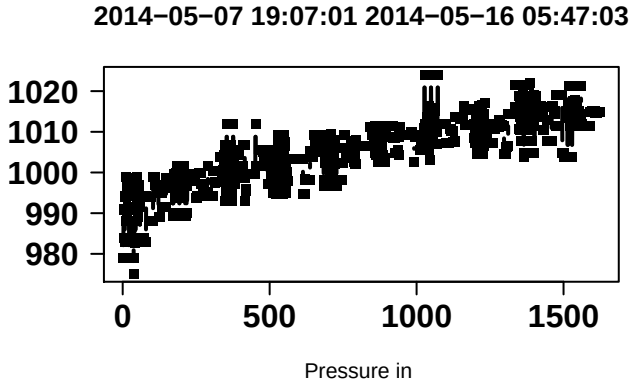

black 0.092 red 0.26
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
28.80
28.70
28.60
1
2
3
4
5
6

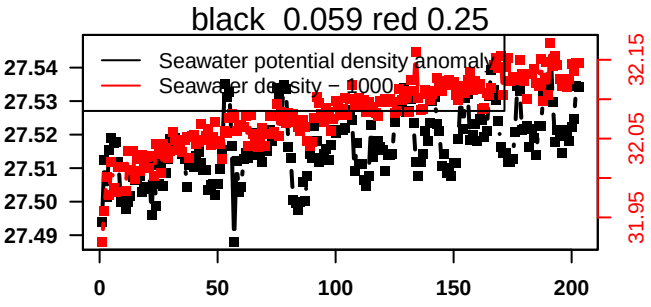

lovbio010b_059_03_06.txt
63
62
61
60
59
58
0
5
10
15
20
25
30
35
CDOM, [CN] / Points @ x s

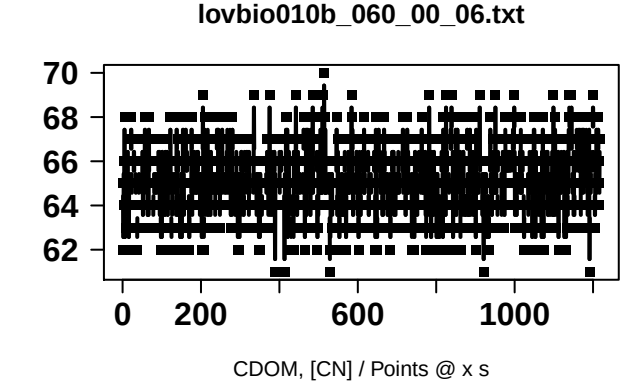

54
53
52
51
50
49
0
5
10
15
20
25
30
35
chl, [CN] / Points @ x s

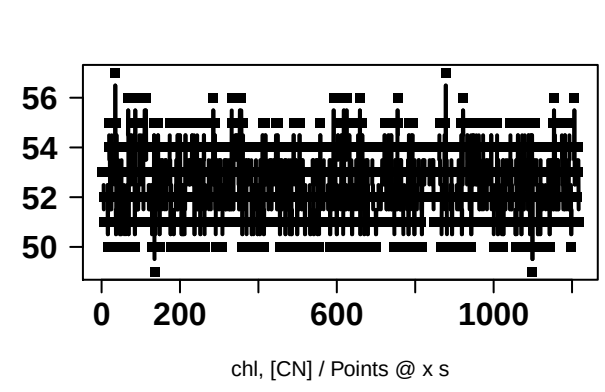

nb days: 0.2 freq: 9.4 min
104
102
100
98
96
94
92
0
5
10
15
20
25
30
35
beta, [CN] / Points @ x s

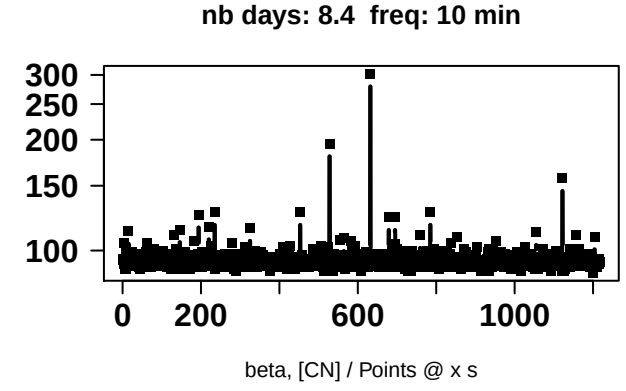

nb days: 0.2 freq: 53.3 min
0.4860
0.4855
0.4850
0.4845
0.4840
0.4835
0.4830
1
2
3
4
5
6
c, [1/m] + 0.1 / Points @ x s

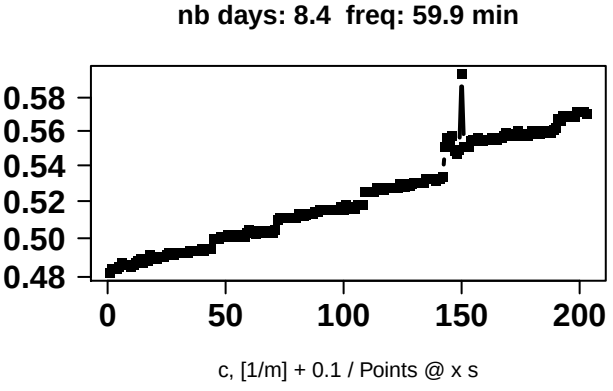

2014−05−07 19:07:01 2014−05−16 05:47:03
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

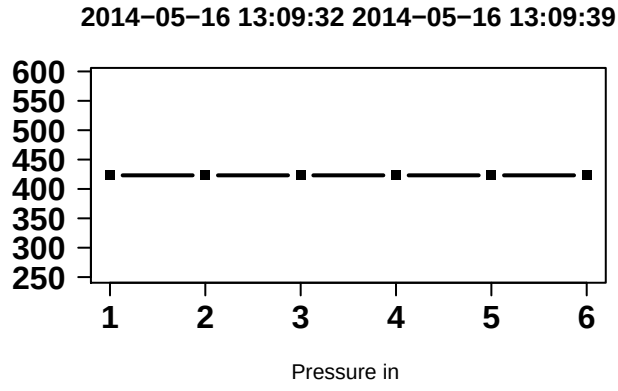

black 0.059 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
27.49
32.15
32.05
31.95
0
50
100
150
200

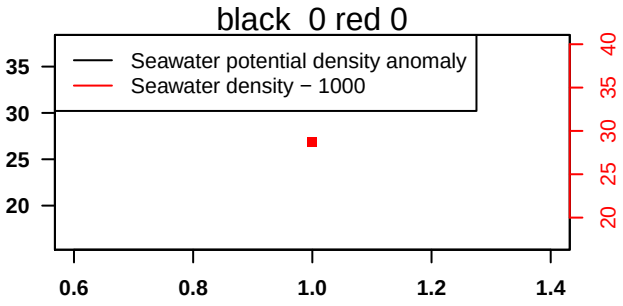

lovbio010b_060_00_06.txt
70
68
66
64
62
0
200
600
1000
CDOM, [CN] / Points @ x s

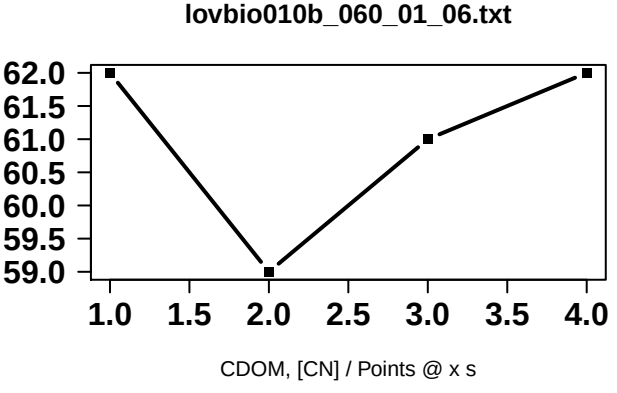

56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

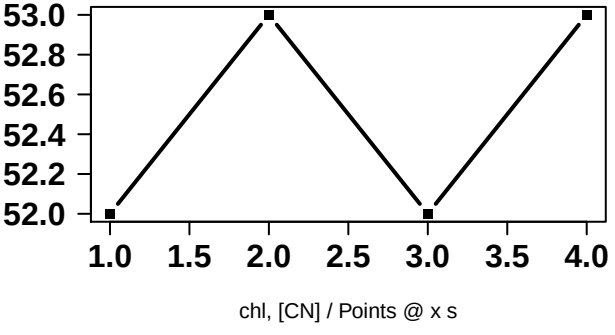

nb days: 8.4 freq: 10 min
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

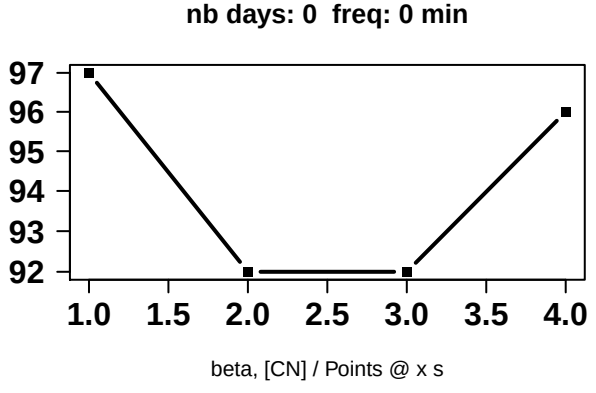

nb days: 8.4 freq: 59.9 min
0.58
0.56
0.54
0.52
0.50
0.48
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

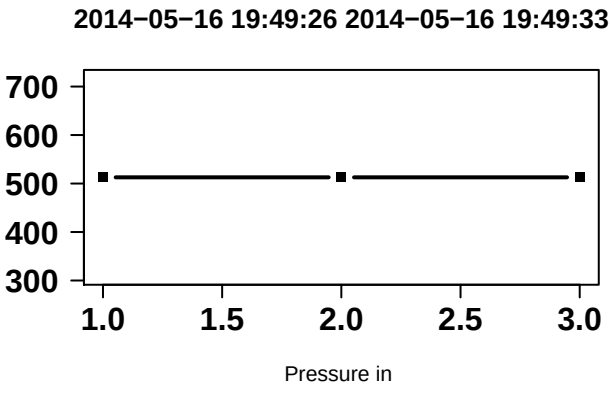

2014−05−16 13:09:32 2014−05−16 13:09:39
600
550
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

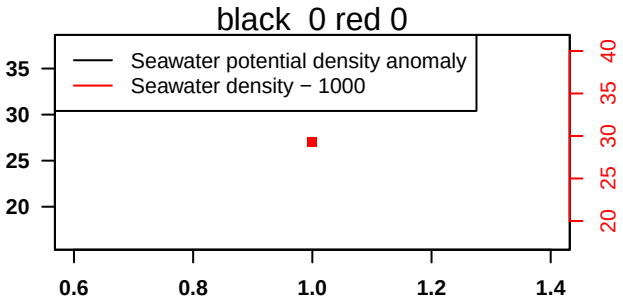

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

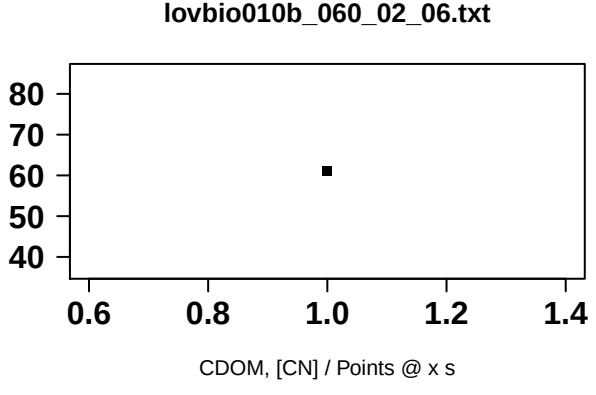

lovbio010b_060_01_06.txt
62.0
61.5
61.0
60.5
60.0
59.5
59.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

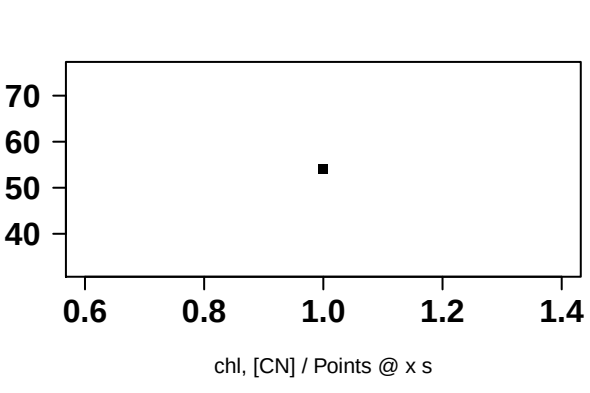

53.0
52.8
52.6
52.4
52.2
52.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

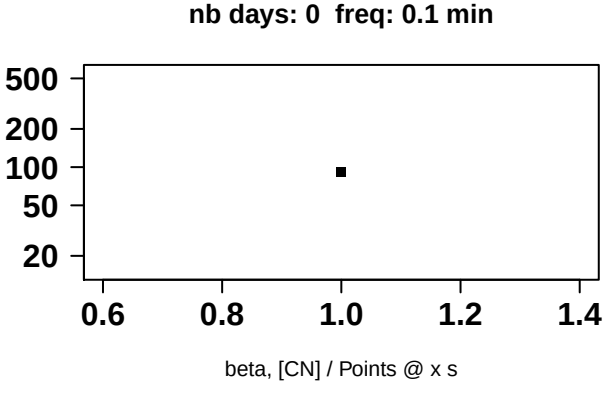

nb days: 0 freq: 0 min
97
96
95
94
93
92
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

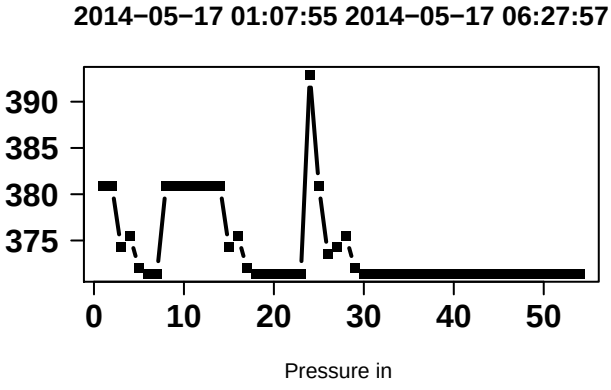

2014−05−16 19:49:26 2014−05−16 19:49:33
700
600
500
400
300
1.0
1.5
2.0
2.5
3.0
Pressure in

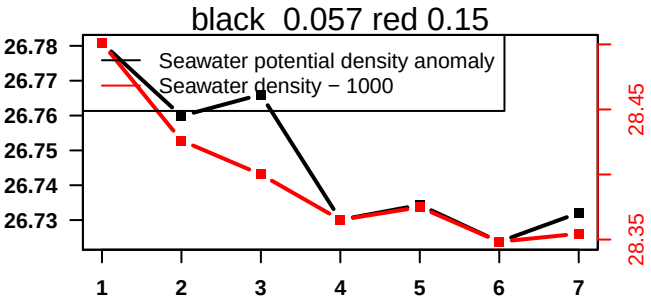

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

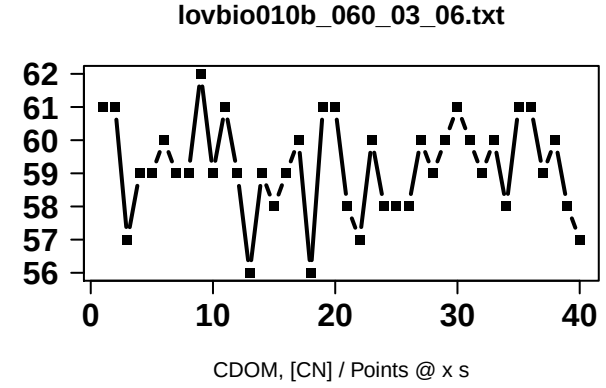

lovbio010b_060_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

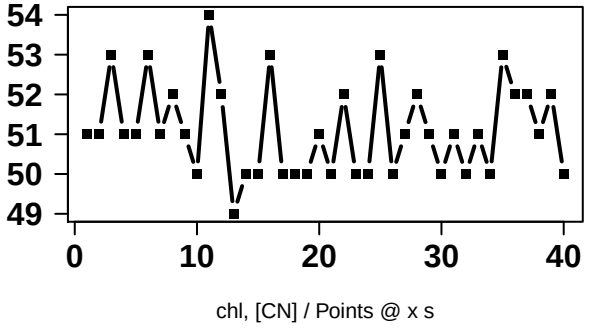

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

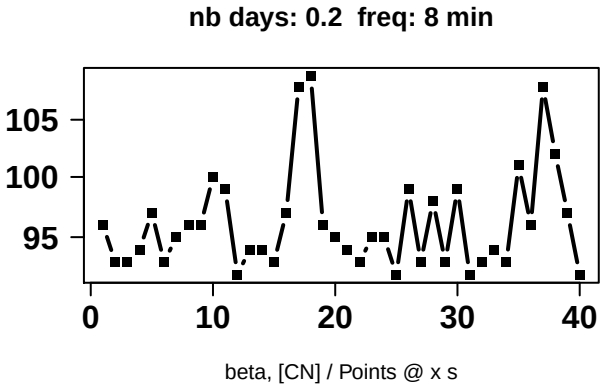

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

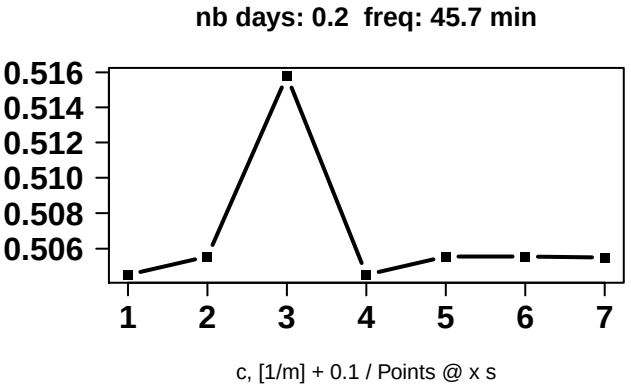

2014−05−17 01:07:55 2014−05−17 06:27:57
390
385
380
375
0
10
20
30
40
50
Pressure in

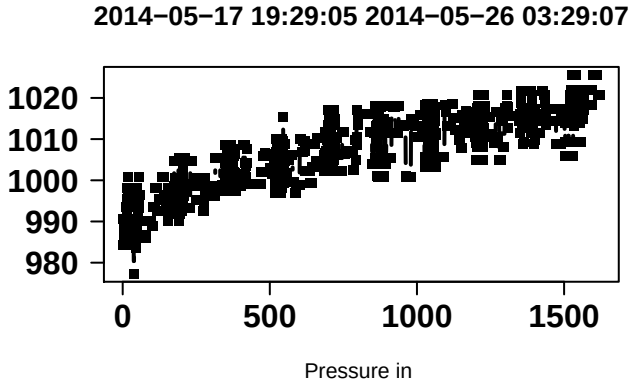

black 0.057 red 0.15
Seawater potential density anomaly
Seawater density − 1000
26.78
26.77
26.76
26.75
26.74
26.73
28.45
28.35
1
2
3
4
5
6
7

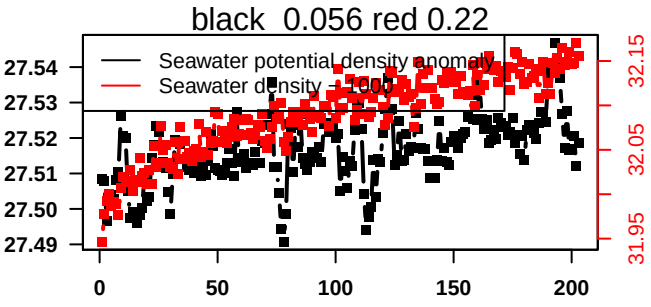

lovbio010b_060_03_06.txt
62
61
60
59
58
57
56
0
10
20
30
40
CDOM, [CN] / Points @ x s

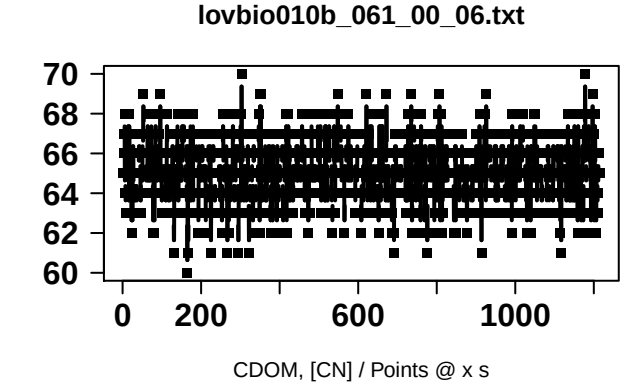

54
53
52
51
50
49
0
10
20
30
40
chl, [CN] / Points @ x s

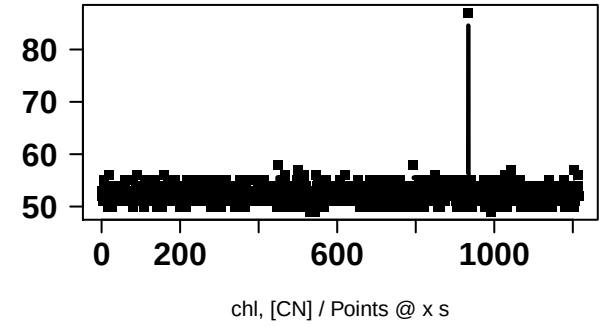

nb days: 0.2 freq: 8 min
105
100
95
0
10
20
30
40
beta, [CN] / Points @ x s

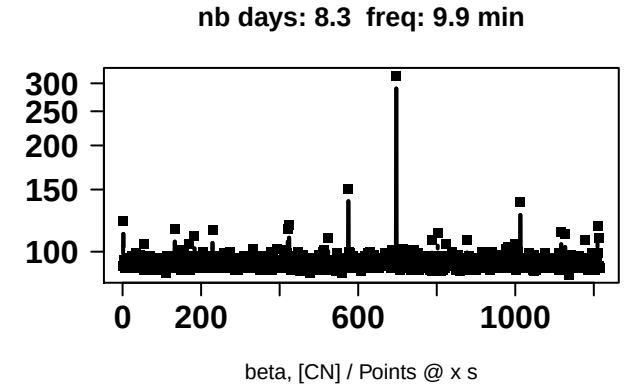

nb days: 0.2 freq: 45.7 min
0.516
0.514
0.512
0.510
0.508
0.506
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

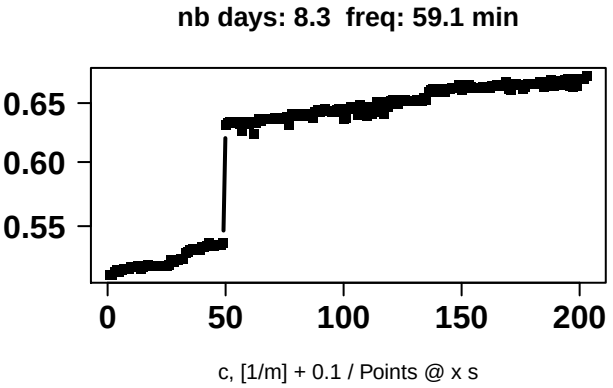

2014−05−17 19:29:05 2014−05−26 03:29:07
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

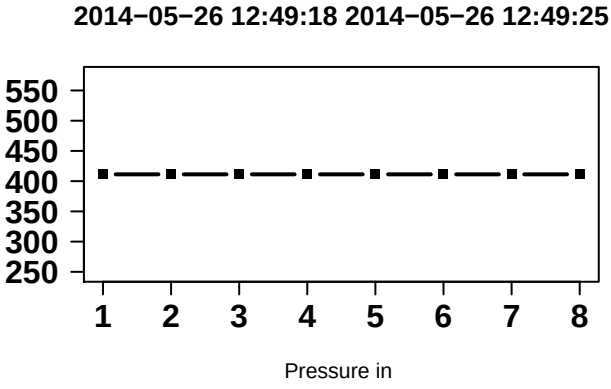

black 0.056 red 0.22
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
27.49
32.15
32.05
31.95
0
50
100
150
200

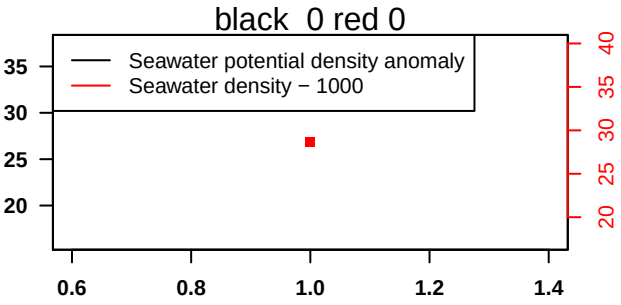

lovbio010b_061_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

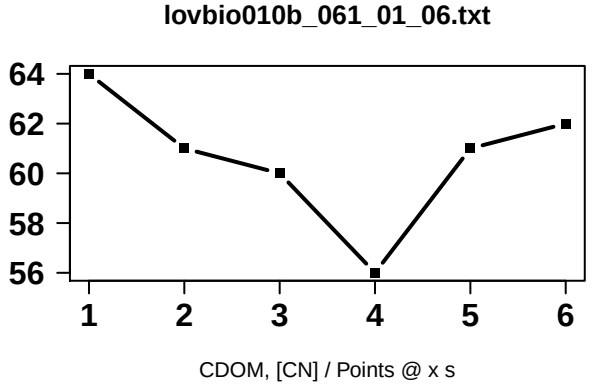

80
70
60
50
0
200
600
1000
chl, [CN] / Points @ x s

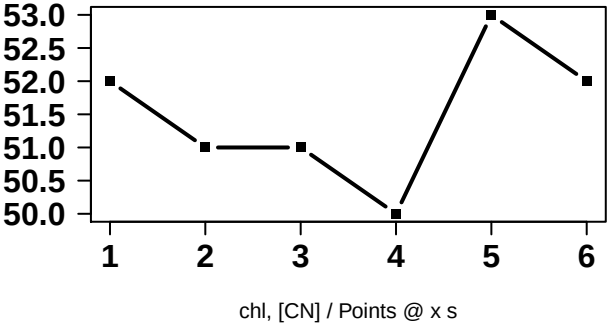

nb days: 8.3 freq: 9.9 min
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

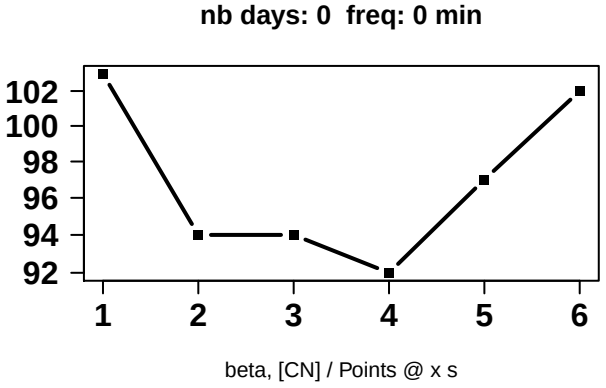

nb days: 8.3 freq: 59.1 min
0.65
0.60
0.55
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

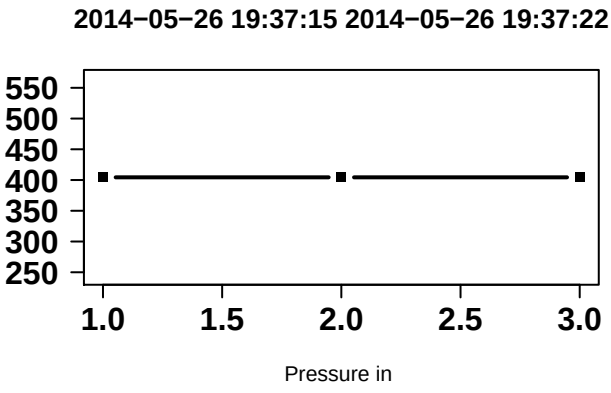

2014−05−26 12:49:18 2014−05−26 12:49:25
550
500
450
400
350
300
250
1
2
3
4
5
6
7
8
Pressure in

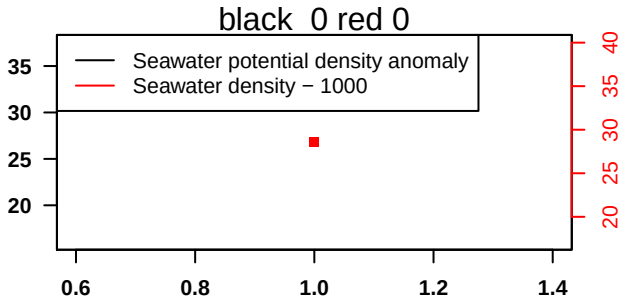

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

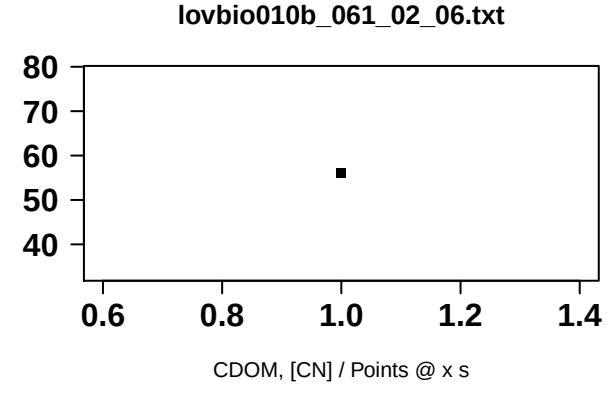

lovbio010b_061_01_06.txt
64
62
60
58
56
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

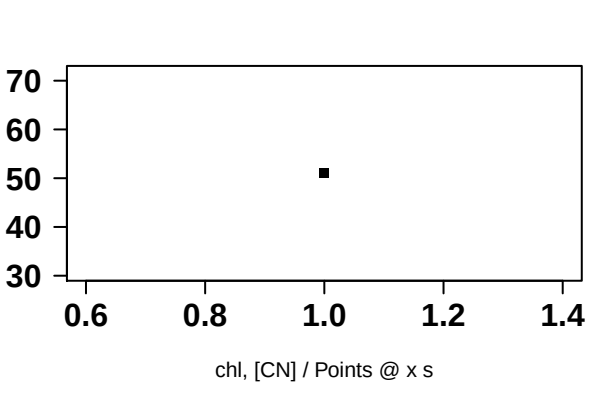

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

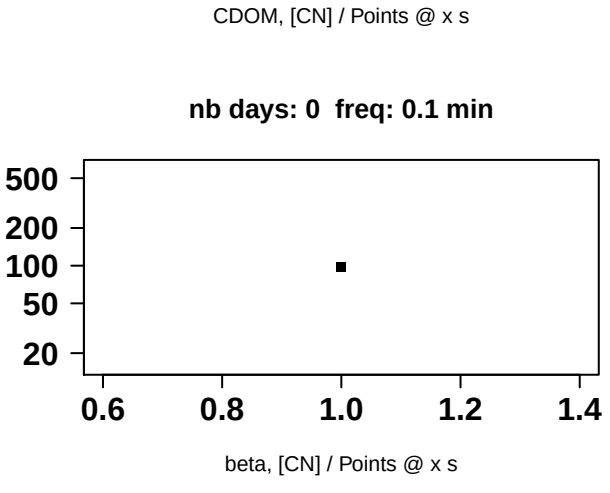

nb days: 0 freq: 0 min
102
100
98
96
94
92
1
2
3
4
5
6
beta, [CN] / Points @ x s

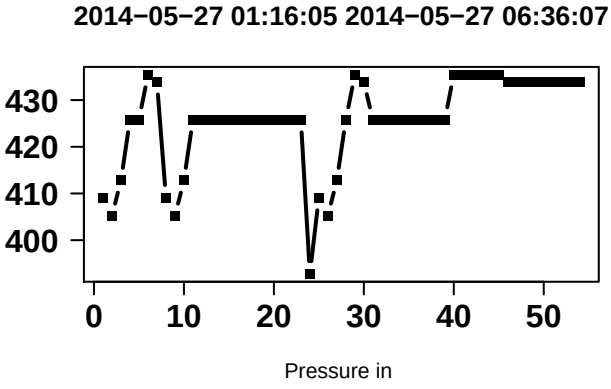

2014−05−26 19:37:15 2014−05−26 19:37:22
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

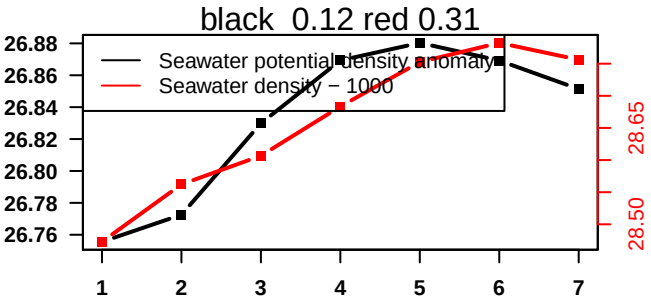

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

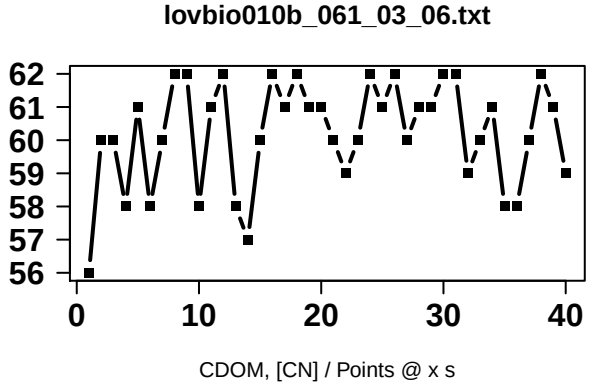

lovbio010b_061_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

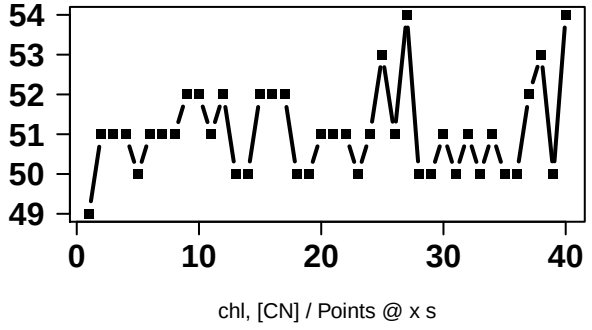

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

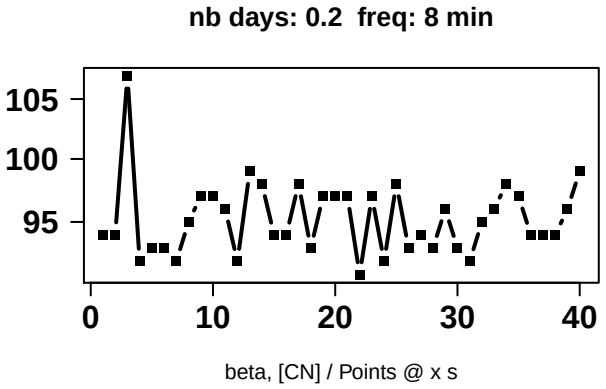

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

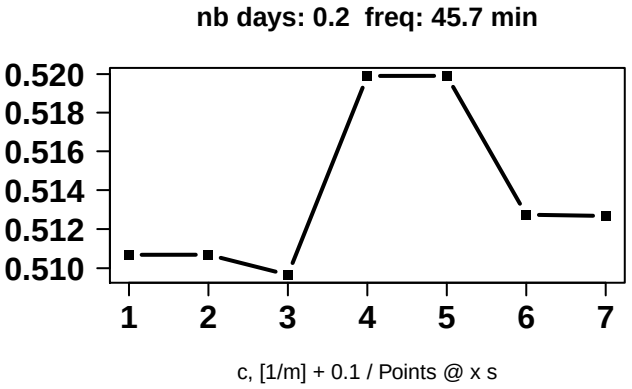

2014−05−27 01:16:05 2014−05−27 06:36:07
430
420
410
400
0
10
20
30
40
50
Pressure in

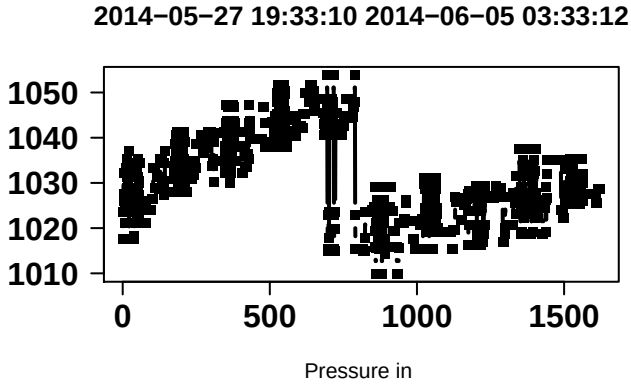

black 0.12 red 0.31
Seawater potential density anomaly
Seawater density − 1000
26.88
26.86
26.84
26.82
26.80
26.78
26.76
28.65
28.50
1
2
3
4
5
6
7

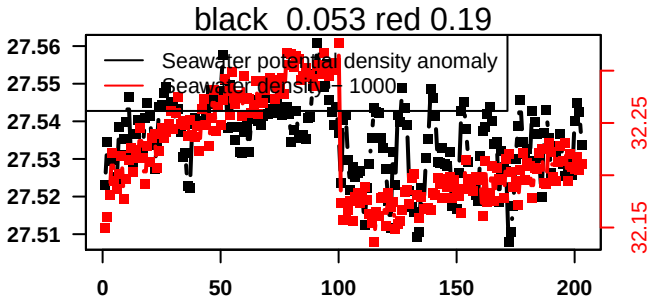

lovbio010b_061_03_06.txt
62
61
60
59
58
57
56
0
10
20
30
40
CDOM, [CN] / Points @ x s

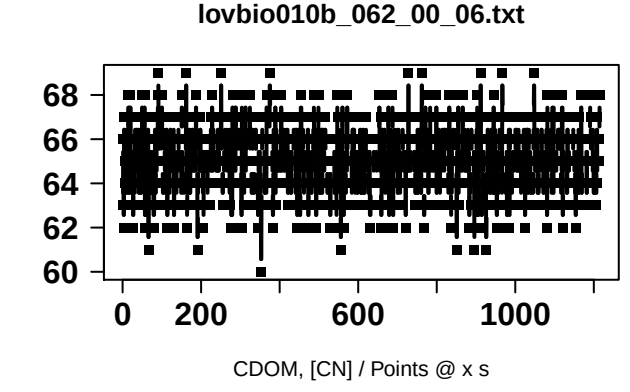

54
53
52
51
50
49
0
10
20
30
40
chl, [CN] / Points @ x s

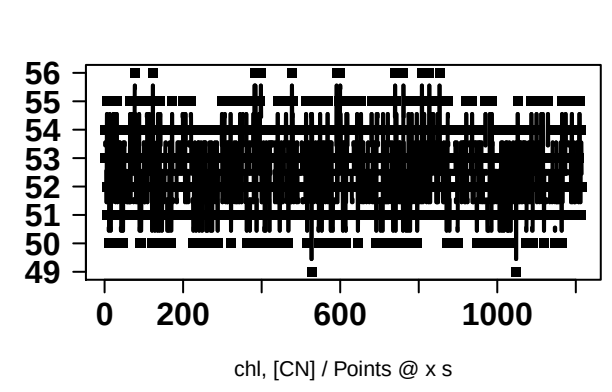

nb days: 0.2 freq: 8 min
105
100
95
0
10
20
30
40
beta, [CN] / Points @ x s

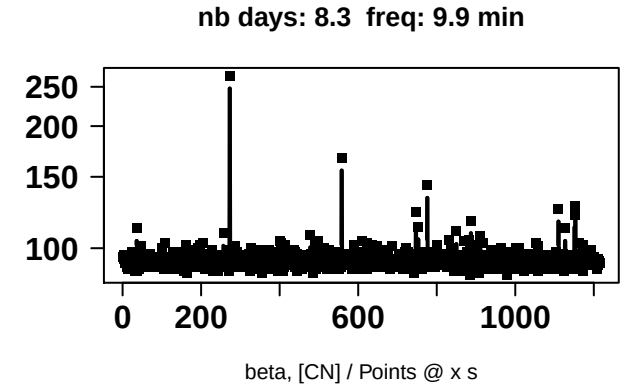

nb days: 0.2 freq: 45.7 min
0.520
0.518
0.516
0.514
0.512
0.510
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

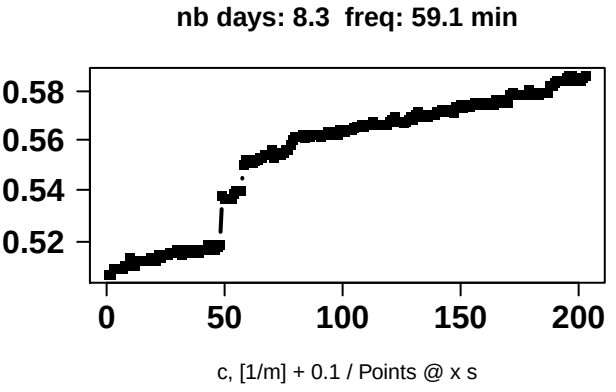

2014−05−27 19:33:10 2014−06−05 03:33:12
1050
1040
1030
1020
1010
0
500
1000
1500
Pressure in

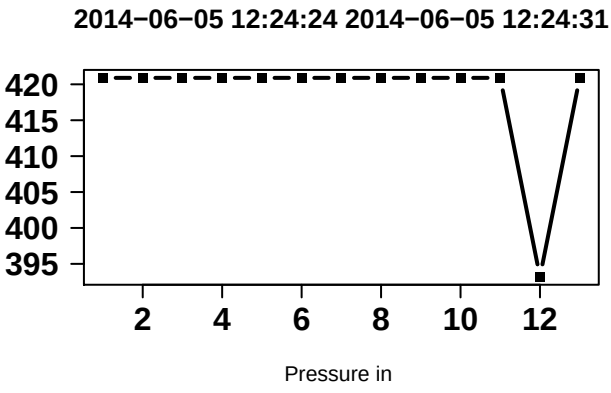

black 0.053 red 0.19
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
27.51
32.25
32.15
0
50
100
150
200

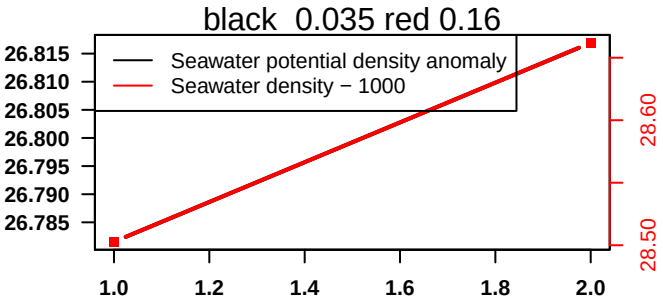

lovbio010b_062_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

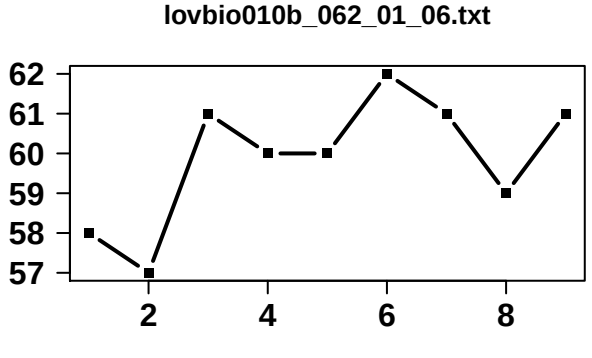

56
55
54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

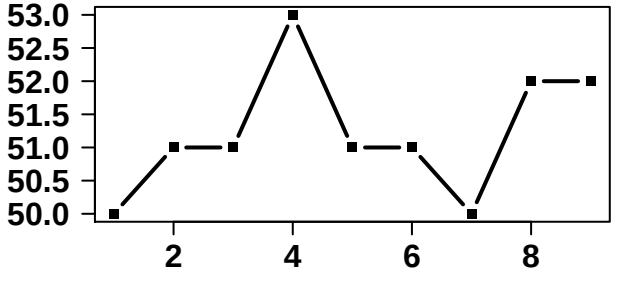

nb days: 8.3 freq: 9.9 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

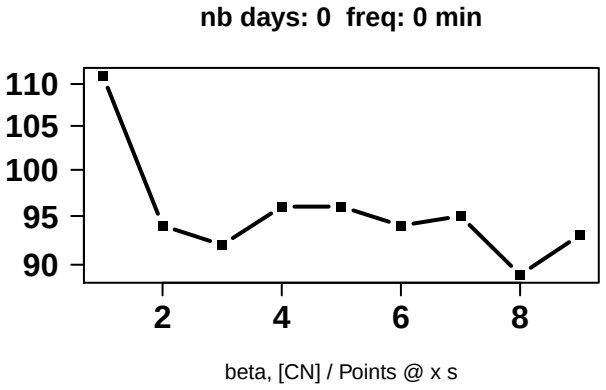

nb days: 8.3 freq: 59.1 min
0.58
0.56
0.54
0.52
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

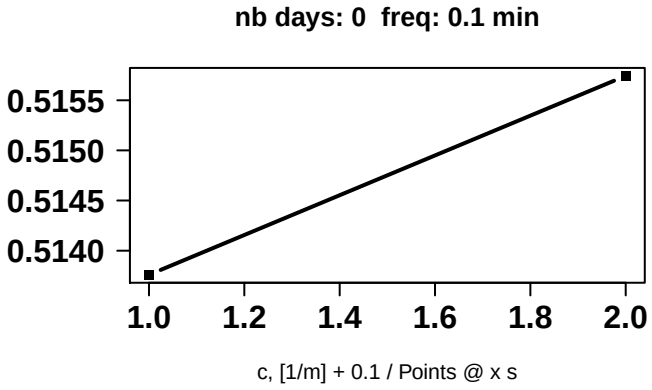

2014−06−05 12:24:24 2014−06−05 12:24:31
420
415
410
405
400
395
2
4
6
8
10
12
Pressure in

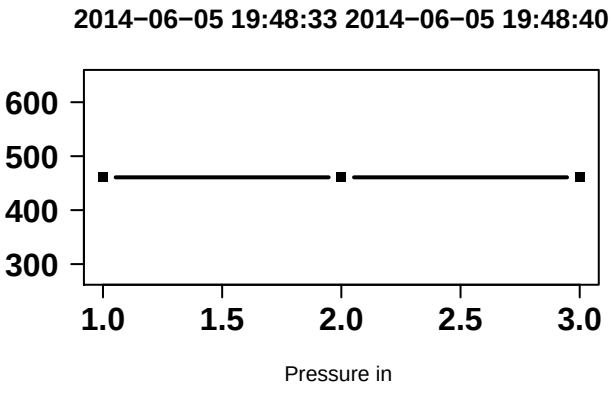

black 0.035 red 0.16
Seawater potential density anomaly
Seawater density − 1000
26.815
26.810
26.805
26.800
26.795
26.790
26.785
28.60
28.50
1.0
1.2
1.4
1.6
1.8
2.0

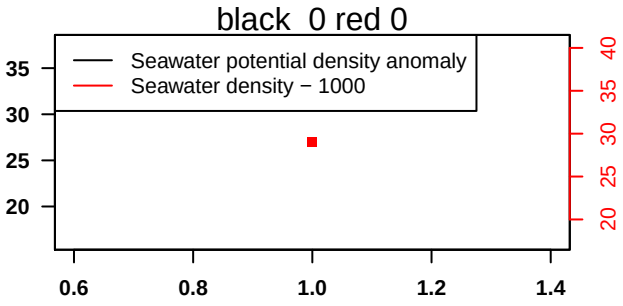

lovbio010b_062_01_06.txt
62
61
60
59
58
57
2
4
6
8
CDOM, [CN] / Points @ x s

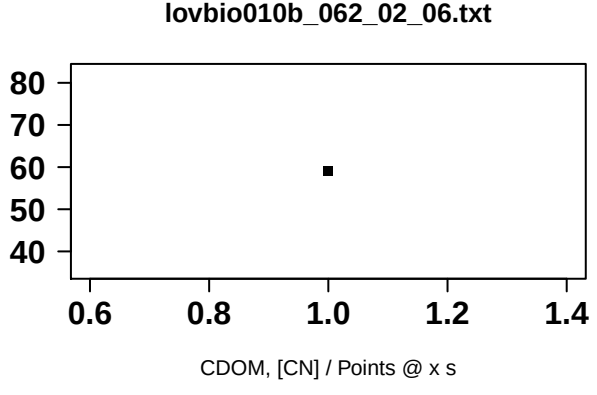

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

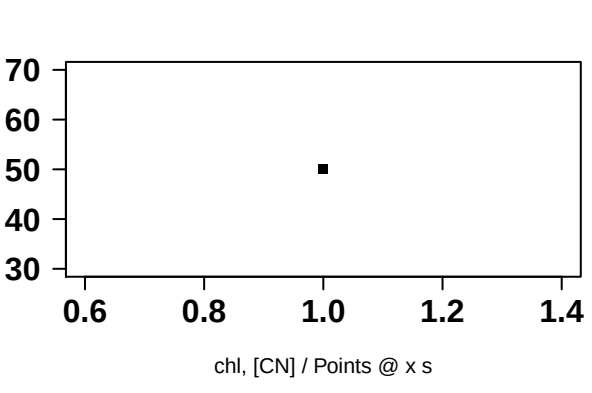

nb days: 0 freq: 0 min
110
105
100
95
90
2
4
6
8
beta, [CN] / Points @ x s

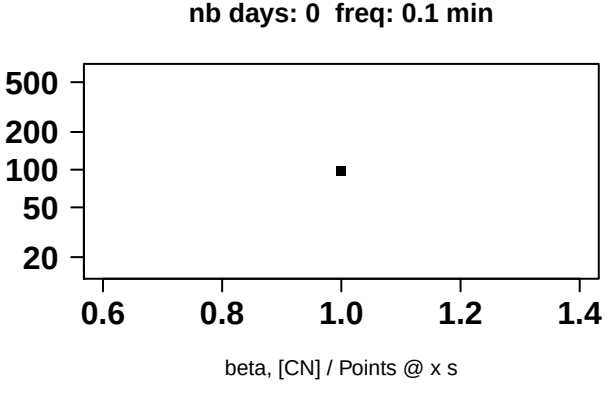

nb days: 0 freq: 0.1 min
0.5155
0.5150
0.5145
0.5140
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

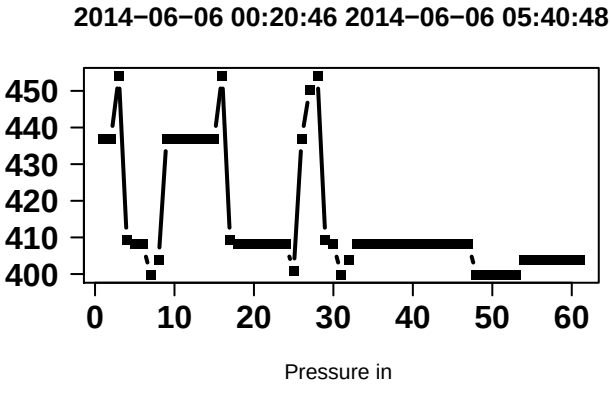

2014−06−05 19:48:33 2014−06−05 19:48:40
600
500
400
300
1.0
1.5
2.0
2.5
3.0
Pressure in

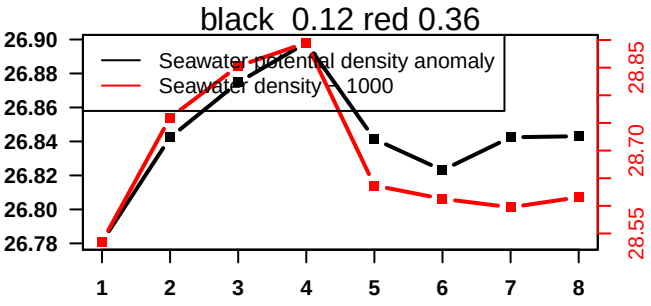

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

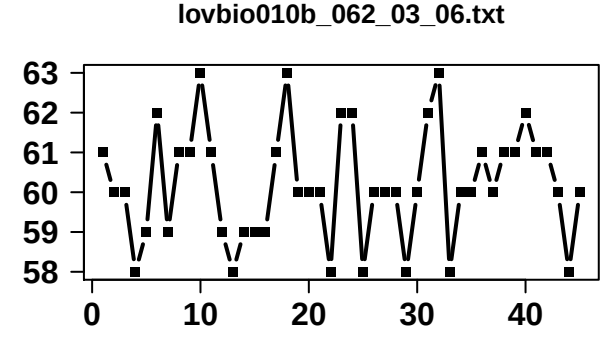

lovbio010b_062_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

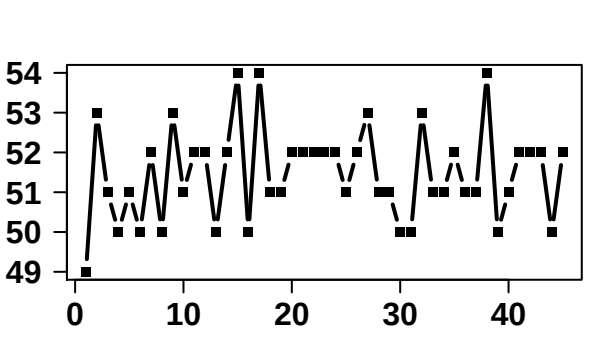

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

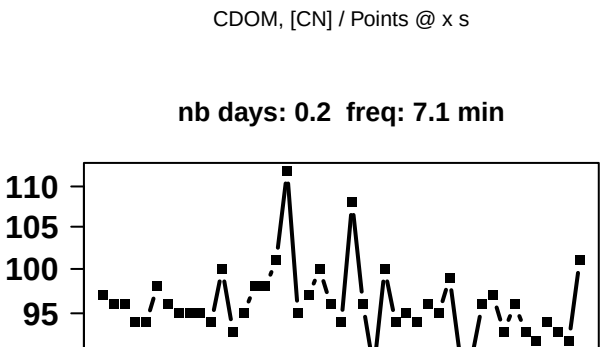

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

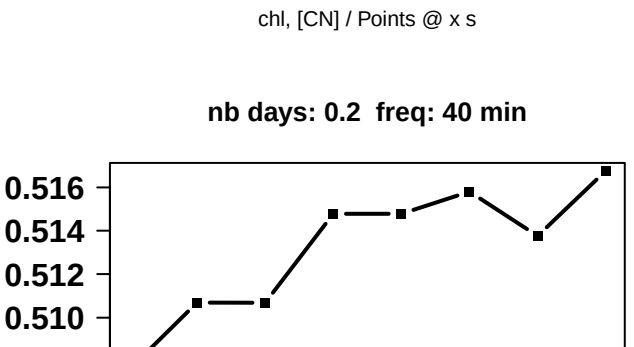

2014−06−06 00:20:46 2014−06−06 05:40:48
450
440
430
420
410
400
0
10
20
30
40
50
60
Pressure in

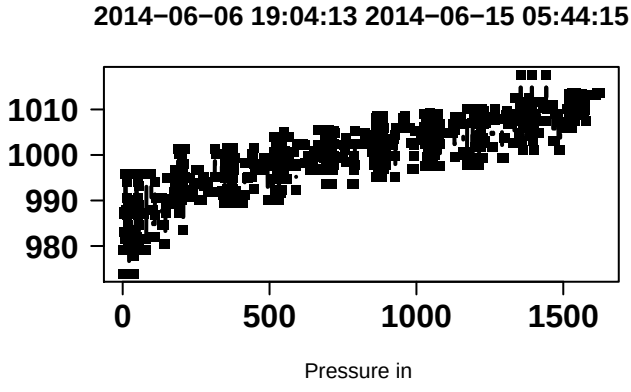

black 0.12 red 0.36
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
26.80
26.78
28.85
28.70
28.55
1
2
3
4
5
6
7
8

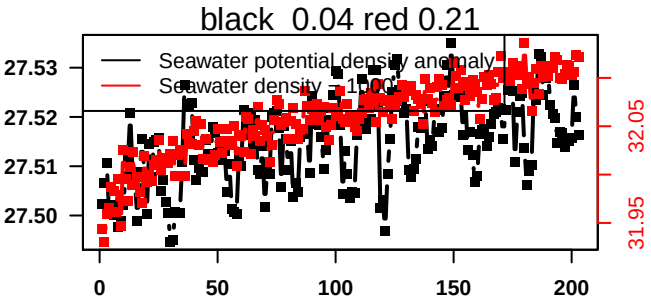

lovbio010b_062_03_06.txt
63
62
61
60
59
58
0
10
20
30
40
CDOM, [CN] / Points @ x s

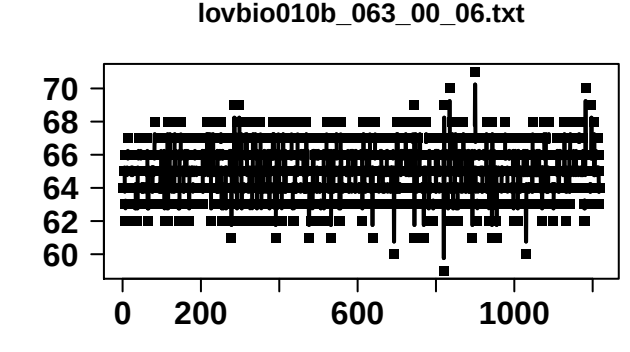

54
53
52
51
50
49
0
10
20
30
40
chl, [CN] / Points @ x s

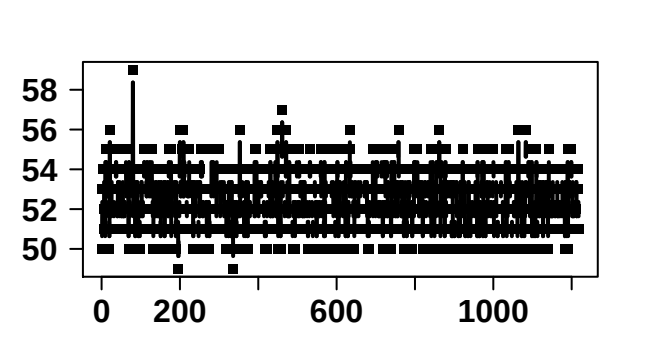

nb days: 0.2 freq: 7.1 min
110
105
100
95
90
0
10
20
30
40
beta, [CN] / Points @ x s

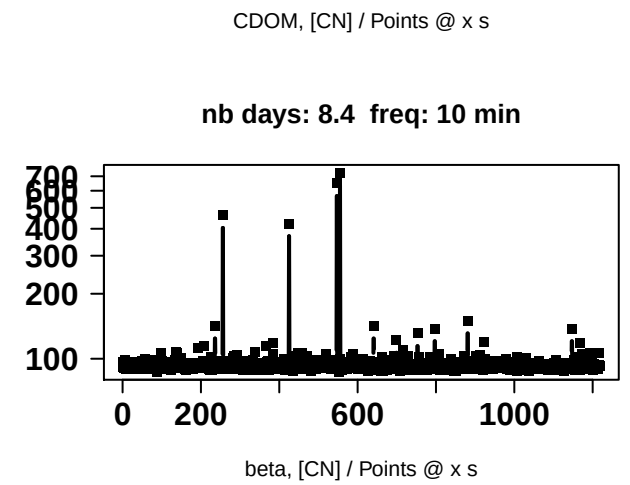

nb days: 0.2 freq: 40 min
0.516
0.514
0.512
0.510
0.508
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

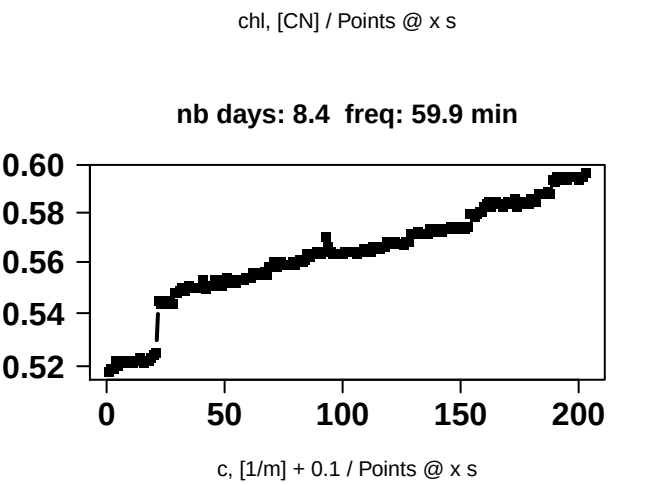

2014−06−06 19:04:13 2014−06−15 05:44:15
1010
1000
990
980
0
500
1000
1500
Pressure in

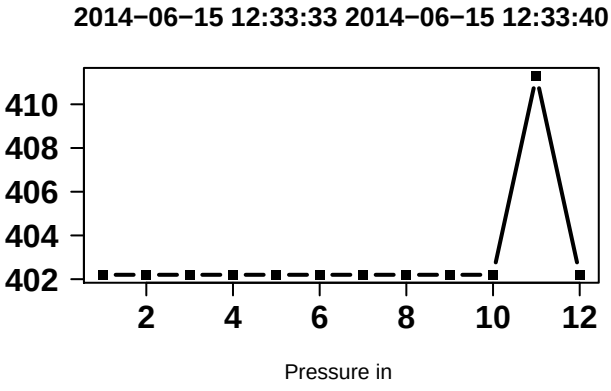

black 0.04 red 0.21
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
32.05
31.95
0
50
100
150
200

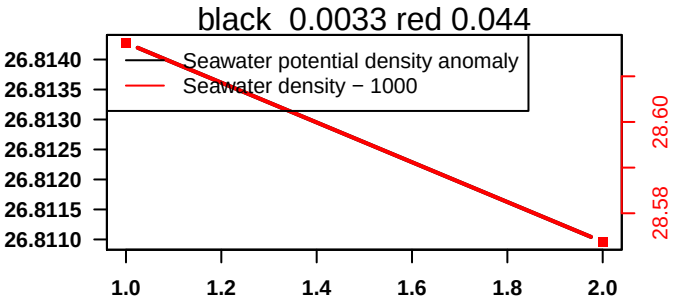

lovbio010b_063_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

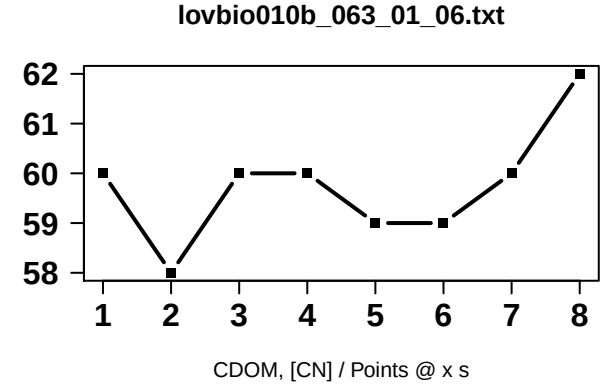

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

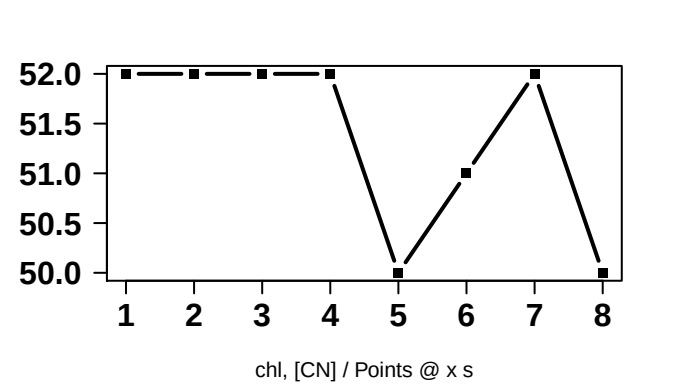

nb days: 8.4 freq: 10 min
700
600
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

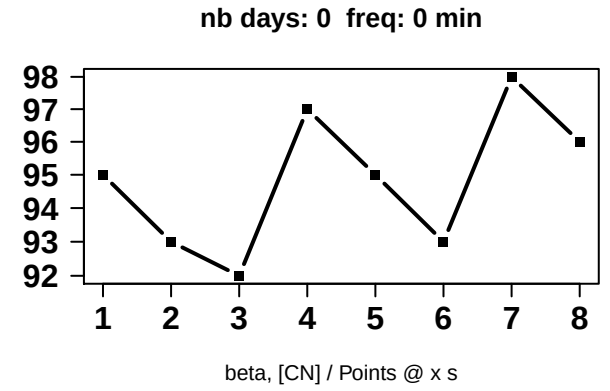

nb days: 8.4 freq: 59.9 min
0.60
0.58
0.56
0.54
0.52
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

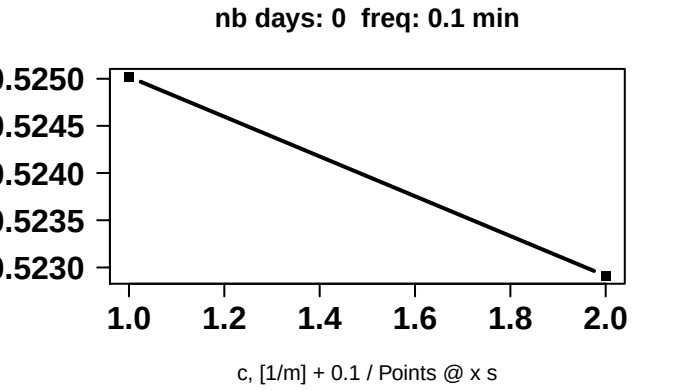

2014−06−15 12:33:33 2014−06−15 12:33:40
410
408
406
404
402
2
4
6
8
10
12
Pressure in

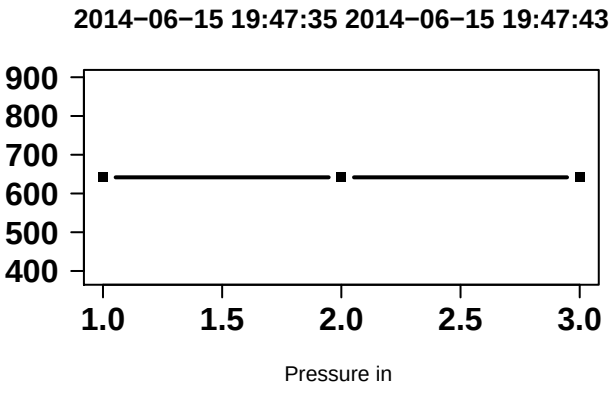

black 0.0033 red 0.044
Seawater potential density anomaly
Seawater density − 1000
26.8140
26.8135
26.8130
26.8125
26.8120
26.8115
26.8110
28.60
28.58
1.0
1.2
1.4
1.6
1.8
2.0

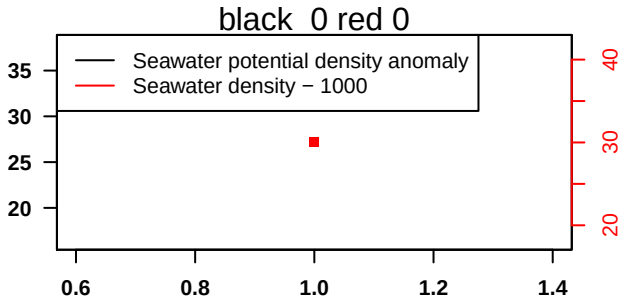

lovbio010b_063_01_06.txt
62
61
60
59
58
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

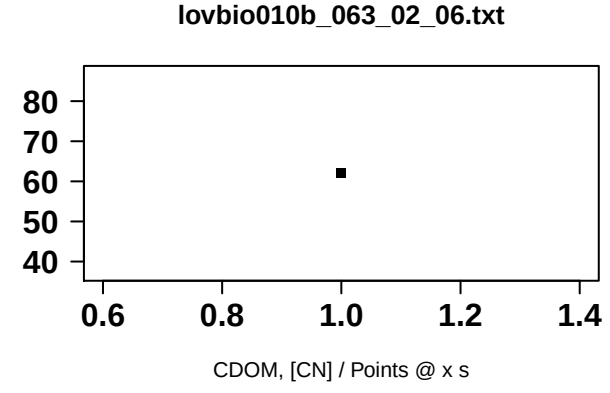

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

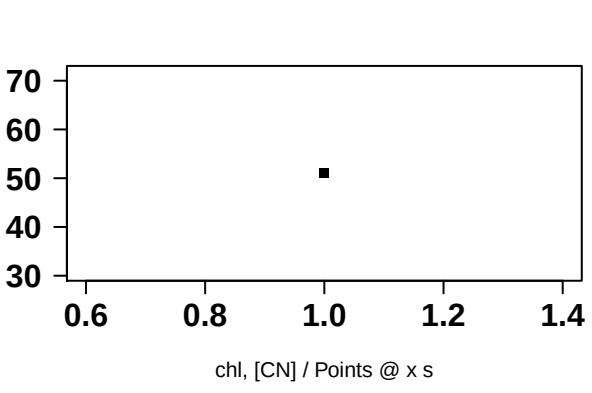

nb days: 0 freq: 0 min
98
97
96
95
94
93
92
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

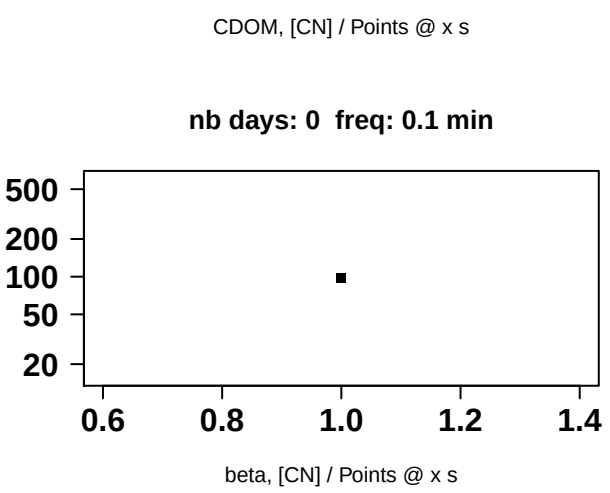

nb days: 0 freq: 0.1 min
0.5250
0.5245
0.5240
0.5235
0.5230
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

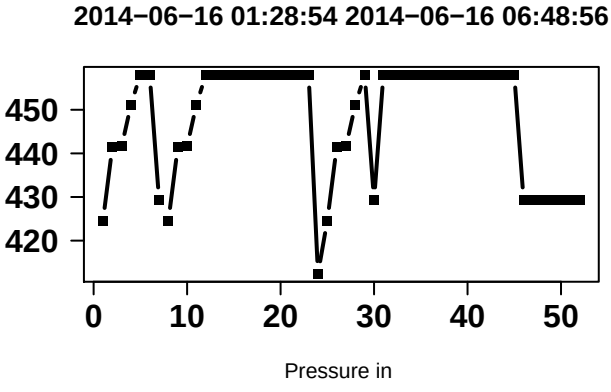

2014−06−15 19:47:35 2014−06−15 19:47:43
900
800
700
600
500
400
1.0
1.5
2.0
2.5
3.0
Pressure in

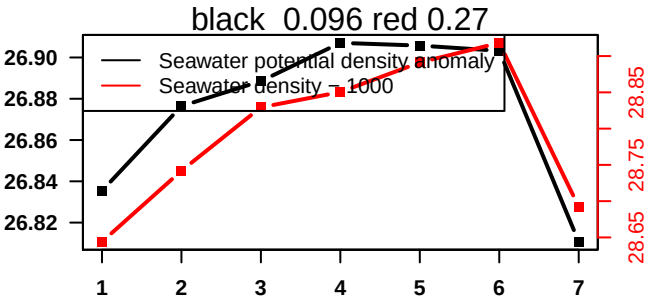

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

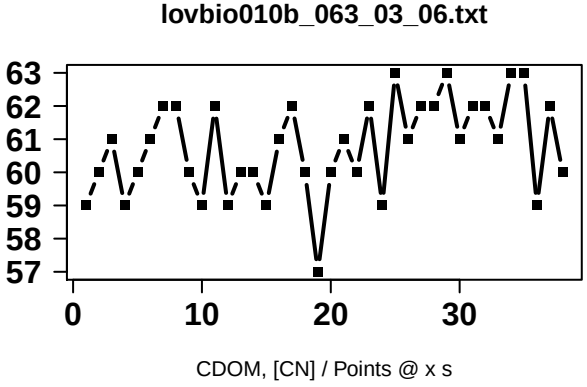

lovbio010b_063_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

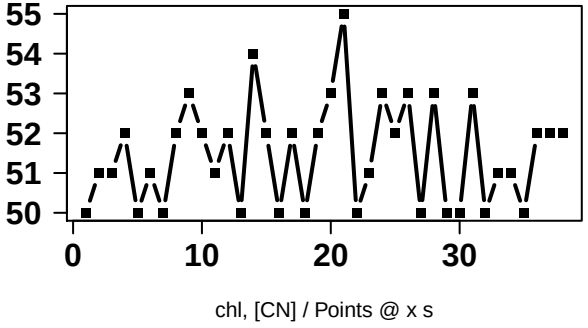

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

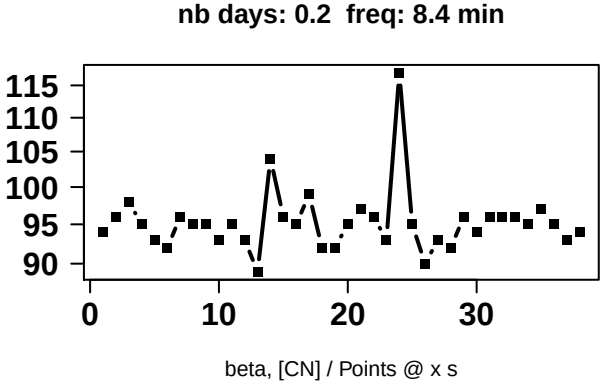

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

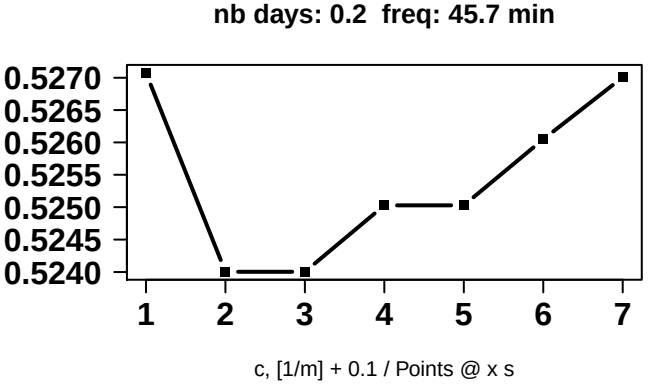

2014−06−16 01:28:54 2014−06−16 06:48:56
450
440
430
420
0
10
20
30
40
50
Pressure in

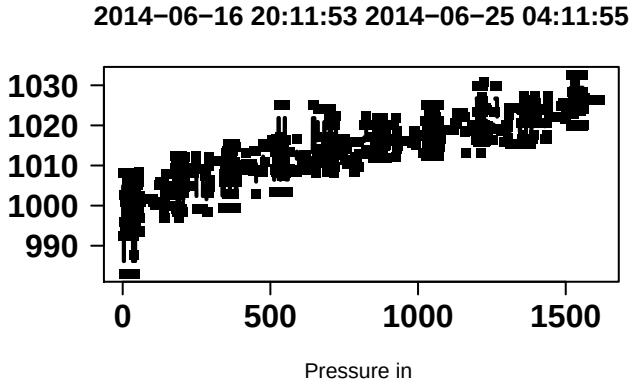

black 0.096 red 0.27
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
28.85
28.75
28.65
1
2
3
4
5
6
7

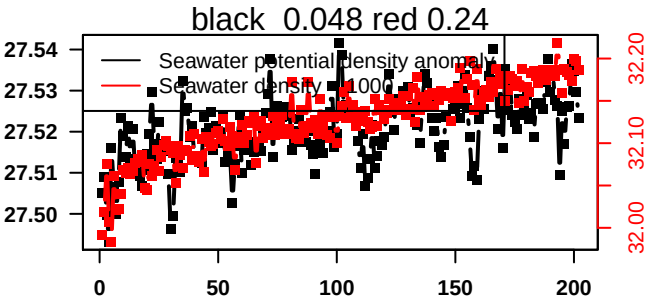

lovbio010b_063_03_06.txt
63
62
61
60
59
58
57
0
10
20
30
CDOM, [CN] / Points @ x s

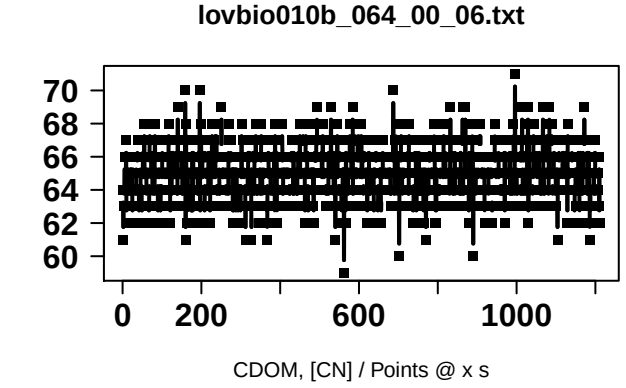

55
54
53
52
51
50
0
10
20
30
chl, [CN] / Points @ x s

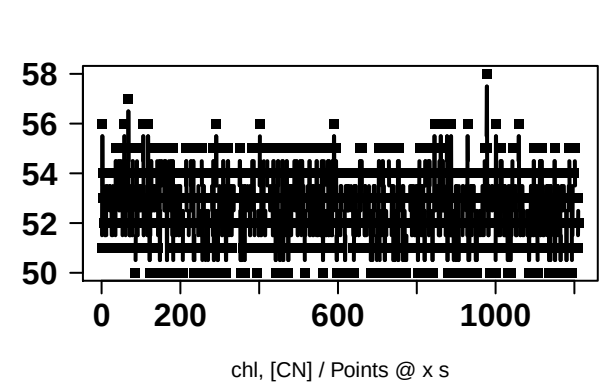

nb days: 0.2 freq: 8.4 min
115
110
105
100
95
90
0
10
20
30
beta, [CN] / Points @ x s

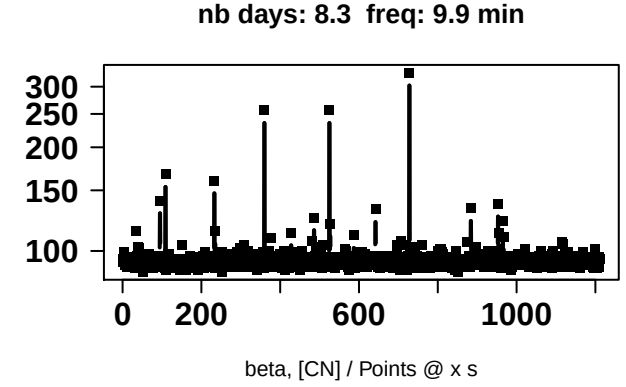

nb days: 0.2 freq: 45.7 min
0.5270
0.5265
0.5260
0.5255
0.5250
0.5245
0.5240
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

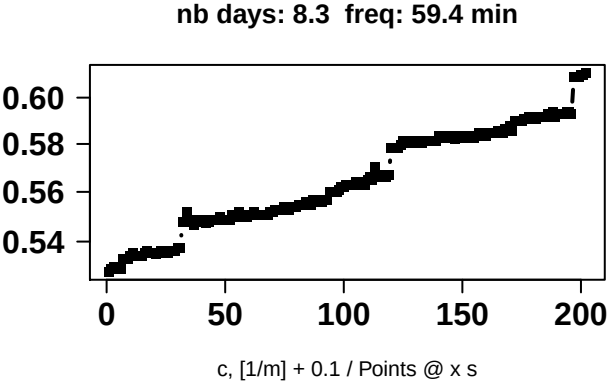

2014−06−16 20:11:53 2014−06−25 04:11:55
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

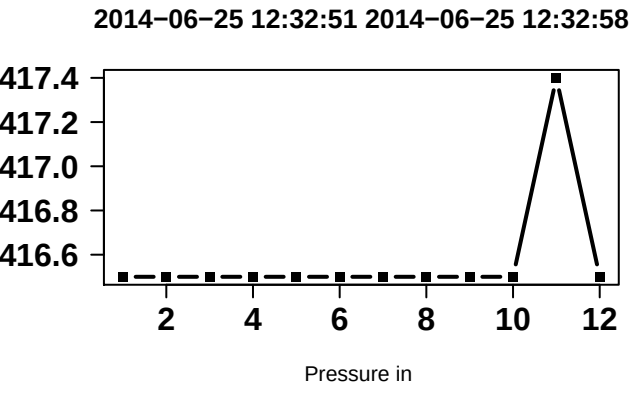

black 0.048 red 0.24
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.20
32.10
32.00
0
50
100
150
200

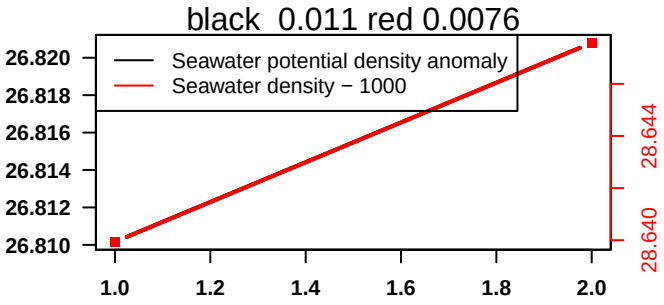

lovbio010b_064_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

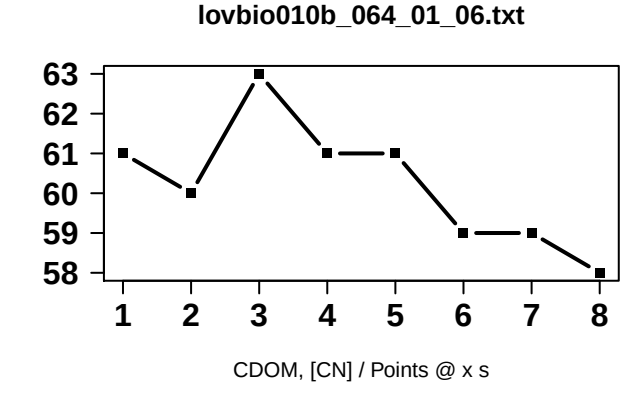

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

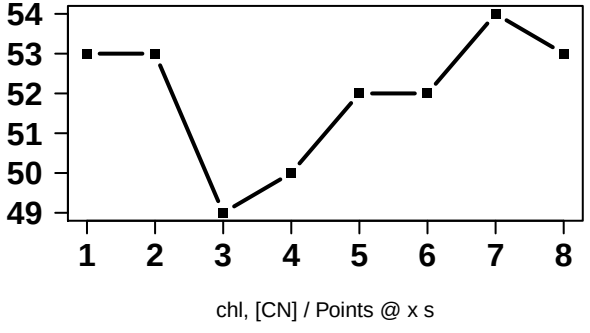

nb days: 8.3 freq: 9.9 min
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

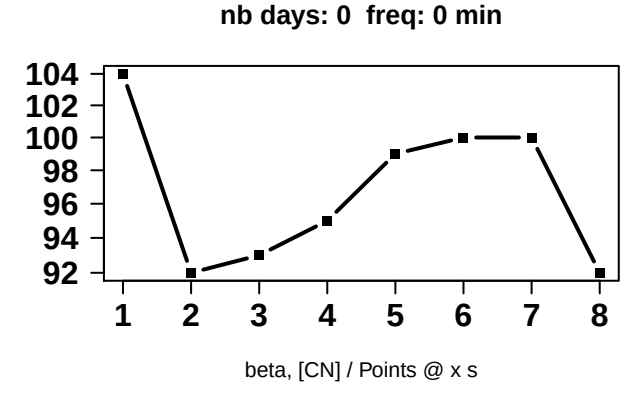

nb days: 8.3 freq: 59.4 min
0.60
0.58
0.56
0.54
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

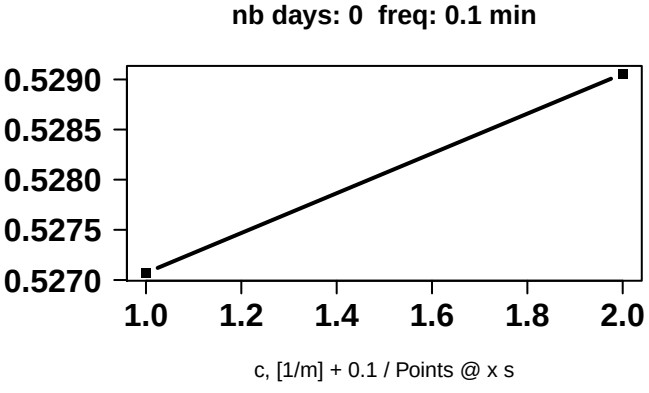

2014−06−25 12:32:51 2014−06−25 12:32:58
417.4
417.2
417.0
416.8
416.6
2
4
6
8
10
12
Pressure in

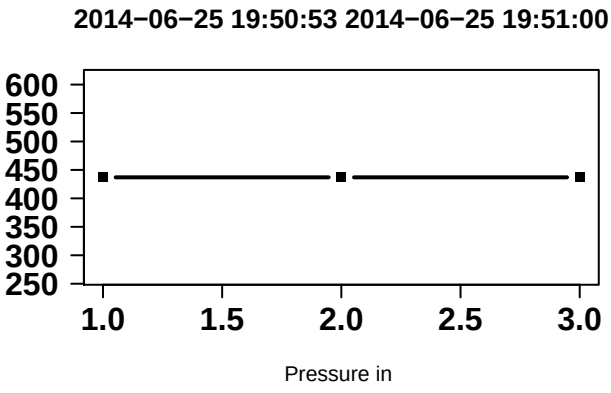

black 0.011 red 0.0076
Seawater potential density anomaly
Seawater density − 1000
26.820
26.818
26.816
26.814
26.812
26.810
28.644
28.640
1.0
1.2
1.4
1.6
1.8
2.0

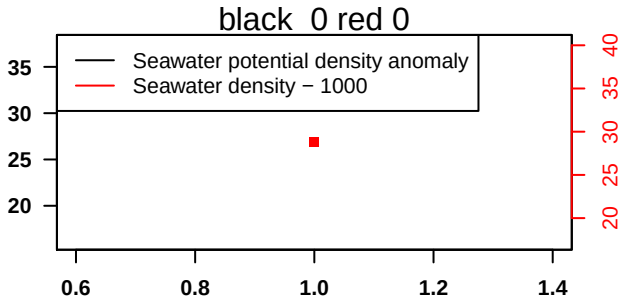

lovbio010b_064_01_06.txt
63
62
61
60
59
58
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

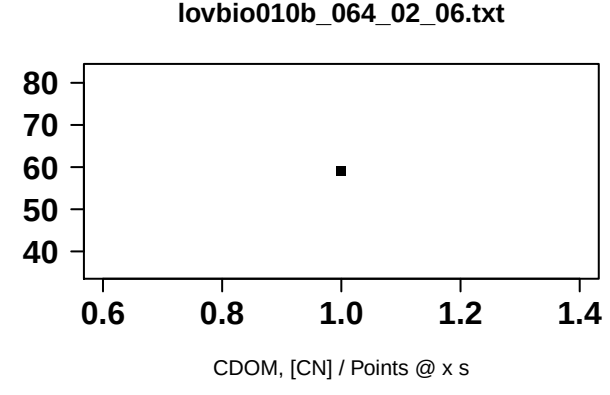

54
53
52
51
50
49
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

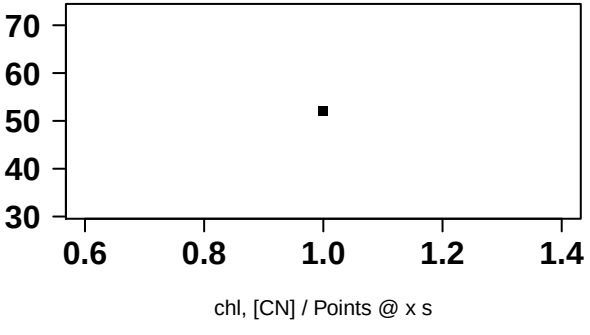

nb days: 0 freq: 0 min
104
102
100
98
96
94
92
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

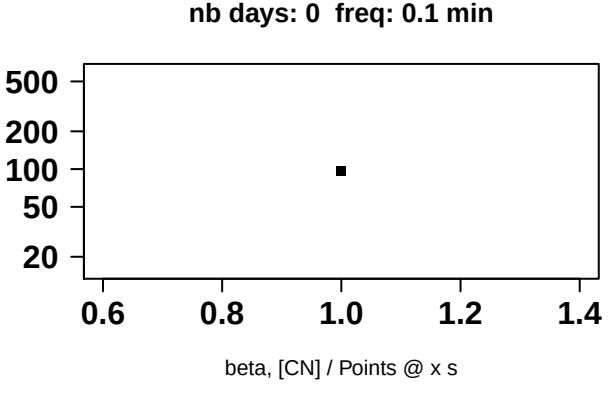

nb days: 0 freq: 0.1 min
0.5290
0.5285
0.5280
0.5275
0.5270
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

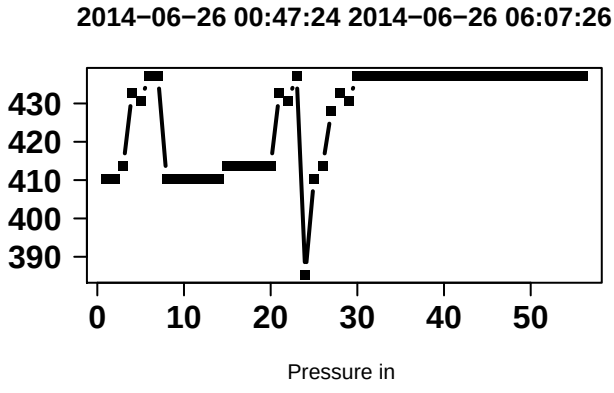

2014−06−25 19:50:53 2014−06−25 19:51:00
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

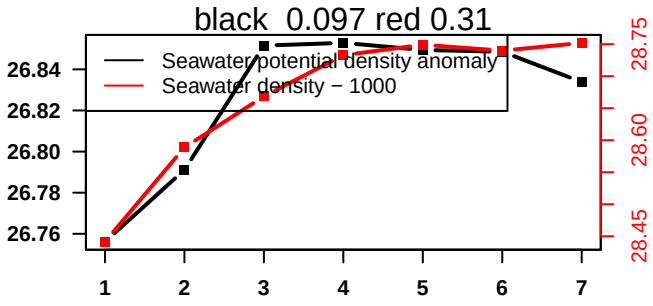

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

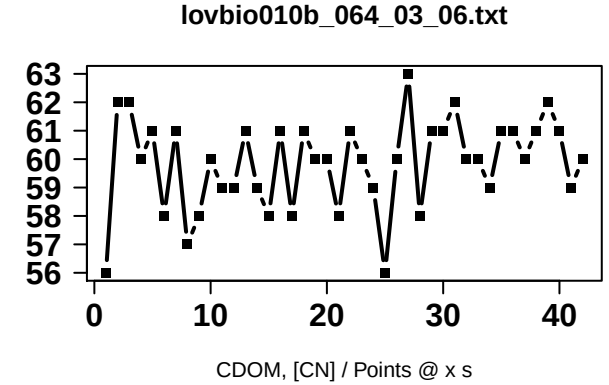

lovbio010b_064_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

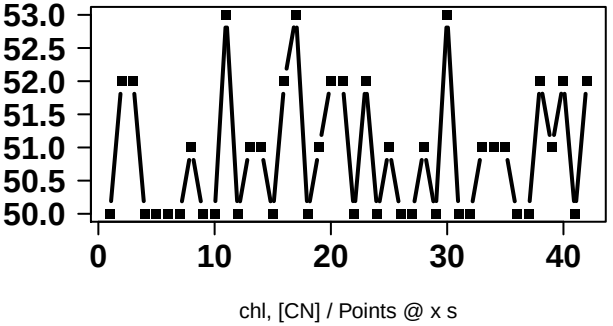

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

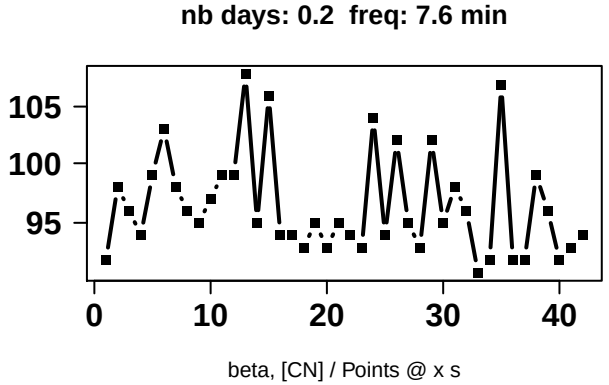

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

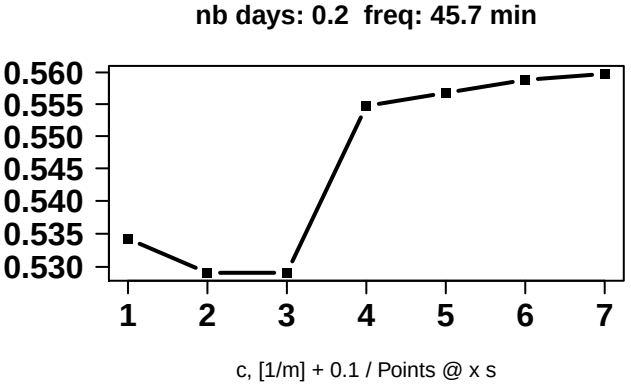

2014−06−26 00:47:24 2014−06−26 06:07:26
430
420
410
400
390
0
10
20
30
40
50
Pressure in

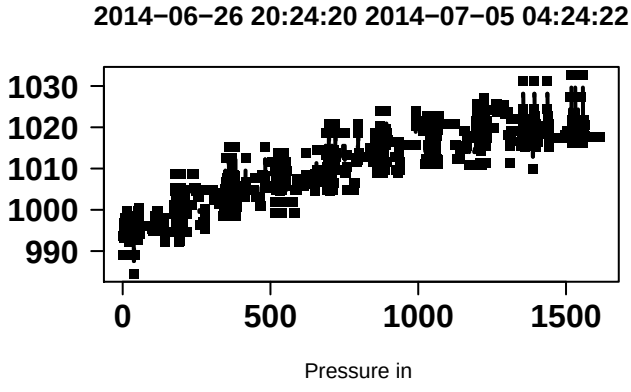

black 0.097 red 0.31
Seawater potential density anomaly
Seawater density − 1000
26.84
26.82
26.80
26.78
26.76
28.75
28.60
28.45
1
2
3
4
5
6
7

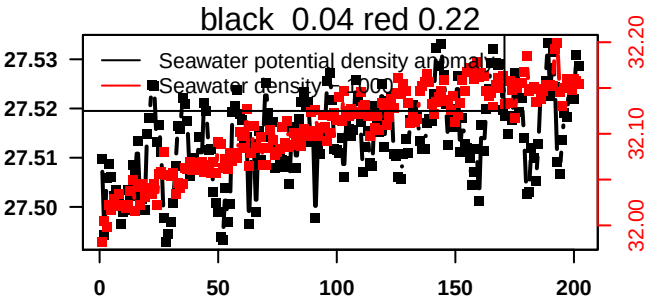

lovbio010b_064_03_06.txt
63
62
61
60
59
58
57
56
0
10
20
30
40
CDOM, [CN] / Points @ x s

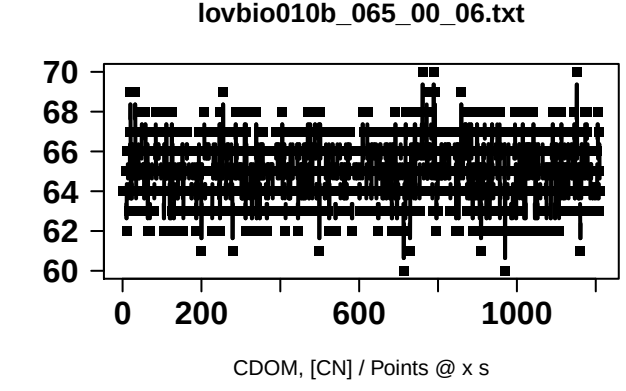

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
chl, [CN] / Points @ x s

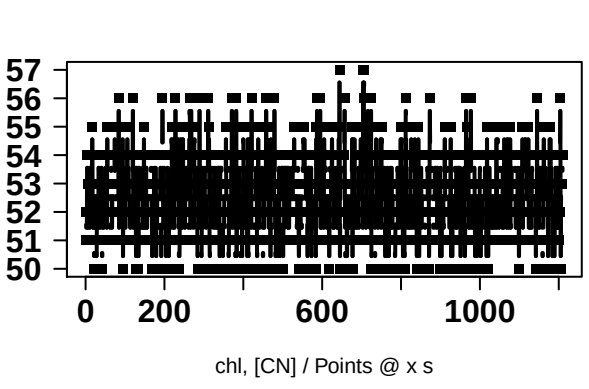

nb days: 0.2 freq: 7.6 min
105
100
95
0
10
20
30
40
beta, [CN] / Points @ x s

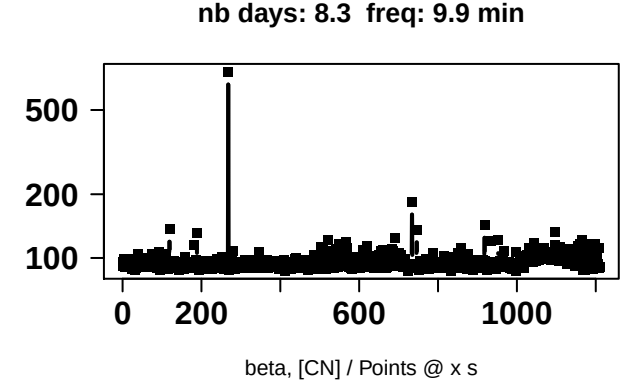

nb days: 0.2 freq: 45.7 min
0.560
0.555
0.550
0.545
0.540
0.535
0.530
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

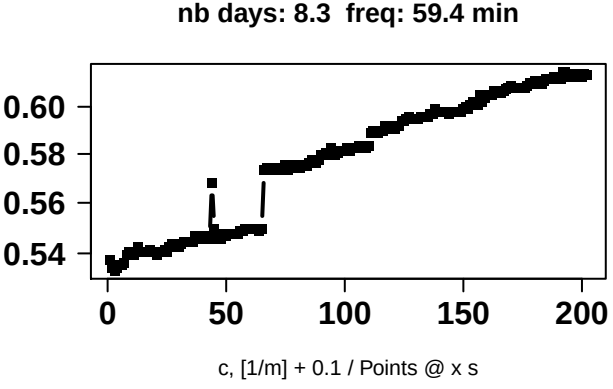

2014−06−26 20:24:20 2014−07−05 04:24:22
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

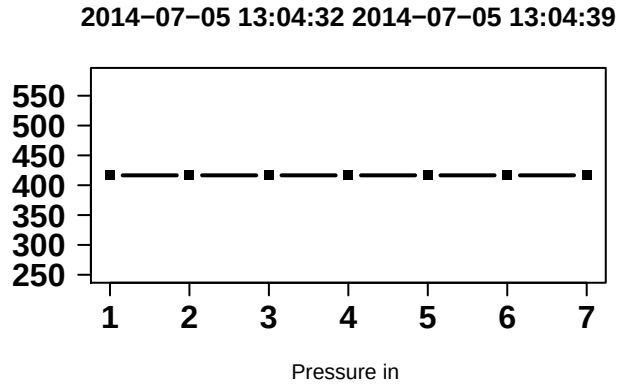

black 0.04 red 0.22
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
32.20
32.10
32.00
0
50
100
150
200

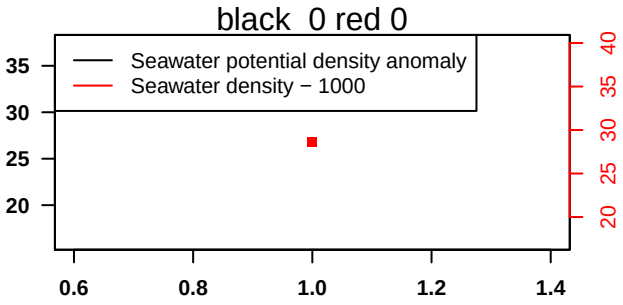

lovbio010b_065_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

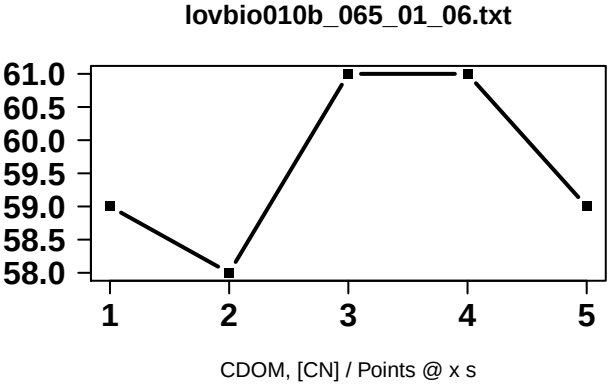

57
56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

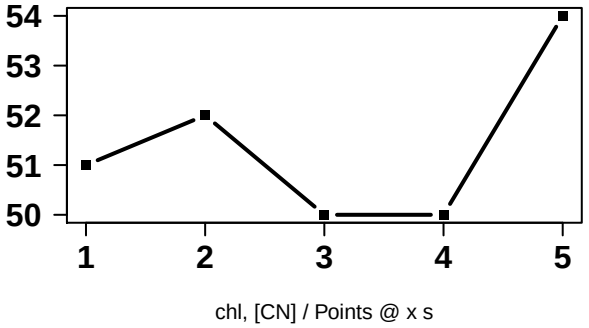

nb days: 8.3 freq: 9.9 min
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

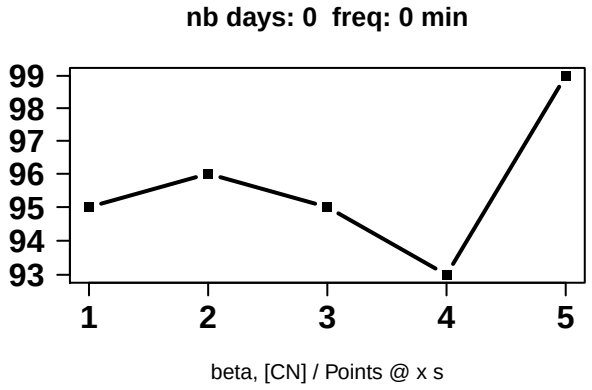

nb days: 8.3 freq: 59.4 min
0.60
0.58
0.56
0.54
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

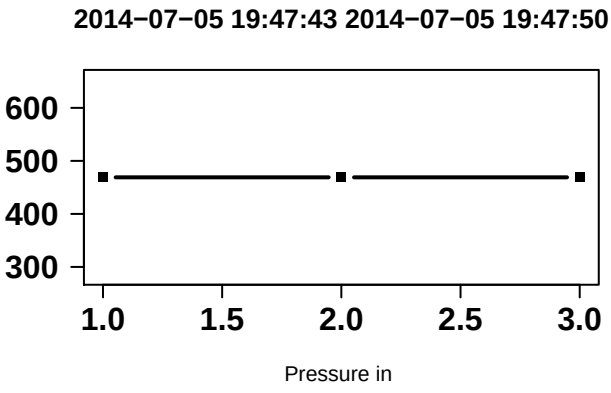

2014−07−05 13:04:32 2014−07−05 13:04:39
550
500
450
400
350
300
250
1
2
3
4
5
6
7
Pressure in

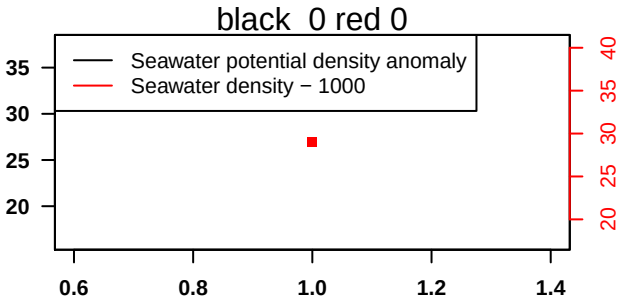

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

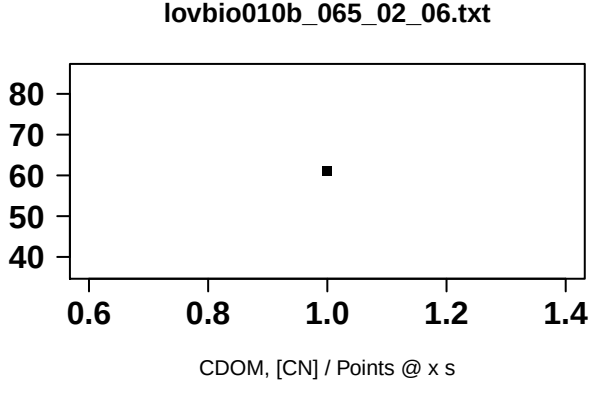

lovbio010b_065_01_06.txt
61.0
60.5
60.0
59.5
59.0
58.5
58.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

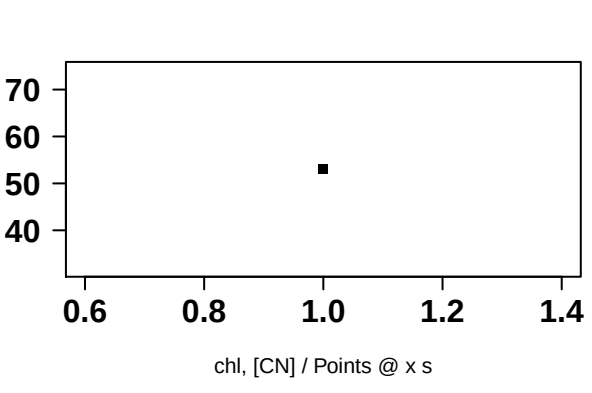

54
53
52
51
50
1
2
3
4
5
chl, [CN] / Points @ x s

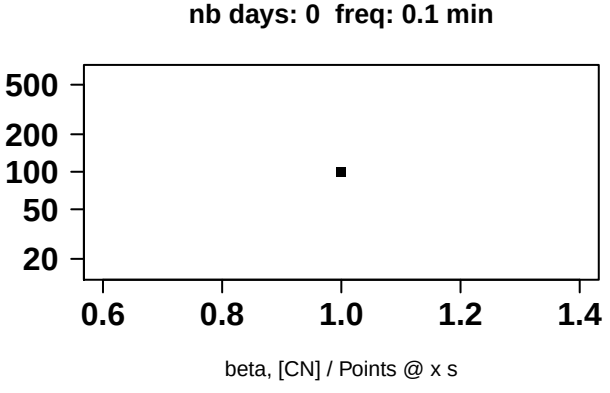

nb days: 0 freq: 0 min
99
98
97
96
95
94
93
1
2
3
4
5
beta, [CN] / Points @ x s

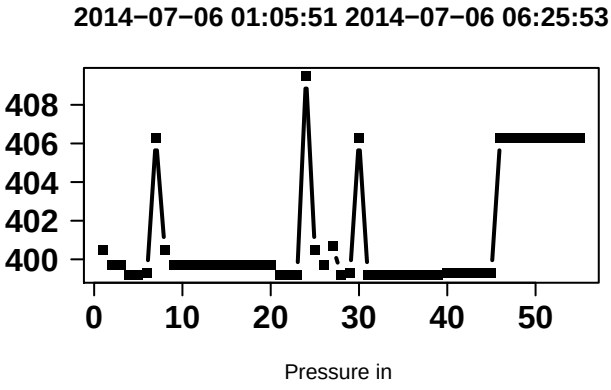

2014−07−05 19:47:43 2014−07−05 19:47:50
600
500
400
300
1.0
1.5
2.0
2.5
3.0
Pressure in

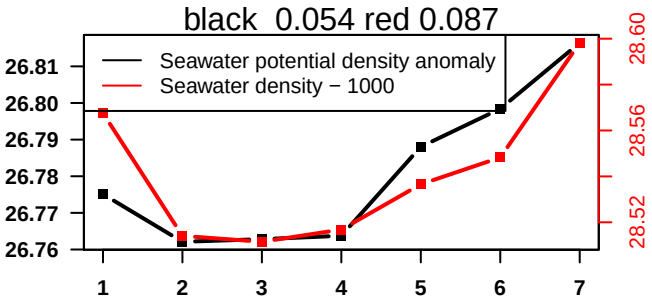

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

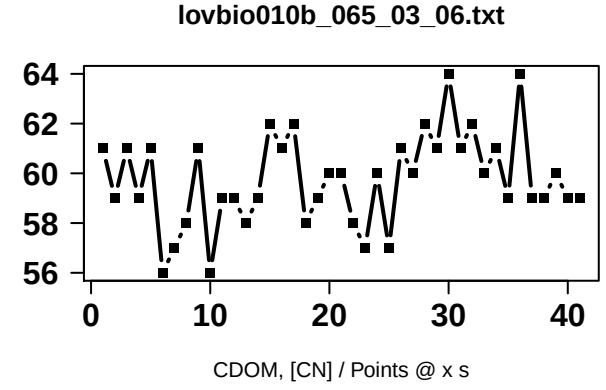

lovbio010b_065_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

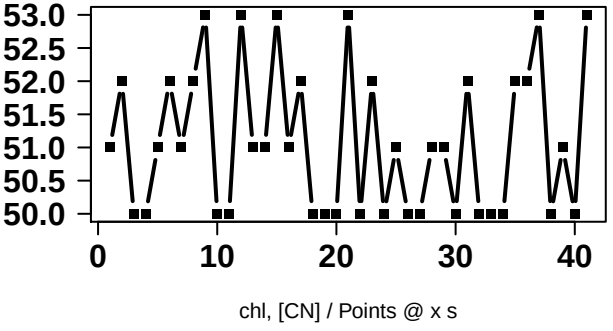

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

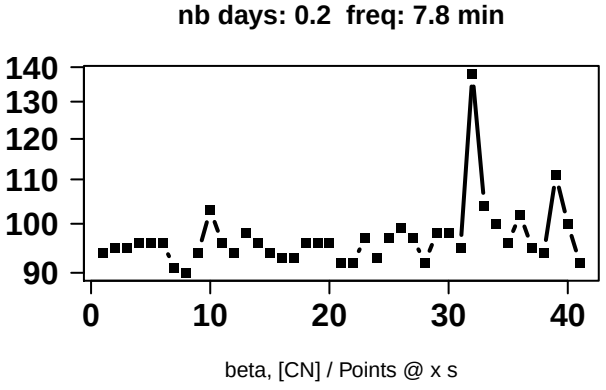

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

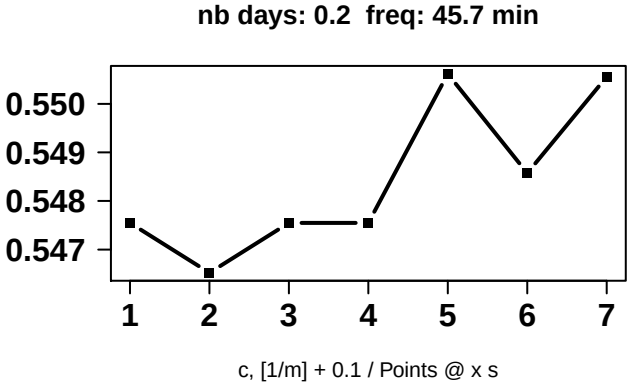

2014−07−06 01:05:51 2014−07−06 06:25:53
408
406
404
402
400
0
10
20
30
40
50
Pressure in

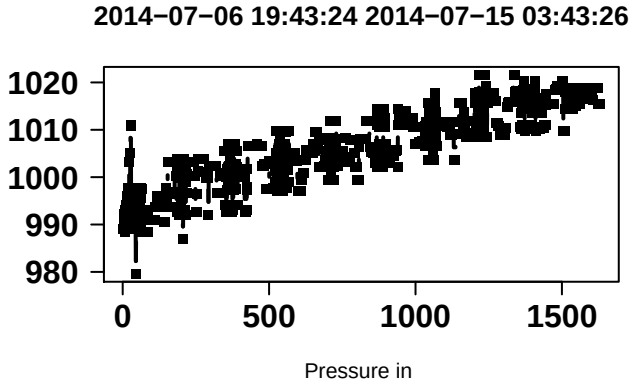

black 0.054 red 0.087
Seawater potential density anomaly
Seawater density − 1000
26.81
26.80
26.79
26.78
26.77
26.76
28.60
28.56
28.52
1
2
3
4
5
6
7

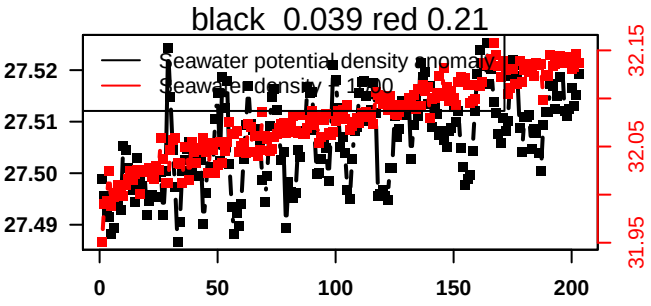

lovbio010b_065_03_06.txt
64
62
60
58
56
0
10
20
30
40
CDOM, [CN] / Points @ x s

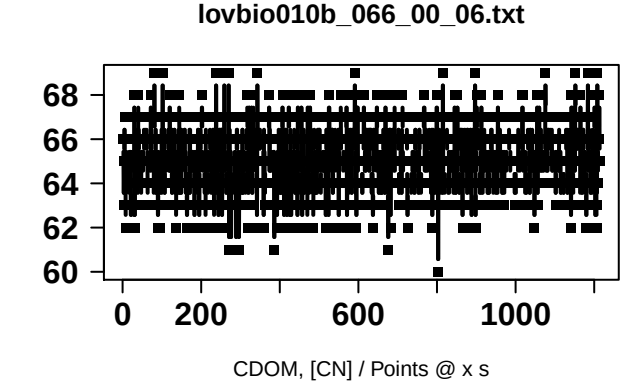

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
chl, [CN] / Points @ x s

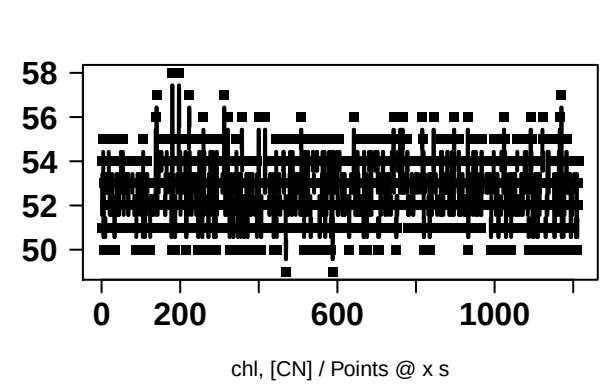

nb days: 0.2 freq: 7.8 min
140
130
120
110
100
90
0
10
20
30
40
beta, [CN] / Points @ x s

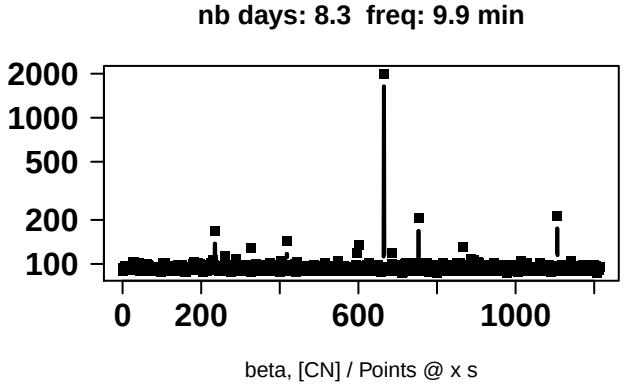

nb days: 0.2 freq: 45.7 min
0.550
0.549
0.548
0.547
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

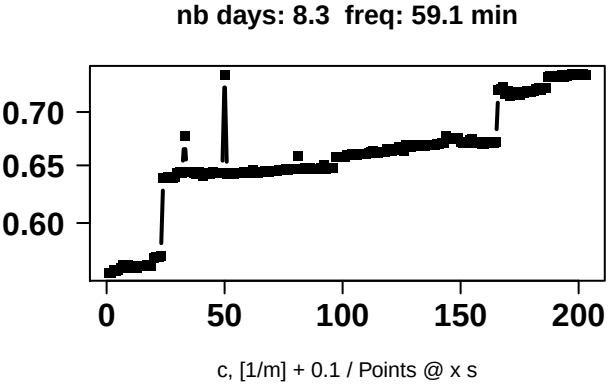

2014−07−06 19:43:24 2014−07−15 03:43:26
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

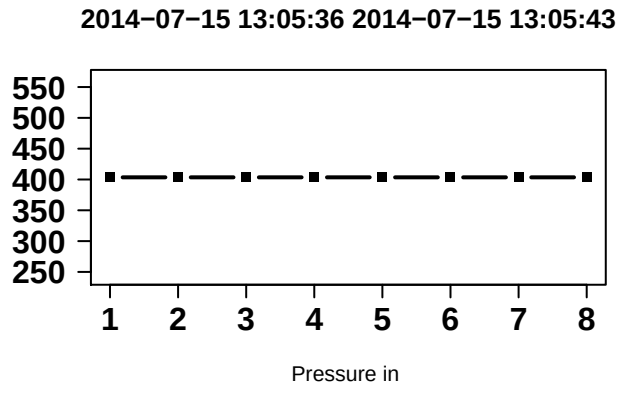

black 0.039 red 0.21
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
32.15
32.05
31.95
0
50
100
150
200

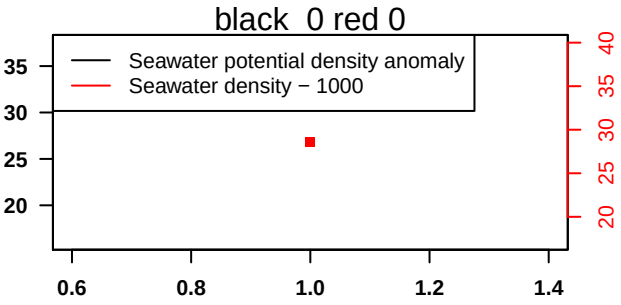

lovbio010b_066_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

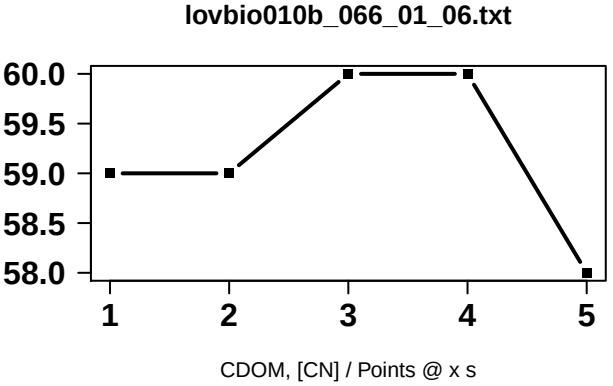

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

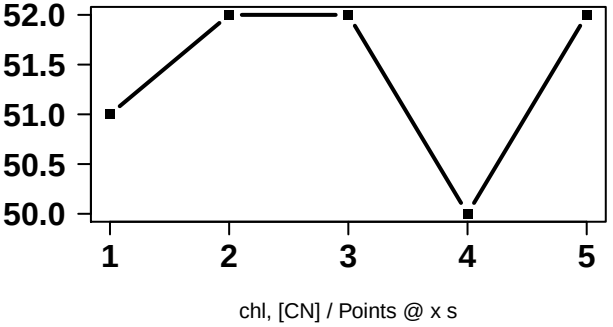

nb days: 8.3 freq: 9.9 min
2000
1000
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

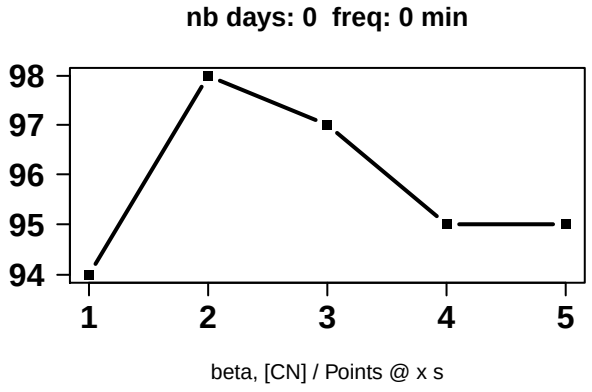

nb days: 8.3 freq: 59.1 min
0.70
0.65
0.60
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

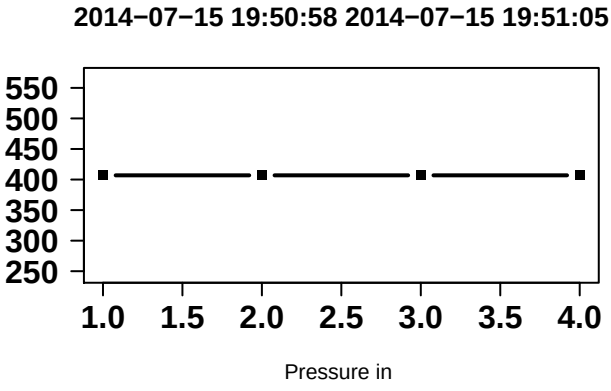

2014−07−15 13:05:36 2014−07−15 13:05:43
550
500
450
400
350
300
250
1
2
3
4
5
6
7
8
Pressure in

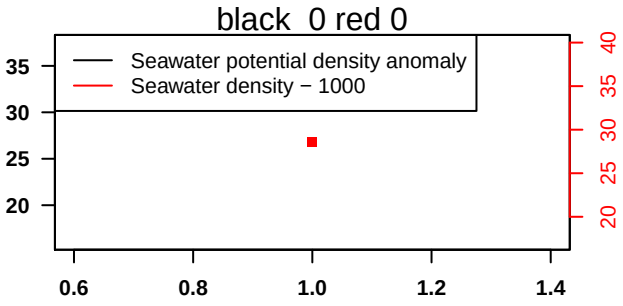

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

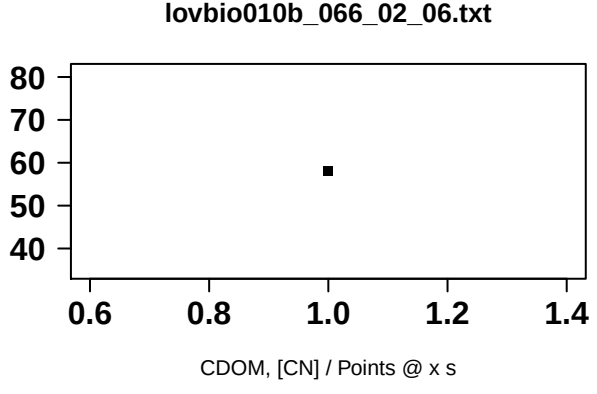

lovbio010b_066_01_06.txt
60.0
59.5
59.0
58.5
58.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

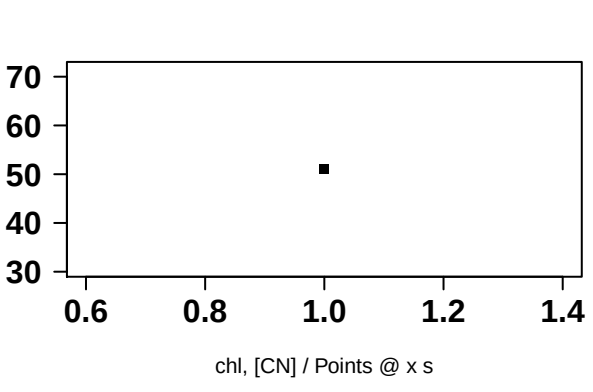

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
chl, [CN] / Points @ x s

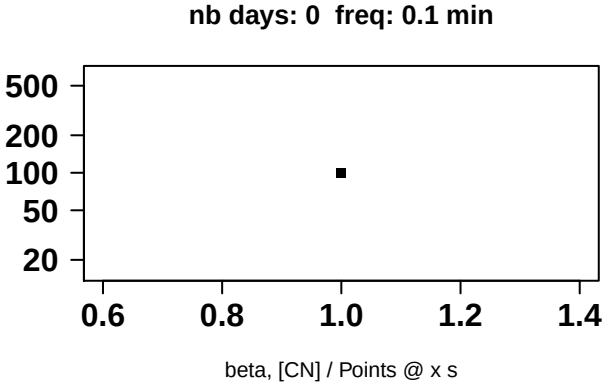

nb days: 0 freq: 0 min
98
97
96
95
94
1
2
3
4
5
beta, [CN] / Points @ x s

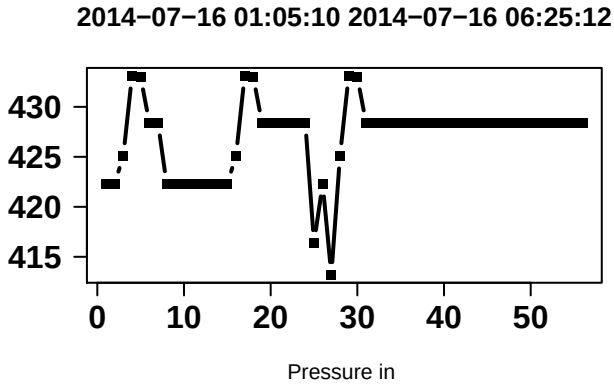

2014−07−15 19:50:58 2014−07−15 19:51:05
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

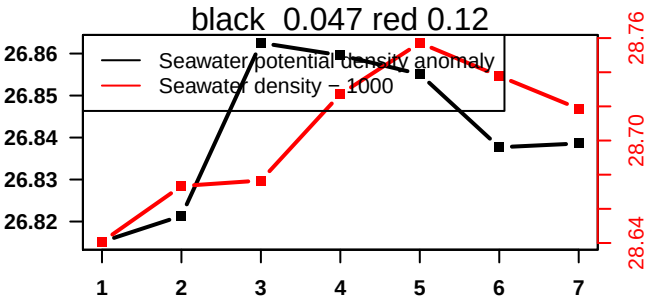

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

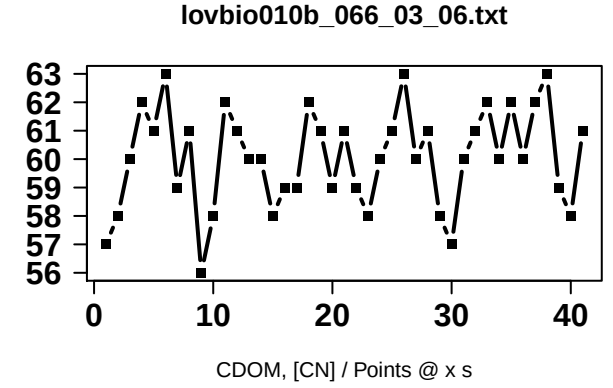

lovbio010b_066_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

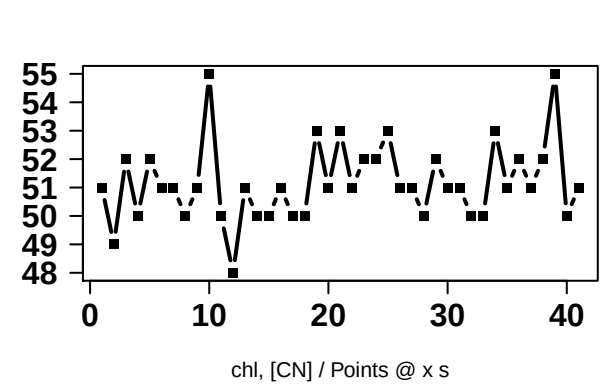

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

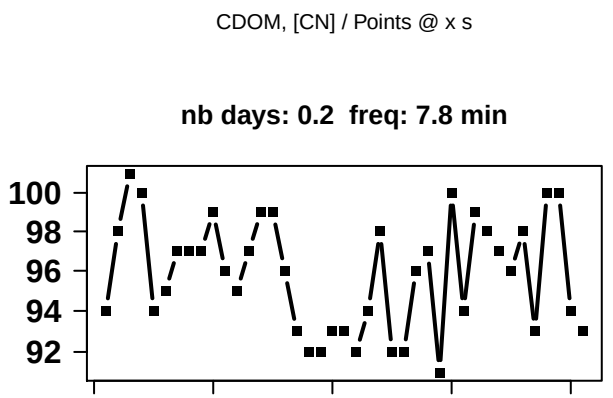

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

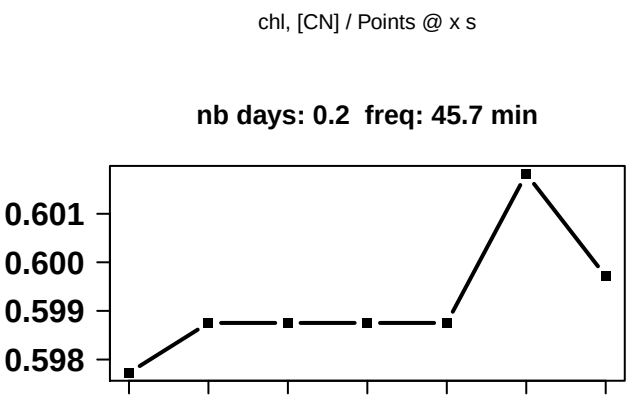

2014−07−16 01:05:10 2014−07−16 06:25:12
430
425
420
415
0
10
20
30
40
50
Pressure in

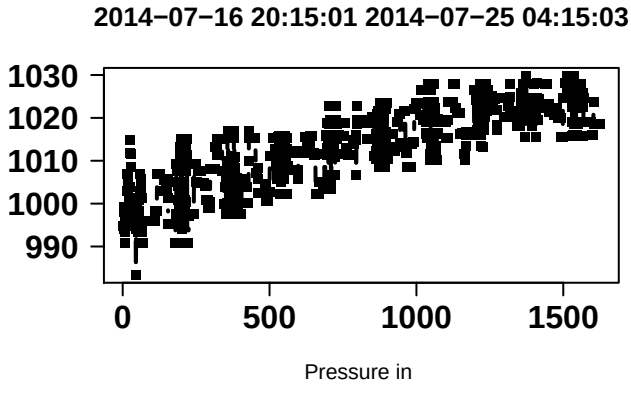

black 0.047 red 0.12
Seawater potential density anomaly
Seawater density − 1000
26.86
26.85
26.84
26.83
26.82
28.76
28.70
28.64
1
2
3
4
5
6
7

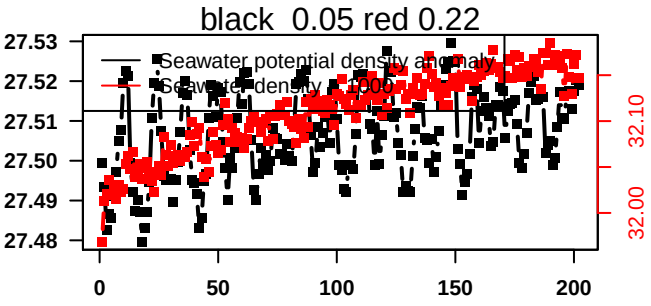

lovbio010b_066_03_06.txt
63
62
61
60
59
58
57
56
0
10
20
30
40
CDOM, [CN] / Points @ x s

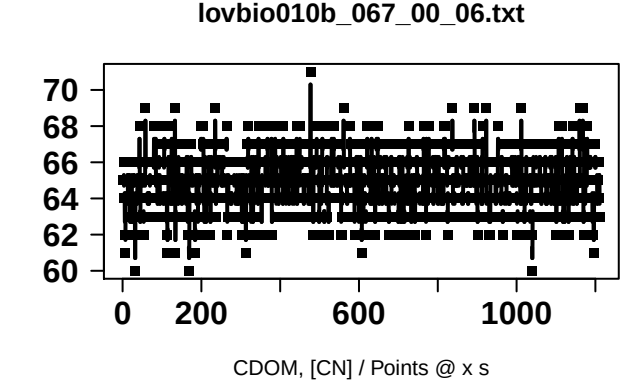

55
54
53
52
51
50
49
48
0
10
20
30
40
chl, [CN] / Points @ x s

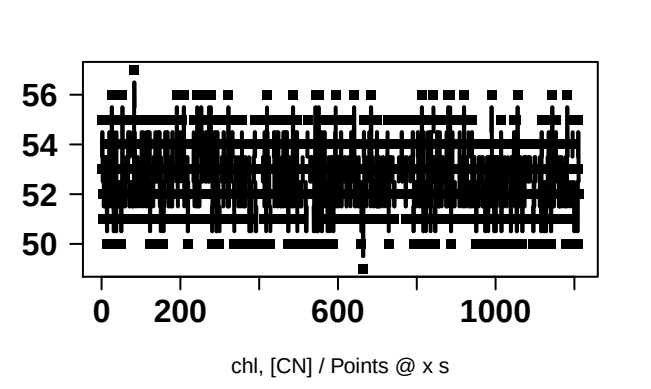

nb days: 0.2 freq: 7.8 min
100
98
96
94
92
0
10
20
30
40
beta, [CN] / Points @ x s

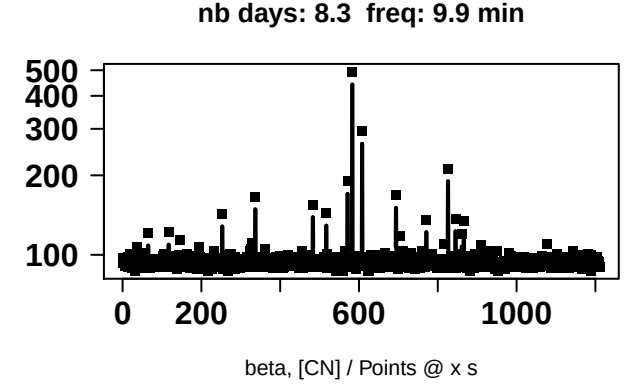

nb days: 0.2 freq: 45.7 min
0.601
0.600
0.599
0.598
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

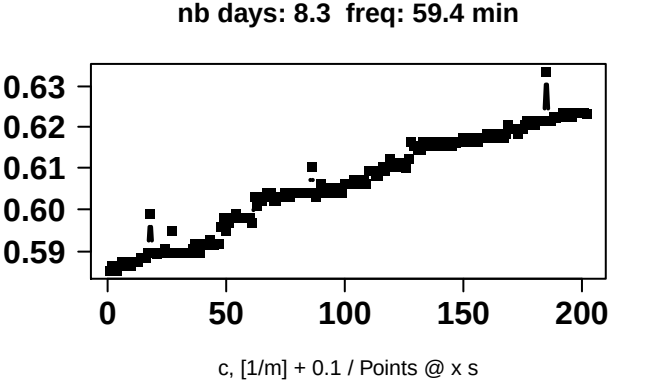

2014−07−16 20:15:01 2014−07−25 04:15:03
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

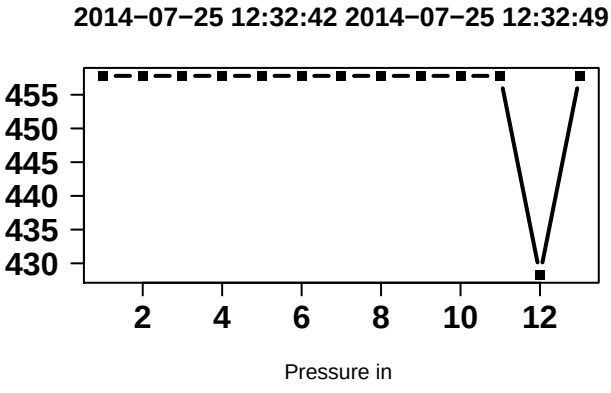

black 0.05 red 0.22
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
27.48
32.10
32.00
0
50
100
150
200

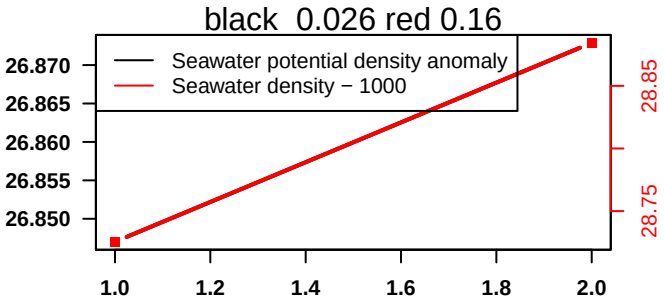

lovbio010b_067_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

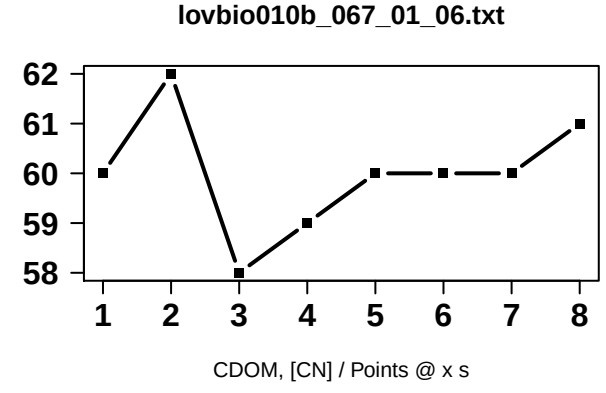

56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

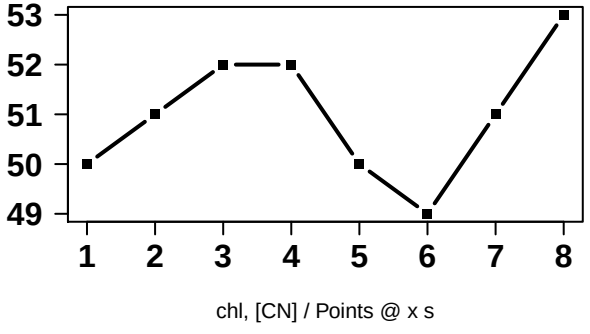

nb days: 8.3 freq: 9.9 min
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

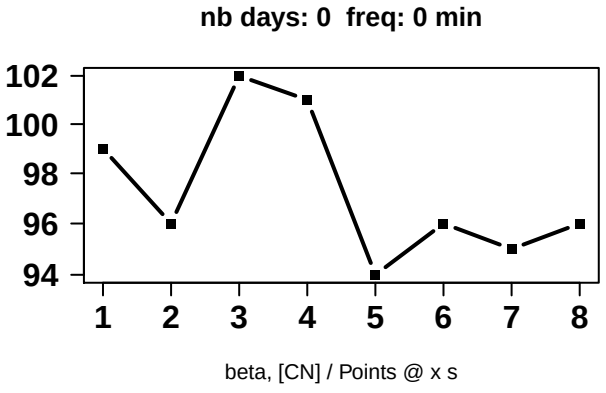

nb days: 8.3 freq: 59.4 min
0.63
0.62
0.61
0.60
0.59
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

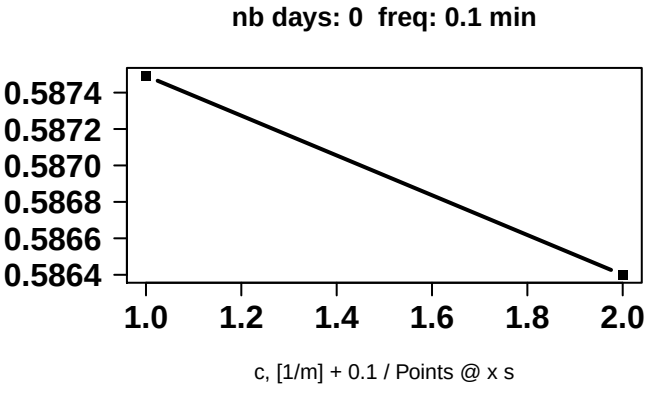

2014−07−25 12:32:42 2014−07−25 12:32:49
455
450
445
440
435
430
2
4
6
8
10
12
Pressure in

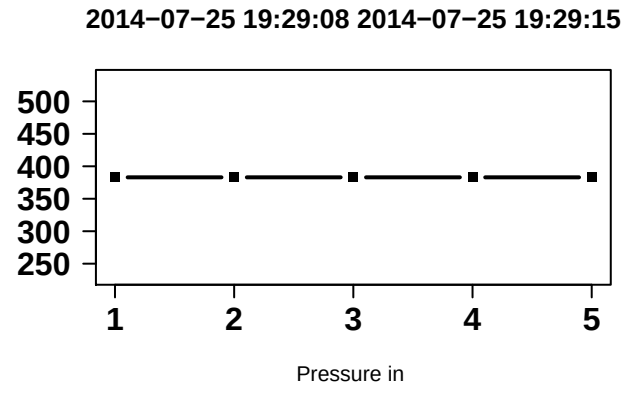

black 0.026 red 0.16
Seawater potential density anomaly
Seawater density − 1000
26.870
26.865
26.860
26.855
26.850
28.85
28.75
1.0
1.2
1.4
1.6
1.8
2.0

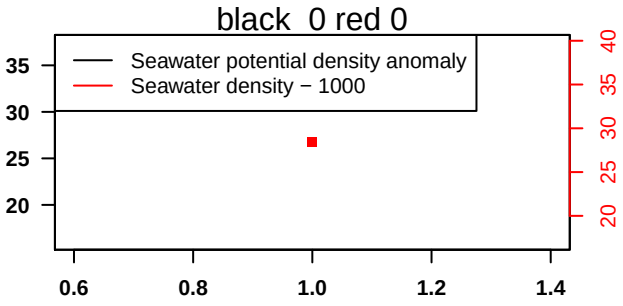

lovbio010b_067_01_06.txt
62
61
60
59
58
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

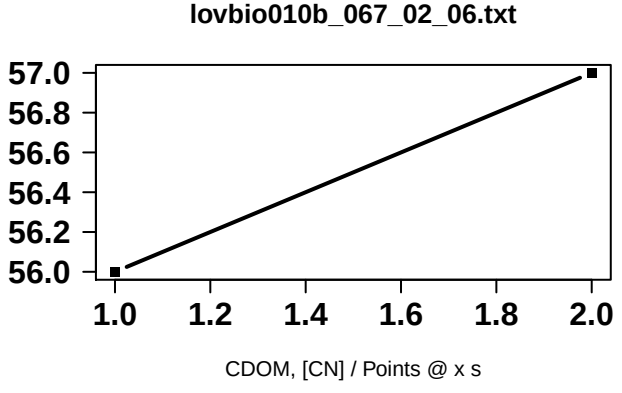

53
52
51
50
49
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

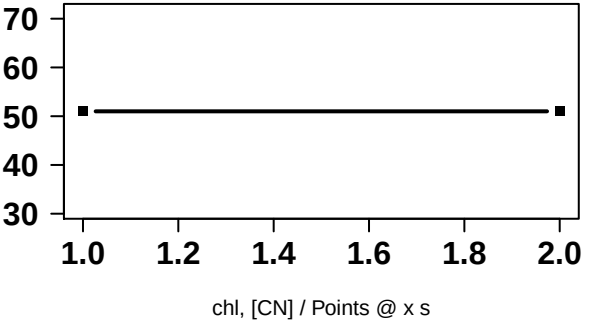

nb days: 0 freq: 0 min
102
100
98
96
94
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

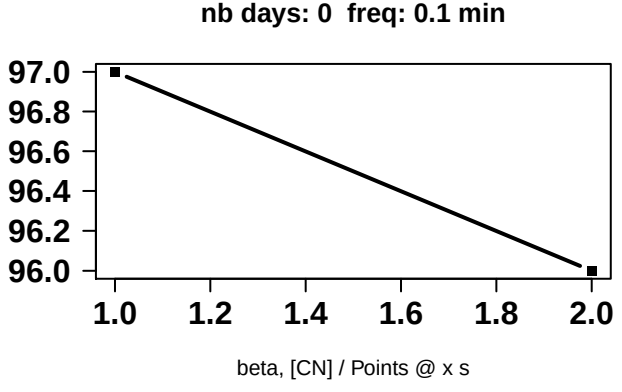

nb days: 0 freq: 0.1 min
0.5874
0.5872
0.5870
0.5868
0.5866
0.5864
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

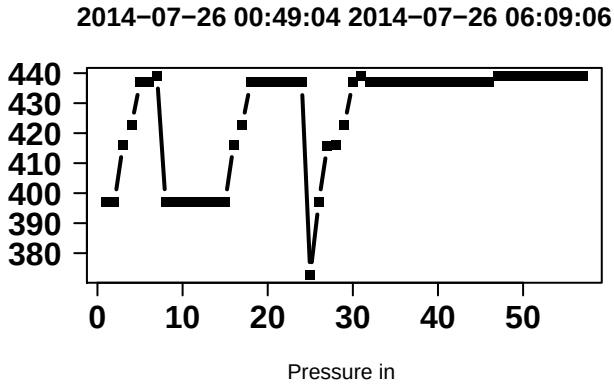

2014−07−25 19:29:08 2014−07−25 19:29:15
500
450
400
350
300
250
1
2
3
4
5
Pressure in

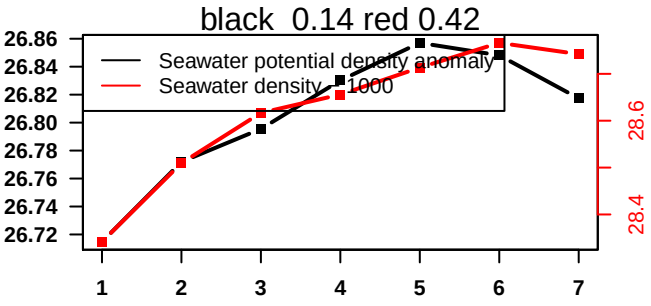

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

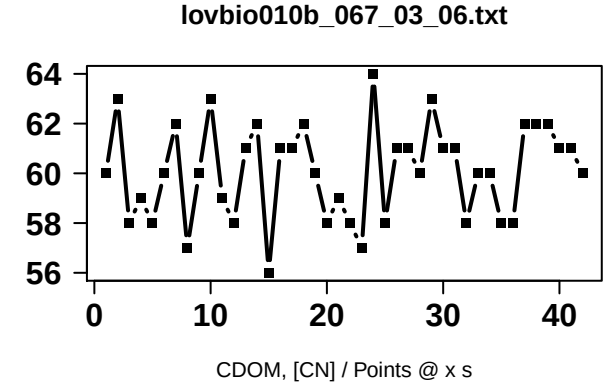

lovbio010b_067_02_06.txt
57.0
56.8
56.6
56.4
56.2
56.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

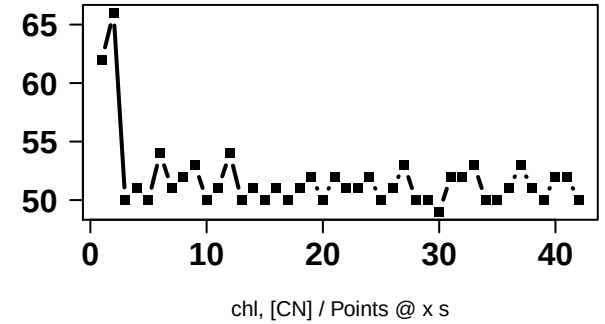

70
60
50
40
30
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

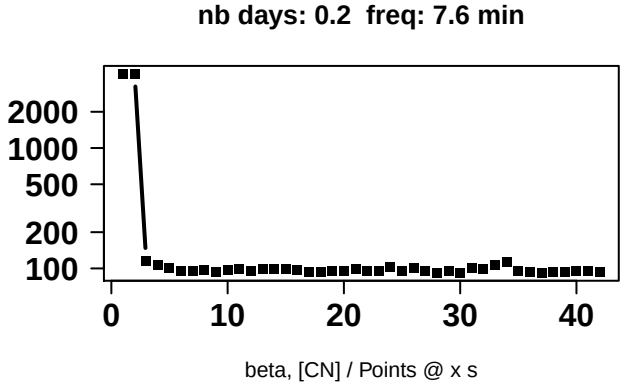

nb days: 0 freq: 0.1 min
97.0
96.8
96.6
96.4
96.2
96.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

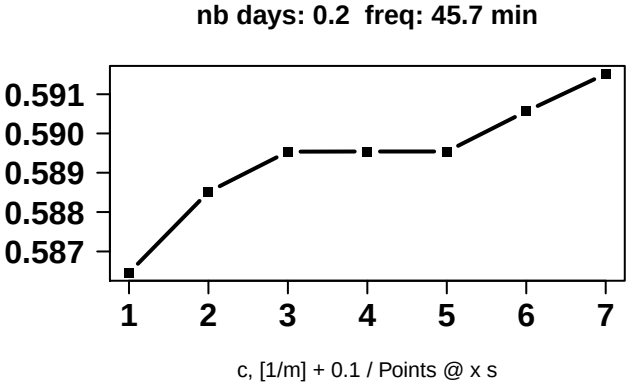

2014−07−26 00:49:04 2014−07−26 06:09:06
440
430
420
410
400
390
380
0
10
20
30
40
50
Pressure in

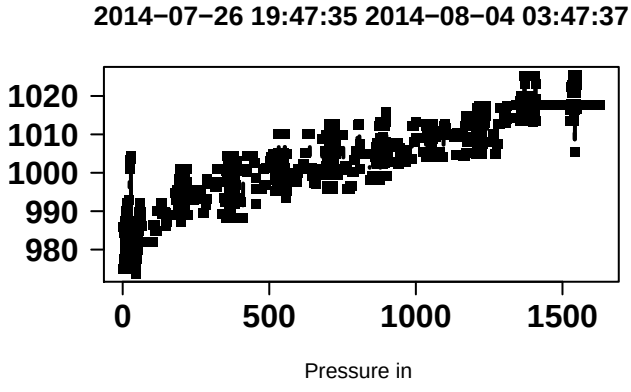

black 0.14 red 0.42
Seawater potential density anomaly
Seawater density − 1000
26.86
26.84
26.82
26.80
26.78
26.76
26.74
26.72
28.6
28.4
1
2
3
4
5
6
7

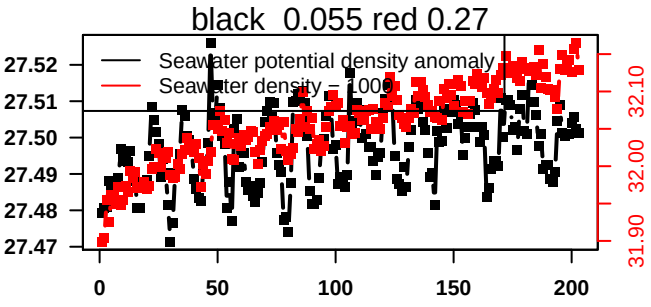

lovbio010b_067_03_06.txt
64
62
60
58
56
0
10
20
30
40
CDOM, [CN] / Points @ x s

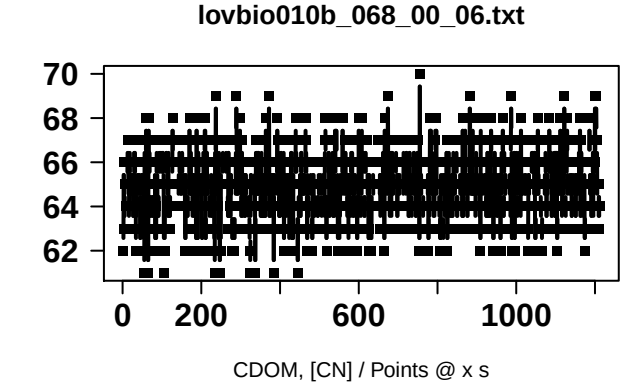

65
60
55
50
0
10
20
30
40
chl, [CN] / Points @ x s

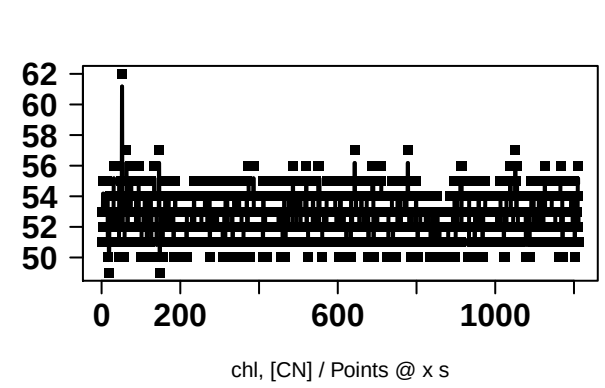

nb days: 0.2 freq: 7.6 min
2000
1000
500
200
100
0
10
20
30
40
beta, [CN] / Points @ x s

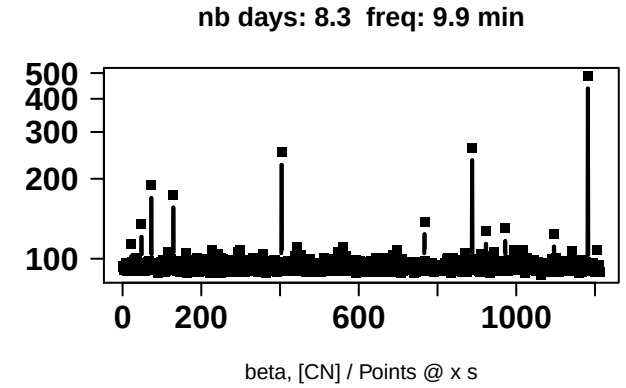

nb days: 0.2 freq: 45.7 min
0.591
0.590
0.589
0.588
0.587
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

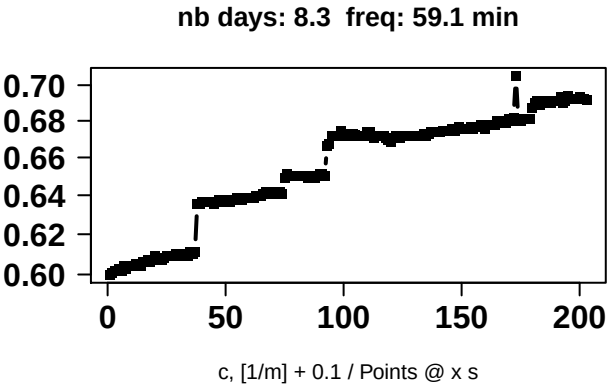

2014−07−26 19:47:35 2014−08−04 03:47:37
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

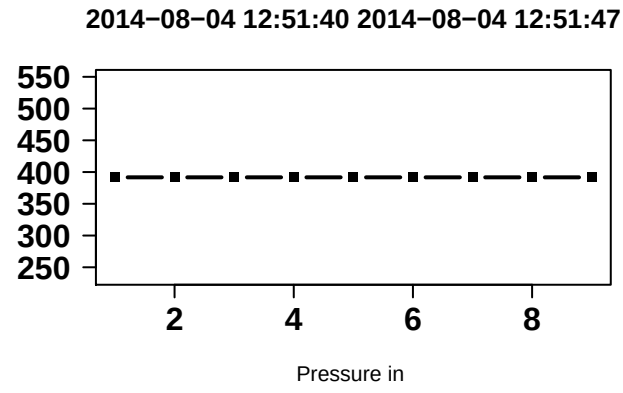

black 0.055 red 0.27
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
27.47
32.10
32.00
31.90
0
50
100
150
200

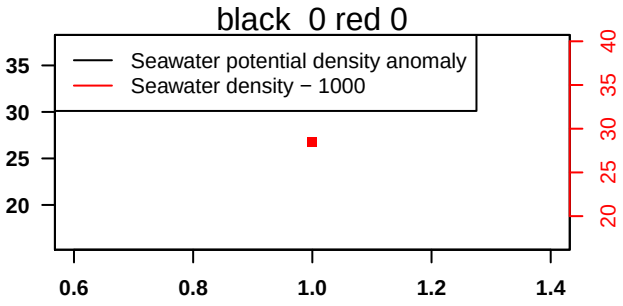

lovbio010b_068_00_06.txt
70
68
66
64
62
0
200
600
1000
CDOM, [CN] / Points @ x s

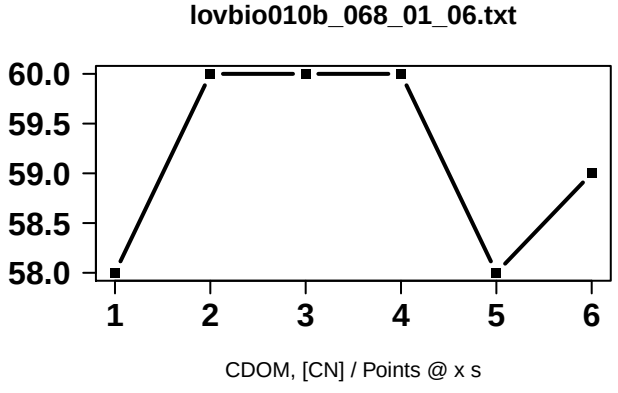

62
60
58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

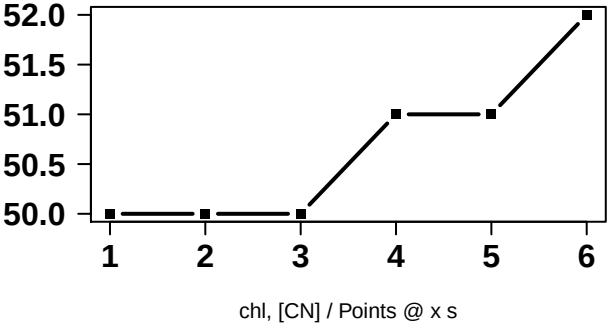

nb days: 8.3 freq: 9.9 min
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

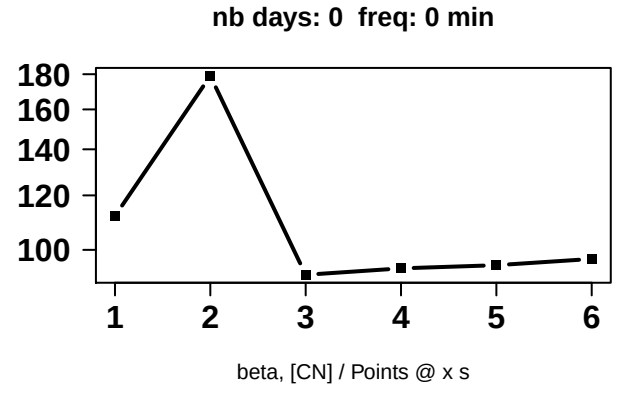

nb days: 8.3 freq: 59.1 min
0.70
0.68
0.66
0.64
0.62
0.60
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

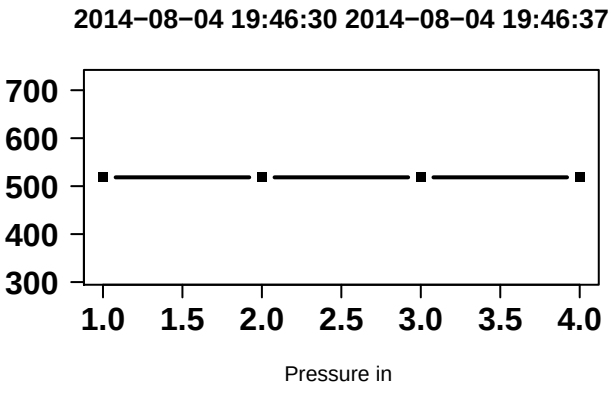

2014−08−04 12:51:40 2014−08−04 12:51:47
550
500
450
400
350
300
250
2
4
6
8
Pressure in

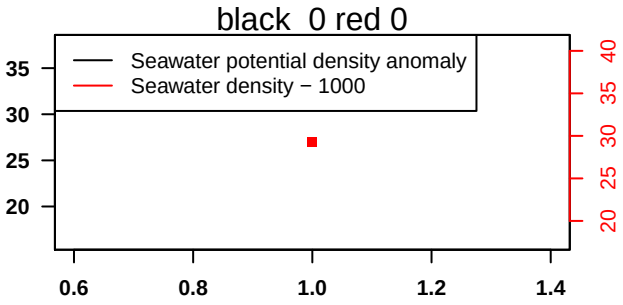

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

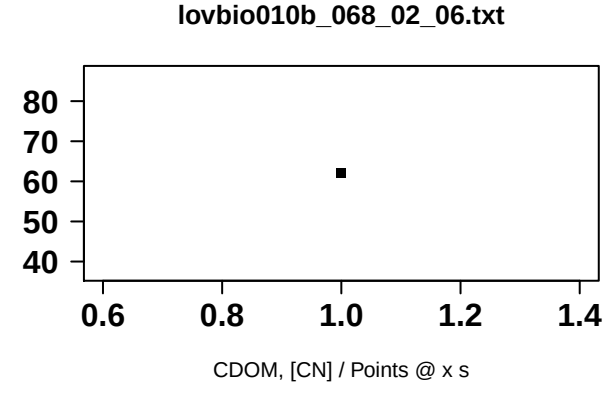

lovbio010b_068_01_06.txt
60.0
59.5
59.0
58.5
58.0
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

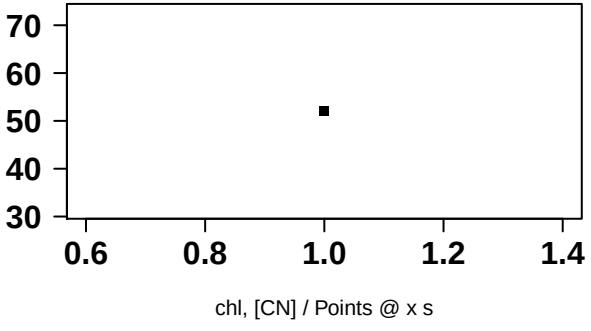

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

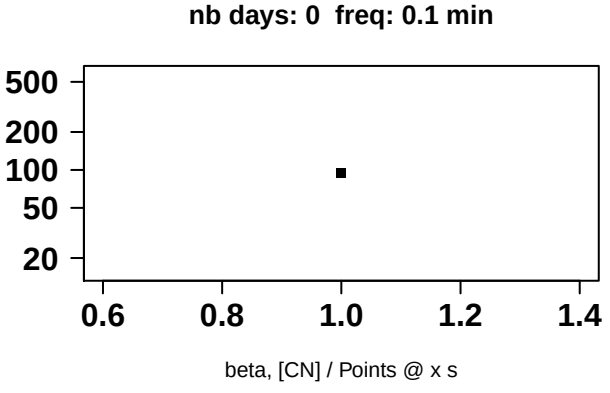

nb days: 0 freq: 0 min
180
160
140
120
100
1
2
3
4
5
6
beta, [CN] / Points @ x s

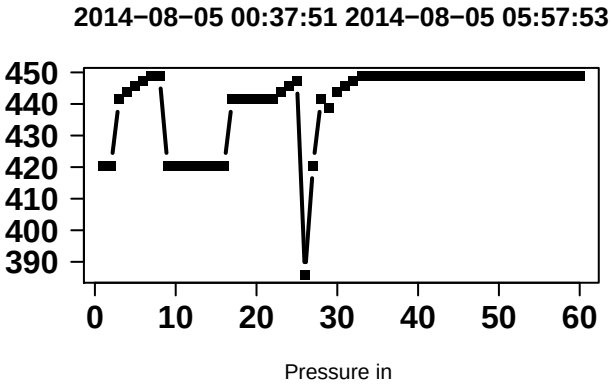

2014−08−04 19:46:30 2014−08−04 19:46:37
700
600
500
400
300
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

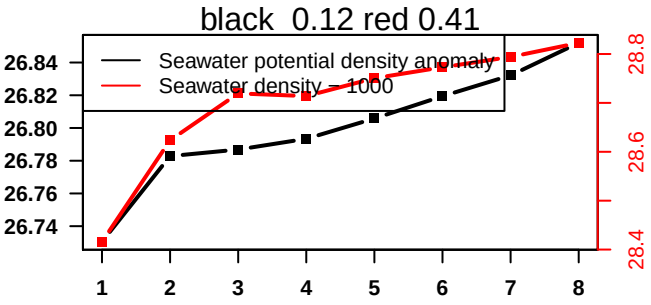

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

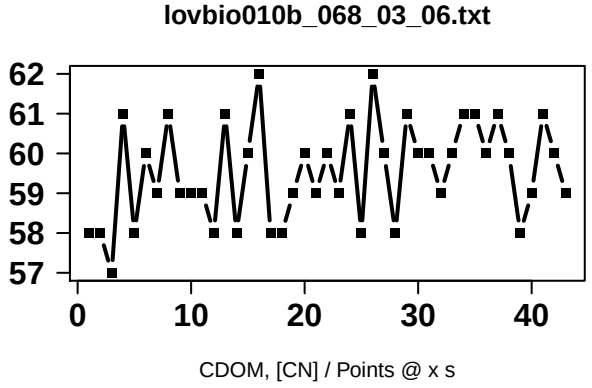

lovbio010b_068_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

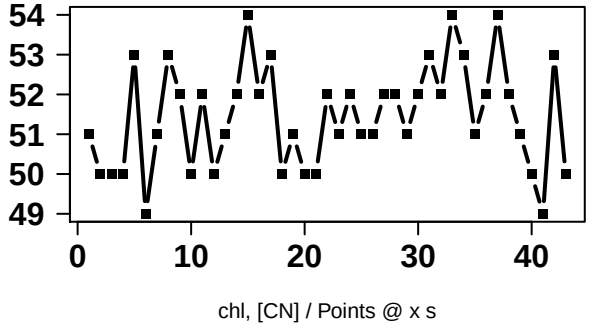

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

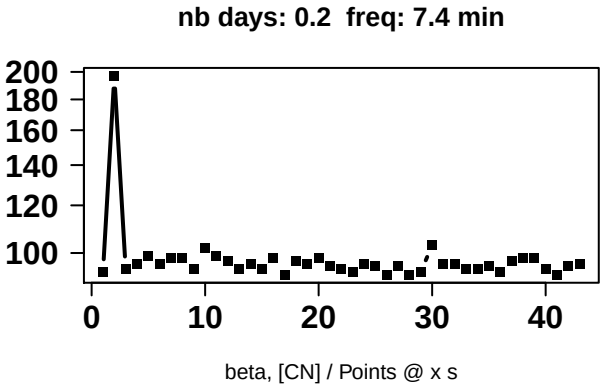

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

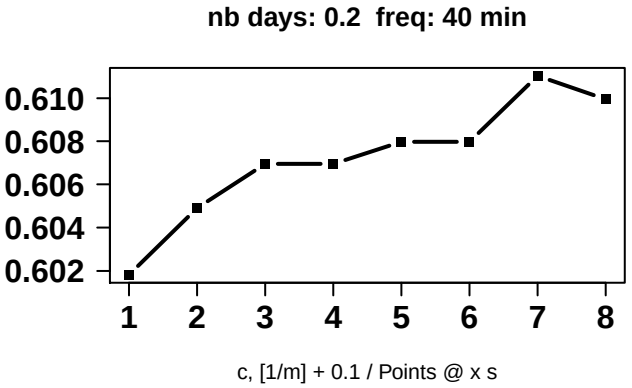

2014−08−05 00:37:51 2014−08−05 05:57:53
450
440
430
420
410
400
390
0
10
20
30
40
50
60
Pressure in

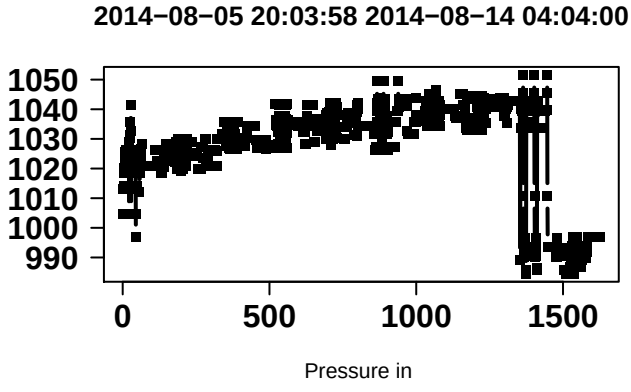

black 0.12 red 0.41
Seawater potential density anomaly
Seawater density − 1000
26.84
26.82
26.80
26.78
26.76
26.74
28.8
28.6
28.4
1
2
3
4
5
6
7
8

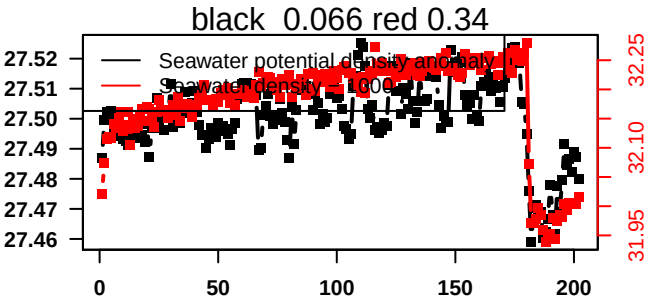

lovbio010b_068_03_06.txt
62
61
60
59
58
57
0
10
20
30
40
CDOM, [CN] / Points @ x s

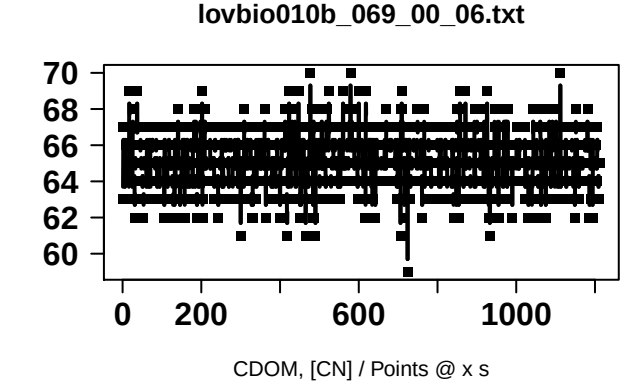

54
53
52
51
50
49
0
10
20
30
40
chl, [CN] / Points @ x s

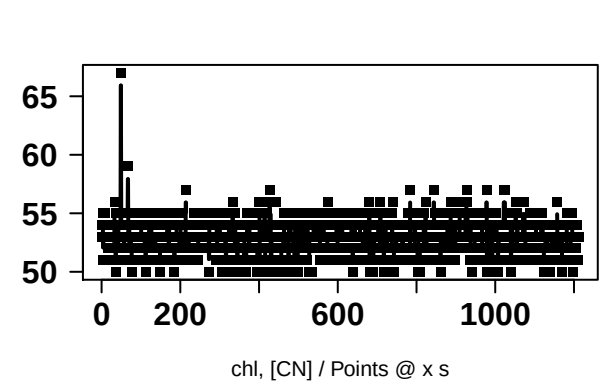

nb days: 0.2 freq: 7.4 min
200
180
160
140
120
100
0
10
20
30
40
beta, [CN] / Points @ x s

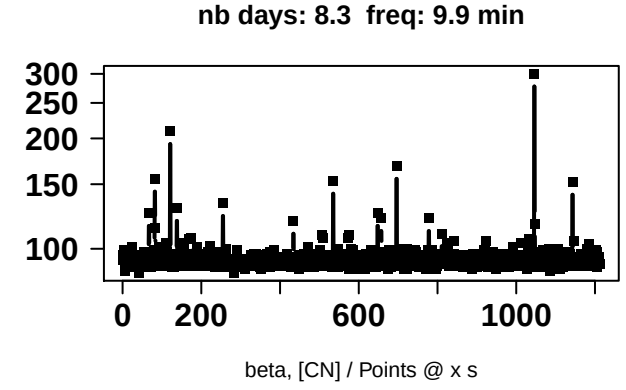

nb days: 0.2 freq: 40 min
0.610
0.608
0.606
0.604
0.602
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

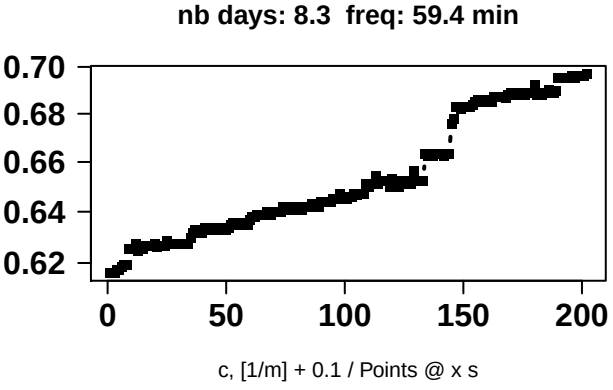

2014−08−05 20:03:58 2014−08−14 04:04:00
1050
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

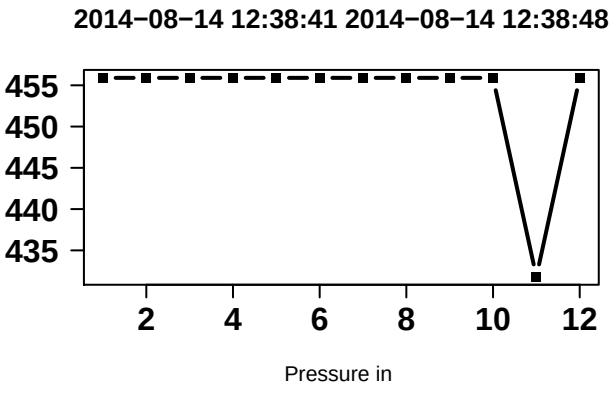

black 0.066 red 0.34
Seawater potential density anomaly [k
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
27.47
27.46
32.25
32.10
31.95
0
50
100
150
200

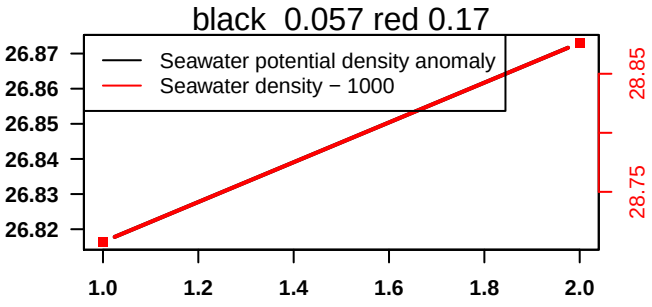

lovbio010b_069_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

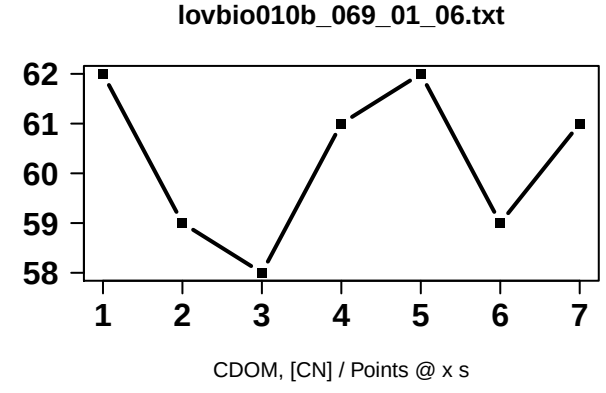

65
60
55
50
0
200
600
1000
chl, [CN] / Points @ x s

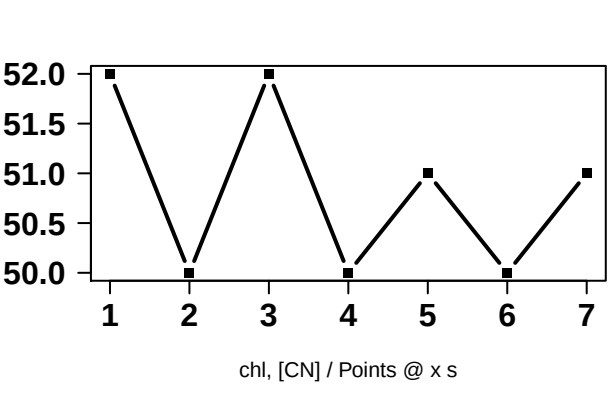

nb days: 8.3 freq: 9.9 min
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

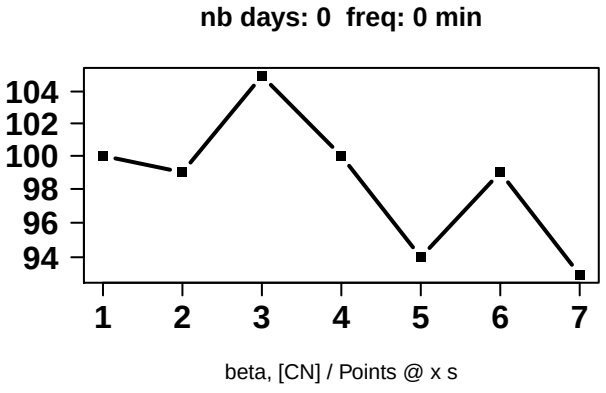

nb days: 8.3 freq: 59.4 min
0.70
0.68
0.66
0.64
0.62
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

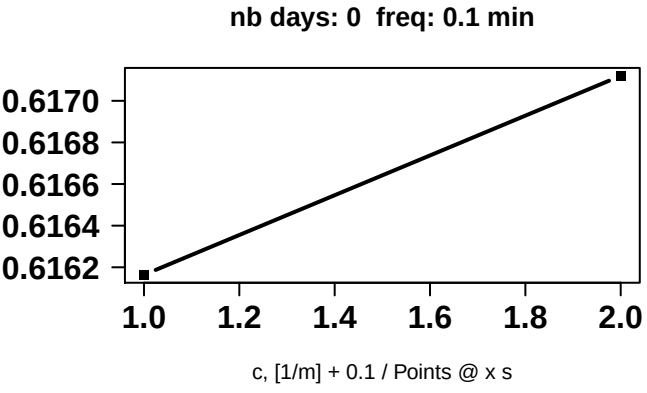

2014−08−14 12:38:41 2014−08−14 12:38:48
455
450
445
440
435
2
4
6
8
10
12
Pressure in

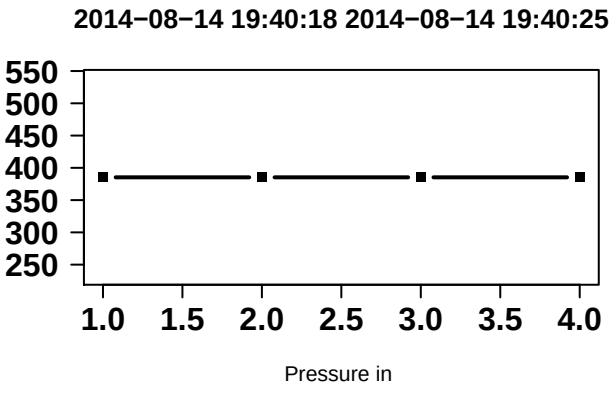

black 0.057 red 0.17
Seawater potential density anomaly
Seawater density − 1000
26.87
26.86
26.85
26.84
26.83
26.82
1.0
1.2
1.4
1.6
1.8
2.0
28.85
28.75

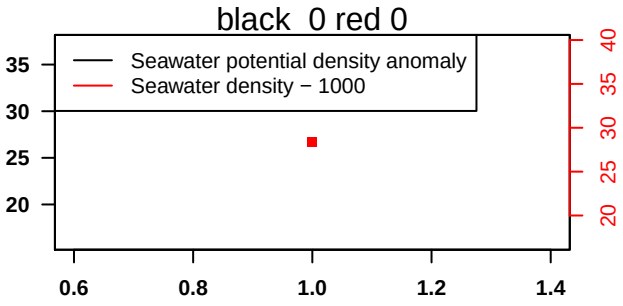

lovbio010b_069_01_06.txt
62
61
60
59
58
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

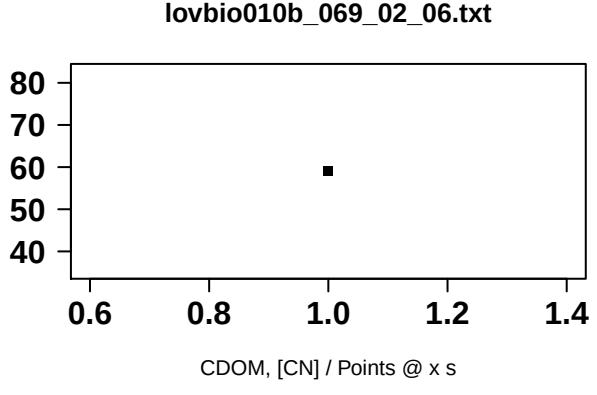

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

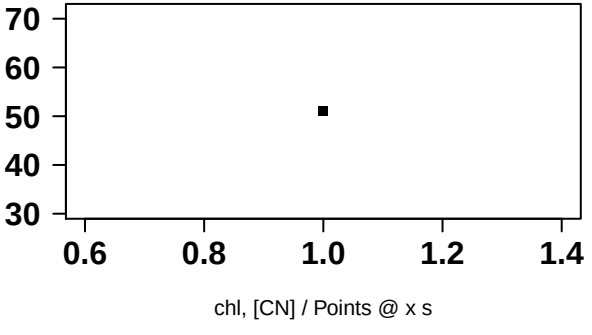

nb days: 0 freq: 0 min
104
102
100
98
96
94
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

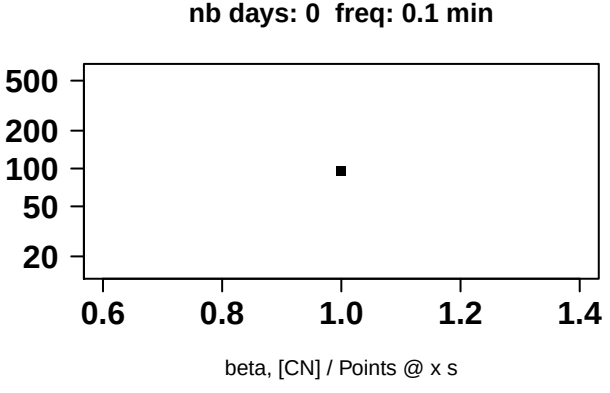

nb days: 0 freq: 0.1 min
0.6170
0.6168
0.6166
0.6164
0.6162
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

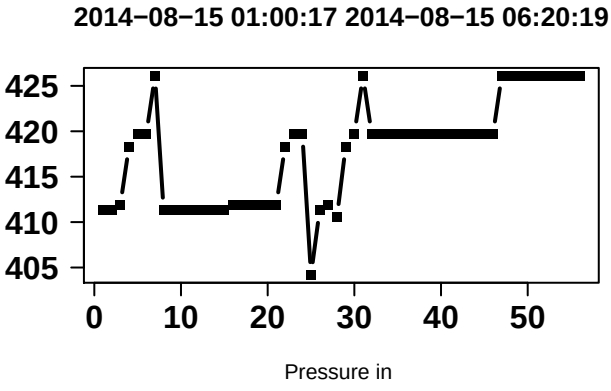

2014−08−14 19:40:18 2014−08−14 19:40:25
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

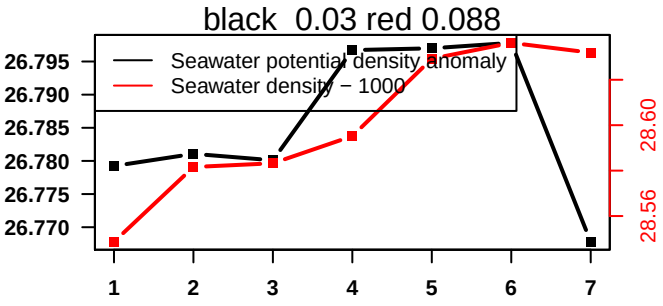

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

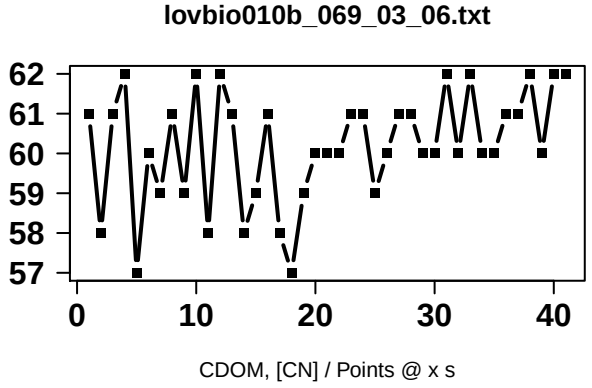

lovbio010b_069_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

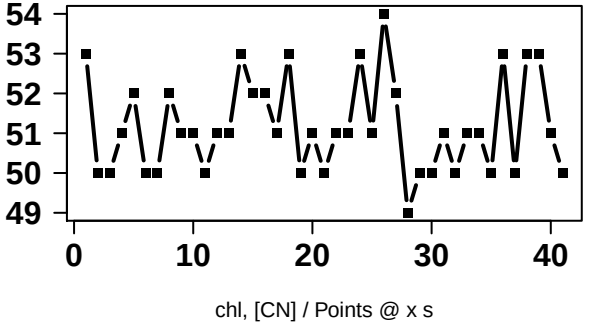

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

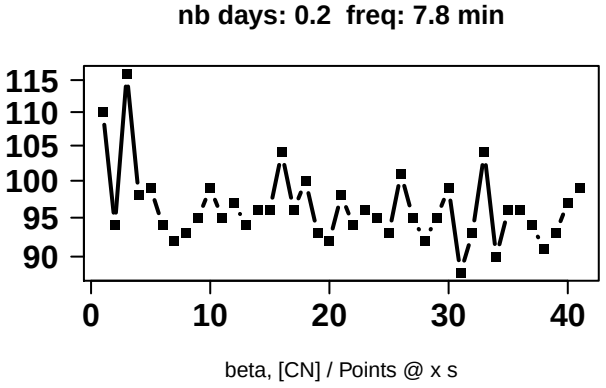

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

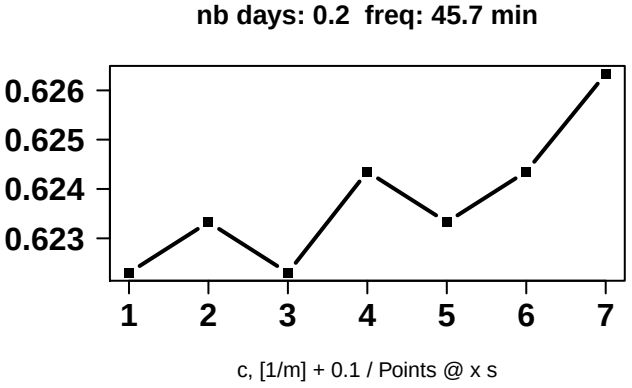

2014−08−15 01:00:17 2014−08−15 06:20:19
425
420
415
410
405
0
10
20
30
40
50
Pressure in

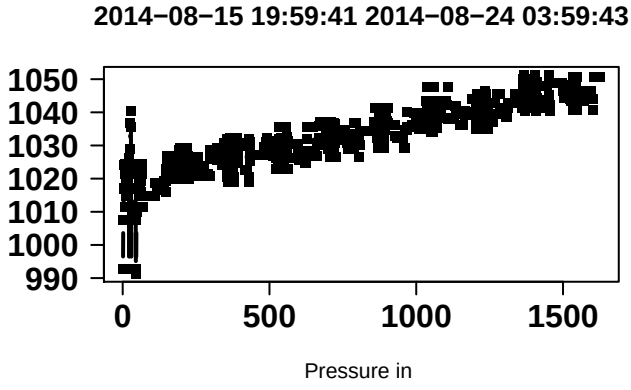

black 0.03 red 0.088
Seawater potential density anomaly
Seawater density − 1000
26.795
26.790
26.785
26.780
26.775
26.770
28.60
28.56
1
2
3
4
5
6
7

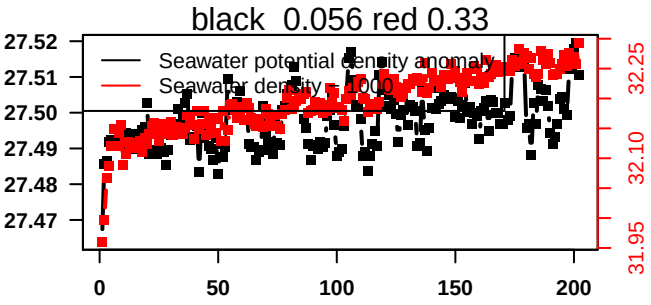

lovbio010b_069_03_06.txt
62
61
60
59
58
57
0
10
20
30
40
CDOM, [CN] / Points @ x s

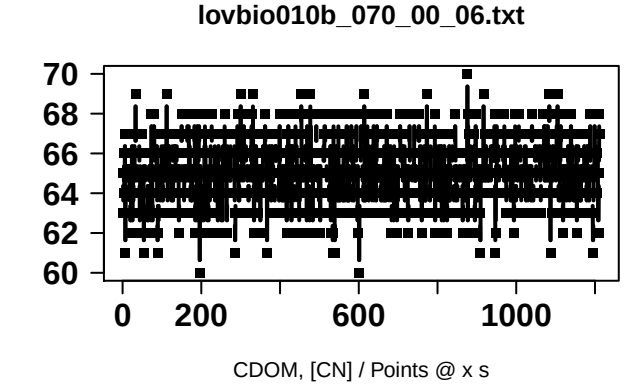

54
53
52
51
50
49
0
10
20
30
40
chl, [CN] / Points @ x s

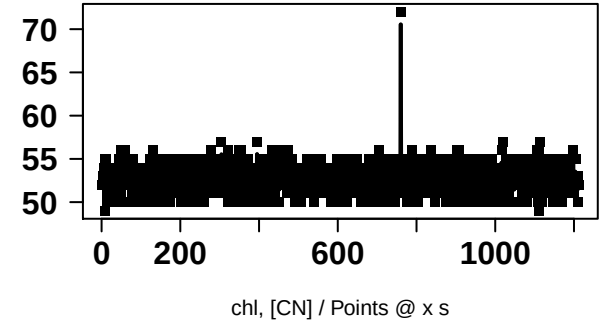

nb days: 0.2 freq: 7.8 min
115
110
105
100
95
90
0
10
20
30
40
beta, [CN] / Points @ x s

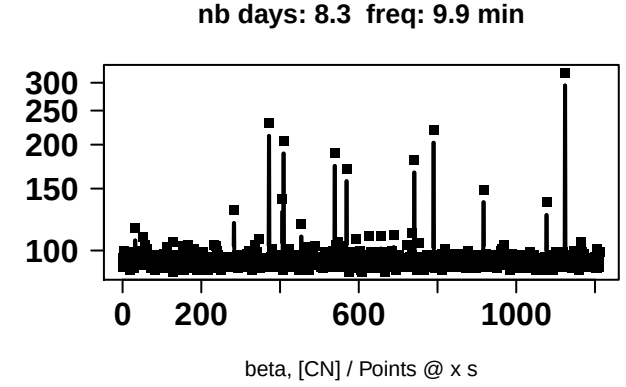

nb days: 0.2 freq: 45.7 min
0.626
0.625
0.624
0.623
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

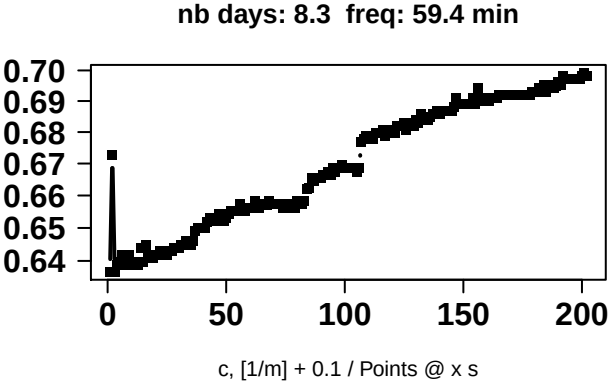

2014−08−15 19:59:41 2014−08−24 03:59:43
1050
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

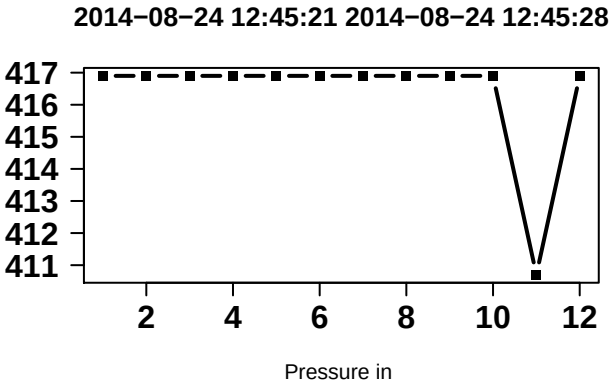

black 0.056 red 0.33
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
27.47
32.25
32.10
31.95
0
50
100
150
200

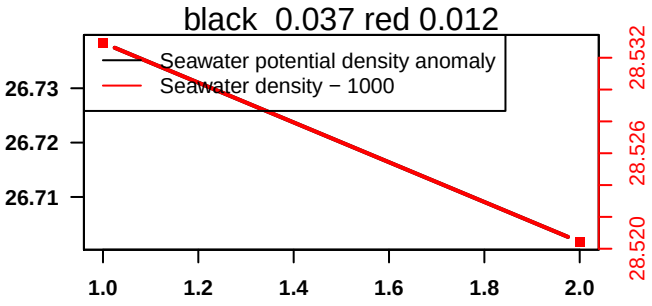

lovbio010b_070_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

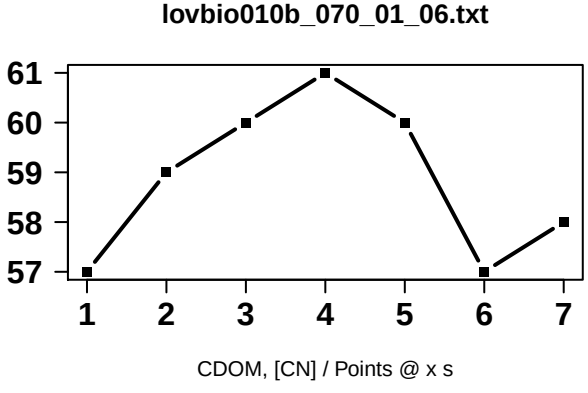

70
65
60
55
50
0
200
600
1000
chl, [CN] / Points @ x s

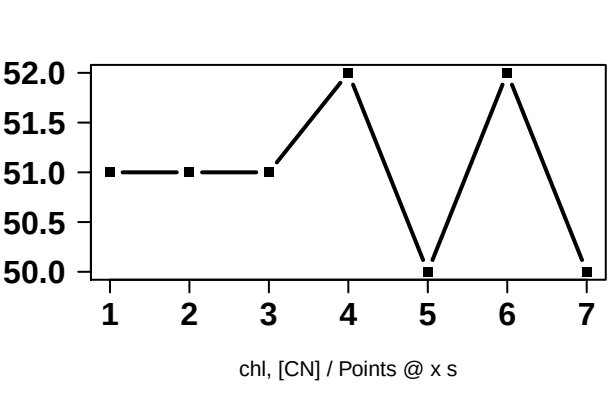

nb days: 8.3 freq: 9.9 min
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

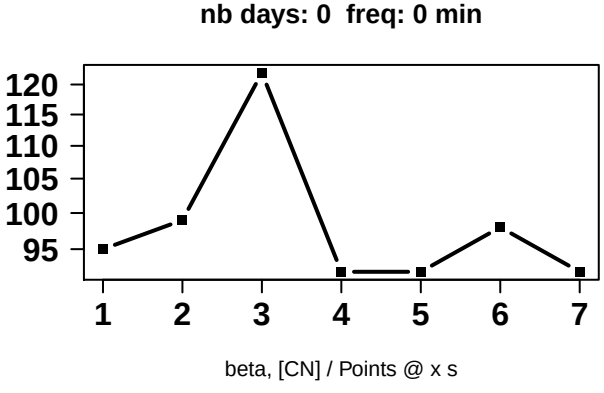

nb days: 8.3 freq: 59.4 min
0.70
0.69
0.68
0.67
0.66
0.65
0.64
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

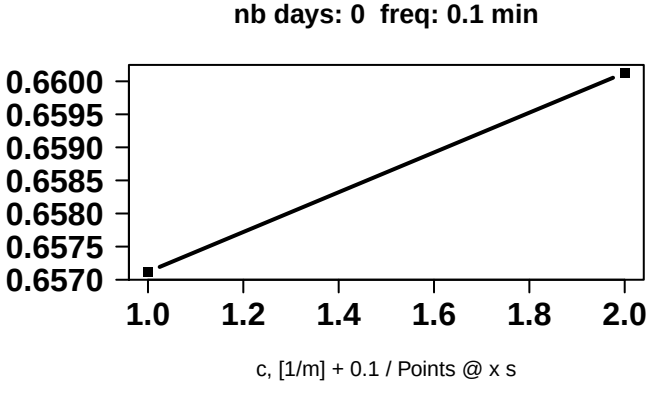

2014−08−24 12:45:21 2014−08−24 12:45:28
417
416
415
414
413
412
411
2
4
6
8
10
12
Pressure in

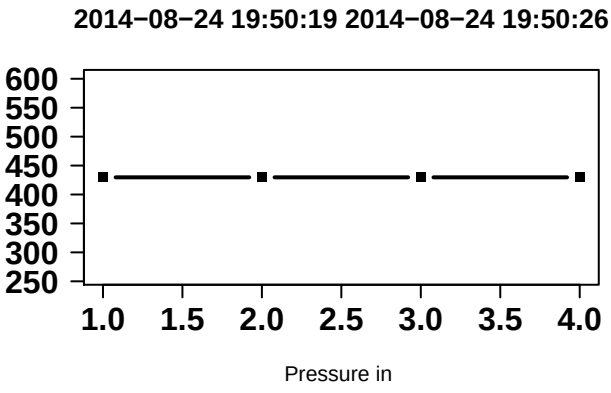

black 0.037 red 0.012
Seawater potential density anomaly
Seawater density − 1000
26.73
26.72
26.71
28.532
28.526
28.520
1.0
1.2
1.4
1.6
1.8
2.0

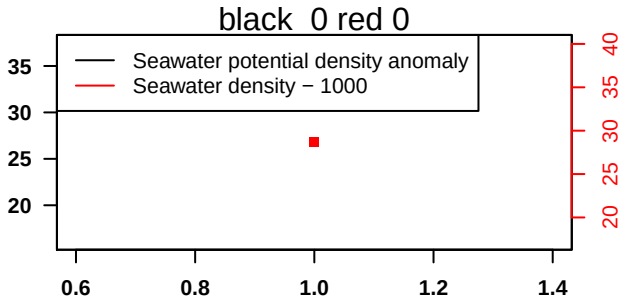

lovbio010b_070_01_06.txt
61
60
59
58
57
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

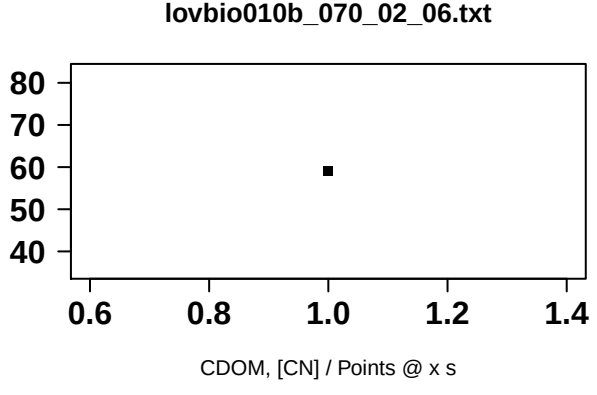

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

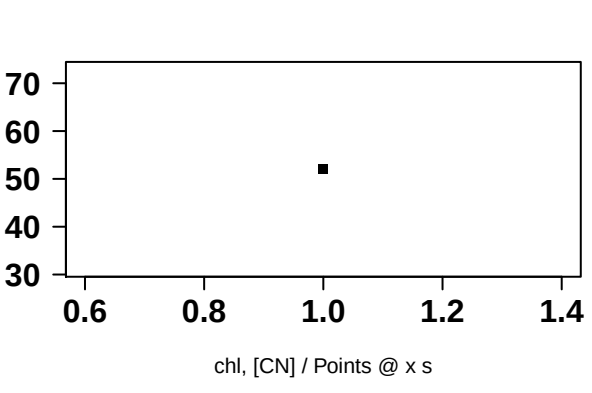

nb days: 0 freq: 0 min
120
115
110
105
100
95
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

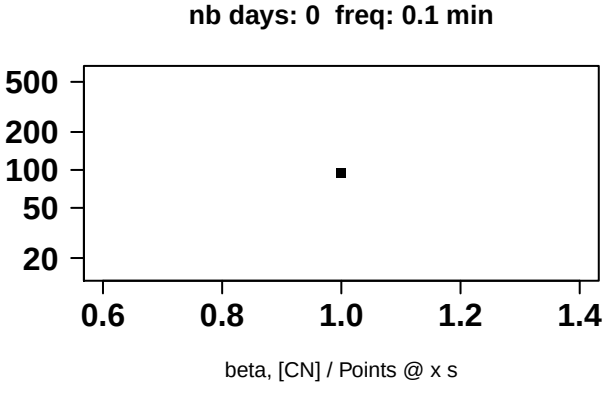

nb days: 0 freq: 0.1 min
0.6600
0.6595
0.6590
0.6585
0.6580
0.6575
0.6570
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

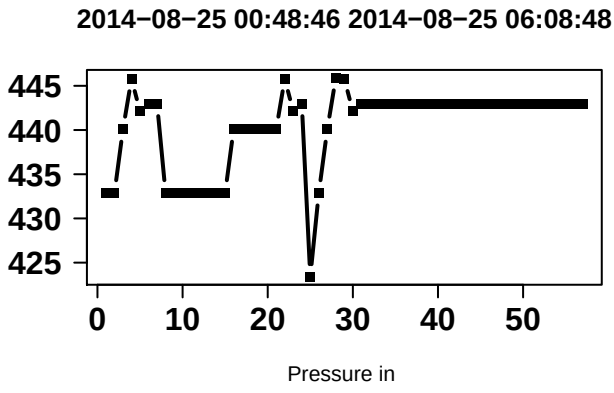

2014−08−24 19:50:19 2014−08−24 19:50:26
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

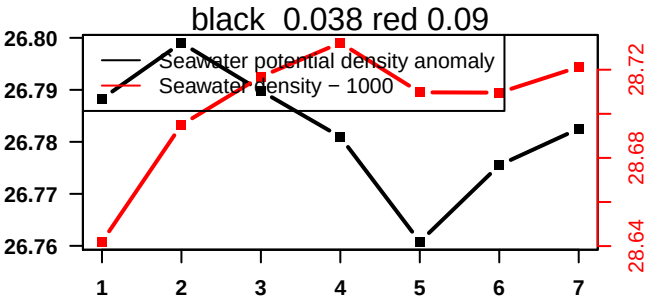

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

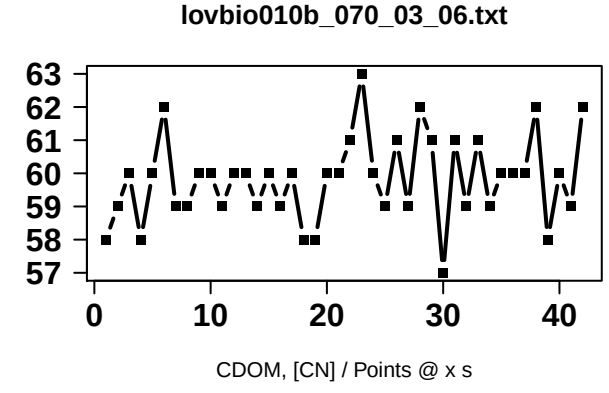

lovbio010b_070_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

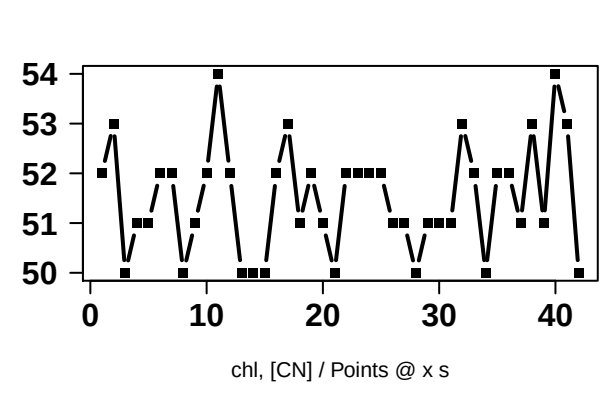

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

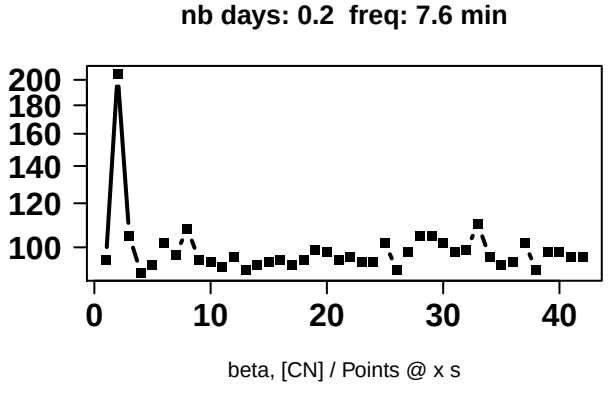

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

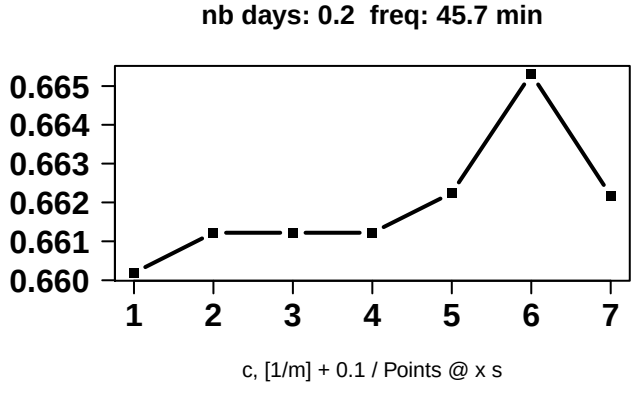

2014−08−25 00:48:46 2014−08−25 06:08:48
445
440
435
430
425
0
10
20
30
40
50
Pressure in

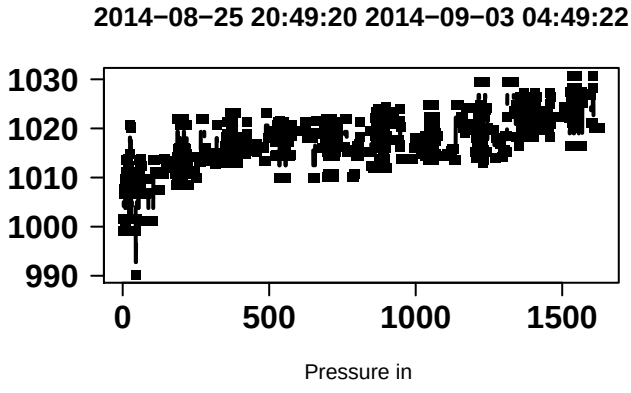

black 0.038 red 0.09
Seawater potential density anomaly
Seawater density − 1000
26.80
26.79
26.78
26.77
26.76
28.72
28.68
28.64
1
2
3
4
5
6
7

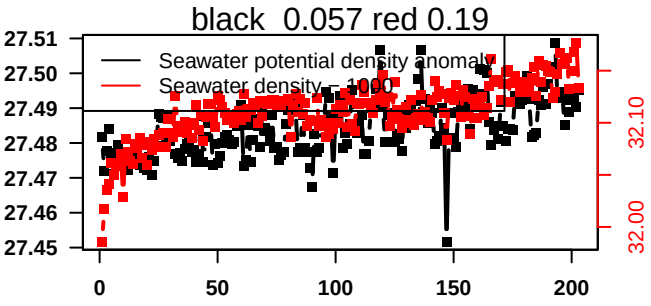

lovbio010b_070_03_06.txt
63
62
61
60
59
58
57
0
10
20
30
40
CDOM, [CN] / Points @ x s

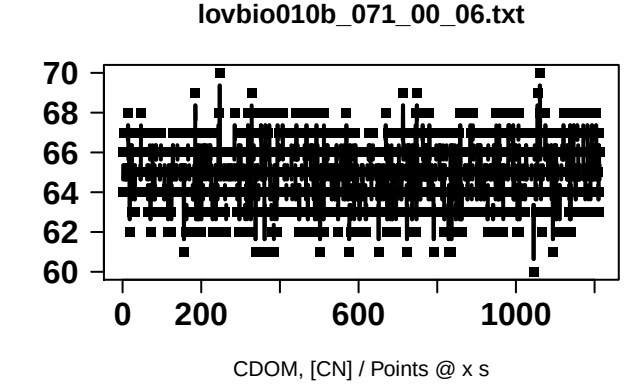

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

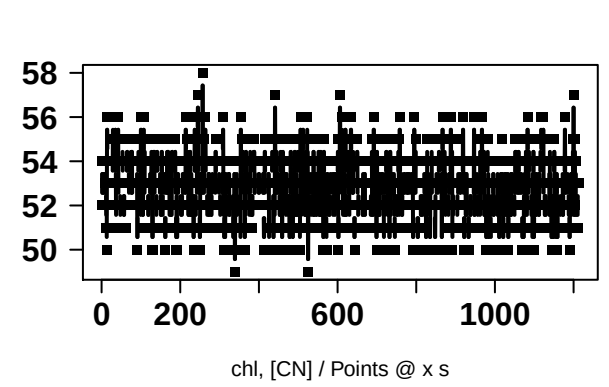

nb days: 0.2 freq: 7.6 min
200
180
160
140
120
100
0
10
20
30
40
beta, [CN] / Points @ x s

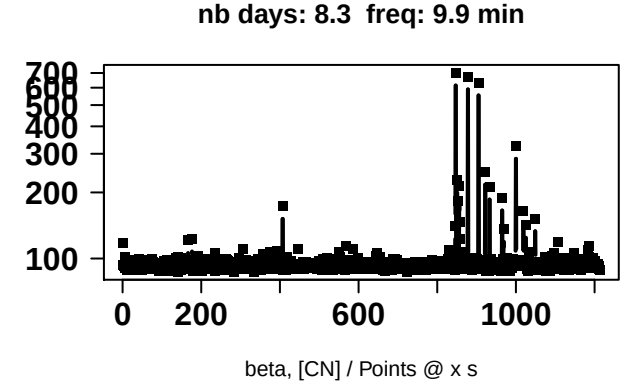

nb days: 0.2 freq: 45.7 min
0.665
0.664
0.663
0.662
0.661
0.660
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

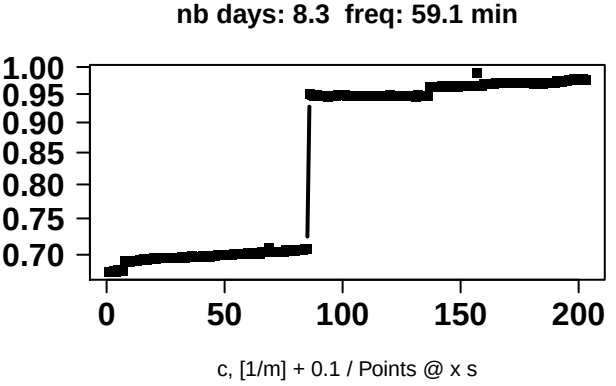

2014−08−25 20:49:20 2014−09−03 04:49:22
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

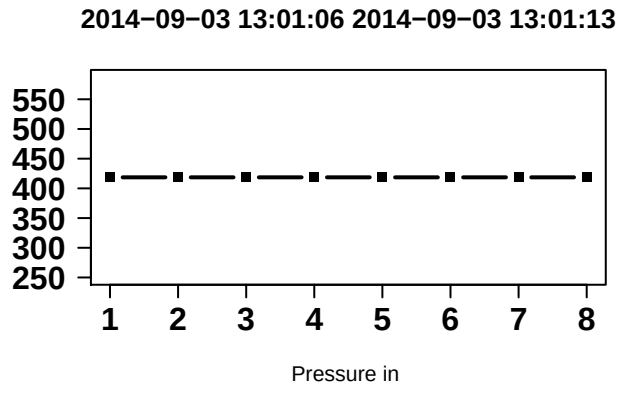

black 0.057 red 0.19
Seawater potential density anomaly
Seawater density − 1000
27.51
27.50
27.49
27.48
27.47
27.46
27.45
32.10
32.00
0
50
100
150
200

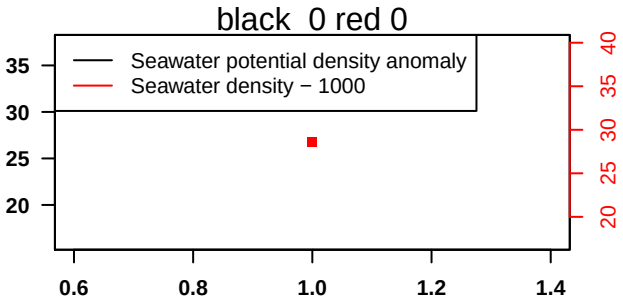

lovbio010b_071_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

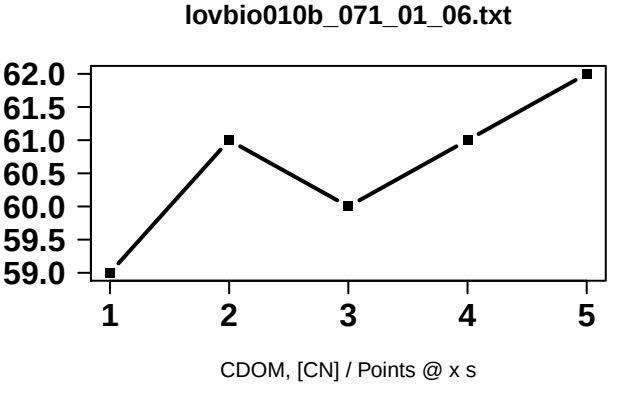

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

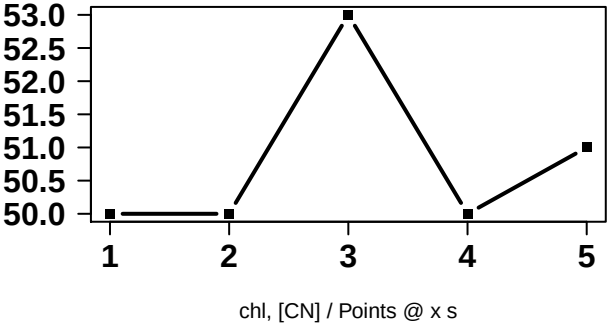

nb days: 8.3 freq: 9.9 min
700
600
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

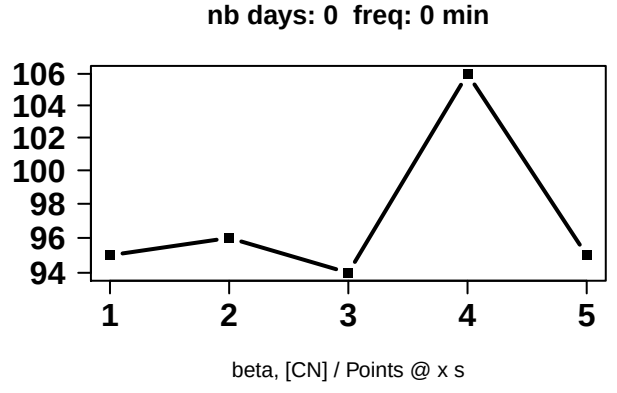

nb days: 8.3 freq: 59.1 min
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

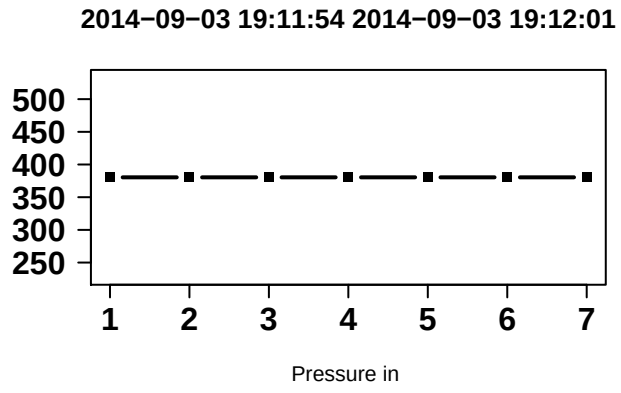

2014−09−03 13:01:06 2014−09−03 13:01:13
550
500
450
400
350
300
250
1
2
3
4
5
6
7
8
Pressure in

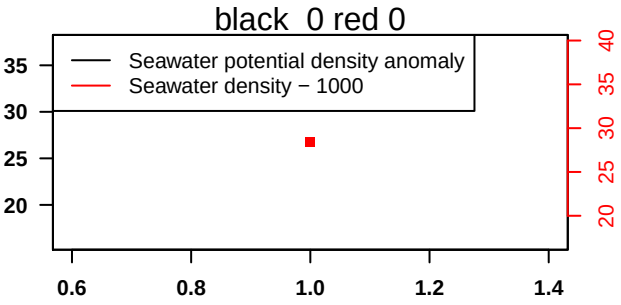

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

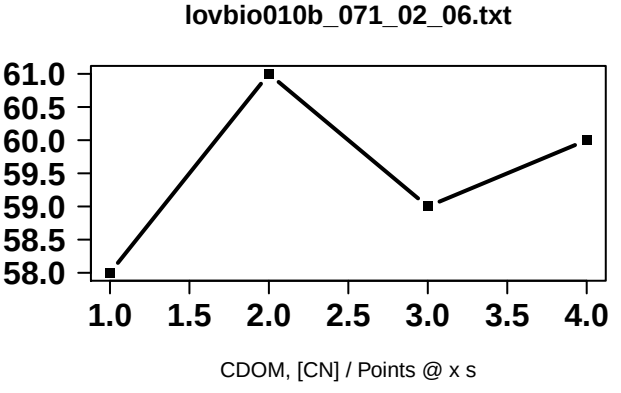

lovbio010b_071_01_06.txt
62.0
61.5
61.0
60.5
60.0
59.5
59.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

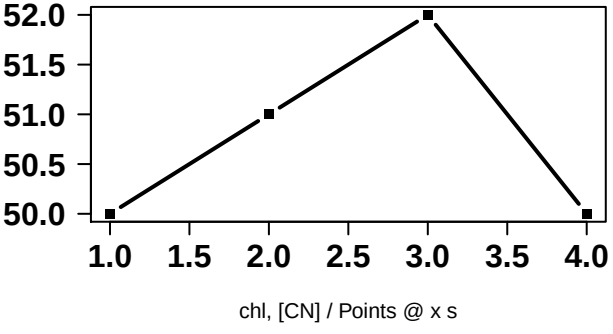

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
chl, [CN] / Points @ x s

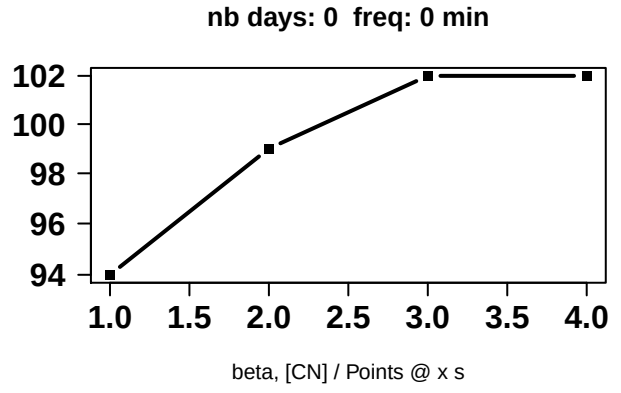

nb days: 0 freq: 0 min
106
104
102
100
98
96
94
1
2
3
4
5
beta, [CN] / Points @ x s

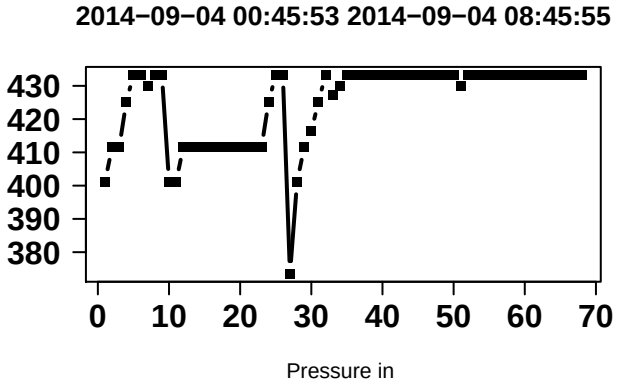

2014−09−03 19:11:54 2014−09−03 19:12:01
500
450
400
350
300
250
1
2
3
4
5
6
7
Pressure in

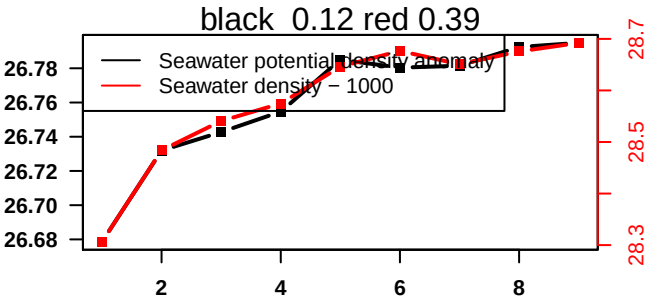

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

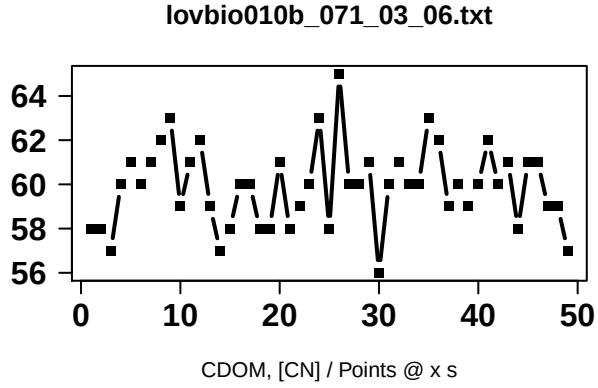

lovbio010b_071_02_06.txt
61.0
60.5
60.0
59.5
59.0
58.5
58.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

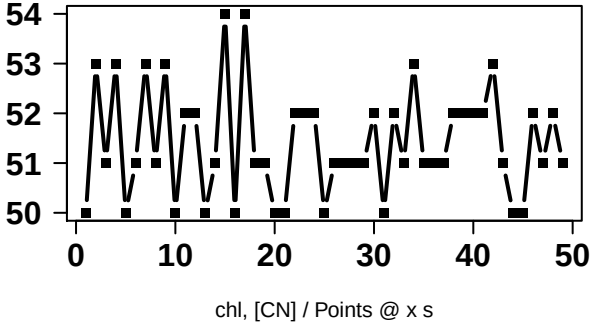

52.0
51.5
51.0
50.5
50.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

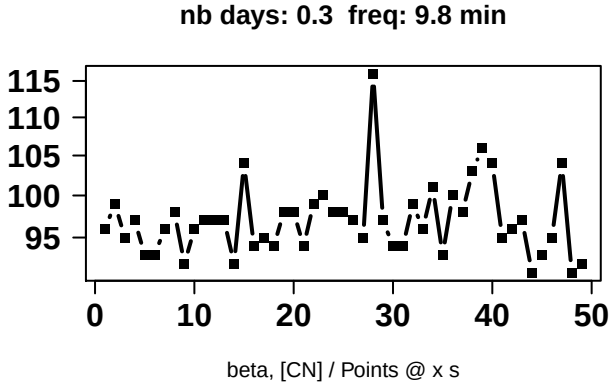

nb days: 0 freq: 0 min
102
100
98
96
94
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

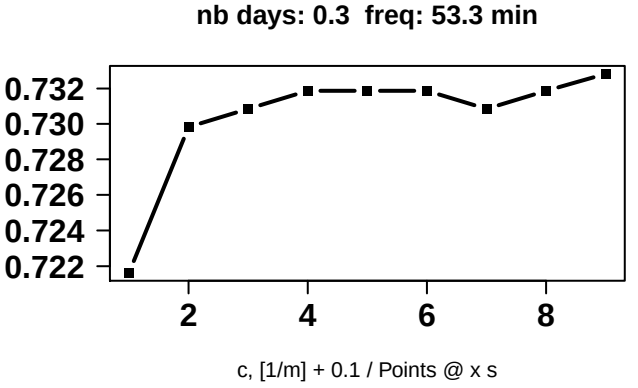

2014−09−04 00:45:53 2014−09−04 08:45:55
430
420
410
400
390
380
0
10
20
30
40
50
60
70
Pressure in

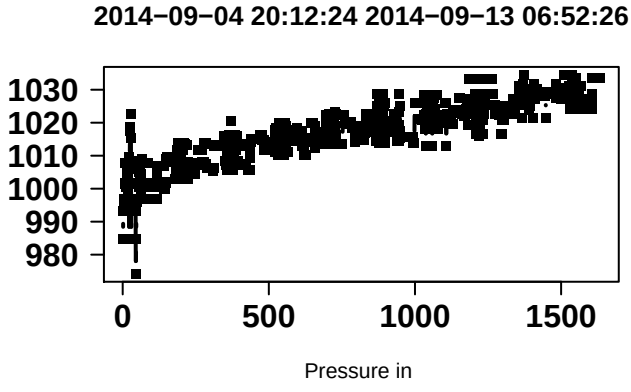

black 0.12 red 0.39
Seawater potential density anomaly
Seawater density − 1000
26.78
26.76
26.74
26.72
26.70
26.68
28.7
28.5
28.3
2
4
6
8

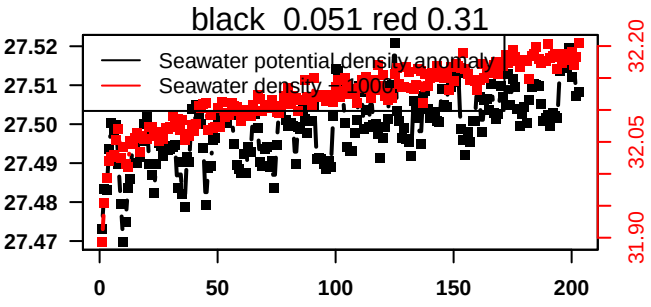

lovbio010b_071_03_06.txt
64
62
60
58
56
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

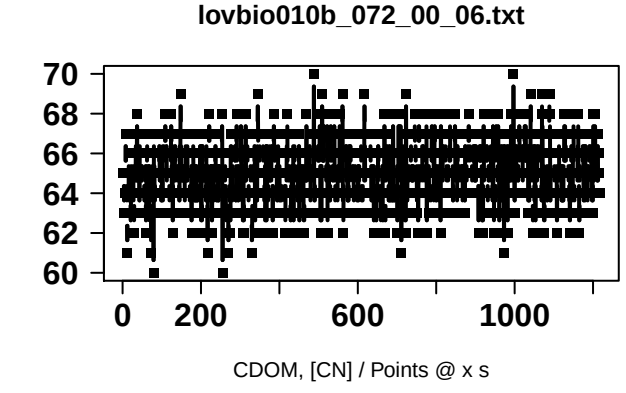

54
53
52
51
50
0
10
20
30
40
50
chl, [CN] / Points @ x s

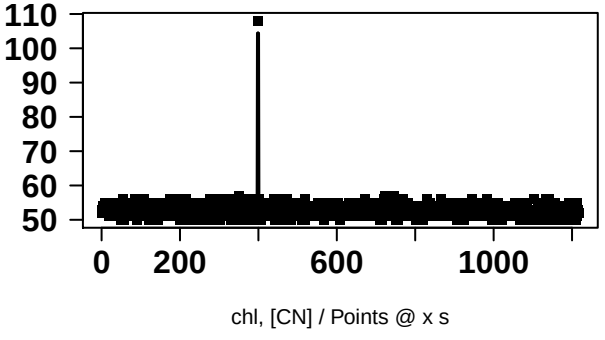

nb days: 0.3 freq: 9.8 min
115
110
105
100
95
0
10
20
30
40
50
beta, [CN] / Points @ x s

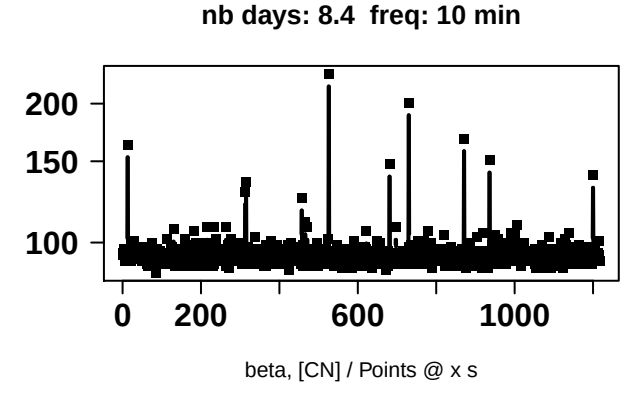

nb days: 0.3 freq: 53.3 min
0.732
0.730
0.728
0.726
0.724
0.722
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

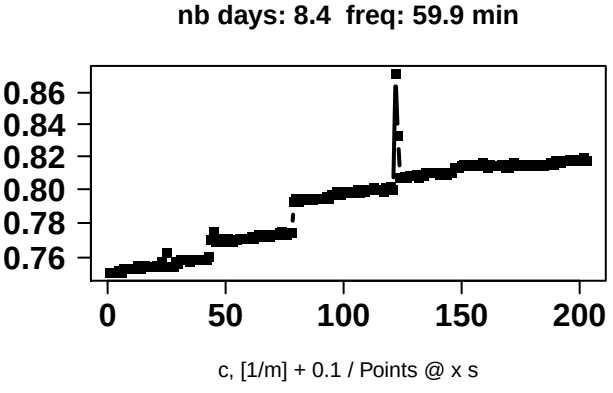

2014−09−04 20:12:24 2014−09−13 06:52:26
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

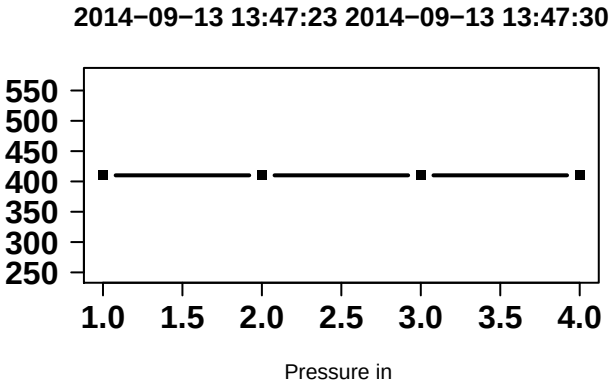

black 0.051 red 0.31
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
27.47
32.20
32.05
31.90
0
50
100
150
200

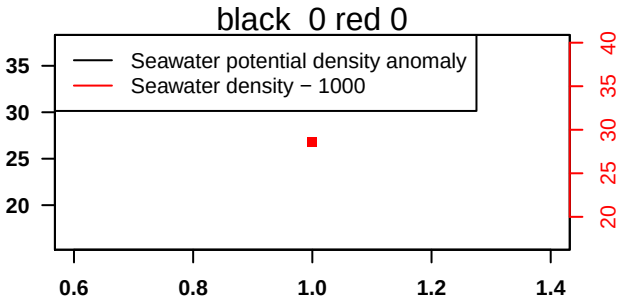

lovbio010b_072_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

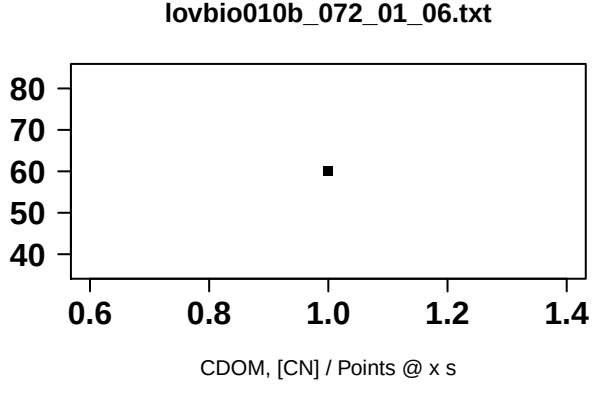

110
100
90
80
70
60
50
0
200
600
1000
chl, [CN] / Points @ x s

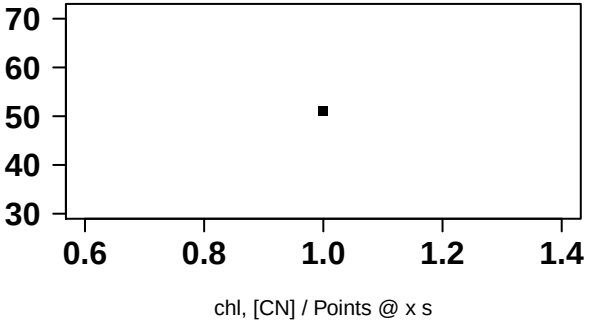

nb days: 8.4 freq: 10 min
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

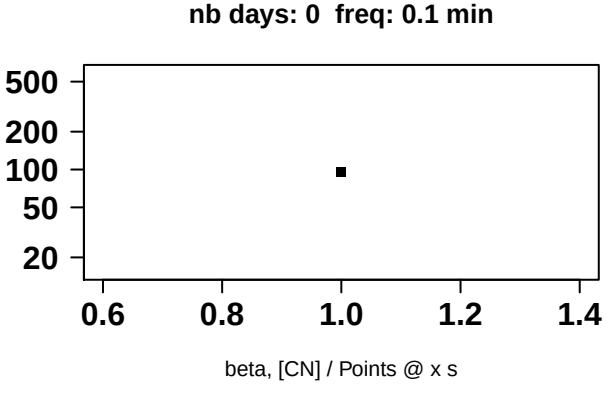

nb days: 8.4 freq: 59.9 min
0.86
0.84
0.82
0.80
0.78
0.76
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

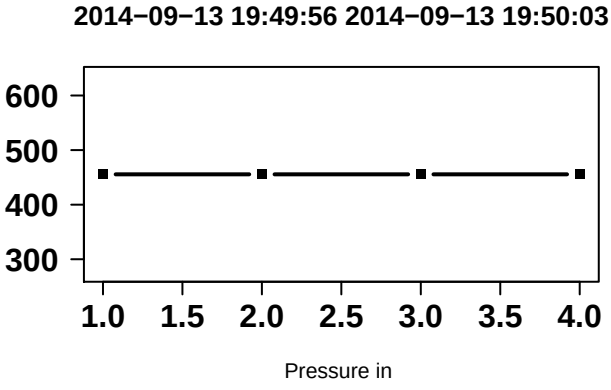

2014−09−13 13:47:23 2014−09−13 13:47:30
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

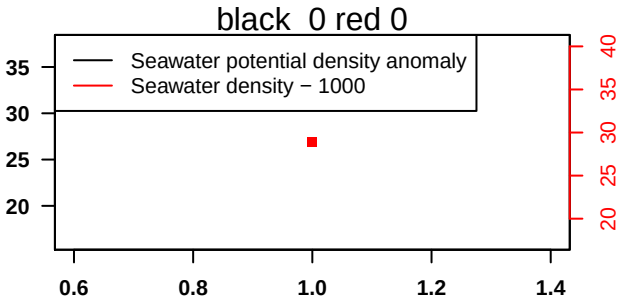

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

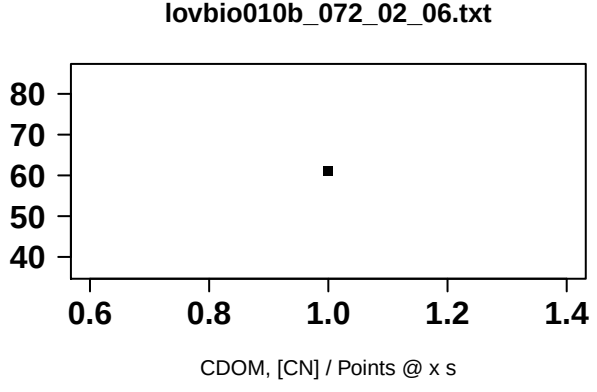

lovbio010b_072_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

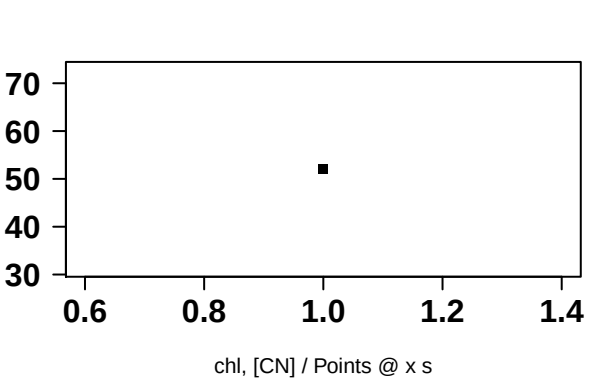

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

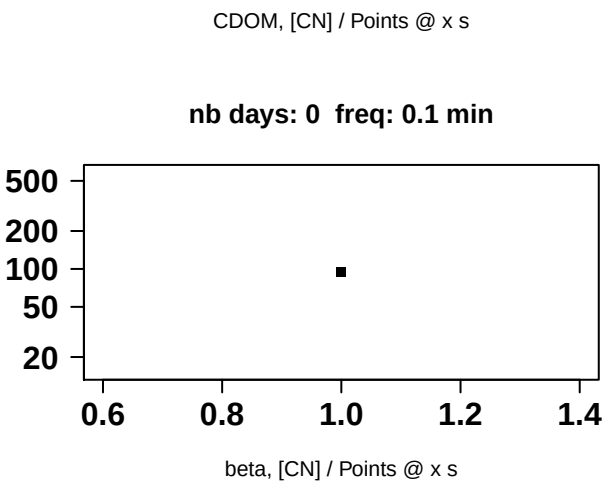

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

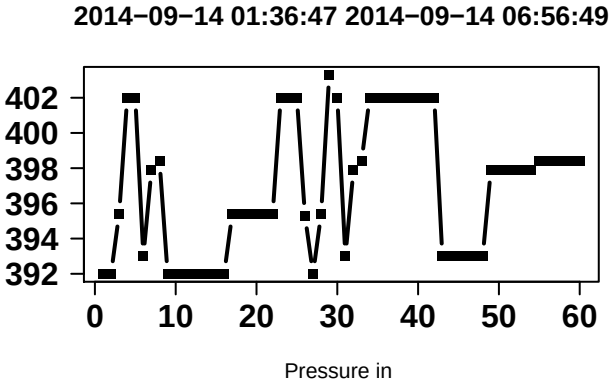

2014−09−13 19:49:56 2014−09−13 19:50:03
600
500
400
300
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

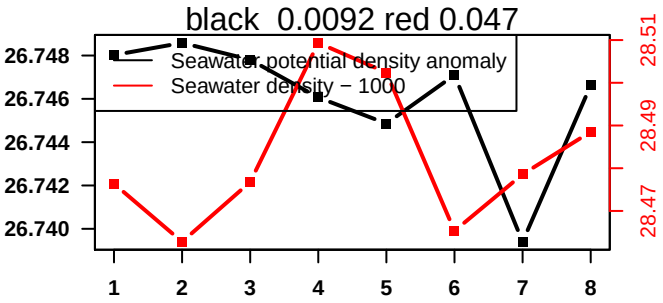

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

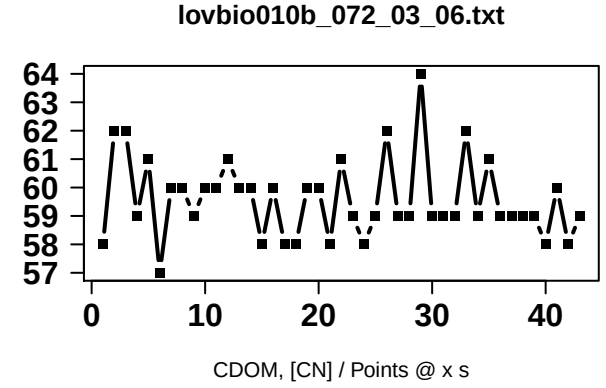

lovbio010b_072_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

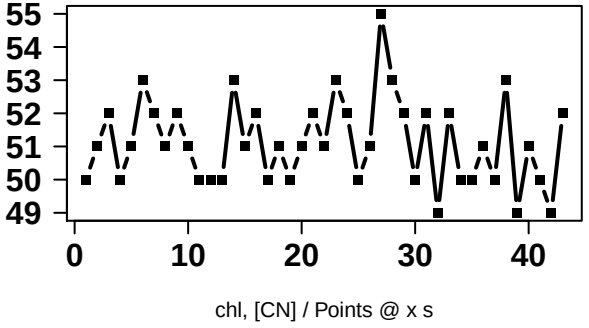

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

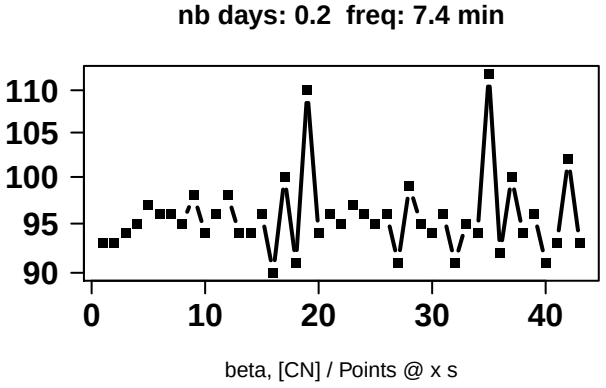

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

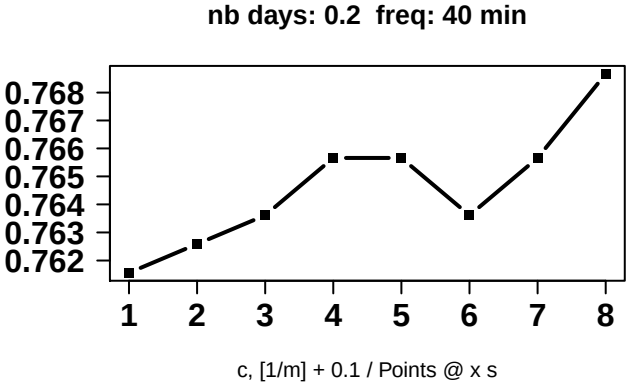

2014−09−14 01:36:47 2014−09−14 06:56:49
402
400
398
396
394
392
0
10
20
30
40
50
60
Pressure in

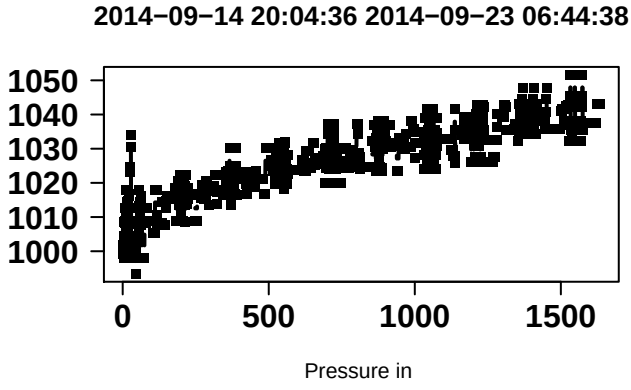

black 0.0092 red 0.047
Seawater potential density anomaly
Seawater density − 1000
26.748
26.746
26.744
26.742
26.740
28.51
28.49
28.47
1
2
3
4
5
6
7
8

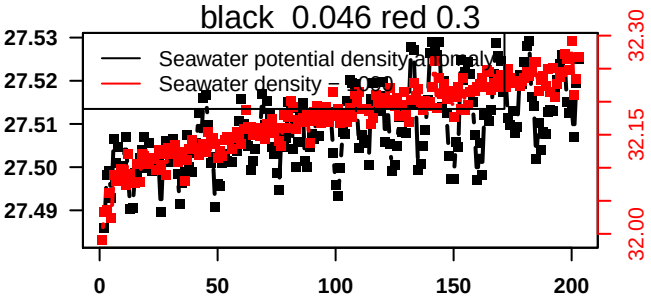

lovbio010b_072_03_06.txt
64
63
62
61
60
59
58
57
0
10
20
30
40
CDOM, [CN] / Points @ x s

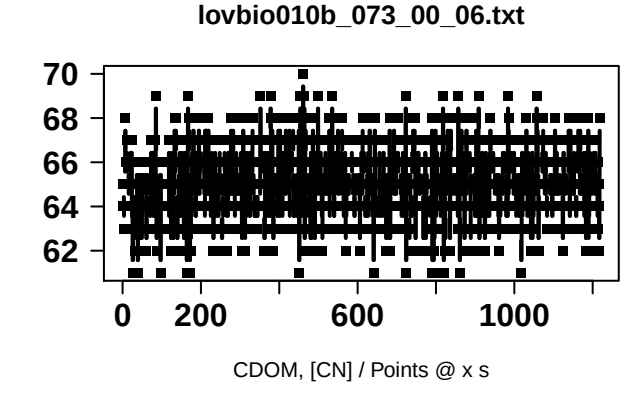

55
54
53
52
51
50
49
0
10
20
30
40
chl, [CN] / Points @ x s

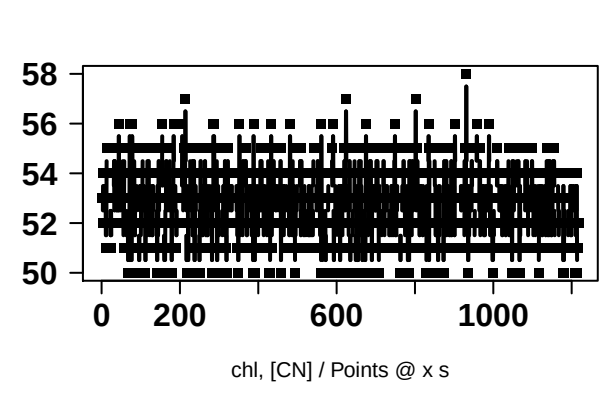

nb days: 0.2 freq: 7.4 min
110
105
100
95
90
0
10
20
30
40
beta, [CN] / Points @ x s

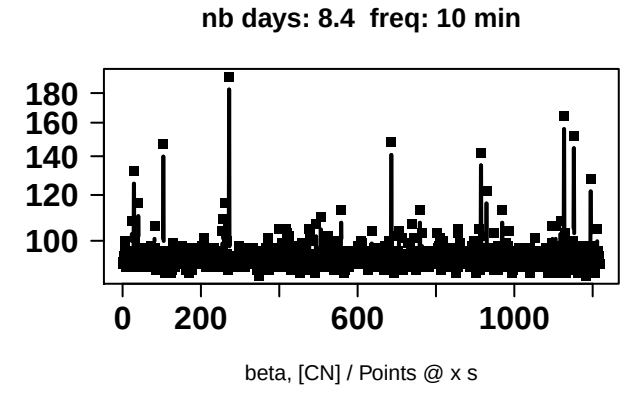

nb days: 0.2 freq: 40 min
0.768
0.767
0.766
0.765
0.764
0.763
0.762
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

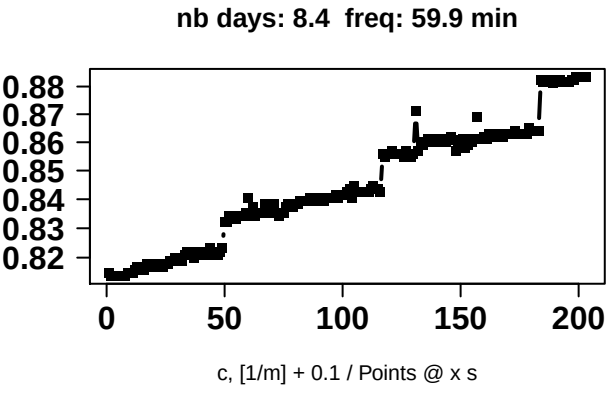

2014−09−14 20:04:36 2014−09−23 06:44:38
1050
1040
1030
1020
1010
1000
0
500
1000
1500
Pressure in

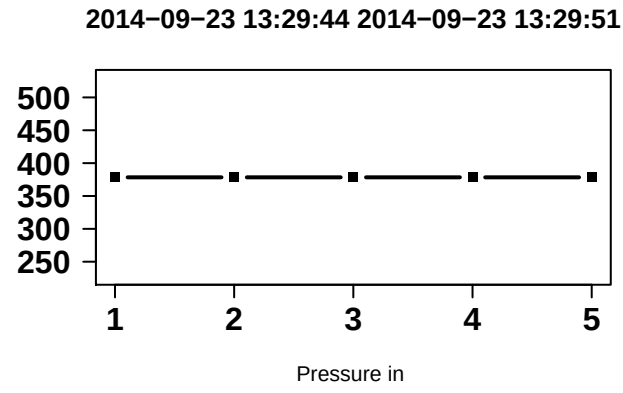

black 0.046 red 0.3
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
32.30
32.15
32.00
0
50
100
150
200

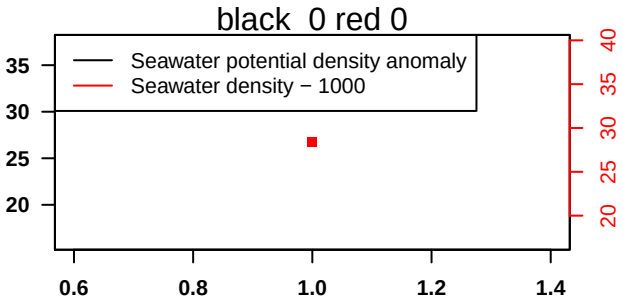

lovbio010b_073_00_06.txt
70
68
66
64
62
0
200
600
1000
CDOM, [CN] / Points @ x s

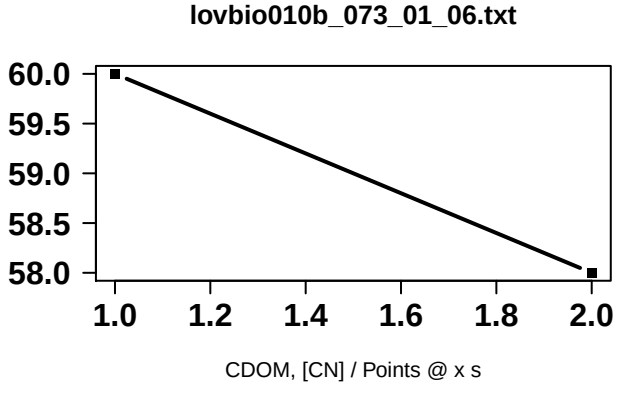

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

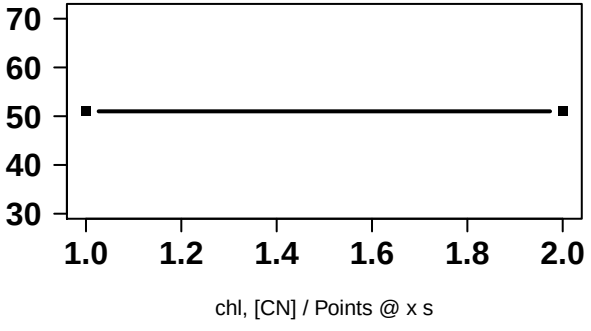

nb days: 8.4 freq: 10 min
180
160
140
120
100
0
200
600
1000
beta, [CN] / Points @ x s

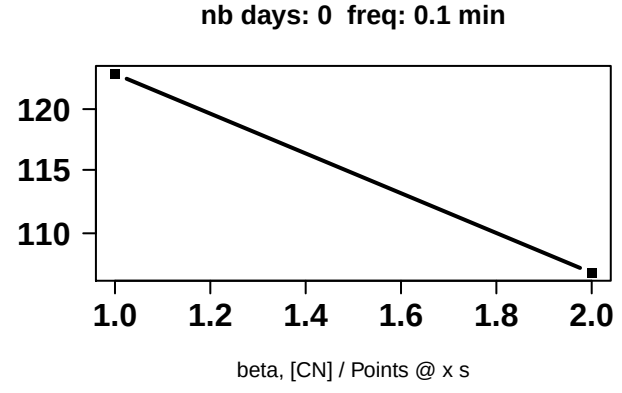

nb days: 8.4 freq: 59.9 min
0.88
0.87
0.86
0.85
0.84
0.83
0.82
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

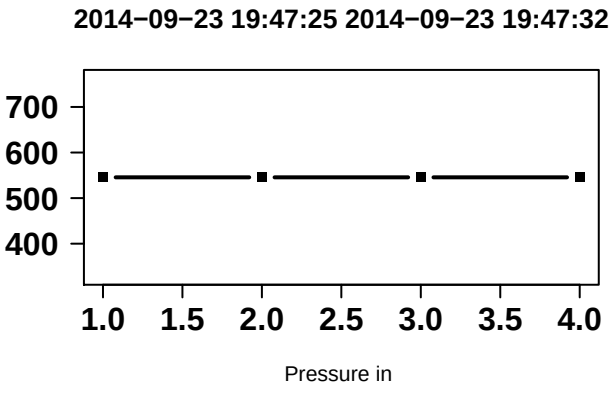

2014−09−23 13:29:44 2014−09−23 13:29:51
500
450
400
350
300
250
1
2
3
4
5
Pressure in

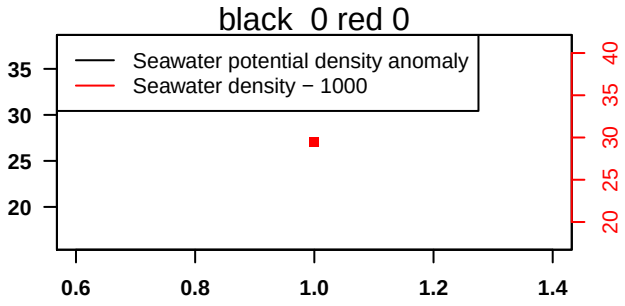

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

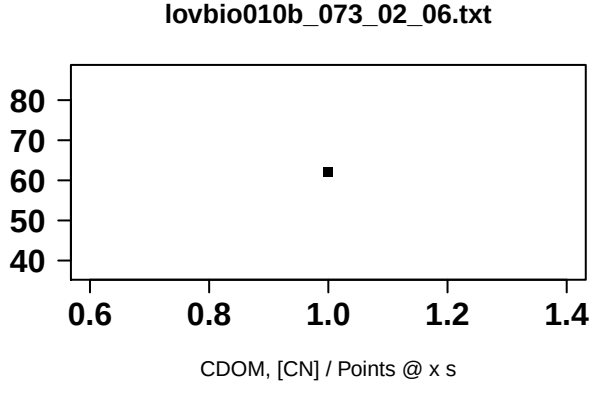

lovbio010b_073_01_06.txt
60.0
59.5
59.0
58.5
58.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

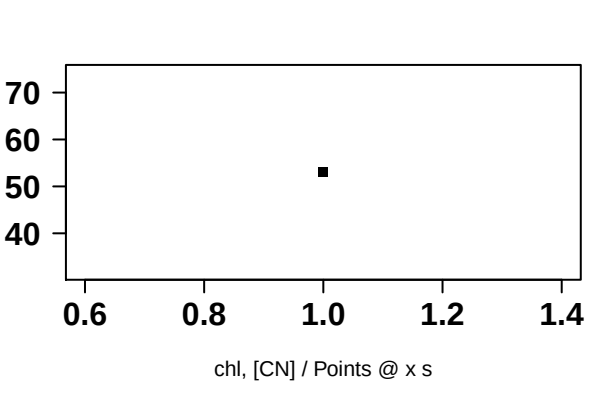

70
60
50
40
30
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

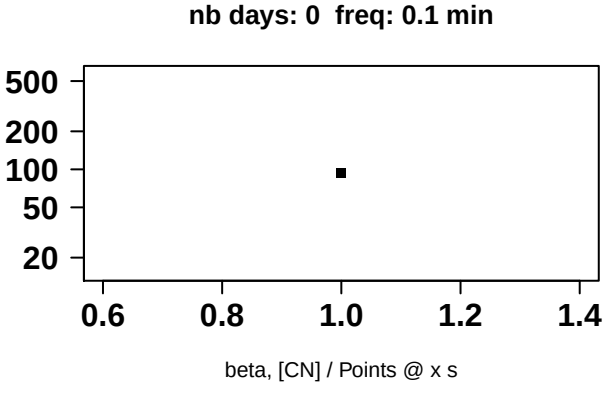

nb days: 0 freq: 0.1 min
120
115
110
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

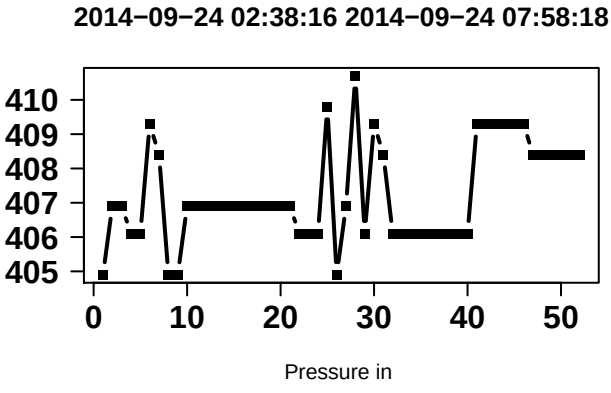

2014−09−23 19:47:25 2014−09−23 19:47:32
700
600
500
400
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

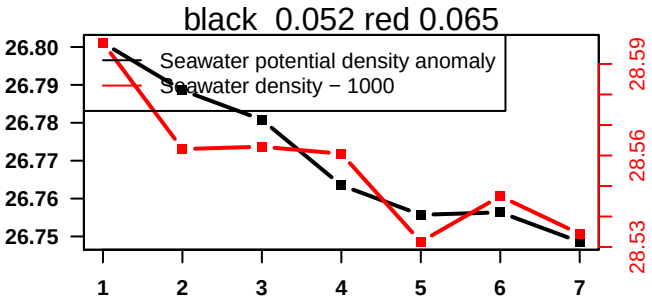

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

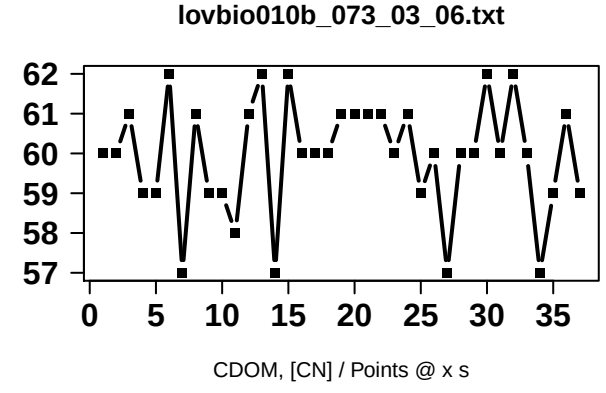

lovbio010b_073_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

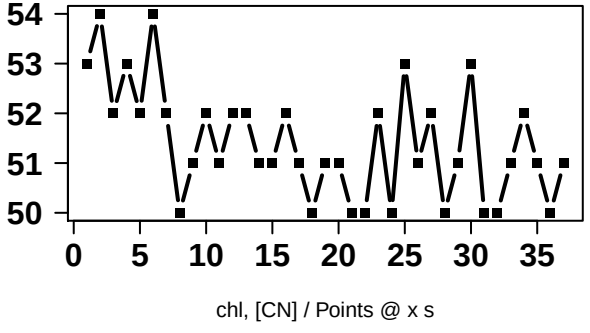

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

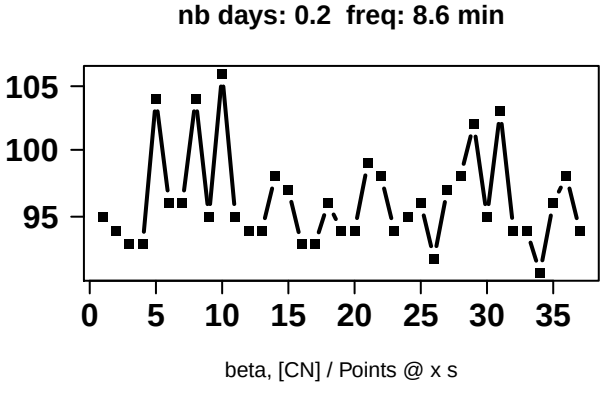

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

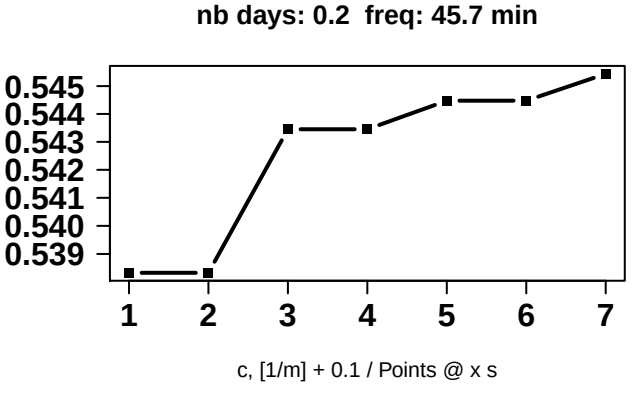

2014−09−24 02:38:16 2014−09−24 07:58:18
410
409
408
407
406
405
0
10
20
30
40
50
Pressure in

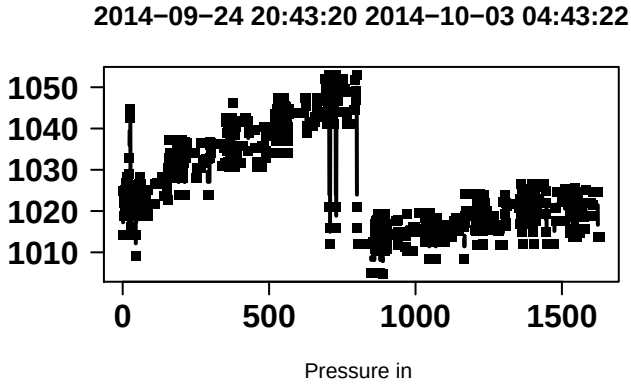

black 0.052 red 0.065
Seawater potential density anomaly
Seawater density − 1000
26.80
26.79
26.78
26.77
26.76
26.75
28.59
28.56
28.53
1
2
3
4
5
6
7

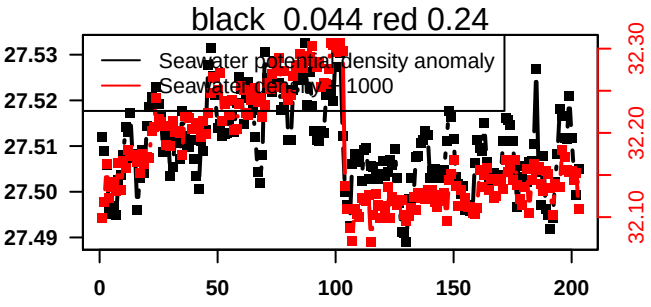

lovbio010b_073_03_06.txt
62
61
60
59
58
57
0
5
10
15
20
25
30
35
CDOM, [CN] / Points @ x s

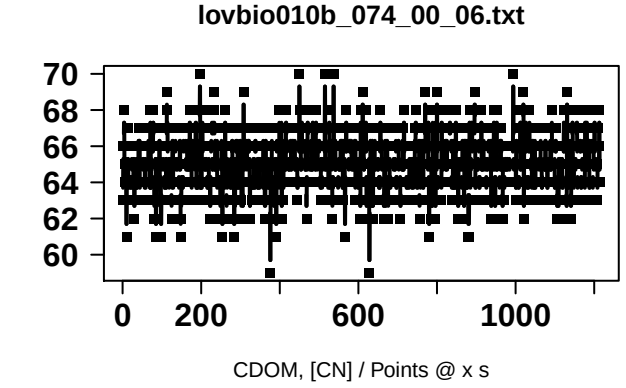

54
53
52
51
50
0
5
10
15
20
25
30
35
chl, [CN] / Points @ x s

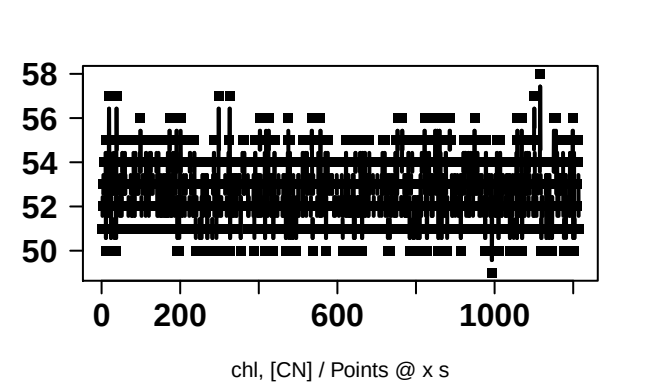

nb days: 0.2 freq: 8.6 min
105
100
95
0
5
10
15
20
25
30
35
beta, [CN] / Points @ x s

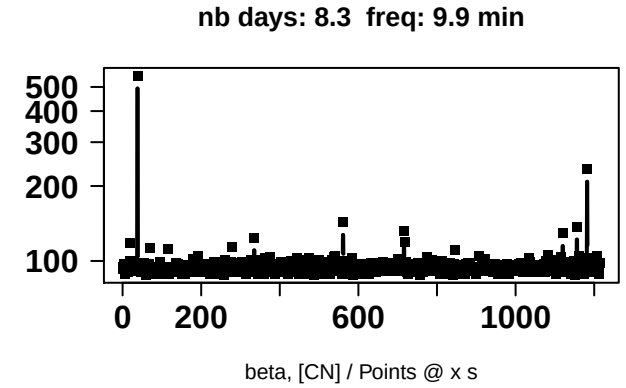

nb days: 0.2 freq: 45.7 min
0.545
0.544
0.543
0.542
0.541
0.540
0.539
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

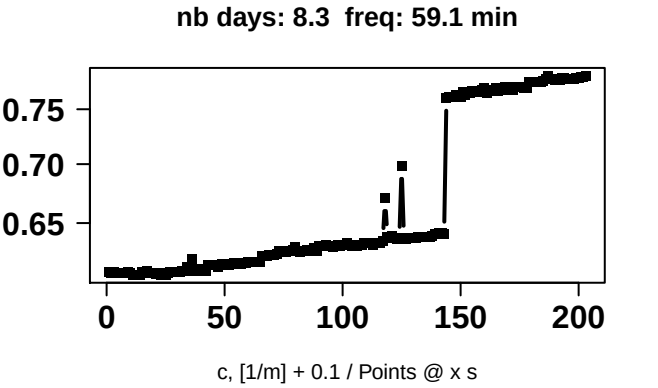

2014−09−24 20:43:20 2014−10−03 04:43:22
1050
1040
1030
1020
1010
0
500
1000
1500
Pressure in

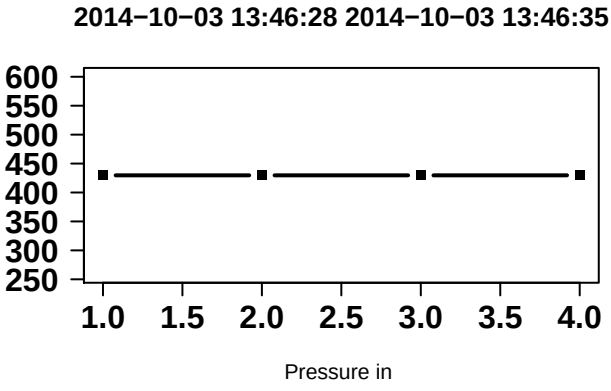

black 0.044 red 0.24
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
32.30
32.20
32.10
0
50
100
150
200

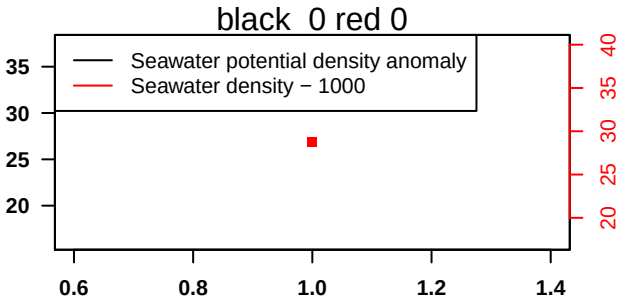

lovbio010b_074_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

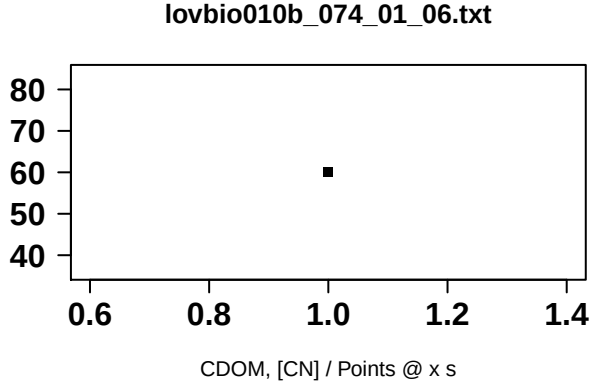

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

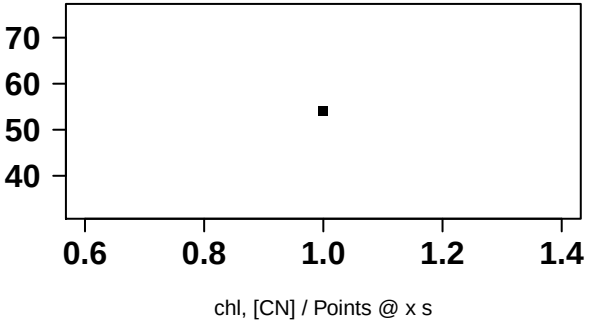

nb days: 8.3 freq: 9.9 min
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

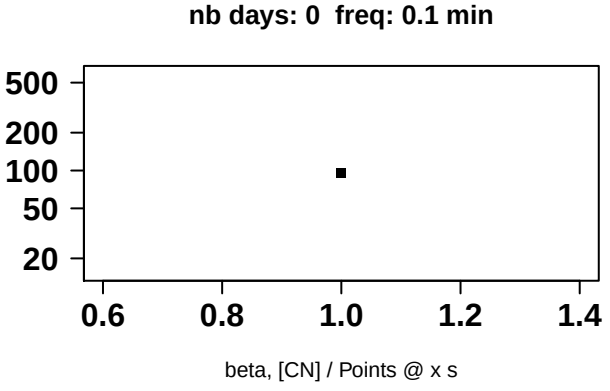

nb days: 8.3 freq: 59.1 min
0.75
0.70
0.65
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

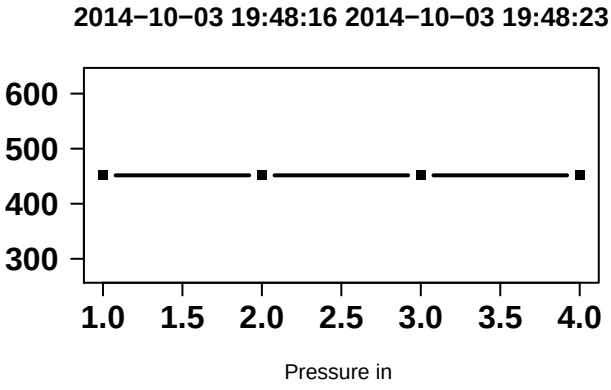

2014−10−03 13:46:28 2014−10−03 13:46:35
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

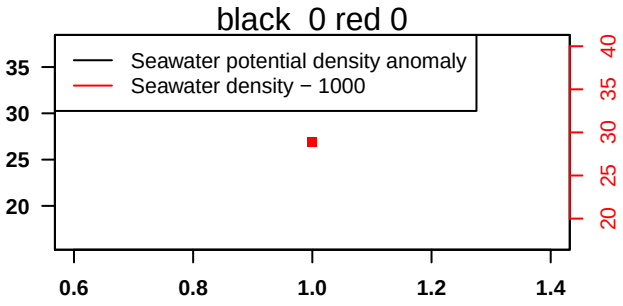

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

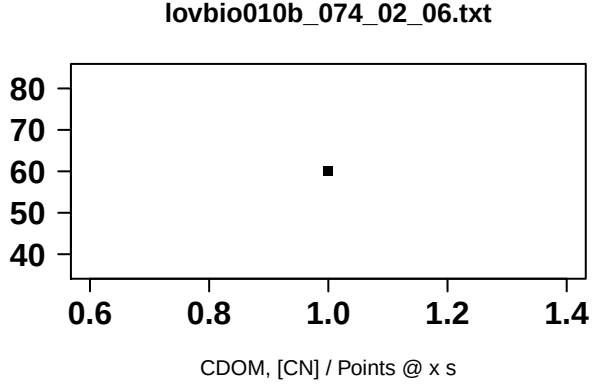

lovbio010b_074_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

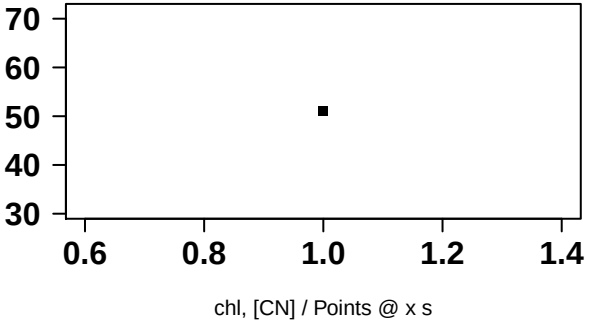

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

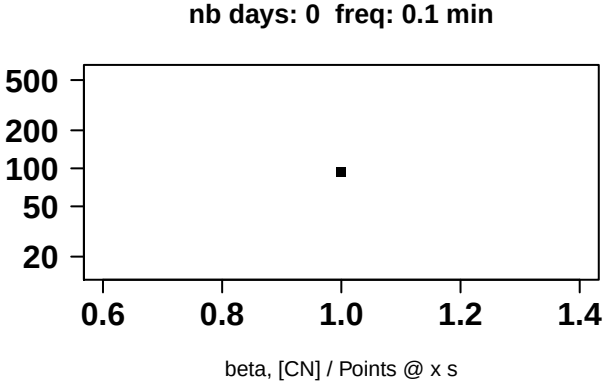

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

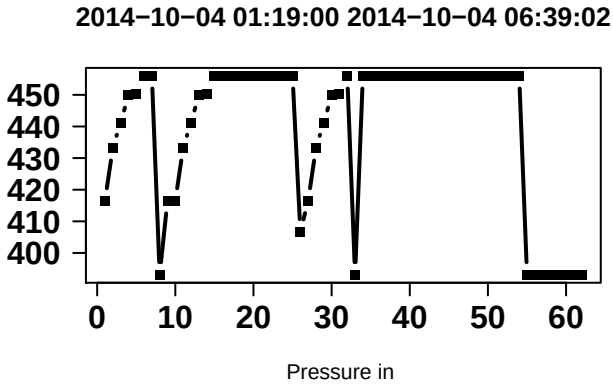

2014−10−03 19:48:16 2014−10−03 19:48:23
600
500
400
300
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

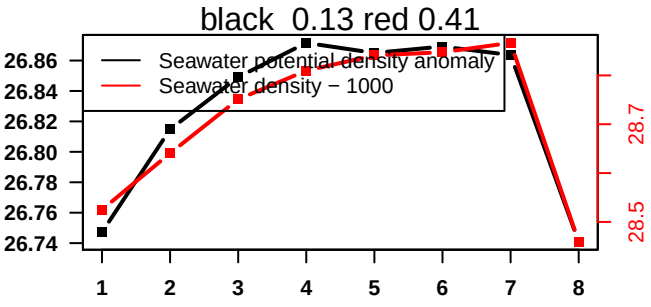

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

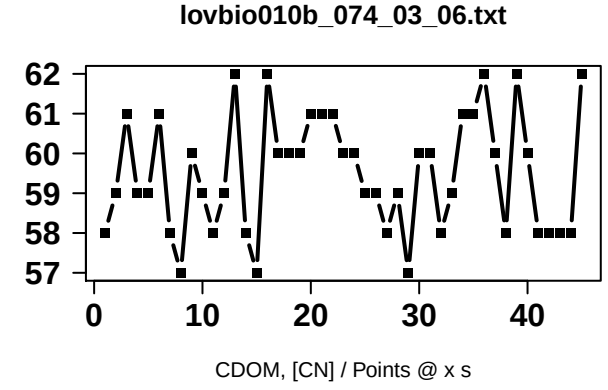

lovbio010b_074_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

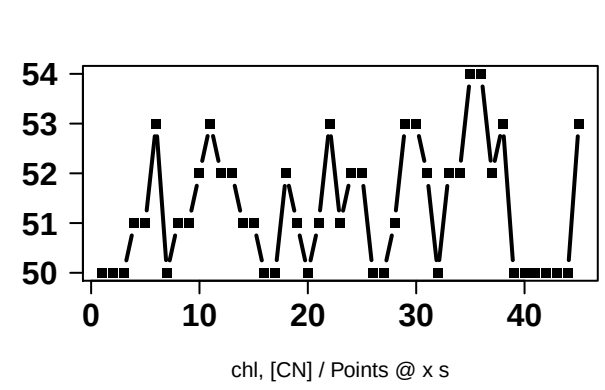

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

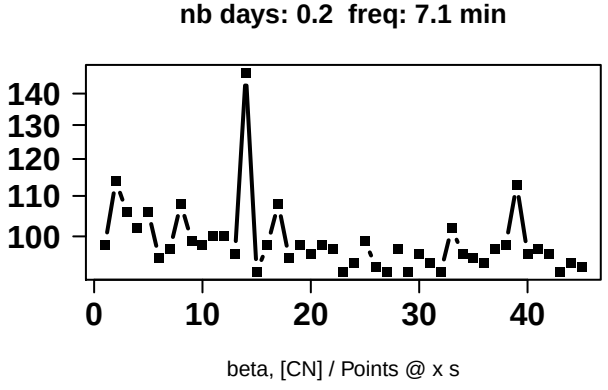

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

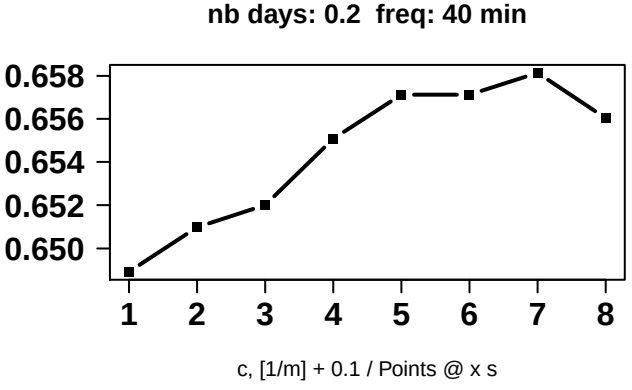

2014−10−04 01:19:00 2014−10−04 06:39:02
450
440
430
420
410
400
0
10
20
30
40
50
60
Pressure in

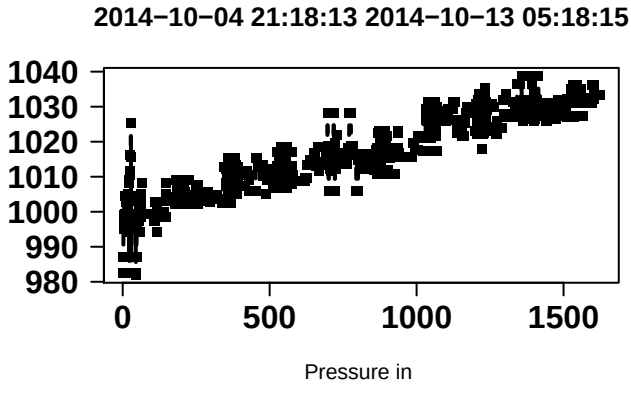

black 0.13 red 0.41
Seawater potential density anomaly
Seawater density − 1000
26.86
26.84
26.82
26.80
26.78
26.76
26.74
28.7
28.5
1
2
3
4
5
6
7
8

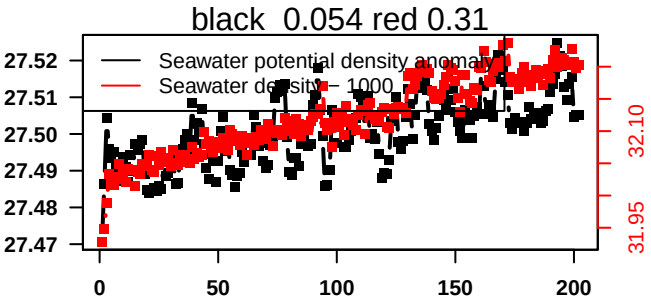

lovbio010b_074_03_06.txt
62
61
60
59
58
57
0
10
20
30
40
CDOM, [CN] / Points @ x s

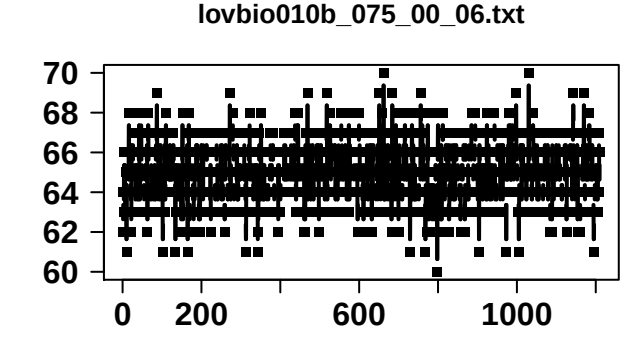

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

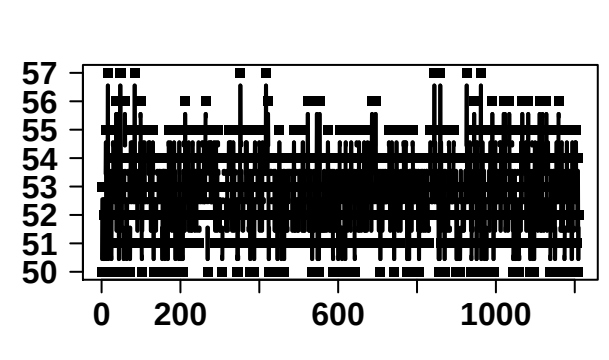

nb days: 0.2 freq: 7.1 min
140
130
120
110
100
0
10
20
30
40
beta, [CN] / Points @ x s

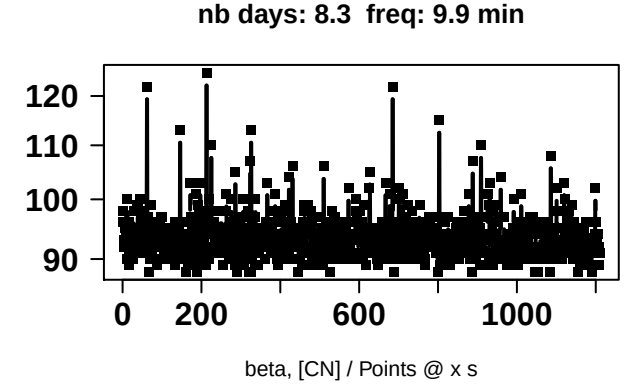

nb days: 0.2 freq: 40 min
0.658
0.656
0.654
0.652
0.650
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

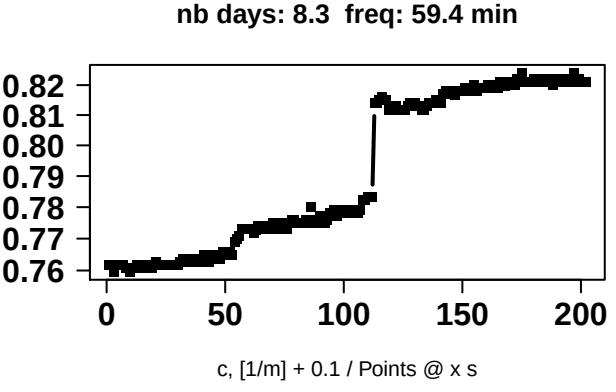

2014−10−04 21:18:13 2014−10−13 05:18:15
1040
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

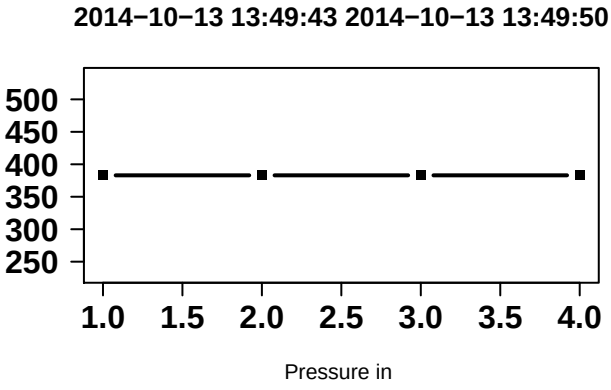

black 0.054 red 0.31
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
27.47
32.10
31.95
0
50
100
150
200

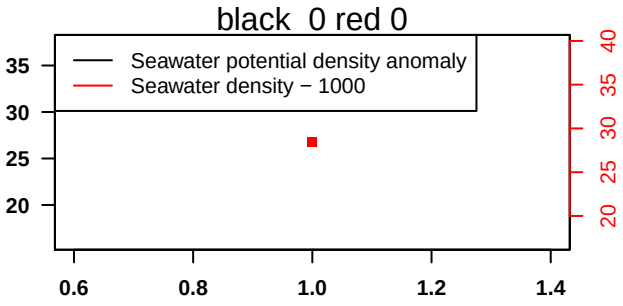

lovbio010b_075_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

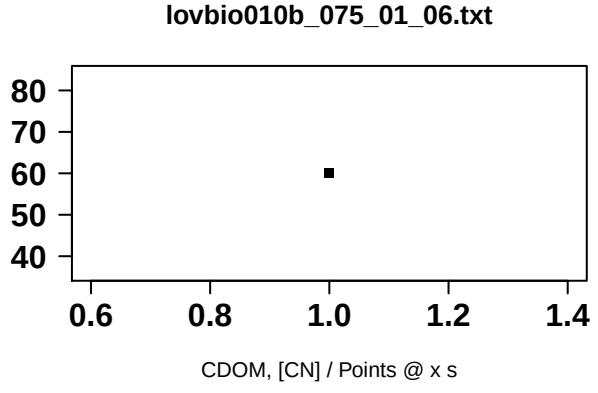

57
56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

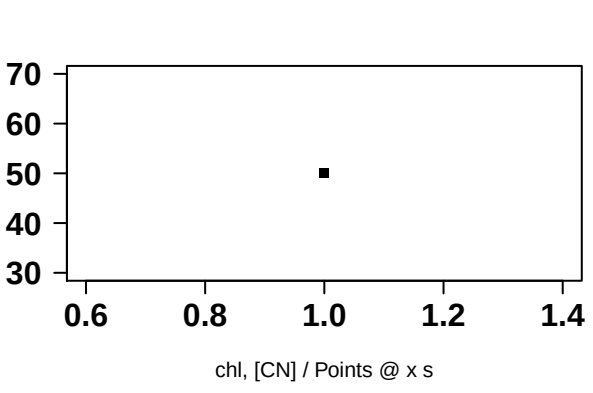

nb days: 8.3 freq: 9.9 min
120
110
100
90
0
200
600
1000
beta, [CN] / Points @ x s

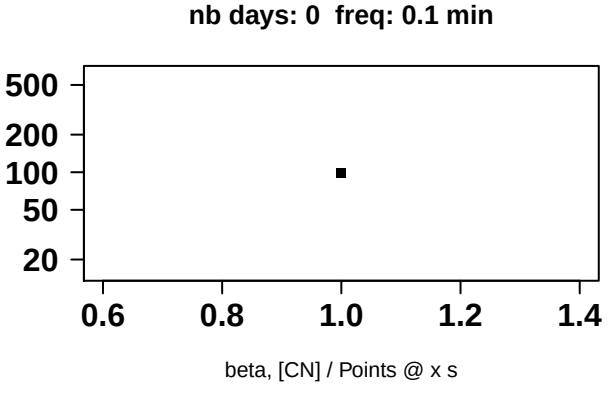

nb days: 8.3 freq: 59.4 min
0.82
0.81
0.80
0.79
0.78
0.77
0.76
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

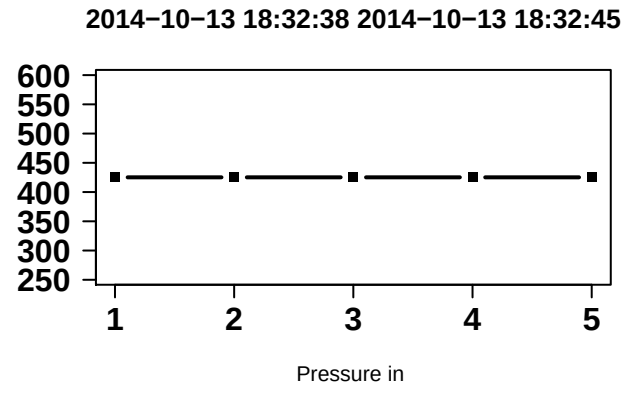

2014−10−13 13:49:43 2014−10−13 13:49:50
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

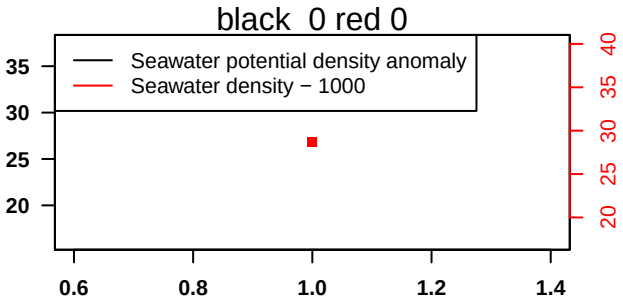

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

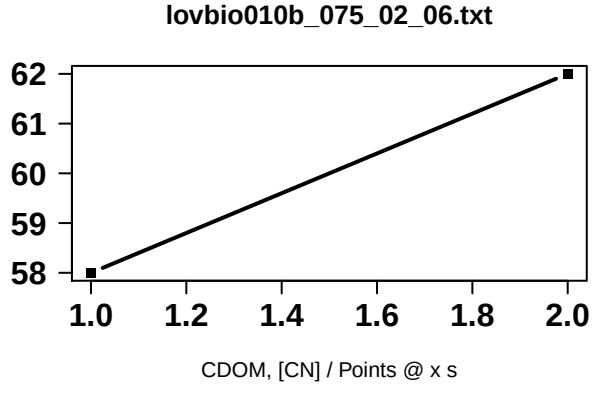

lovbio010b_075_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

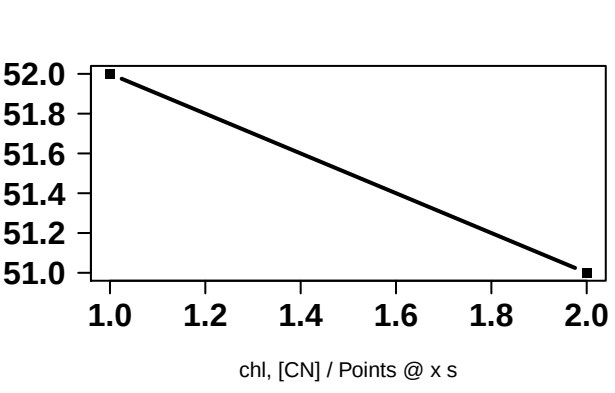

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

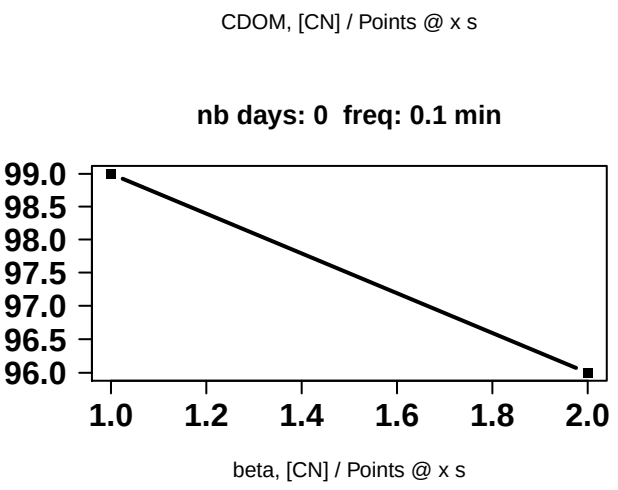

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

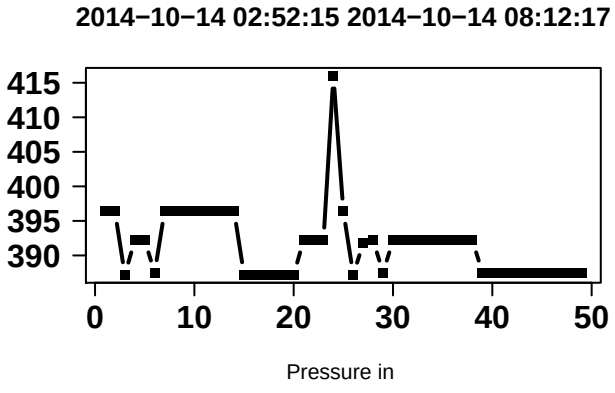

2014−10−13 18:32:38 2014−10−13 18:32:45
600
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

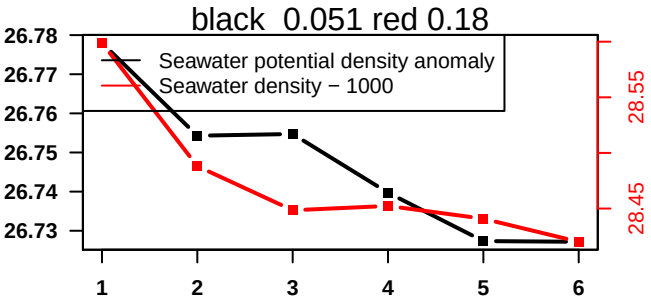

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

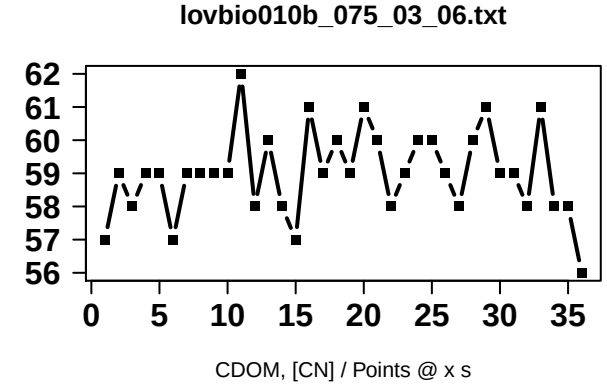

lovbio010b_075_02_06.txt
62
61
60
59
58
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

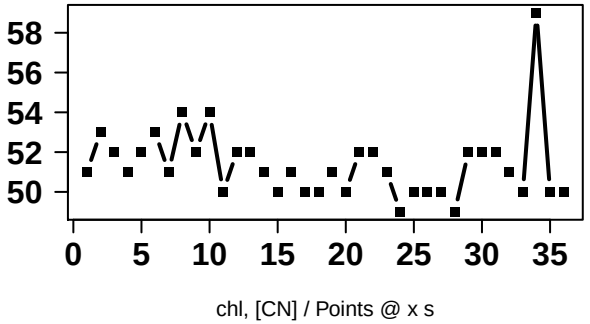

52.0
51.8
51.6
51.4
51.2
51.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

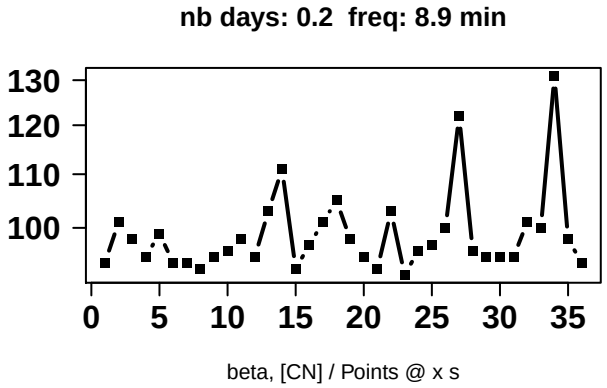

nb days: 0 freq: 0.1 min
99.0
98.5
98.0
97.5
97.0
96.5
96.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

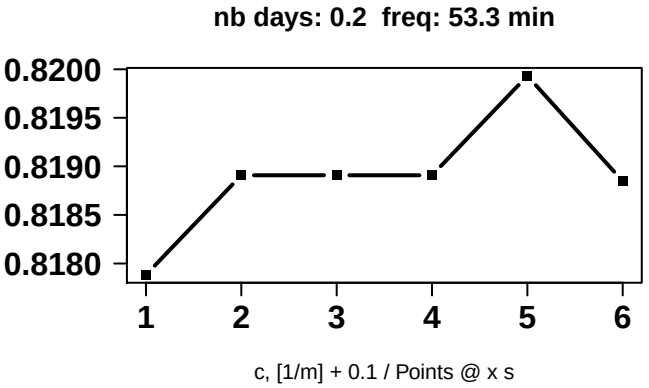

2014−10−14 02:52:15 2014−10−14 08:12:17
415
410
405
400
395
390
0
10
20
30
40
50
Pressure in

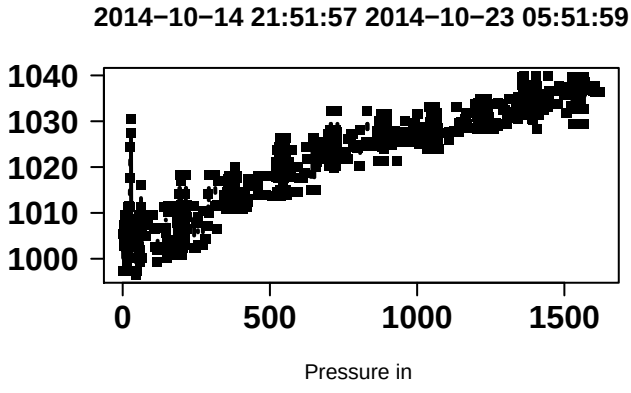

black 0.051 red 0.18
26.78
26.77
26.76
26.75
26.74
26.73
Seawater potential density anomaly
Seawater density − 1000
28.55
28.45
1
2
3
4
5
6

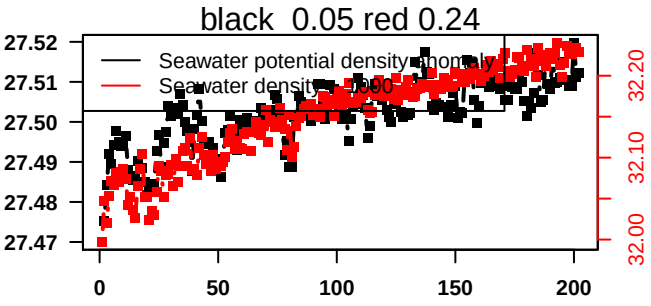

lovbio010b_075_03_06.txt
62
61
60
59
58
57
56
0
5
10
15
20
25
30
35
CDOM, [CN] / Points @ x s

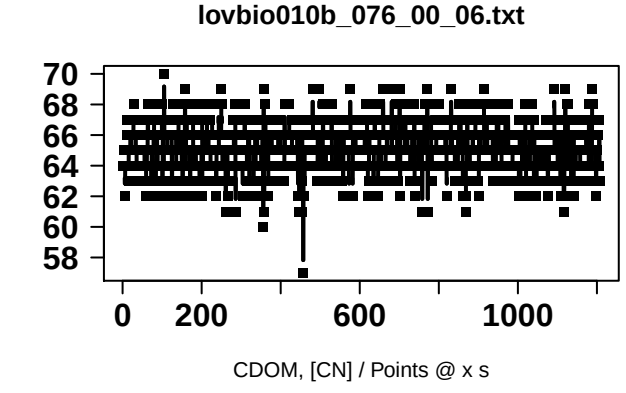

58
56
54
52
50
0
5
10
15
20
25
30
35
chl, [CN] / Points @ x s

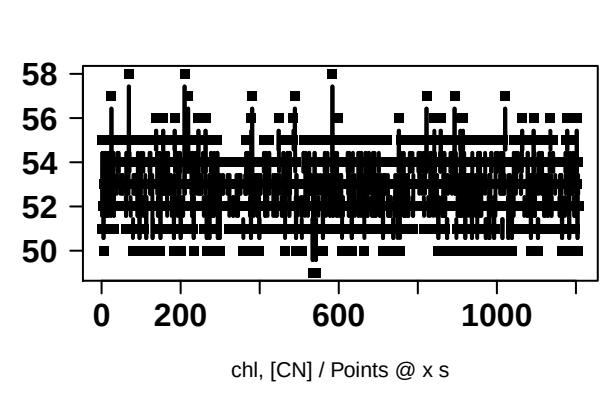

nb days: 0.2 freq: 8.9 min
130
120
110
100
0
5
10
15
20
25
30
35
beta, [CN] / Points @ x s

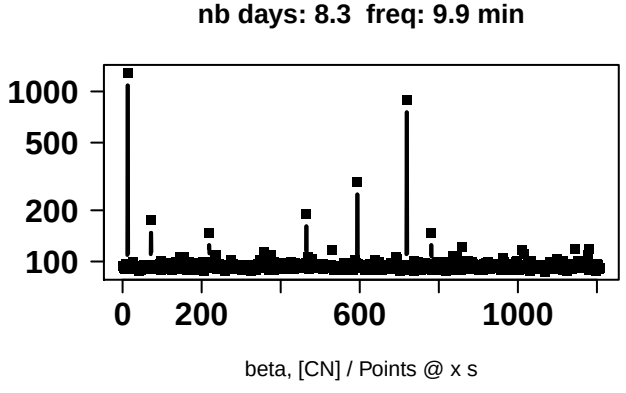

nb days: 0.2 freq: 53.3 min
0.8200
0.8195
0.8190
0.8185
0.8180
1
2
3
4
5
6
c, [1/m] + 0.1 / Points @ x s

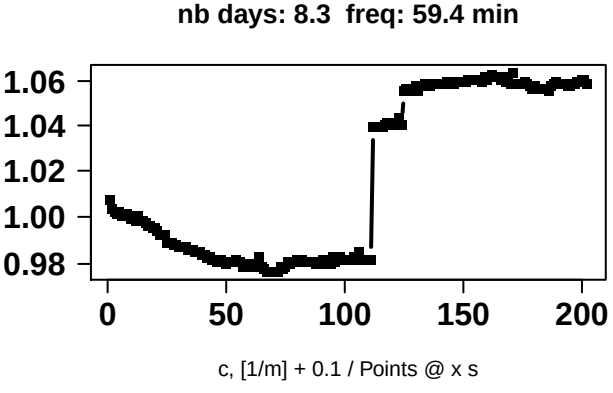

2014−10−14 21:51:57 2014−10−23 05:51:59
1040
1030
1020
1010
1000
0
500
1000
1500
Pressure in

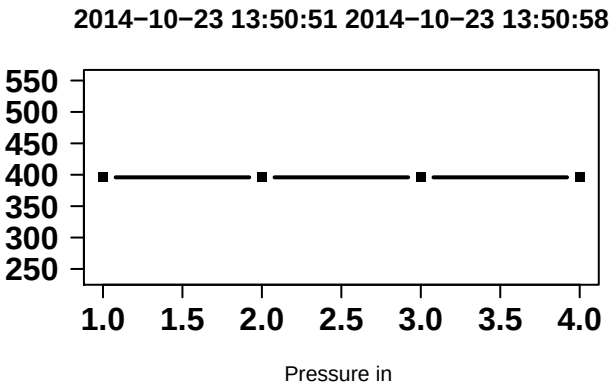

black 0.05 red 0.24
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
27.47
32.20
32.10
32.00
0
50
100
150
200

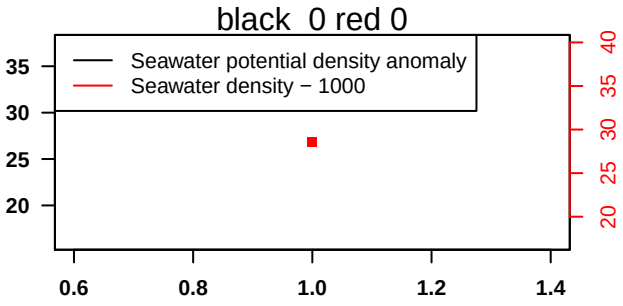

lovbio010b_076_00_06.txt
70
68
66
64
62
60
58
0
200
600
1000
CDOM, [CN] / Points @ x s

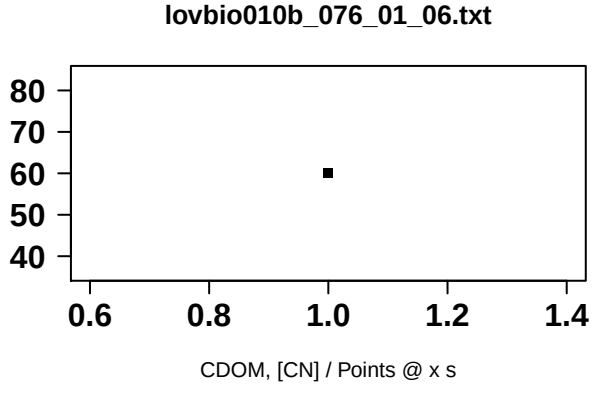

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

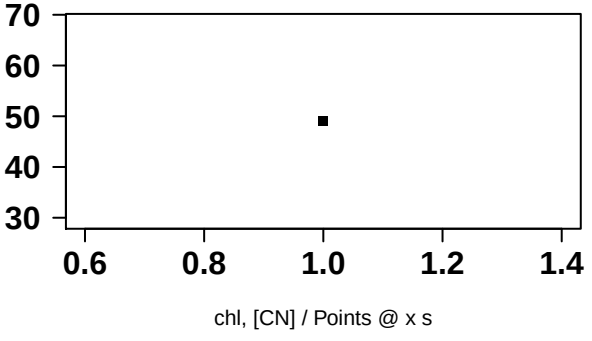

nb days: 8.3 freq: 9.9 min
1000
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

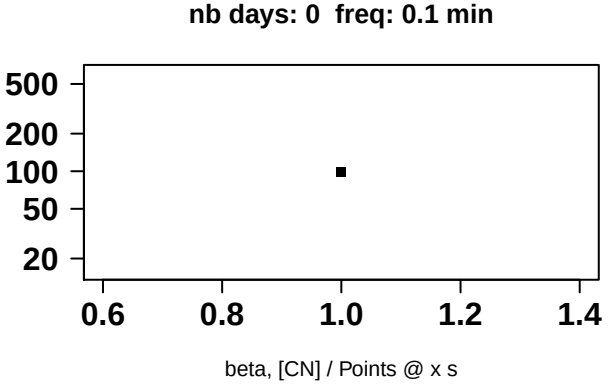

nb days: 8.3 freq: 59.4 min
1.06
1.04
1.02
1.00
0.98
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

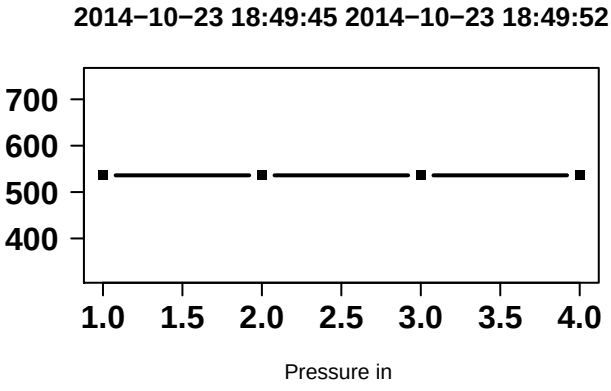

2014−10−23 13:50:51 2014−10−23 13:50:58
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

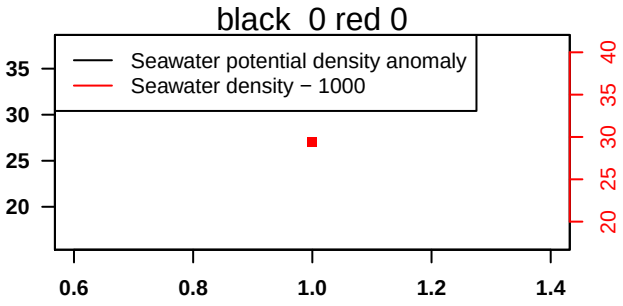

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

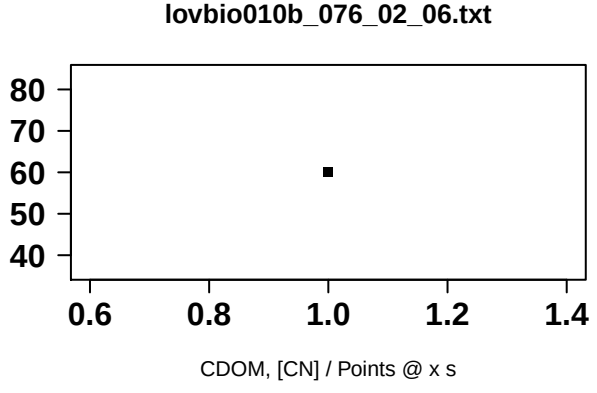

lovbio010b_076_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

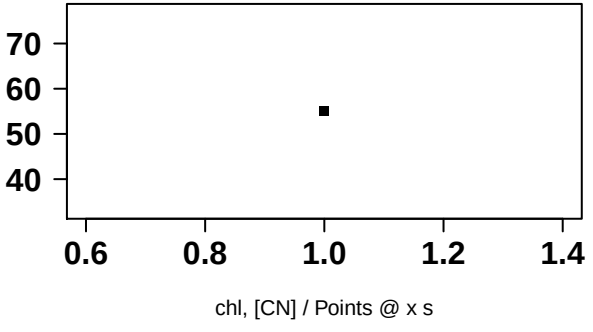

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

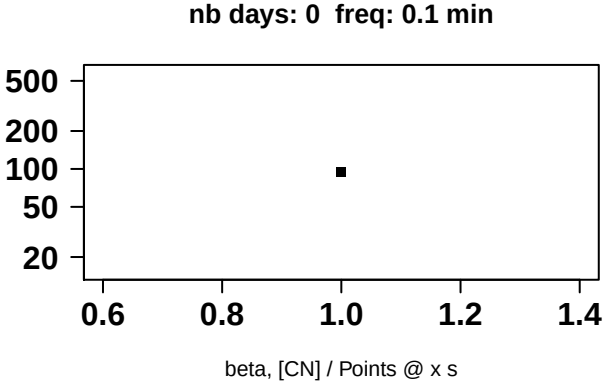

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

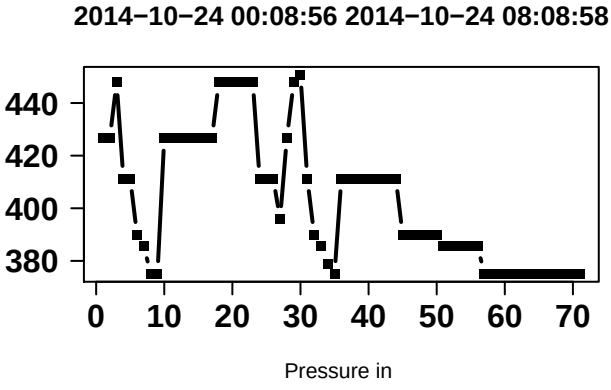

2014−10−23 18:49:45 2014−10−23 18:49:52
700
600
500
400
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

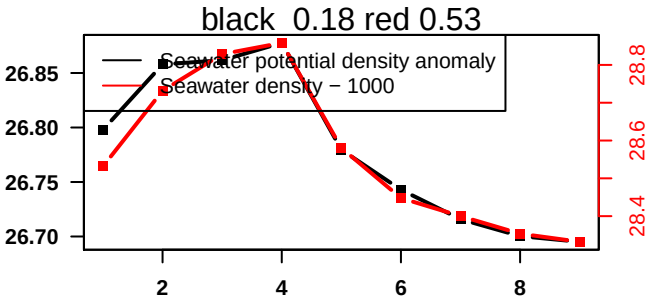

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

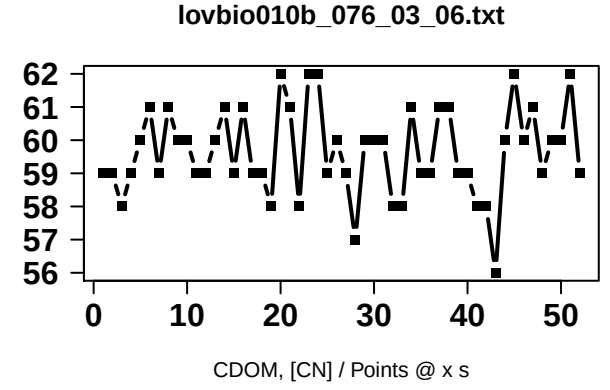

lovbio010b_076_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

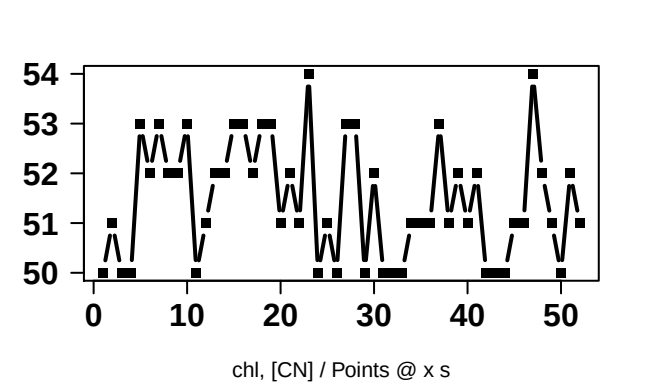

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

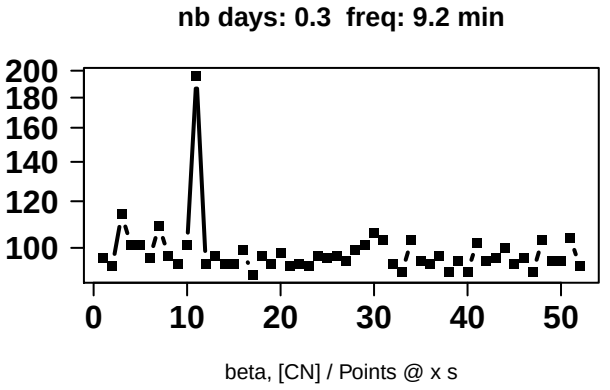

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

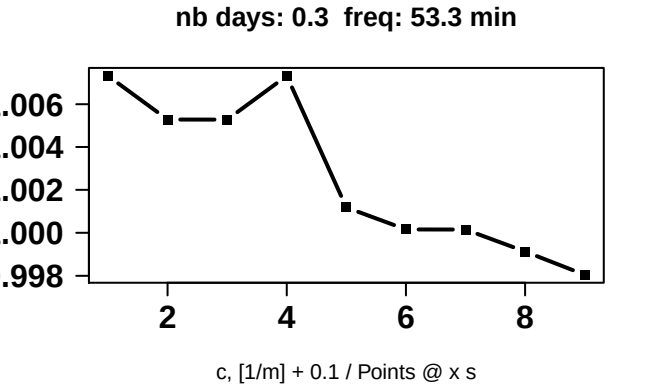

2014−10−24 00:08:56 2014−10−24 08:08:58
440
420
400
380
0
10
20
30
40
50
60
70
Pressure in

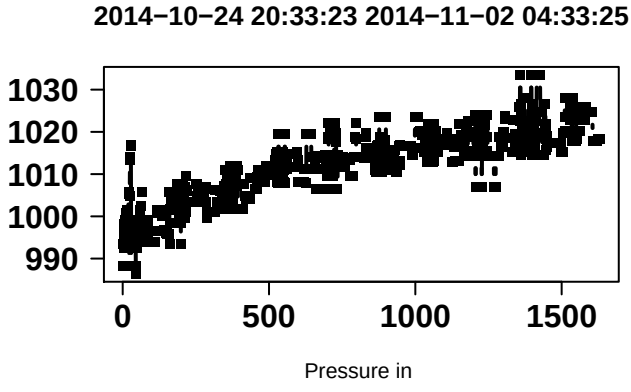

black 0.18 red 0.53
Seawater potential density anomaly
Seawater density − 1000
26.85
26.80
26.75
26.70
2
4
6
8
28.8
28.6
28.4

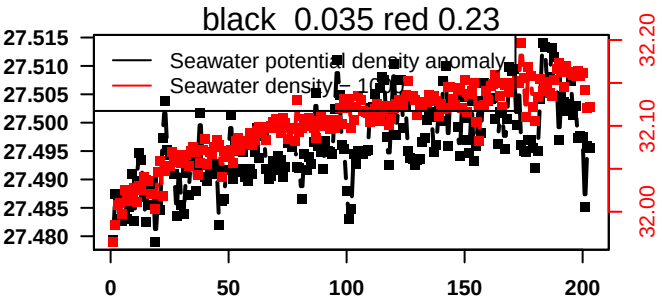

lovbio010b_076_03_06.txt
62
61
60
59
58
57
56
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

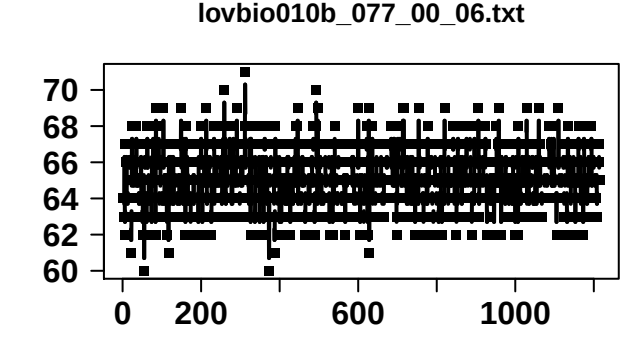

54
53
52
51
50
0
10
20
30
40
50
chl, [CN] / Points @ x s

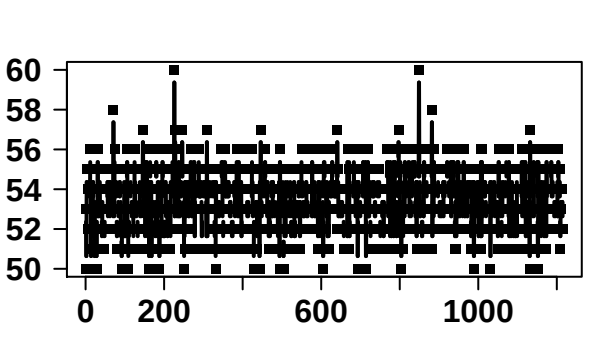

nb days: 0.3 freq: 9.2 min
200
180
160
140
120
100
0
10
20
30
40
50
beta, [CN] / Points @ x s

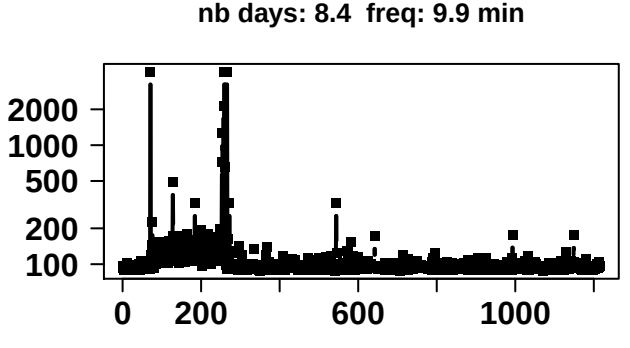

nb days: 0.3 freq: 53.3 min
1.006
1.004
1.002
1.000
0.998
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

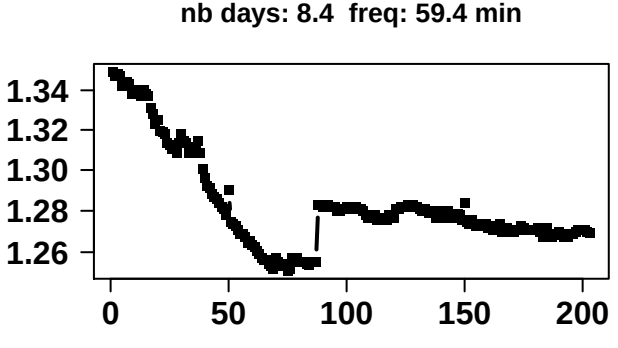

2014−10−24 20:33:23 2014−11−02 04:33:25
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

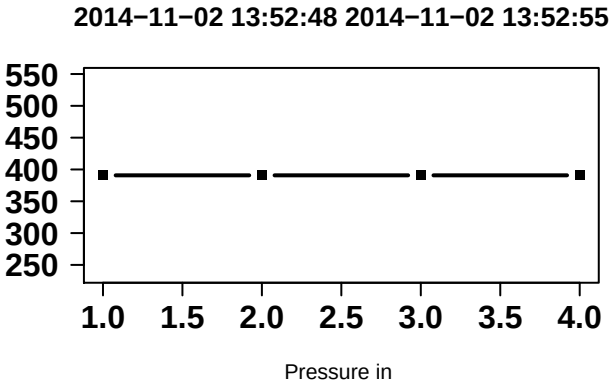

black 0.035 red 0.23
27.515
27.510
27.505
27.500
27.495
27.490
27.485
27.480
Seawater potential density anomaly
Seawater density − 1000
32.20
32.10
32.00
0
50
100
150
200

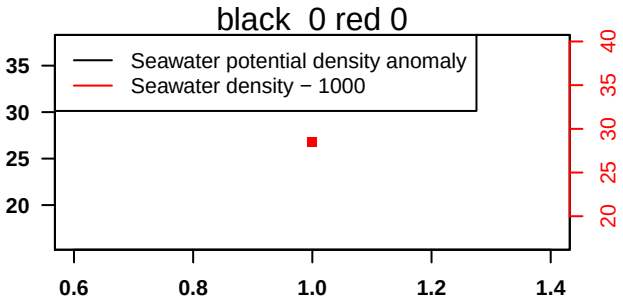

lovbio010b_077_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

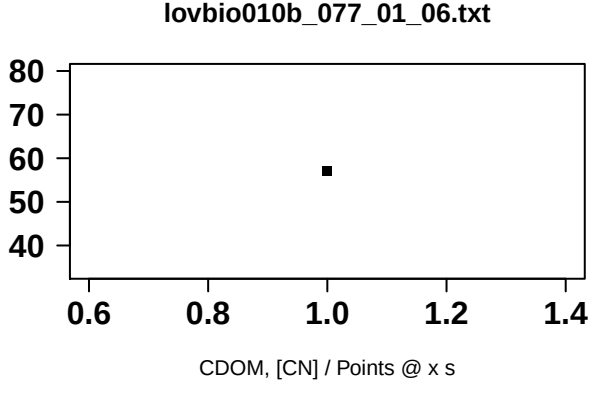

60
58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

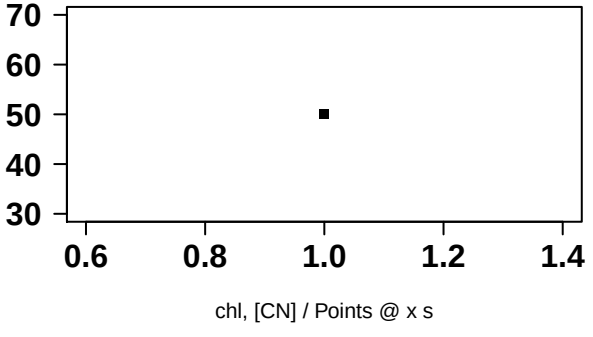

nb days: 8.4 freq: 9.9 min
2000
1000
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

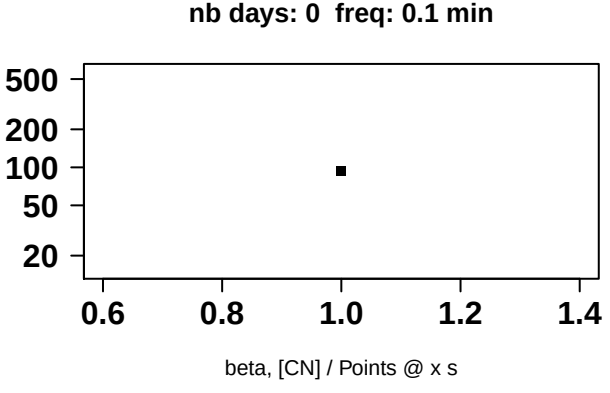

nb days: 8.4 freq: 59.4 min
1.34
1.32
1.30
1.28
1.26
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

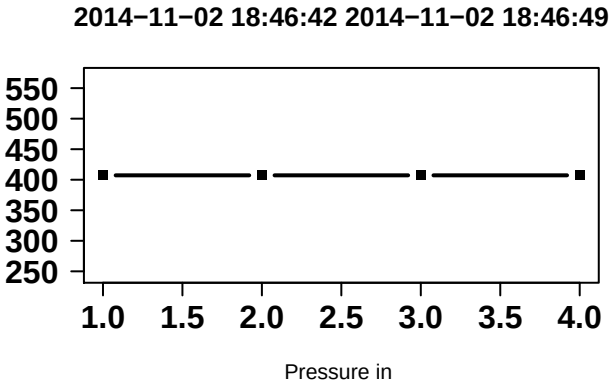

2014−11−02 13:52:48 2014−11−02 13:52:55
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

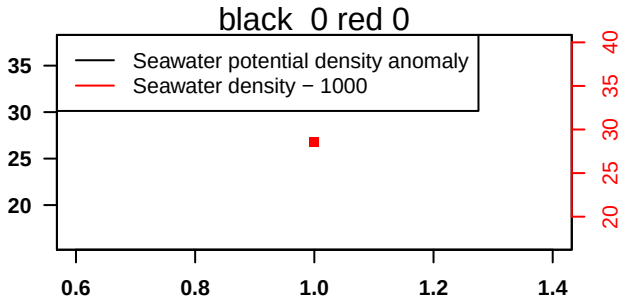

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

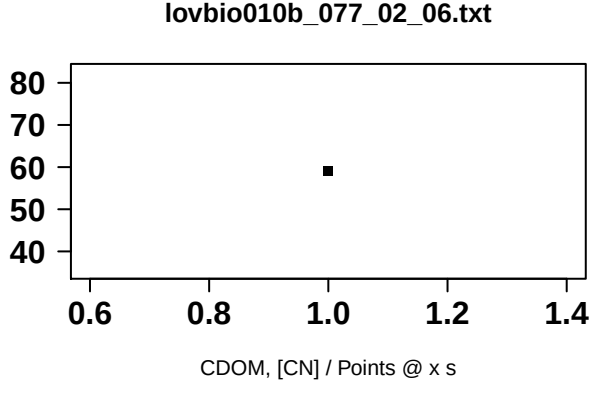

lovbio010b_077_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

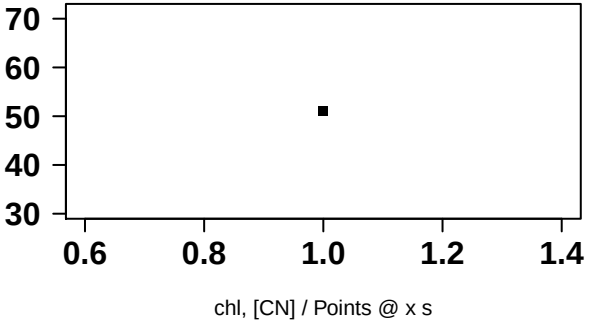

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

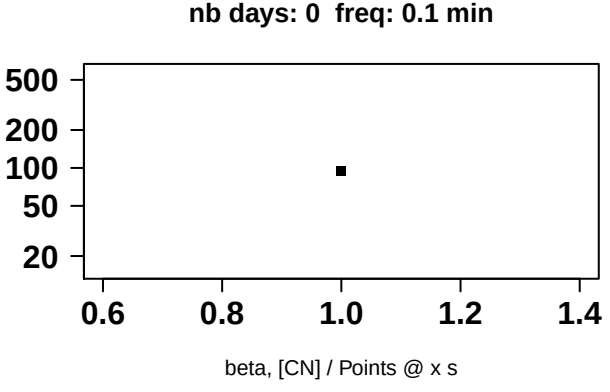

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

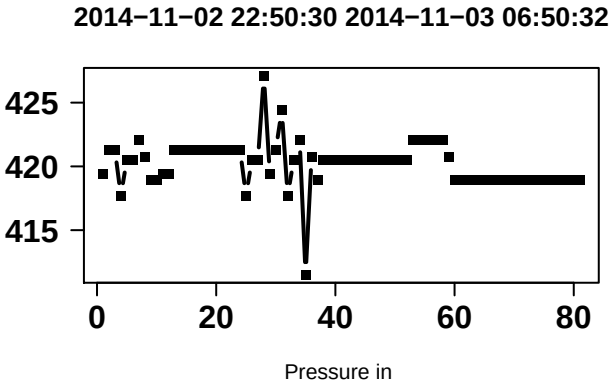

2014−11−02 18:46:42 2014−11−02 18:46:49
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

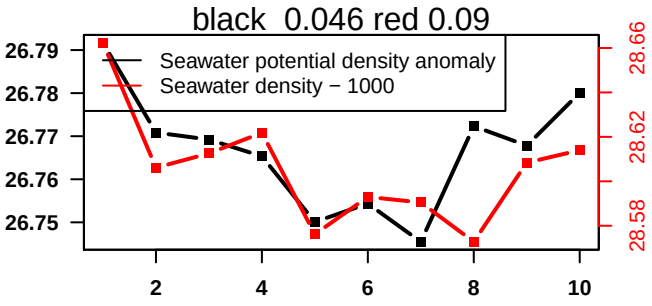

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

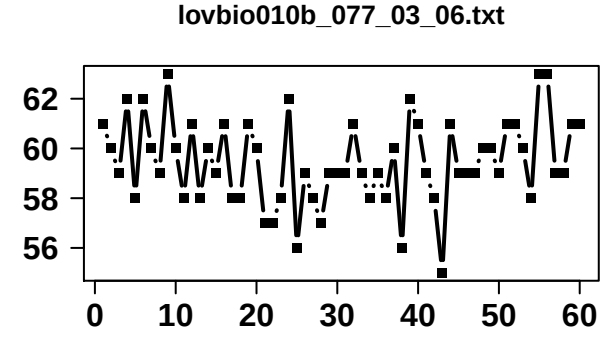

lovbio010b_077_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

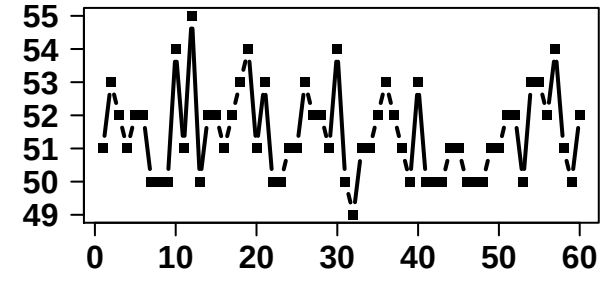

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

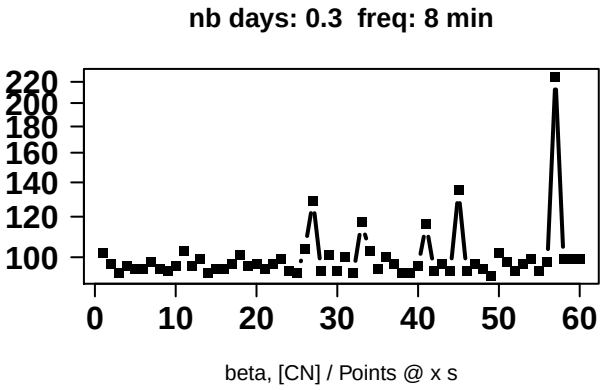

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

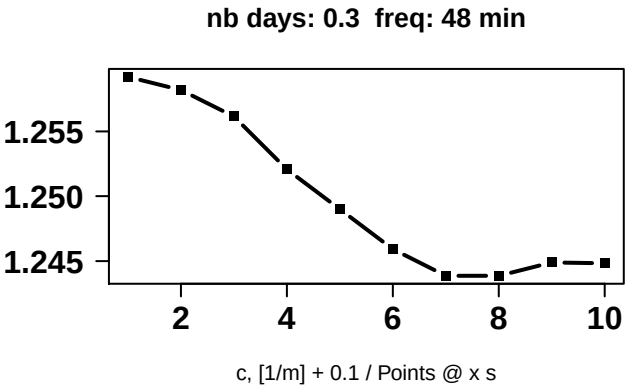

2014−11−02 22:50:30 2014−11−03 06:50:32
425
420
415
0
20
40
60
80
Pressure in

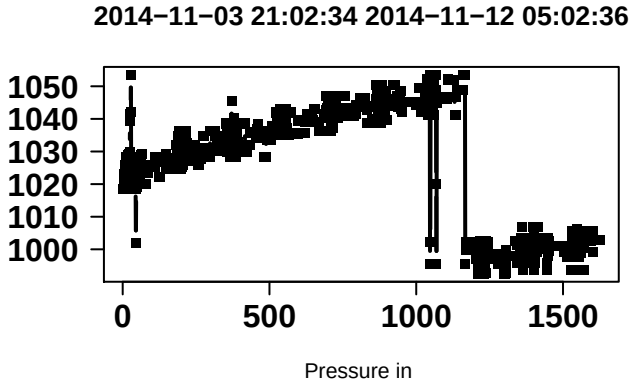

black 0.046 red 0.09
Seawater potential density anomaly
Seawater density − 1000
26.79
26.78
26.77
26.76
26.75
28.66
28.62
28.58
2
4
6
8
10

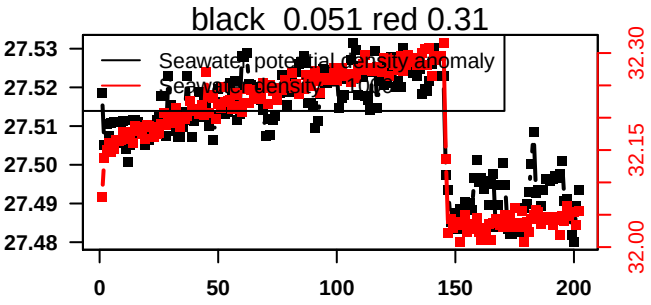

lovbio010b_077_03_06.txt
62
60
58
56
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

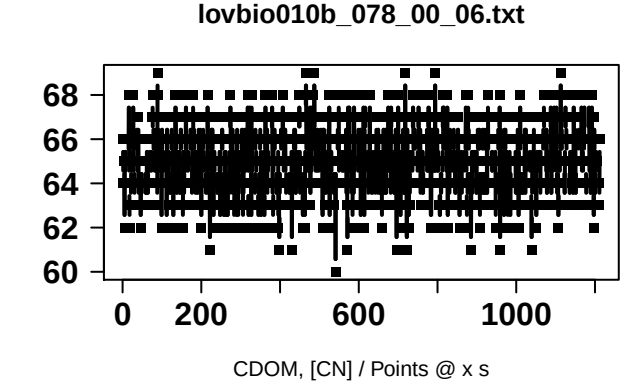

55
54
53
52
51
50
49
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

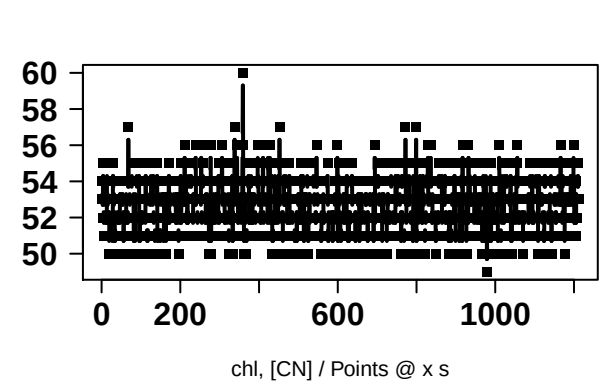

nb days: 0.3 freq: 8 min
220
200
180
160
140
120
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

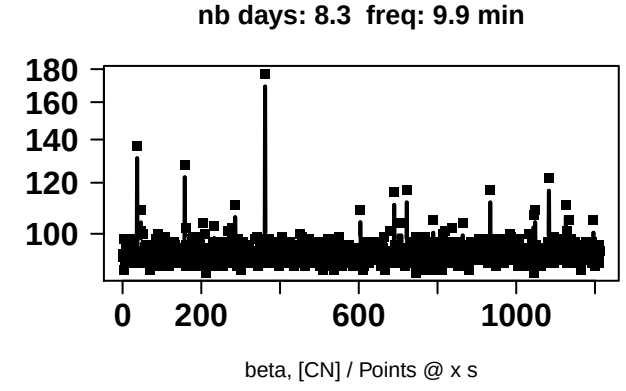

nb days: 0.3 freq: 48 min
1.255
1.250
1.245
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

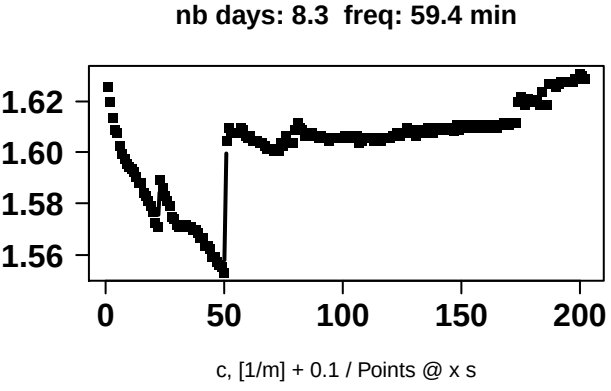

2014−11−03 21:02:34 2014−11−12 05:02:36
1050
1040
1030
1020
1010
1000
0
500
1000
1500
Pressure in

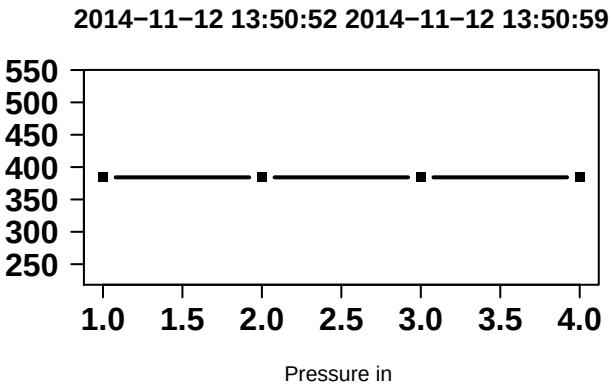

black 0.051 red 0.31
Seawater potential density anomaly
Seawater density −1000
27.53
27.52
27.51
27.50
27.49
27.48
32.30
32.15
32.00
0
50
100
150
200

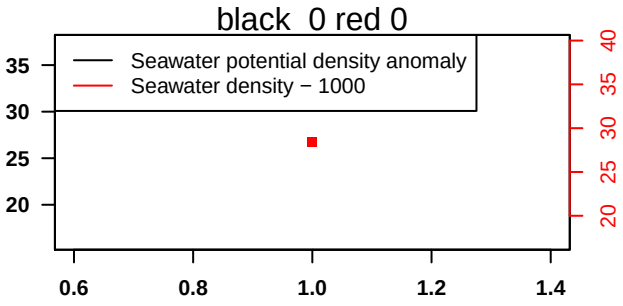

lovbio010b_078_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

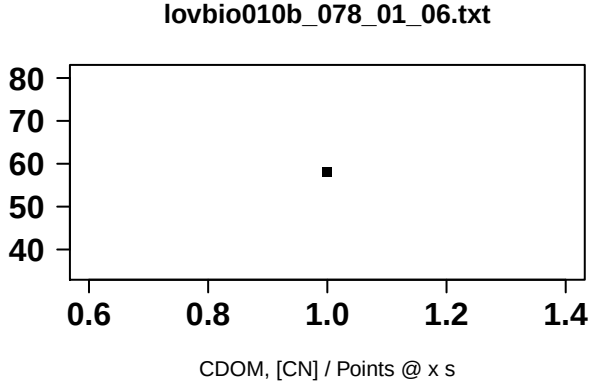

60
58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

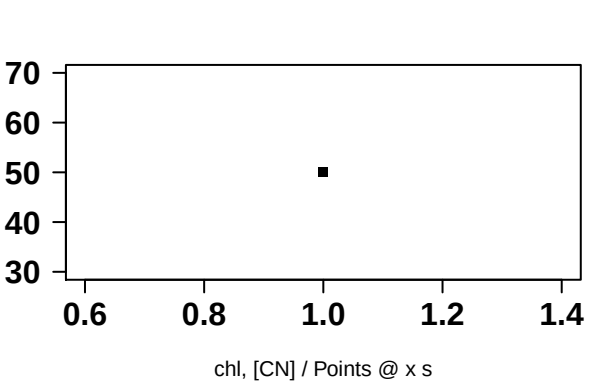

nb days: 8.3 freq: 9.9 min
180
160
140
120
100
0
200
600
1000
beta, [CN] / Points @ x s

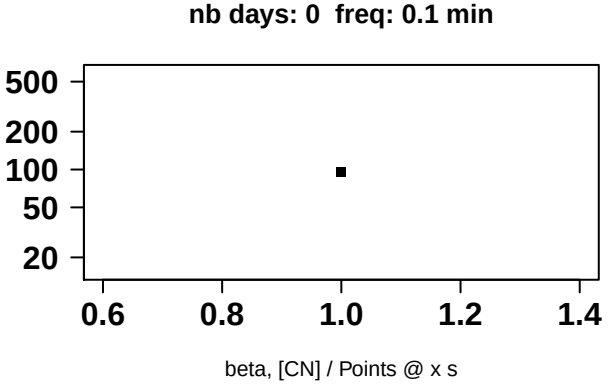

nb days: 8.3 freq: 59.4 min
1.62
1.60
1.58
1.56
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

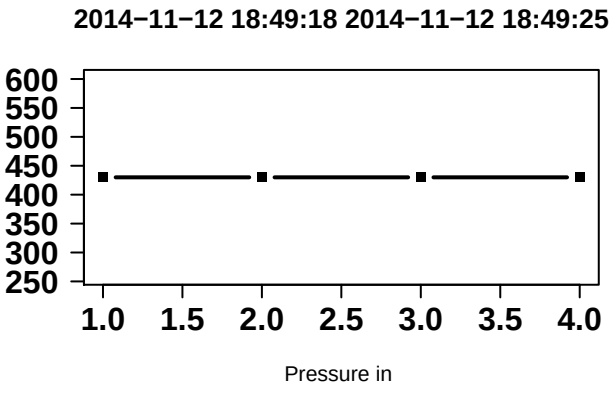

2014−11−12 13:50:52 2014−11−12 13:50:59
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

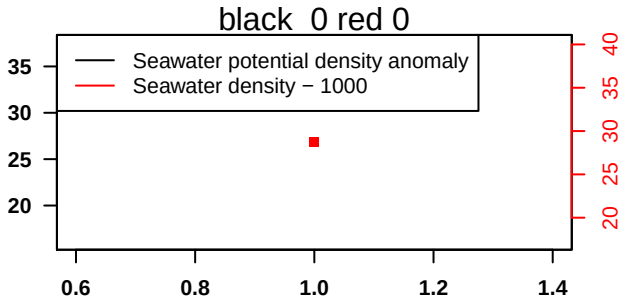

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

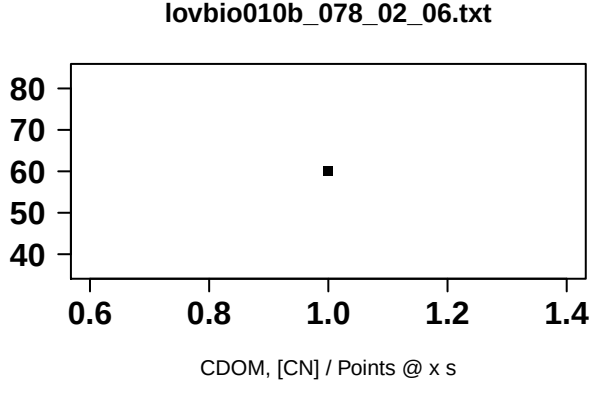

lovbio010b_078_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

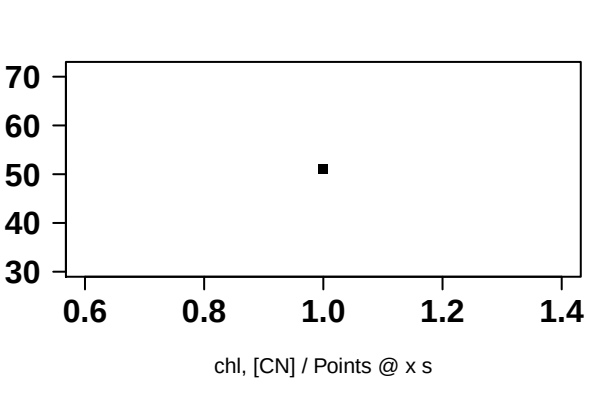

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

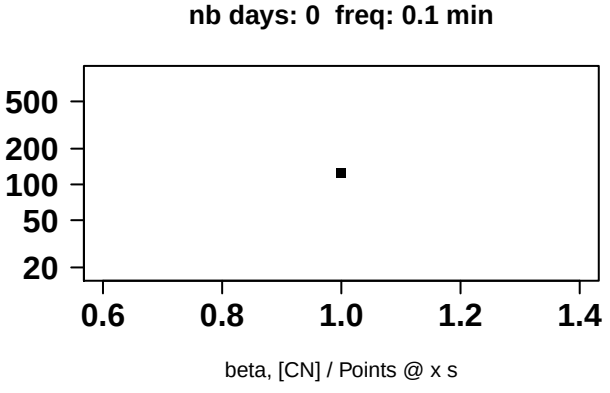

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

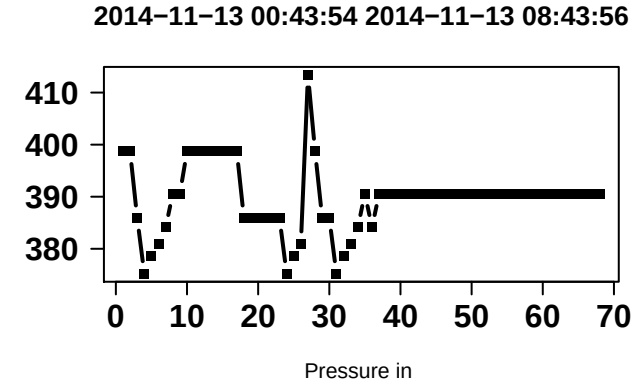

2014−11−12 18:49:18 2014−11−12 18:49:25
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

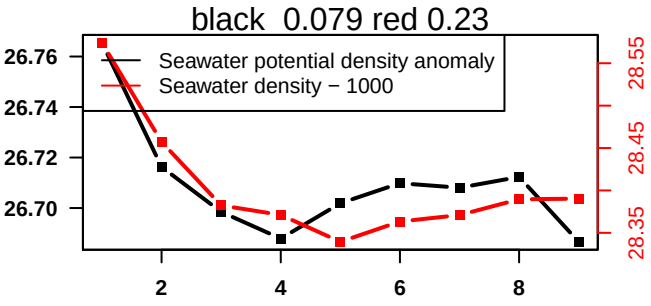

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

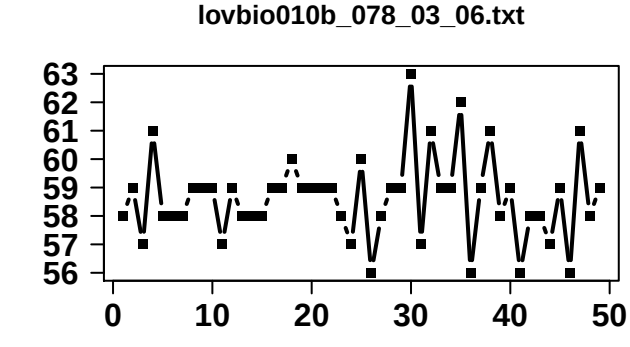

lovbio010b_078_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

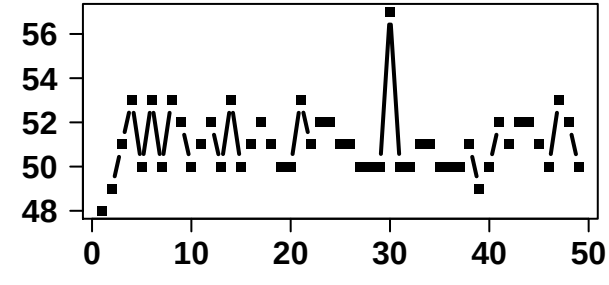

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

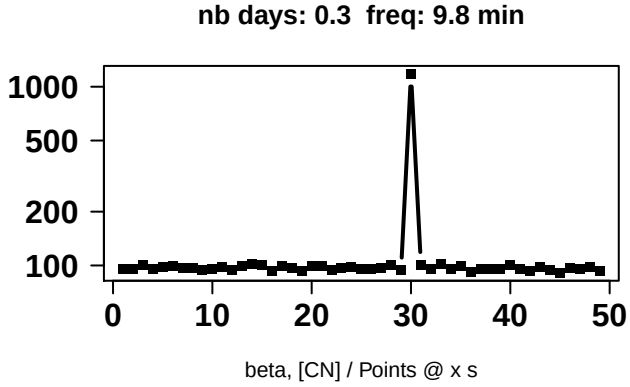

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

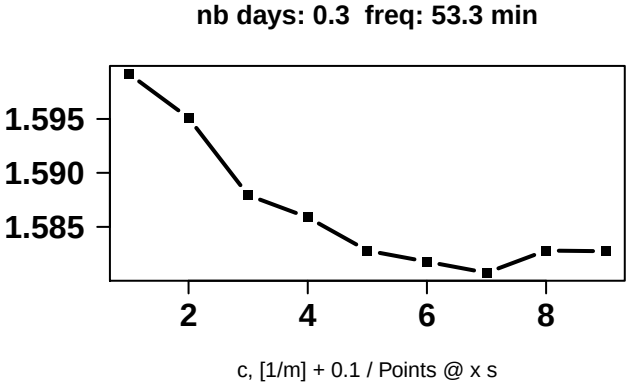

2014−11−13 00:43:54 2014−11−13 08:43:56
410
400
390
380
0
10
20
30
40
50
60
70
Pressure in

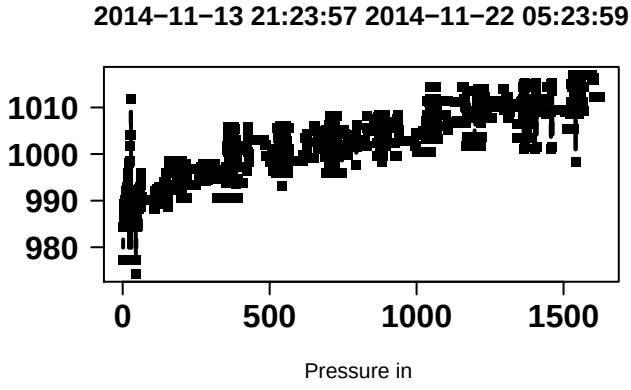

black 0.079 red 0.23
Seawater potential density anomaly
Seawater density − 1000
26.76
26.74
26.72
26.70
28.55
28.45
28.35
2
4
6
8

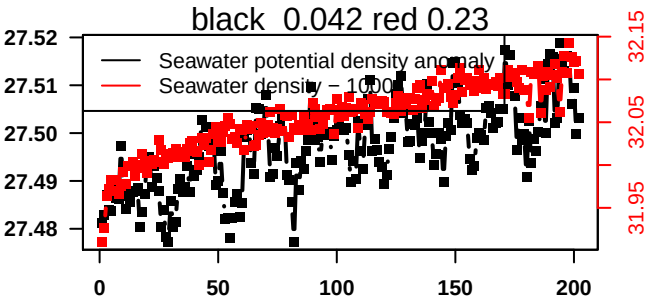

lovbio010b_078_03_06.txt
63
62
61
60
59
58
57
56
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

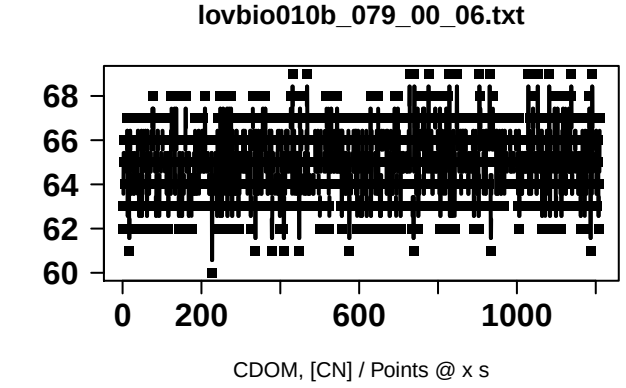

56
54
52
50
48
0
10
20
30
40
50
chl, [CN] / Points @ x s

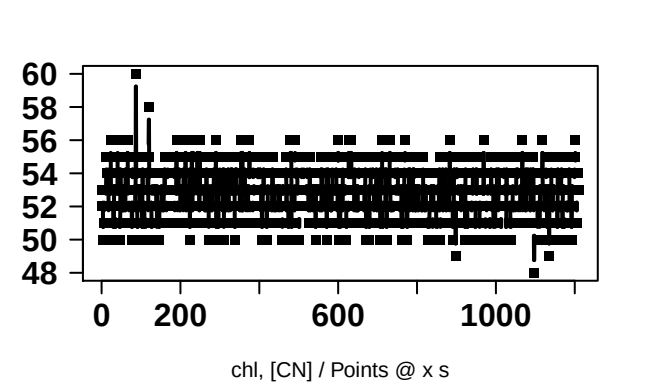

nb days: 0.3 freq: 9.8 min
1000
500
200
100
0
10
20
30
40
50
beta, [CN] / Points @ x s

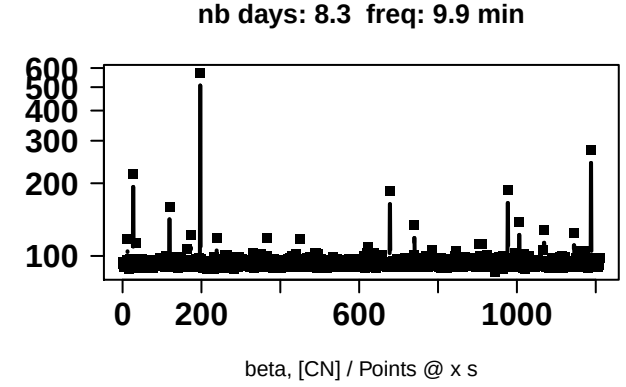

nb days: 0.3 freq: 53.3 min
1.595
1.590
1.585
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

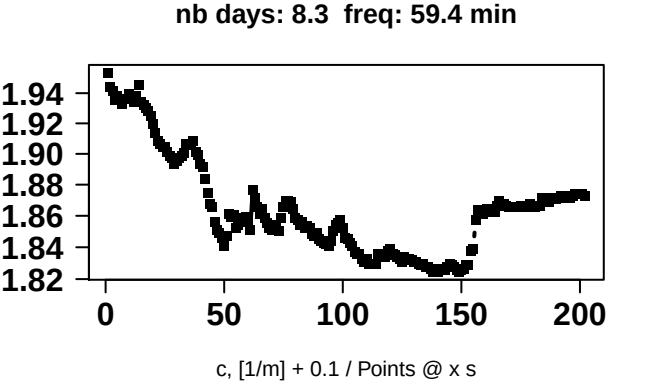

2014−11−13 21:23:57 2014−11−22 05:23:59
1010
1000
990
980
0
500
1000
1500
Pressure in

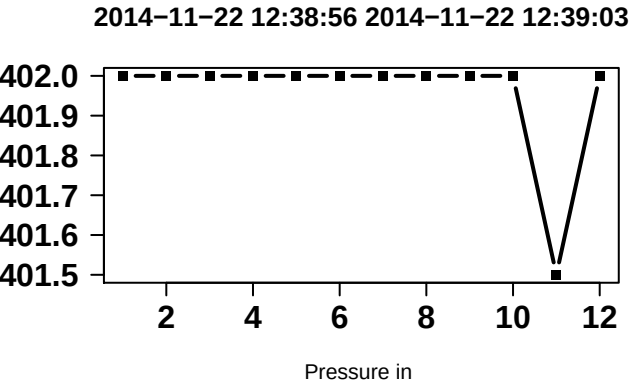

black 0.042 red 0.23
27.52
27.51
27.50
27.49
27.48
Seawater potential density anomaly
Seawater density − 1000
32.15
32.05
31.95
0
50
100
150
200

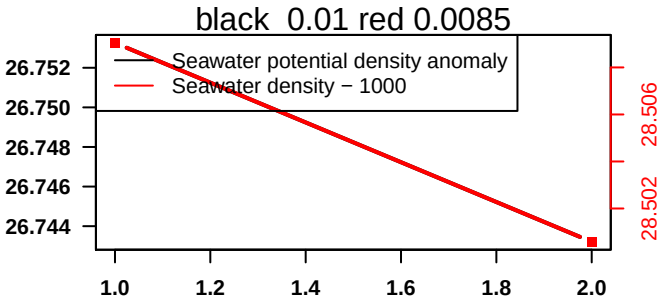

lovbio010b_079_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

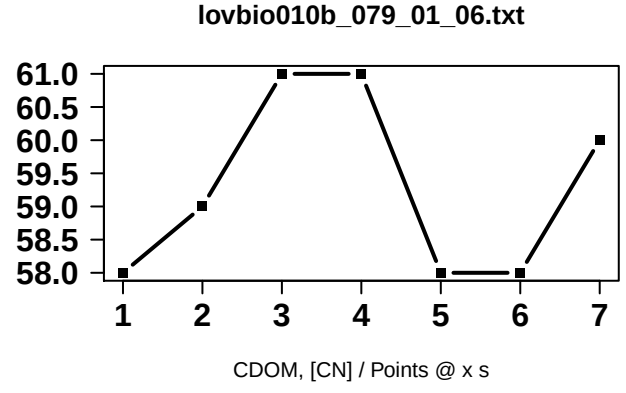

60
58
56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

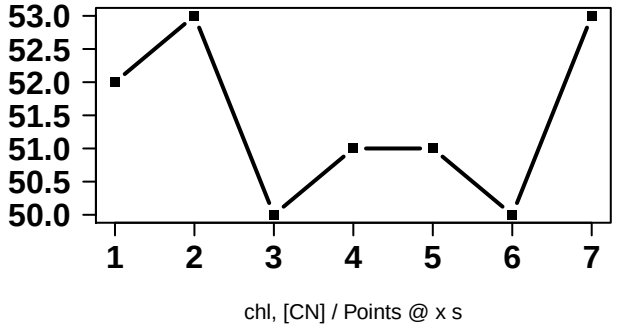

nb days: 8.3 freq: 9.9 min
600
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

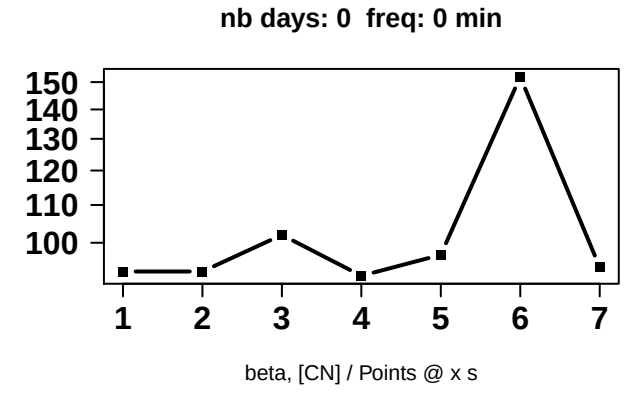

nb days: 8.3 freq: 59.4 min
1.94
1.92
1.90
1.88
1.86
1.84
1.82
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

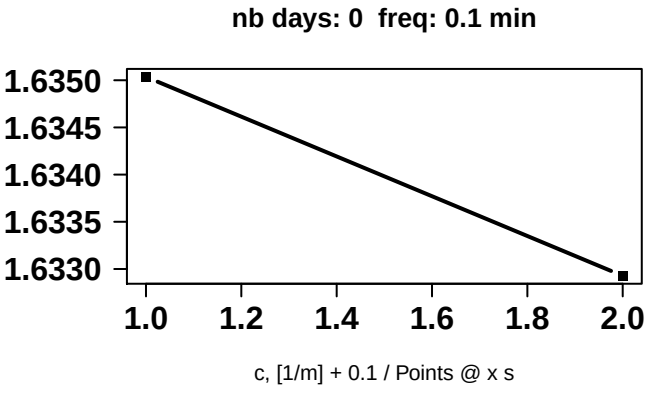

2014−11−22 12:38:56 2014−11−22 12:39:03
402.0
401.9
401.8
401.7
401.6
401.5
2
4
6
8
10
12
Pressure in

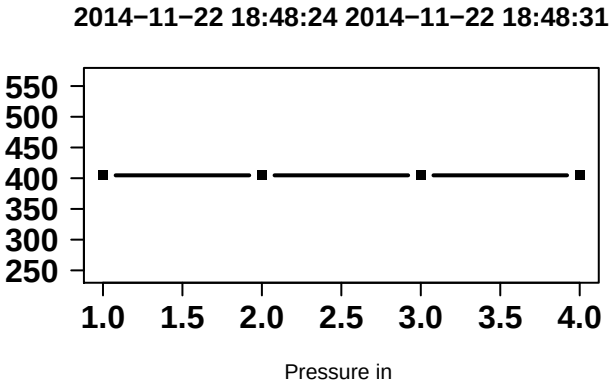

black 0.01 red 0.0085
Seawater potential density anomaly
Seawater density − 1000
26.752
26.750
26.748
26.746
26.744
28.506
28.502
1.0
1.2
1.4
1.6
1.8
2.0

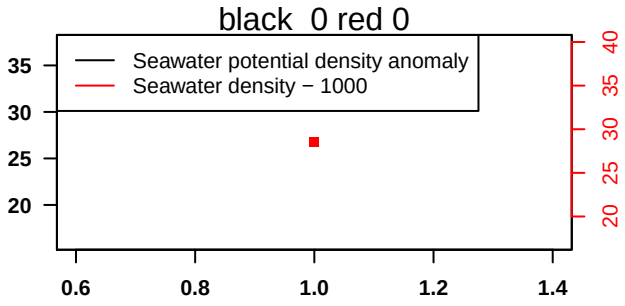

lovbio010b_079_01_06.txt
61.0
60.5
60.0
59.5
59.0
58.5
58.0
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

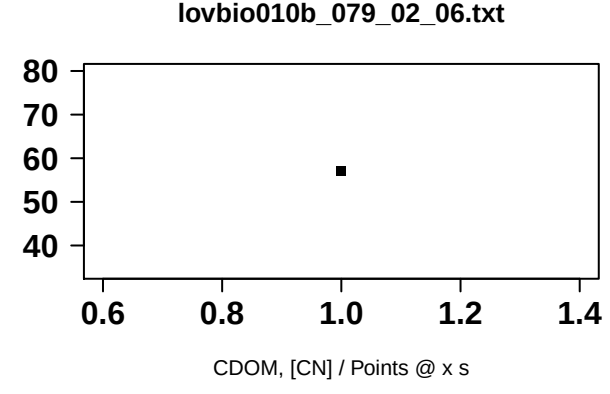

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

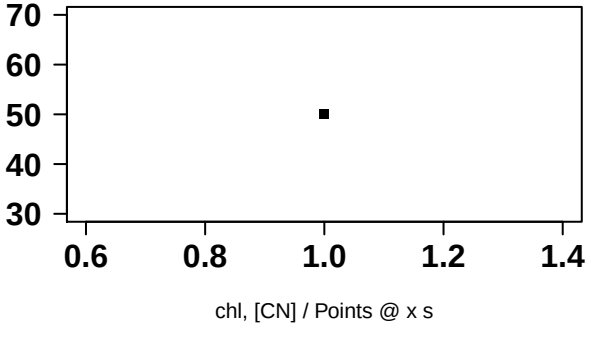

nb days: 0 freq: 0 min
150
140
130
120
110
100
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

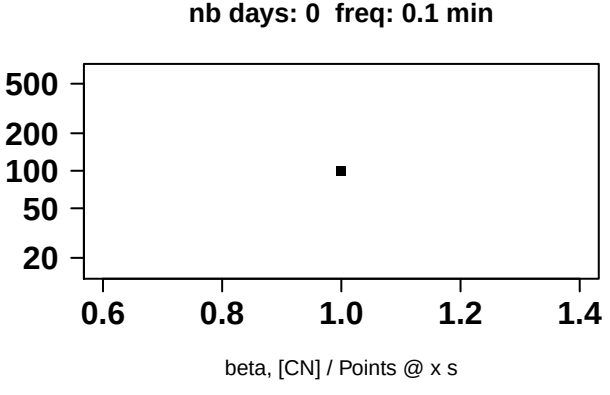

nb days: 0 freq: 0.1 min
1.6350
1.6345
1.6340
1.6335
1.6330
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

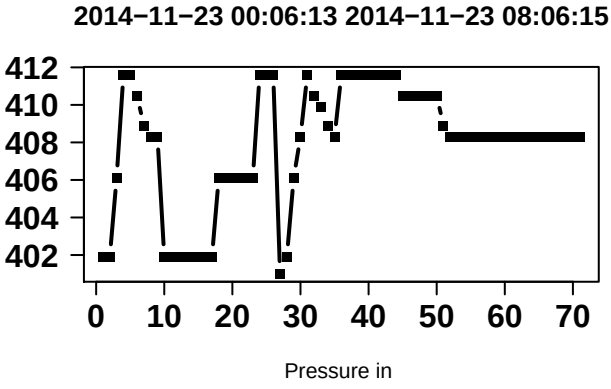

2014−11−22 18:48:24 2014−11−22 18:48:31
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

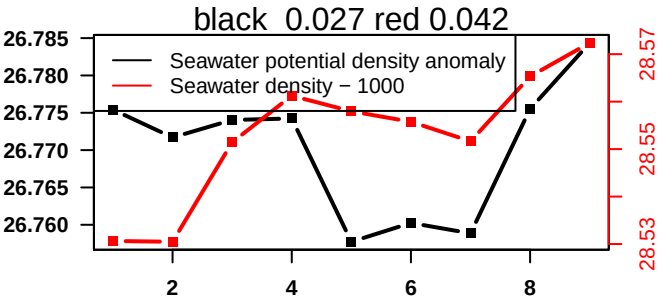

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

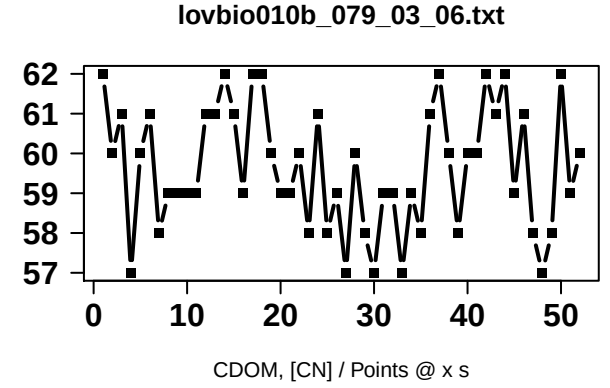

lovbio010b_079_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

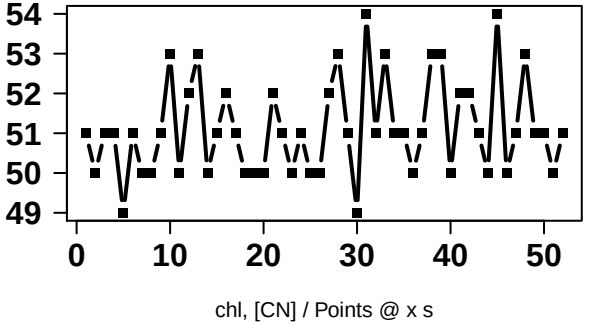

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

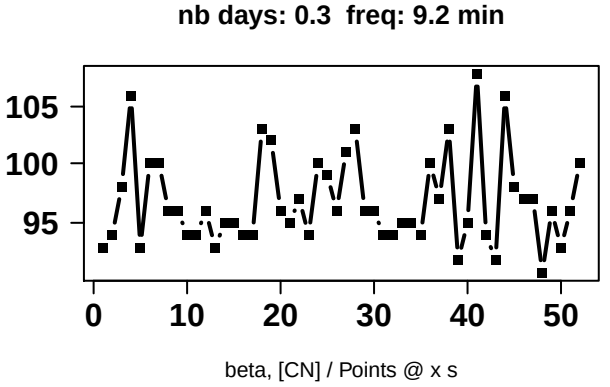

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

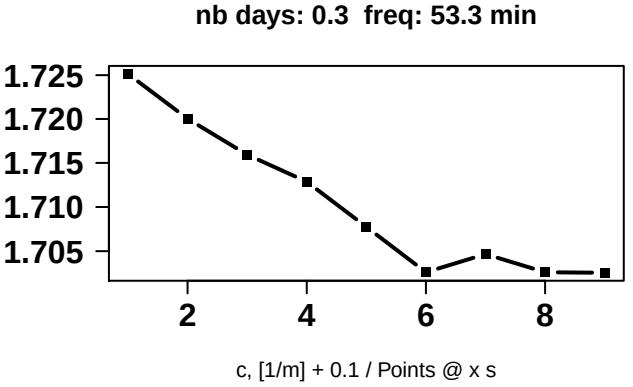

2014−11−23 00:06:13 2014−11−23 08:06:15
412
410
408
406
404
402
0
10
20
30
40
50
60
70
Pressure in

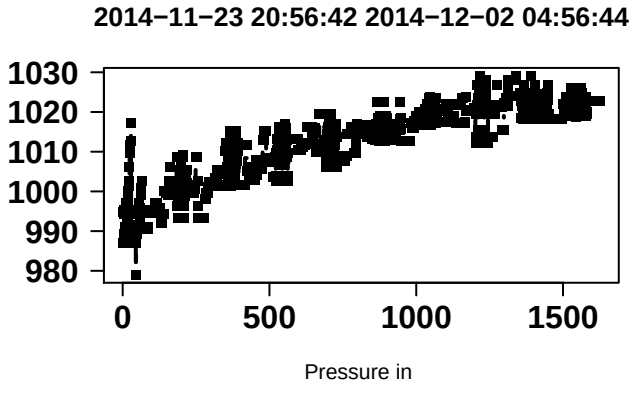

black 0.027 red 0.042
Seawater potential density anomaly
Seawater density − 1000
26.785
26.780
26.775
26.770
26.765
26.760
28.57
28.55
28.53
2
4
6
8

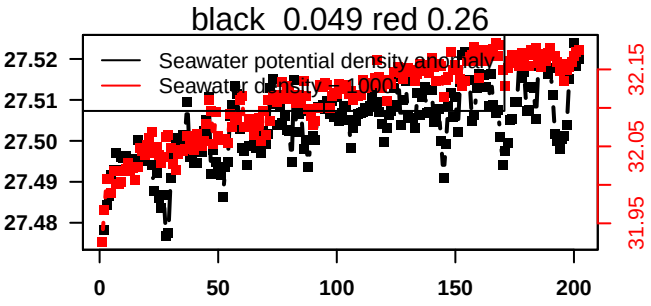

lovbio010b_079_03_06.txt
62
61
60
59
58
57
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

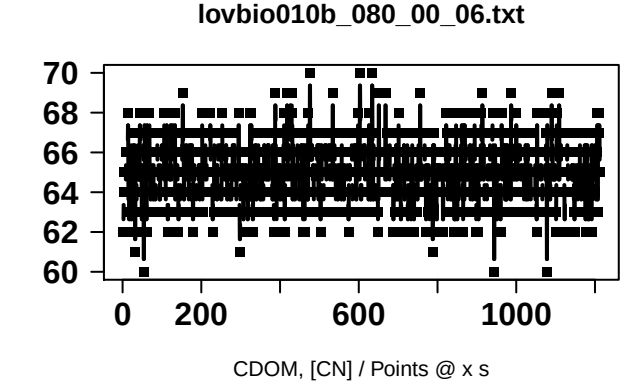

54
53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

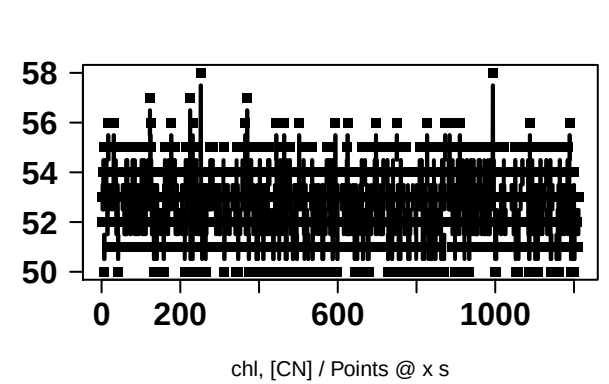

nb days: 0.3 freq: 9.2 min
105
100
95
0
10
20
30
40
50
beta, [CN] / Points @ x s

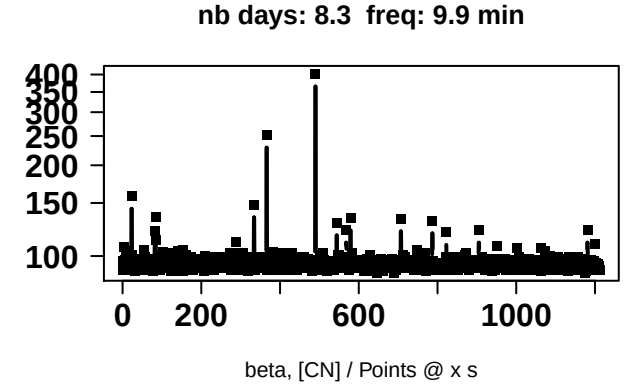

nb days: 0.3 freq: 53.3 min
1.725
1.720
1.715
1.710
1.705
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

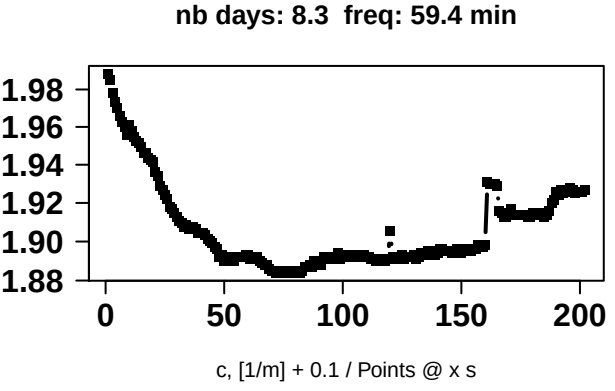

2014−11−23 20:56:42 2014−12−02 04:56:44
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

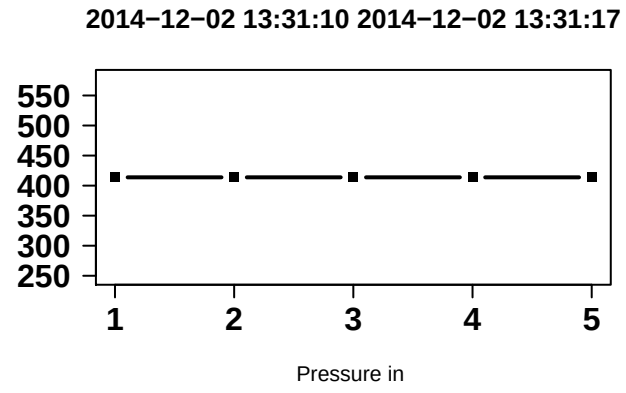

black 0.049 red 0.26
Seawater potential density anomaly
Seawater density − 1000 kg
27.52
27.51
27.50
27.49
27.48
32.15
32.05
31.95
0
50
100
150
200

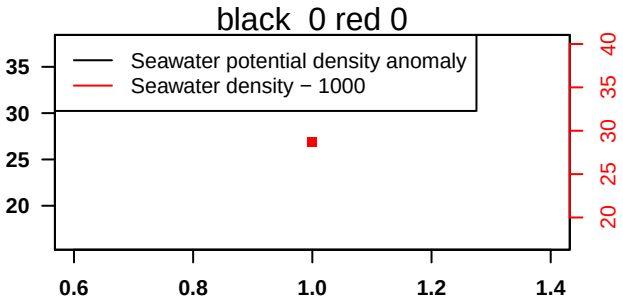

lovbio010b_080_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

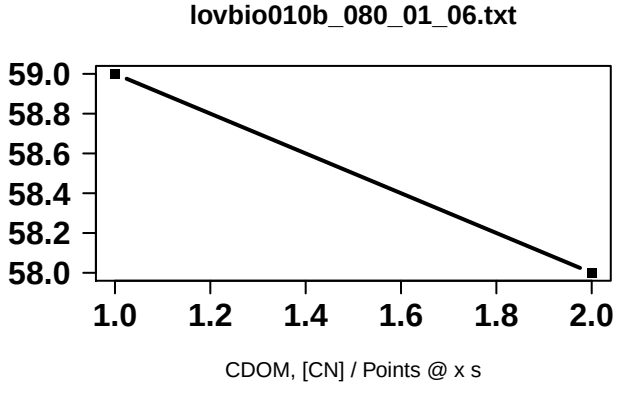

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

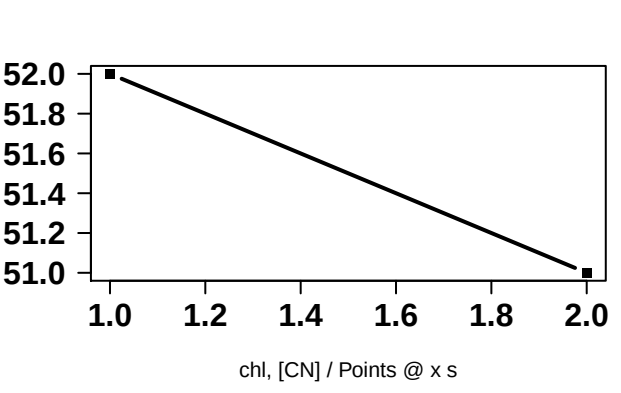

nb days: 8.3 freq: 9.9 min
400
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

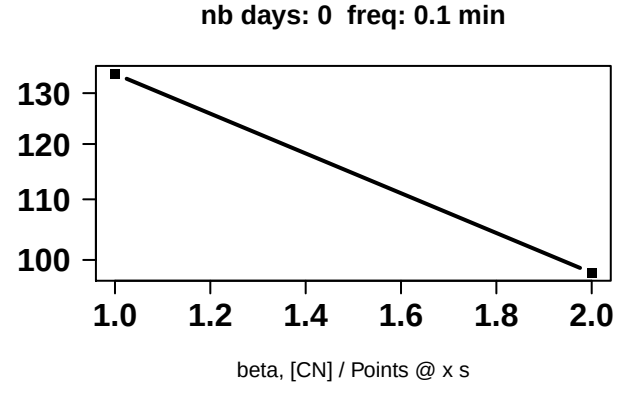

nb days: 8.3 freq: 59.4 min
1.98
1.96
1.94
1.92
1.90
1.88
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

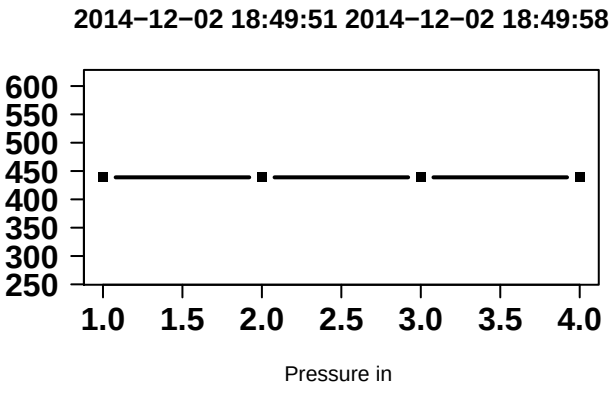

2014−12−02 13:31:10 2014−12−02 13:31:17
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

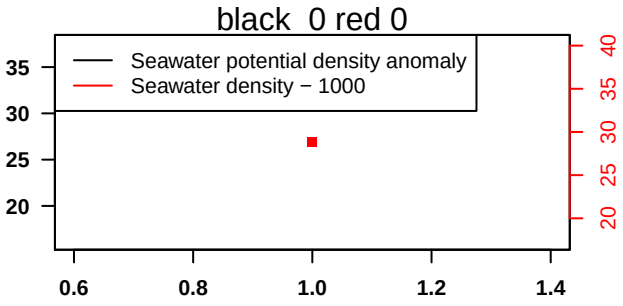

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

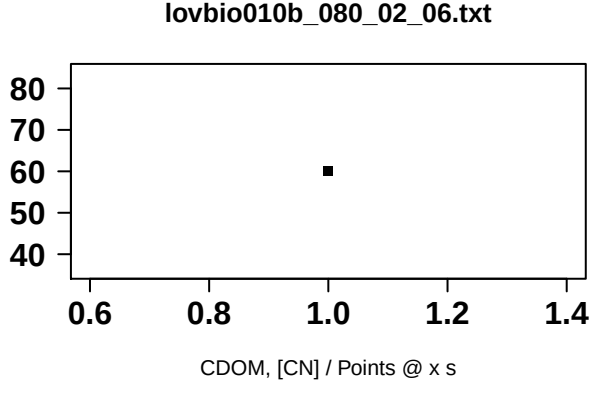

lovbio010b_080_01_06.txt
59.0
58.8
58.6
58.4
58.2
58.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

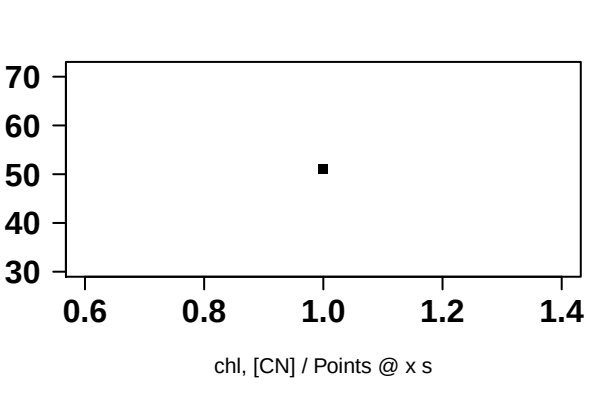

52.0
51.8
51.6
51.4
51.2
51.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

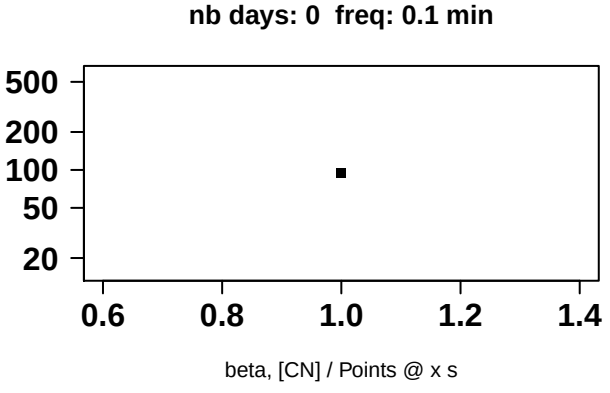

nb days: 0 freq: 0.1 min
130
120
110
100
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

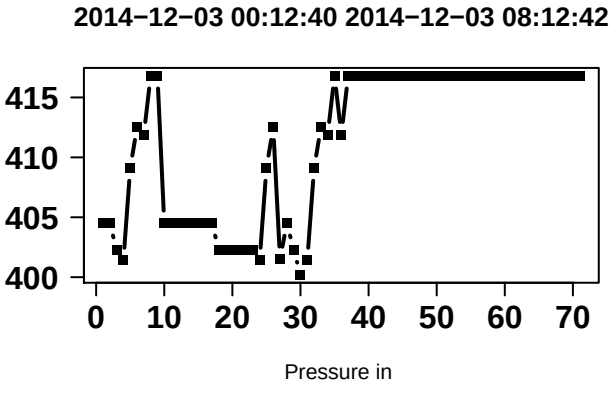

2014−12−02 18:49:51 2014−12−02 18:49:58
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

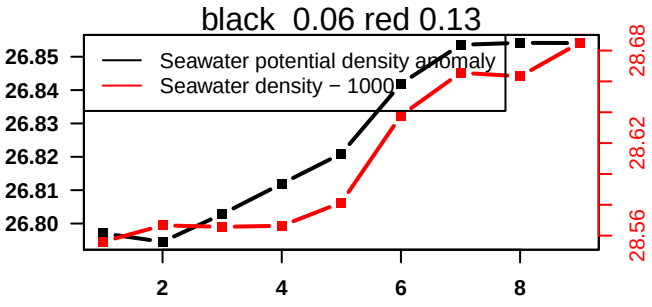

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

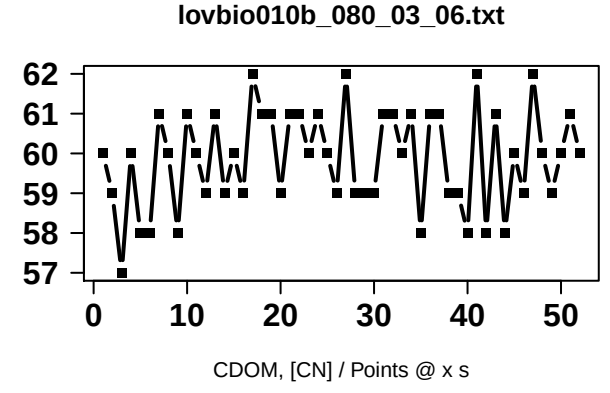

lovbio010b_080_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

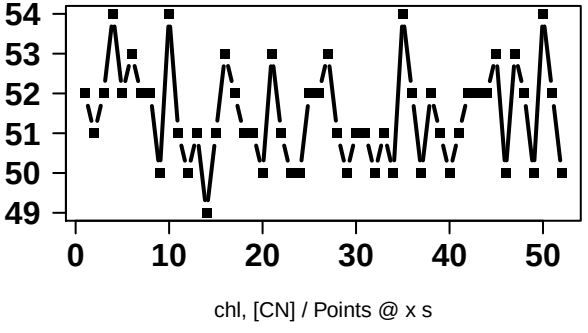

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

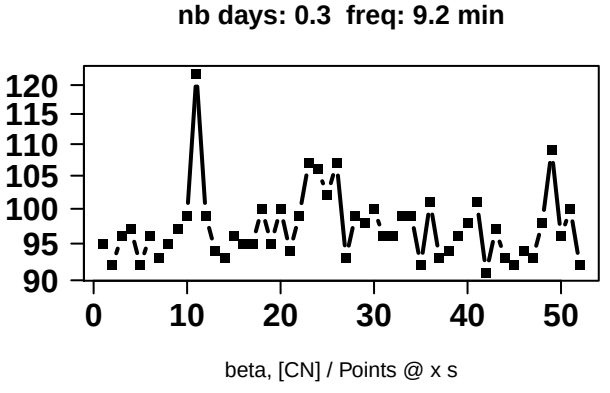

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

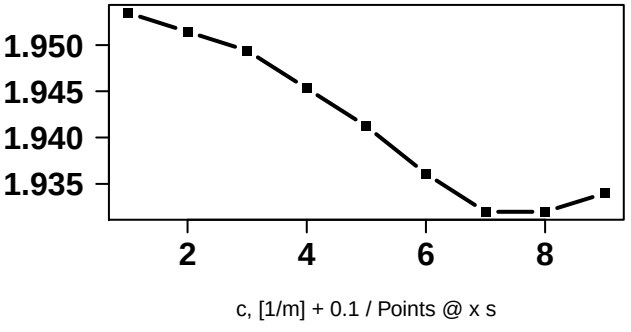

2014−12−03 00:12:40 2014−12−03 08:12:42
415
410
405
400
0
10
20
30
40
50
60
70
Pressure in

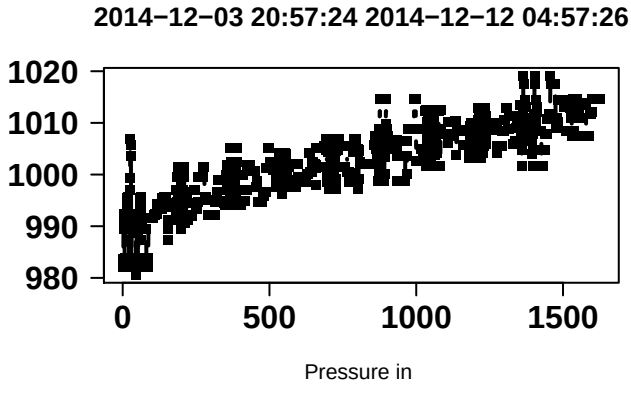

black 0.06 red 0.13
Seawater potential density anomaly
Seawater density − 1000
26.85
26.84
26.83
26.82
26.81
26.80
28.68
28.62
28.56
2
4
6
8

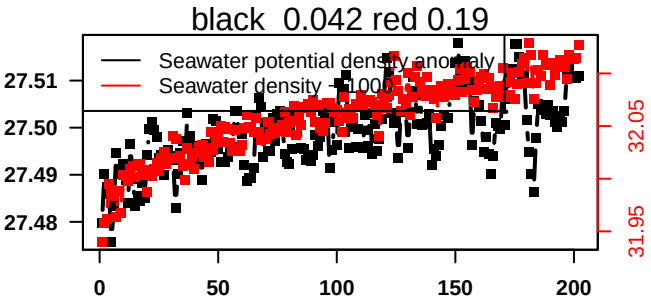

lovbio010b_080_03_06.txt
62
61
60
59
58
57
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

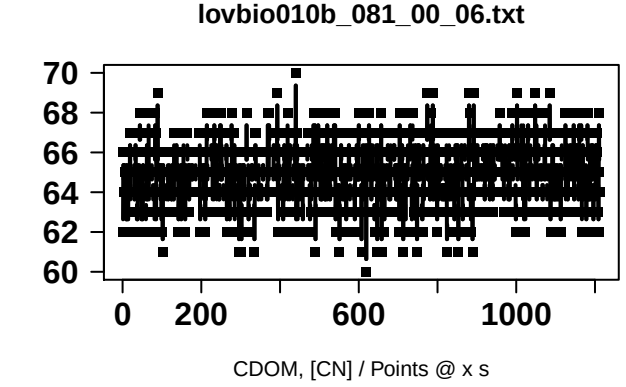

54
53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

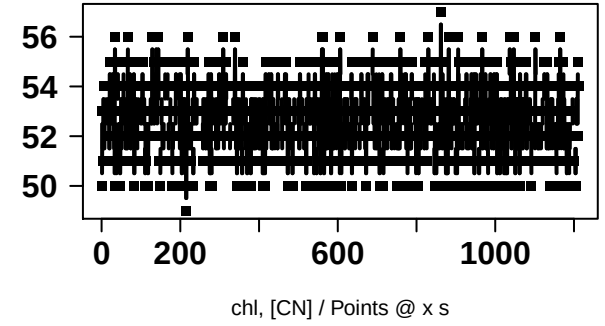

nb days: 0.3 freq: 9.2 min
120
115
110
105
100
95
90
0
10
20
30
40
50
beta, [CN] / Points @ x s

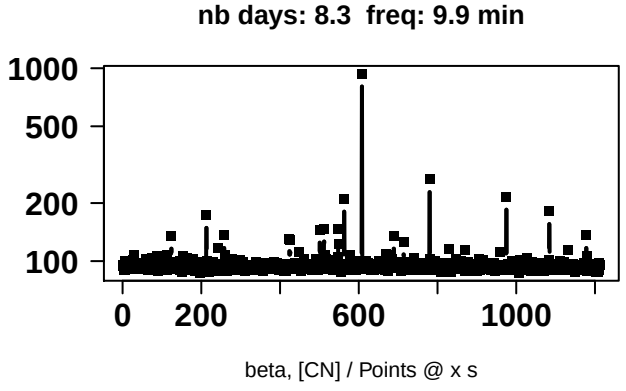

nb days: 0.3 freq: 53.3 min
1.950
1.945
1.940
1.935
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

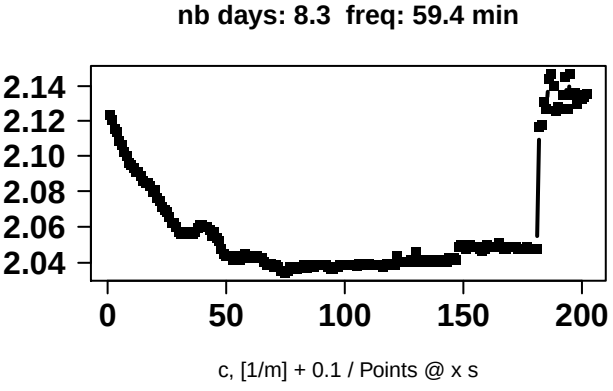

2014−12−03 20:57:24 2014−12−12 04:57:26
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

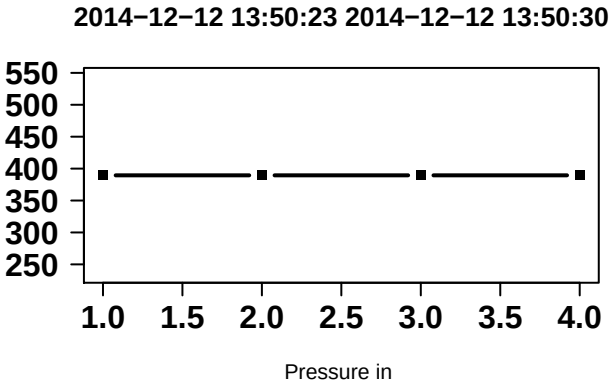

black 0.042 red 0.19
Seawater potential density anomaly
Seawater density − 1000
27.51
27.50
27.49
27.48
32.05
31.95
0
50
100
150
200

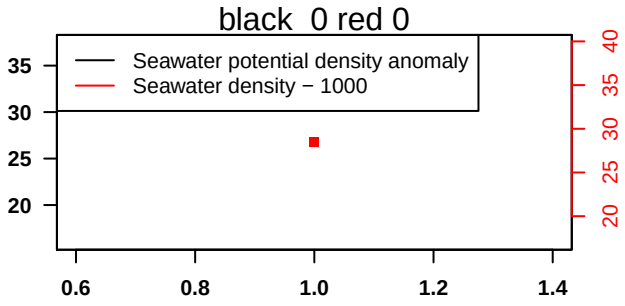

lovbio010b_081_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

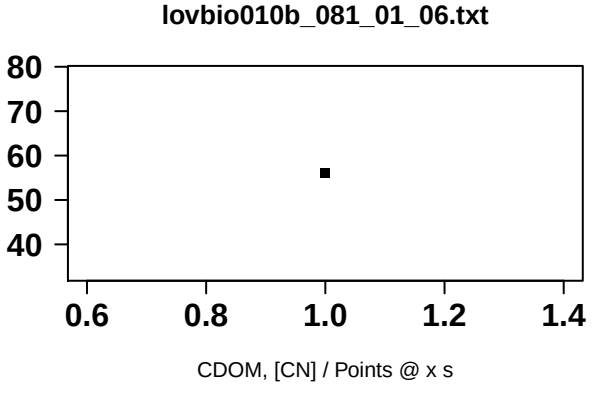

56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

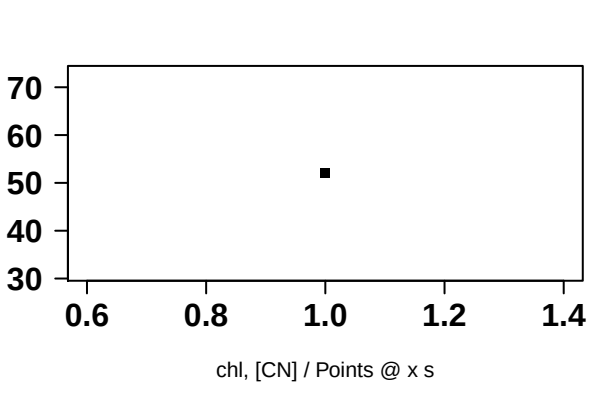

nb days: 8.3 freq: 9.9 min
1000
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

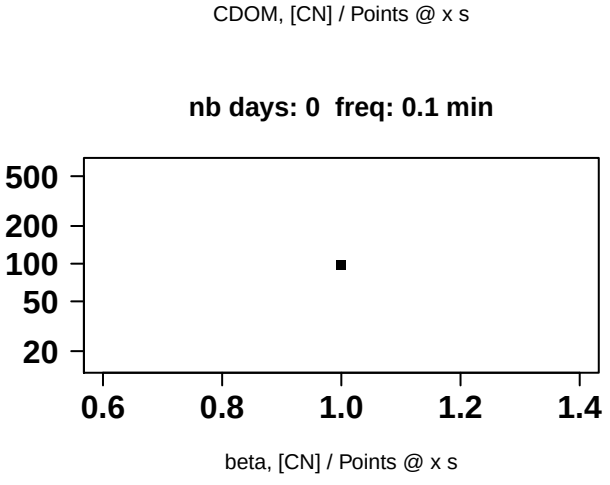

nb days: 8.3 freq: 59.4 min
2.14
2.12
2.10
2.08
2.06
2.04
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

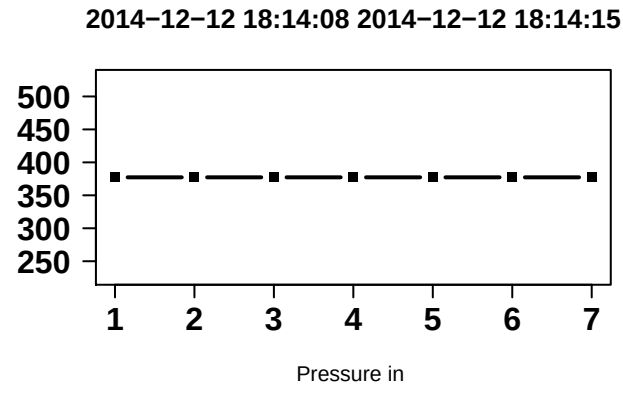

2014−12−12 13:50:23 2014−12−12 13:50:30
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

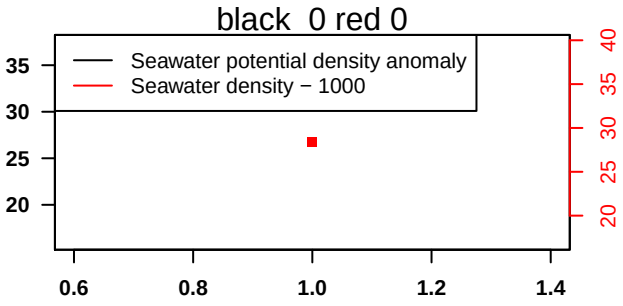

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

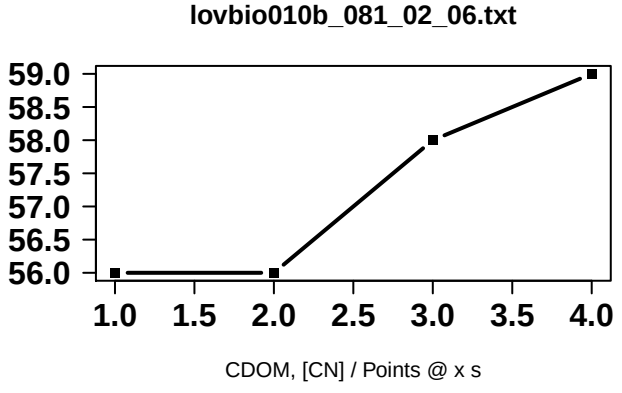

lovbio010b_081_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

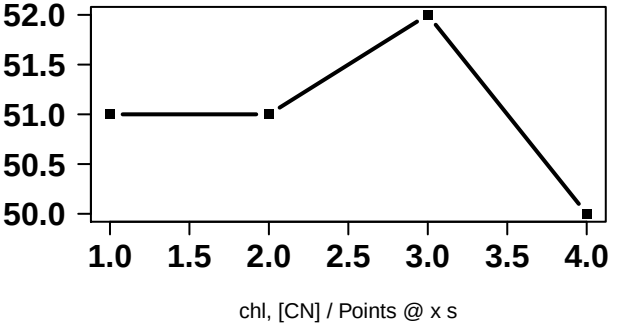

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

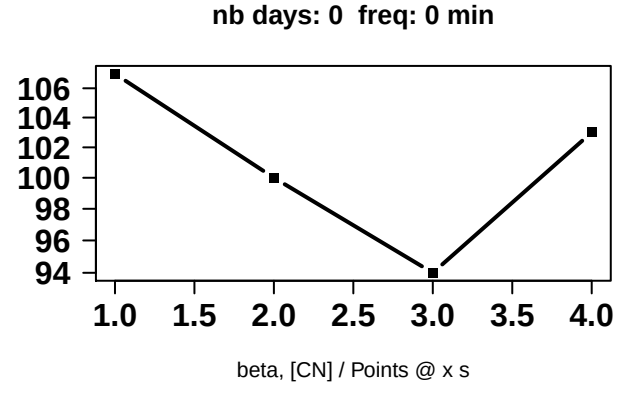

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

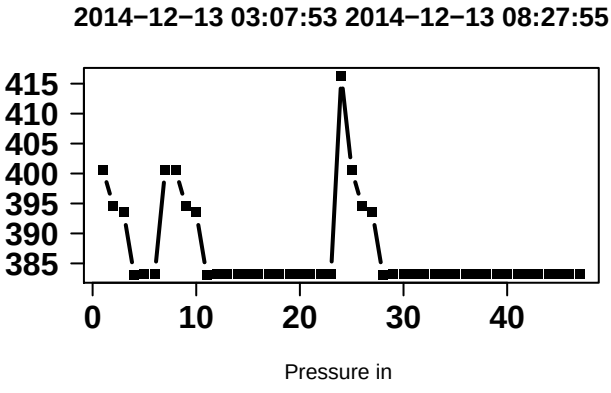

2014−12−12 18:14:08 2014−12−12 18:14:15
500
450
400
350
300
250
1
2
3
4
5
6
7
Pressure in

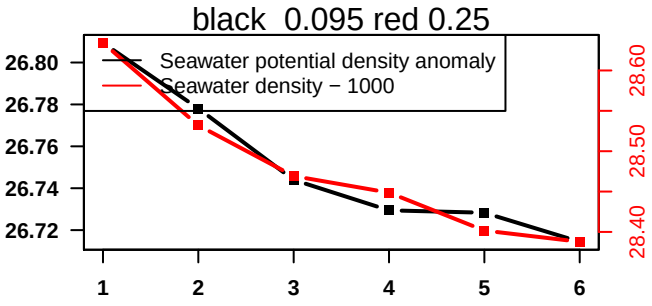

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

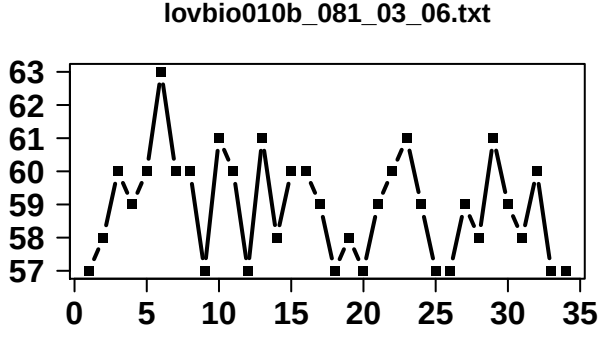

lovbio010b_081_02_06.txt
59.0
58.5
58.0
57.5
57.0
56.5
56.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

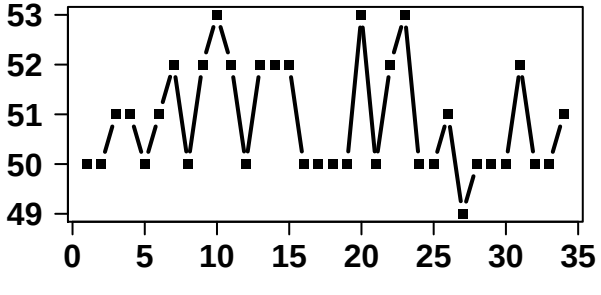

52.0
51.5
51.0
50.5
50.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

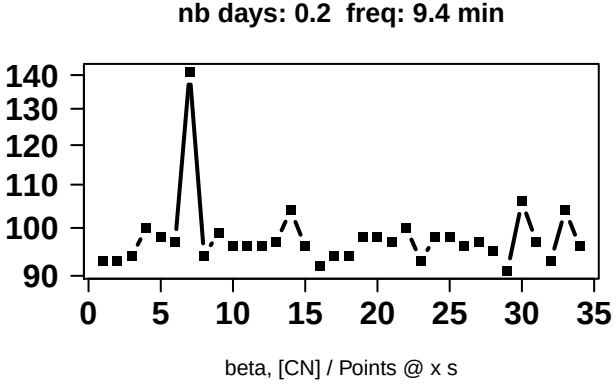

nb days: 0 freq: 0 min
106
104
102
100
98
96
94
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

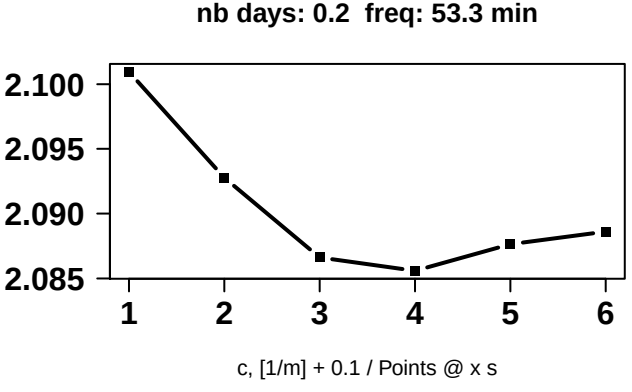

2014−12−13 03:07:53 2014−12−13 08:27:55
415
410
405
400
395
390
385
0
10
20
30
40
Pressure in

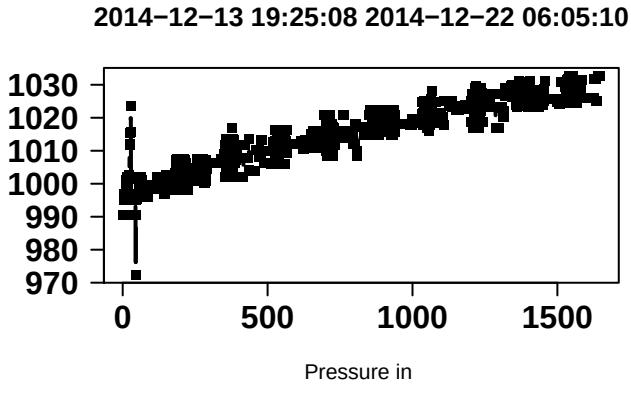

black 0.095 red 0.25
Seawater potential density anomaly
Seawater density − 1000
26.80
26.78
26.76
26.74
26.72
28.60
28.50
28.40
1
2
3
4
5
6

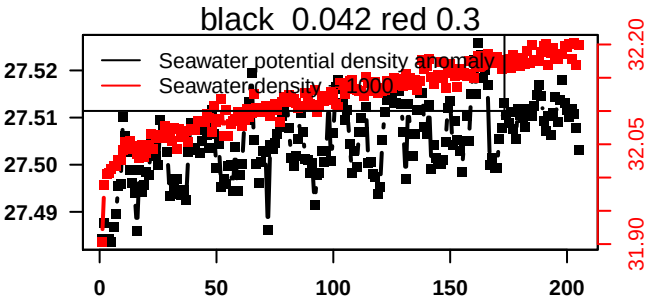

lovbio010b_081_03_06.txt
63
62
61
60
59
58
57
0
5
10
15
20
25
30
35
CDOM, [CN] / Points @ x s

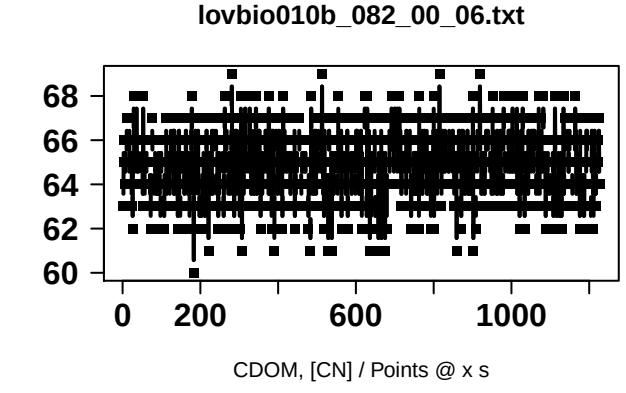

53
52
51
50
49
0
5
10
15
20
25
30
35
chl, [CN] / Points @ x s

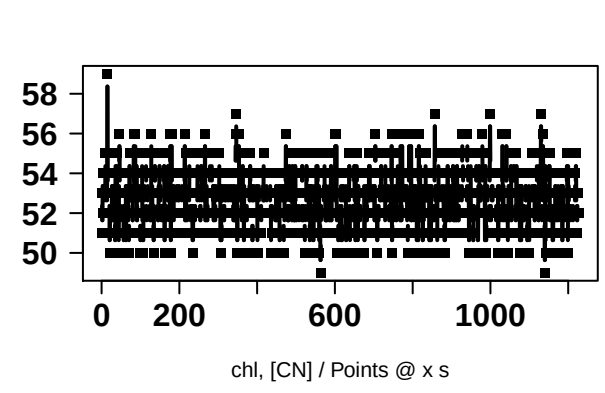

nb days: 0.2 freq: 9.4 min
140
130
120
110
100
90
0
5
10
15
20
25
30
35
beta, [CN] / Points @ x s

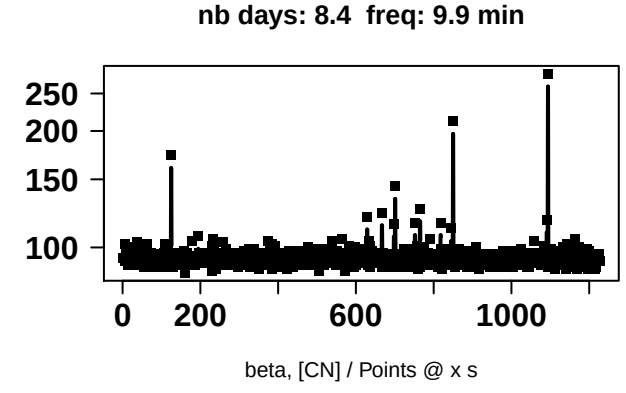

nb days: 0.2 freq: 53.3 min
2.100
2.095
2.090
2.085
1
2
3
4
5
6
c, [1/m] + 0.1 / Points @ x s

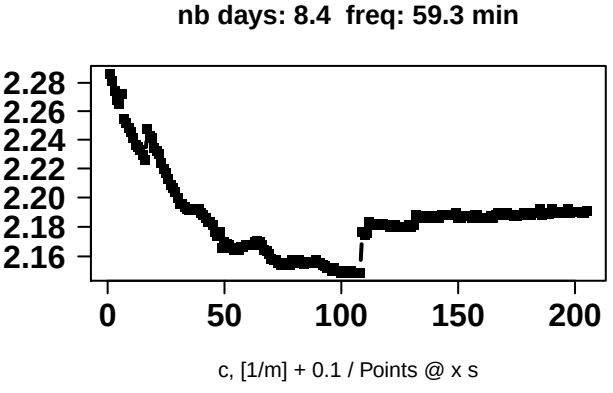

2014−12−13 19:25:08 2014−12−22 06:05:10
1030
1020
1010
1000
990
980
970
0
500
1000
1500
Pressure in

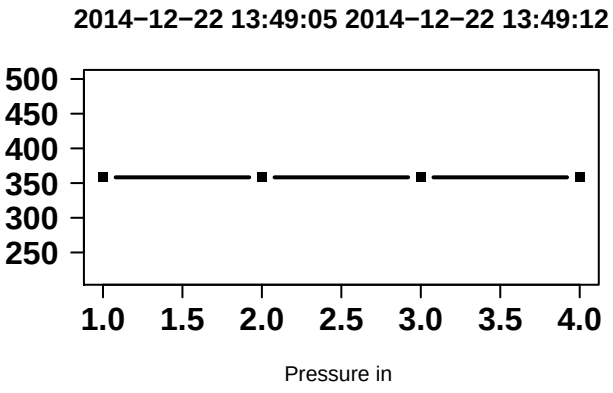

black 0.042 red 0.3
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
32.20
32.05
31.90
0
50
100
150
200

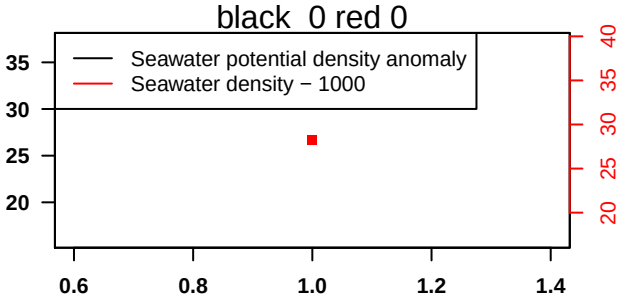

lovbio010b_082_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

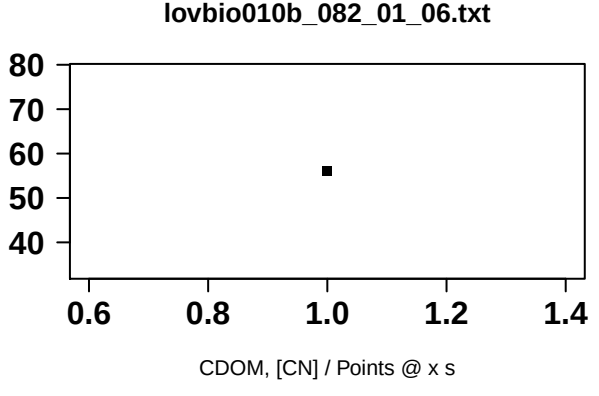

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

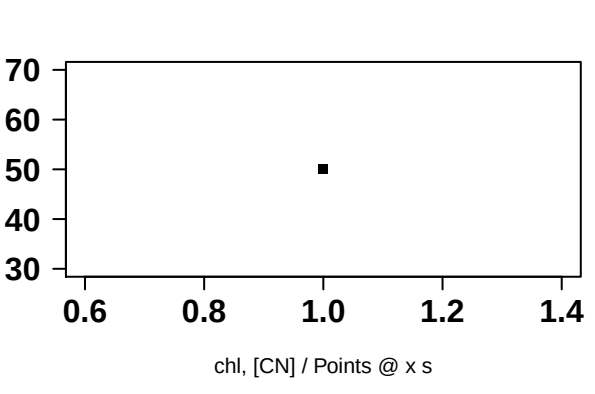

nb days: 8.4 freq: 9.9 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

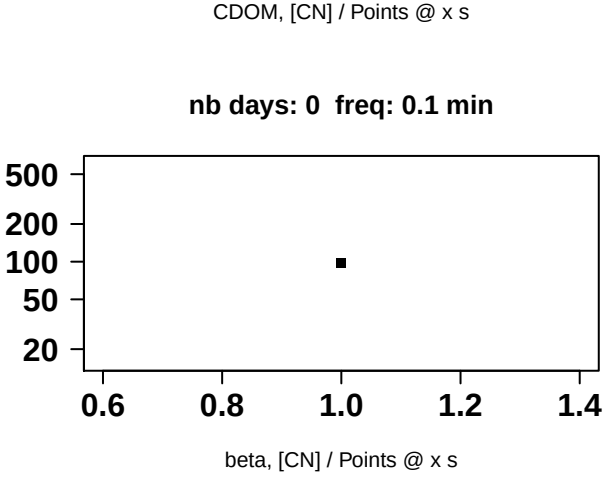

nb days: 8.4 freq: 59.3 min
2.28
2.26
2.24
2.22
2.20
2.18
2.16
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

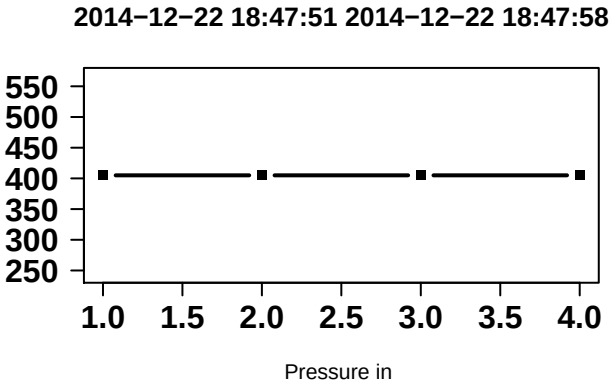

2014−12−22 13:49:05 2014−12−22 13:49:12
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

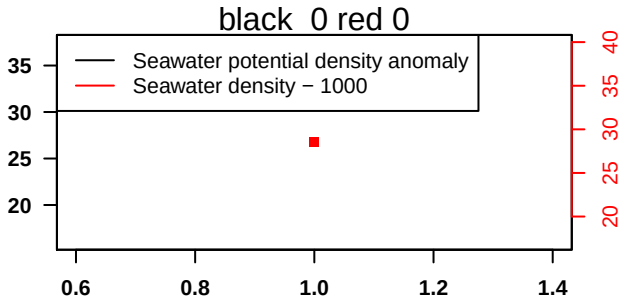

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

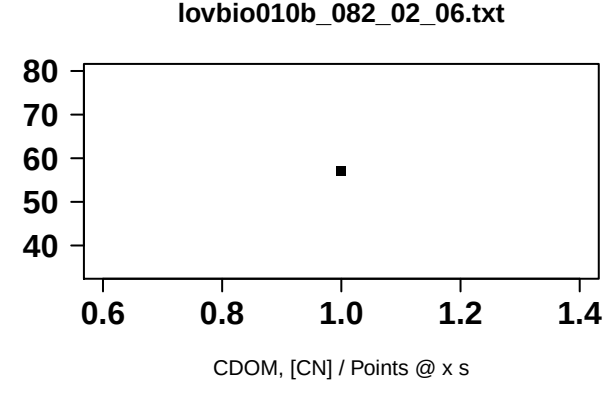

lovbio010b_082_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

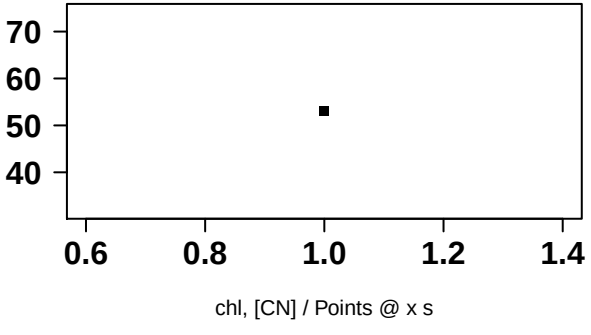

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

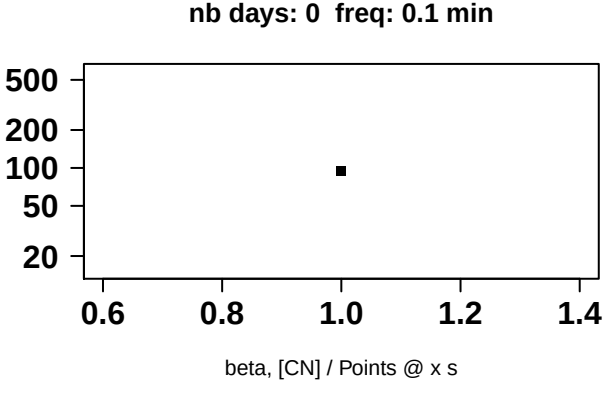

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

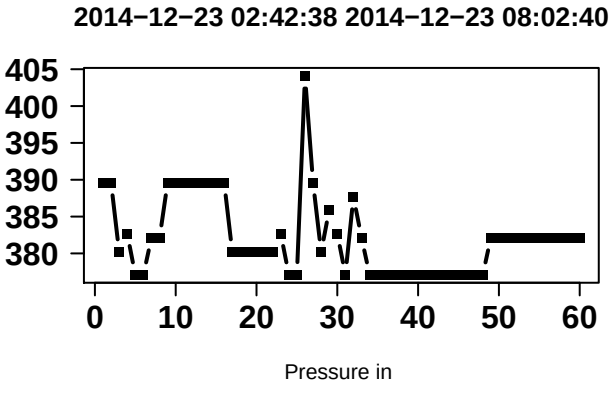

2014−12−22 18:47:51 2014−12−22 18:47:58
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

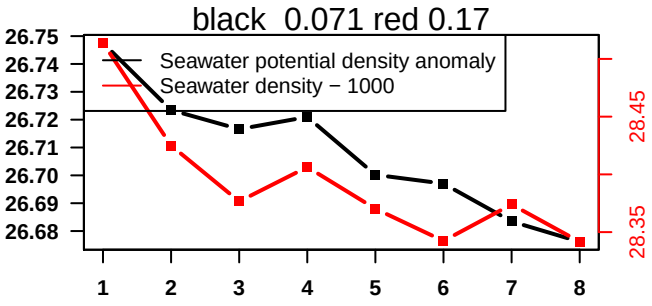

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

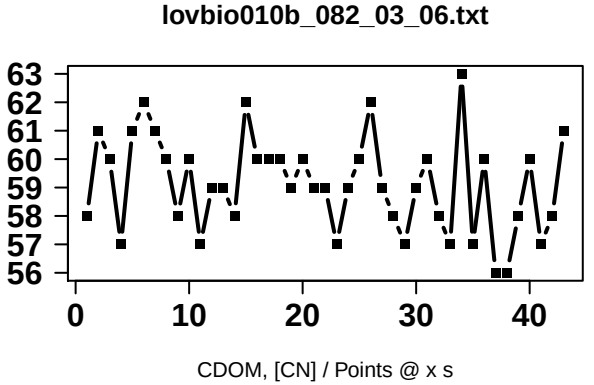

lovbio010b_082_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

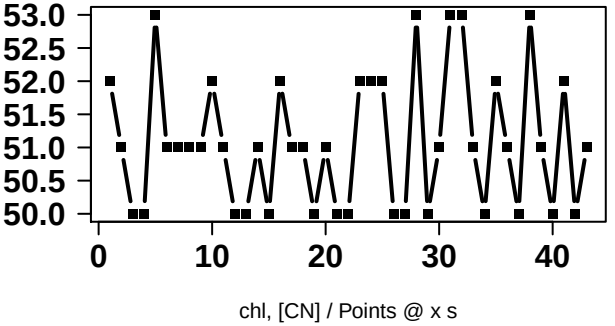

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

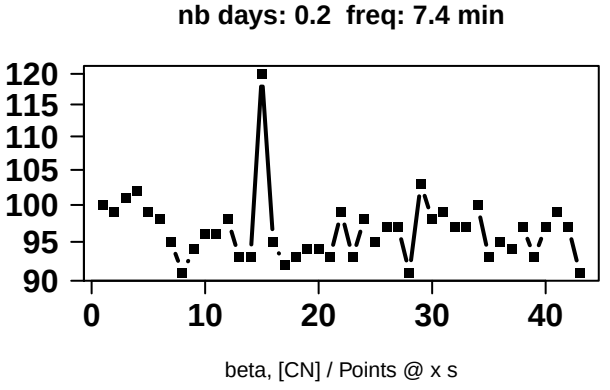

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

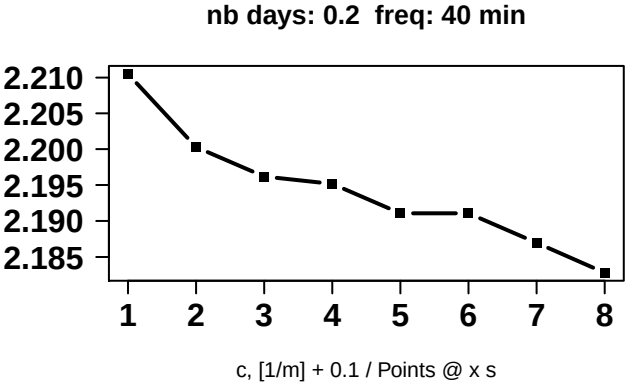

2014−12−23 02:42:38 2014−12−23 08:02:40
405
400
395
390
385
380
0
10
20
30
40
50
60
Pressure in

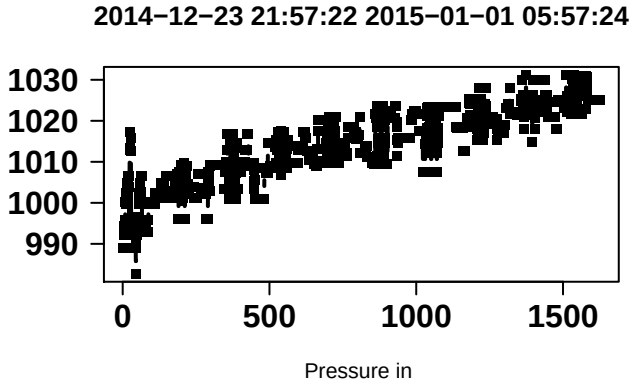

black 0.071 red 0.17
Seawater potential density anomaly
Seawater density − 1000
26.75
26.74
26.73
26.72
26.71
26.70
26.69
26.68
28.45
28.35
1
2
3
4
5
6
7
8

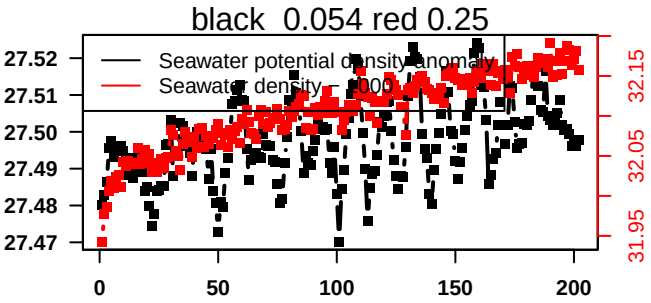

lovbio010b_082_03_06.txt
63
62
61
60
59
58
57
56
0
10
20
30
40
CDOM, [CN] / Points @ x s

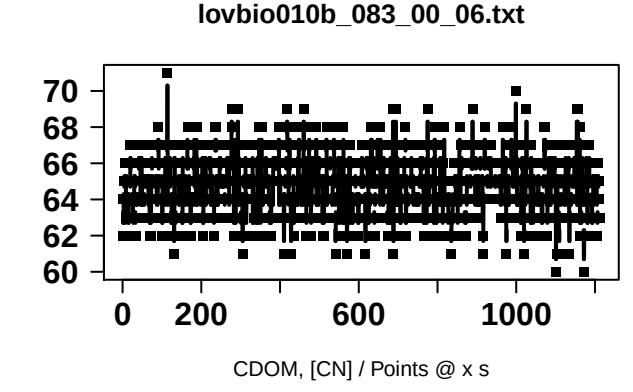

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
chl, [CN] / Points @ x s

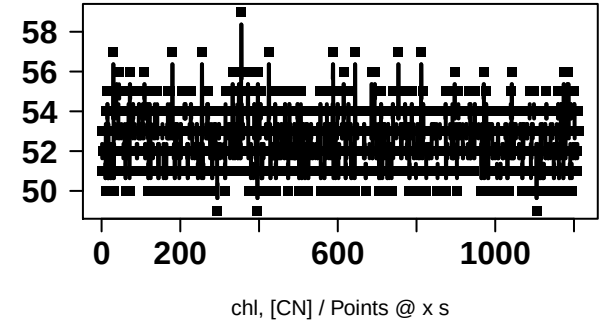

nb days: 0.2 freq: 7.4 min
120
115
110
105
100
95
90
0
10
20
30
40
beta, [CN] / Points @ x s

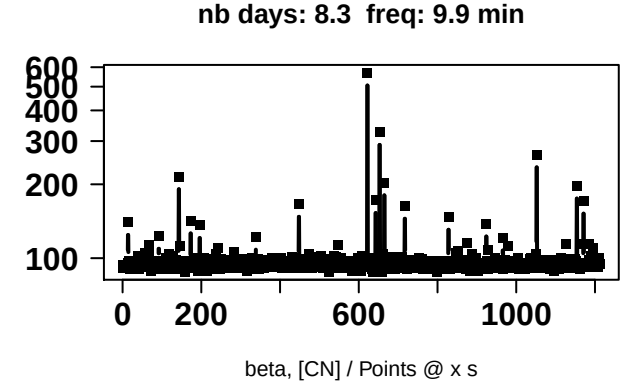

nb days: 0.2 freq: 40 min
2.210
2.205
2.200
2.195
2.190
2.185
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

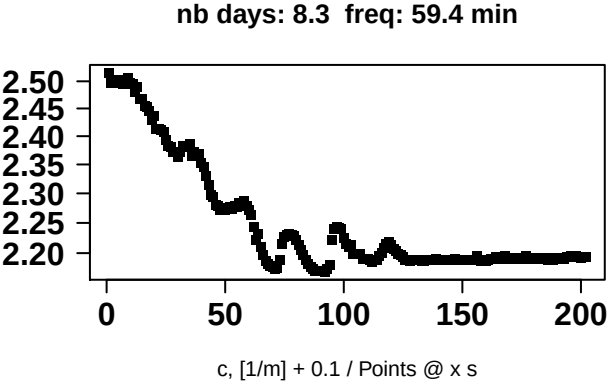

2014−12−23 21:57:22 2015−01−01 05:57:24
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

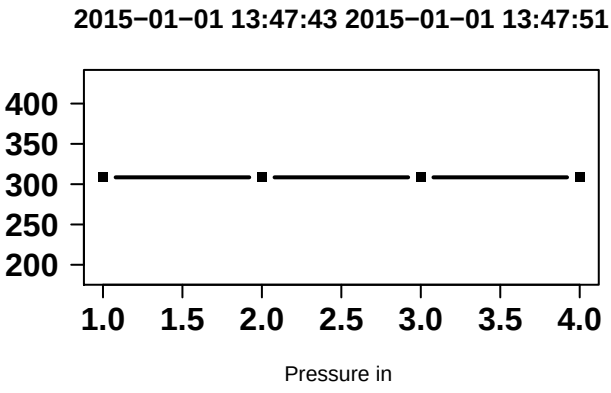

black 0.054 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
27.47
32.15
32.05
31.95
0
50
100
150
200

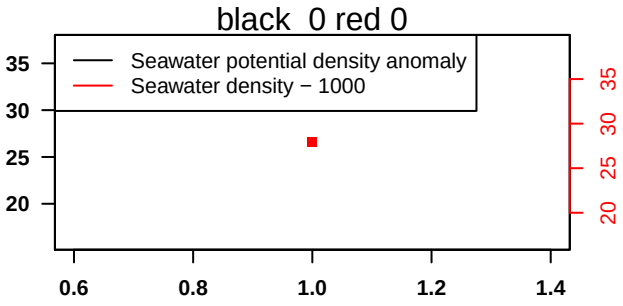

lovbio010b_083_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

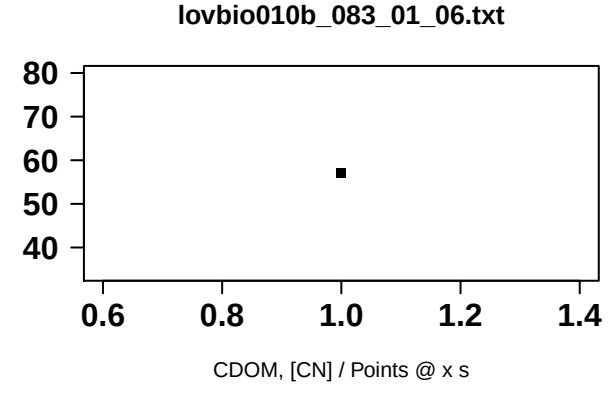

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

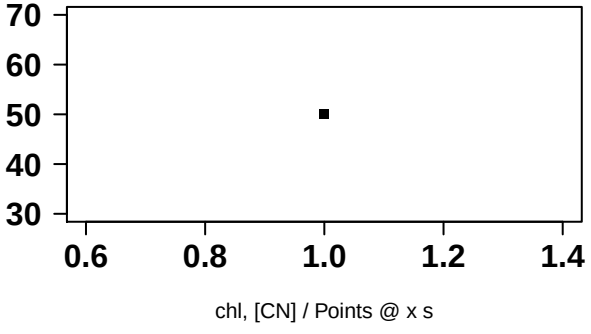

nb days: 8.3 freq: 9.9 min
600
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

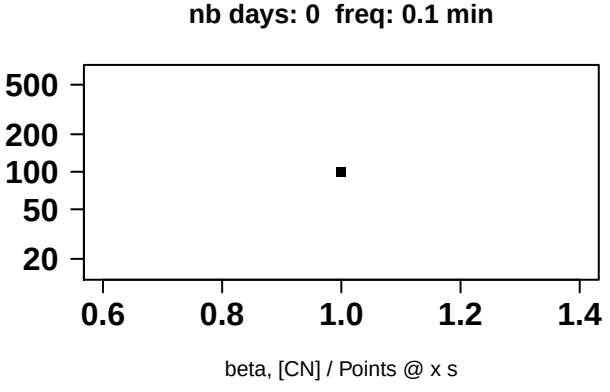

nb days: 8.3 freq: 59.4 min
2.50
2.45
2.40
2.35
2.30
2.25
2.20
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

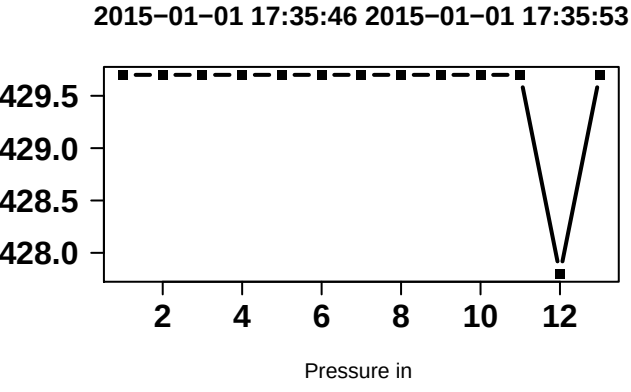

2015−01−01 13:47:43 2015−01−01 13:47:51
400
350
300
250
200
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

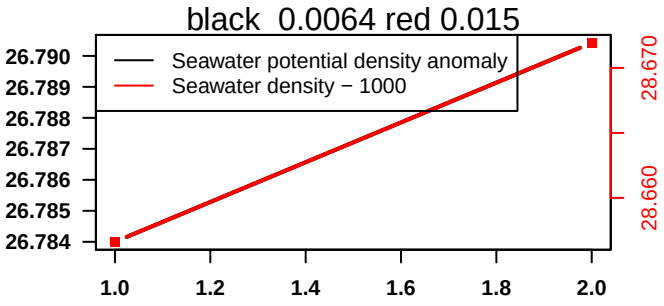

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4

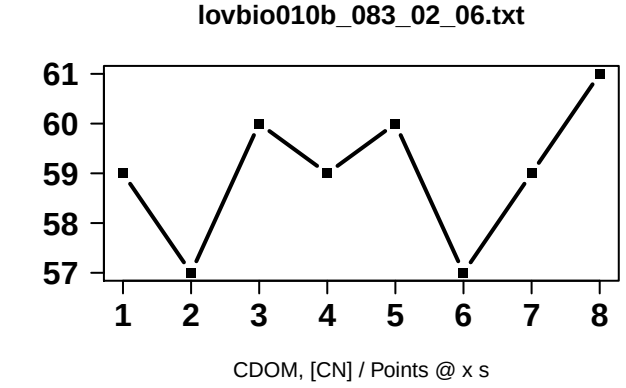

lovbio010b_083_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

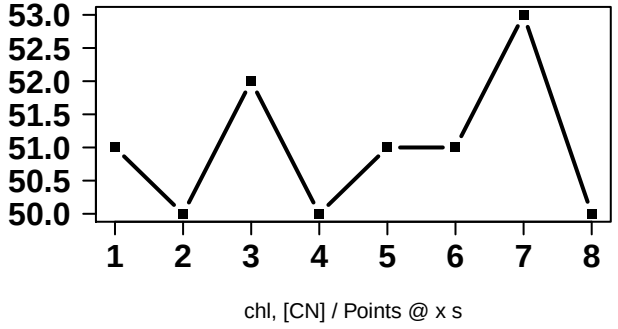

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

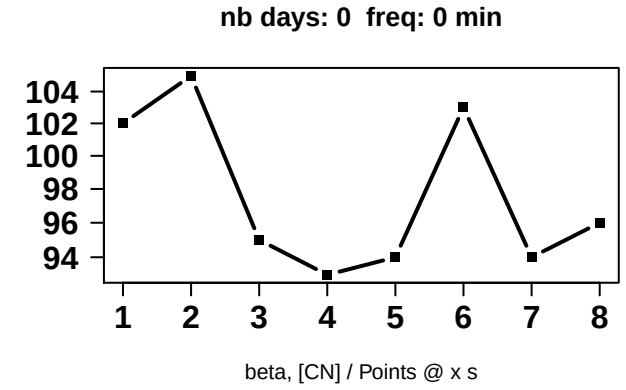

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

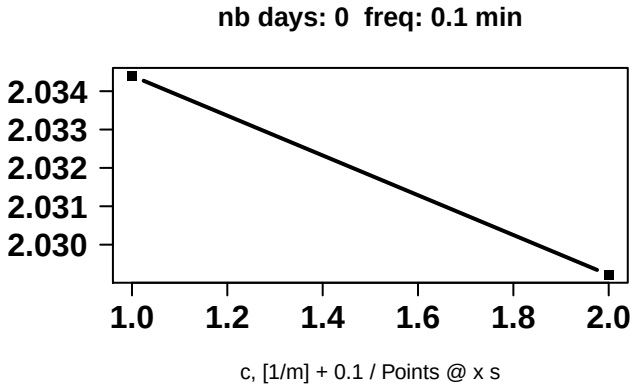

2015−01−01 17:35:46 2015−01−01 17:35:53
429.5
429.0
428.5
428.0
2
4
6
8
10
12
Pressure in

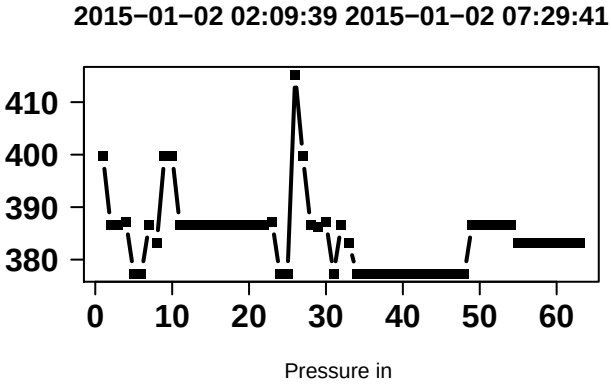

black 0.0064 red 0.015
Seawater potential density anomaly
Seawater density − 1000
26.790
26.789
26.788
26.787
26.786
26.785
26.784
28.670
28.660
1.0
1.2
1.4
1.6
1.8
2.0

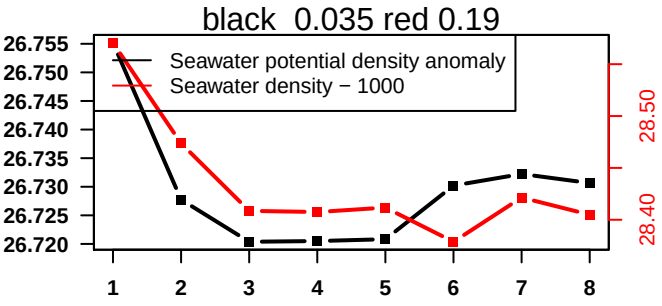

lovbio010b_083_02_06.txt
61
60
59
58
57
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

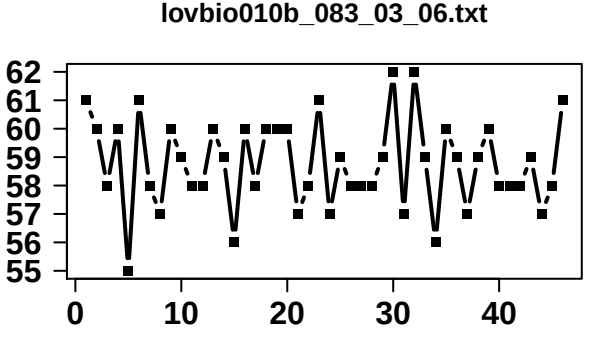

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

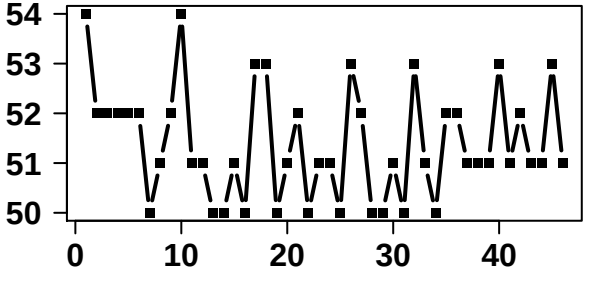

nb days: 0 freq: 0 min
104
102
100
98
96
94
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

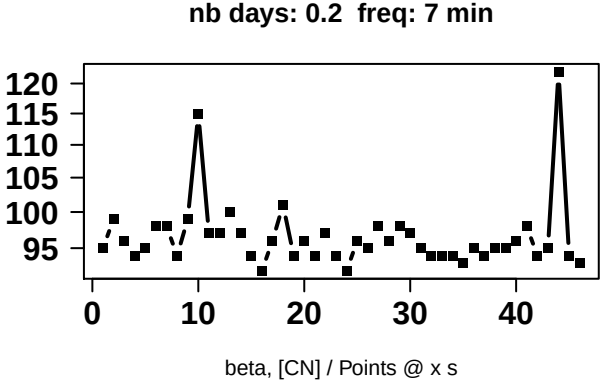

nb days: 0 freq: 0.1 min
2.034
2.033
2.032
2.031
2.030
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

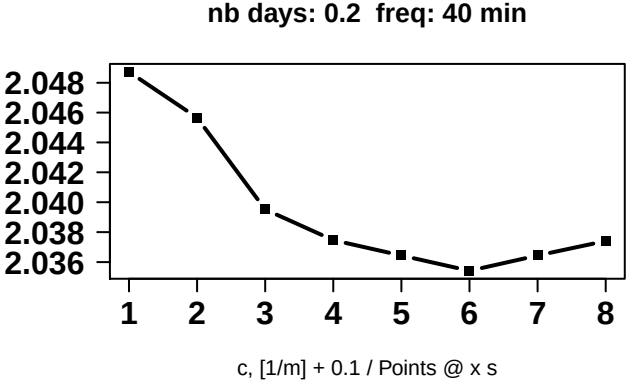

2015−01−02 02:09:39 2015−01−02 07:29:41
410
400
390
380
0
10
20
30
40
50
60
Pressure in

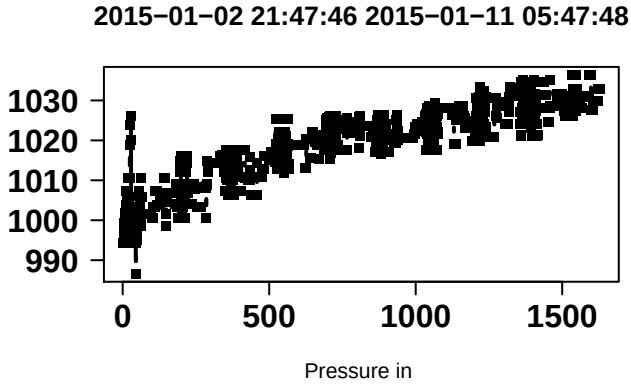

black 0.035 red 0.19
Seawater potential density anomaly
Seawater density − 1000
26.755
26.750
26.745
26.740
26.735
26.730
26.725
26.720
28.50
28.40
1
2
3
4
5
6
7
8

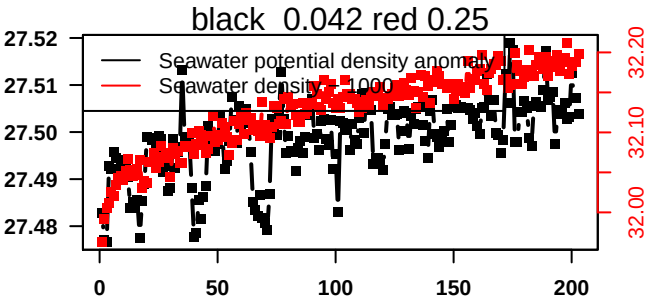

lovbio010b_083_03_06.txt
62
61
60
59
58
57
56
55
0
10
20
30
40
CDOM, [CN] / Points @ x s

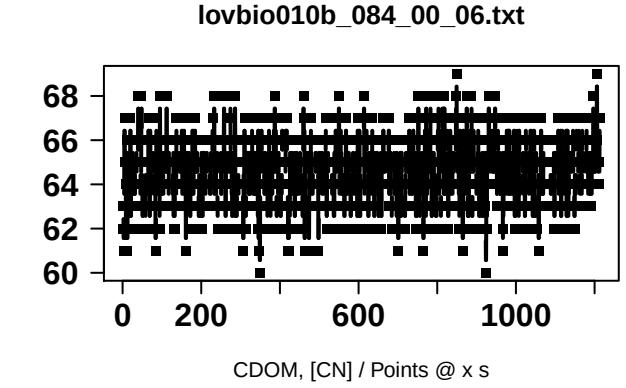

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

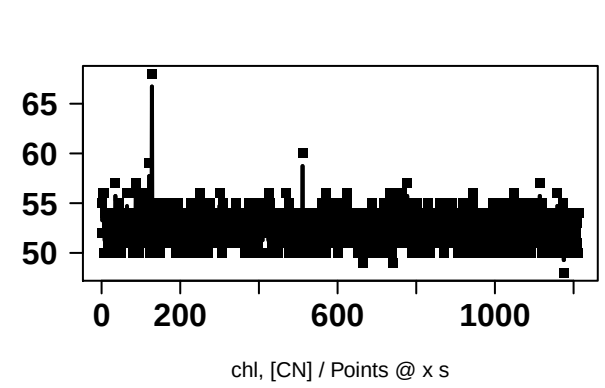

nb days: 0.2 freq: 7 min
120
115
110
105
100
95
0
10
20
30
40
beta, [CN] / Points @ x s

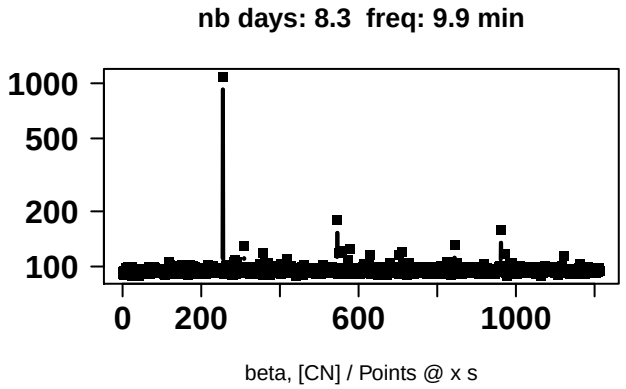

nb days: 0.2 freq: 40 min
2.048
2.046
2.044
2.042
2.040
2.038
2.036
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

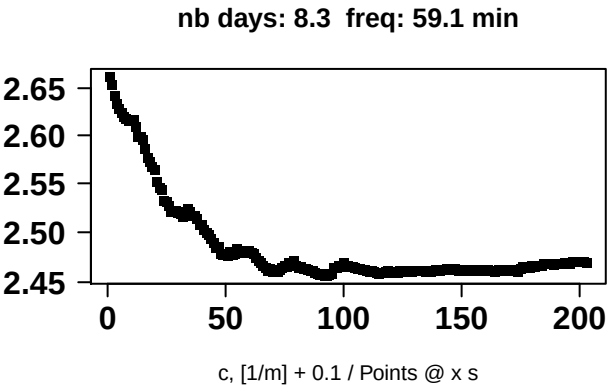

2015−01−02 21:47:46 2015−01−11 05:47:48
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

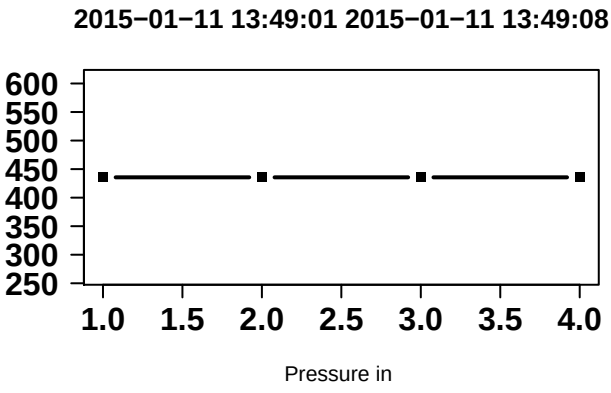

black 0.042 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
32.20
32.10
32.00
0
50
100
150
200

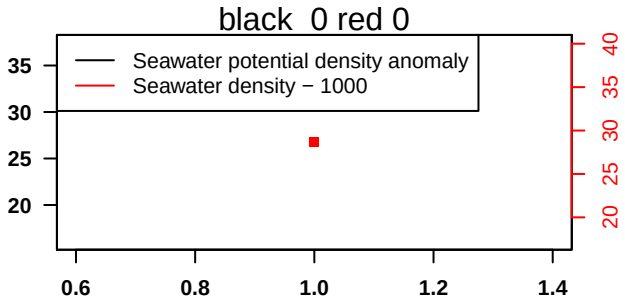

lovbio010b_084_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

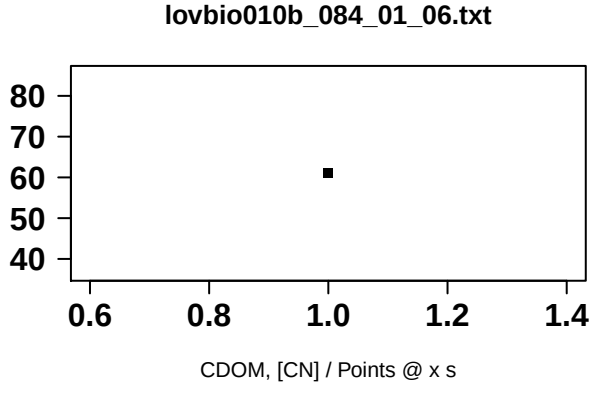

65
60
55
50
0
200
600
1000
chl, [CN] / Points @ x s

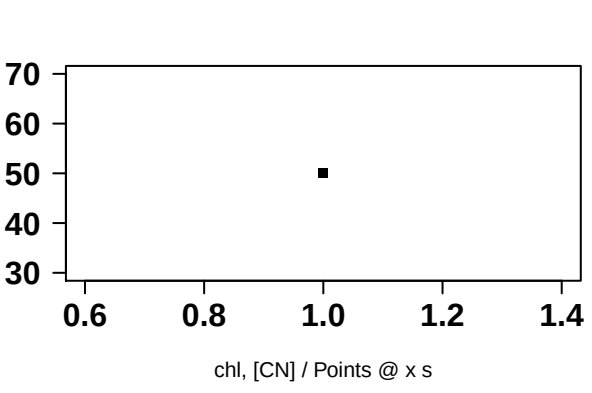

nb days: 8.3 freq: 9.9 min
1000
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

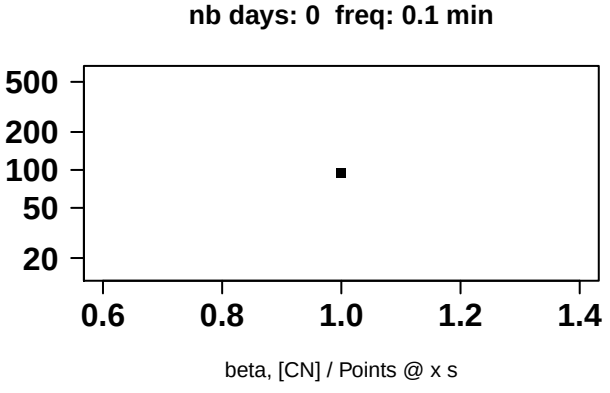

nb days: 8.3 freq: 59.1 min
2.65
2.60
2.55
2.50
2.45
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

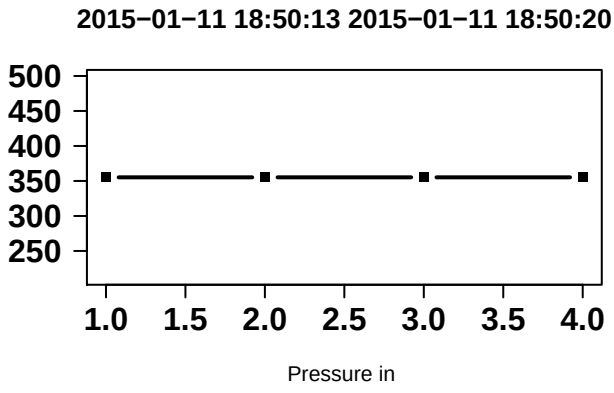

2015−01−11 13:49:01 2015−01−11 13:49:08
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

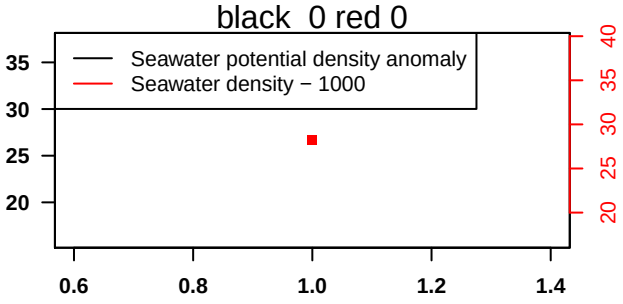

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

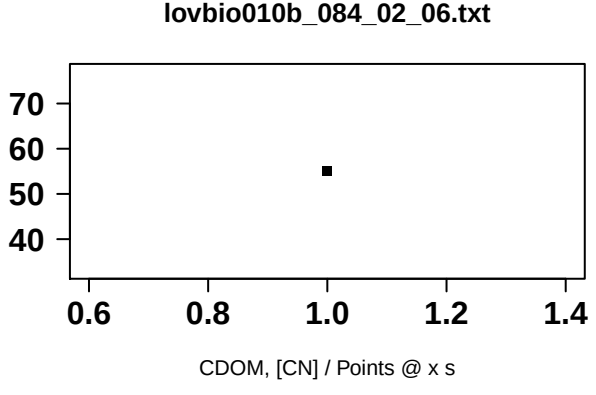

lovbio010b_084_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

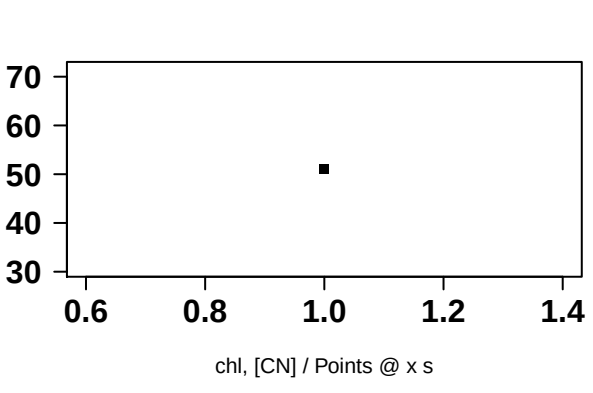

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

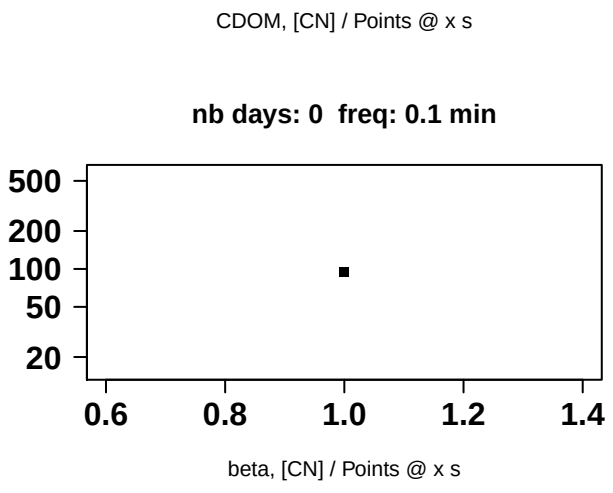

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

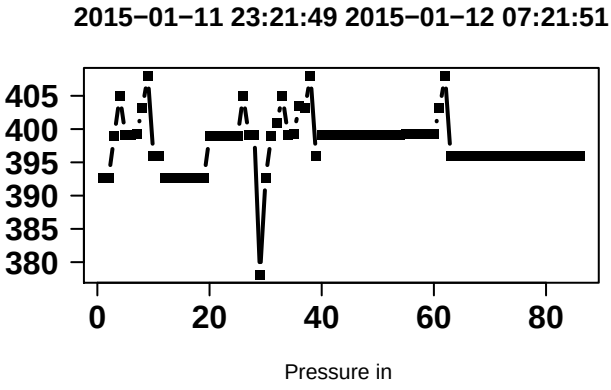

2015−01−11 18:50:13 2015−01−11 18:50:20
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

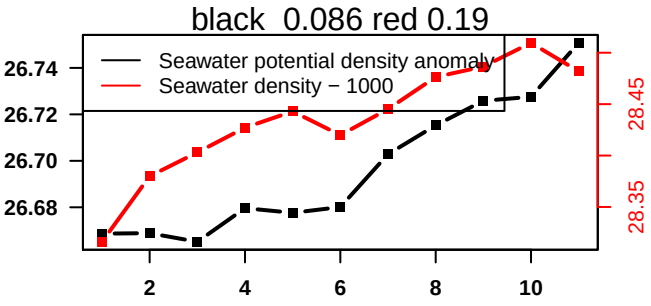

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

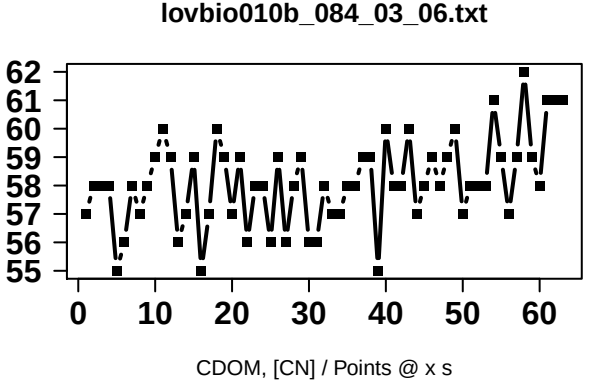

lovbio010b_084_02_06.txt
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

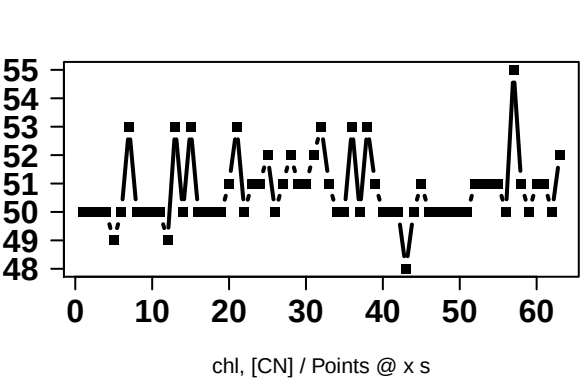

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

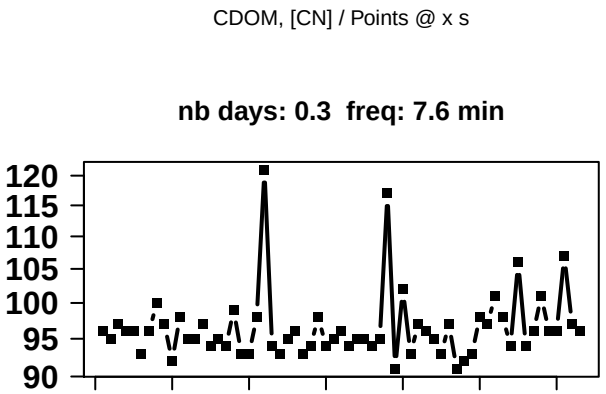

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

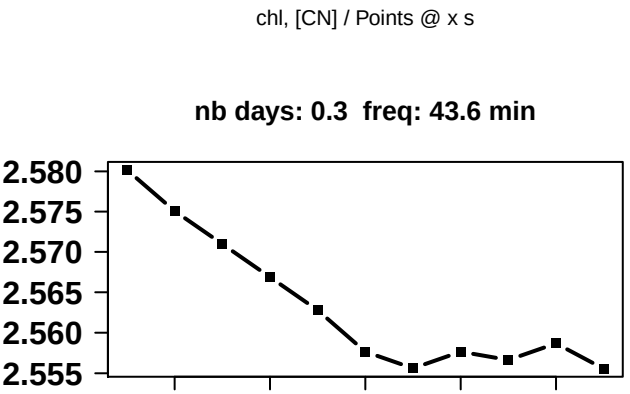

2015−01−11 23:21:49 2015−01−12 07:21:51
405
400
395
390
385
380
0
20
40
60
80
Pressure in

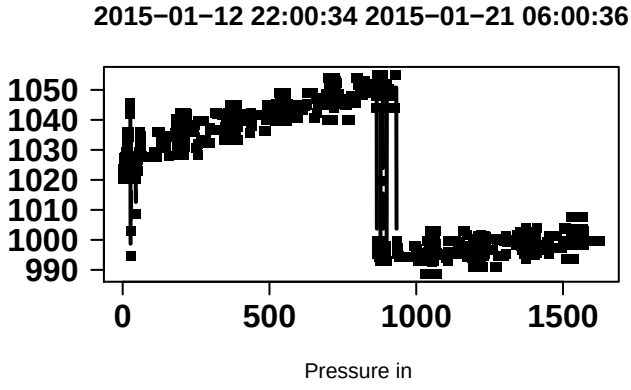

black 0.086 red 0.19
Seawater potential density anomaly
Seawater density − 1000
26.74
26.72
26.70
26.68
28.45
28.35
2
4
6
8
10

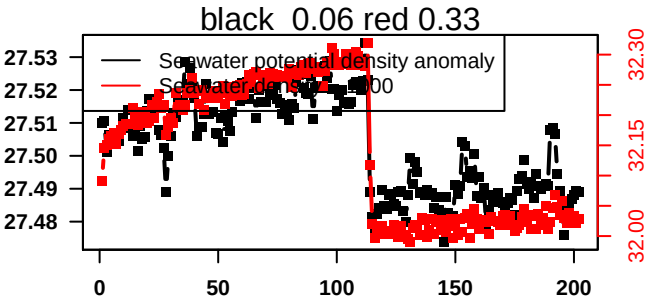

lovbio010b_084_03_06.txt
62
61
60
59
58
57
56
55
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

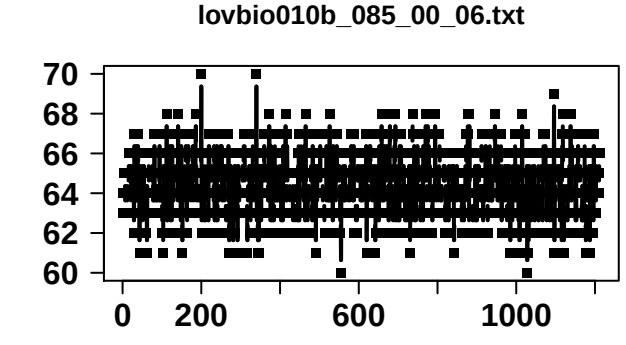

55
54
53
52
51
50
49
48
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

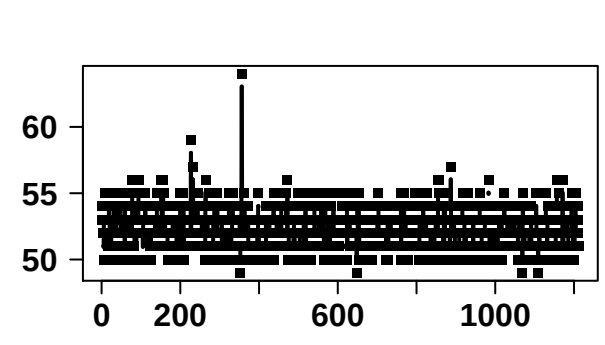

nb days: 0.3 freq: 7.6 min
120
115
110
105
100
95
90
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

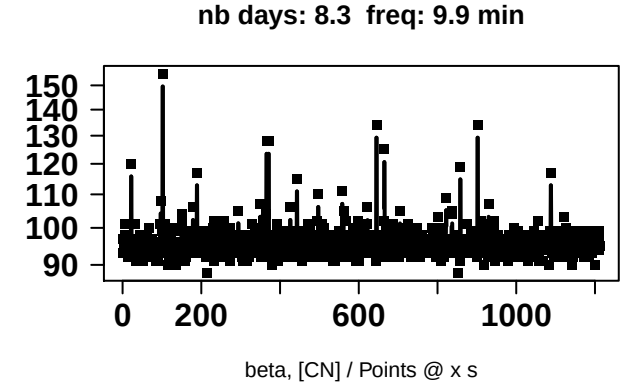

nb days: 0.3 freq: 43.6 min
2.580
2.575
2.570
2.565
2.560
2.555
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

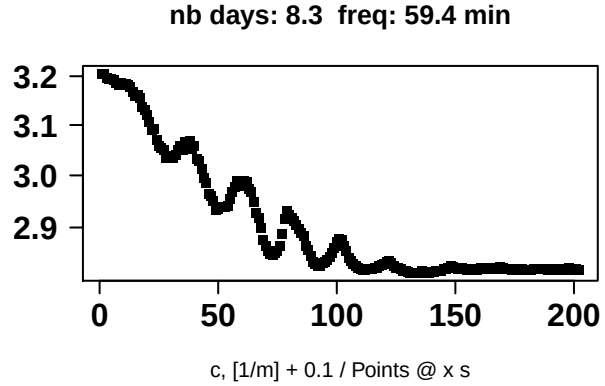

2015−01−12 22:00:34 2015−01−21 06:00:36
1050
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

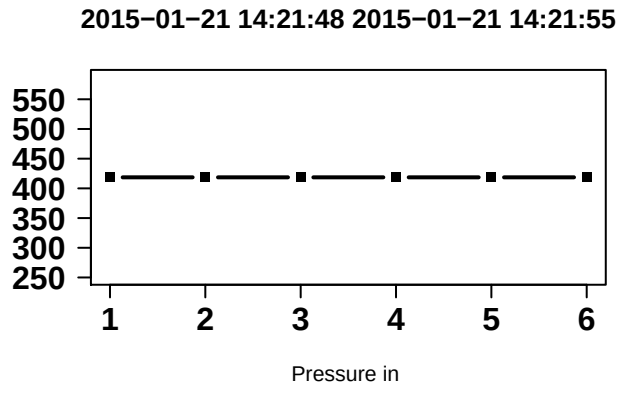

black 0.06 red 0.33
Seawater potential density anomaly
27.53
27.52
27.51
27.50
27.49
27.48
32.30
32.15
32.00
0
50
100
150
200

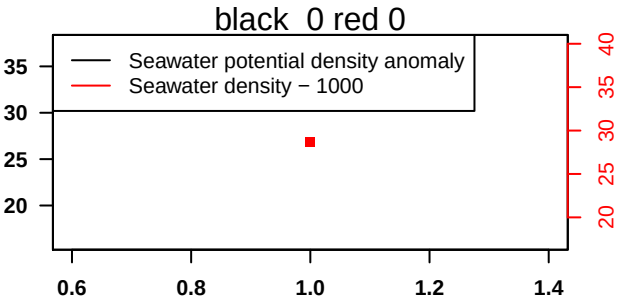

lovbio010b_085_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

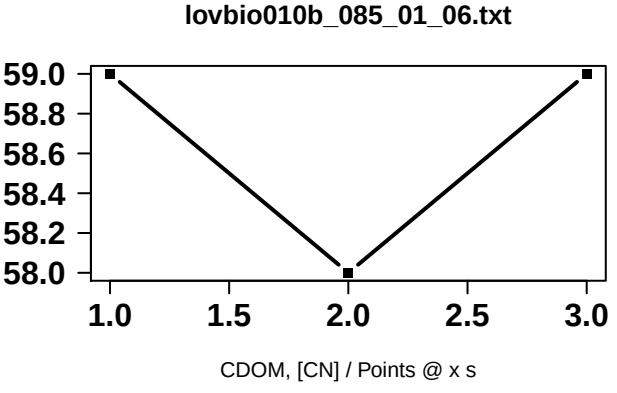

60
55
50
0
200
600
1000
chl, [CN] / Points @ x s

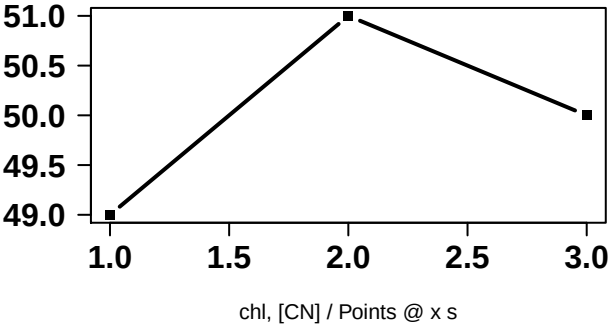

nb days: 8.3 freq: 9.9 min
150
140
130
120
110
100
90
0
200
600
1000
beta, [CN] / Points @ x s

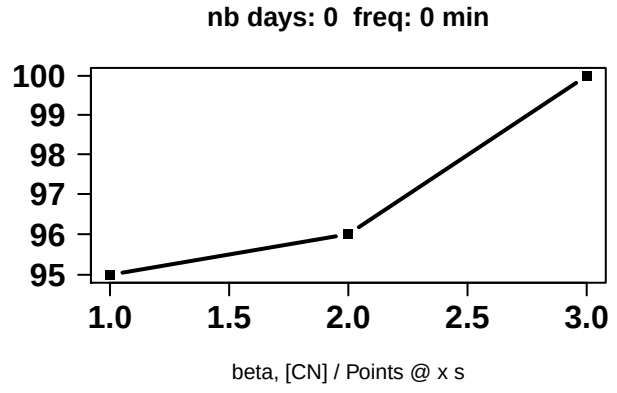

nb days: 8.3 freq: 59.4 min
3.2
3.1
3.0
2.9
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

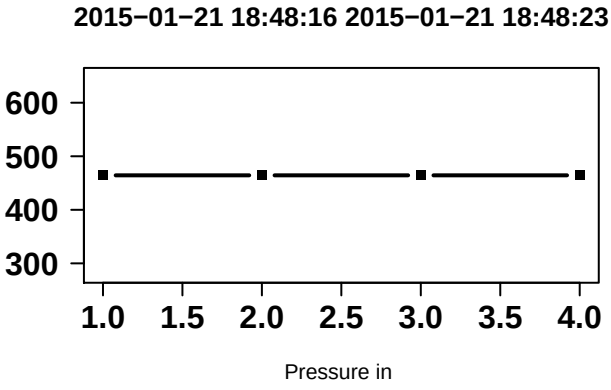

2015−01−21 14:21:48 2015−01−21 14:21:55
550
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

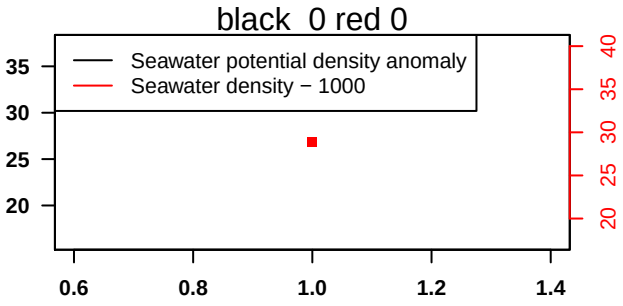

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

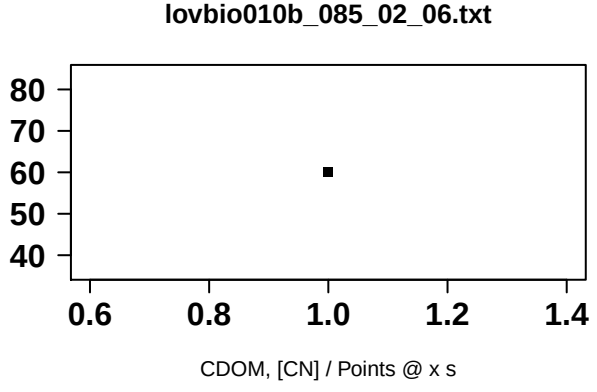

lovbio010b_085_01_06.txt
59.0
58.8
58.6
58.4
58.2
58.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

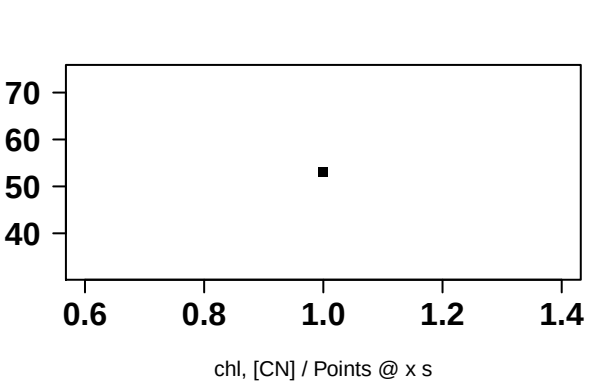

51.0
50.5
50.0
49.5
49.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

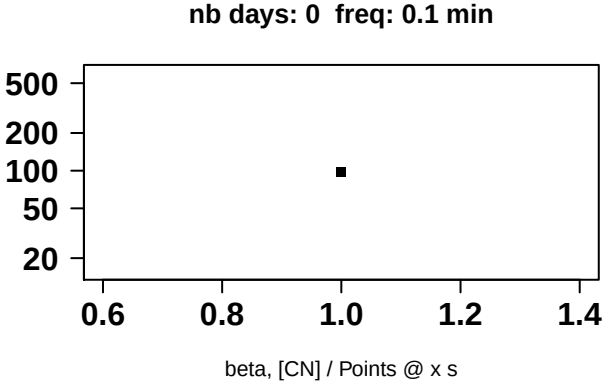

nb days: 0 freq: 0 min
100
99
98
97
96
95
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

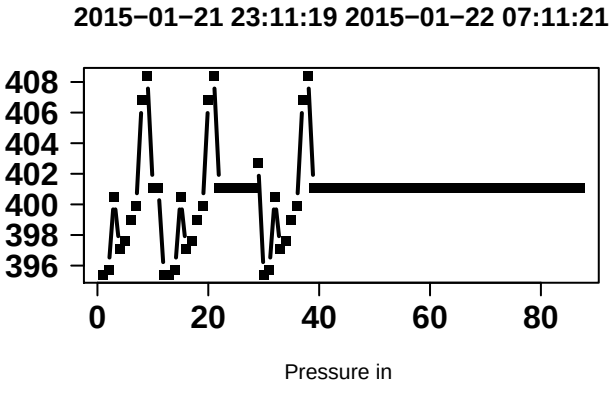

2015−01−21 18:48:16 2015−01−21 18:48:23
600
500
400
300
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

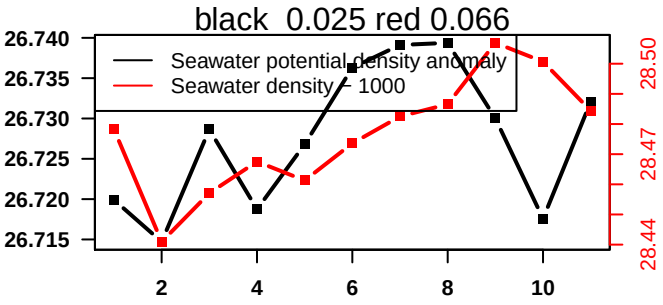

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

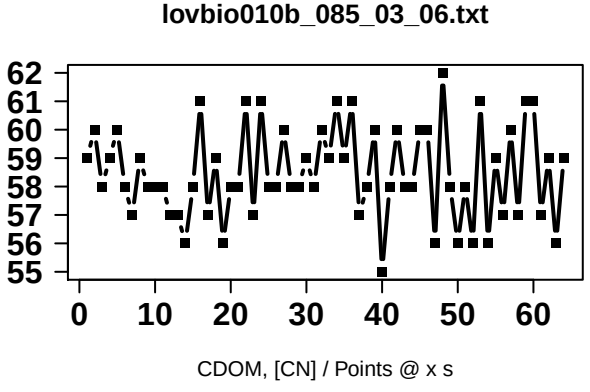

lovbio010b_085_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

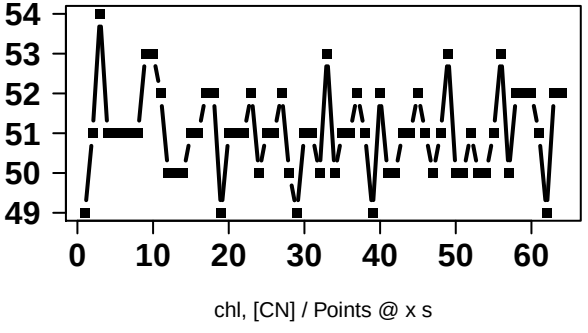

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

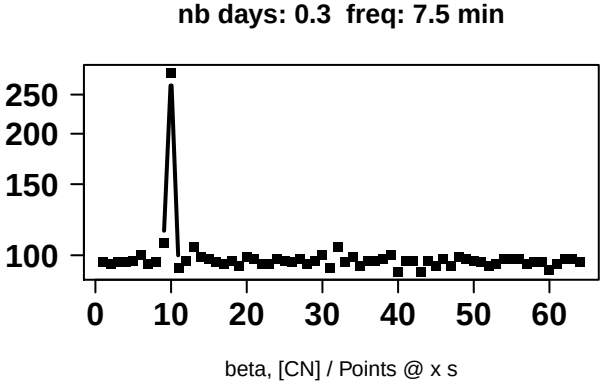

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

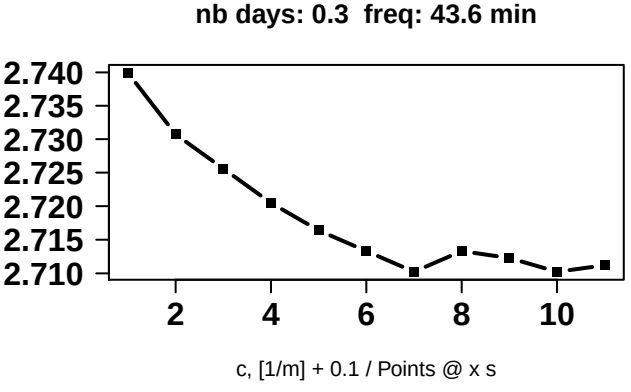

2015−01−21 23:11:19 2015−01−22 07:11:21
408
406
404
402
400
398
396
0
20
40
60
80
Pressure in

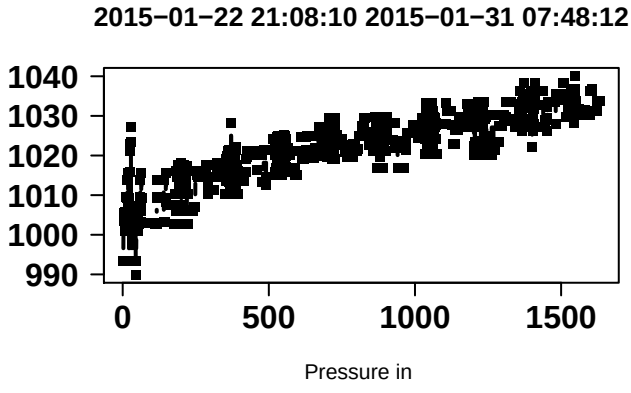

black 0.025 red 0.066
Seawater potential density anomaly
Seawater density − 1000
26.740
26.735
26.730
26.725
26.720
26.715
28.50
28.47
28.44
2
4
6
8
10

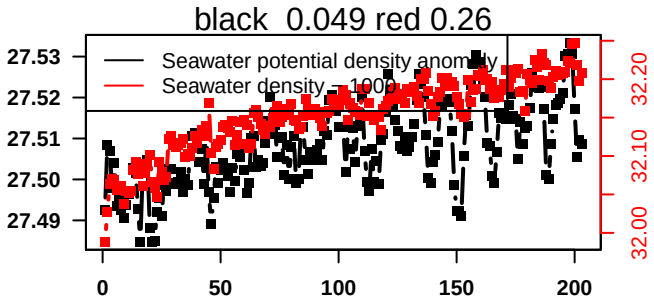

lovbio010b_085_03_06.txt
62
61
60
59
58
57
56
55
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

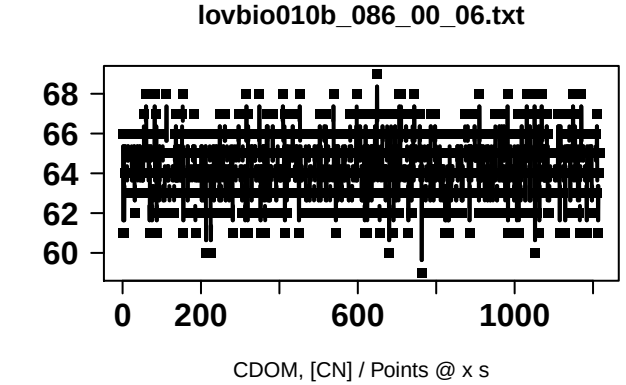

54
53
52
51
50
49
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

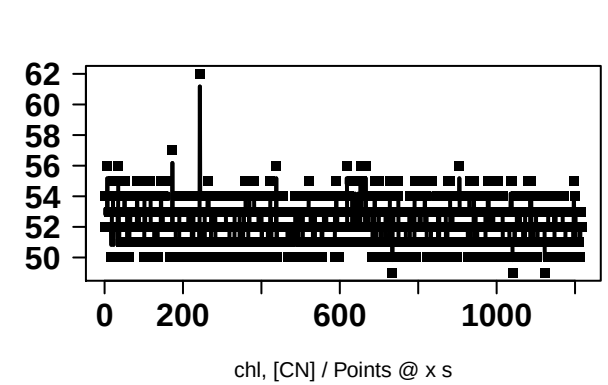

nb days: 0.3 freq: 7.5 min
250
200
150
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

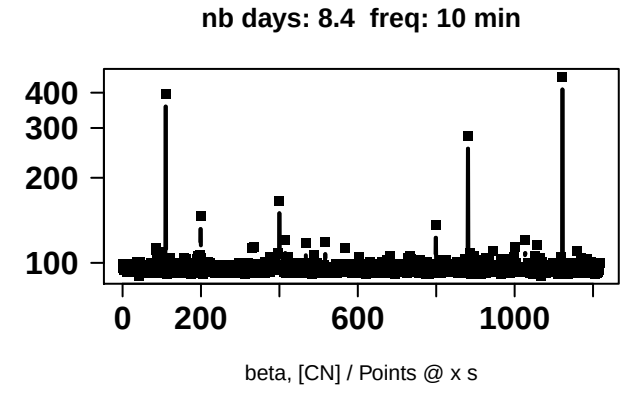

nb days: 0.3 freq: 43.6 min
2.740
2.735
2.730
2.725
2.720
2.715
2.710
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

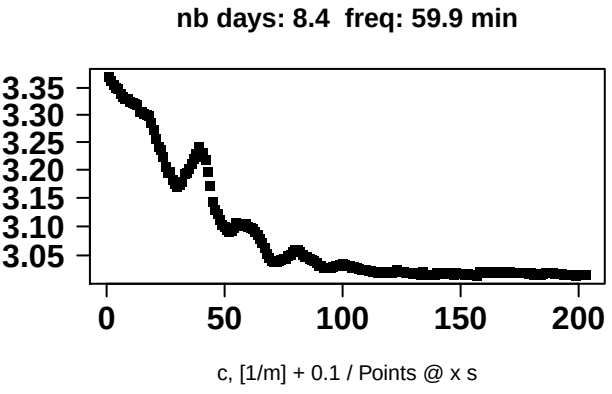

2015−01−22 21:08:10 2015−01−31 07:48:12
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

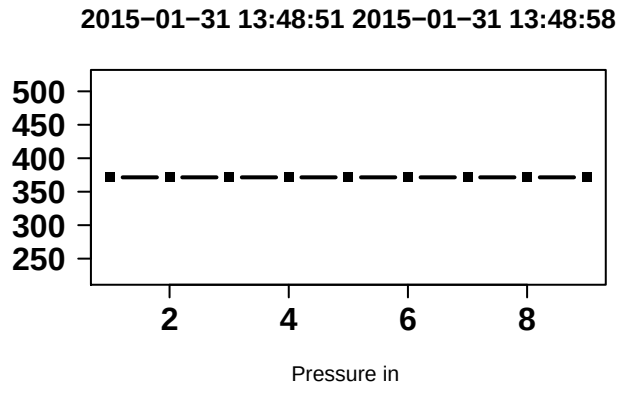

black 0.049 red 0.26
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
32.20
32.10
32.00
0
50
100
150
200

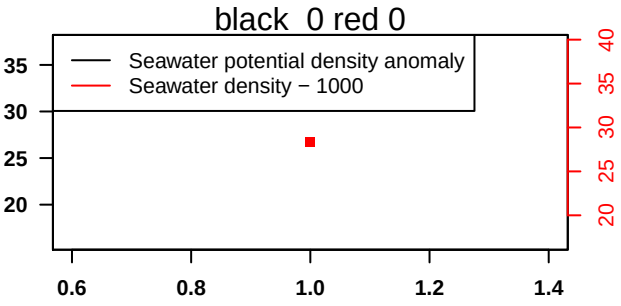

lovbio010b_086_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

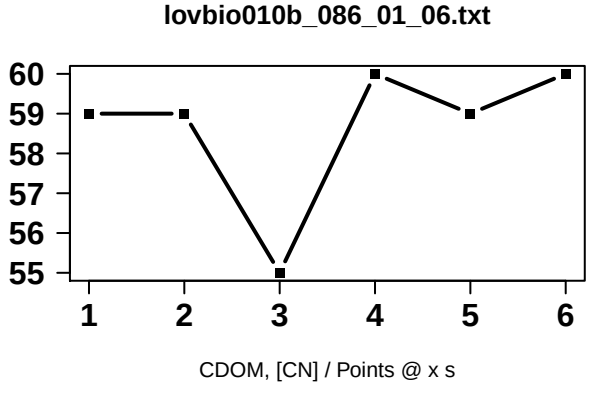

62
60
58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

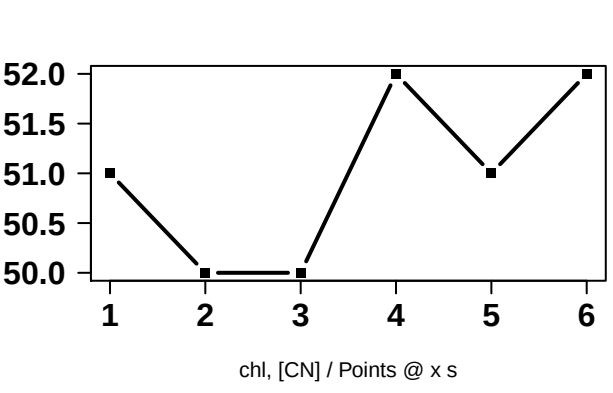

nb days: 8.4 freq: 10 min
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

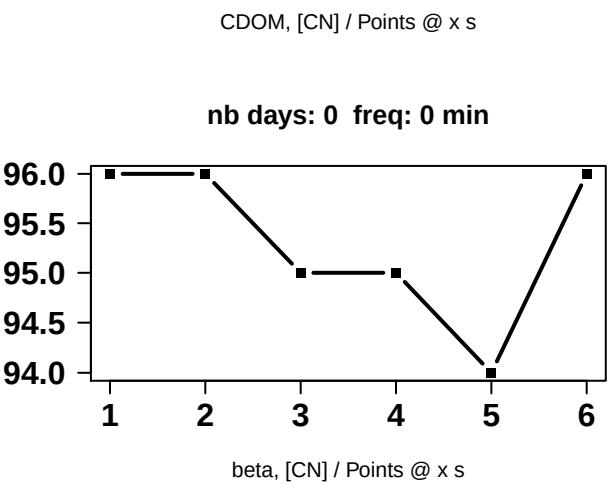

nb days: 8.4 freq: 59.9 min
3.35
3.30
3.25
3.20
3.15
3.10
3.05
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

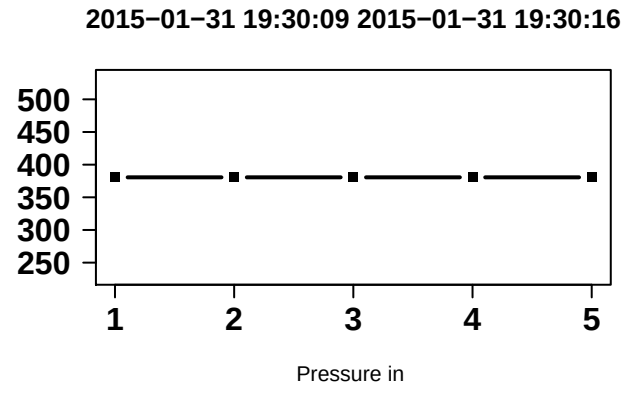

2015−01−31 13:48:51 2015−01−31 13:48:58
500
450
400
350
300
250
2
4
6
8
Pressure in

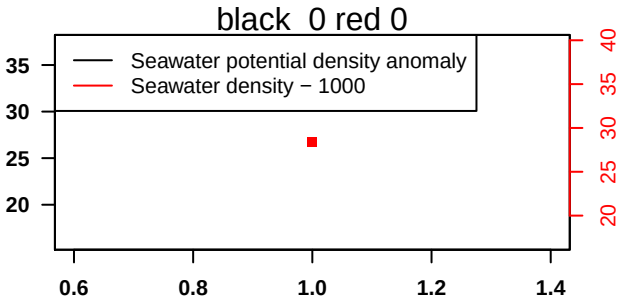

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

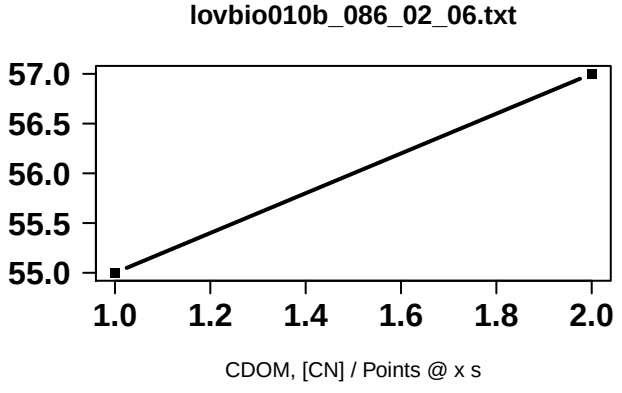

lovbio010b_086_01_06.txt
60
59
58
57
56
55
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

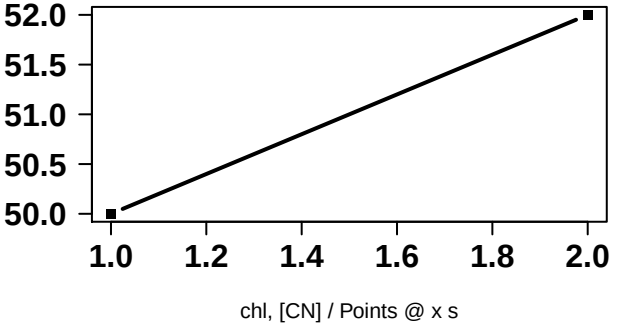

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

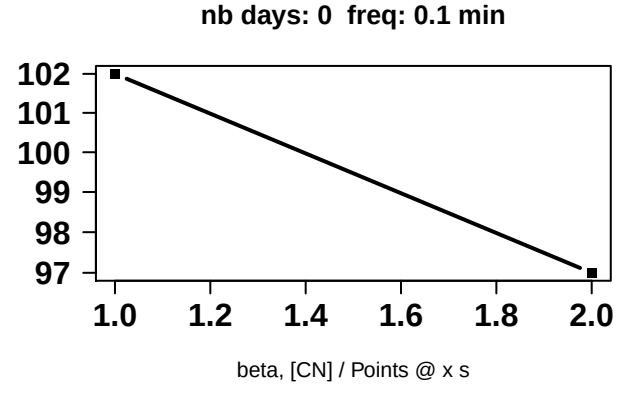

nb days: 0 freq: 0 min
96.0
95.5
95.0
94.5
94.0
1
2
3
4
5
6
beta, [CN] / Points @ x s

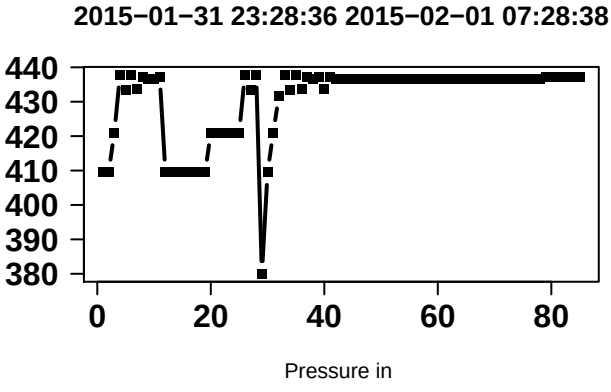

2015−01−31 19:30:09 2015−01−31 19:30:16
500
450
400
350
300
250
1
2
3
4
5
Pressure in

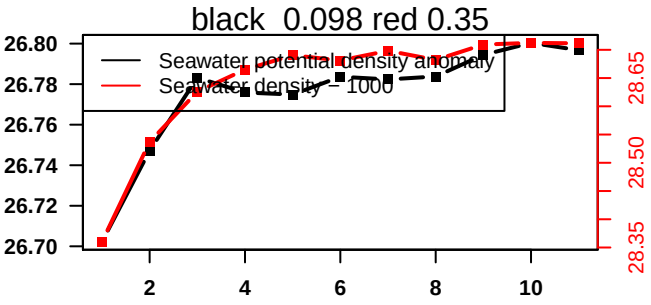

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

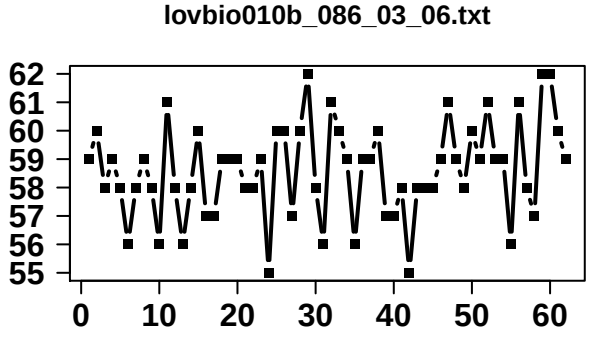

lovbio010b_086_02_06.txt
57.0
56.5
56.0
55.5
55.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

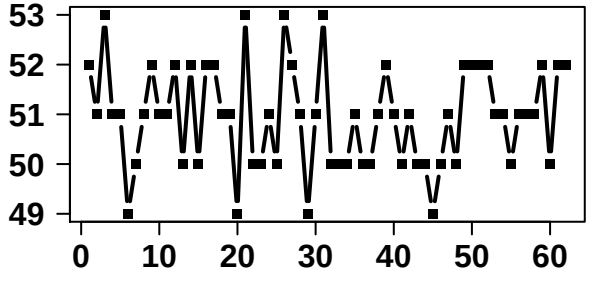

52.0
51.5
51.0
50.5
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

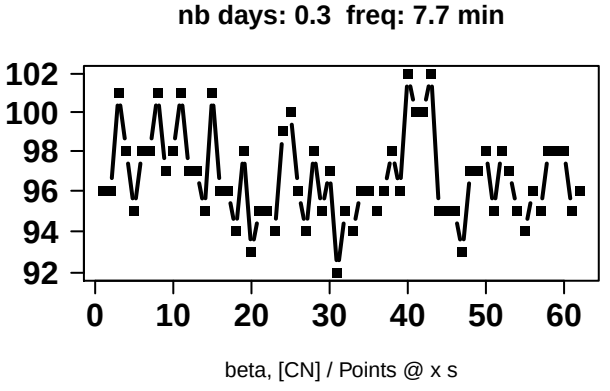

nb days: 0 freq: 0.1 min
102
101
100
99
98
97
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

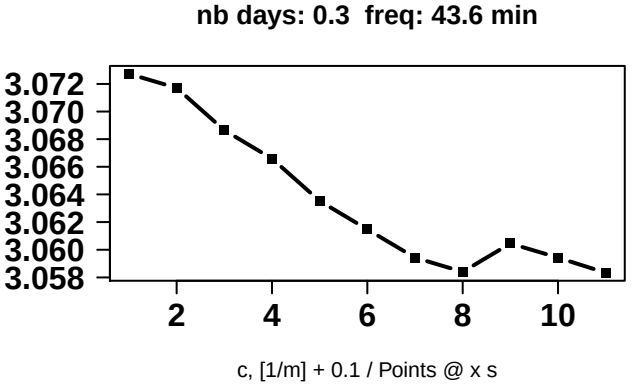

2015−01−31 23:28:36 2015−02−01 07:28:38
440
430
420
410
400
390
380
0
20
40
60
80
Pressure in

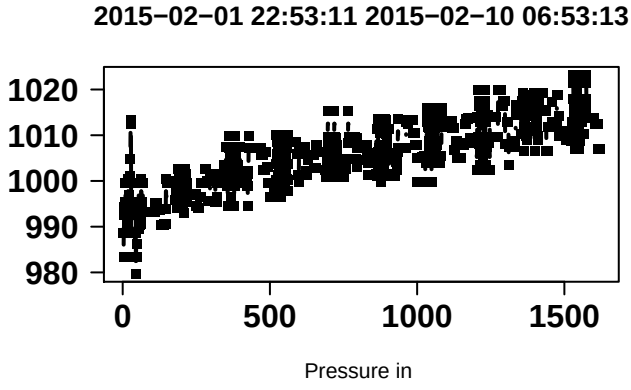

black 0.098 red 0.35
Seawater potential density anomaly
Seawater density − 1000
26.80
26.78
26.76
26.74
26.72
26.70
28.65
28.50
28.35
2
4
6
8
10

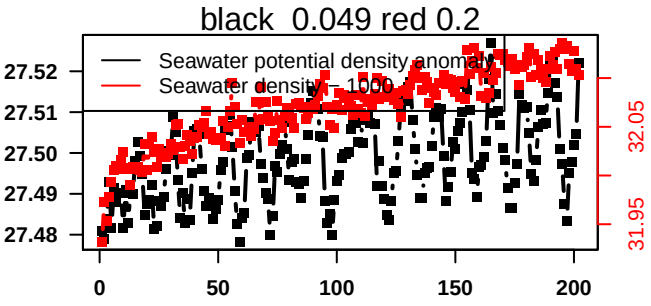

lovbio010b_086_03_06.txt
62
61
60
59
58
57
56
55
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

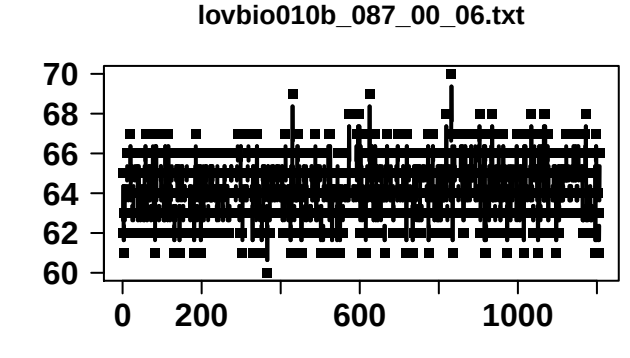

53
52
51
50
49
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

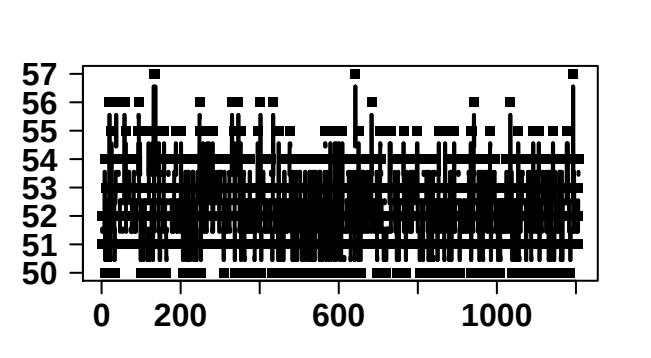

nb days: 0.3 freq: 7.7 min
102
100
98
96
94
92
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

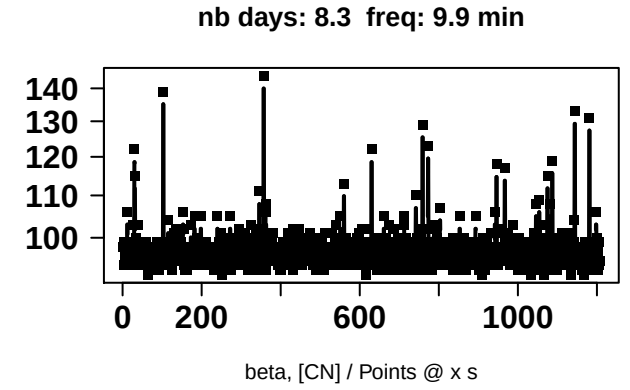

nb days: 0.3 freq: 43.6 min
3.072
3.070
3.068
3.066
3.064
3.062
3.060
3.058
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

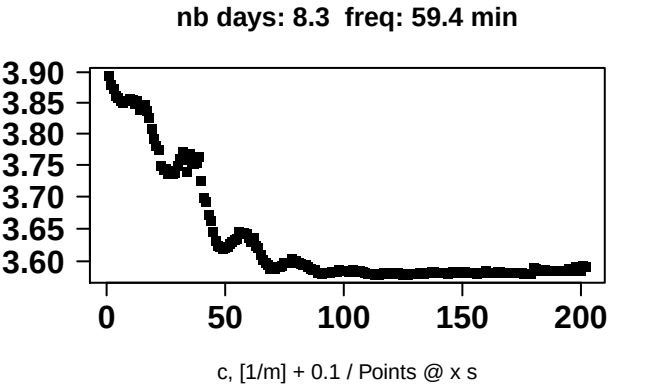

2015−02−01 22:53:11 2015−02−10 06:53:13
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

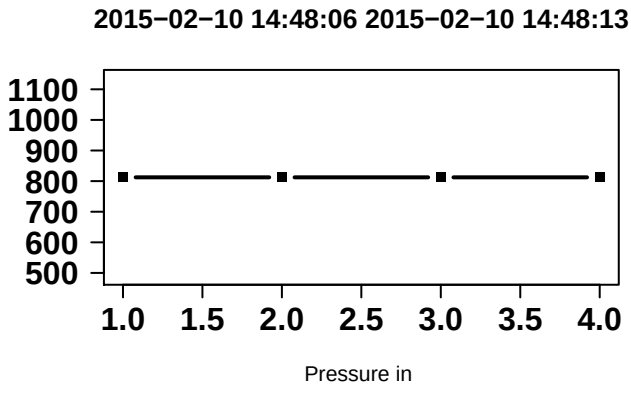

black 0.049 red 0.2
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
32.05
31.95
0
50
100
150
200

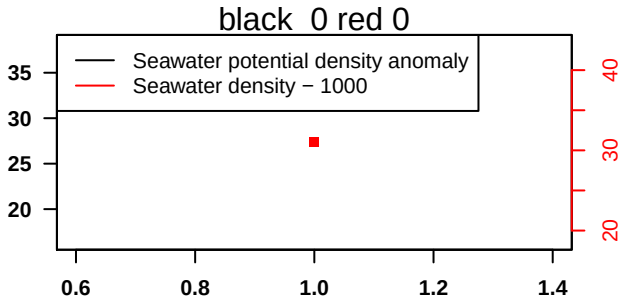

lovbio010b_087_00_06.txt
70
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

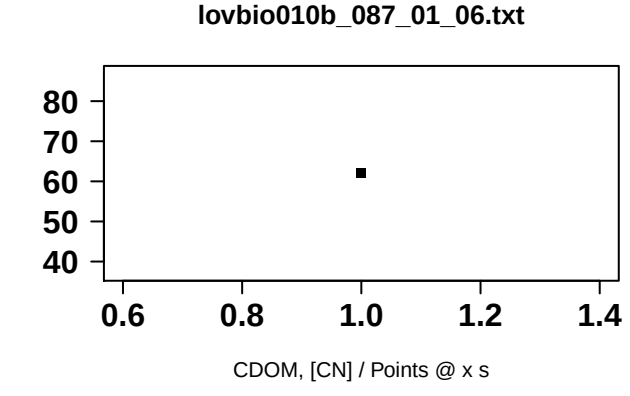

57
56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

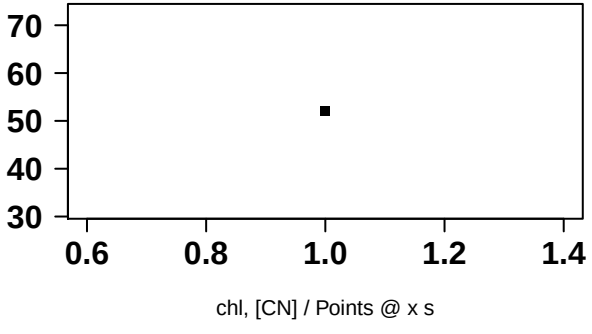

nb days: 8.3 freq: 9.9 min
140
130
120
110
100
0
200
600
1000
beta, [CN] / Points @ x s

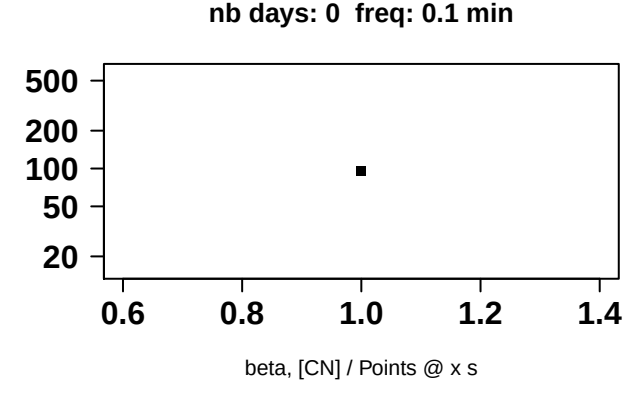

nb days: 8.3 freq: 59.4 min
3.90
3.85
3.80
3.75
3.70
3.65
3.60
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

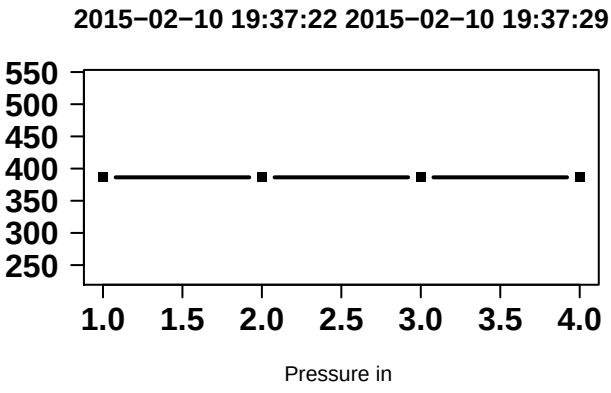

2015−02−10 14:48:06 2015−02−10 14:48:13
1100
1000
900
800
700
600
500
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

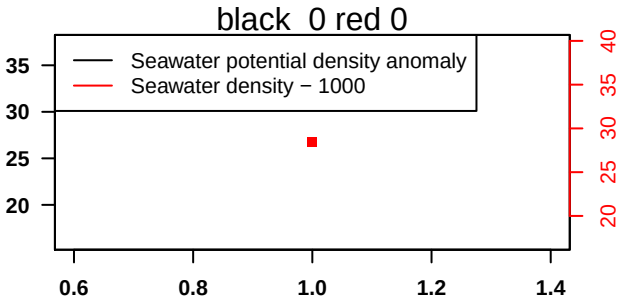

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

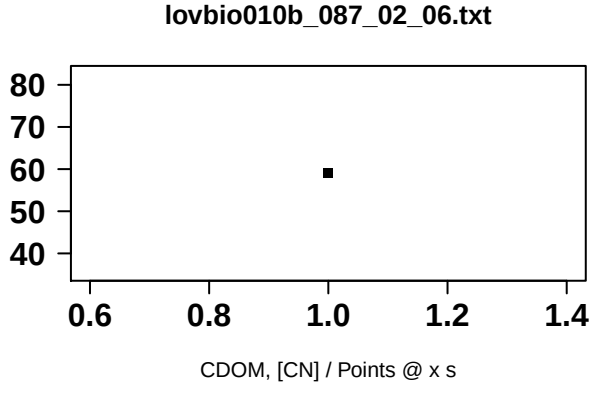

lovbio010b_087_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

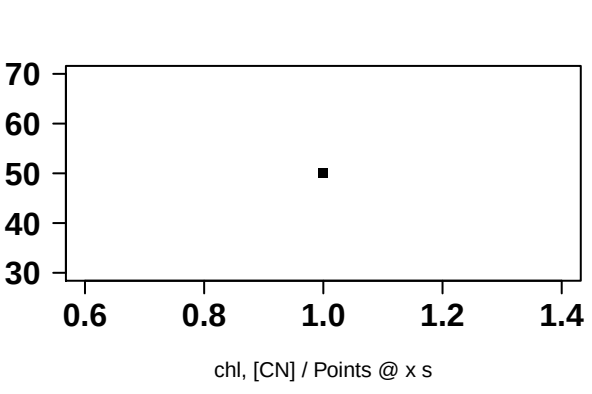

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

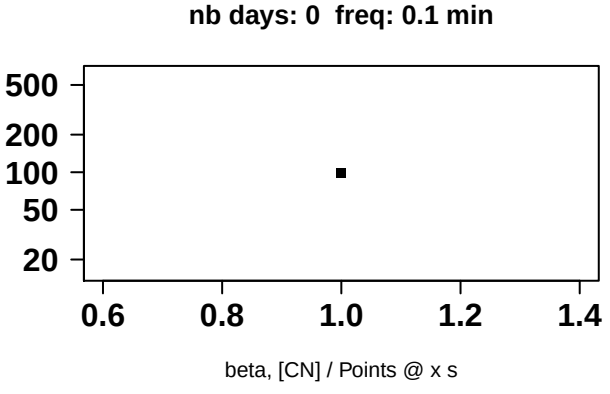

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

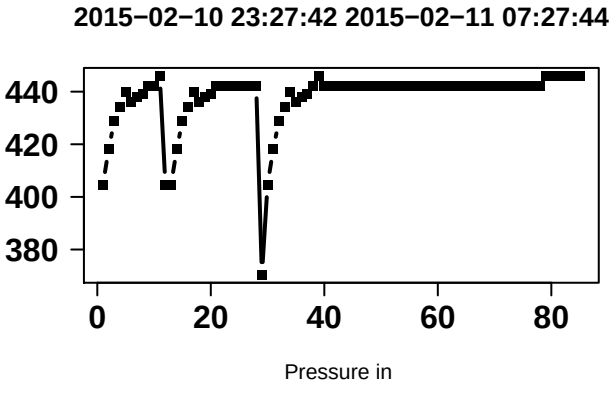

2015−02−10 19:37:22 2015−02−10 19:37:29
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

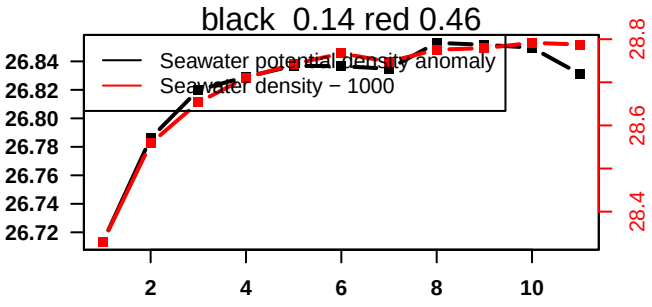

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

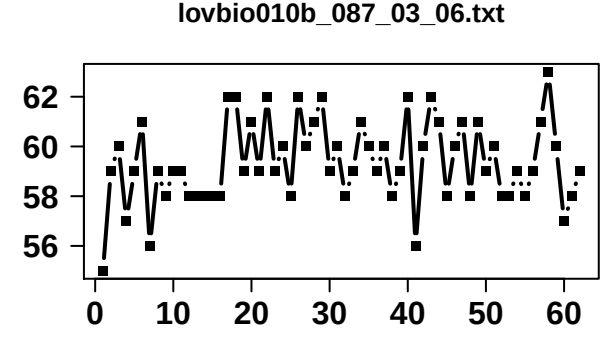

lovbio010b_087_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

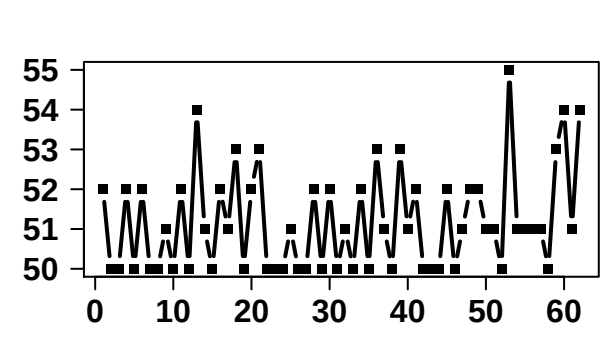

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

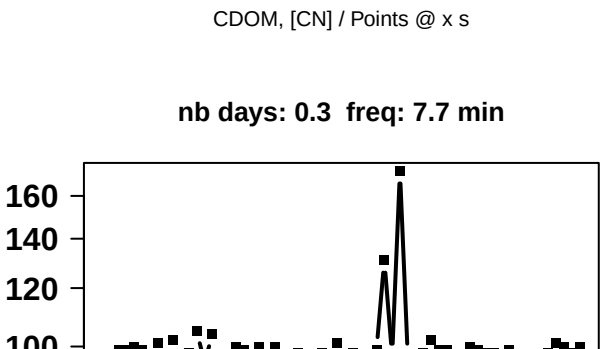

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

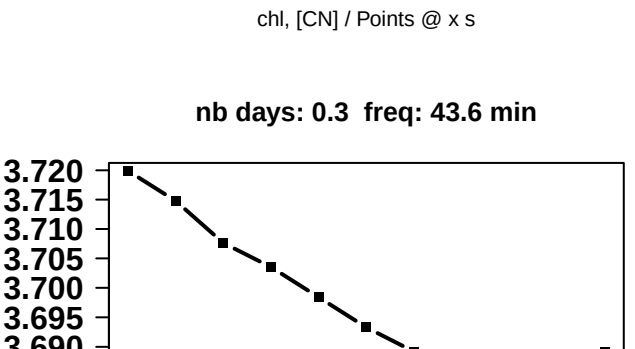

2015−02−10 23:27:42 2015−02−11 07:27:44
440
420
400
380
0
20
40
60
80
Pressure in

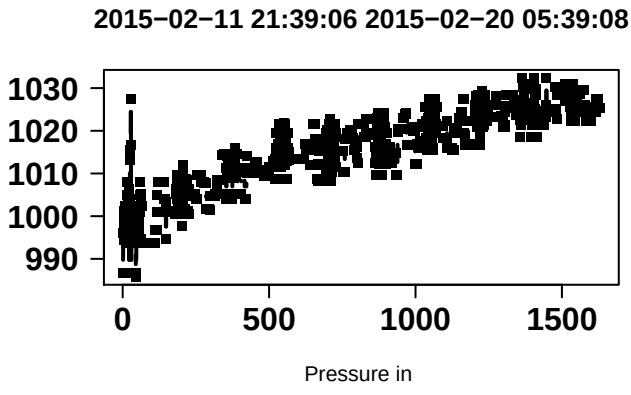

black 0.14 red 0.46
Seawater potential density anomaly
Seawater density − 1000
26.84
26.82
26.80
26.78
26.76
26.74
26.72
28.8
28.6
28.4
2
4
6
8
10

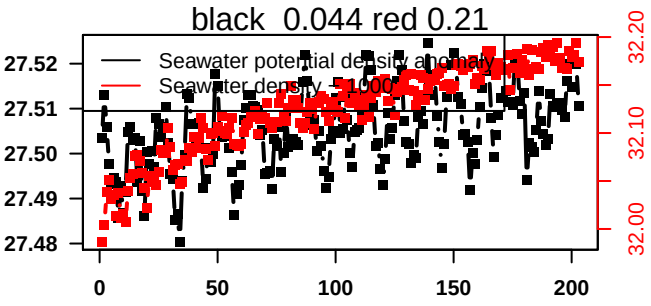

lovbio010b_087_03_06.txt
62
60
58
56
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

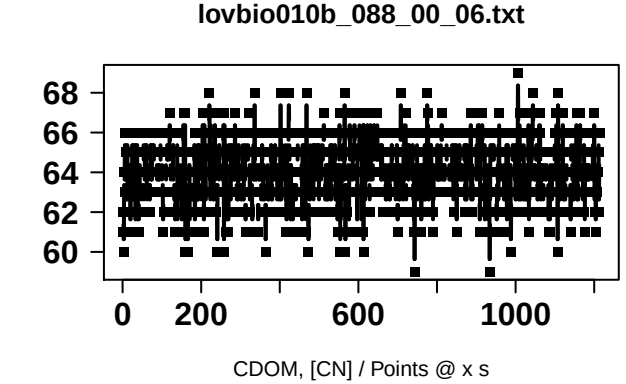

55
54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

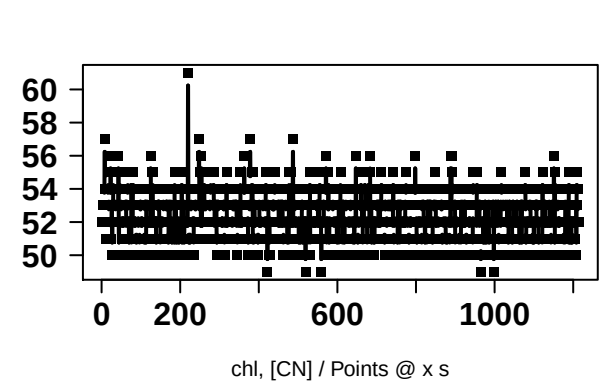

nb days: 0.3 freq: 7.7 min
160
140
120
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

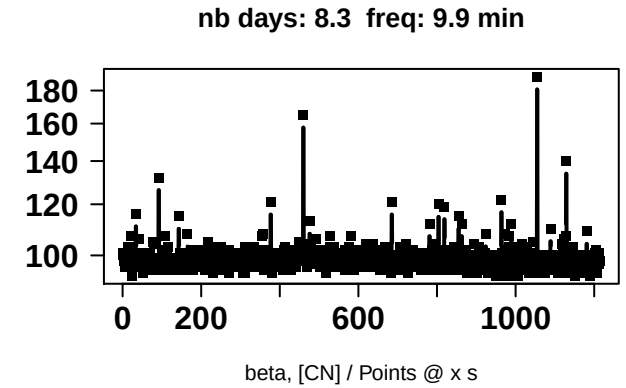

nb days: 0.3 freq: 43.6 min
3.720
3.715
3.710
3.705
3.700
3.695
3.690
3.685
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

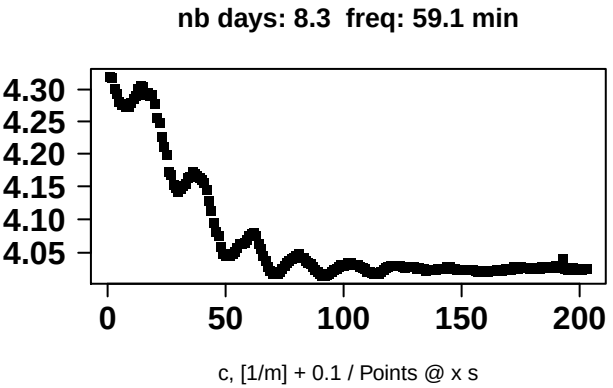

2015−02−11 21:39:06 2015−02−20 05:39:08
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

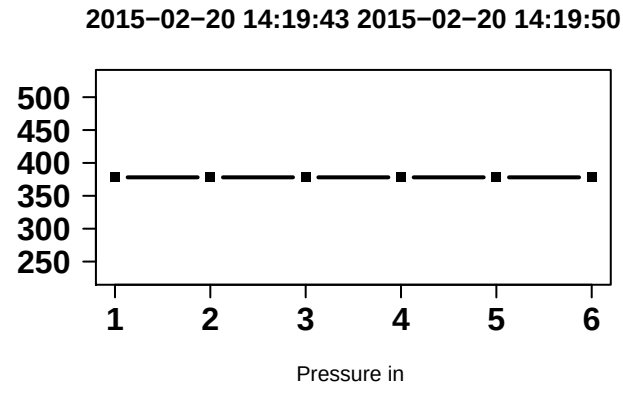

black 0.044 red 0.21
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
32.20
32.10
32.00
0
50
100
150
200

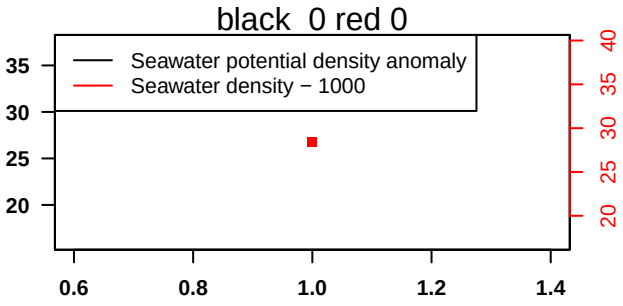

lovbio010b_088_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

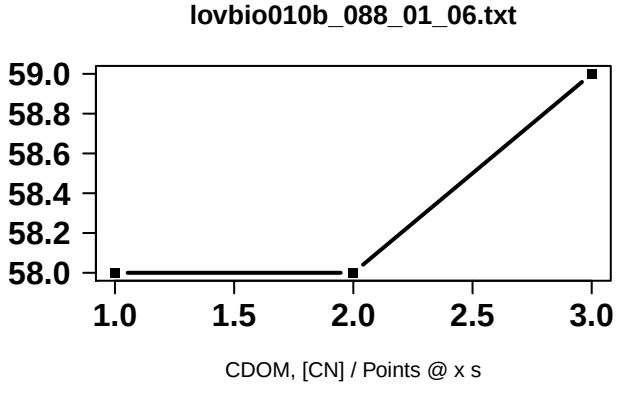

60
58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

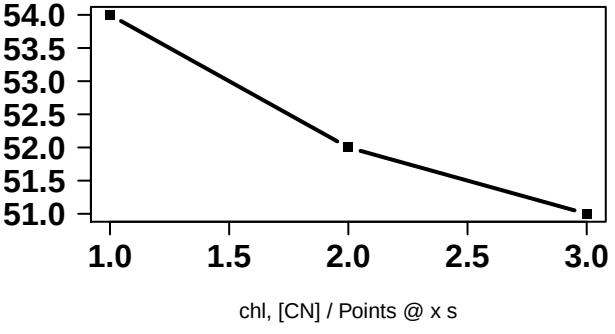

nb days: 8.3 freq: 9.9 min
180
160
140
120
100
0
200
600
1000
beta, [CN] / Points @ x s

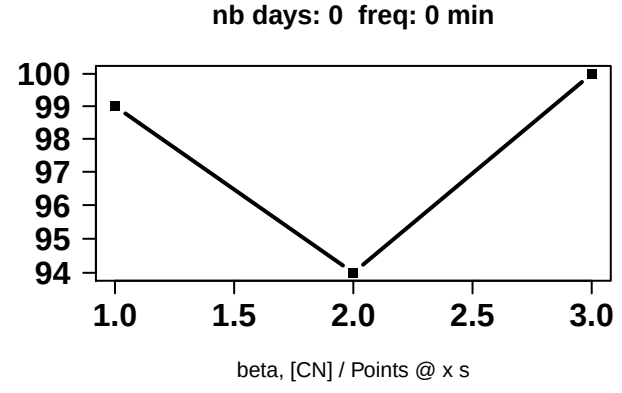

nb days: 8.3 freq: 59.1 min
4.30
4.25
4.20
4.15
4.10
4.05
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

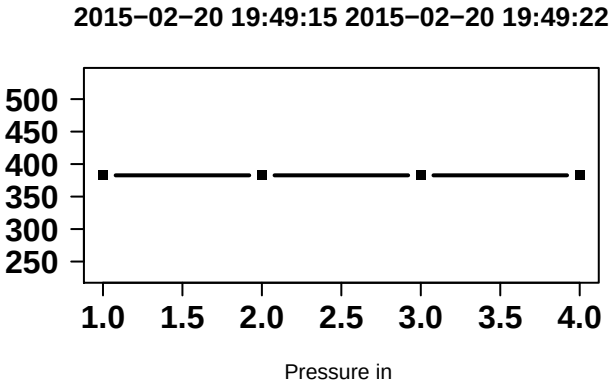

2015−02−20 14:19:43 2015−02−20 14:19:50
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

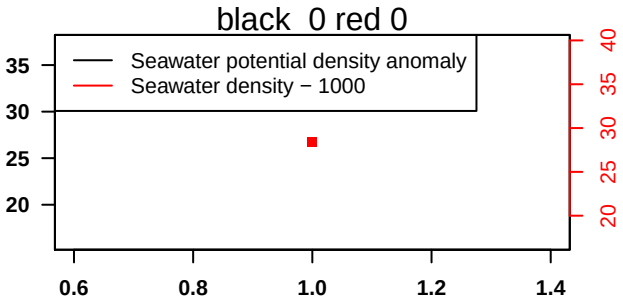

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

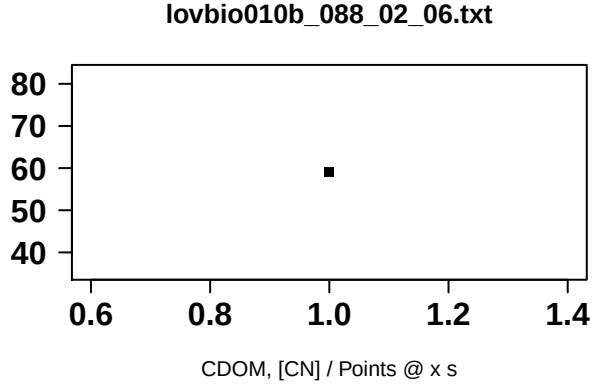

lovbio010b_088_01_06.txt
59.0
58.8
58.6
58.4
58.2
58.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

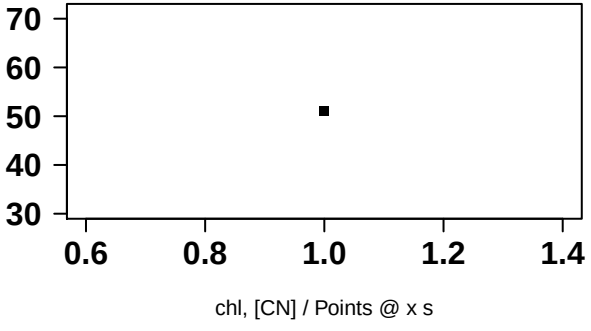

54.0
53.5
53.0
52.5
52.0
51.5
51.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

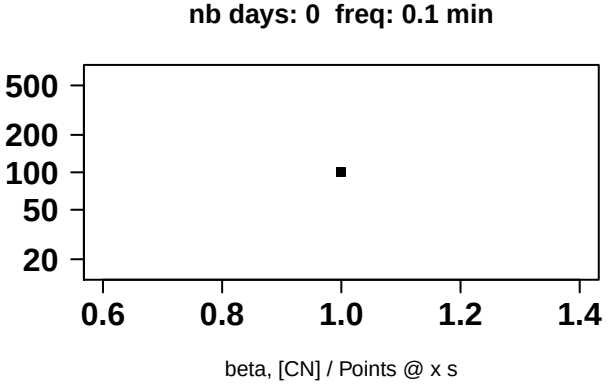

nb days: 0 freq: 0 min
100
99
98
97
96
95
94
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

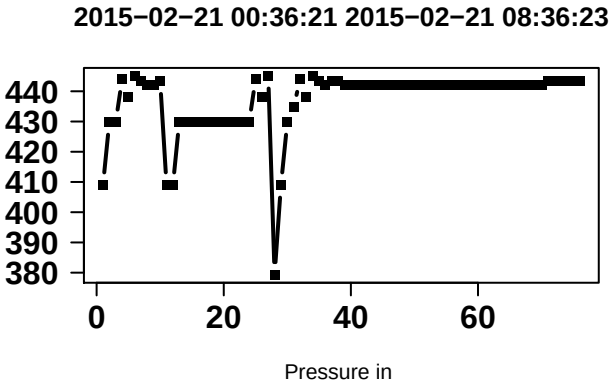

2015−02−20 19:49:15 2015−02−20 19:49:22
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

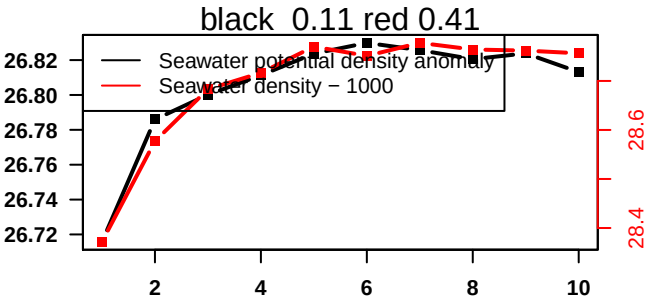

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

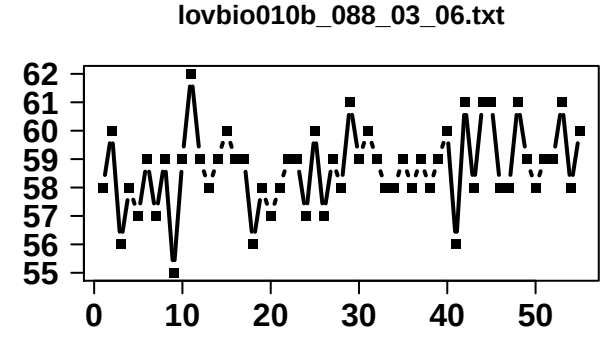

lovbio010b_088_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

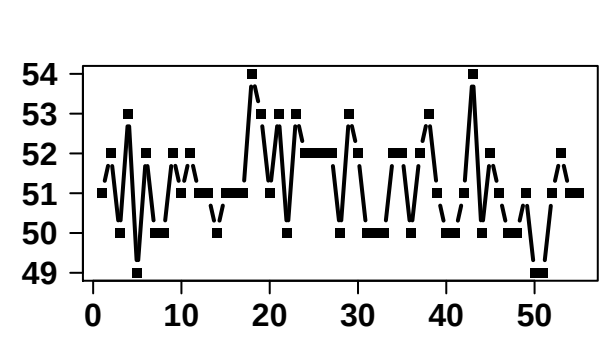

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

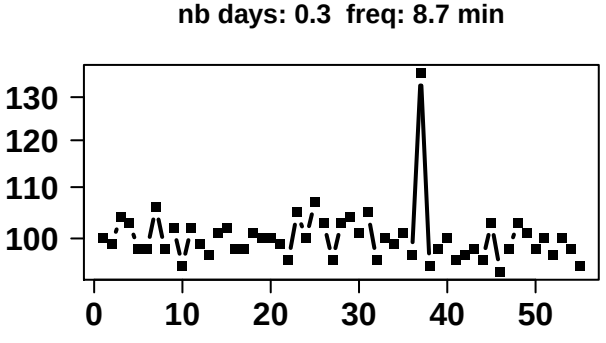

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

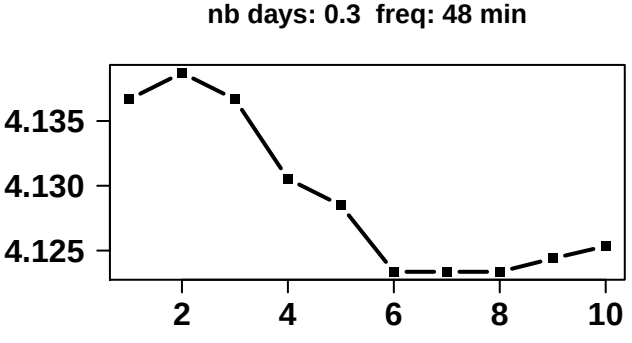

2015−02−21 00:36:21 2015−02−21 08:36:23
440
430
420
410
400
390
380
0
20
40
60
Pressure in

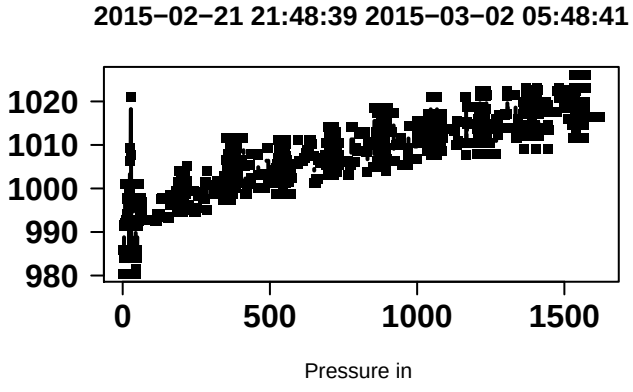

black 0.11 red 0.41
Seawater potential density anomaly
Seawater density − 1000
26.82
26.80
26.78
26.76
26.74
26.72
28.6
28.4
2
4
6
8
10

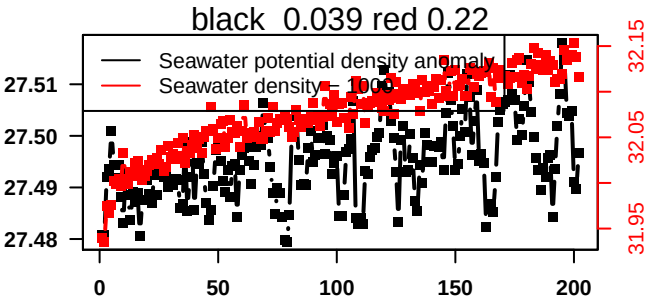

lovbio010b_088_03_06.txt
62
61
60
59
58
57
56
55
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

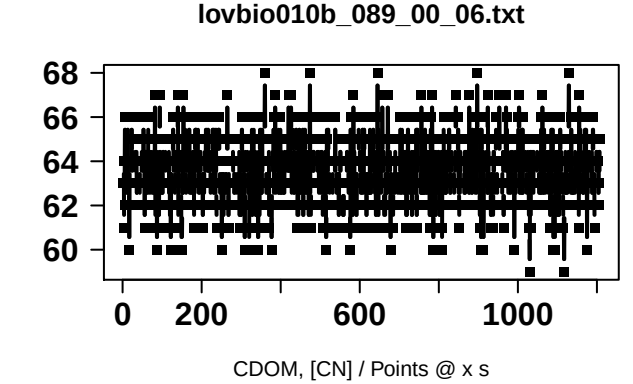

54
53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

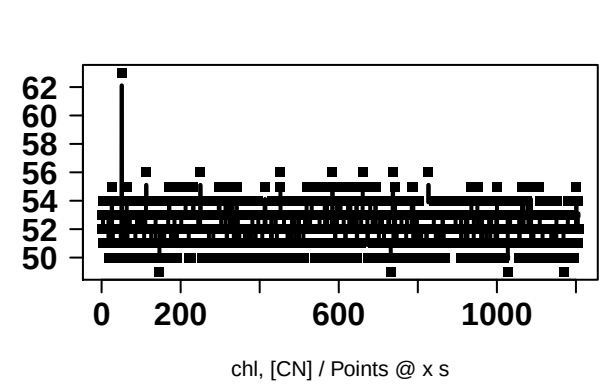

nb days: 0.3 freq: 8.7 min
130
120
110
100
0
10
20
30
40
50
beta, [CN] / Points @ x s

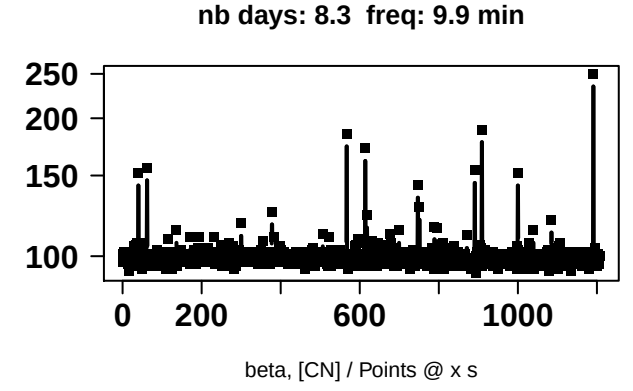

nb days: 0.3 freq: 48 min
4.135
4.130
4.125
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

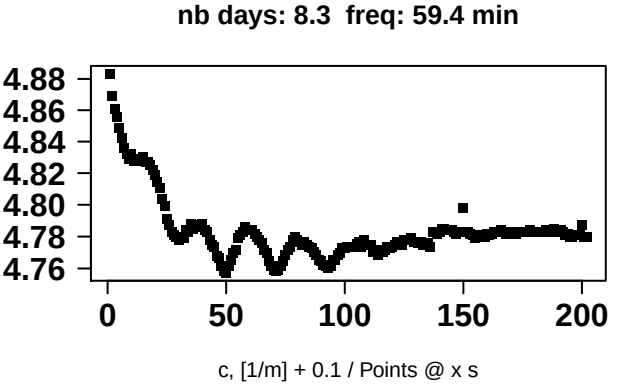

2015−02−21 21:48:39 2015−03−02 05:48:41
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

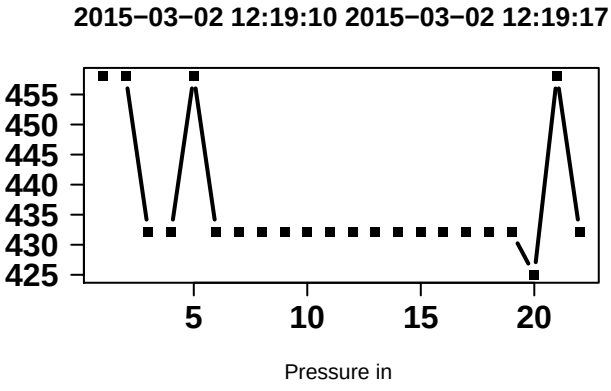

black 0.039 red 0.22
Seawater potential density anomaly
Seawater density − 1000
27.51
27.50
27.49
27.48
32.15
32.05
31.95
0
50
100
150
200

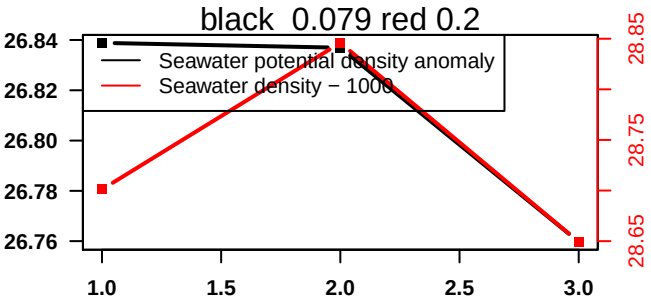

lovbio010b_089_00_06.txt
68
66
64
62
60
0
200
600
1000
CDOM, [CN] / Points @ x s

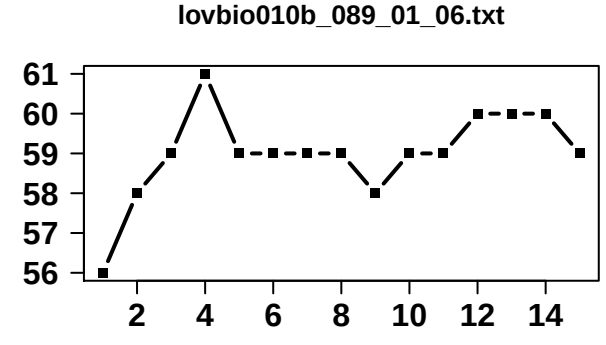

62
60
58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

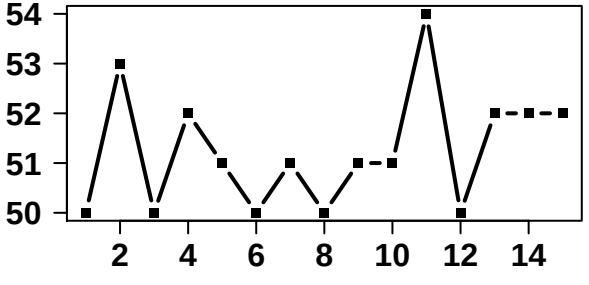

nb days: 8.3 freq: 9.9 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

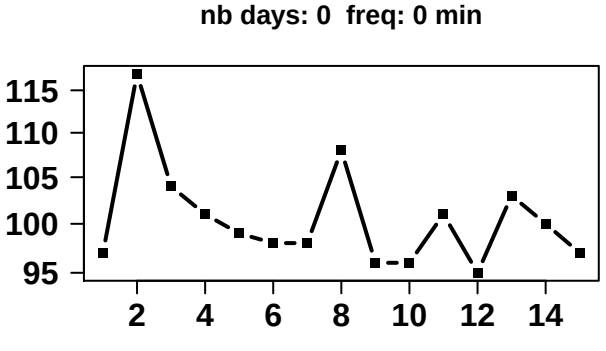

nb days: 8.3 freq: 59.4 min
4.88
4.86
4.84
4.82
4.80
4.78
4.76
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

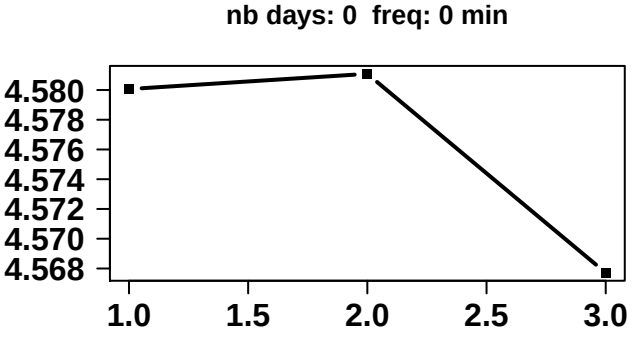

2015−03−02 12:19:10 2015−03−02 12:19:17
455
450
445
440
435
430
425
5
10
15
20
Pressure in

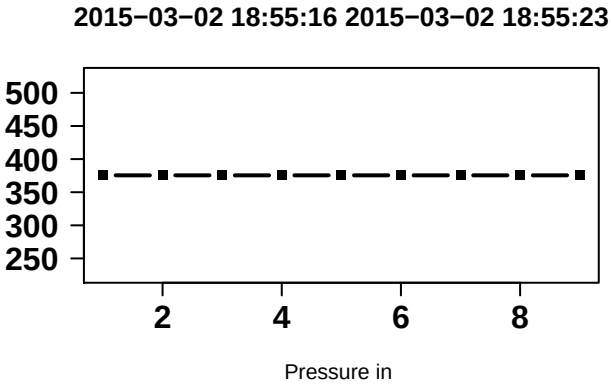

black 0.079 red 0.2
Seawater potential density anomaly
Seawater density − 1000
26.84
26.82
26.80
26.78
26.76
28.85
28.75
28.65
1.0
1.5
2.0
2.5
3.0

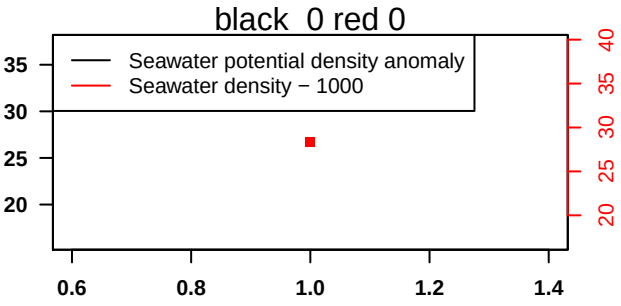

lovbio010b_089_01_06.txt
61
60
59
58
57
56
2
4
6
8
10
12
14
CDOM, [CN] / Points @ x s

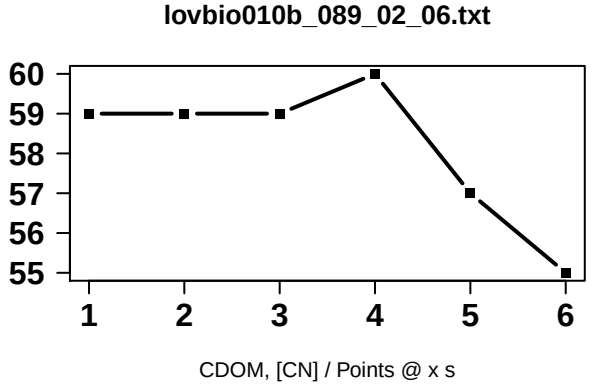

54
53
52
51
50
2
4
6
8
10
12
14
chl, [CN] / Points @ x s

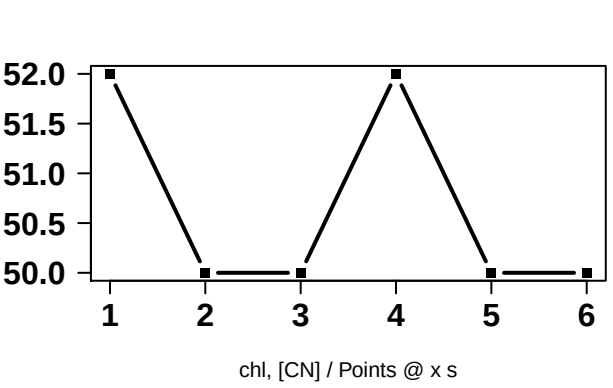

nb days: 0 freq: 0 min
115
110
105
100
95
2
4
6
8
10
12
14
beta, [CN] / Points @ x s

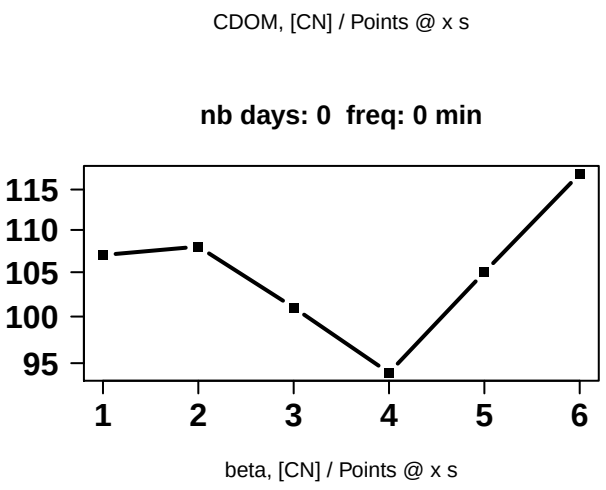

nb days: 0 freq: 0 min
4.580
4.578
4.576
4.574
4.572
4.570
4.568
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

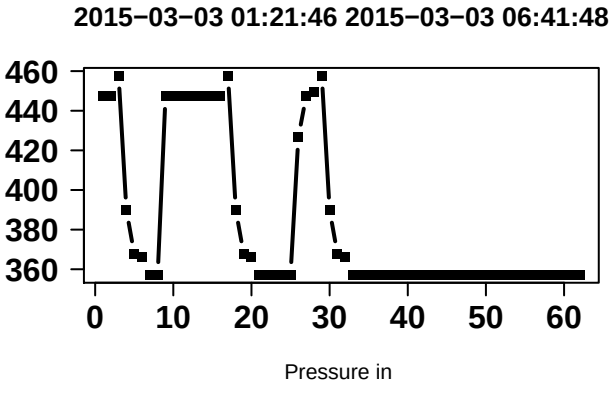

2015−03−02 18:55:16 2015−03−02 18:55:23
500
450
400
350
300
250
2
4
6
8
Pressure in

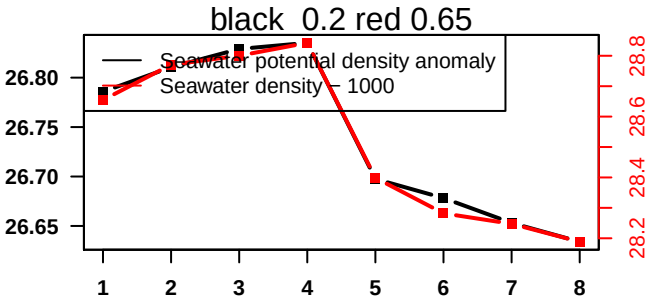

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

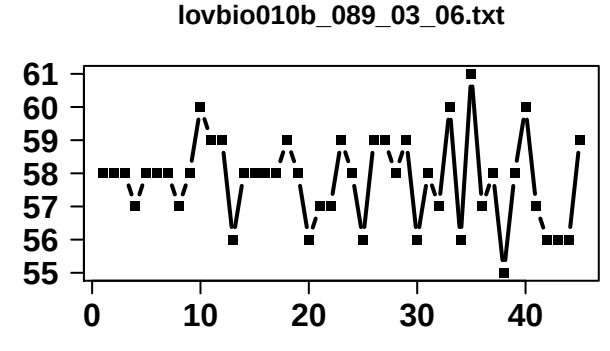

lovbio010b_089_02_06.txt
60
59
58
57
56
55
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

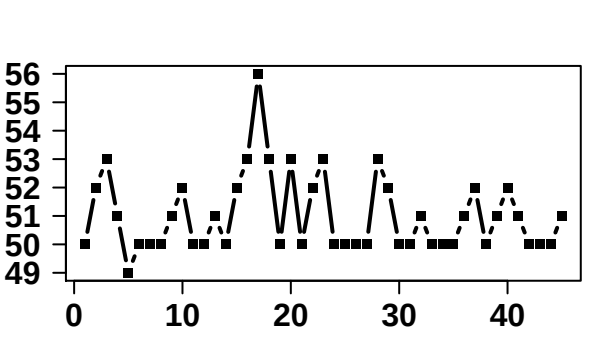

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

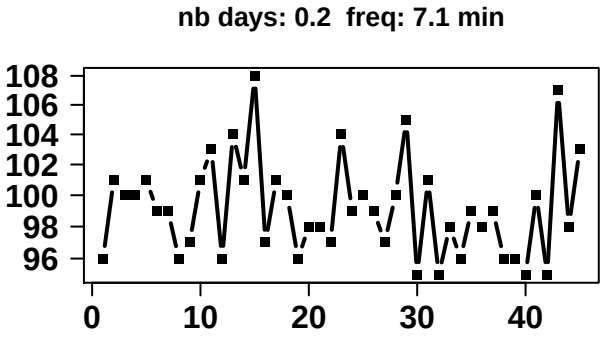

nb days: 0 freq: 0 min
115
110
105
100
95
1
2
3
4
5
6
beta, [CN] / Points @ x s

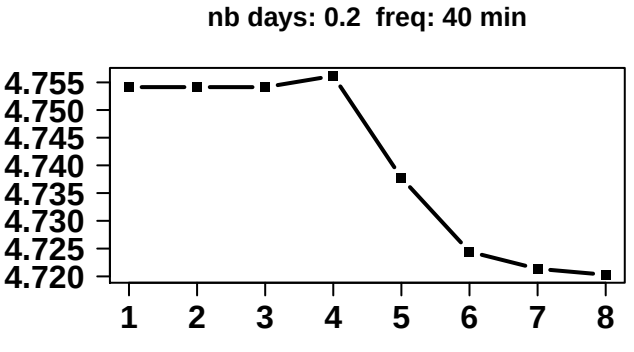

2015−03−03 01:21:46 2015−03−03 06:41:48
460
440
420
400
380
360
0
10
20
30
40
50
60
Pressure in

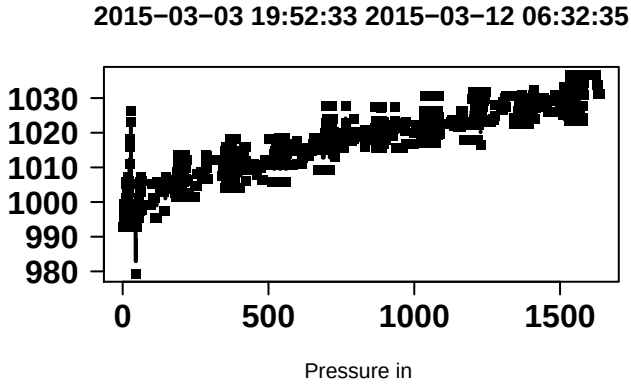

black 0.2 red 0.65
Seawater potential density anomaly
Seawater density − 1000
26.80
26.75
26.70
26.65
28.8
28.6
28.4
28.2
1
2
3
4
5
6
7
8

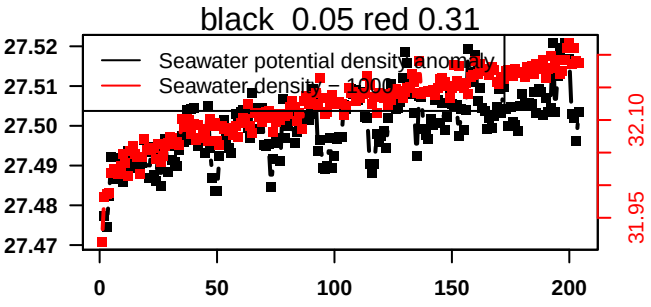

lovbio010b_089_03_06.txt
61
60
59
58
57
56
55
0
10
20
30
40
CDOM, [CN] / Points @ x s

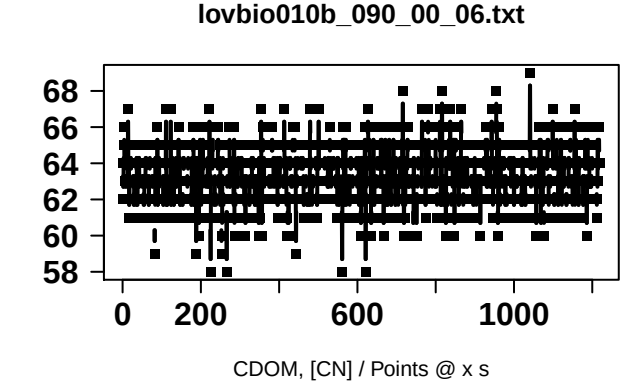

56
55
54
53
52
51
50
49
0
10
20
30
40
chl, [CN] / Points @ x s

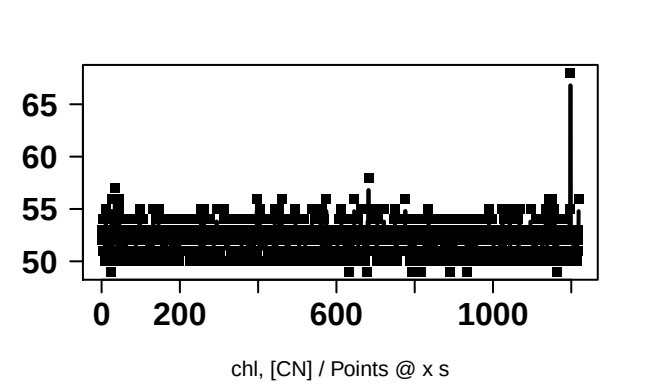

nb days: 0.2 freq: 7.1 min
108
106
104
102
100
98
96
0
10
20
30
40
beta, [CN] / Points @ x s

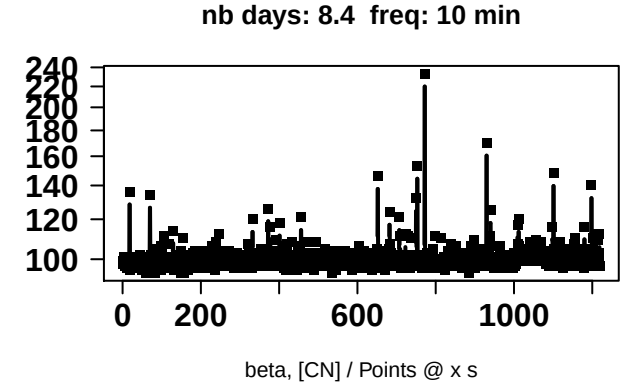

nb days: 0.2 freq: 40 min
4.755
4.750
4.745
4.740
4.735
4.730
4.725
4.720
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

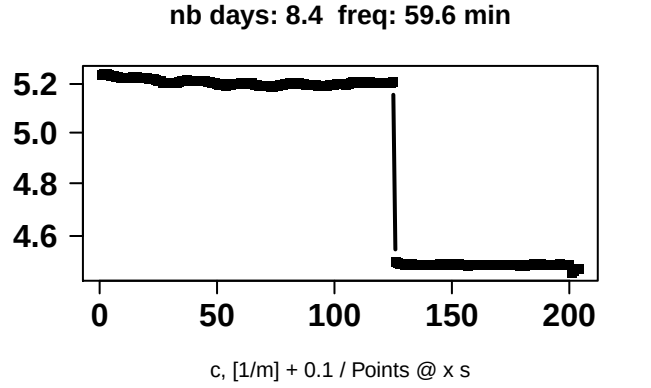

2015−03−03 19:52:33 2015−03−12 06:32:35
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

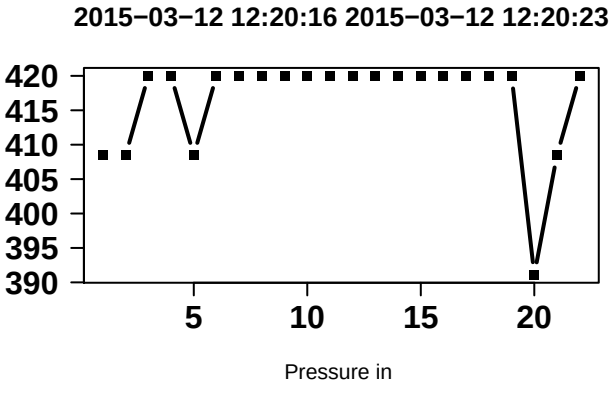

black 0.05 red 0.31
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
27.47
32.10
31.95
0
50
100
150
200

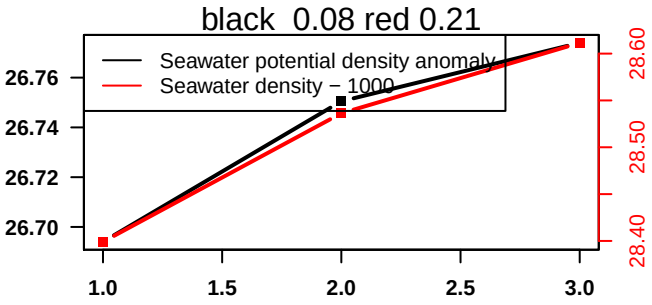

lovbio010b_090_00_06.txt
68
66
64
62
60
58
0
200
600
1000
CDOM, [CN] / Points @ x s

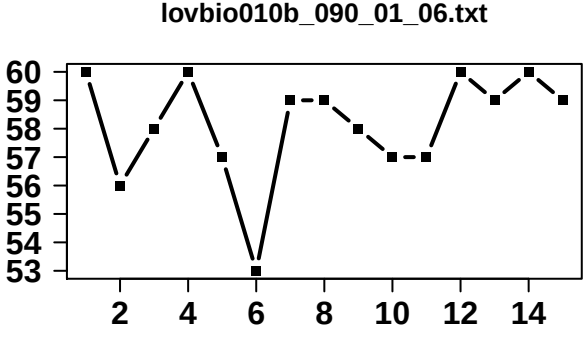

65
60
55
50
0
200
600
1000
chl, [CN] / Points @ x s

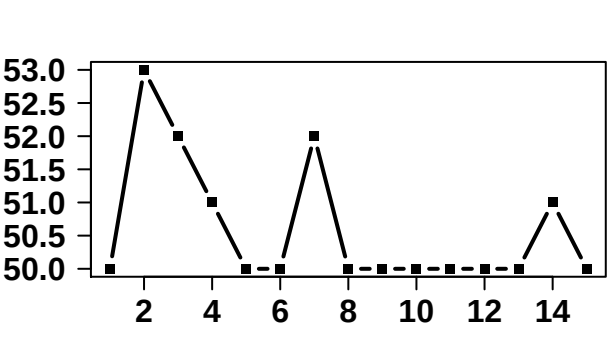

nb days: 8.4 freq: 10 min
240
220
200
180
160
140
120
100
0
200
600
1000
beta, [CN] / Points @ x s

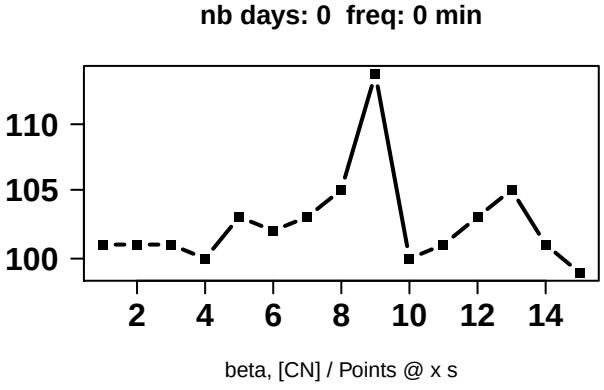

nb days: 8.4 freq: 59.6 min
5.2
5.0
4.8
4.6
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

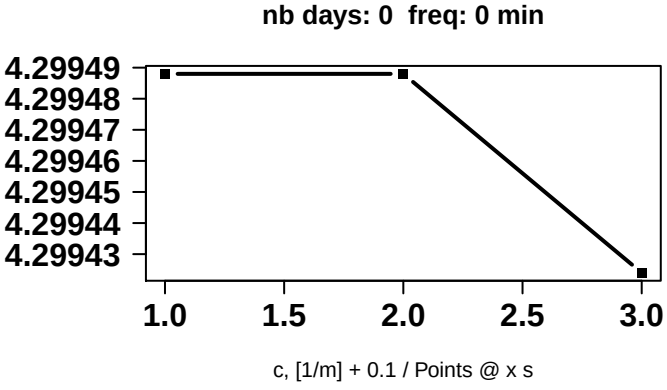

2015−03−12 12:20:16 2015−03−12 12:20:23
420
415
410
405
400
395
390
5
10
15
20
Pressure in

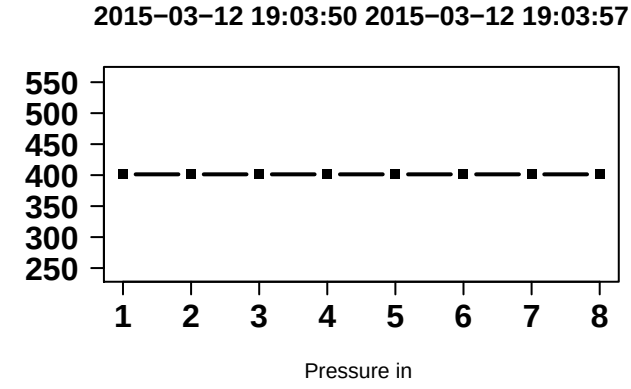

black 0.08 red 0.21
Seawater potential density anomaly
Seawater density − 1000
26.76
26.74
26.72
26.70
28.60
28.50
28.40
1.0
1.5
2.0
2.5
3.0

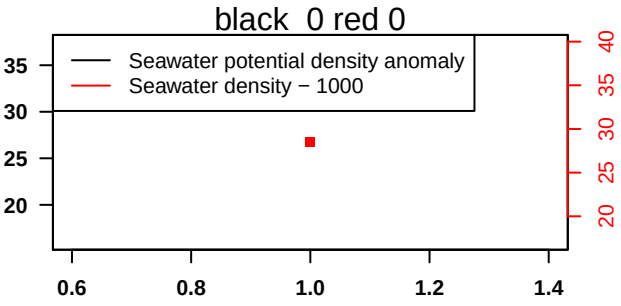

lovbio010b_090_01_06.txt
60
59
58
57
56
55
54
53
2
4
6
8
10
12
14
CDOM, [CN] / Points @ x s

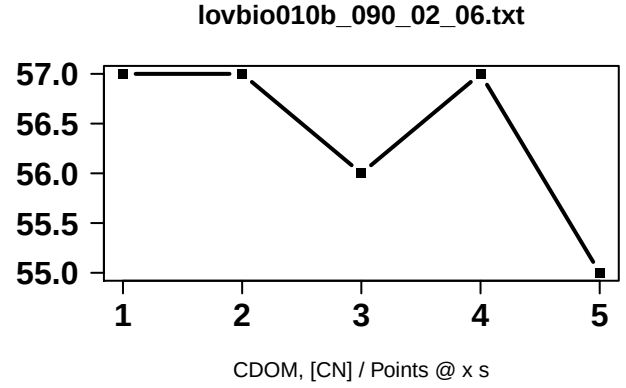

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
12
14
chl, [CN] / Points @ x s

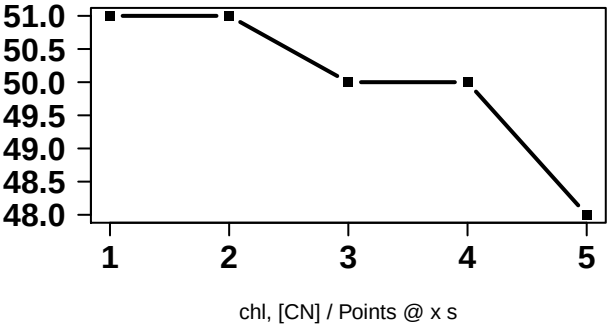

nb days: 0 freq: 0 min
110
105
100
2
4
6
8
10
12
14
beta, [CN] / Points @ x s

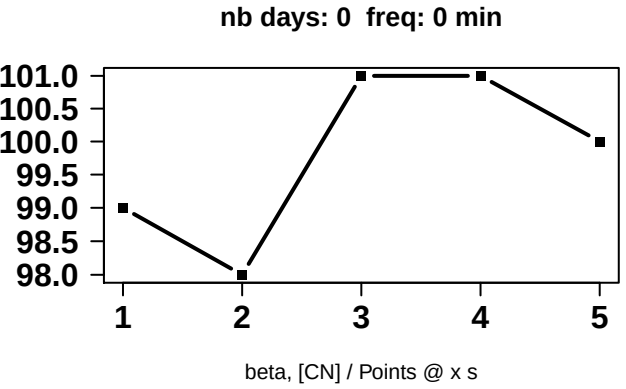

nb days: 0 freq: 0 min
4.29949
4.29948
4.29947
4.29946
4.29945
4.29944
4.29943
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

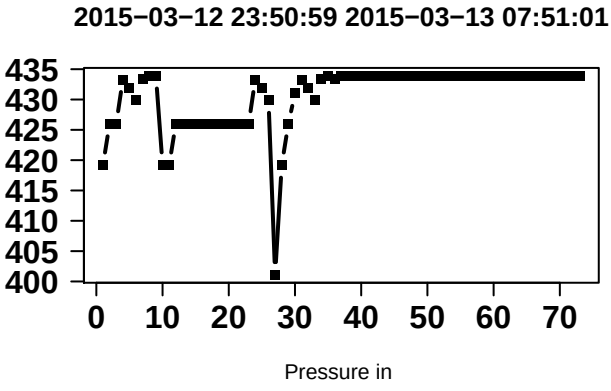

2015−03−12 19:03:50 2015−03−12 19:03:57
550
500
450
400
350
300
250
1
2
3
4
5
6
7
8
Pressure in

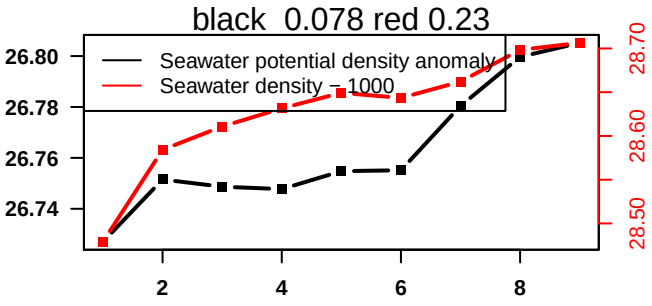

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

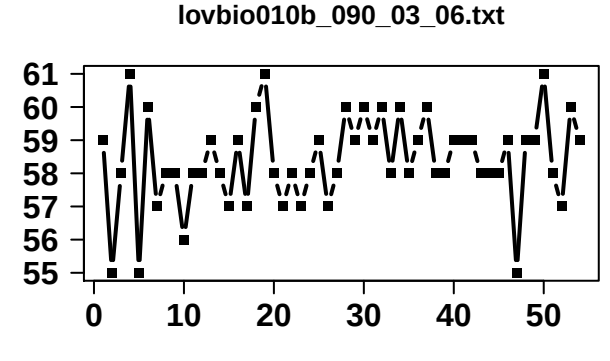

lovbio010b_090_02_06.txt
57.0
56.5
56.0
55.5
55.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

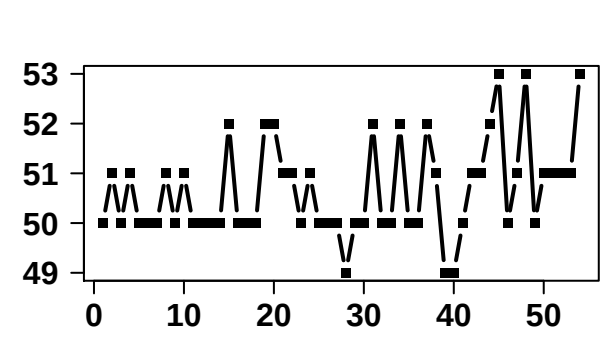

51.0
50.5
50.0
49.5
49.0
48.5
48.0
1
2
3
4
5
chl, [CN] / Points @ x s

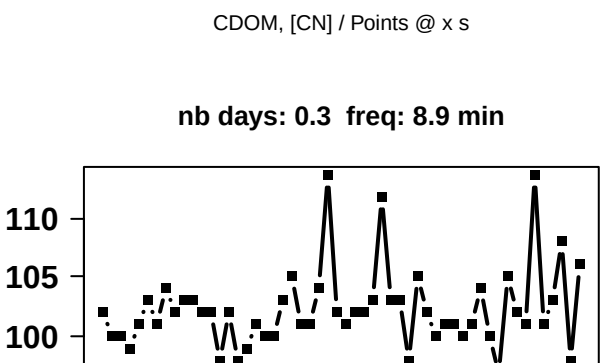

nb days: 0 freq: 0 min
101.0
100.5
100.0
99.5
99.0
98.5
98.0
1
2
3
4
5
beta, [CN] / Points @ x s

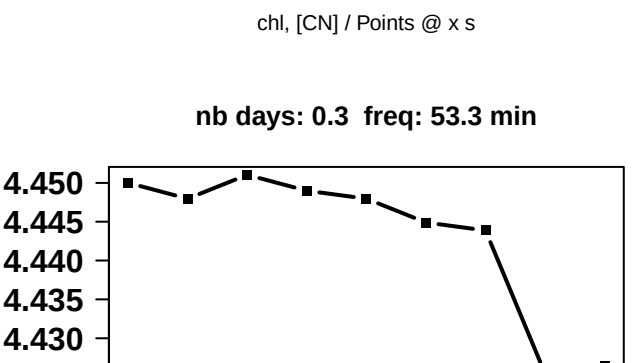

2015−03−12 23:50:59 2015−03−13 07:51:01
435
430
425
420
415
410
405
400
0
10
20
30
40
50
60
70
Pressure in

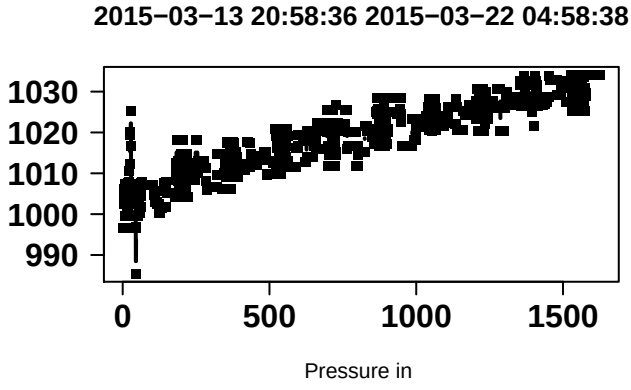

black 0.078 red 0.23
Seawater potential density anomaly
Seawater density − 1000
26.80
26.78
26.76
26.74
28.70
28.60
28.50
2
4
6
8

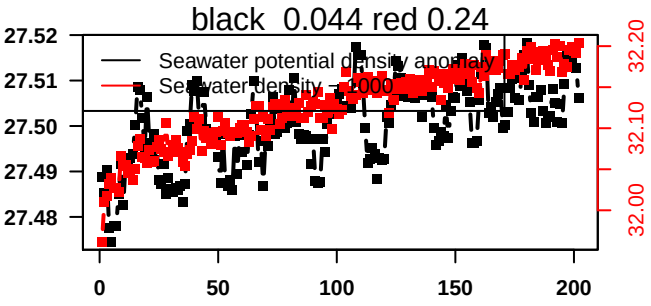

lovbio010b_090_03_06.txt
61
60
59
58
57
56
55
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

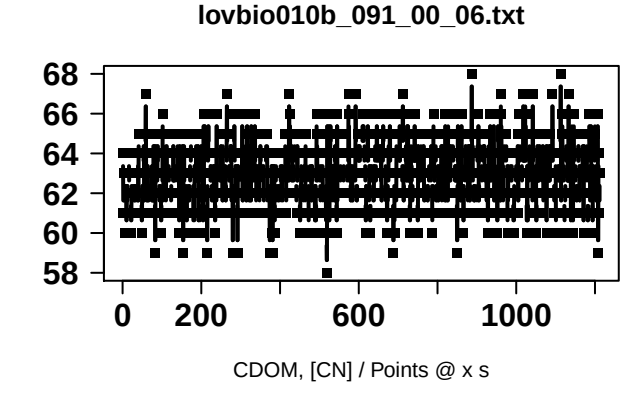

53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

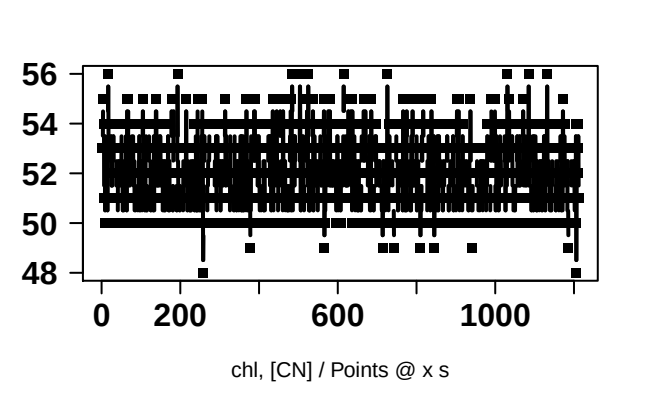

nb days: 0.3 freq: 8.9 min
110
105
100
0
10
20
30
40
50
beta, [CN] / Points @ x s

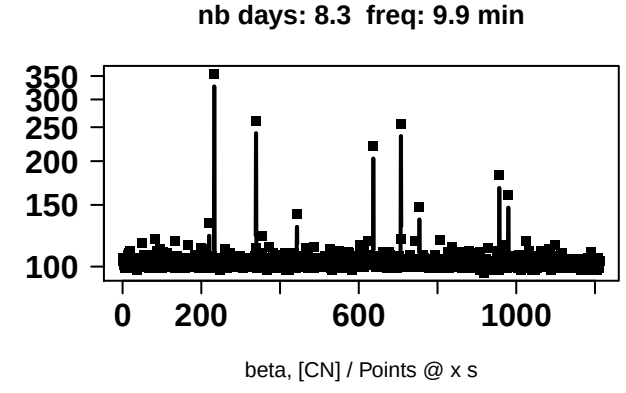

nb days: 0.3 freq: 53.3 min
4.450
4.445
4.440
4.435
4.430
4.425
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

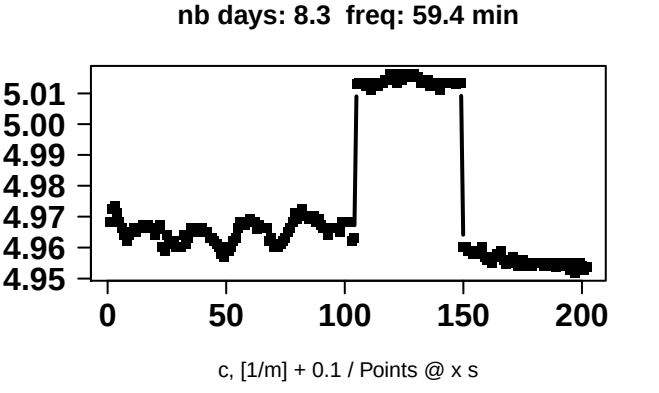

2015−03−13 20:58:36 2015−03−22 04:58:38
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

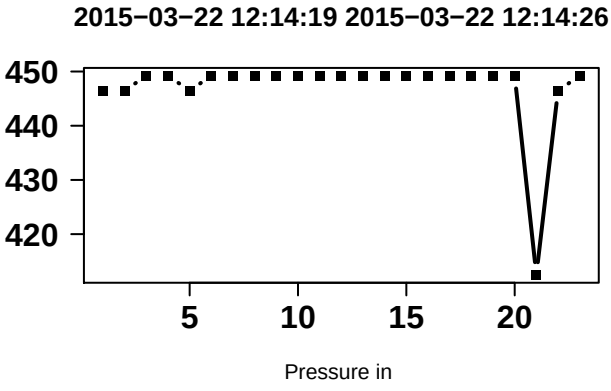

black 0.044 red 0.24
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
32.20
32.10
32.00
0
50
100
150
200

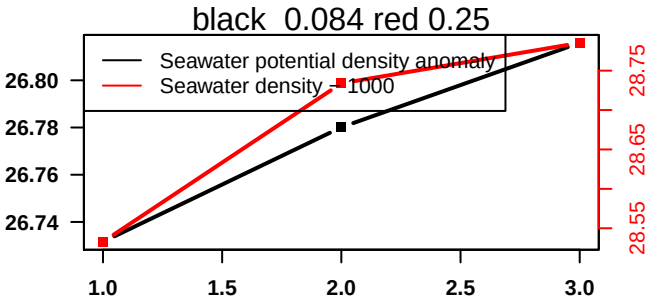

lovbio010b_091_00_06.txt
68
66
64
62
60
58
0
200
600
1000
CDOM, [CN] / Points @ x s

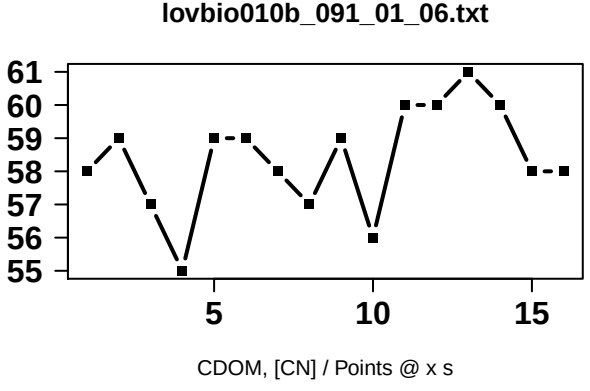

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

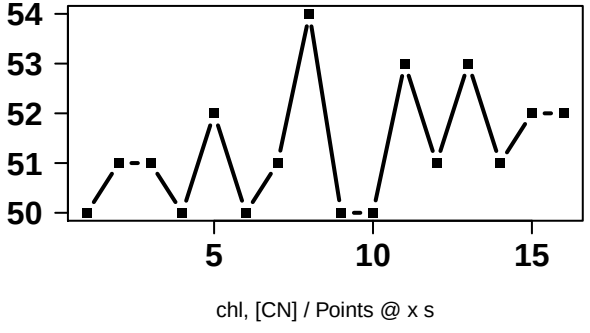

nb days: 8.3 freq: 9.9 min
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

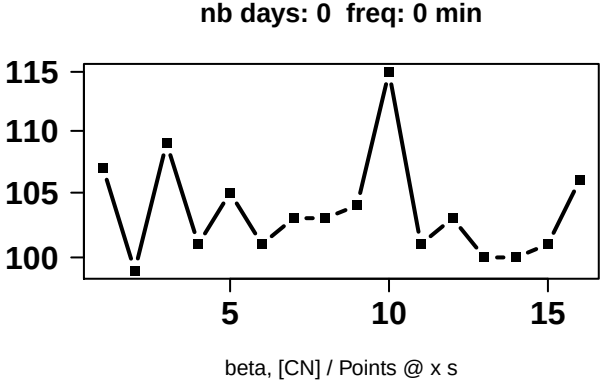

nb days: 8.3 freq: 59.4 min
5.01
5.00
4.99
4.98
4.97
4.96
4.95
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

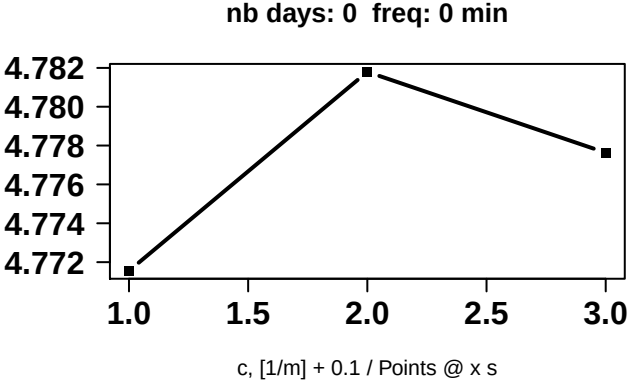

2015−03−22 12:14:19 2015−03−22 12:14:26
450
440
430
420
5
10
15
20
Pressure in

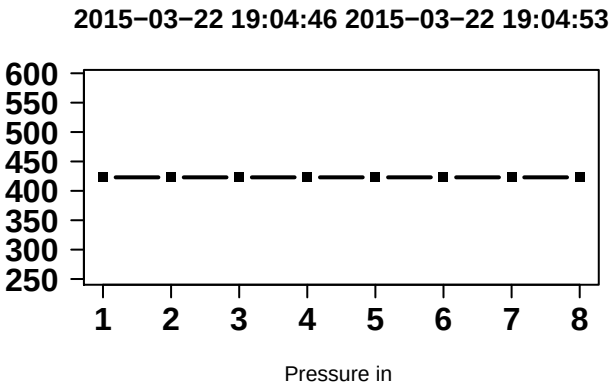

black 0.084 red 0.25
Seawater potential density anomaly
Seawater density − 1000
26.80
26.78
26.76
26.74
28.75
28.65
28.55
1.0
1.5
2.0
2.5
3.0

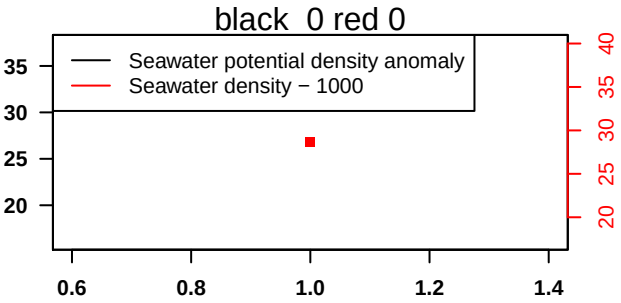

lovbio010b_091_01_06.txt
61
60
59
58
57
56
55
5
10
15
CDOM, [CN] / Points @ x s

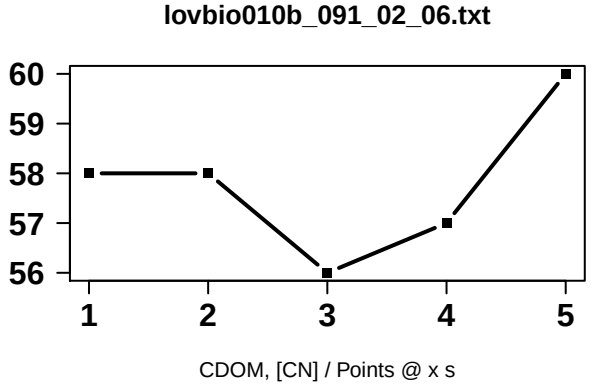

54
53
52
51
50
5
10
15
chl, [CN] / Points @ x s

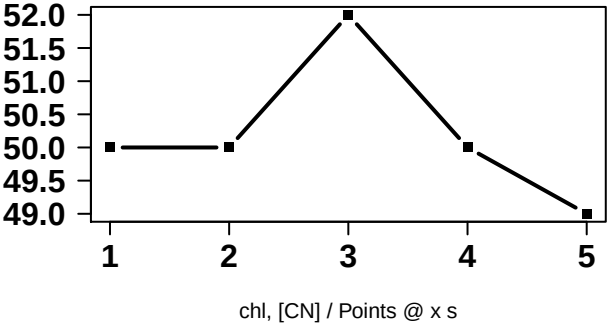

nb days: 0 freq: 0 min
115
110
105
100
5
10
15
beta, [CN] / Points @ x s

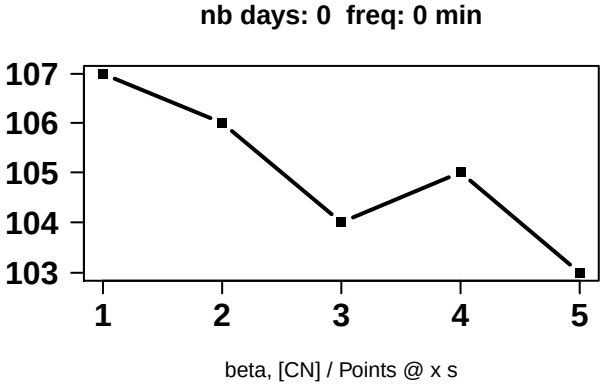

nb days: 0 freq: 0 min
4.782
4.780
4.778
4.776
4.774
4.772
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

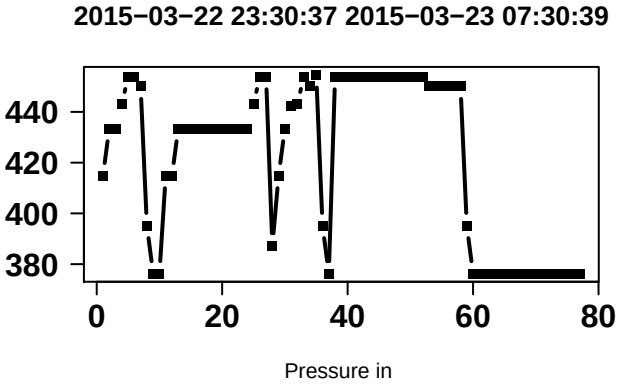

2015−03−22 19:04:46 2015−03−22 19:04:53
600
550
500
450
400
350
300
250
1
2
3
4
5
6
7
8
Pressure in

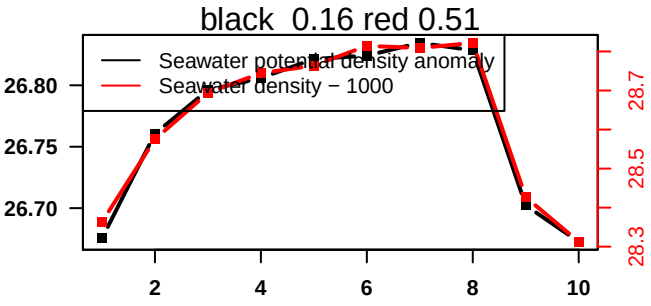

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

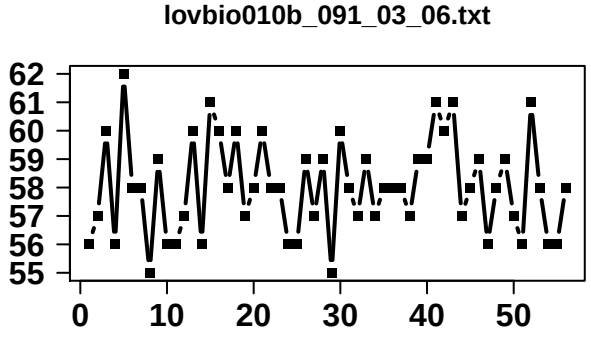

lovbio010b_091_02_06.txt
60
59
58
57
56
1
2
3
4
5
CDOM, [CN] / Points @ x s

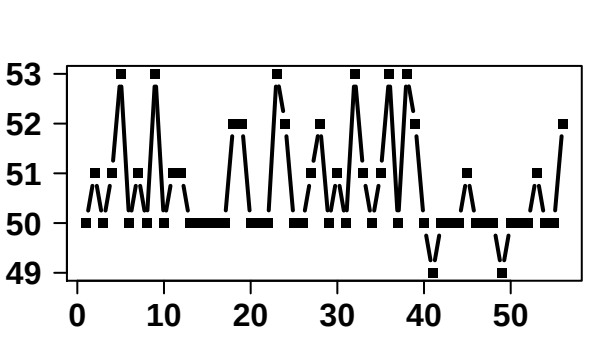

52.0
51.5
51.0
50.5
50.0
49.5
49.0
1
2
3
4
5
chl, [CN] / Points @ x s

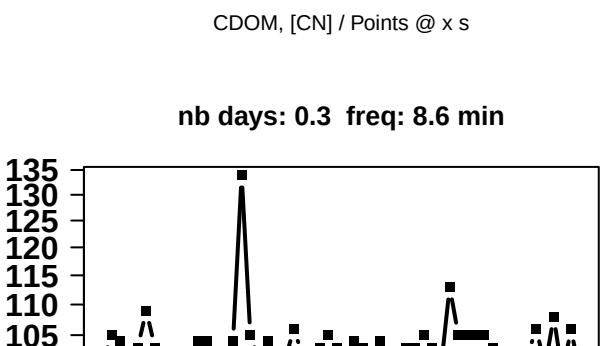

nb days: 0 freq: 0 min
107
106
105
104
103
1
2
3
4
5
beta, [CN] / Points @ x s

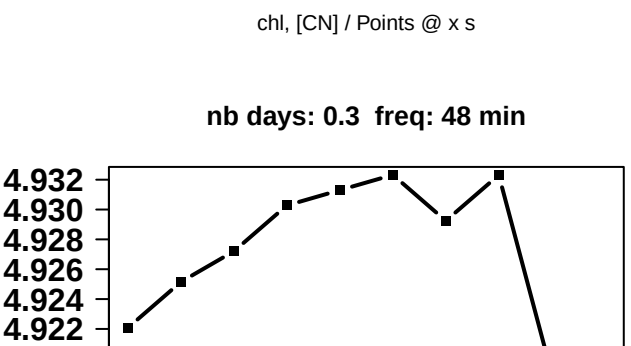

2015−03−22 23:30:37 2015−03−23 07:30:39
440
420
400
380
0
20
40
60
80
Pressure in

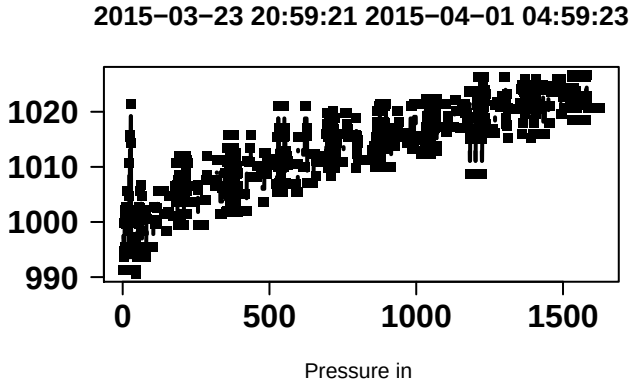

black 0.16 red 0.51
Seawater potential density anomaly
Seawater density − 1000
26.80
26.75
26.70
2
4
6
8
10
28.7
28.5
28.3

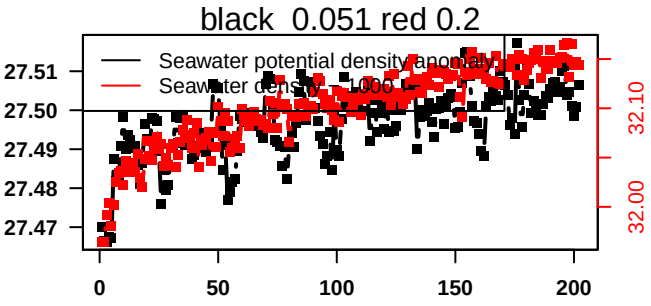

lovbio010b_091_03_06.txt
62
61
60
59
58
57
56
55
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

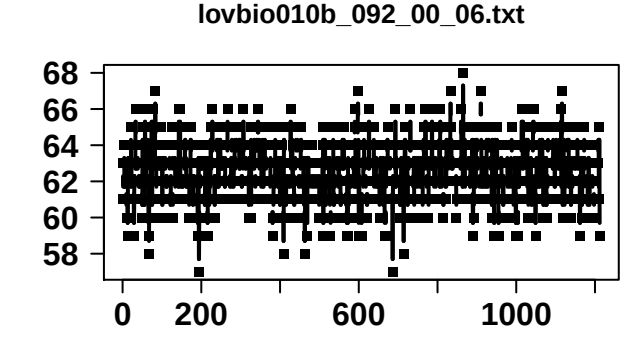

53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

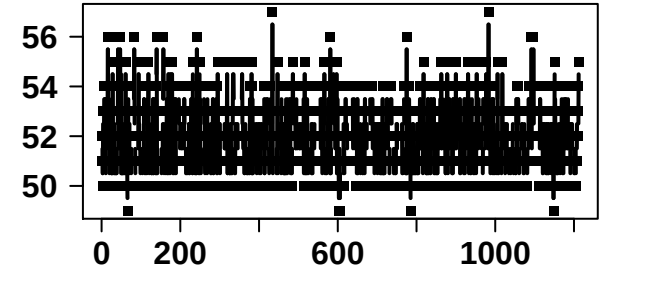

nb days: 0.3 freq: 8.6 min
135
130
125
120
115
110
105
100
0
10
20
30
40
50
beta, [CN] / Points @ x s

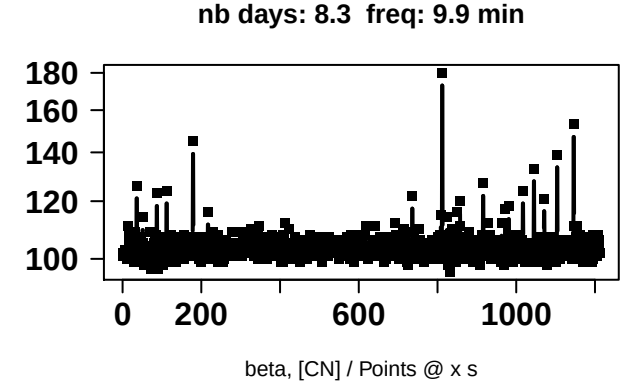

nb days: 0.3 freq: 48 min
4.932
4.930
4.928
4.926
4.924
4.922
4.920
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

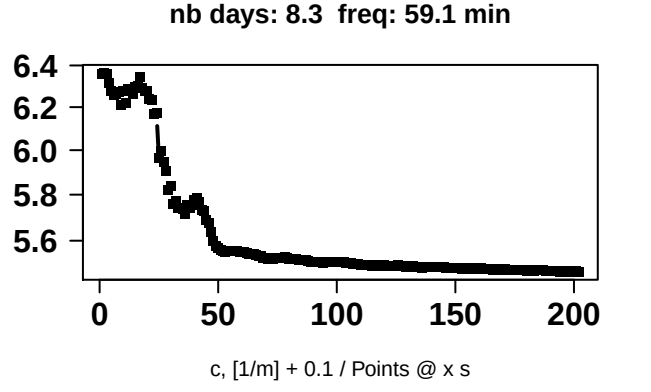

2015−03−23 20:59:21 2015−04−01 04:59:23
1020
1010
1000
990
0
500
1000
1500
Pressure in

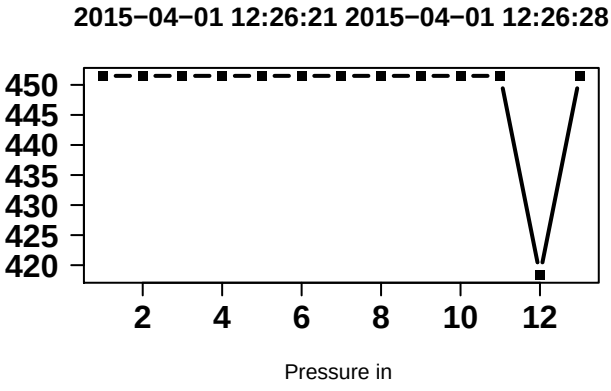

black 0.051 red 0.2
Seawater potential density anomaly
Seawater density − 1000
27.51
27.50
27.49
27.48
27.47
32.10
32.00
0
50
100
150
200

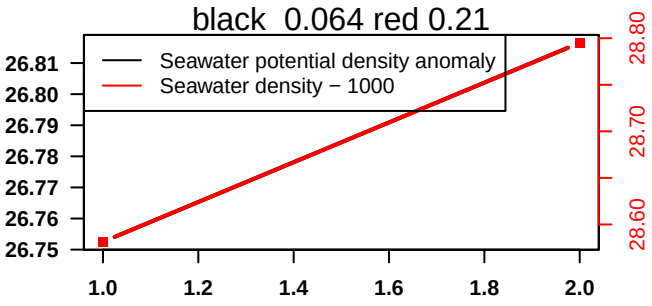

lovbio010b_092_00_06.txt
68
66
64
62
60
58
0
200
600
1000
CDOM, [CN] / Points @ x s

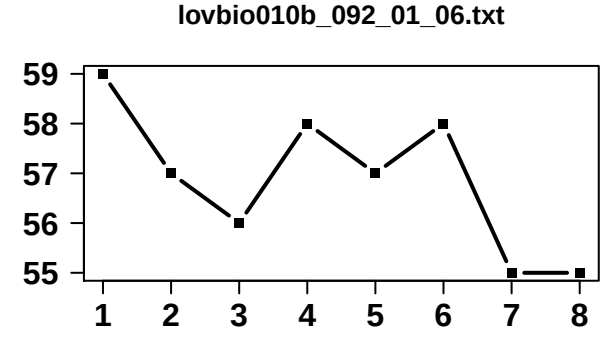

56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

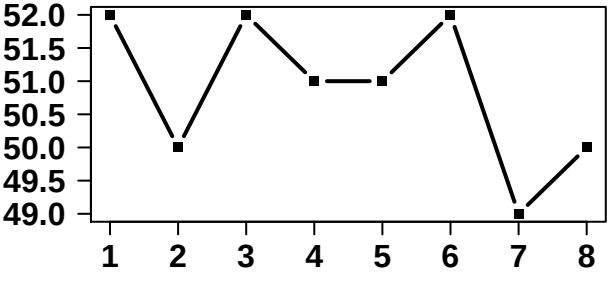

nb days: 8.3 freq: 9.9 min
180
160
140
120
100
0
200
600
1000
beta, [CN] / Points @ x s

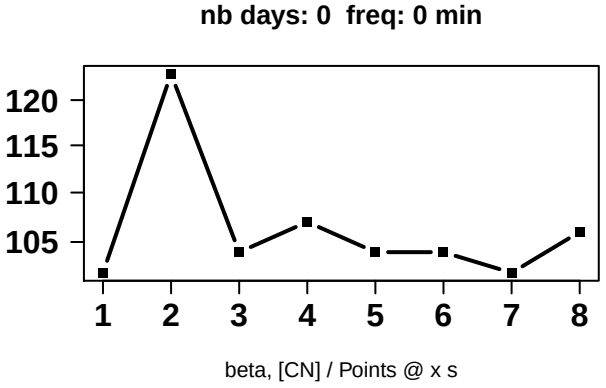

nb days: 8.3 freq: 59.1 min
6.4
6.2
6.0
5.8
5.6
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

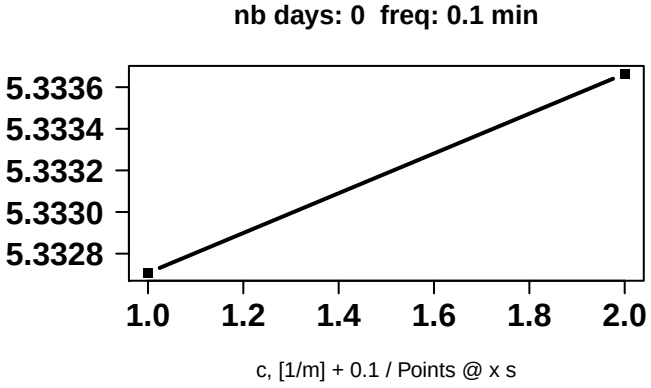

2015−04−01 12:26:21 2015−04−01 12:26:28
450
445
440
435
430
425
420
2
4
6
8
10
12
Pressure in

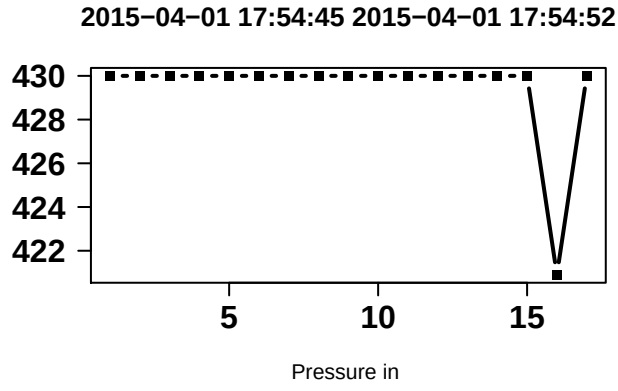

black 0.064 red 0.21
Seawater potential density anomaly
Seawater density − 1000
26.81
26.80
26.79
26.78
26.77
26.76
26.75
28.80
28.70
28.60
1.0
1.2
1.4
1.6
1.8
2.0

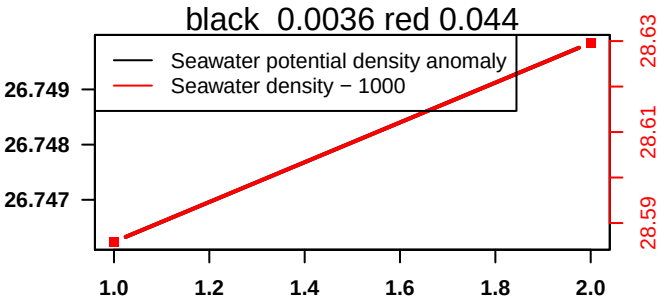

lovbio010b_092_01_06.txt
59
58
57
56
55
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

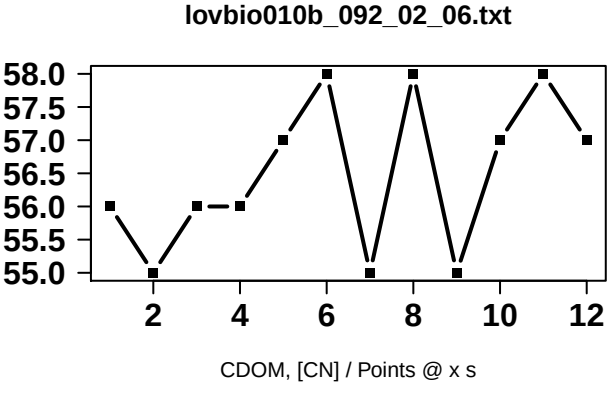

52.0
51.5
51.0
50.5
50.0
49.5
49.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

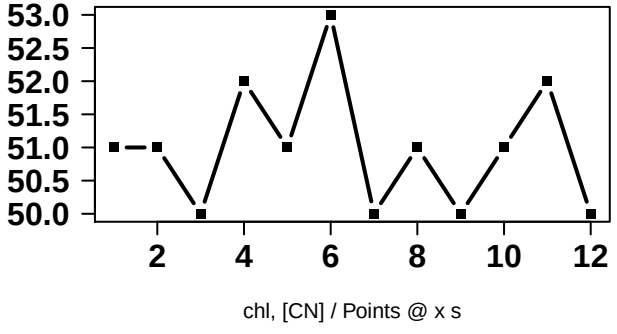

nb days: 0 freq: 0 min
120
115
110
105
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

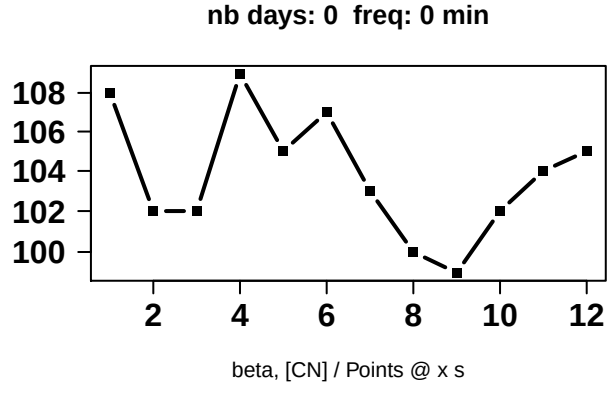

nb days: 0 freq: 0.1 min
5.3336
5.3334
5.3332
5.3330
5.3328
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

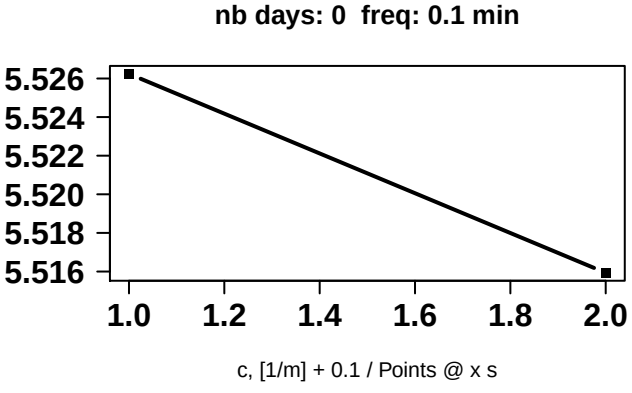

2015−04−01 17:54:45 2015−04−01 17:54:52
430
428
426
424
422
5
10
15
Pressure in

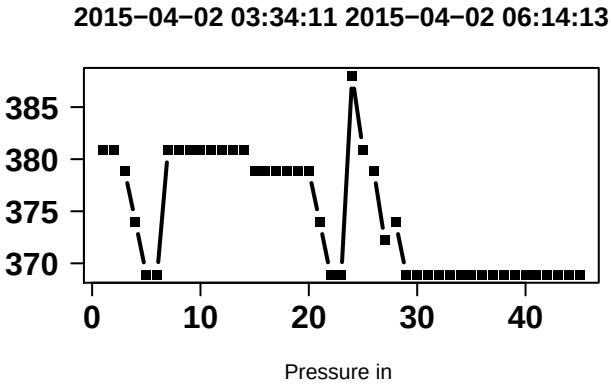

black 0.0036 red 0.044
Seawater potential density anomaly
Seawater density − 1000
26.749
26.748
26.747
28.63
28.61
28.59
1.0
1.2
1.4
1.6
1.8
2.0

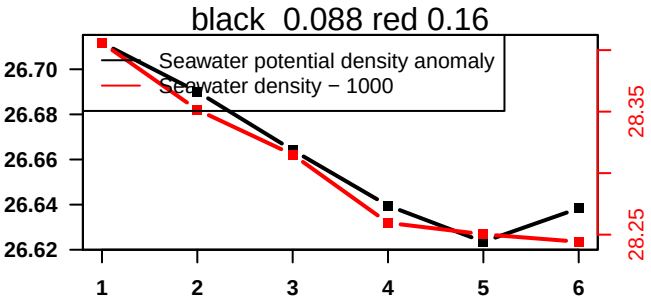

lovbio010b_092_02_06.txt
58.0
57.5
57.0
56.5
56.0
55.5
55.0
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

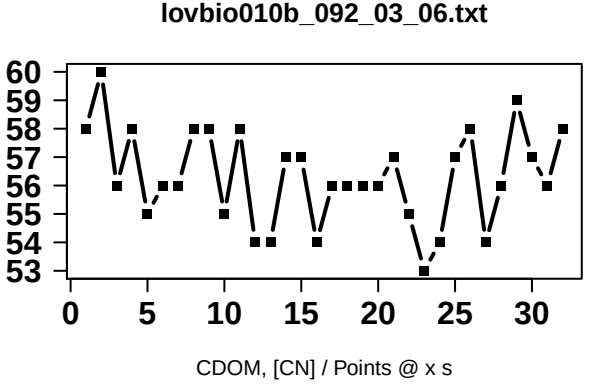

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
12
chl, [CN] / Points @ x s

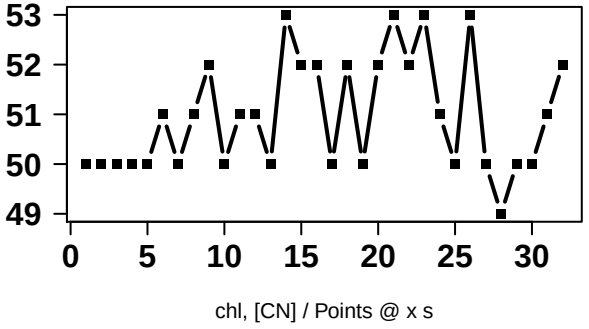

nb days: 0 freq: 0 min
108
106
104
102
100
2
4
6
8
10
12
beta, [CN] / Points @ x s

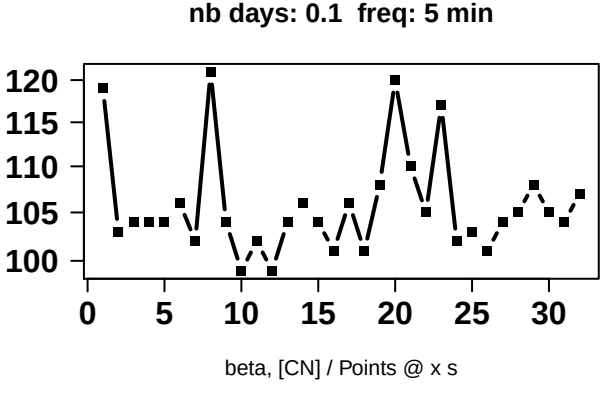

nb days: 0 freq: 0.1 min
5.526
5.524
5.522
5.520
5.518
5.516
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

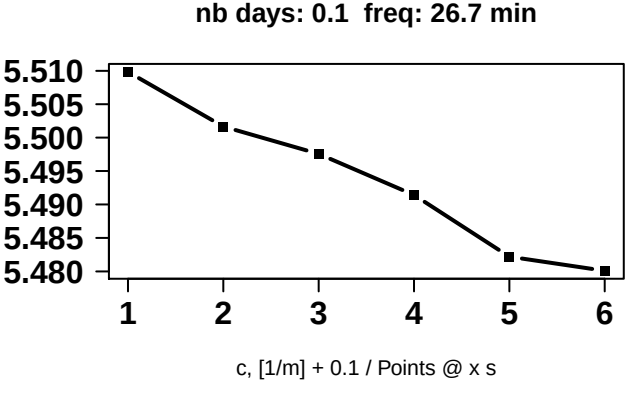

2015−04−02 03:34:11 2015−04−02 06:14:13
385
380
375
370
0
10
20
30
40
Pressure in

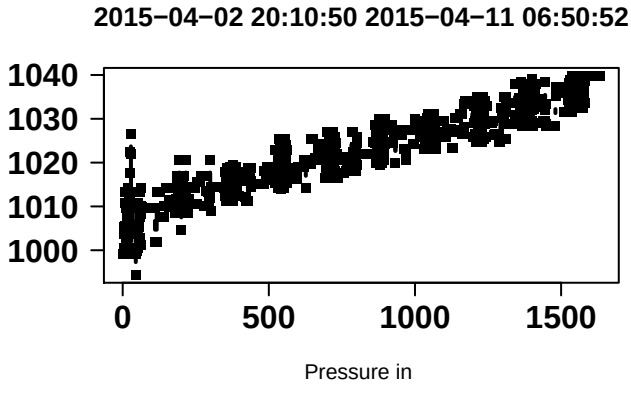

black 0.088 red 0.16
Seawater potential density anomaly
Seawater density − 1000
26.70
26.68
26.66
26.64
26.62
28.35
28.25
1
2
3
4
5
6

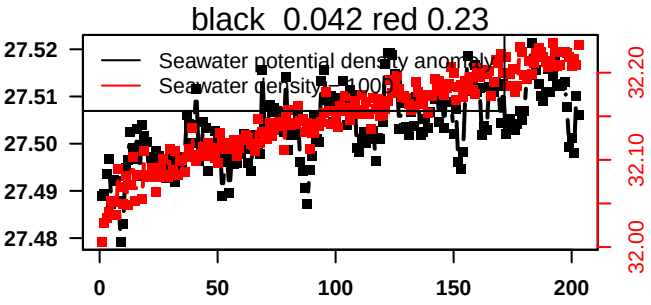

lovbio010b_092_03_06.txt
60
59
58
57
56
55
54
53
0
5
10
15
20
25
30
CDOM, [CN] / Points @ x s

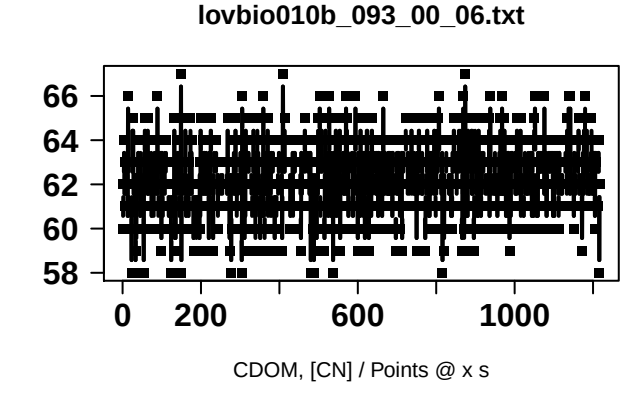

53
52
51
50
49
0
5
10
15
20
25
30
chl, [CN] / Points @ x s

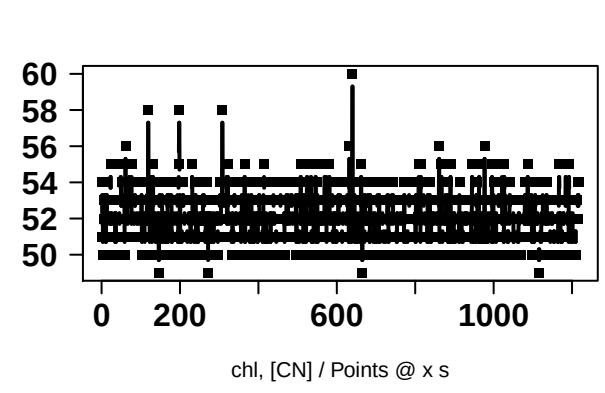

nb days: 0.1 freq: 5 min
120
115
110
105
100
0
5
10
15
20
25
30
beta, [CN] / Points @ x s

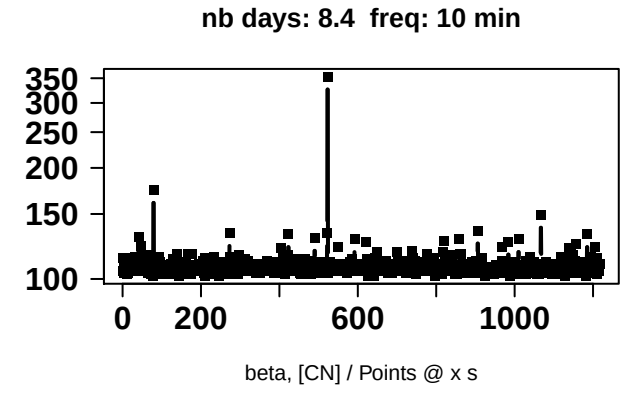

nb days: 0.1 freq: 26.7 min
5.510
5.505
5.500
5.495
5.490
5.485
5.480
1
2
3
4
5
6
c, [1/m] + 0.1 / Points @ x s

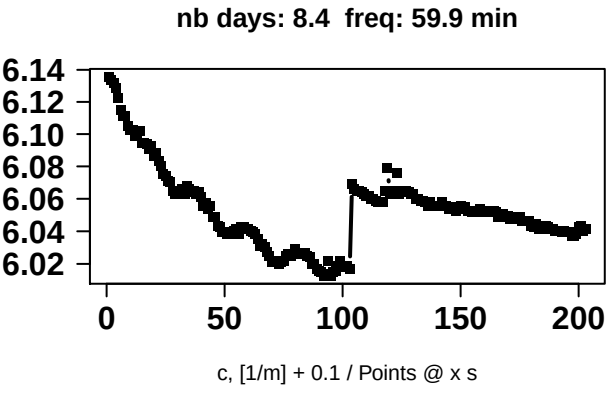

2015−04−02 20:10:50 2015−04−11 06:50:52
1040
1030
1020
1010
1000
0
500
1000
1500
Pressure in

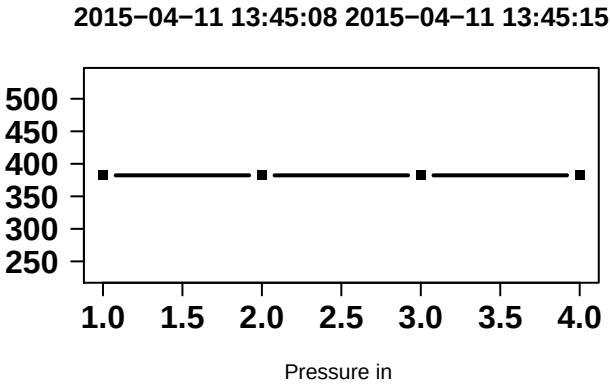

black 0.042 red 0.23
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
32.20
32.10
32.00
0
50
100
150
200

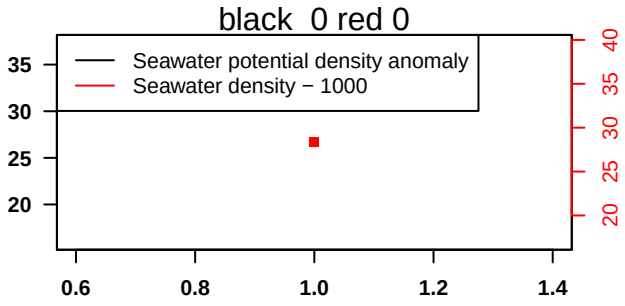

lovbio010b_093_00_06.txt
66
64
62
60
58
0
200
600
1000
CDOM, [CN] / Points @ x s

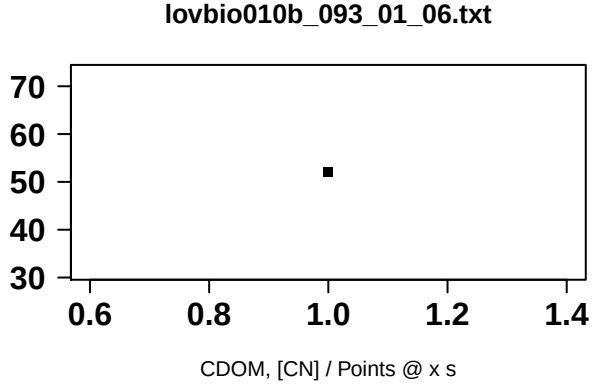

60
58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

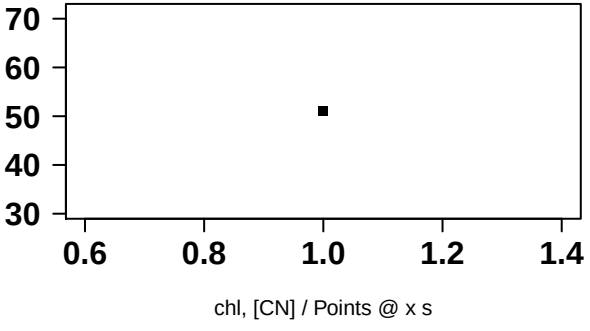

nb days: 8.4 freq: 10 min
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

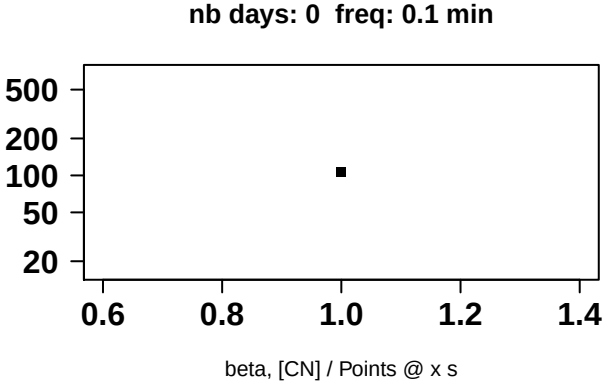

nb days: 8.4 freq: 59.9 min
6.14
6.12
6.10
6.08
6.06
6.04
6.02
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

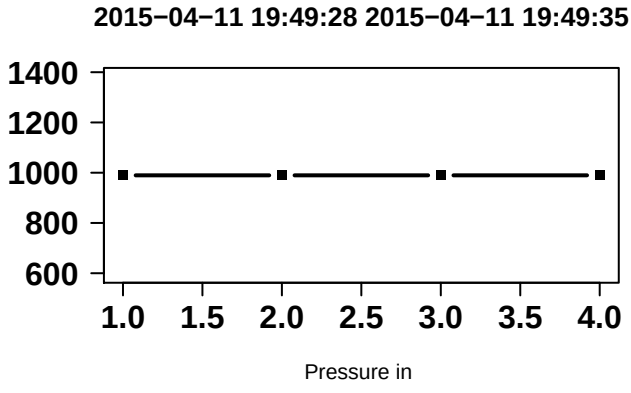

2015−04−11 13:45:08 2015−04−11 13:45:15
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

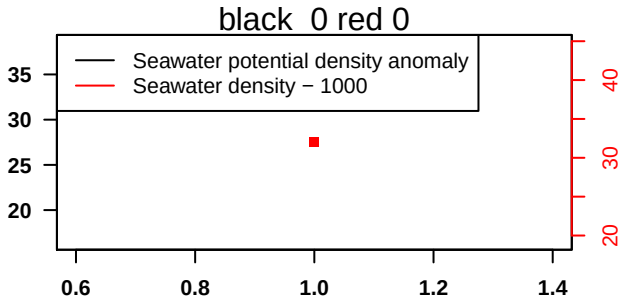

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

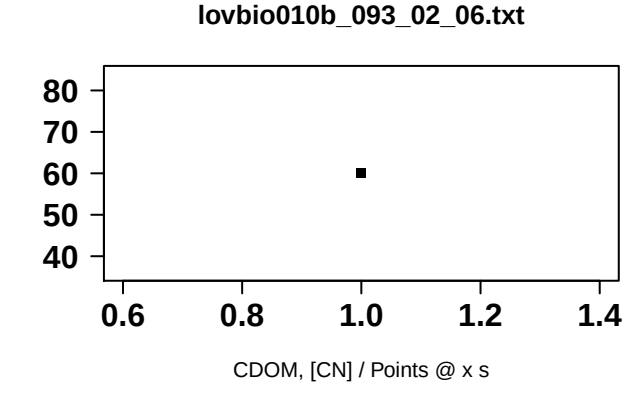

lovbio010b_093_01_06.txt
70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

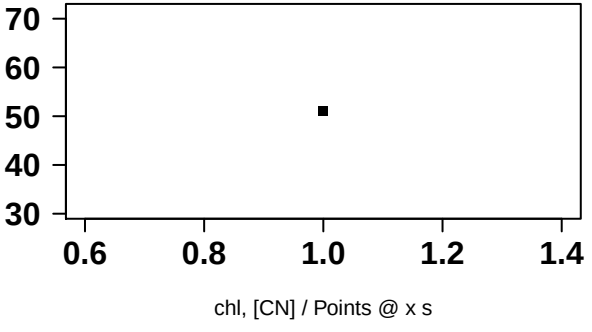

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

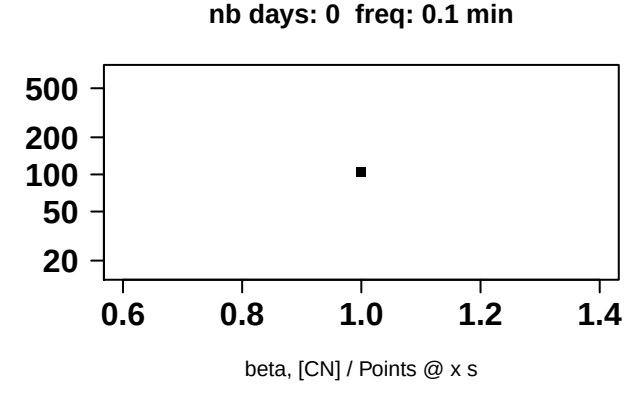

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

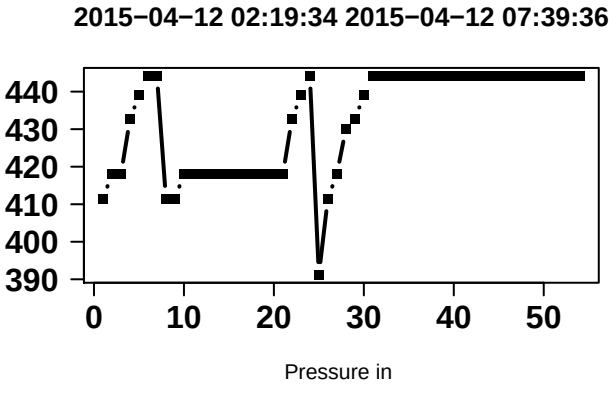

2015−04−11 19:49:28 2015−04−11 19:49:35
1400
1200
1000
800
600
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

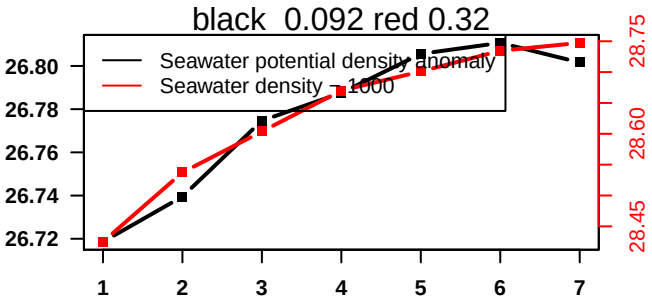

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

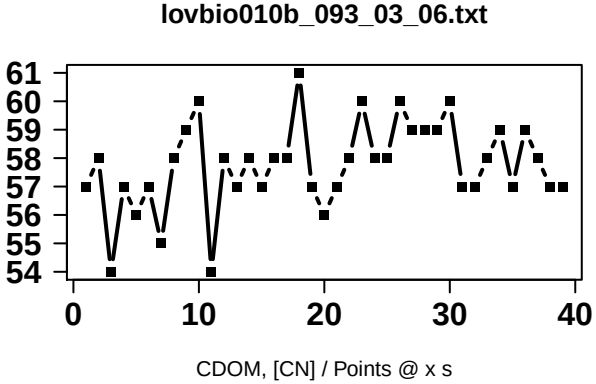

lovbio010b_093_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

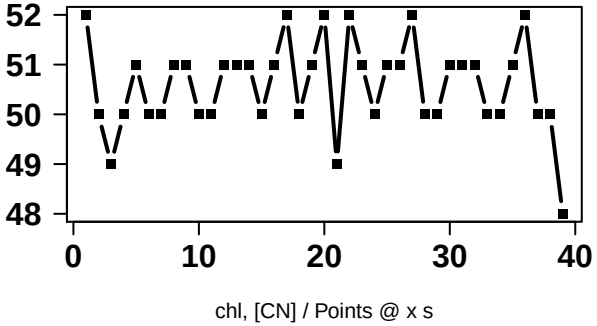

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

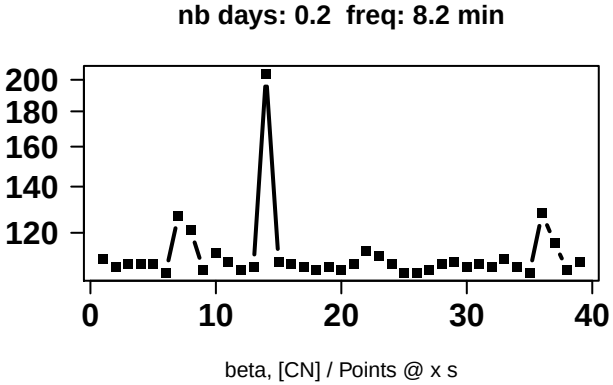

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

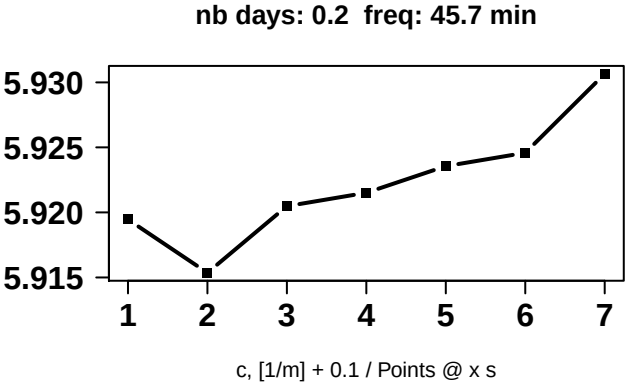

2015−04−12 02:19:34 2015−04−12 07:39:36
440
430
420
410
400
390
0
10
20
30
40
50
Pressure in

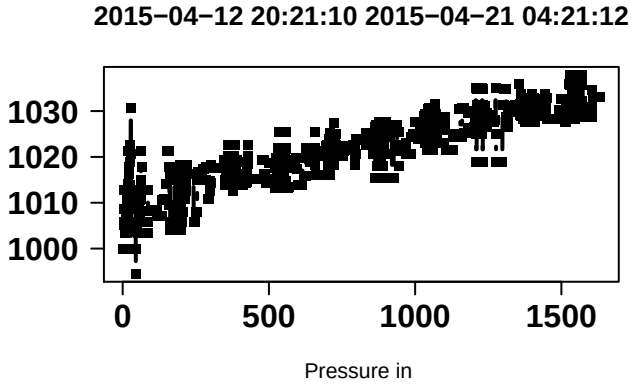

black 0.092 red 0.32
Seawater potential density anomaly
Seawater density − 1000
26.80
26.78
26.76
26.74
26.72
28.75
28.60
28.45
1
2
3
4
5
6
7

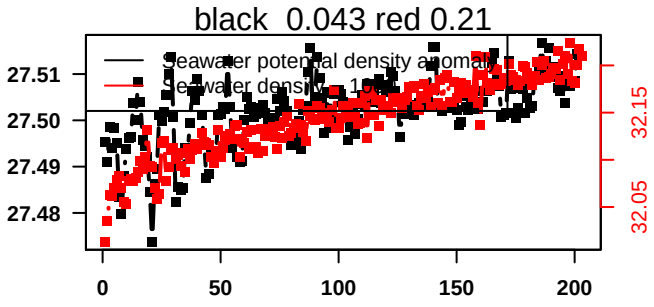

lovbio010b_093_03_06.txt
61
60
59
58
57
56
55
54
0
10
20
30
40
CDOM, [CN] / Points @ x s

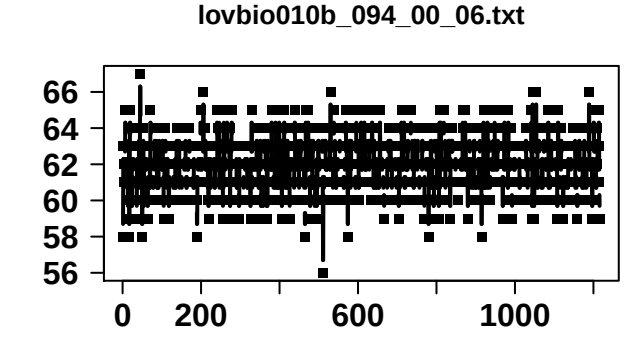

52
51
50
49
48
0
10
20
30
40
chl, [CN] / Points @ x s

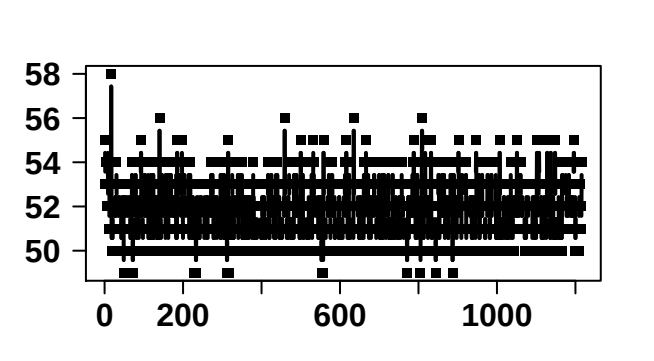

nb days: 0.2 freq: 8.2 min
200
180
160
140
120
0
10
20
30
40
beta, [CN] / Points @ x s

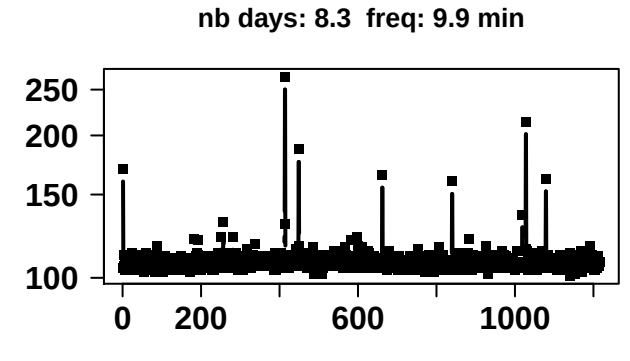

nb days: 0.2 freq: 45.7 min
5.930
5.925
5.920
5.915
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

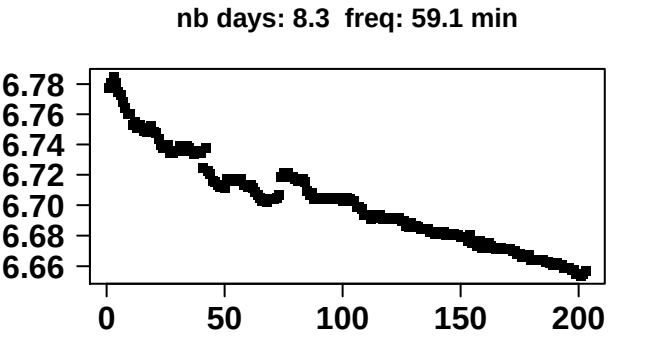

2015−04−12 20:21:10 2015−04−21 04:21:12
1030
1020
1010
1000
0
500
1000
1500
Pressure in

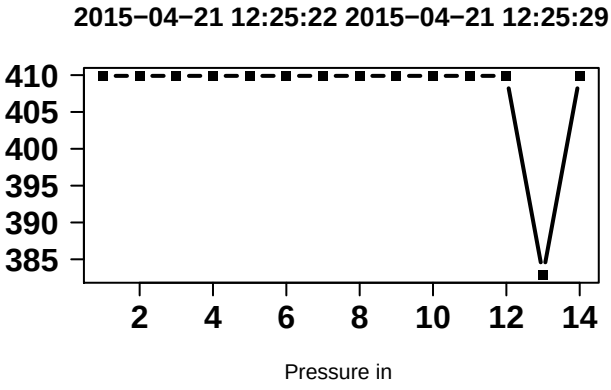

black 0.043 red 0.21
Seawater potential density anomaly
27.51
27.50
27.49
27.48
32.15
32.05
0
50
100
150
200

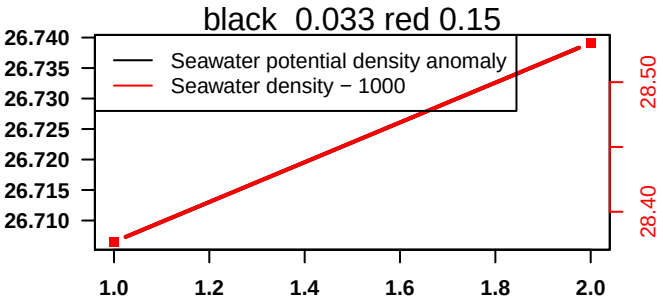

lovbio010b_094_00_06.txt
66
64
62
60
58
56
0
200
600
1000
CDOM, [CN] / Points @ x s

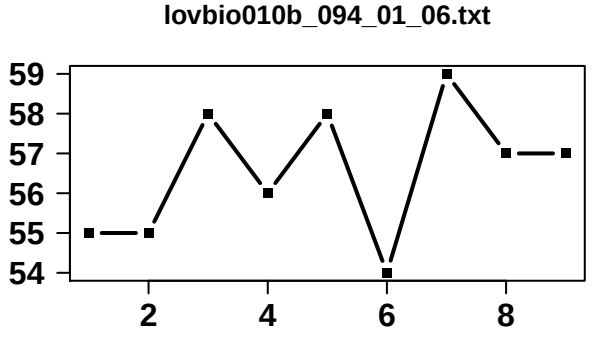

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

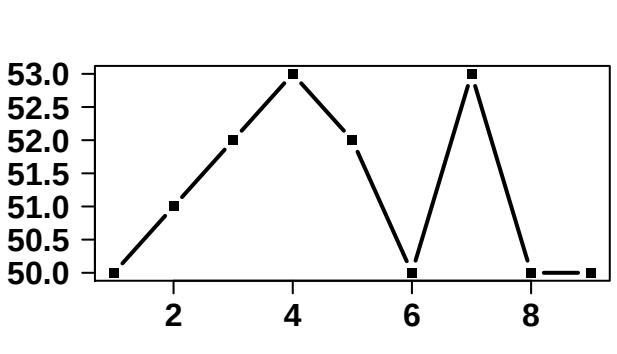

nb days: 8.3 freq: 9.9 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

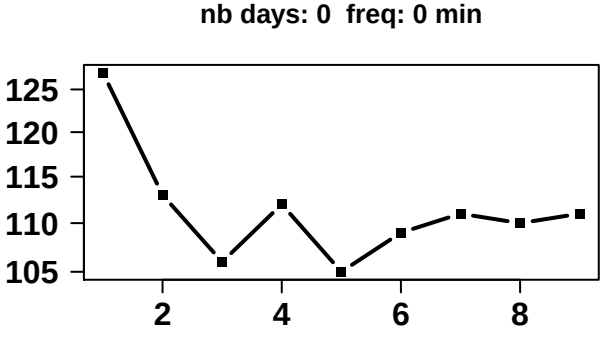

nb days: 8.3 freq: 59.1 min
6.78
6.76
6.74
6.72
6.70
6.68
6.66
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

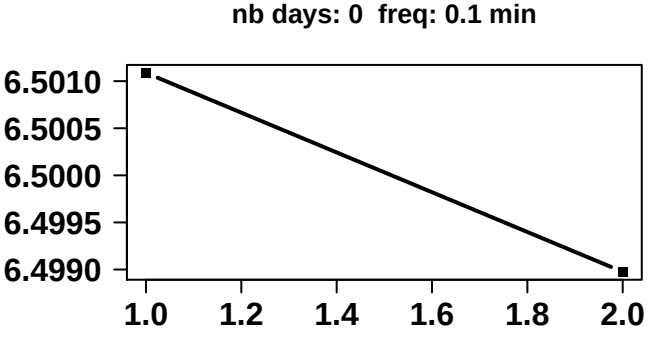

2015−04−21 12:25:22 2015−04−21 12:25:29
410
405
400
395
390
385
2
4
6
8
10
12
14
Pressure in

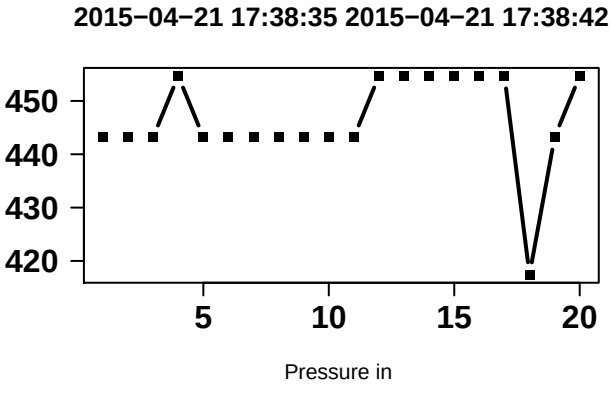

black 0.033 red 0.15
Seawater potential density anomaly
Seawater density − 1000
26.740
26.735
26.730
26.725
26.720
26.715
26.710
28.50
28.40
1.0
1.2
1.4
1.6
1.8
2.0

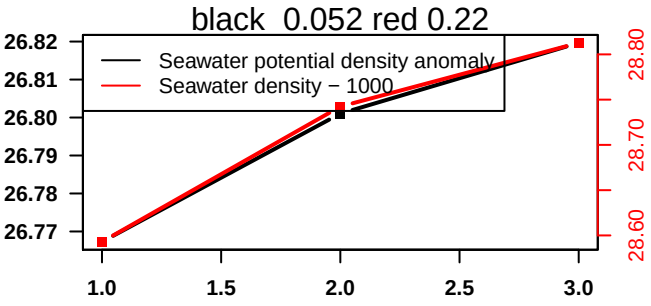

lovbio010b_094_01_06.txt
59
58
57
56
55
54
2
4
6
8
CDOM, [CN] / Points @ x s

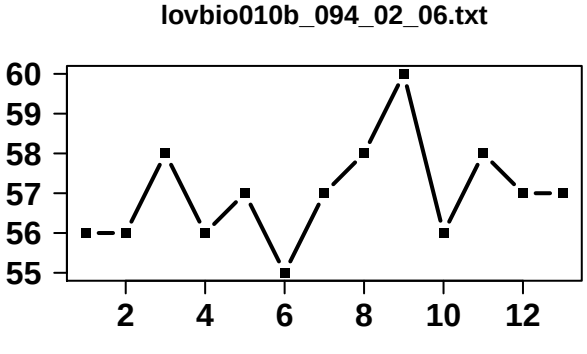

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

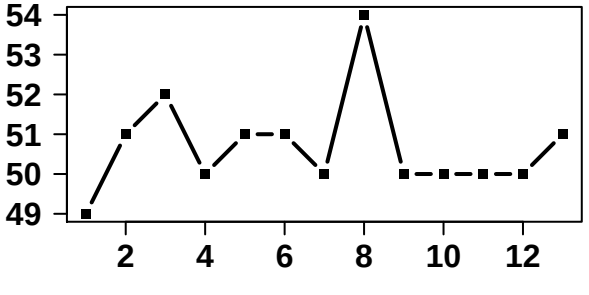

nb days: 0 freq: 0 min
125
120
115
110
105
2
4
6
8
beta, [CN] / Points @ x s

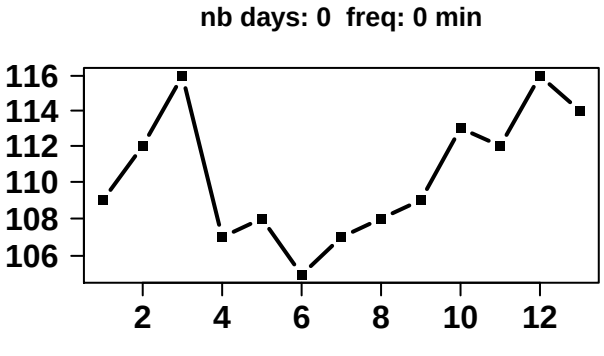

nb days: 0 freq: 0.1 min
6.5010
6.5005
6.5000
6.4995
6.4990
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

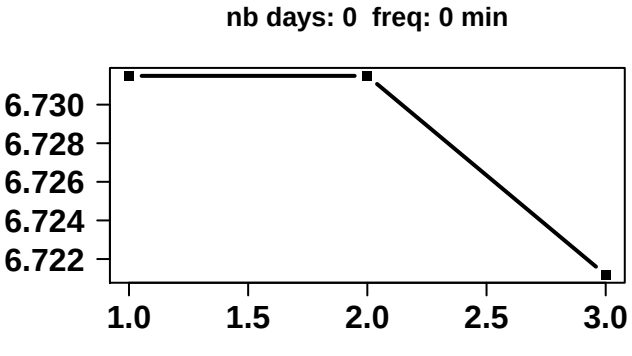

2015−04−21 17:38:35 2015−04−21 17:38:42
450
440
430
420
5
10
15
20
Pressure in

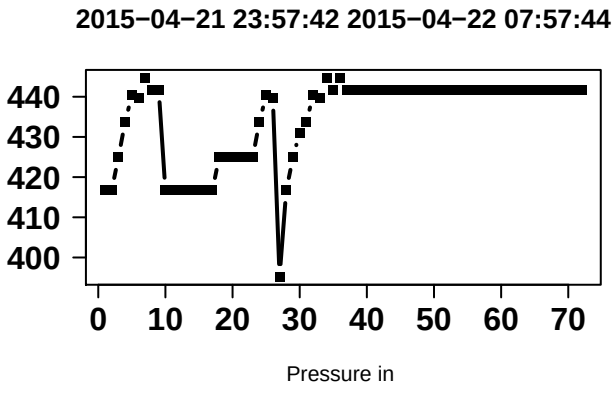

black 0.052 red 0.22
Seawater potential density anomaly
Seawater density − 1000
26.82
26.81
26.80
26.79
26.78
26.77
28.80
28.70
28.60
1.0
1.5
2.0
2.5
3.0

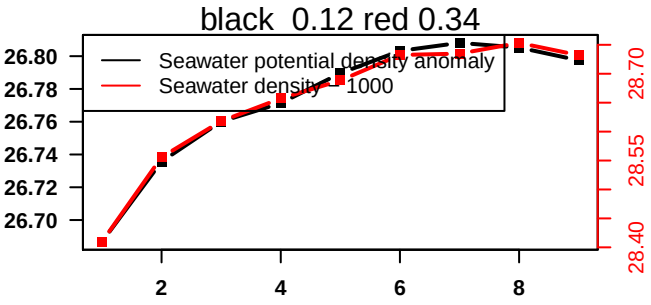

lovbio010b_094_02_06.txt
60
59
58
57
56
55
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

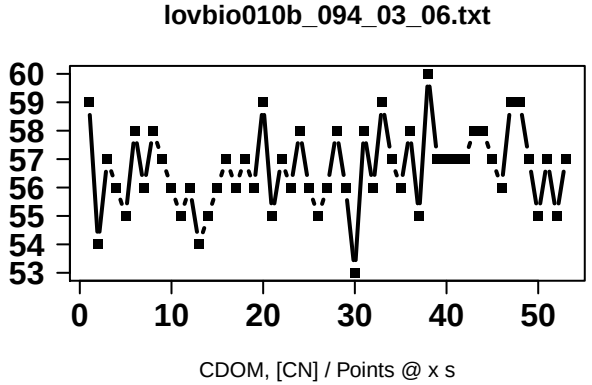

54
53
52
51
50
49
2
4
6
8
10
12
chl, [CN] / Points @ x s

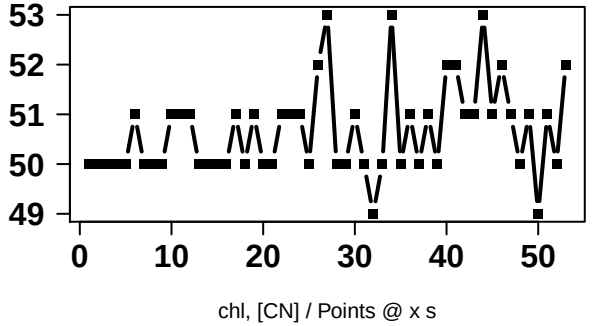

nb days: 0 freq: 0 min
116
114
112
110
108
106
2
4
6
8
10
12
beta, [CN] / Points @ x s

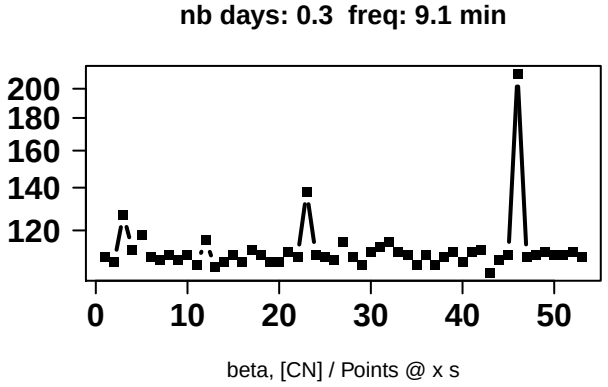

nb days: 0 freq: 0 min
6.730
6.728
6.726
6.724
6.722
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

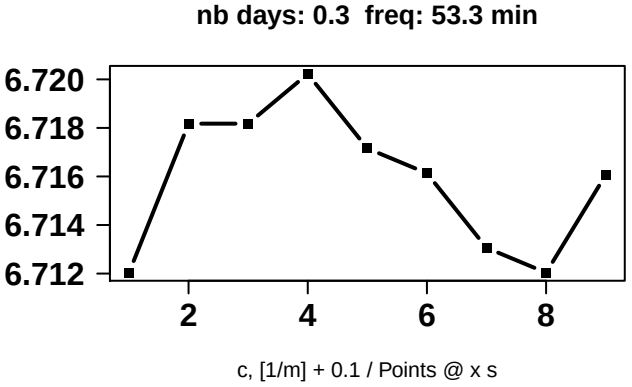

2015−04−21 23:57:42 2015−04−22 07:57:44
440
430
420
410
400
0
10
20
30
40
50
60
70
Pressure in

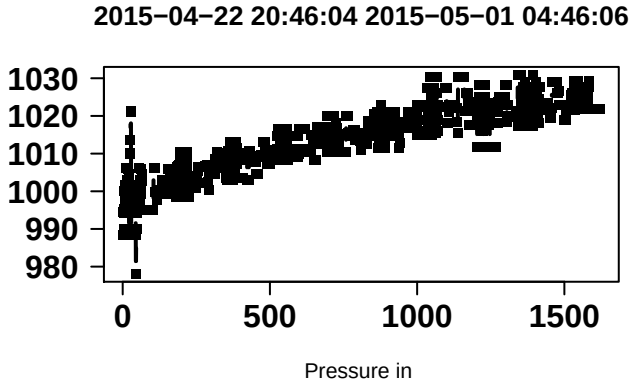

black 0.12 red 0.34
Seawater potential density anomaly
Seawater density − 1000
26.80
26.78
26.76
26.74
26.72
26.70
28.70
28.55
28.40
2
4
6
8

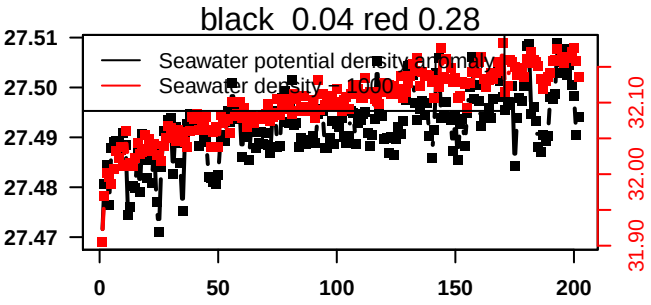

lovbio010b_094_03_06.txt
60
59
58
57
56
55
54
53
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

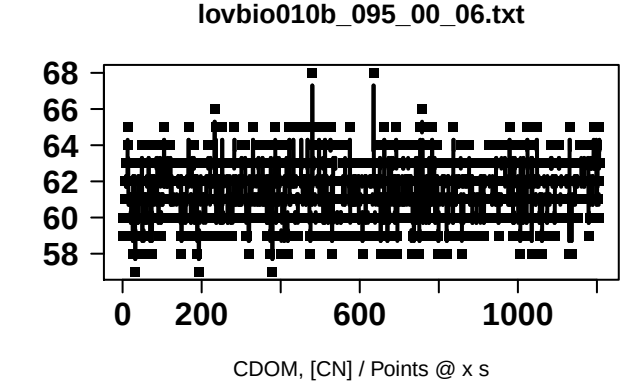

53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

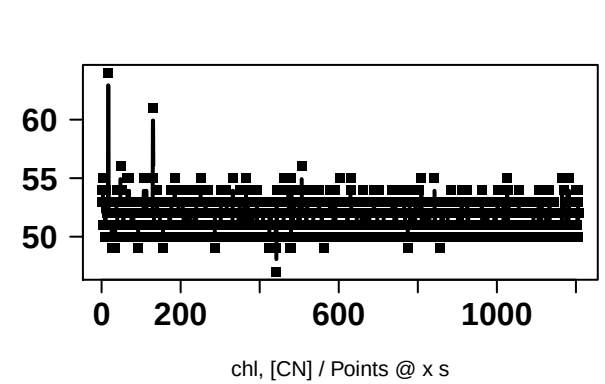

nb days: 0.3 freq: 9.1 min
200
180
160
140
120
0
10
20
30
40
50
beta, [CN] / Points @ x s

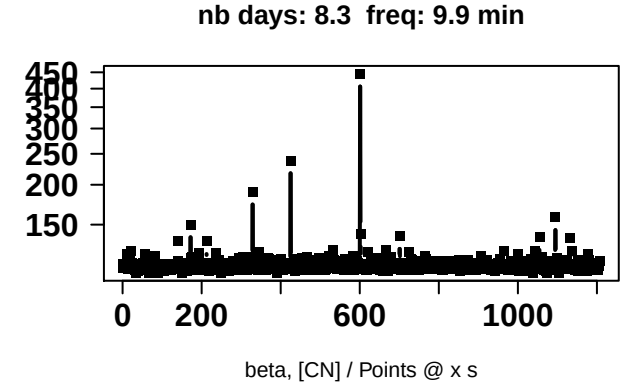

nb days: 0.3 freq: 53.3 min
6.720
6.718
6.716
6.714
6.712
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

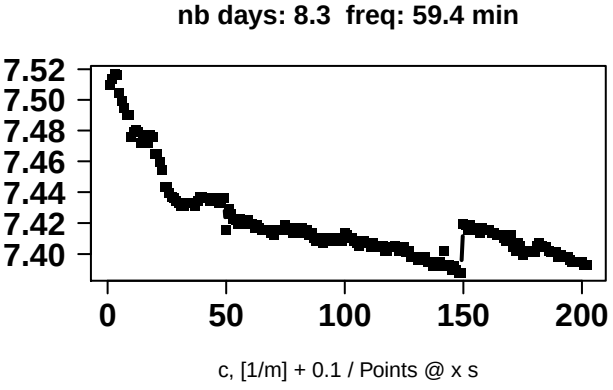

2015−04−22 20:46:04 2015−05−01 04:46:06
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

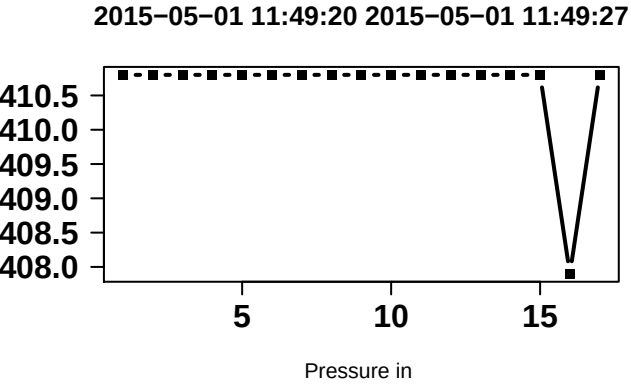

black 0.04 red 0.28
Seawater potential density anomaly
Seawater density − 1000
27.51
27.50
27.49
27.48
27.47
32.10
32.00
31.90
0
50
100
150
200

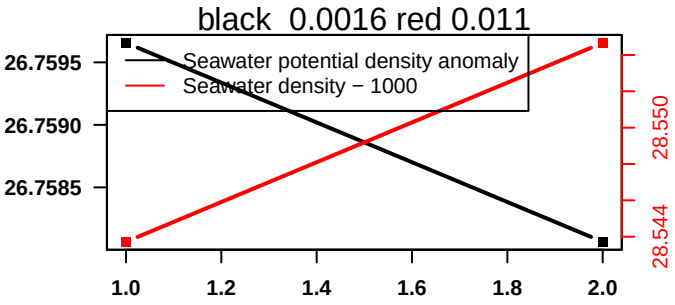

lovbio010b_095_00_06.txt
68
66
64
62
60
58
0
200
600
1000
CDOM, [CN] / Points @ x s

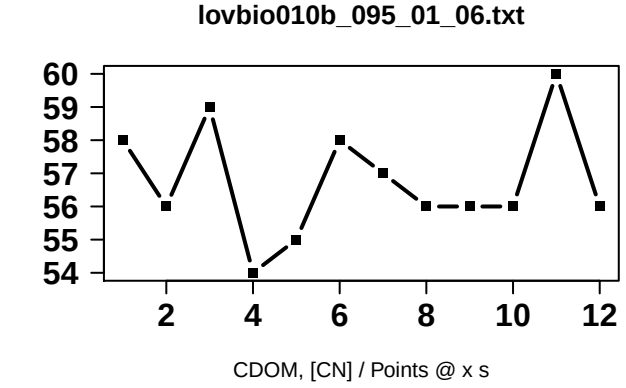

60
55
50
0
200
600
1000
chl, [CN] / Points @ x s

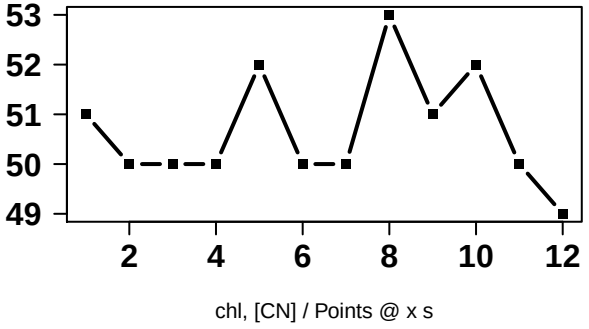

nb days: 8.3 freq: 9.9 min
450
400
350
300
250
200
150
0
200
600
1000
beta, [CN] / Points @ x s

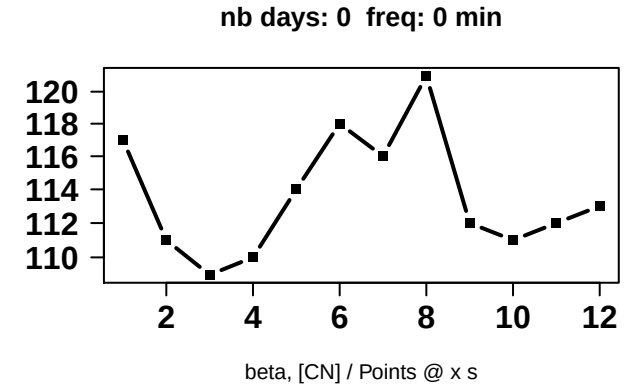

nb days: 8.3 freq: 59.4 min
7.52
7.50
7.48
7.46
7.44
7.42
7.40
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

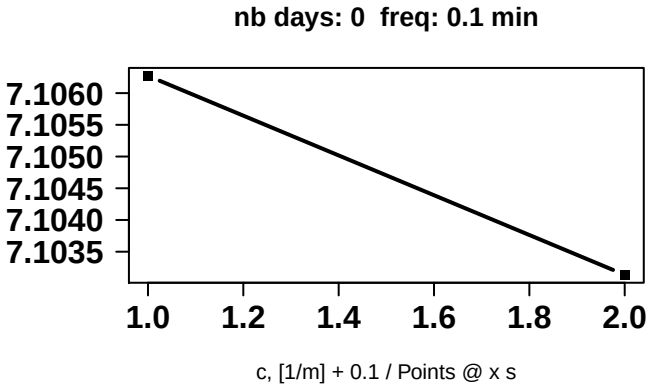

2015−05−01 11:49:20 2015−05−01 11:49:27
410.5
410.0
409.5
409.0
408.5
408.0
5
10
15
Pressure in

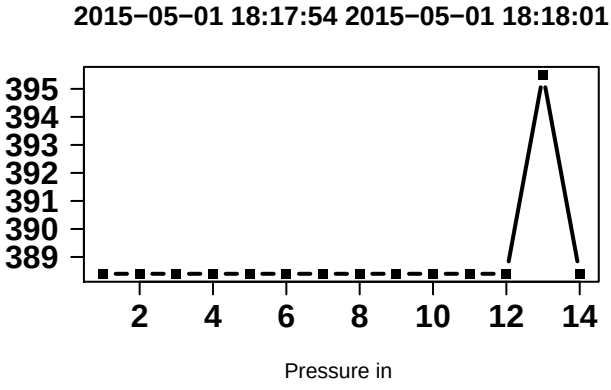

black 0.0016 red 0.011
Seawater potential density anomaly
Seawater density − 1000
26.7595
26.7590
26.7585
28.550
28.544
1.0
1.2
1.4
1.6
1.8
2.0

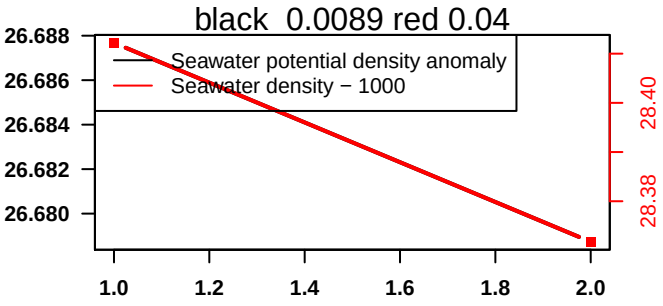

lovbio010b_095_01_06.txt
60
59
58
57
56
55
54
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

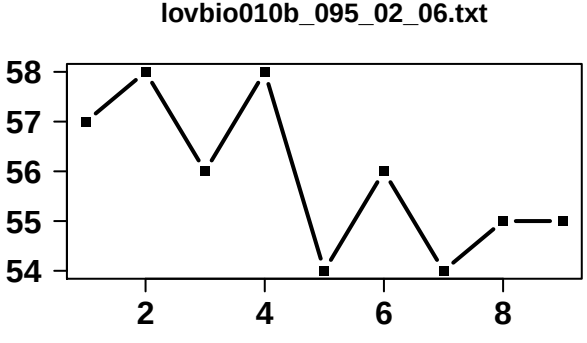

53
52
51
50
49
2
4
6
8
10
12
chl, [CN] / Points @ x s

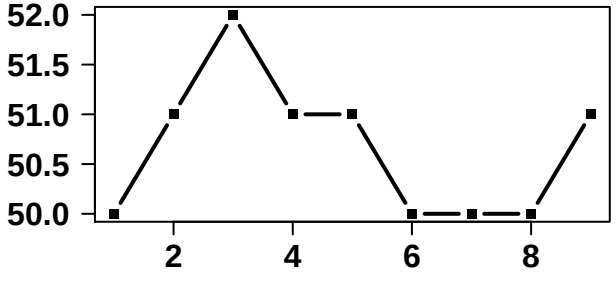

nb days: 0 freq: 0 min
120
118
116
114
112
110
2
4
6
8
10
12
beta, [CN] / Points @ x s

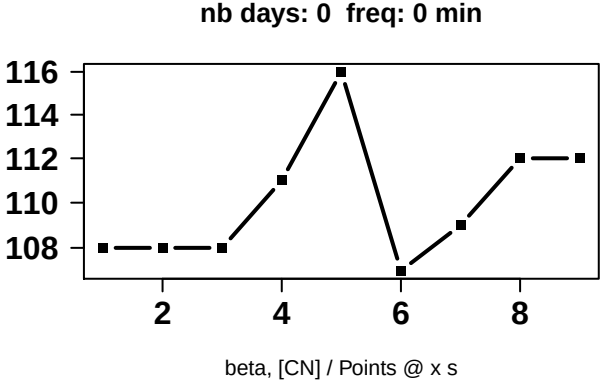

nb days: 0 freq: 0.1 min
7.1060
7.1055
7.1050
7.1045
7.1040
7.1035
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

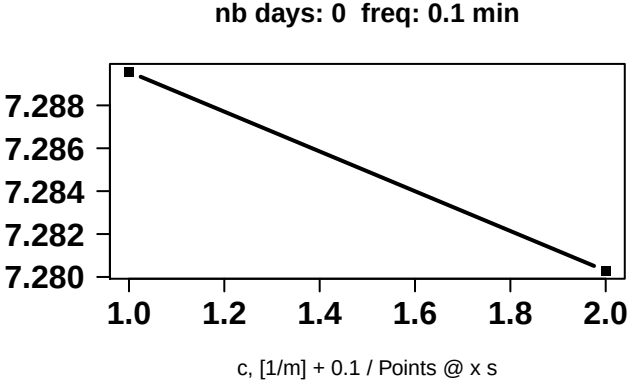

2015−05−01 18:17:54 2015−05−01 18:18:01
395
394
393
392
391
390
389
2
4
6
8
10
12
14
Pressure in

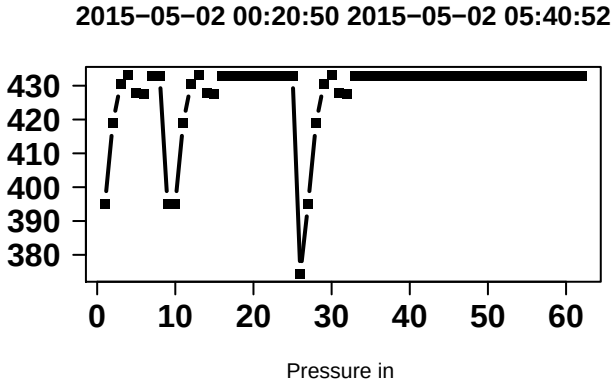

black 0.0089 red 0.04
Seawater potential density anomaly
Seawater density − 1000
26.688
26.686
26.684
26.682
26.680
28.40
28.38
1.0
1.2
1.4
1.6
1.8
2.0

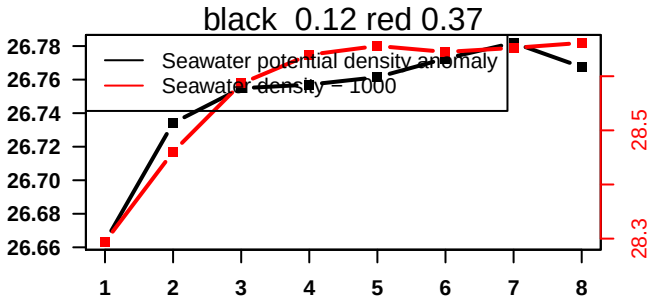

lovbio010b_095_02_06.txt
58
57
56
55
54
2
4
6
8
CDOM, [CN] / Points @ x s

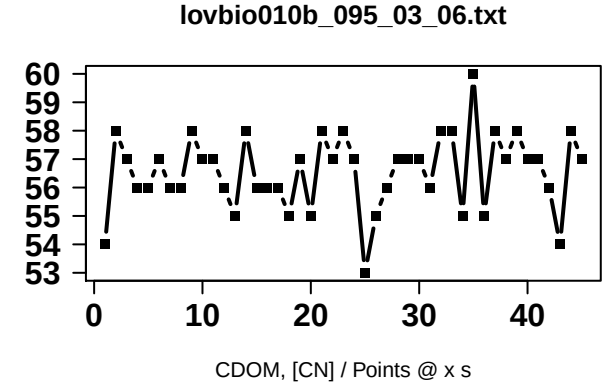

52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

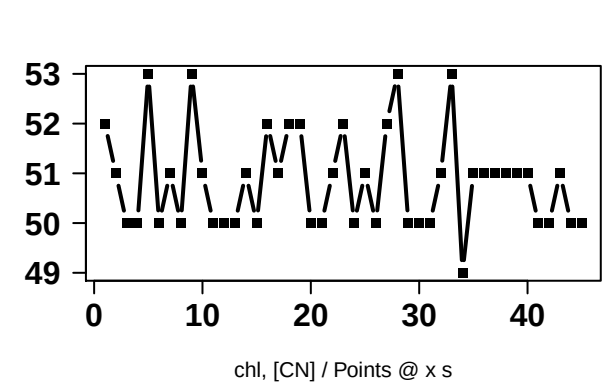

nb days: 0 freq: 0 min
116
114
112
110
108
2
4
6
8
beta, [CN] / Points @ x s

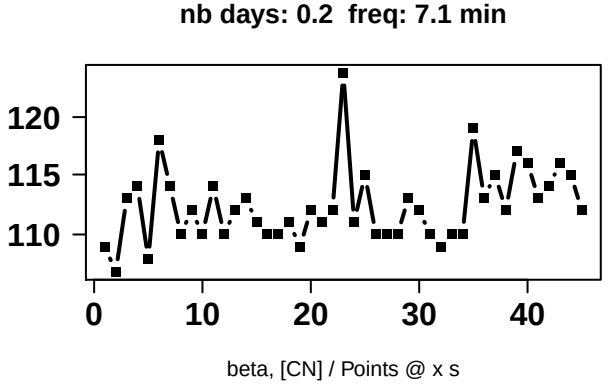

nb days: 0 freq: 0.1 min
7.288
7.286
7.284
7.282
7.280
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

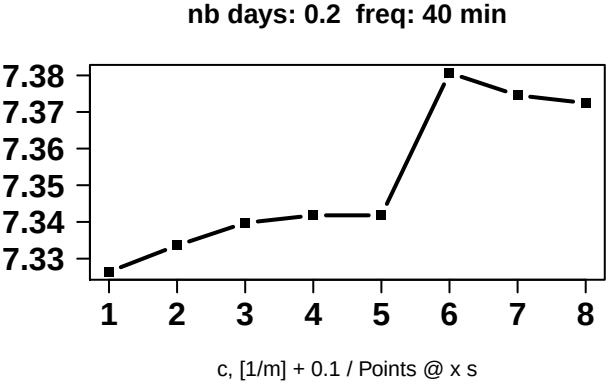

2015−05−02 00:20:50 2015−05−02 05:40:52
430
420
410
400
390
380
0
10
20
30
40
50
60
Pressure in

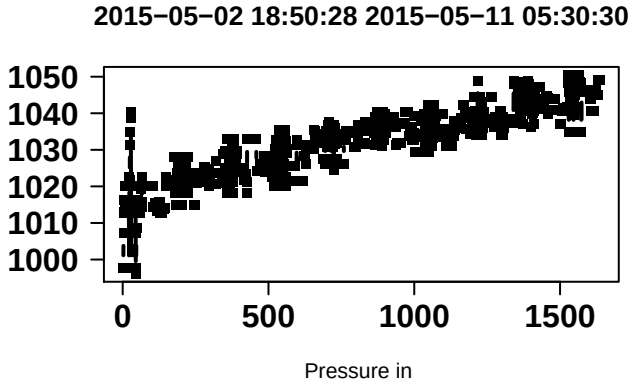

black 0.12 red 0.37
Seawater potential density anomaly
Seawater density − 1000
26.78
26.76
26.74
26.72
26.70
26.68
26.66
28.5
28.3
1
2
3
4
5
6
7
8

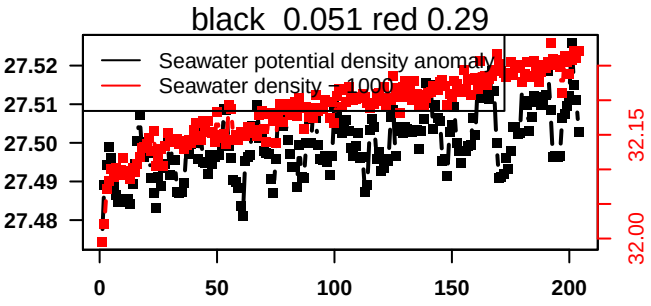

lovbio010b_095_03_06.txt
60
59
58
57
56
55
54
53
0
10
20
30
40
CDOM, [CN] / Points @ x s

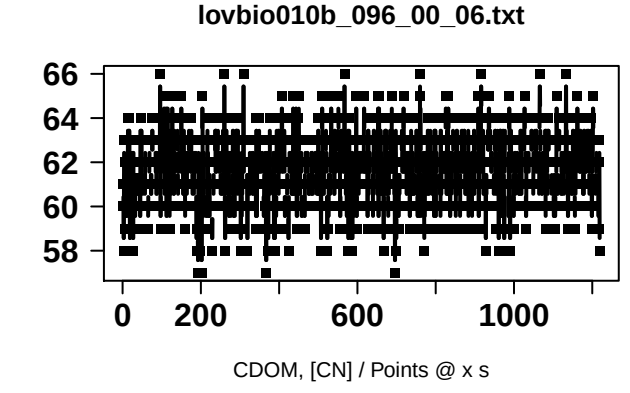

53
52
51
50
49
0
10
20
30
40
chl, [CN] / Points @ x s

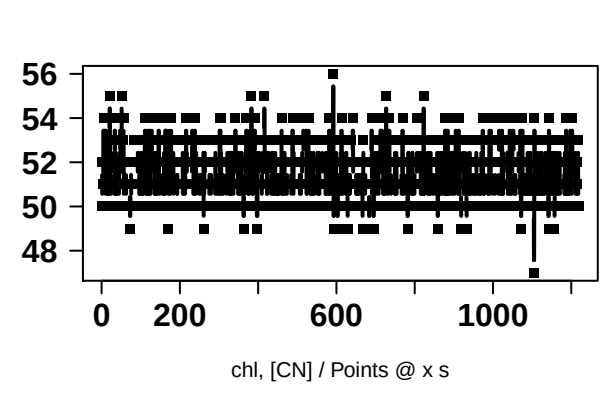

nb days: 0.2 freq: 7.1 min
120
115
110
0
10
20
30
40
beta, [CN] / Points @ x s

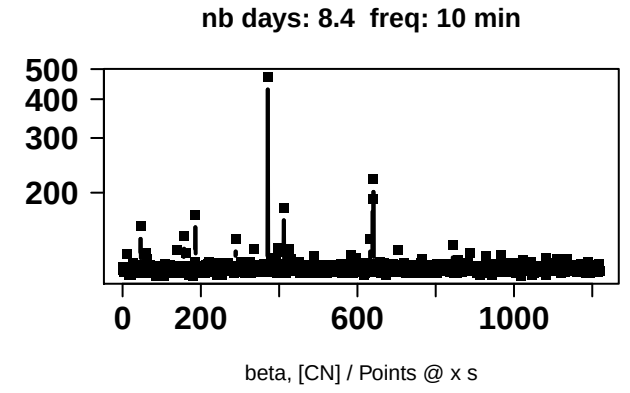

nb days: 0.2 freq: 40 min
7.38
7.37
7.36
7.35
7.34
7.33
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

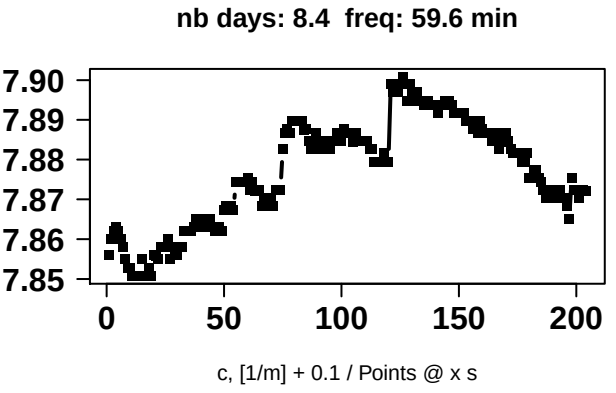

2015−05−02 18:50:28 2015−05−11 05:30:30
1050
1040
1030
1020
1010
1000
0
500
1000
1500
Pressure in

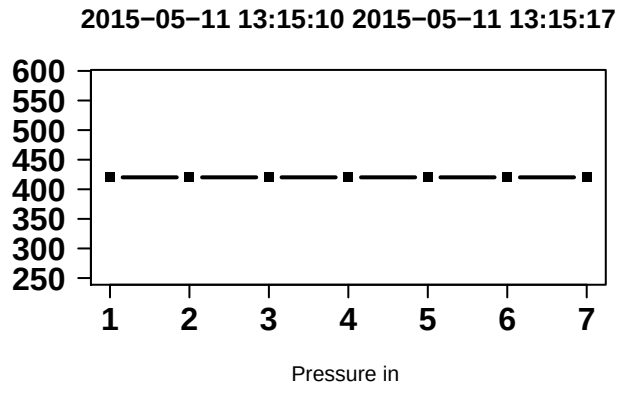

black 0.051 red 0.29
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
32.15
32.00
0
50
100
150
200

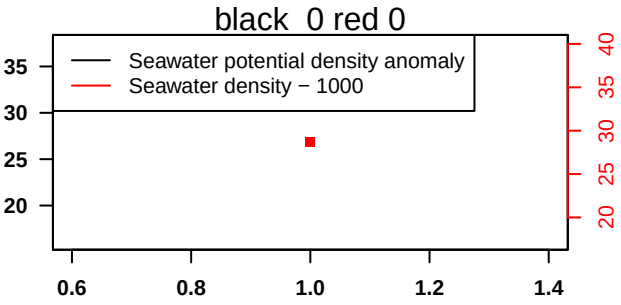

lovbio010b_096_00_06.txt
66
64
62
60
58
0
200
600
1000
CDOM, [CN] / Points @ x s

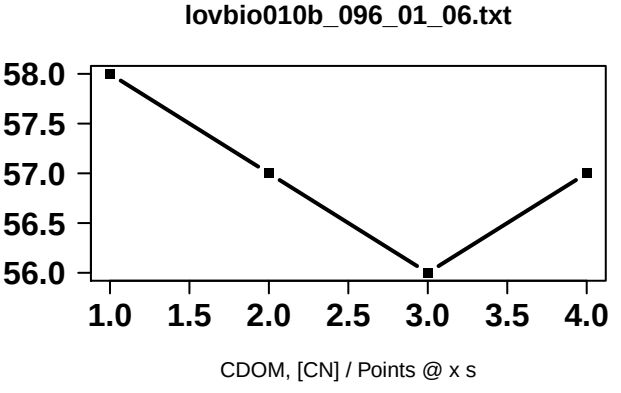

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

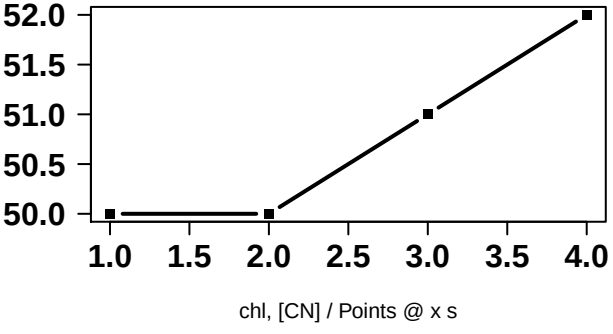

nb days: 8.4 freq: 10 min
500
400
300
200
0
200
600
1000
beta, [CN] / Points @ x s

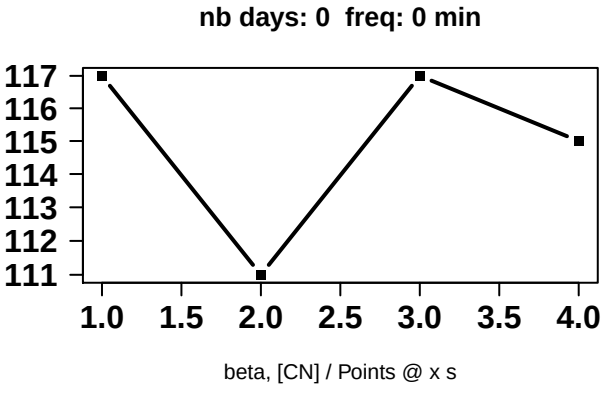

nb days: 8.4 freq: 59.6 min
7.90
7.89
7.88
7.87
7.86
7.85
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

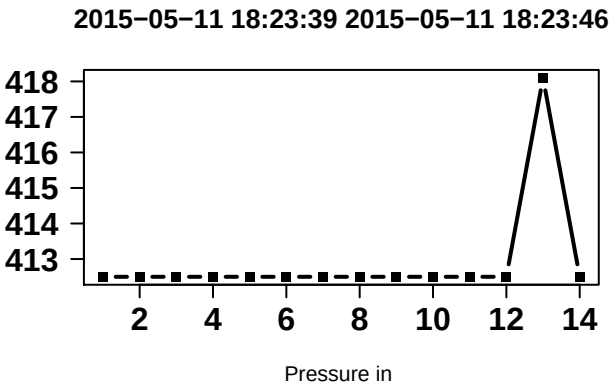

2015−05−11 13:15:10 2015−05−11 13:15:17
600
550
500
450
400
350
300
250
1
2
3
4
5
6
7
Pressure in

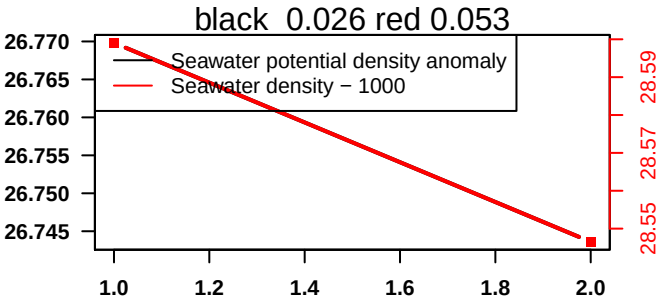

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

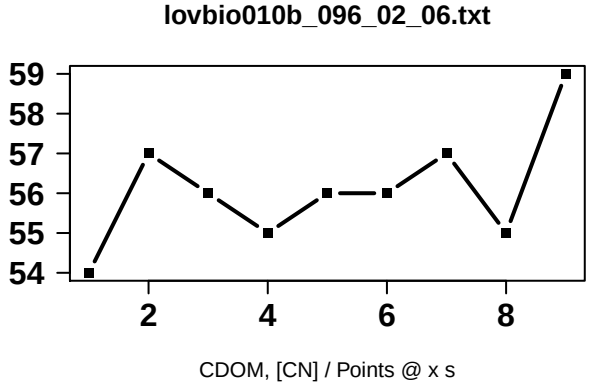

lovbio010b_096_01_06.txt
58.0
57.5
57.0
56.5
56.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

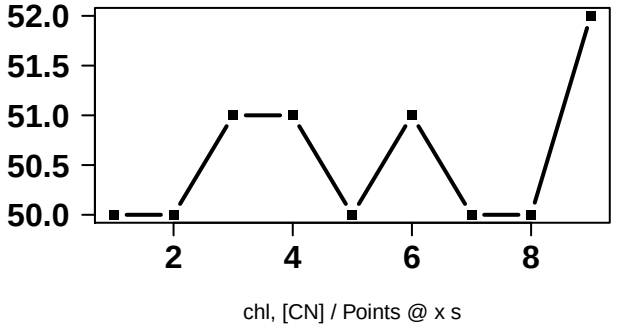

52.0
51.5
51.0
50.5
50.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

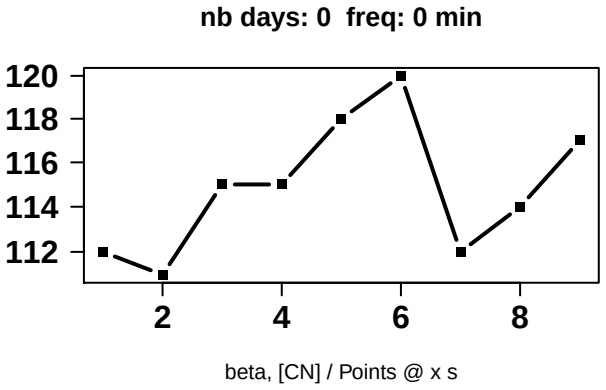

nb days: 0 freq: 0 min
117
116
115
114
113
112
111
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

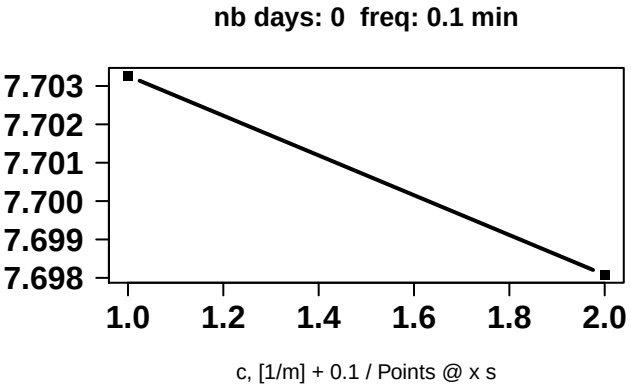

2015−05−11 18:23:39 2015−05−11 18:23:46
418
417
416
415
414
413
2
4
6
8
10
12
14
Pressure in

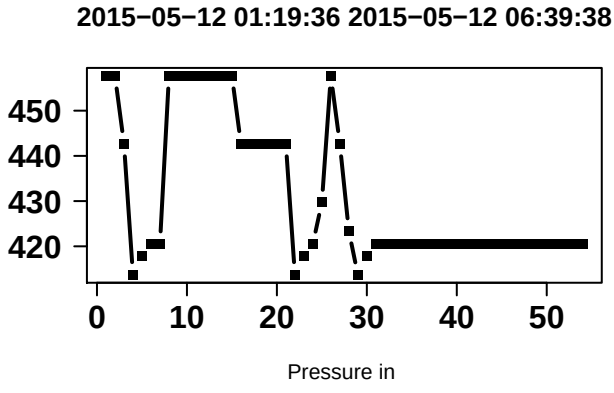

black 0.026 red 0.053
Seawater potential density anomaly
Seawater density − 1000
26.770
26.765
26.760
26.755
26.750
26.745
28.59
28.57
28.55
1.0
1.2
1.4
1.6
1.8
2.0

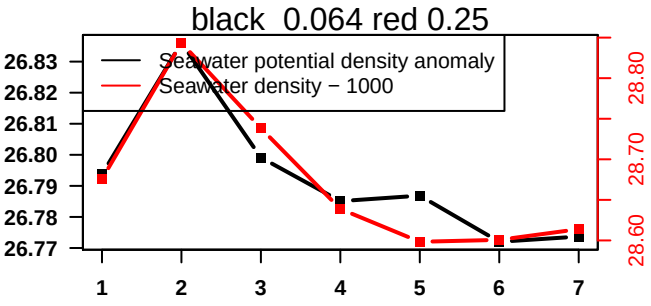

lovbio010b_096_02_06.txt
59
58
57
56
55
54
2
4
6
8
CDOM, [CN] / Points @ x s

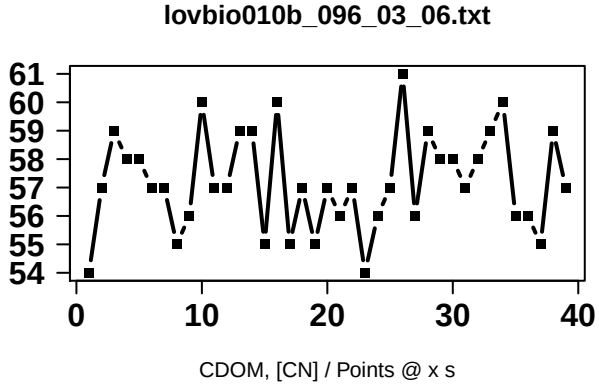

52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

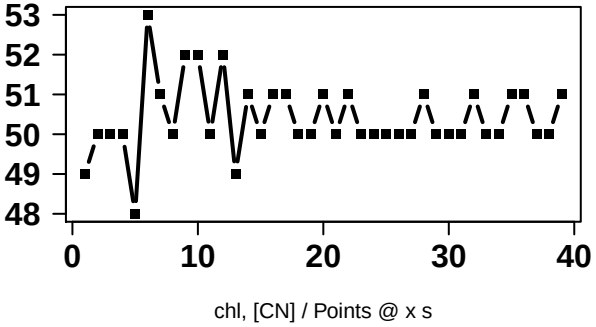

nb days: 0 freq: 0 min
120
118
116
114
112
2
4
6
8
beta, [CN] / Points @ x s

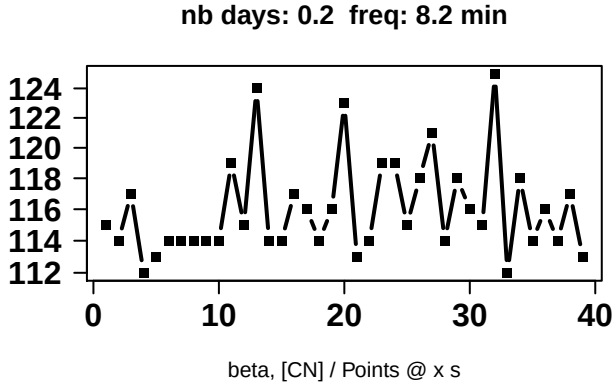

nb days: 0 freq: 0.1 min
7.703
7.702
7.701
7.700
7.699
7.698
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

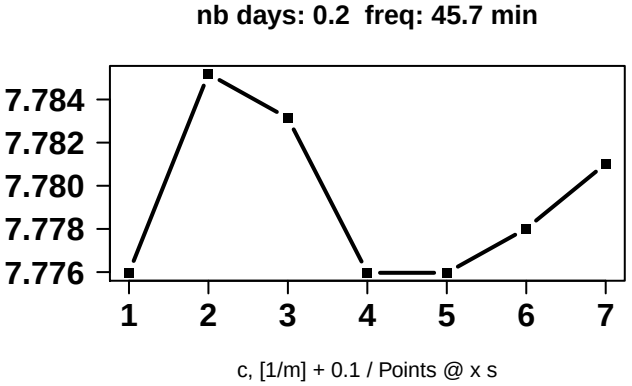

2015−05−12 01:19:36 2015−05−12 06:39:38
450
440
430
420
0
10
20
30
40
50
Pressure in

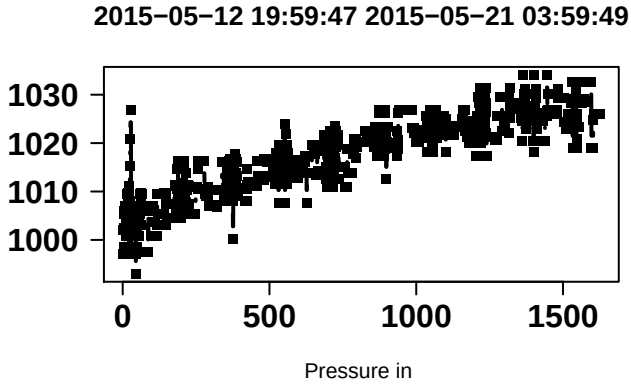

black 0.064 red 0.25
Seawater potential density anomaly
Seawater density − 1000
26.83
26.82
26.81
26.80
26.79
26.78
26.77
28.80
28.70
28.60
1
2
3
4
5
6
7

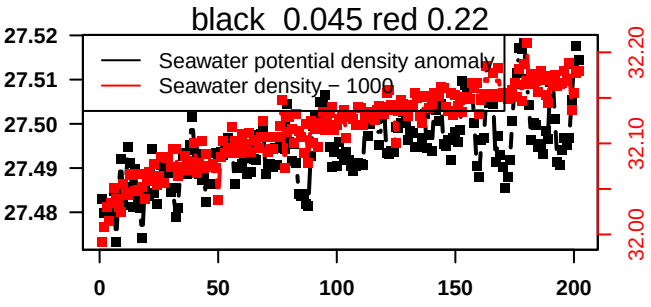

lovbio010b_096_03_06.txt
61
60
59
58
57
56
55
54
0
10
20
30
40
CDOM, [CN] / Points @ x s

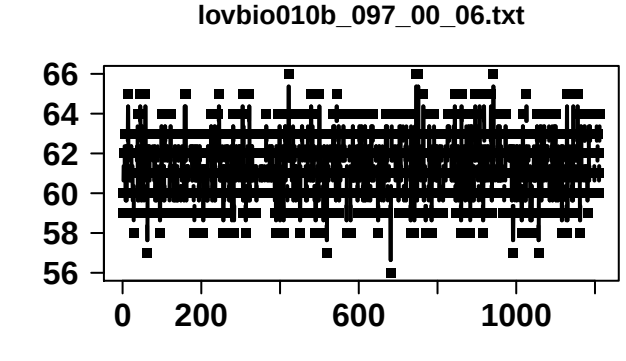

53
52
51
50
49
48
0
10
20
30
40
chl, [CN] / Points @ x s

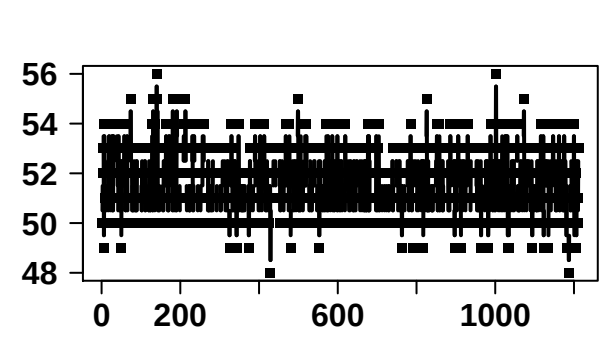

nb days: 0.2 freq: 8.2 min
124
122
120
118
116
114
112
0
10
20
30
40
beta, [CN] / Points @ x s

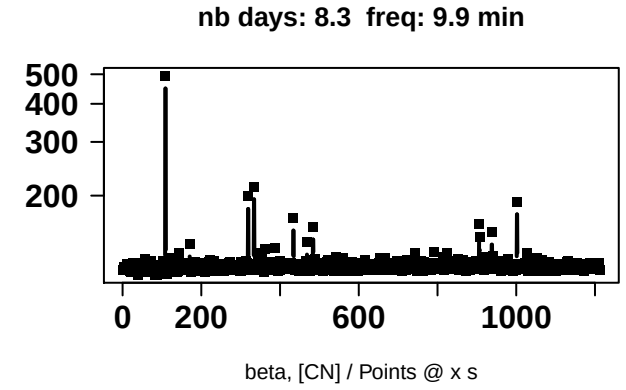

nb days: 0.2 freq: 45.7 min
7.784
7.782
7.780
7.778
7.776
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

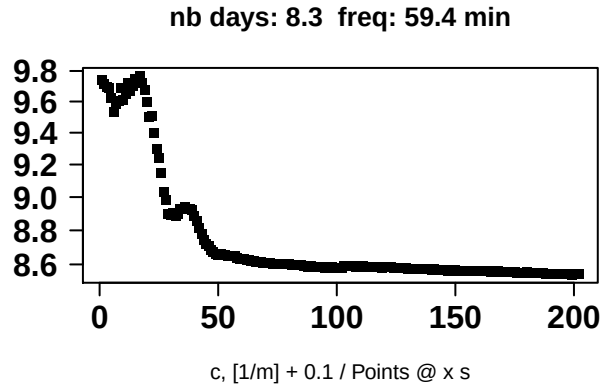

2015−05−12 19:59:47 2015−05−21 03:59:49
1030
1020
1010
1000
0
500
1000
1500
Pressure in

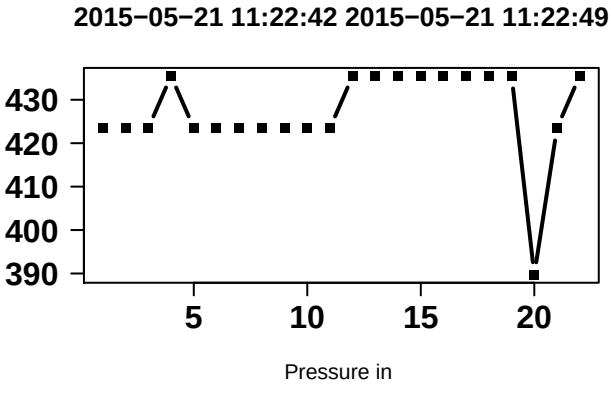

black 0.045 red 0.22
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
32.20
32.10
32.00
0
50
100
150
200

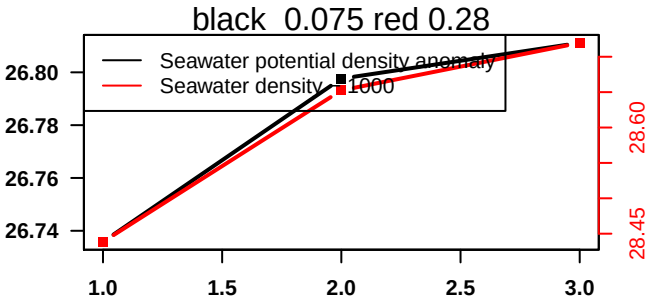

lovbio010b_097_00_06.txt
66
64
62
60
58
56
0
200
600
1000
CDOM, [CN] / Points @ x s

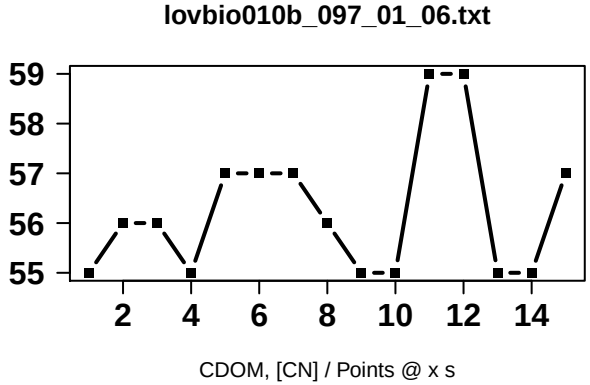

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

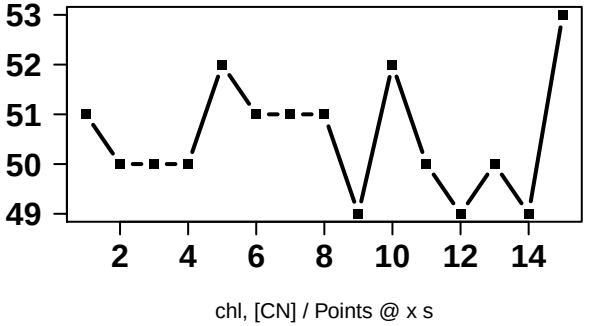

nb days: 8.3 freq: 9.9 min
500
400
300
200
0
200
600
1000
beta, [CN] / Points @ x s

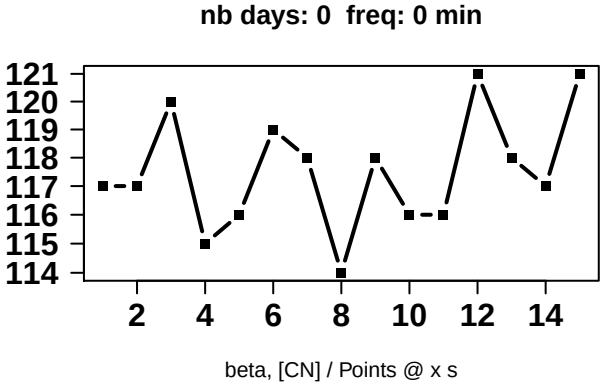

nb days: 8.3 freq: 59.4 min
9.8
9.6
9.4
9.2
9.0
8.8
8.6
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

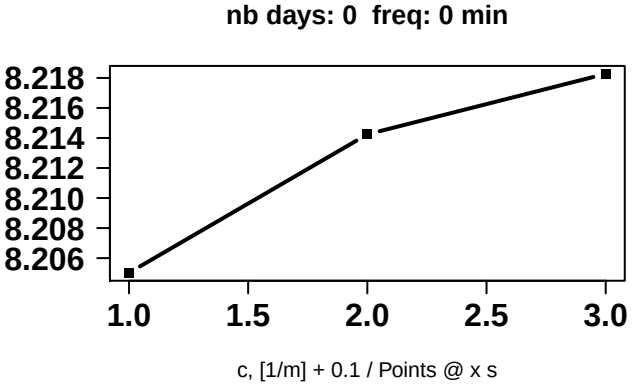

2015−05−21 11:22:42 2015−05−21 11:22:49
430
420
410
400
390
5
10
15
20
Pressure in

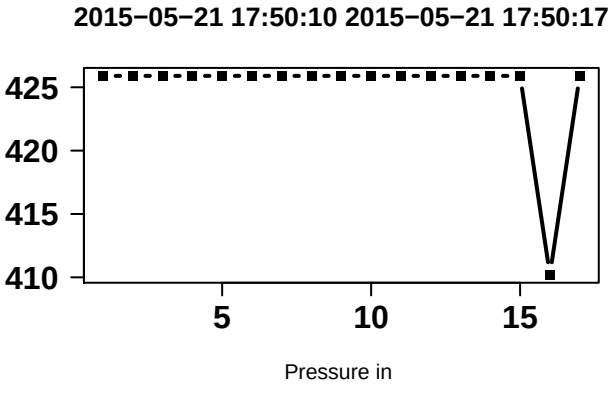

black 0.075 red 0.28
Seawater potential density anomaly
Seawater density − 1000
26.80
26.78
26.76
26.74
1.0
1.5
2.0
2.5
3.0
28.60
28.45

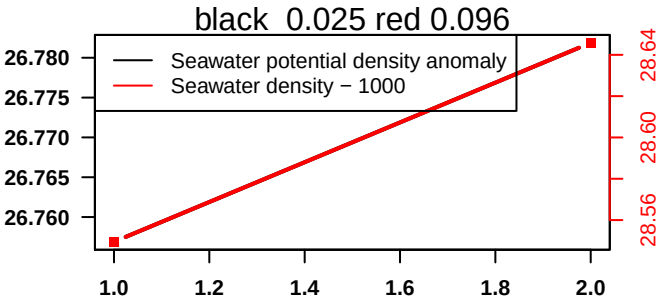

lovbio010b_097_01_06.txt
59
58
57
56
55
2
4
6
8
10
12
14
CDOM, [CN] / Points @ x s

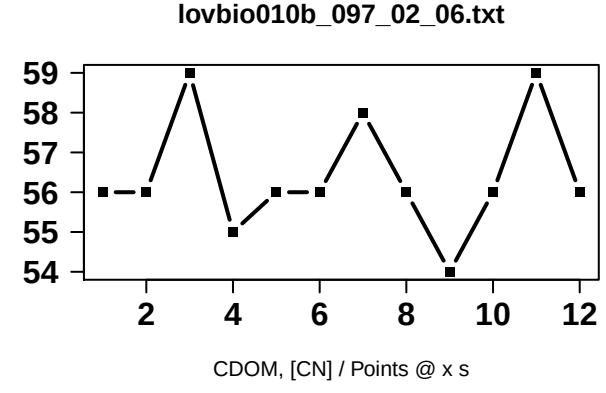

53
52
51
50
49
2
4
6
8
10
12
14
chl, [CN] / Points @ x s

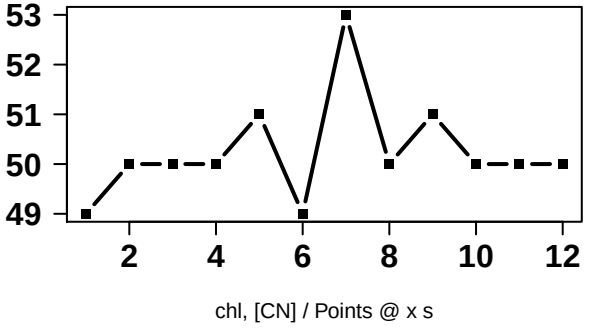

nb days: 0 freq: 0 min
121
120
119
118
117
116
115
114
2
4
6
8
10
12
14
beta, [CN] / Points @ x s

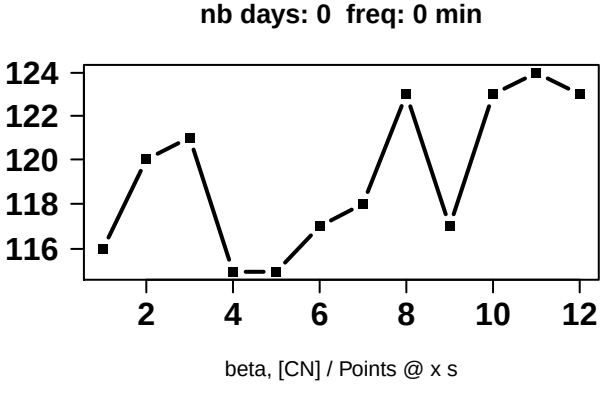

nb days: 0 freq: 0 min
8.218
8.216
8.214
8.212
8.210
8.208
8.206
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

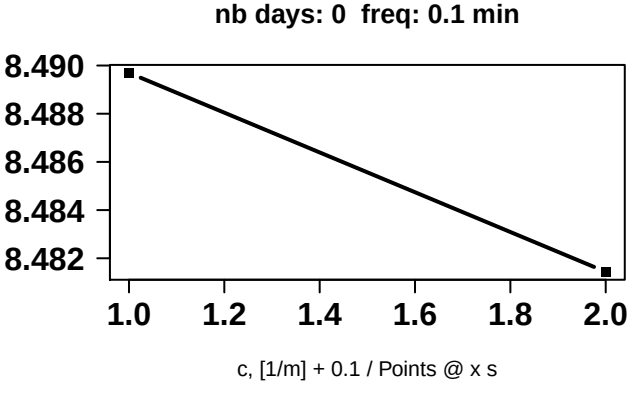

2015−05−21 17:50:10 2015−05−21 17:50:17
425
420
415
410
5
10
15
Pressure in

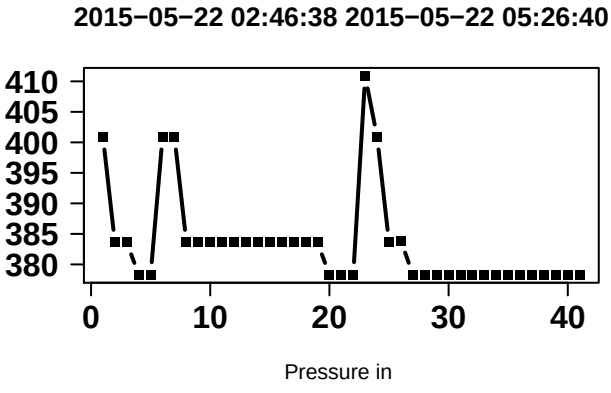

black 0.025 red 0.096
Seawater potential density anomaly
Seawater density − 1000
26.780
26.775
26.770
26.765
26.760
28.64
28.60
28.56
1.0
1.2
1.4
1.6
1.8
2.0

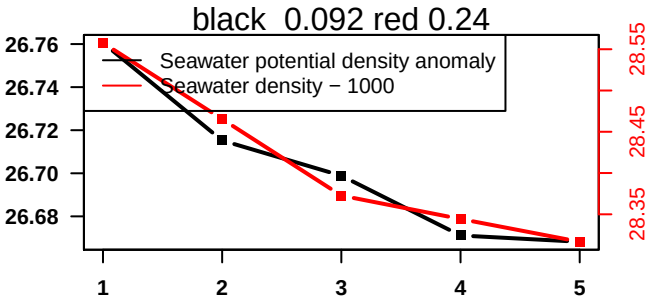

lovbio010b_097_02_06.txt
59
58
57
56
55
54
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

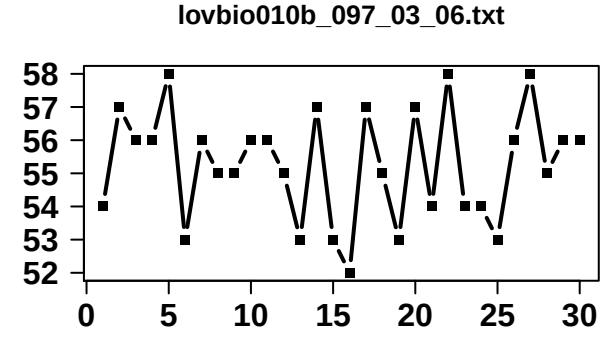

53
52
51
50
49
2
4
6
8
10
12
chl, [CN] / Points @ x s

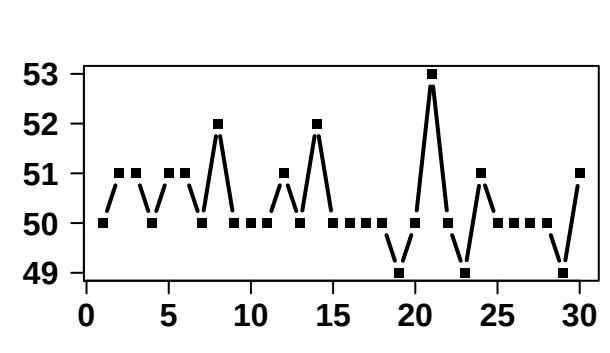

nb days: 0 freq: 0 min
124
122
120
118
116
2
4
6
8
10
12
beta, [CN] / Points @ x s

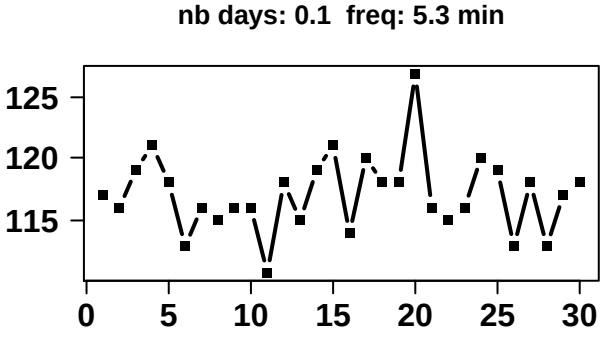

nb days: 0 freq: 0.1 min
8.490
8.488
8.486
8.484
8.482
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

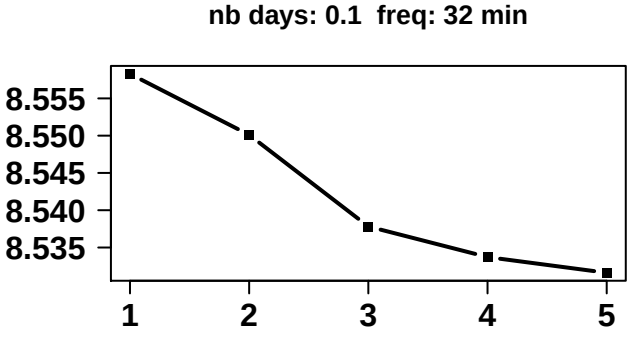

2015−05−22 02:46:38 2015−05−22 05:26:40
410
405
400
395
390
385
380
0
10
20
30
40
Pressure in

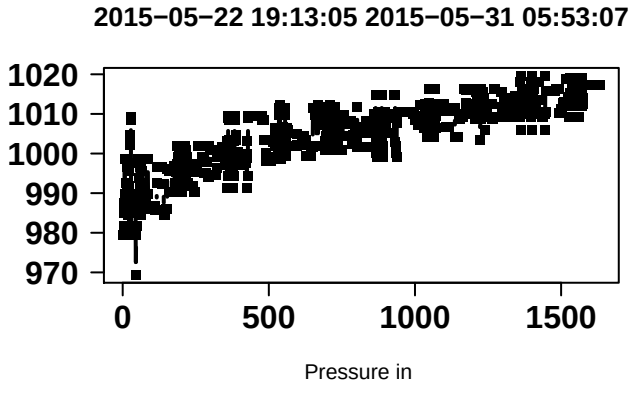

black 0.092 red 0.24
Seawater potential density anomaly
Seawater density − 1000
26.76
26.74
26.72
26.70
26.68
28.55
28.45
28.35
1
2
3
4
5

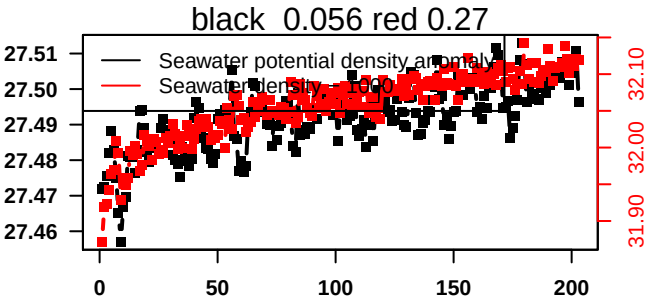

lovbio010b_097_03_06.txt
58
57
56
55
54
53
52
0
5
10
15
20
25
30
CDOM, [CN] / Points @ x s

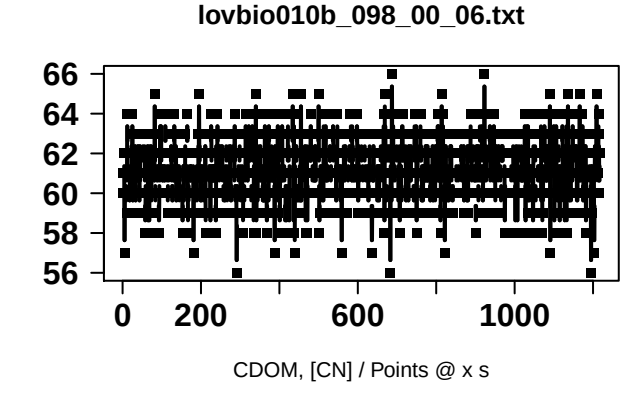

53
52
51
50
49
0
5
10
15
20
25
30
chl, [CN] / Points @ x s

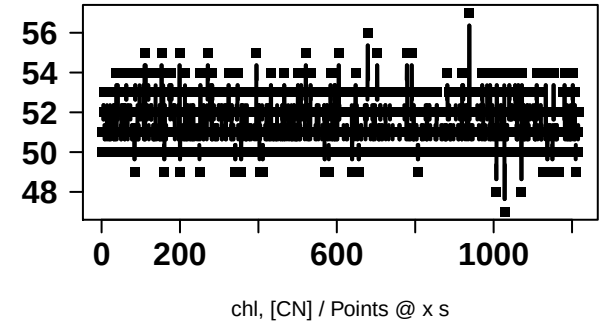

nb days: 0.1 freq: 5.3 min
125
120
115
0
5
10
15
20
25
30
beta, [CN] / Points @ x s

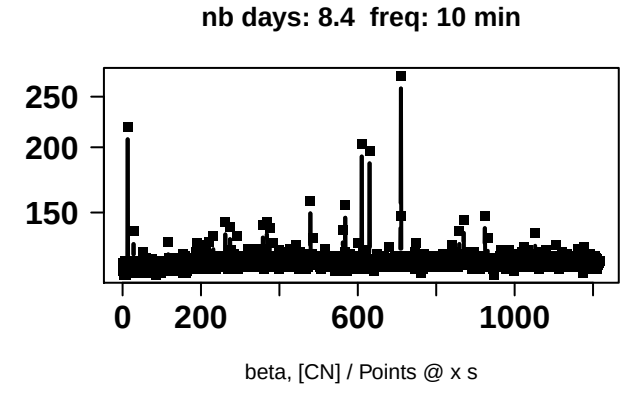

nb days: 0.1 freq: 32 min
8.555
8.550
8.545
8.540
8.535
1
2
3
4
5
c, [1/m] + 0.1 / Points @ x s

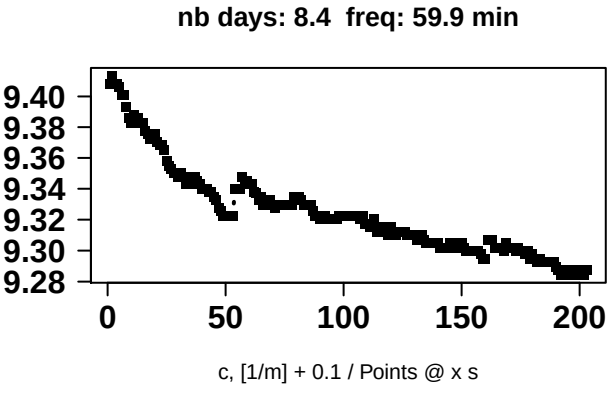

2015−05−22 19:13:05 2015−05−31 05:53:07
1020
1010
1000
990
980
970
0
500
1000
1500
Pressure in

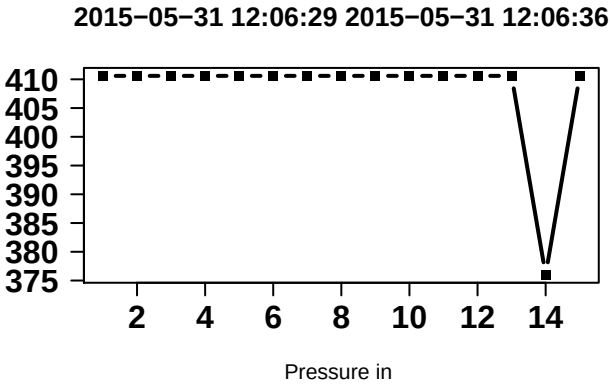

black 0.056 red 0.27
Seawater potential density anomaly
Seawater density − 1000
27.51
27.50
27.49
27.48
27.47
27.46
32.10
32.00
31.90
0
50
100
150
200

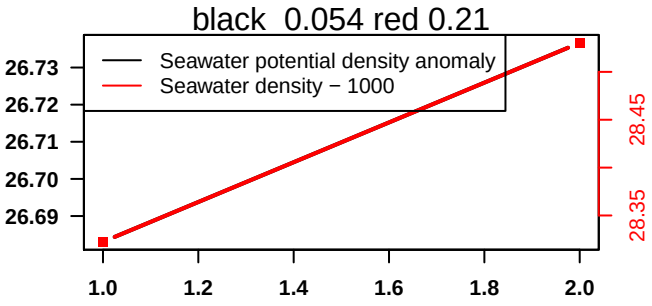

lovbio010b_098_00_06.txt
66
64
62
60
58
56
0
200
600
1000
CDOM, [CN] / Points @ x s

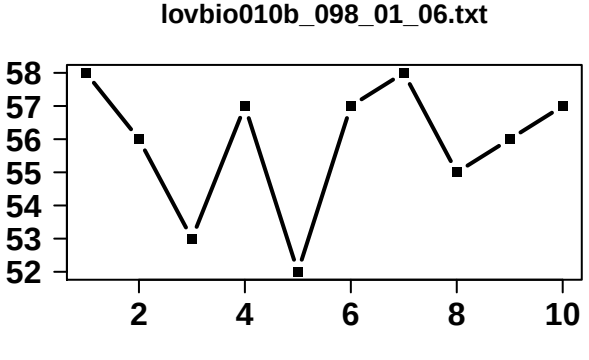

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

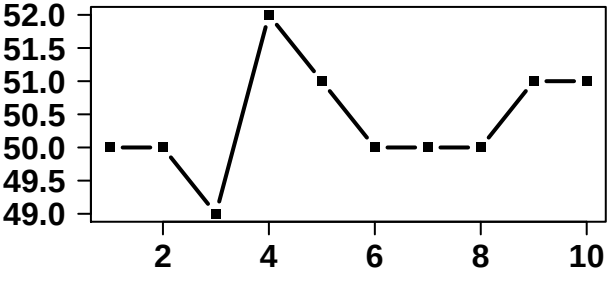

nb days: 8.4 freq: 10 min
250
200
150
0
200
600
1000
beta, [CN] / Points @ x s

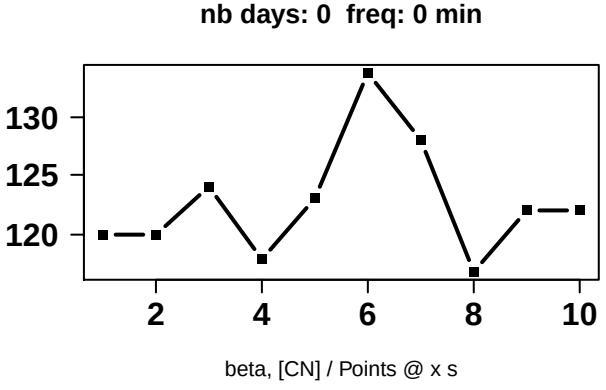

nb days: 8.4 freq: 59.9 min
9.40
9.38
9.36
9.34
9.32
9.30
9.28
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

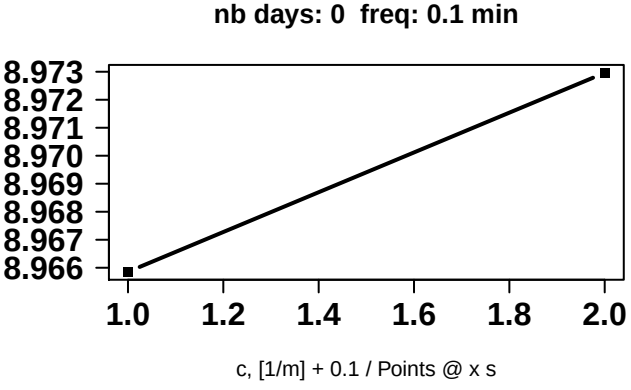

2015−05−31 12:06:29 2015−05−31 12:06:36
410
405
400
395
390
385
380
375
2
4
6
8
10
12
14
Pressure in

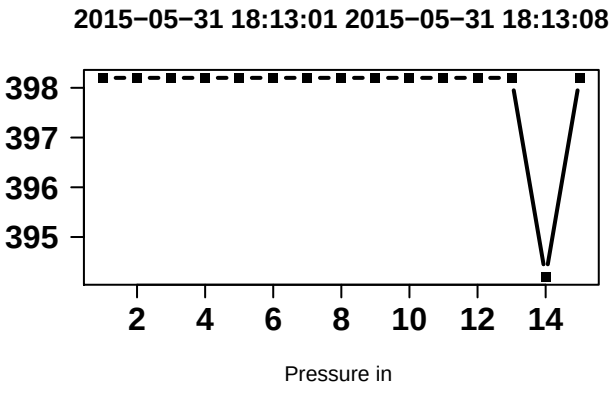

black 0.054 red 0.21
Seawater potential density anomaly
Seawater density − 1000
26.73
26.72
26.71
26.70
26.69
28.45
28.35
1.0
1.2
1.4
1.6
1.8
2.0

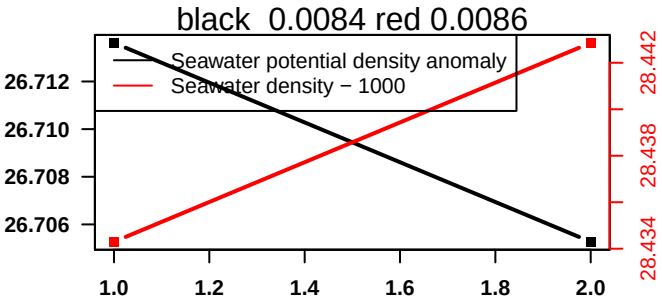

lovbio010b_098_01_06.txt
58
57
56
55
54
53
52
2
4
6
8
10
CDOM, [CN] / Points @ x s

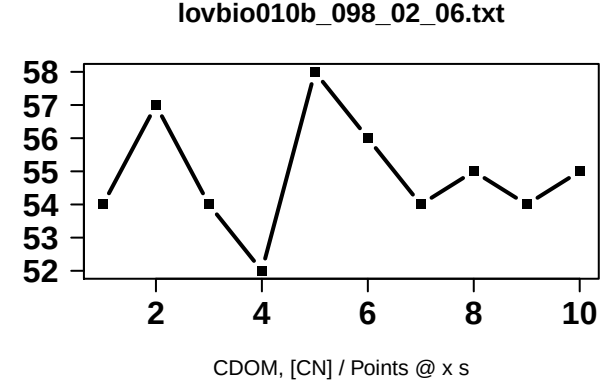

52.0
51.5
51.0
50.5
50.0
49.5
49.0
2
4
6
8
10
chl, [CN] / Points @ x s

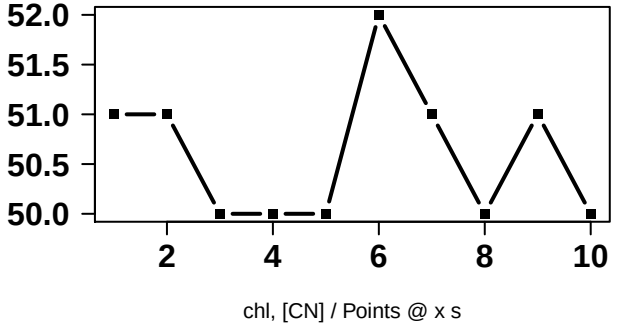

nb days: 0 freq: 0 min
130
125
120
2
4
6
8
10
beta, [CN] / Points @ x s

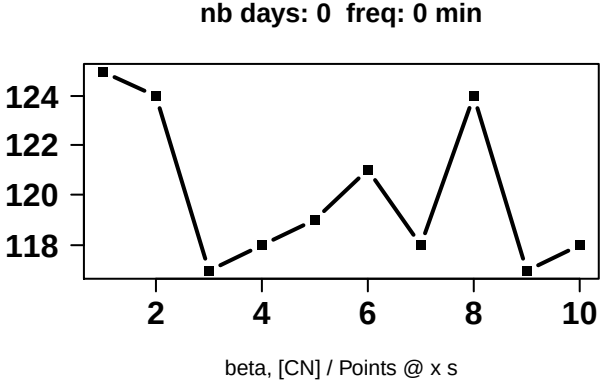

nb days: 0 freq: 0.1 min
8.973
8.972
8.971
8.970
8.969
8.968
8.967
8.966
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

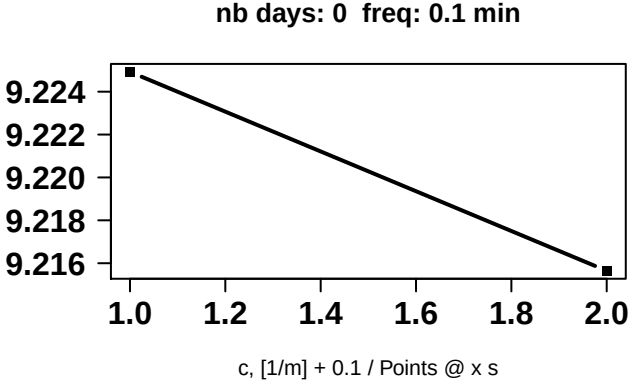

2015−05−31 18:13:01 2015−05−31 18:13:08
398
397
396
395
2
4
6
8
10
12
14
Pressure in

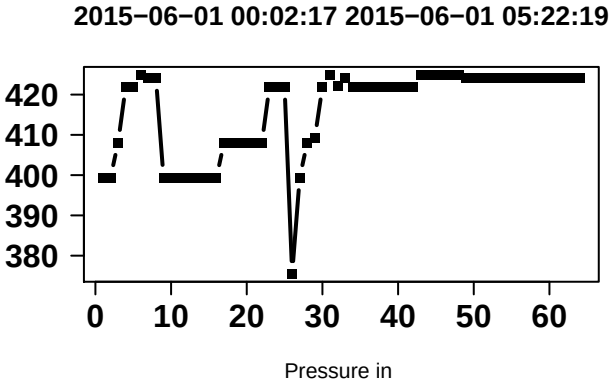

black 0.0084 red 0.0086
Seawater potential density anomaly
Seawater density − 1000
26.712
26.710
26.708
26.706
28.442
28.438
28.434
1.0
1.2
1.4
1.6
1.8
2.0

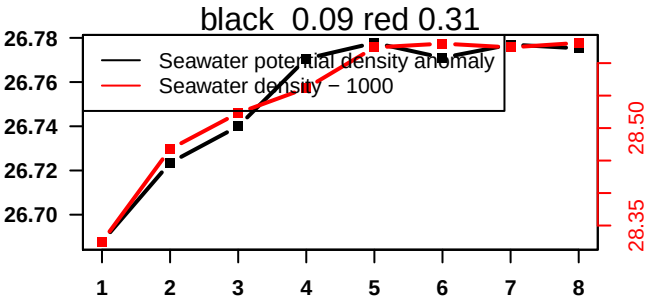

lovbio010b_098_02_06.txt
58
57
56
55
54
53
52
2
4
6
8
10
CDOM, [CN] / Points @ x s

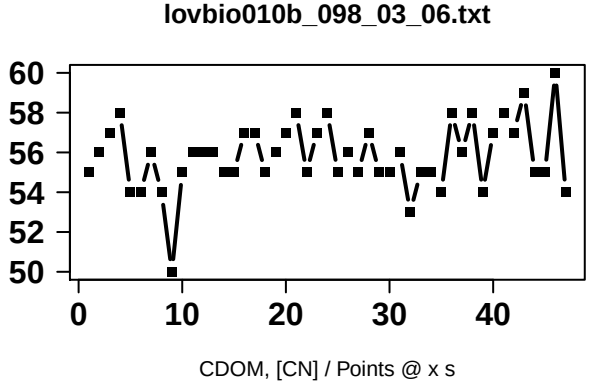

52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

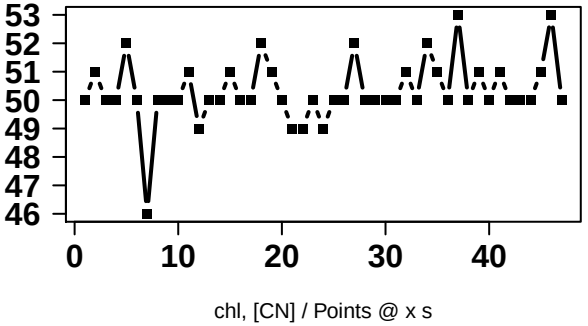

nb days: 0 freq: 0 min
124
122
120
118
2
4
6
8
10
beta, [CN] / Points @ x s

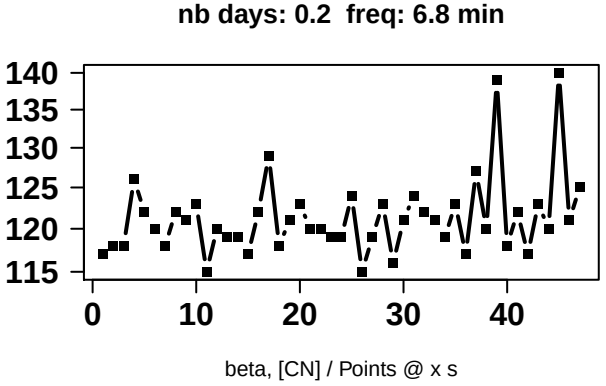

nb days: 0 freq: 0.1 min
9.224
9.222
9.220
9.218
9.216
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

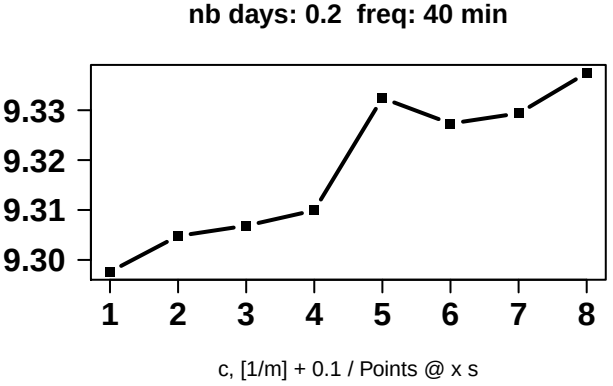

2015−06−01 00:02:17 2015−06−01 05:22:19
420
410
400
390
380
0
10
20
30
40
50
60
Pressure in

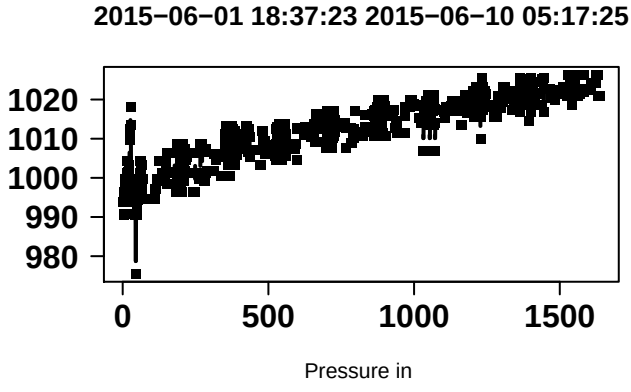

black 0.09 red 0.31
Seawater potential density anomaly
Seawater density − 1000
26.78
26.76
26.74
26.72
26.70
28.50
28.35
1
2
3
4
5
6
7
8

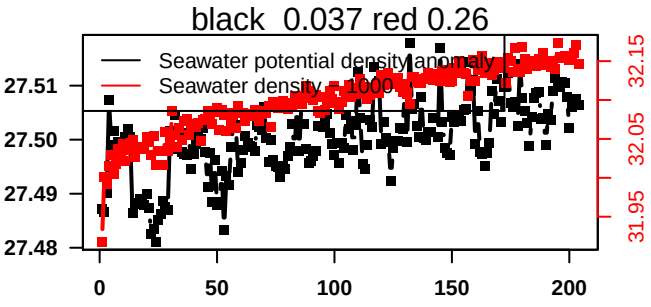

lovbio010b_098_03_06.txt
60
58
56
54
52
50
0
10
20
30
40
CDOM, [CN] / Points @ x s

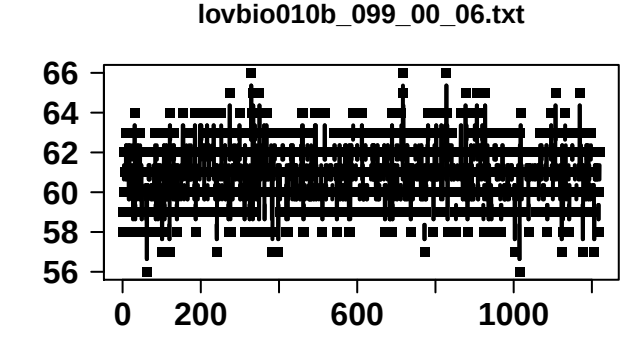

53
52
51
50
49
48
47
46
0
10
20
30
40
chl, [CN] / Points @ x s

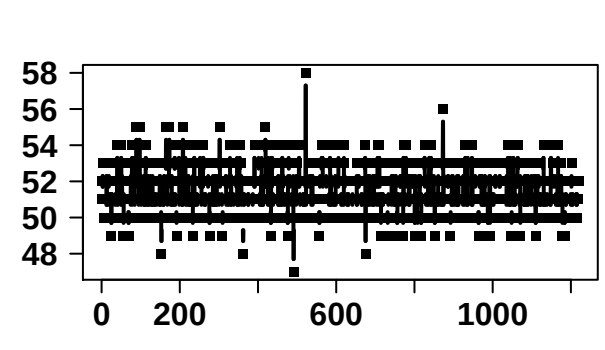

nb days: 0.2 freq: 6.8 min
140
135
130
125
120
115
0
10
20
30
40
beta, [CN] / Points @ x s

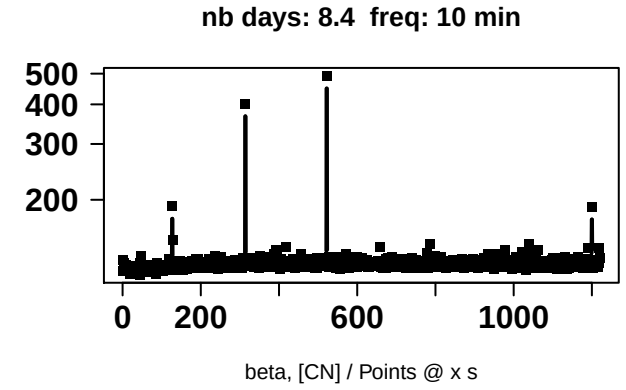

nb days: 0.2 freq: 40 min
9.33
9.32
9.31
9.30
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

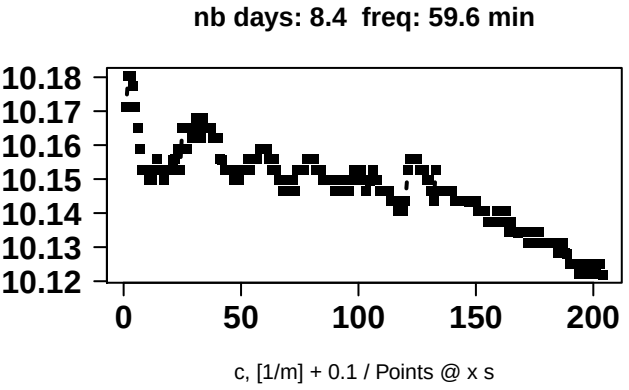

2015−06−01 18:37:23 2015−06−10 05:17:25
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

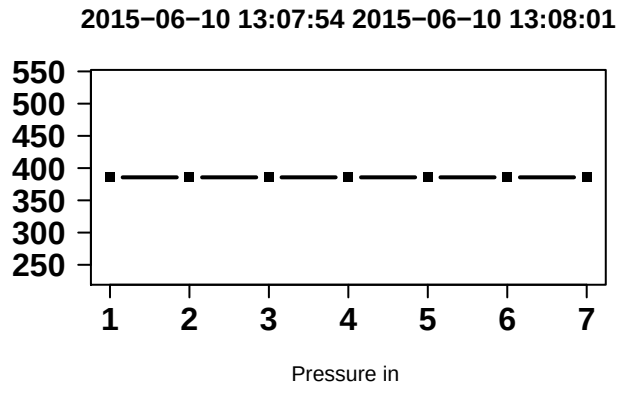

black 0.037 red 0.26
Seawater potential density anomaly [...
Seawater density − 1000 [...
27.51
27.50
27.49
27.48
32.15
32.05
31.95
0
50
100
150
200

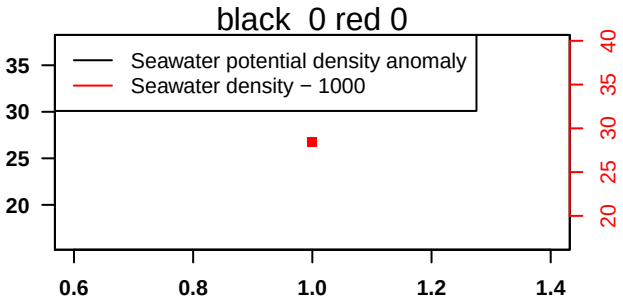

lovbio010b_099_00_06.txt
66
64
62
60
58
56
0
200
600
1000
CDOM, [CN] / Points @ x s

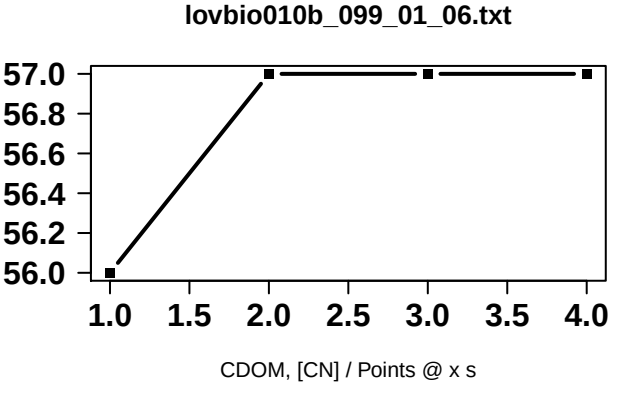

58
56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

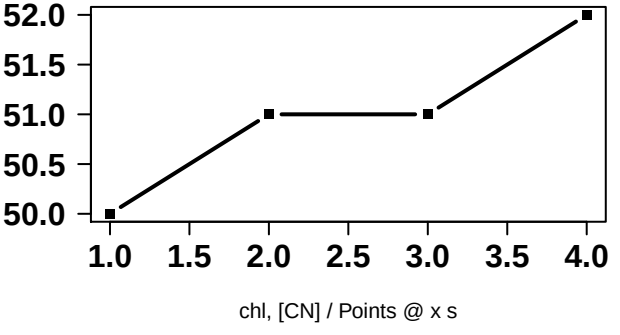

nb days: 8.4 freq: 10 min
500
400
300
200
0
200
600
1000
beta, [CN] / Points @ x s

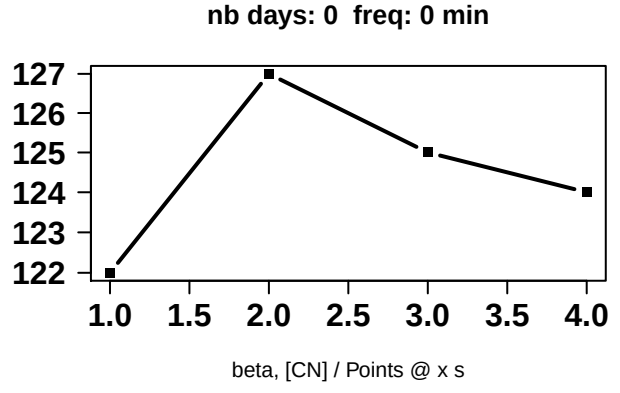

nb days: 8.4 freq: 59.6 min
10.18
10.17
10.16
10.15
10.14
10.13
10.12
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

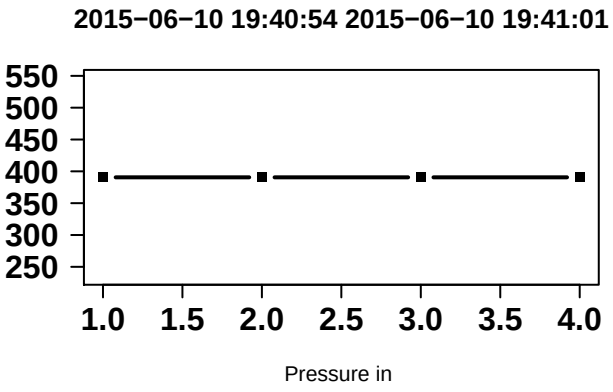

2015−06−10 13:07:54 2015−06−10 13:08:01
550
500
450
400
350
300
250
1
2
3
4
5
6
7
Pressure in

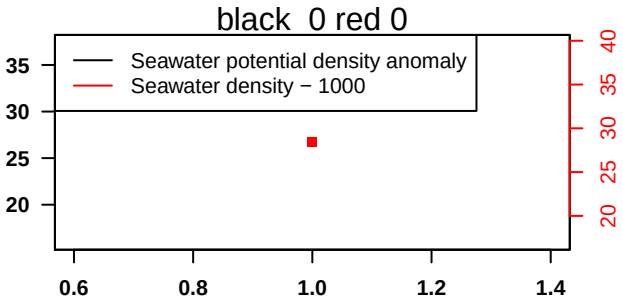

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

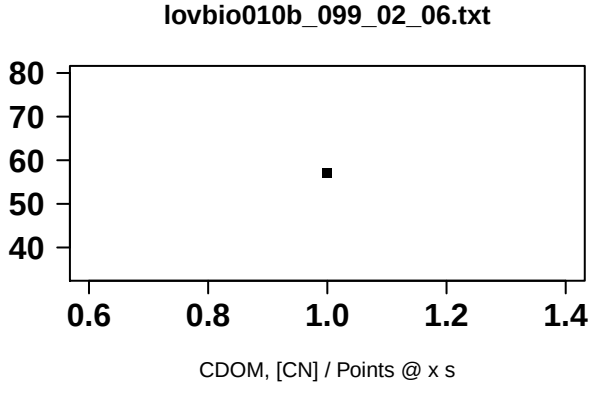

lovbio010b_099_01_06.txt
57.0
56.8
56.6
56.4
56.2
56.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

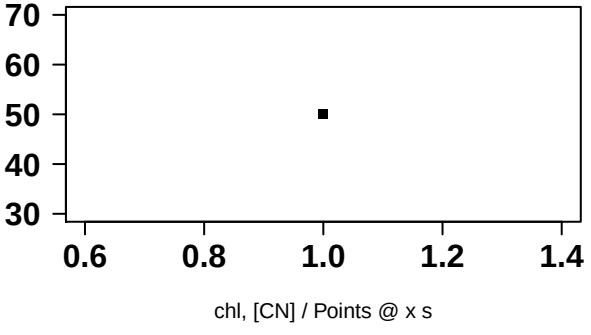

52.0
51.5
51.0
50.5
50.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

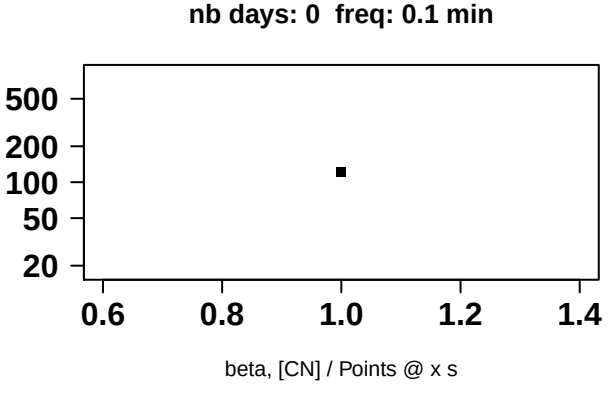

nb days: 0 freq: 0 min
127
126
125
124
123
122
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

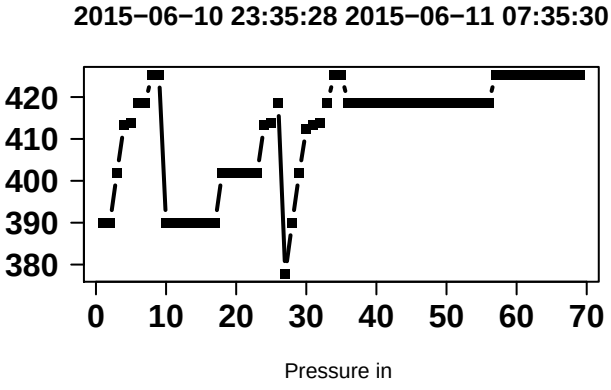

2015−06−10 19:40:54 2015−06−10 19:41:01
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

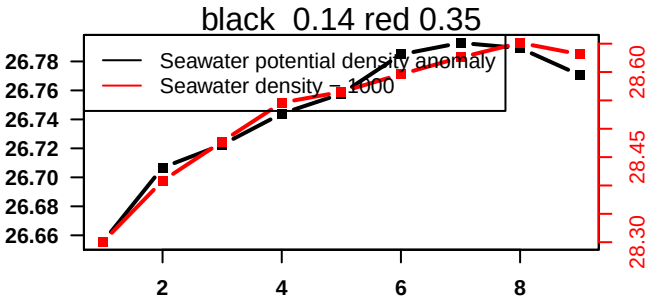

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

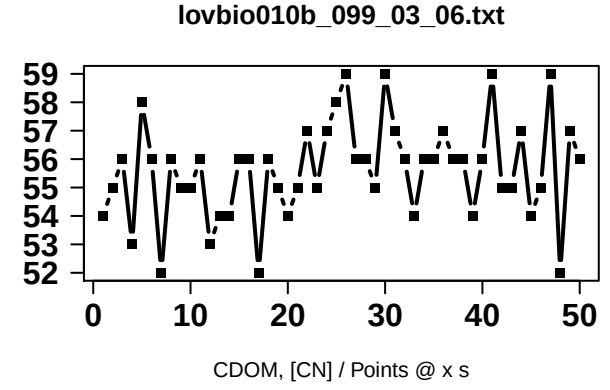

lovbio010b_099_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

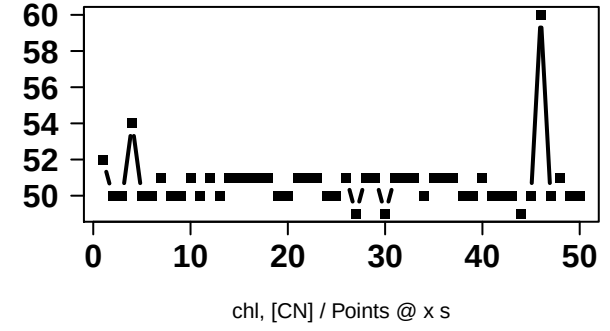

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

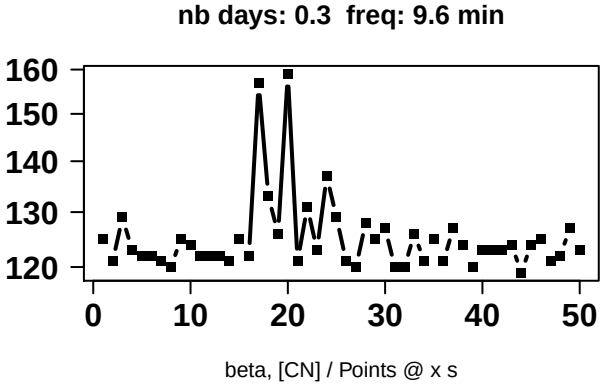

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

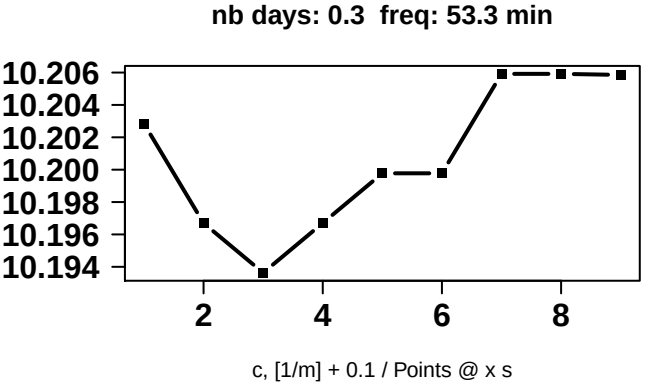

2015−06−10 23:35:28 2015−06−11 07:35:30
420
410
400
390
380
0
10
20
30
40
50
60
70
Pressure in

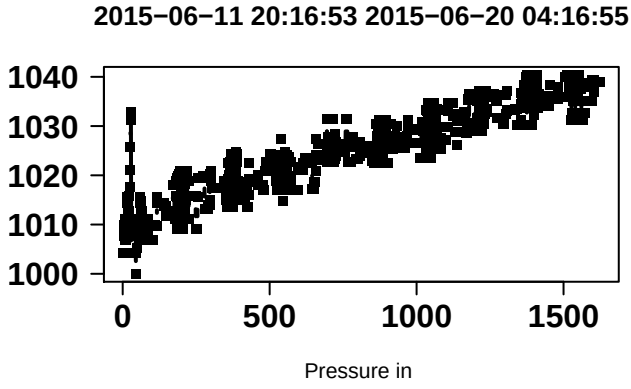

black 0.14 red 0.35
Seawater potential density anomaly
Seawater density − 1000
26.78
26.76
26.74
26.72
26.70
26.68
26.66
28.60
28.45
28.30
2
4
6
8

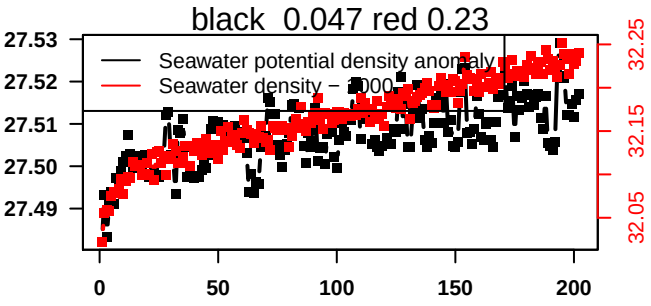

lovbio010b_099_03_06.txt
59
58
57
56
55
54
53
52
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

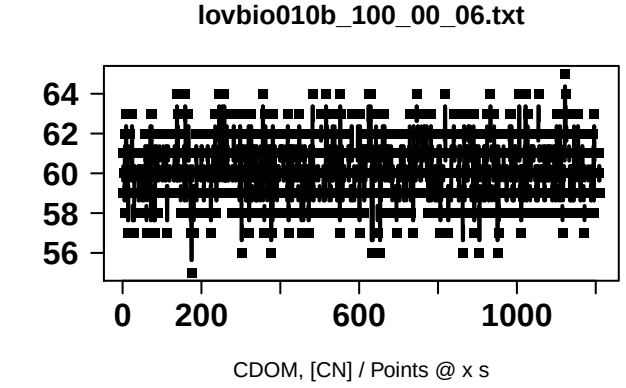

60
58
56
54
52
50
0
10
20
30
40
50
chl, [CN] / Points @ x s

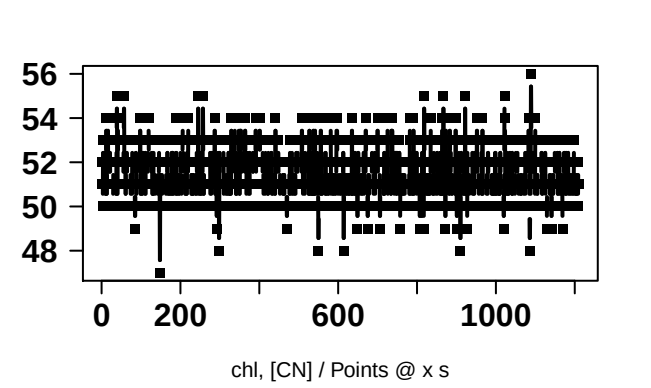

nb days: 0.3 freq: 9.6 min
160
150
140
130
120
0
10
20
30
40
50
beta, [CN] / Points @ x s

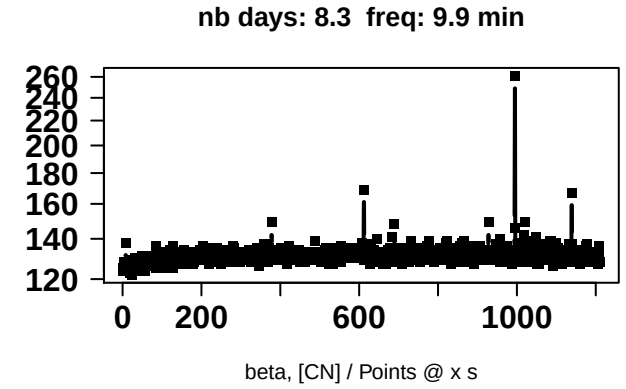

nb days: 0.3 freq: 53.3 min
10.206
10.204
10.202
10.200
10.198
10.196
10.194
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

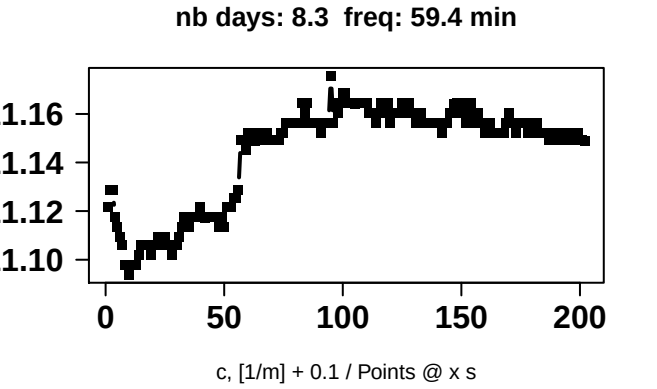

2015−06−11 20:16:53 2015−06−20 04:16:55
1040
1030
1020
1010
1000
0
500
1000
1500
Pressure in

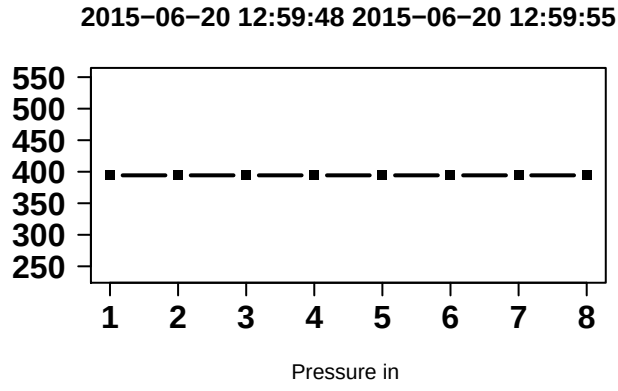

black 0.047 red 0.23
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
32.25
32.15
32.05
0
50
100
150
200

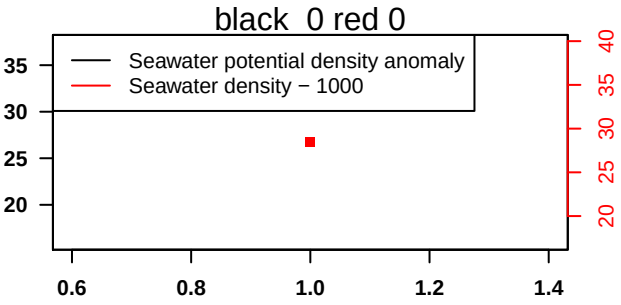

lovbio010b_100_00_06.txt
64
62
60
58
56
0
200
600
1000
CDOM, [CN] / Points @ x s

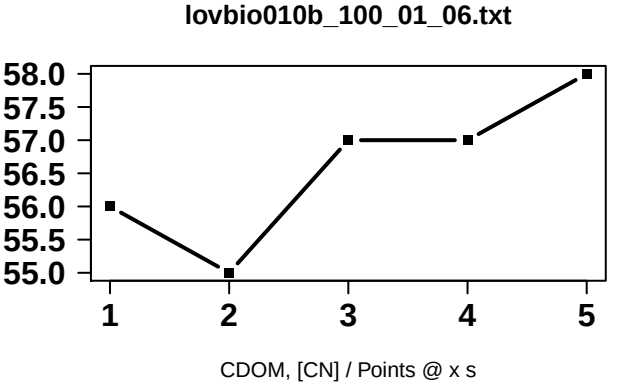

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

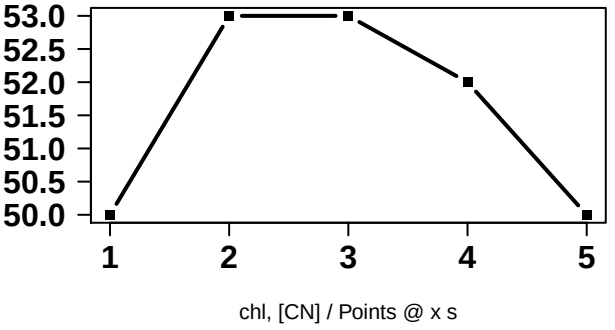

nb days: 8.3 freq: 9.9 min
260
240
220
200
180
160
140
120
0
200
600
1000
beta, [CN] / Points @ x s

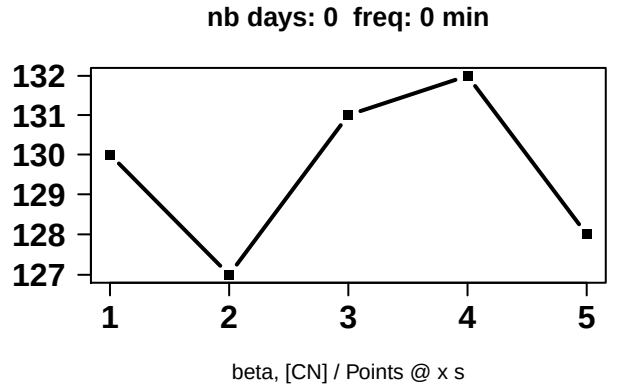

nb days: 8.3 freq: 59.4 min
11.16
11.14
11.12
11.10
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

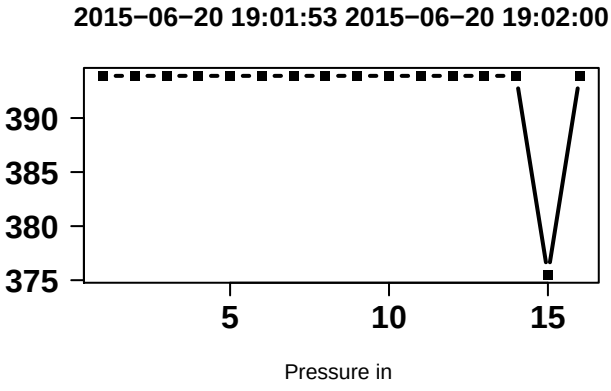

2015−06−20 12:59:48 2015−06−20 12:59:55
550
500
450
400
350
300
250
1
2
3
4
5
6
7
8
Pressure in

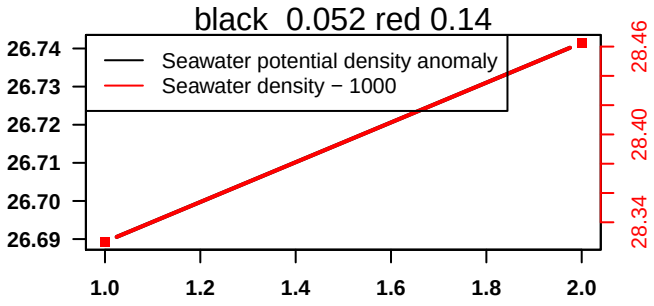

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

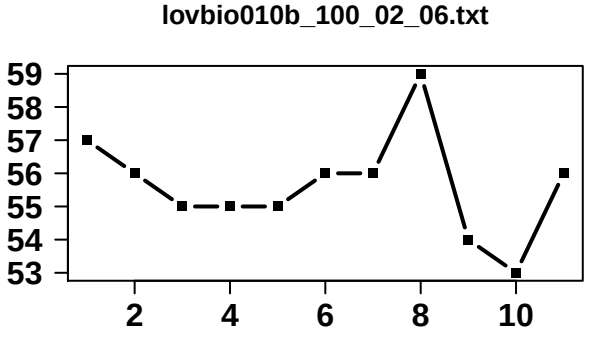

lovbio010b_100_01_06.txt
58.0
57.5
57.0
56.5
56.0
55.5
55.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

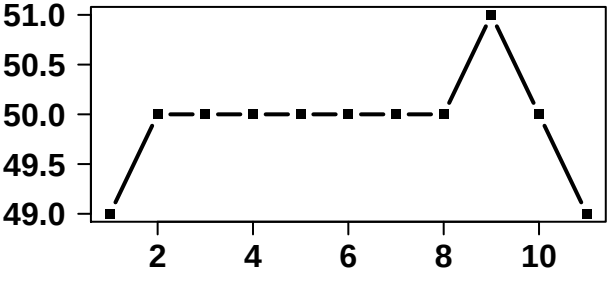

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
chl, [CN] / Points @ x s

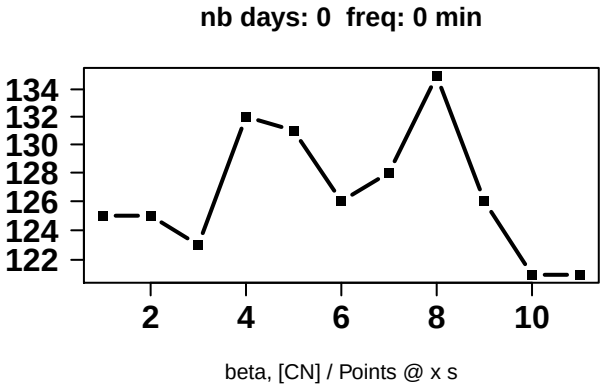

nb days: 0 freq: 0 min
132
131
130
129
128
127
1
2
3
4
5
beta, [CN] / Points @ x s

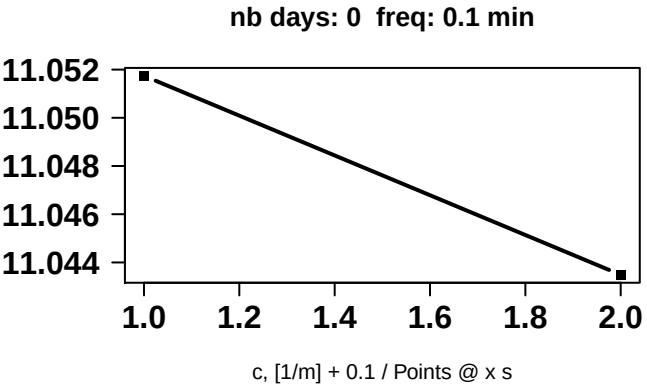

2015−06−20 19:01:53 2015−06−20 19:02:00
390
385
380
375
5
10
15
Pressure in

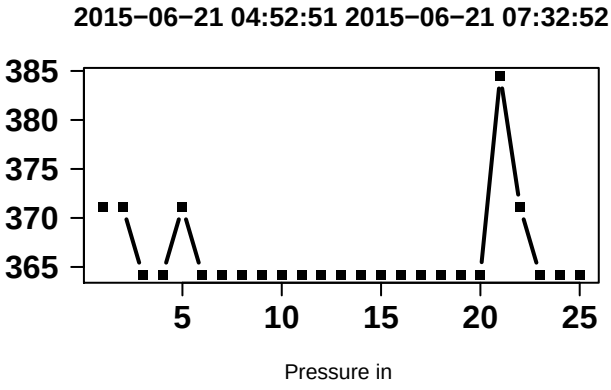

black 0.052 red 0.14
Seawater potential density anomaly
Seawater density − 1000
26.74
26.73
26.72
26.71
26.70
26.69
28.46
28.40
28.34
1.0
1.2
1.4
1.6
1.8
2.0

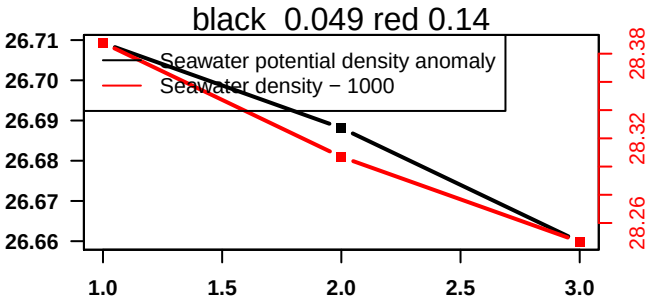

lovbio010b_100_02_06.txt
59
58
57
56
55
54
53
2
4
6
8
10
CDOM, [CN] / Points @ x s

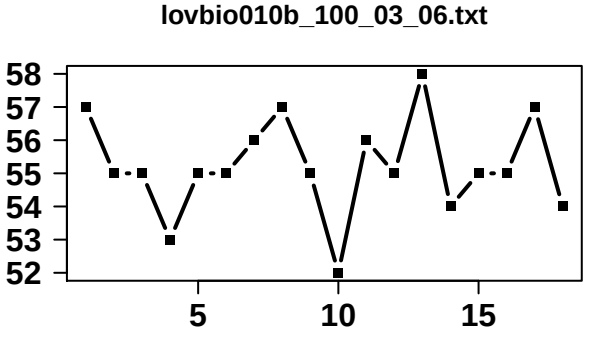

51.0
50.5
50.0
49.5
49.0
2
4
6
8
10
chl, [CN] / Points @ x s

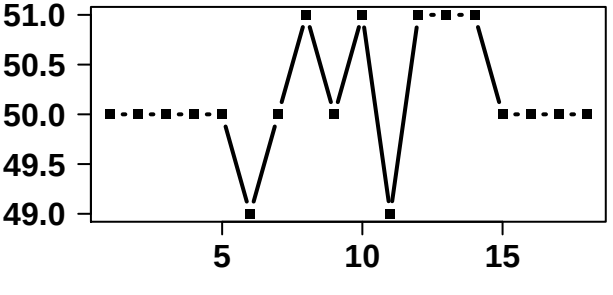

nb days: 0 freq: 0 min
134
132
130
128
126
124
122
2
4
6
8
10
beta, [CN] / Points @ x s

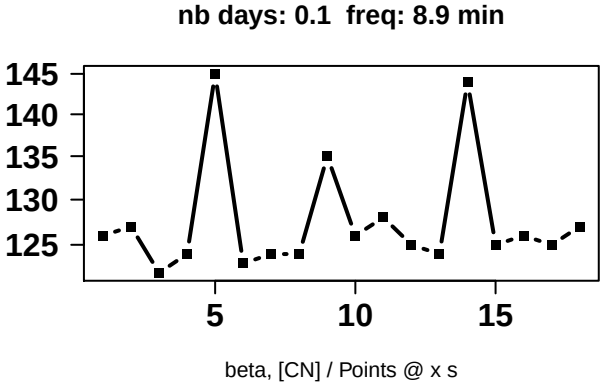

nb days: 0 freq: 0.1 min
11.052
11.050
11.048
11.046
11.044
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

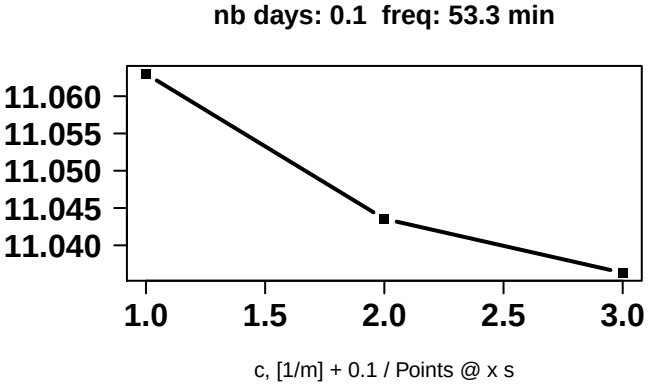

2015−06−21 04:52:51 2015−06−21 07:32:52
385
380
375
370
365
5
10
15
20
25
Pressure in

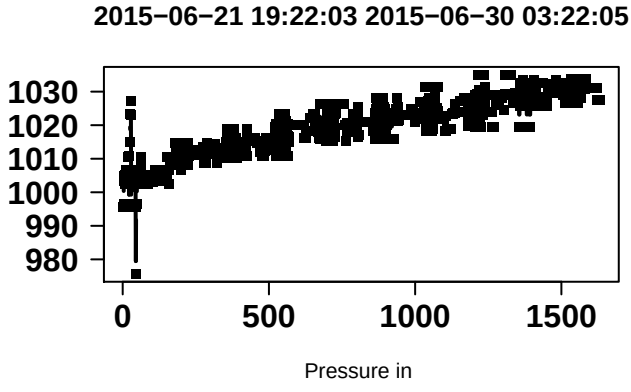

black 0.049 red 0.14
Seawater potential density anomaly
Seawater density − 1000
26.71
26.70
26.69
26.68
26.67
26.66
28.38
28.32
28.26
1.0
1.5
2.0
2.5
3.0

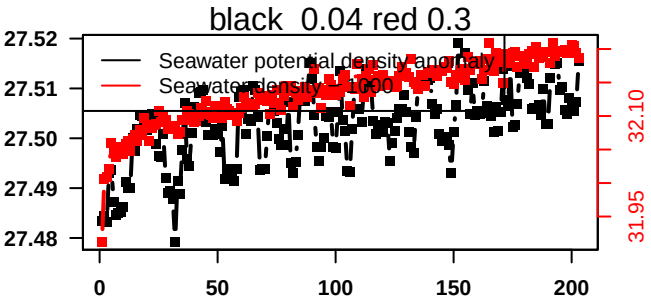

lovbio010b_100_03_06.txt
58
57
56
55
54
53
52
5
10
15
CDOM, [CN] / Points @ x s

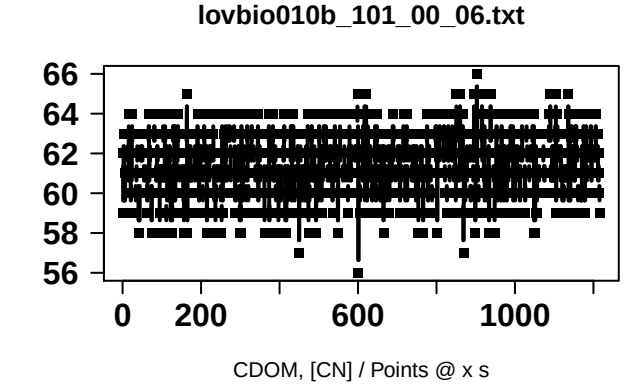

51.0
50.5
50.0
49.5
49.0
5
10
15
chl, [CN] / Points @ x s

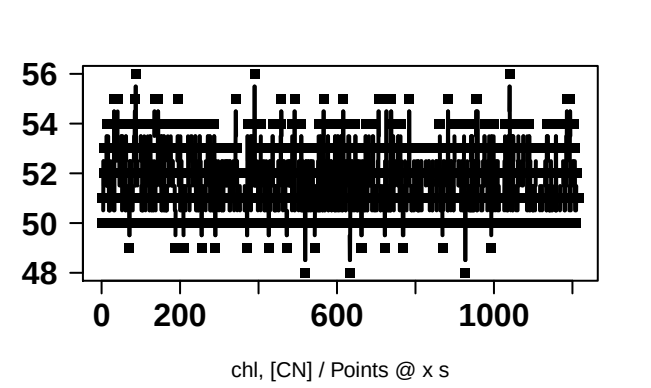

nb days: 0.1 freq: 8.9 min
145
140
135
130
125
5
10
15
beta, [CN] / Points @ x s

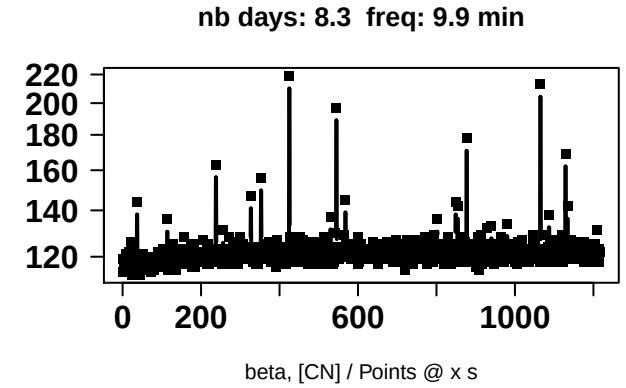

nb days: 0.1 freq: 53.3 min
11.060
11.055
11.050
11.045
11.040
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

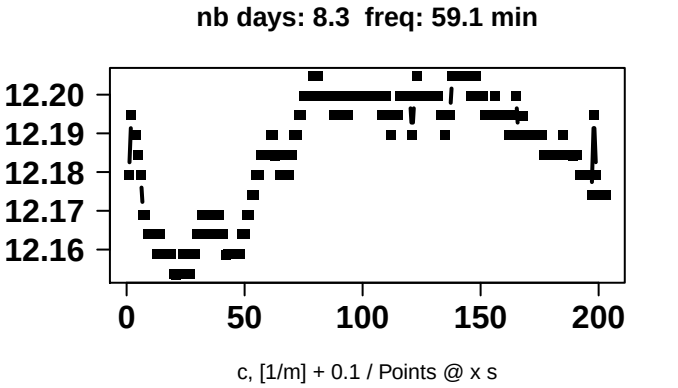

2015−06−21 19:22:03 2015−06−30 03:22:05
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

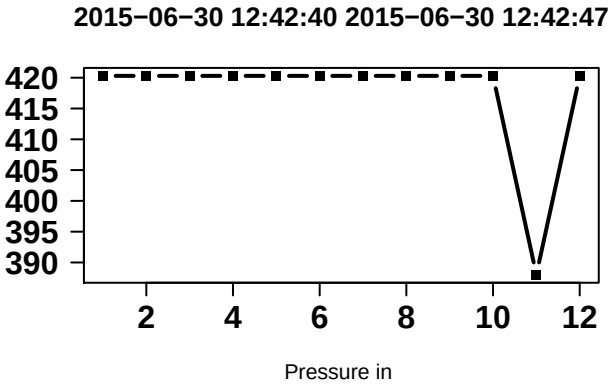

black 0.04 red 0.3
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
32.10
31.95
0
50
100
150
200

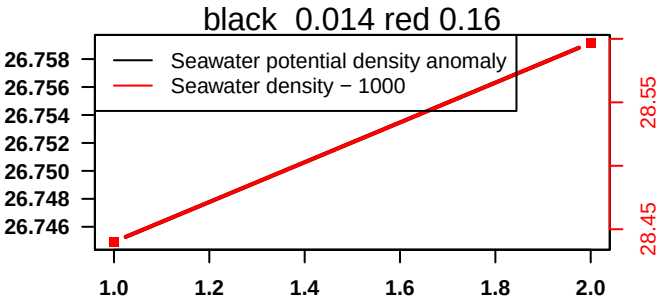

lovbio010b_101_00_06.txt
66
64
62
60
58
56
0
200
600
1000
CDOM, [CN] / Points @ x s

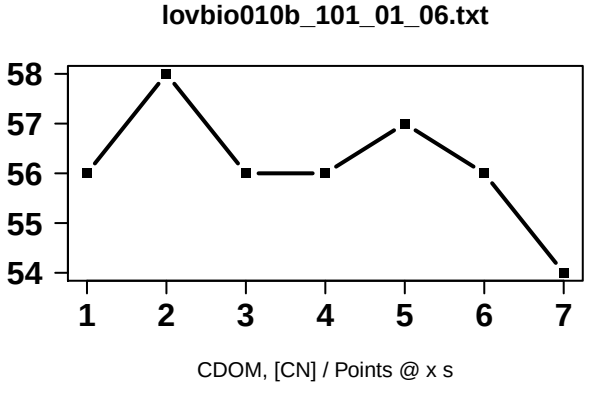

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

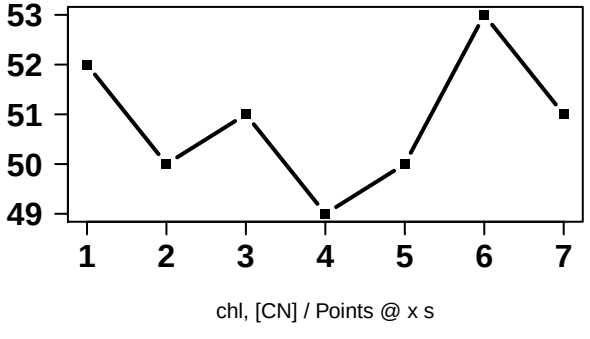

nb days: 8.3 freq: 9.9 min
220
200
180
160
140
120
0
200
600
1000
beta, [CN] / Points @ x s

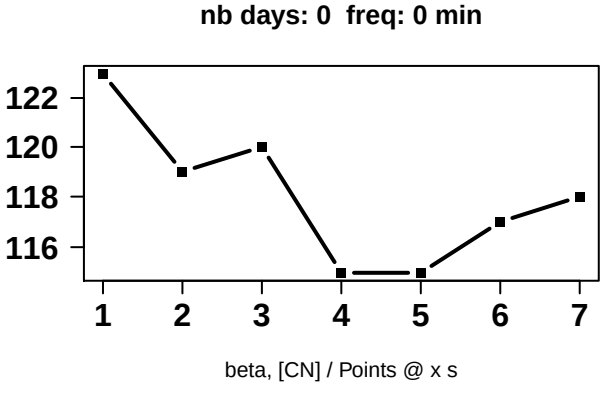

nb days: 8.3 freq: 59.1 min
12.20
12.19
12.18
12.17
12.16
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

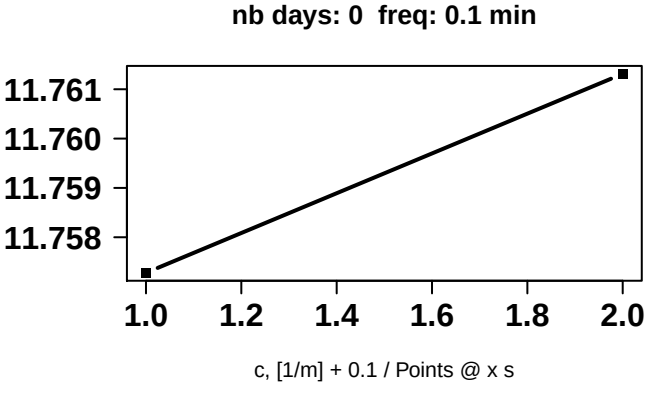

2015−06−30 12:42:40 2015−06−30 12:42:47
420
415
410
405
400
395
390
2
4
6
8
10
12
Pressure in

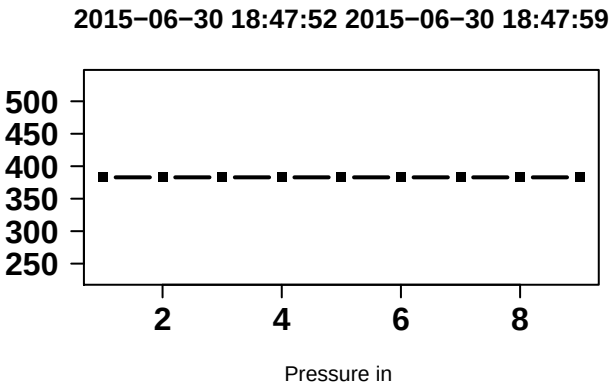

black 0.014 red 0.16
Seawater potential density anomaly
Seawater density − 1000
26.758
26.756
26.754
26.752
26.750
26.748
26.746
28.55
28.45
1.0
1.2
1.4
1.6
1.8
2.0

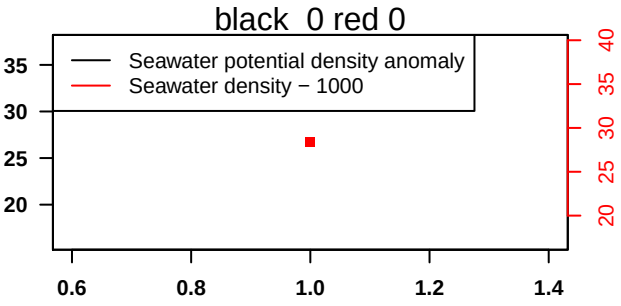

lovbio010b_101_01_06.txt
58
57
56
55
54
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

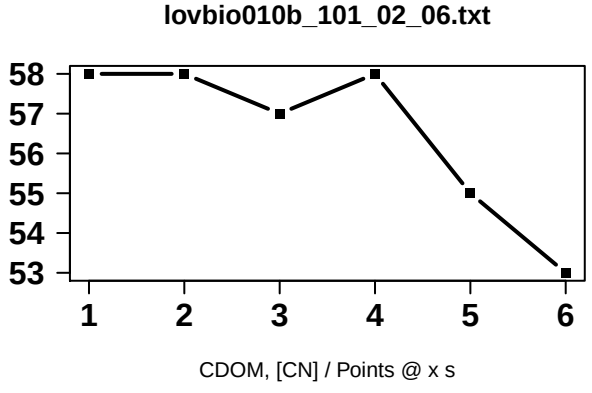

53
52
51
50
49
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

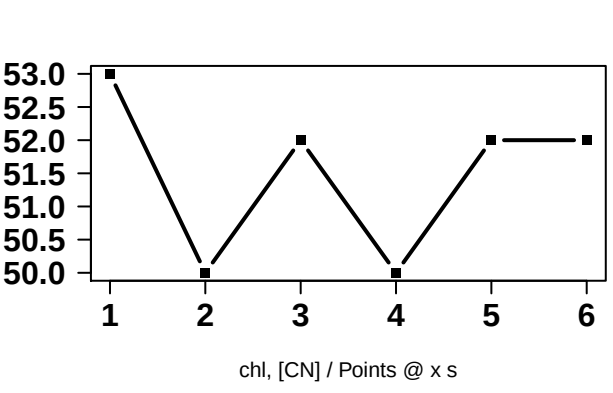

nb days: 0 freq: 0 min
122
120
118
116
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

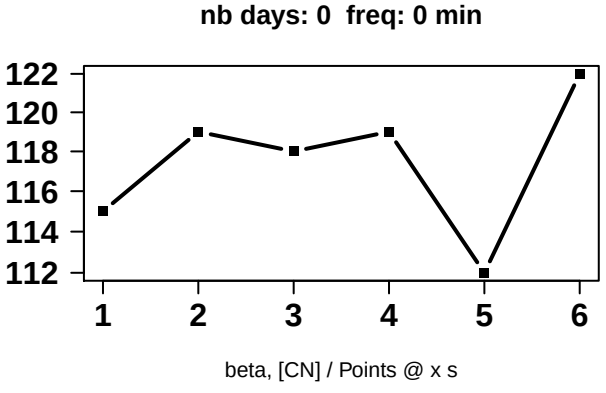

nb days: 0 freq: 0.1 min
11.761
11.760
11.759
11.758
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

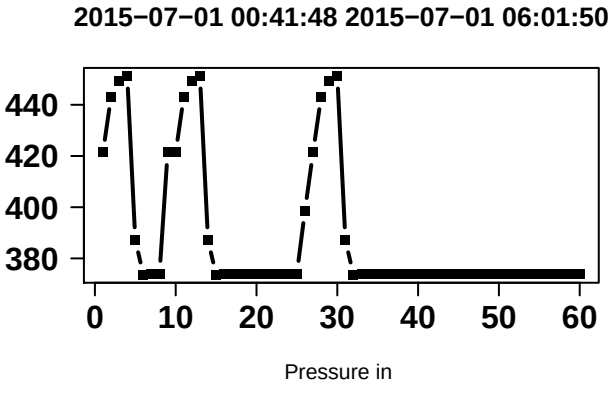

2015−06−30 18:47:52 2015−06−30 18:47:59
500
450
400
350
300
250
2
4
6
8
Pressure in

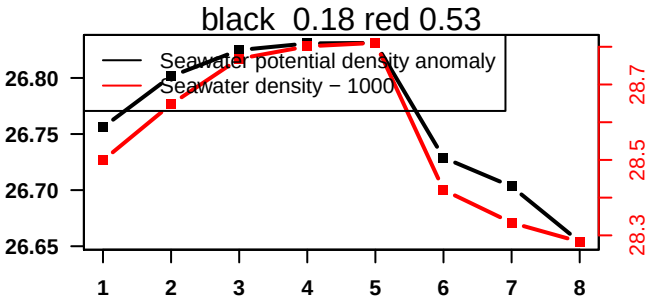

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

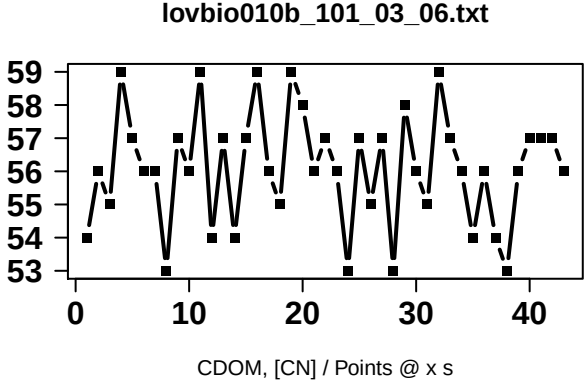

lovbio010b_101_02_06.txt
58
57
56
55
54
53
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

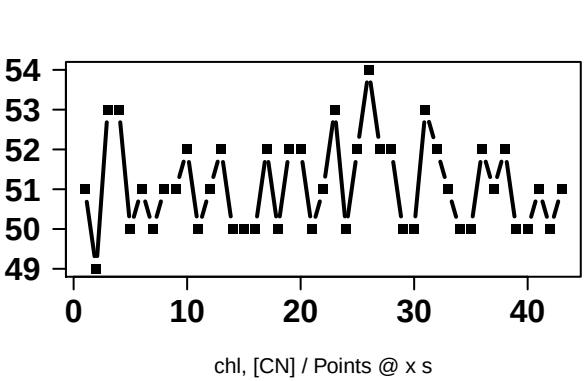

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

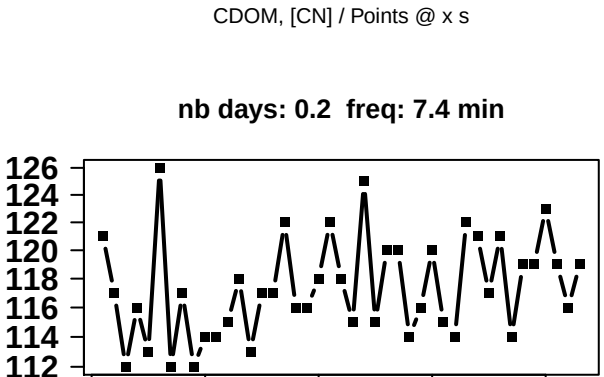

nb days: 0 freq: 0 min
122
120
118
116
114
112
1
2
3
4
5
6
beta, [CN] / Points @ x s

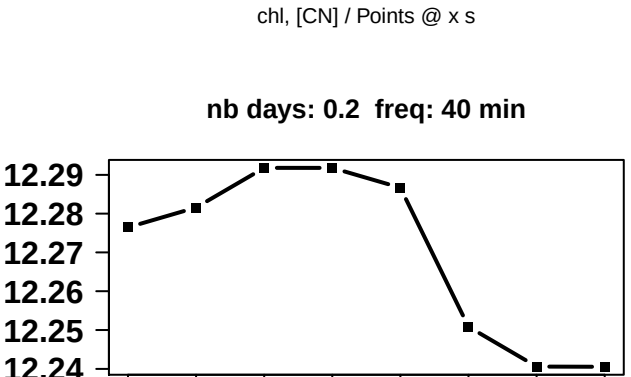

2015−07−01 00:41:48 2015−07−01 06:01:50
440
420
400
380
0
10
20
30
40
50
60
Pressure in

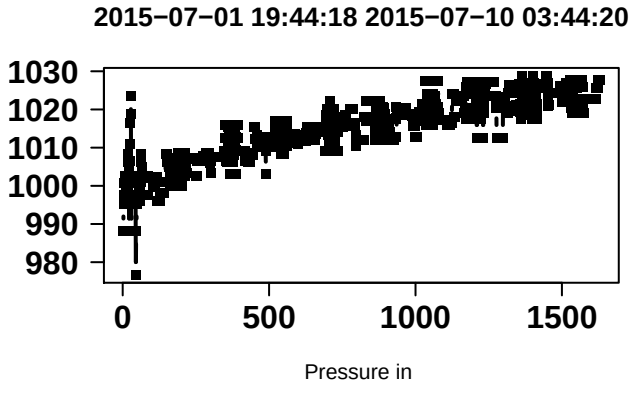

black 0.18 red 0.53
Seawater potential density anomaly
Seawater density − 1000
26.80
26.75
26.70
26.65
28.7
28.5
28.3
1
2
3
4
5
6
7
8

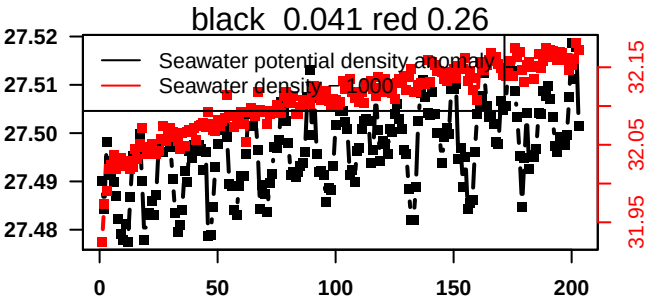

lovbio010b_101_03_06.txt
59
58
57
56
55
54
53
0
10
20
30
40
CDOM, [CN] / Points @ x s

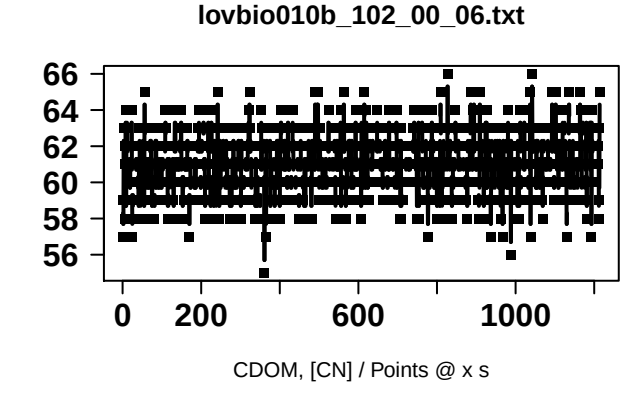

54
53
52
51
50
49
0
10
20
30
40
chl, [CN] / Points @ x s

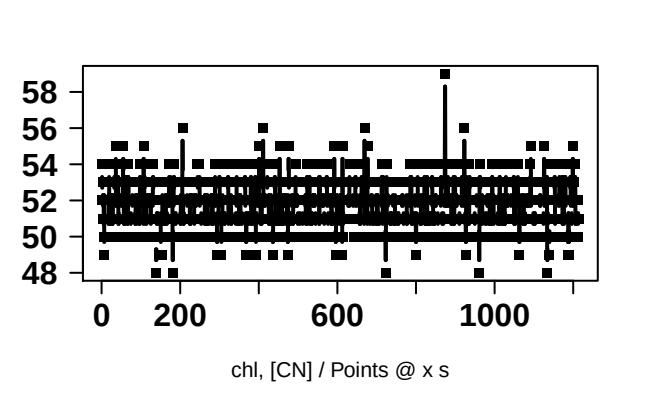

nb days: 0.2 freq: 7.4 min
126
124
122
120
118
116
114
112
0
10
20
30
40
beta, [CN] / Points @ x s

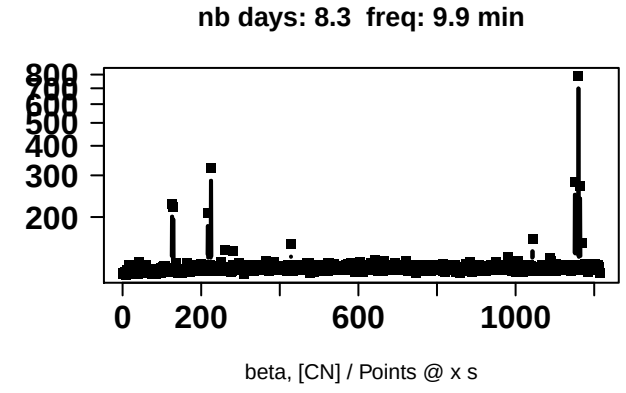

nb days: 0.2 freq: 40 min
12.29
12.28
12.27
12.26
12.25
12.24
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

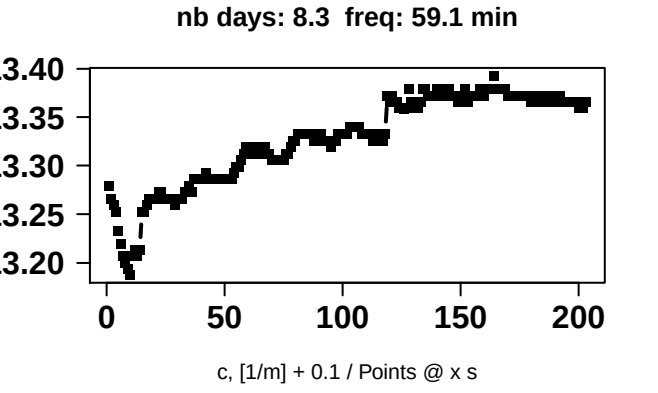

2015−07−01 19:44:18 2015−07−10 03:44:20
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

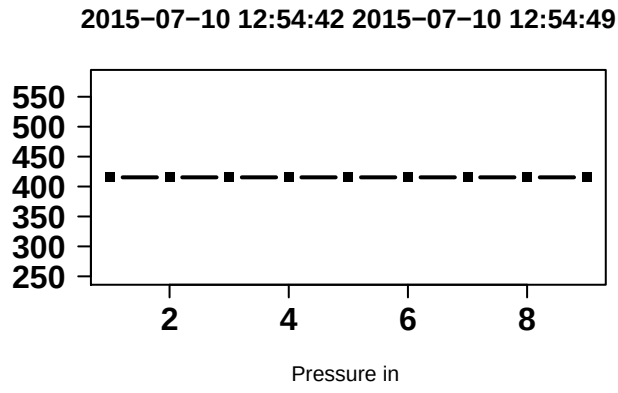

black 0.041 red 0.26
Seawater potential density anomaly (...
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
32.15
32.05
31.95
0
50
100
150
200

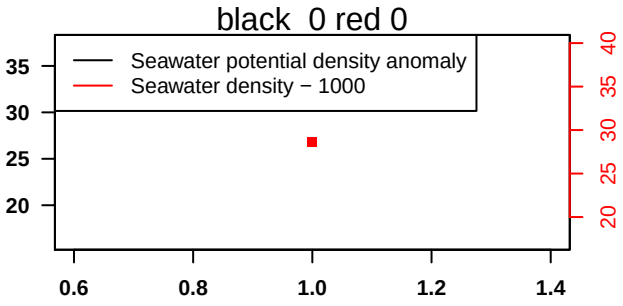

lovbio010b_102_00_06.txt
66
64
62
60
58
56
0
200
600
1000
CDOM, [CN] / Points @ x s

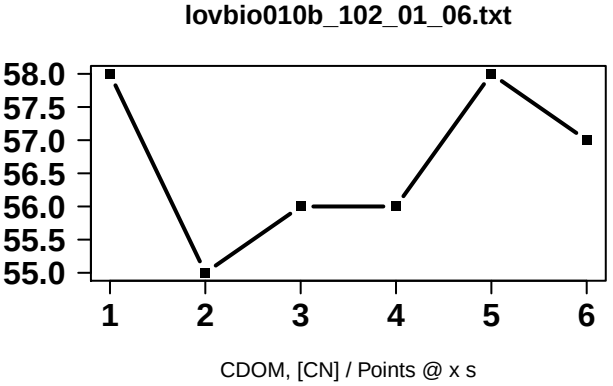

58
56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

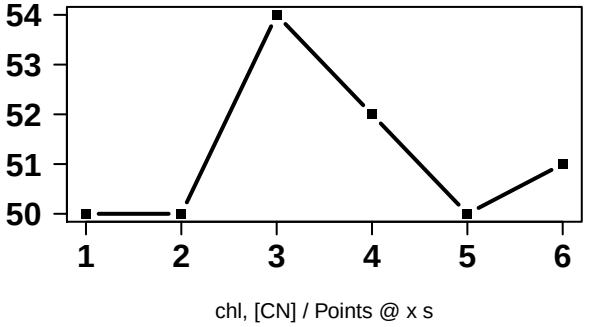

nb days: 8.3 freq: 9.9 min
800
700
600
500
400
300
200
0
200
600
1000
beta, [CN] / Points @ x s

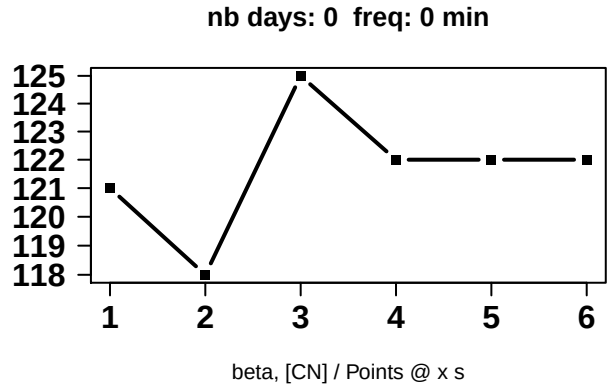

nb days: 8.3 freq: 59.1 min
13.40
13.35
13.30
13.25
13.20
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

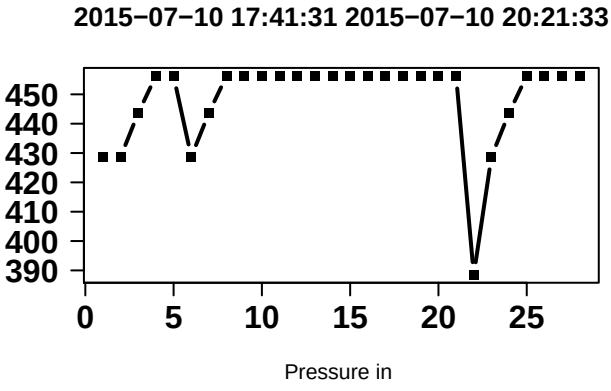

2015−07−10 12:54:42 2015−07−10 12:54:49
550
500
450
400
350
300
250
2
4
6
8
Pressure in

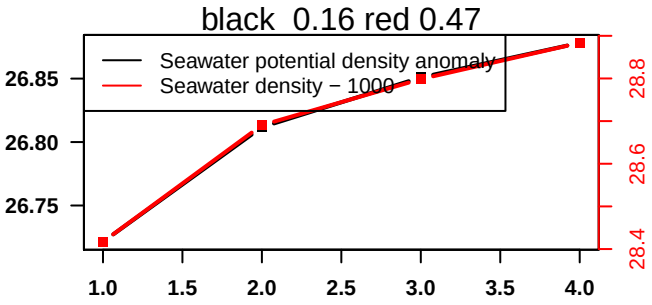

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

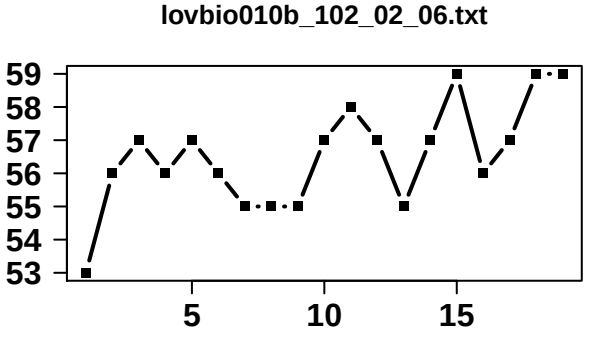

lovbio010b_102_01_06.txt
58.0
57.5
57.0
56.5
56.0
55.5
55.0
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

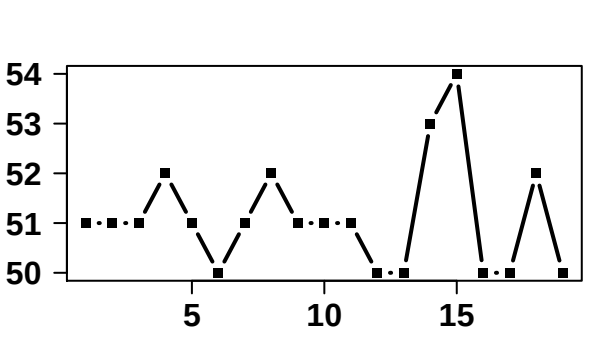

54
53
52
51
50
1
2
3
4
5
6
chl, [CN] / Points @ x s

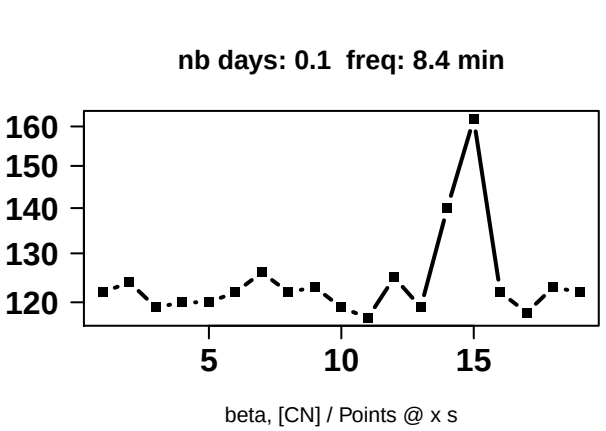

nb days: 0 freq: 0 min
125
124
123
122
121
120
119
118
1
2
3
4
5
6
beta, [CN] / Points @ x s

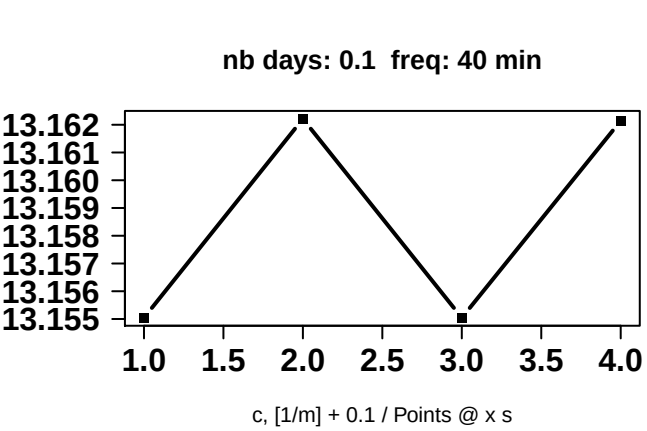

2015−07−10 17:41:31 2015−07−10 20:21:33
450
440
430
420
410
400
390
0
5
10
15
20
25
Pressure in

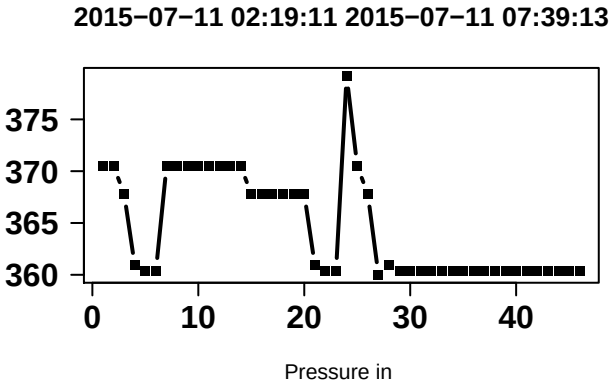

black 0.16 red 0.47
Seawater potential density anomaly
Seawater density − 1000
26.85
26.80
26.75
28.8
28.6
28.4
1.0
1.5
2.0
2.5
3.0
3.5
4.0

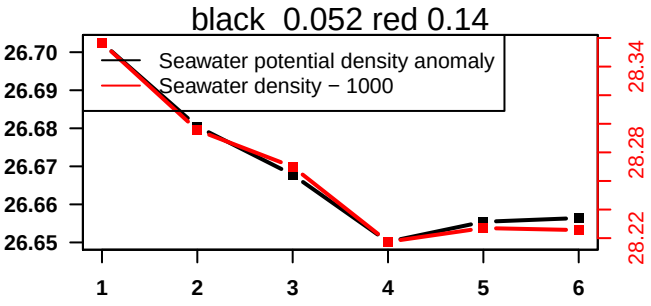

lovbio010b_102_02_06.txt
59
58
57
56
55
54
53
5
10
15
CDOM, [CN] / Points @ x s

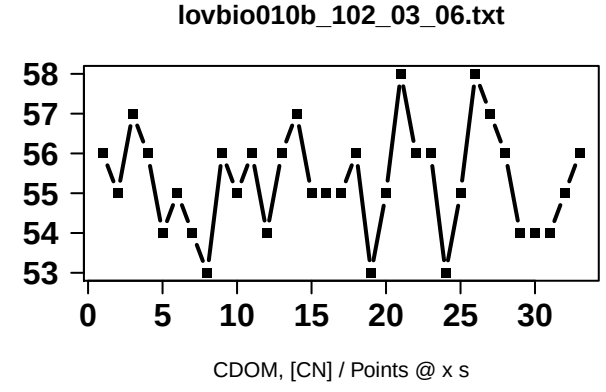

54
53
52
51
50
5
10
15
chl, [CN] / Points @ x s

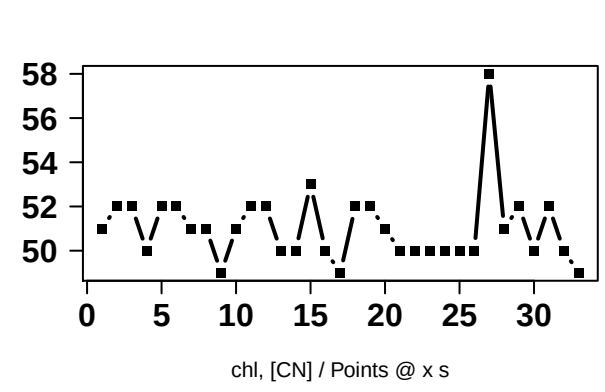

nb days: 0.1 freq: 8.4 min
160
150
140
130
120
5
10
15
beta, [CN] / Points @ x s

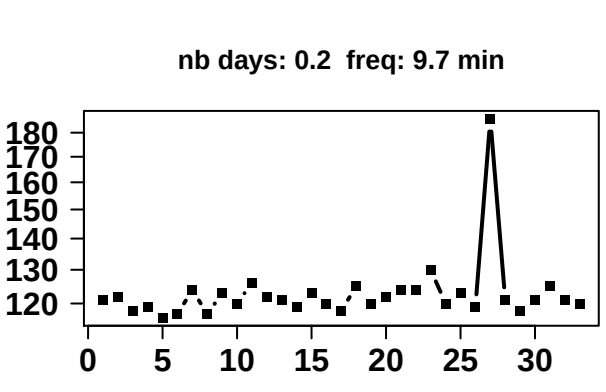

nb days: 0.1 freq: 40 min
13.162
13.161
13.160
13.159
13.158
13.157
13.156
13.155
1.0
1.5
2.0
2.5
3.0
3.5
4.0
c, [1/m] + 0.1 / Points @ x s

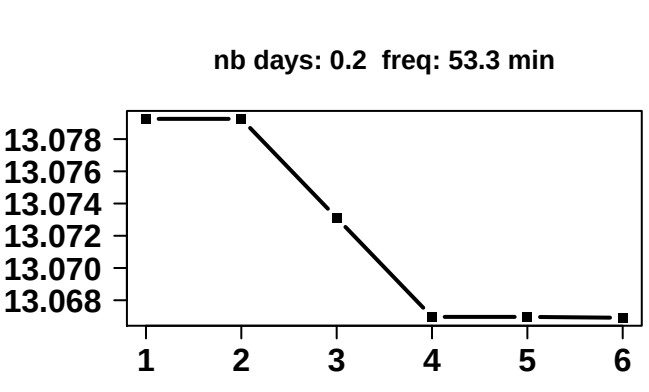

2015−07−11 02:19:11 2015−07−11 07:39:13
375
370
365
360
0
10
20
30
40
Pressure in

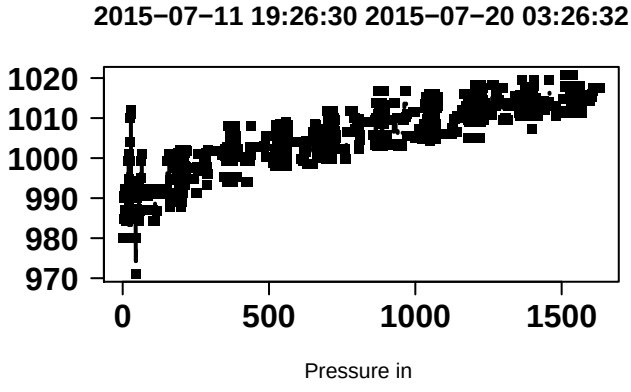

black 0.052 red 0.14
Seawater potential density anomaly
Seawater density − 1000
26.70
26.69
26.68
26.67
26.66
26.65
28.34
28.28
28.22
1
2
3
4
5
6

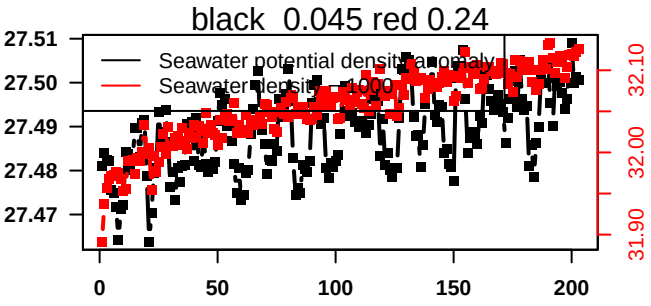

lovbio010b_102_03_06.txt
58
57
56
55
54
53
0
5
10
15
20
25
30
CDOM, [CN] / Points @ x s

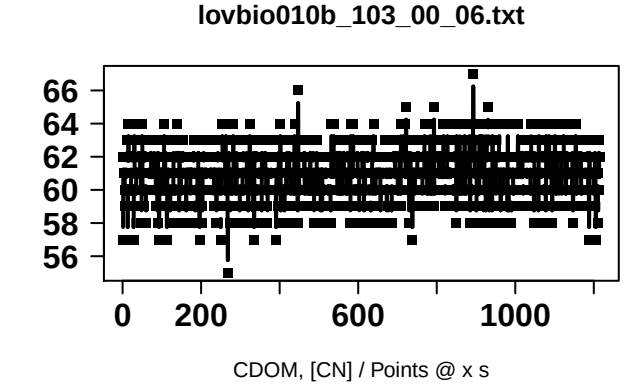

58
56
54
52
50
0
5
10
15
20
25
30
chl, [CN] / Points @ x s

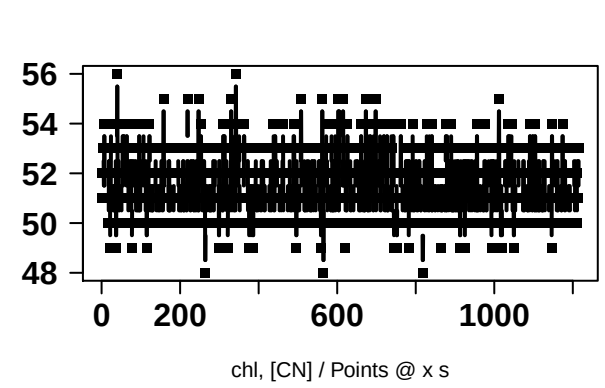

nb days: 0.2 freq: 9.7 min
180
170
160
150
140
130
120
0
5
10
15
20
25
30
beta, [CN] / Points @ x s

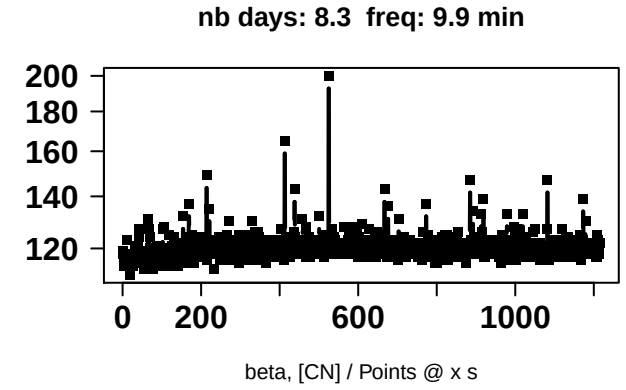

nb days: 0.2 freq: 53.3 min
13.078
13.076
13.074
13.072
13.070
13.068
1
2
3
4
5
6
c, [1/m] + 0.1 / Points @ x s

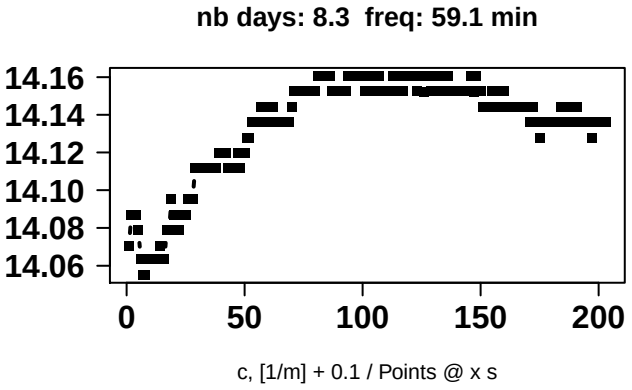

2015−07−11 19:26:30 2015−07−20 03:26:32
1020
1010
1000
990
980
970
0
500
1000
1500
Pressure in

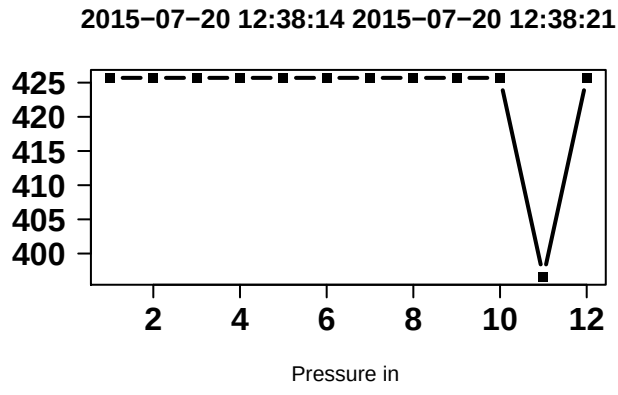

black 0.045 red 0.24
27.51
27.50
27.49
27.48
27.47
Seawater potential density anomaly
Seawater density − 1000
32.10
32.00
31.90
0
50
100
150
200

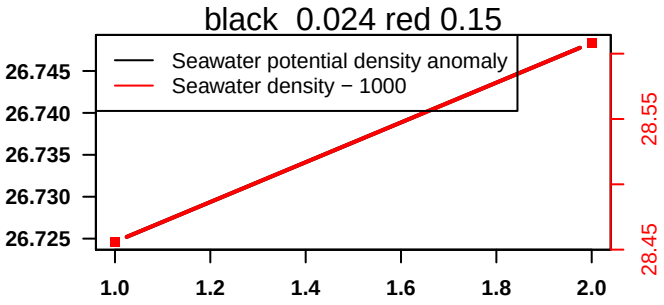

lovbio010b_103_00_06.txt
66
64
62
60
58
56
0
200
600
1000
CDOM, [CN] / Points @ x s

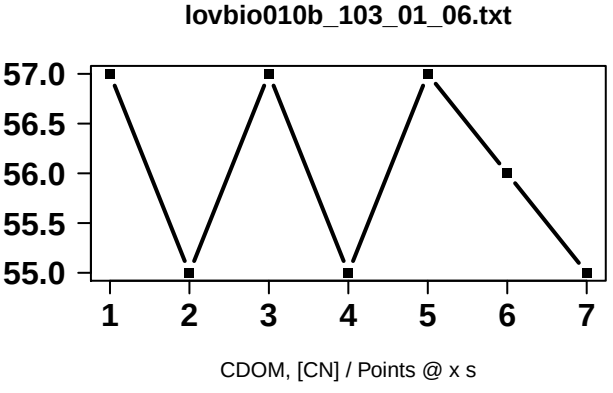

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

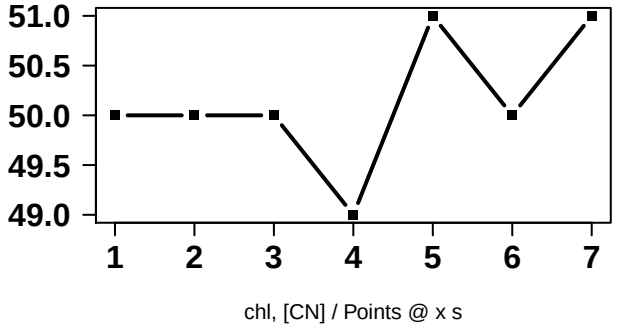

nb days: 8.3 freq: 9.9 min
200
180
160
140
120
0
200
600
1000
beta, [CN] / Points @ x s

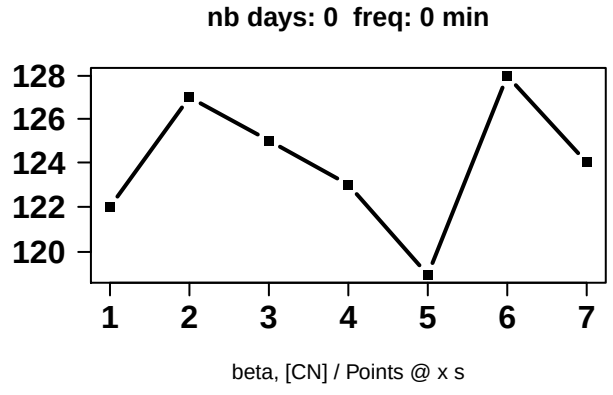

nb days: 8.3 freq: 59.1 min
14.16
14.14
14.12
14.10
14.08
14.06
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

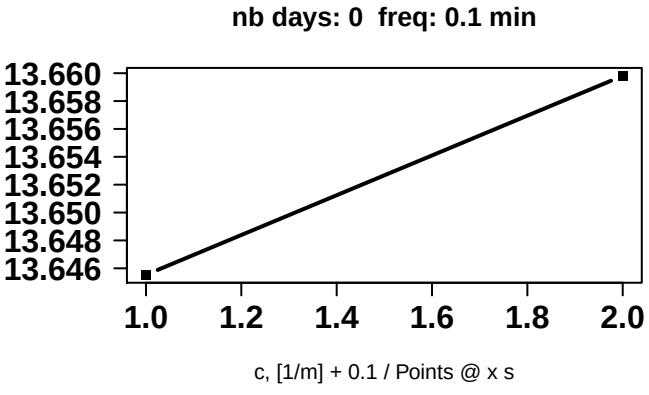

2015−07−20 12:38:14 2015−07−20 12:38:21
425
420
415
410
405
400
2
4
6
8
10
12
Pressure in

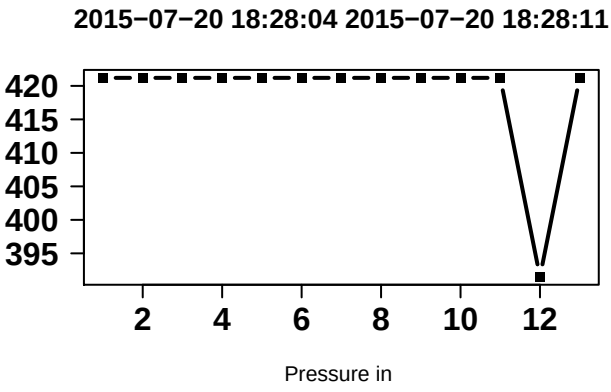

black 0.024 red 0.15
Seawater potential density anomaly
Seawater density − 1000
26.745
26.740
26.735
26.730
26.725
28.55
28.45
1.0
1.2
1.4
1.6
1.8
2.0

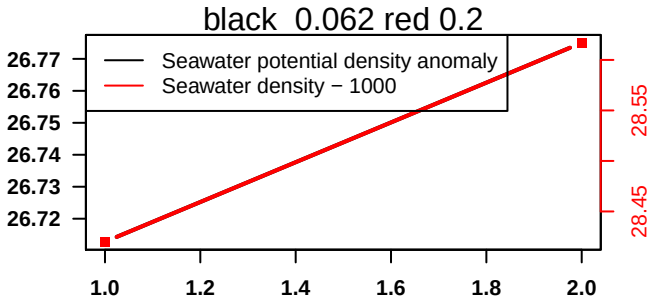

lovbio010b_103_01_06.txt
57.0
56.5
56.0
55.5
55.0
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

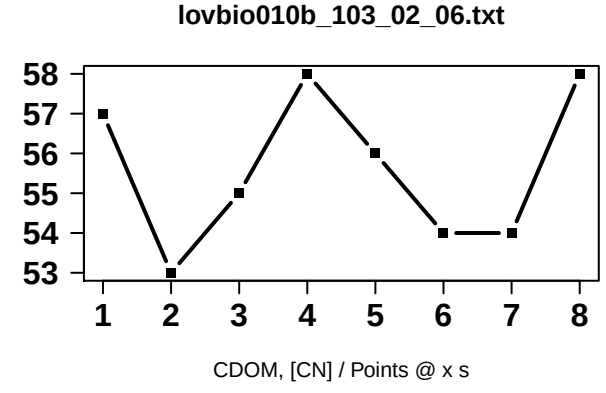

51.0
50.5
50.0
49.5
49.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

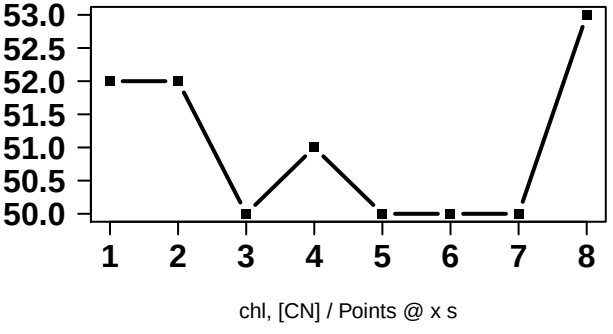

nb days: 0 freq: 0 min
128
126
124
122
120
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

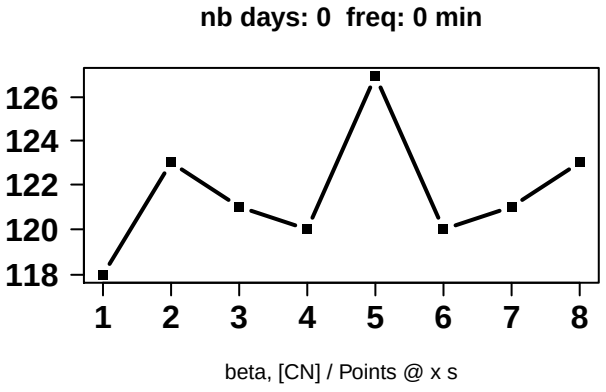

nb days: 0 freq: 0.1 min
13.660
13.658
13.656
13.654
13.652
13.650
13.648
13.646
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

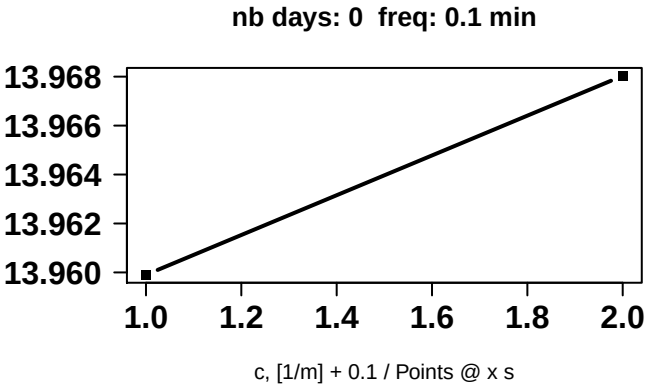

2015−07−20 18:28:04 2015−07−20 18:28:11
420
415
410
405
400
395
2
4
6
8
10
12
Pressure in

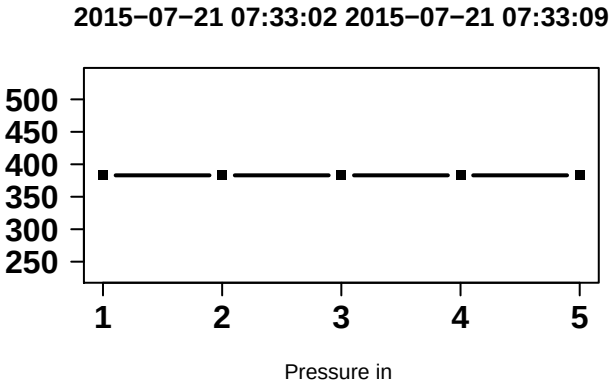

black 0.062 red 0.2
Seawater potential density anomaly
Seawater density − 1000
26.77
26.76
26.75
26.74
26.73
26.72
28.55
28.45
1.0
1.2
1.4
1.6
1.8
2.0

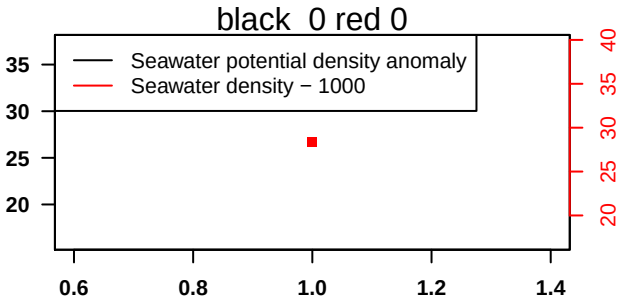

lovbio010b_103_02_06.txt
58
57
56
55
54
53
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

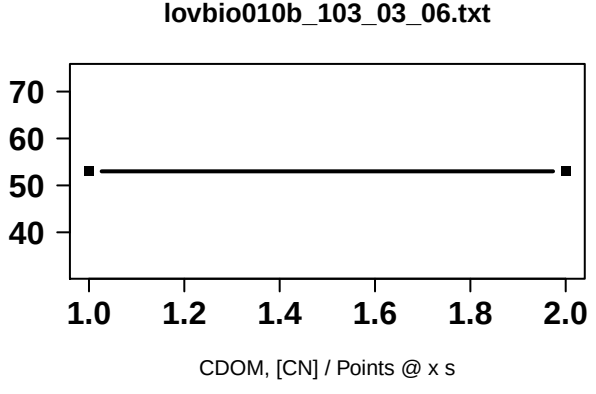

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

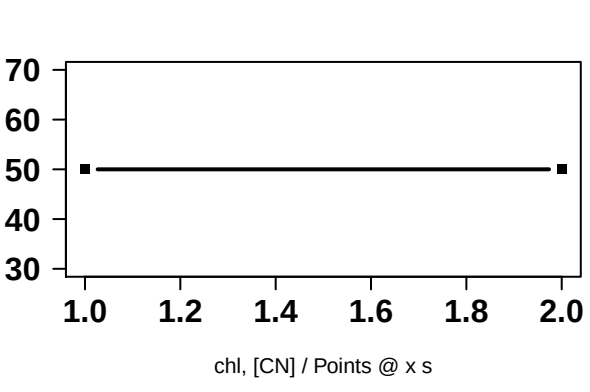

nb days: 0 freq: 0 min
126
124
122
120
118
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

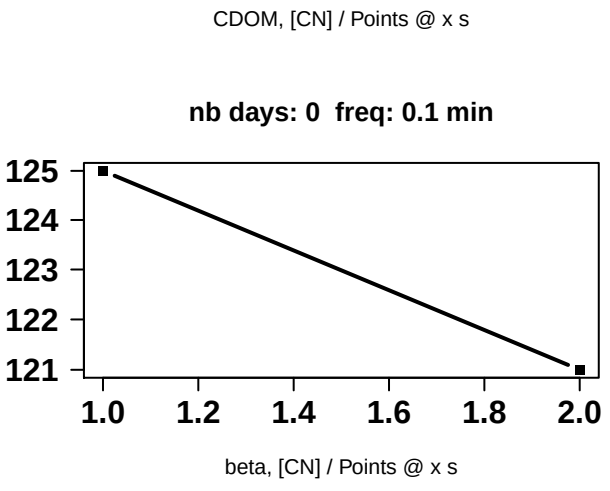

nb days: 0 freq: 0.1 min
13.968
13.966
13.964
13.962
13.960
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

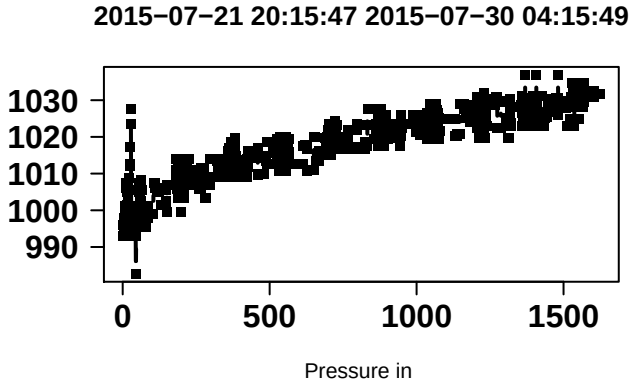

2015−07−21 07:33:02 2015−07−21 07:33:09
500
450
400
350
300
250
1
2
3
4
5
Pressure in

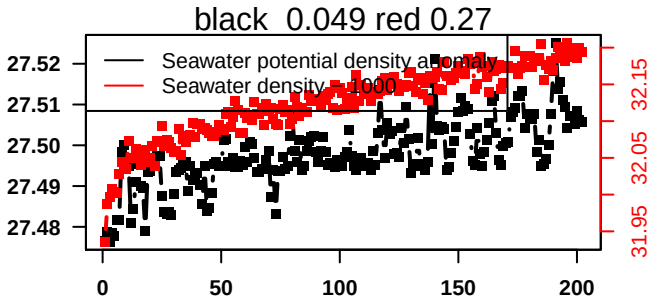

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

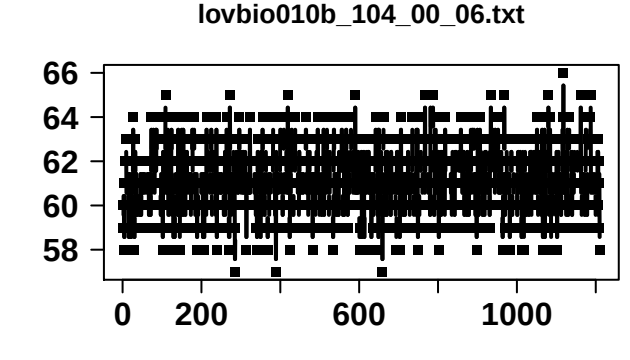

lovbio010b_103_03_06.txt
70
60
50
40
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

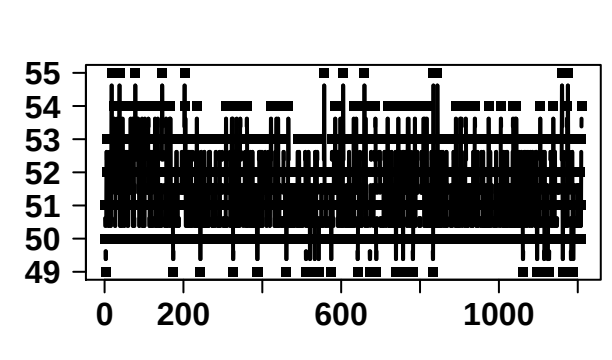

70
60
50
40
30
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

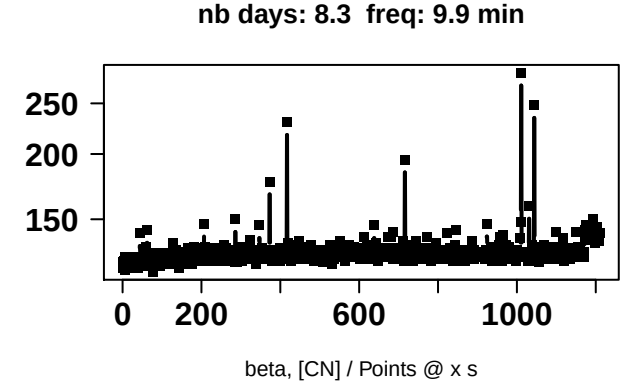

nb days: 0 freq: 0.1 min
125
124
123
122
121
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

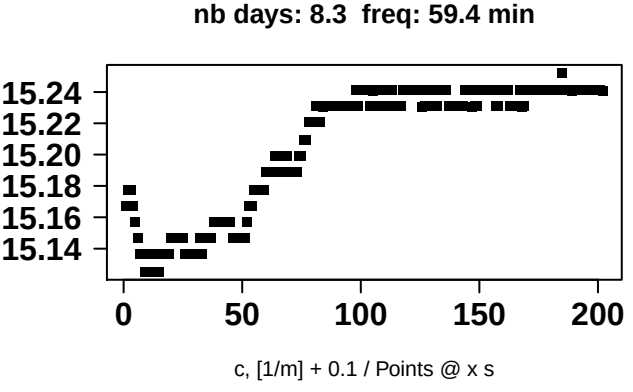

2015−07−21 20:15:47 2015−07−30 04:15:49
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

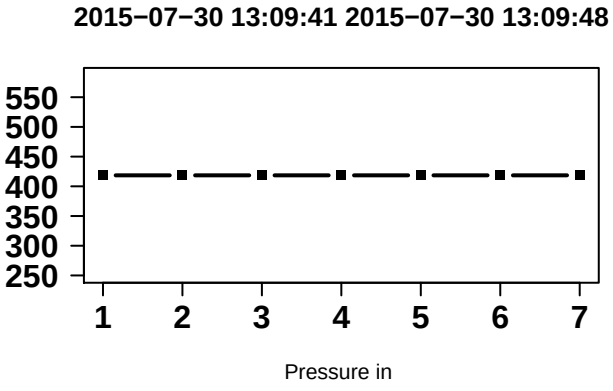

black 0.049 red 0.27
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
32.15
32.05
31.95
0
50
100
150
200

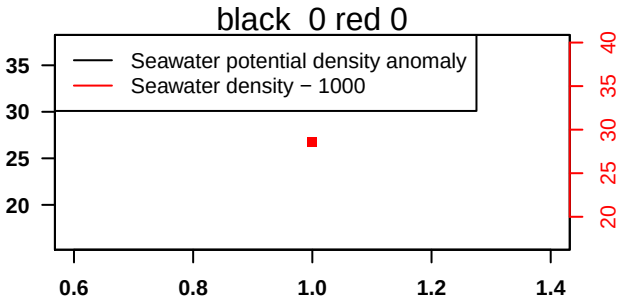

lovbio010b_104_00_06.txt
66
64
62
60
58
0
200
600
1000
CDOM, [CN] / Points @ x s

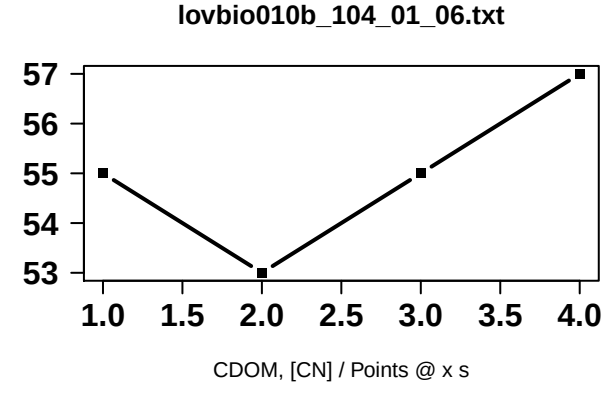

55
54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

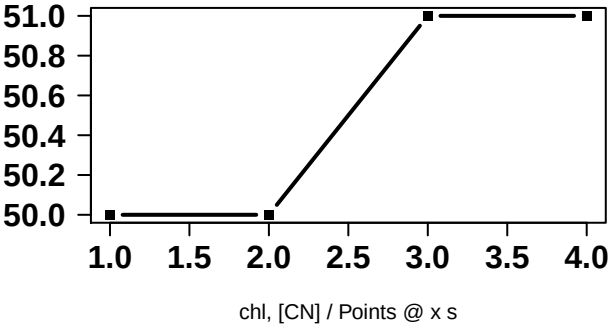

nb days: 8.3 freq: 9.9 min
250
200
150
0
200
600
1000
beta, [CN] / Points @ x s

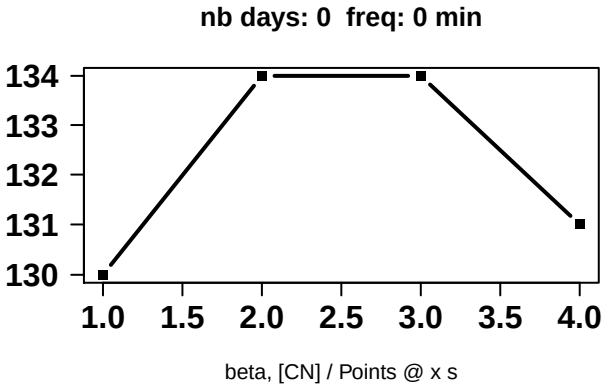

nb days: 8.3 freq: 59.4 min
15.24
15.22
15.20
15.18
15.16
15.14
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

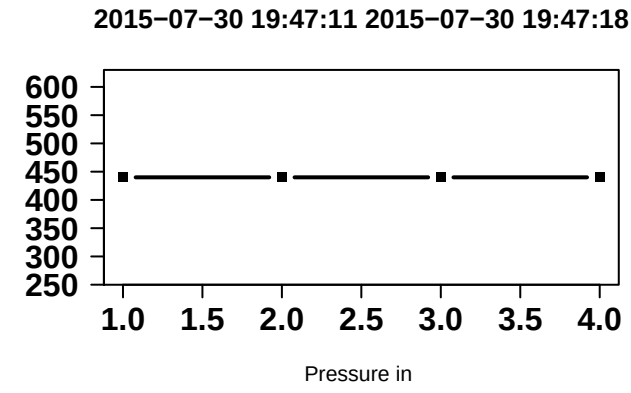

2015−07−30 13:09:41 2015−07−30 13:09:48
550
500
450
400
350
300
250
1
2
3
4
5
6
7
Pressure in

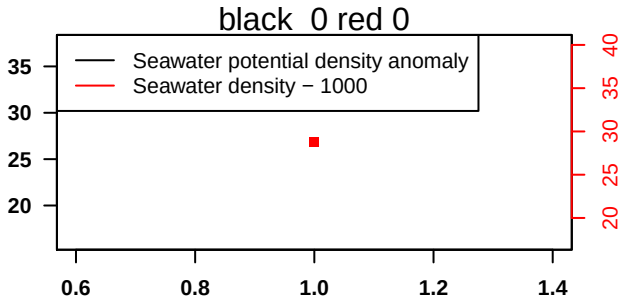

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

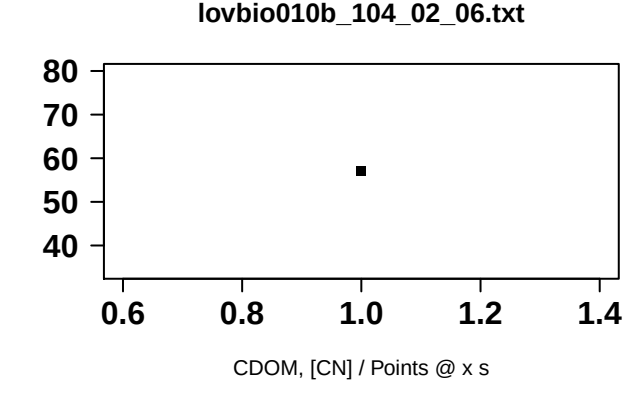

lovbio010b_104_01_06.txt
57
56
55
54
53
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

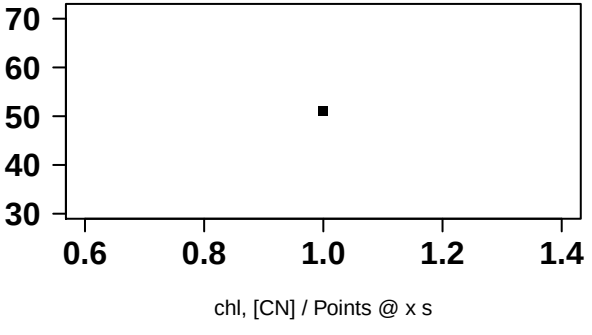

51.0
50.8
50.6
50.4
50.2
50.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

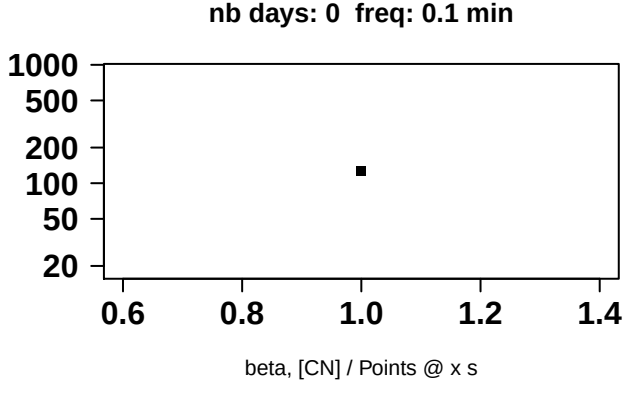

nb days: 0 freq: 0 min
134
133
132
131
130
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

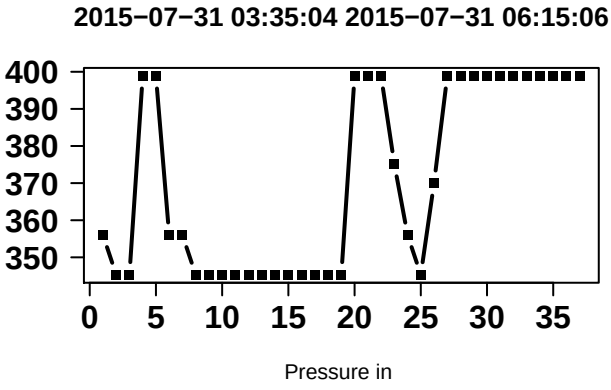

2015−07−30 19:47:11 2015−07−30 19:47:18
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

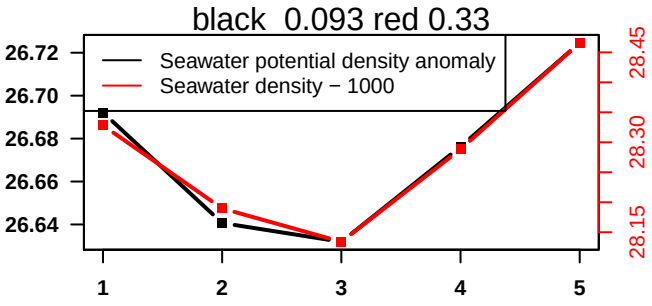

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

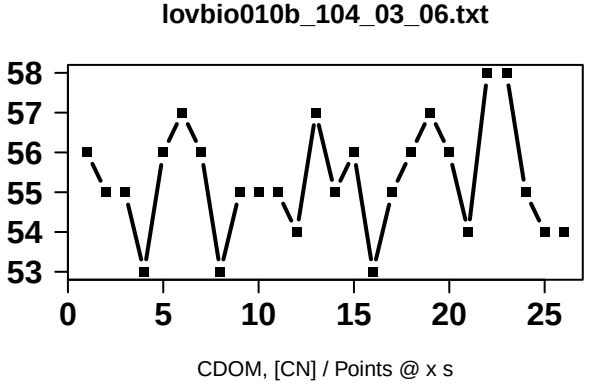

lovbio010b_104_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

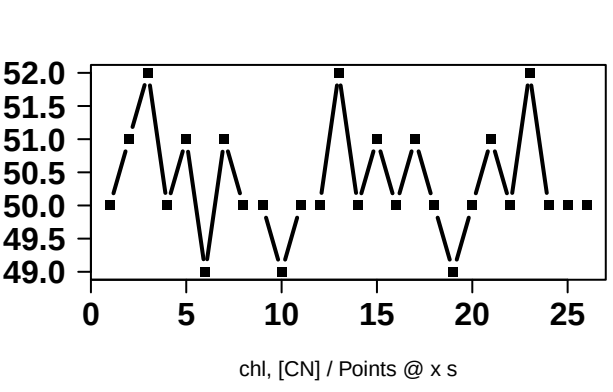

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

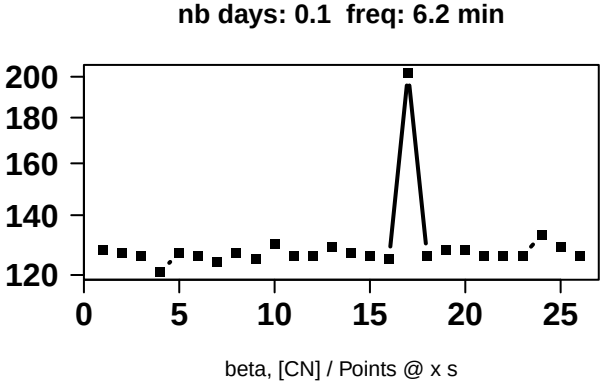

nb days: 0 freq: 0.1 min
1000
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

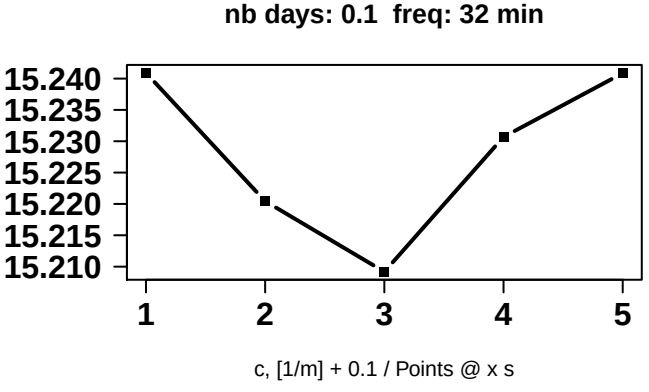

2015−07−31 03:35:04 2015−07−31 06:15:06
400
390
380
370
360
350
0
5
10
15
20
25
30
35
Pressure in

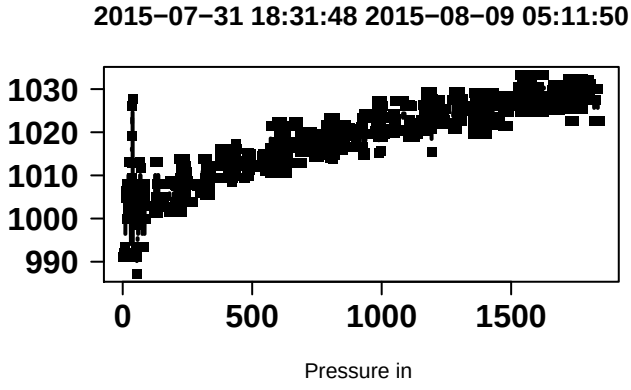

black 0.093 red 0.33
Seawater potential density anomaly
Seawater density − 1000
26.72
26.70
26.68
26.66
26.64
28.45
28.30
28.15
1
2
3
4
5

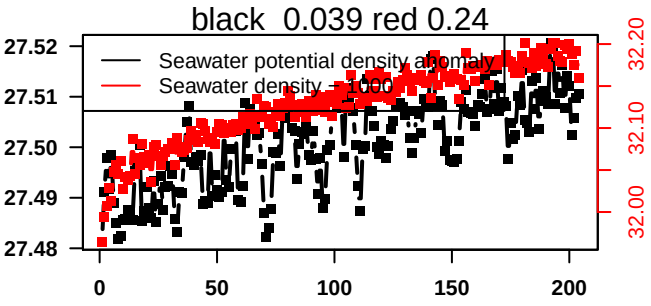

lovbio010b_104_03_06.txt
58
57
56
55
54
53
0
5
10
15
20
25
CDOM, [CN] / Points @ x s

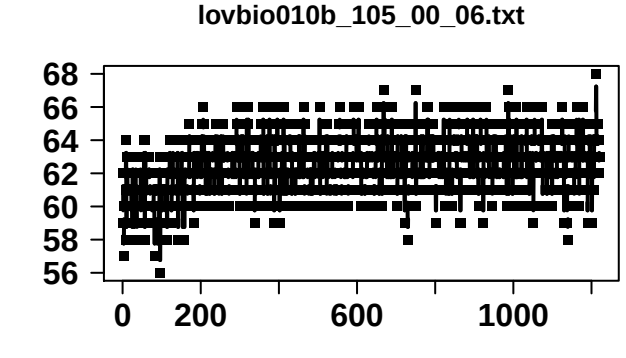

52.0
51.5
51.0
50.5
50.0
49.5
49.0
0
5
10
15
20
25
chl, [CN] / Points @ x s

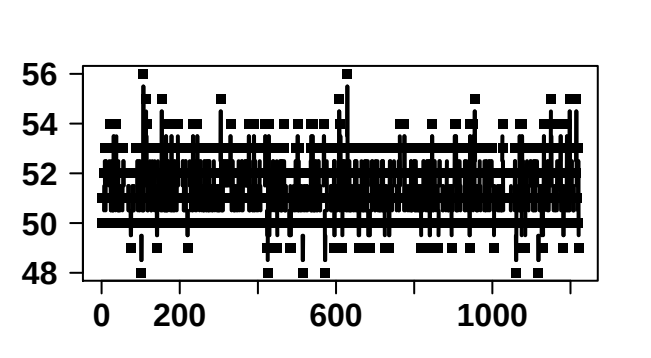

nb days: 0.1 freq: 6.2 min
200
180
160
140
120
0
5
10
15
20
25
beta, [CN] / Points @ x s

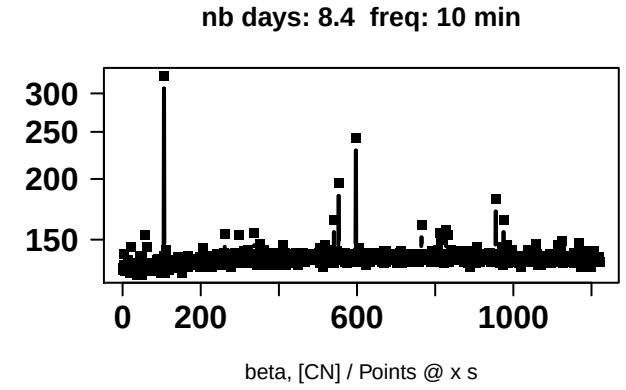

nb days: 0.1 freq: 32 min
15.240
15.235
15.230
15.225
15.220
15.215
15.210
1
2
3
4
5
c, [1/m] + 0.1 / Points @ x s

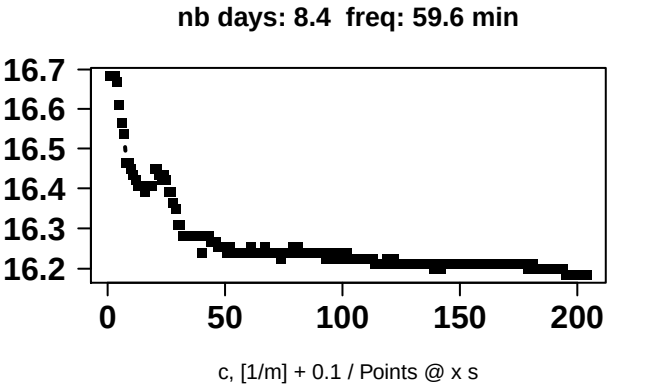

2015−07−31 18:31:48 2015−08−09 05:11:50
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

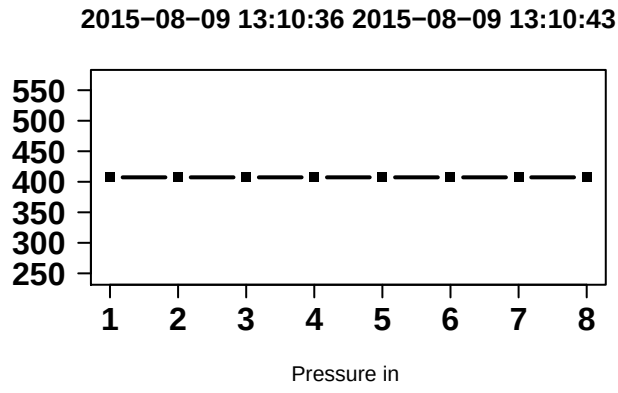

black 0.039 red 0.24
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
32.20
32.10
32.00
0
50
100
150
200

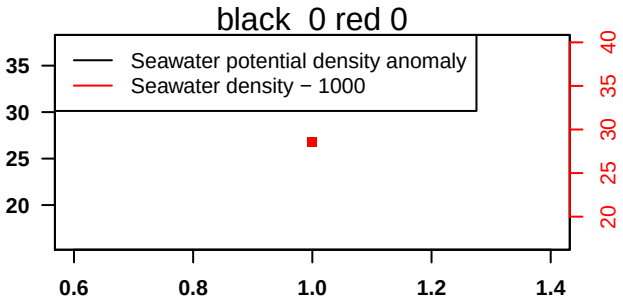

lovbio010b_105_00_06.txt
68
66
64
62
60
58
56
0
200
600
1000
CDOM, [CN] / Points @ x s

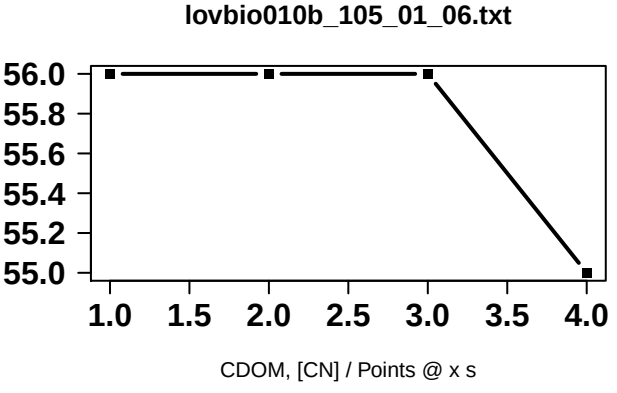

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

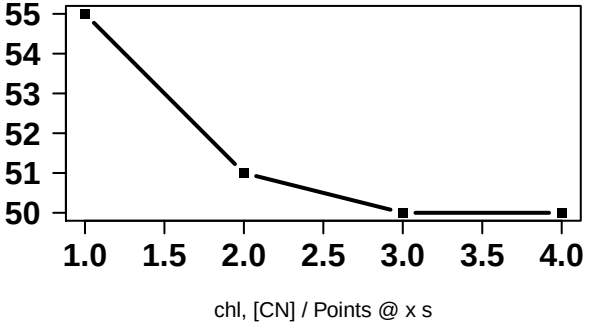

nb days: 8.4 freq: 10 min
300
250
200
150
0
200
600
1000
beta, [CN] / Points @ x s

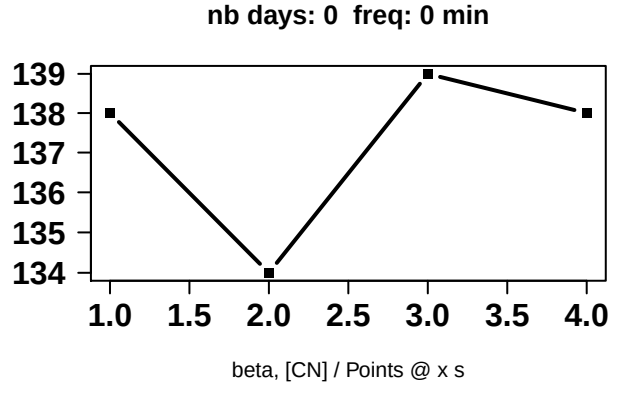

nb days: 8.4 freq: 59.6 min
16.7
16.6
16.5
16.4
16.3
16.2
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

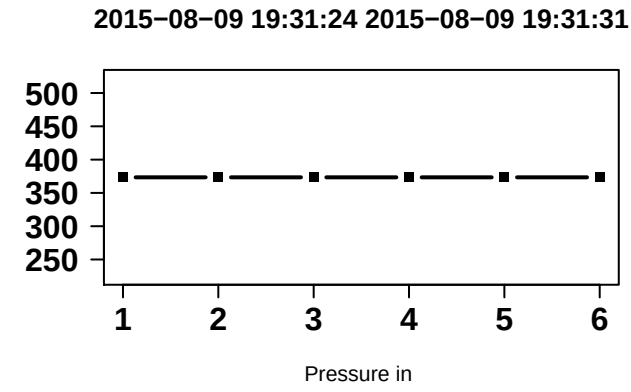

2015−08−09 13:10:36 2015−08−09 13:10:43
550
500
450
400
350
300
250
1
2
3
4
5
6
7
8
Pressure in

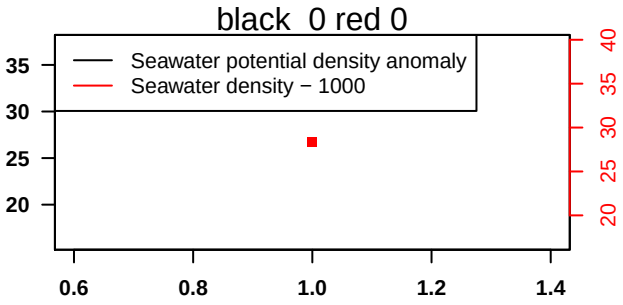

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

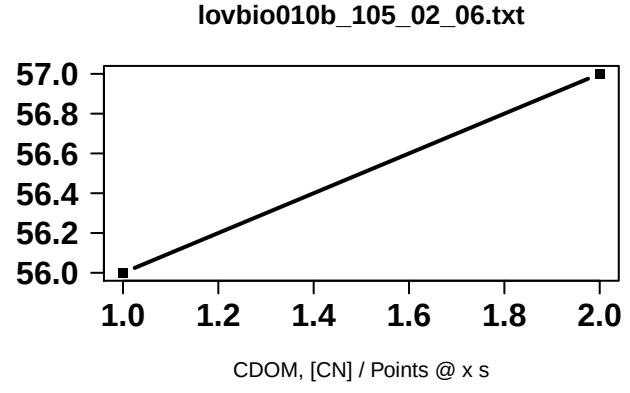

lovbio010b_105_01_06.txt
56.0
55.8
55.6
55.4
55.2
55.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

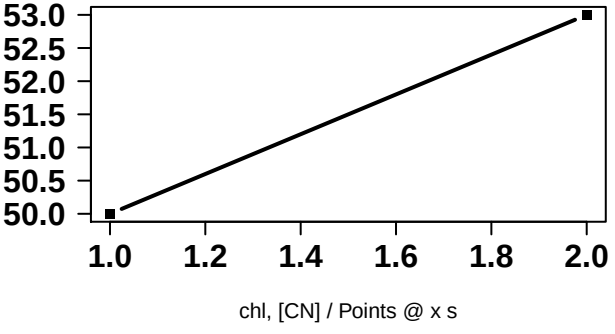

55
54
53
52
51
50
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

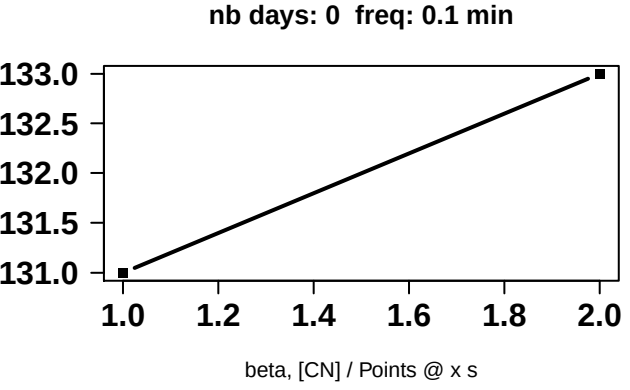

nb days: 0 freq: 0 min
139
138
137
136
135
134
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

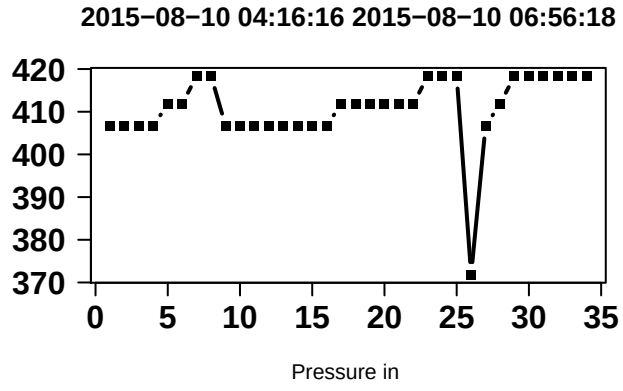

2015−08−09 19:31:24 2015−08−09 19:31:31
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

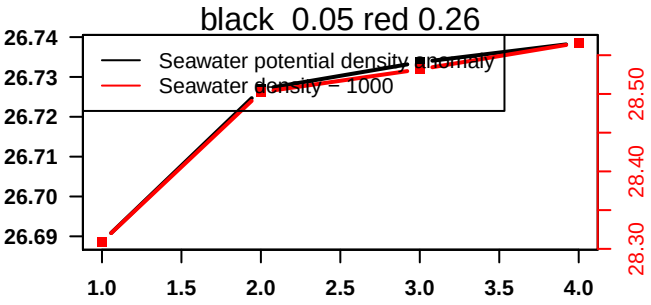

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

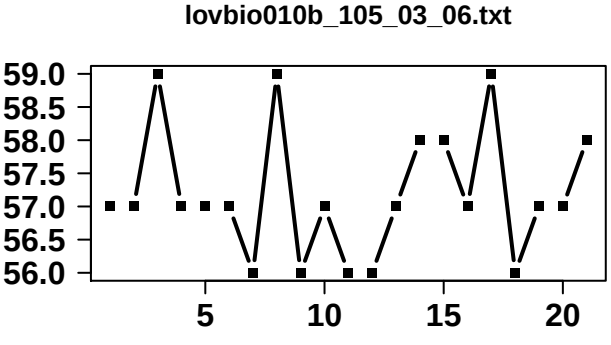

lovbio010b_105_02_06.txt
57.0
56.8
56.6
56.4
56.2
56.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

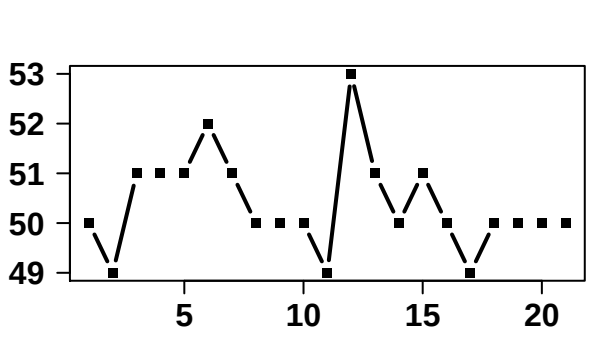

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

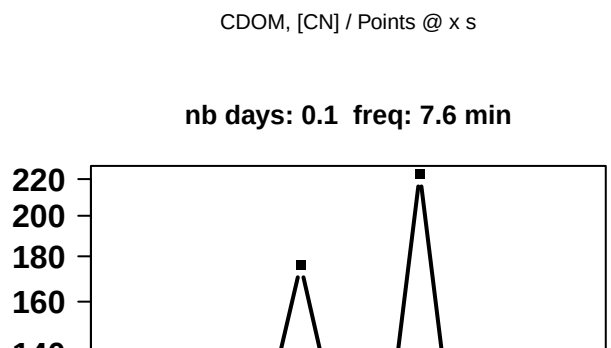

nb days: 0 freq: 0.1 min
133.0
132.5
132.0
131.5
131.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

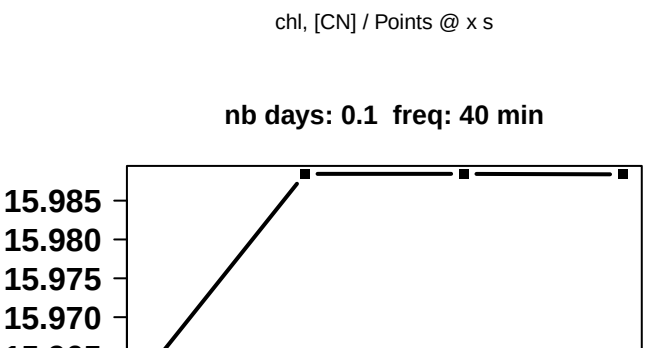

2015−08−10 04:16:16 2015−08−10 06:56:18
420
410
400
390
380
370
0
5
10
15
20
25
30
35
Pressure in

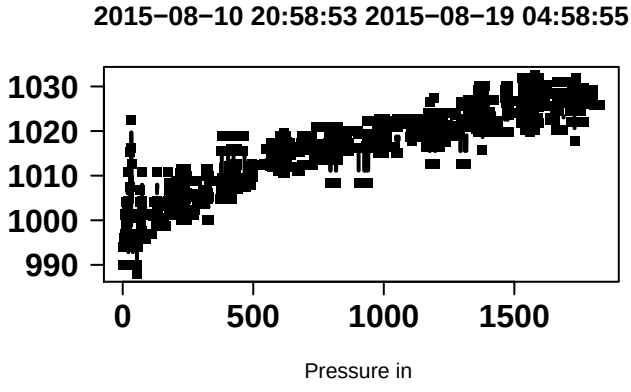

black 0.05 red 0.26
Seawater potential density anomaly
Seawater density − 1000
26.74
26.73
26.72
26.71
26.70
26.69
28.50
28.40
28.30
1.0
1.5
2.0
2.5
3.0
3.5
4.0

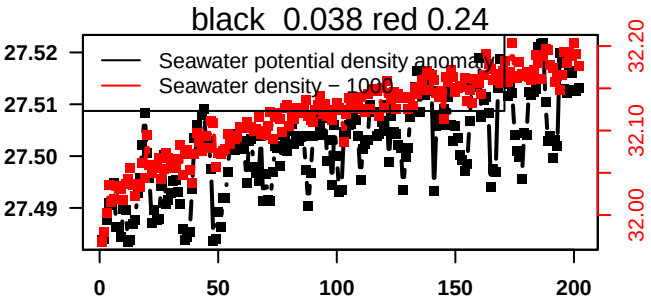

lovbio010b_105_03_06.txt
59.0
58.5
58.0
57.5
57.0
56.5
56.0
5
10
15
20
CDOM, [CN] / Points @ x s

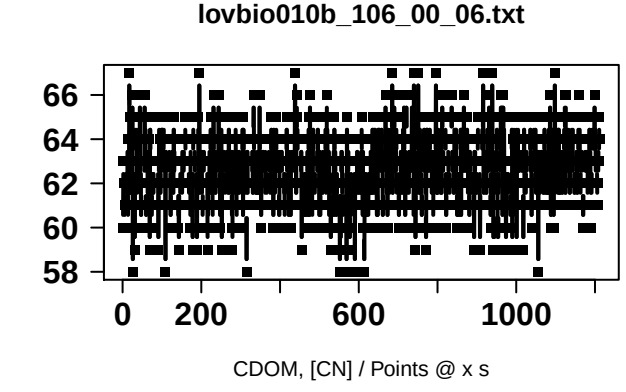

53
52
51
50
49
5
10
15
20
chl, [CN] / Points @ x s

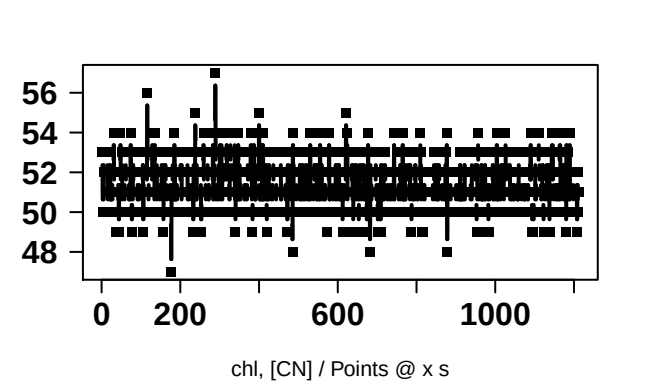

nb days: 0.1 freq: 7.6 min
220
200
180
160
140
5
10
15
20
beta, [CN] / Points @ x s

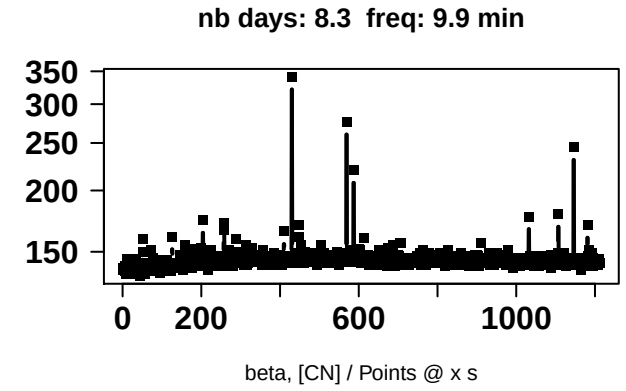

nb days: 0.1 freq: 40 min
15.985
15.980
15.975
15.970
15.965
1.0
1.5
2.0
2.5
3.0
3.5
4.0
c, [1/m] + 0.1 / Points @ x s

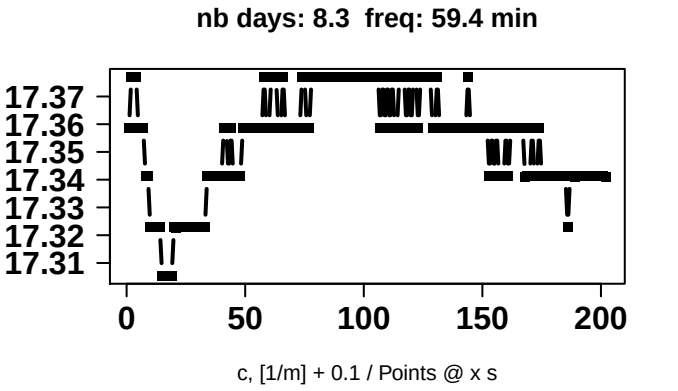

2015−08−10 20:58:53 2015−08−19 04:58:55
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

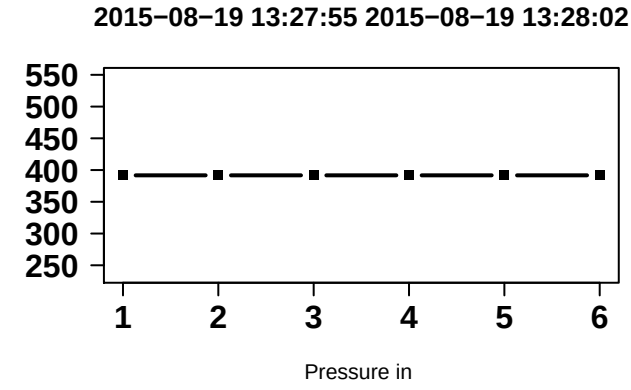

black 0.038 red 0.24
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
32.20
32.10
32.00
0
50
100
150
200

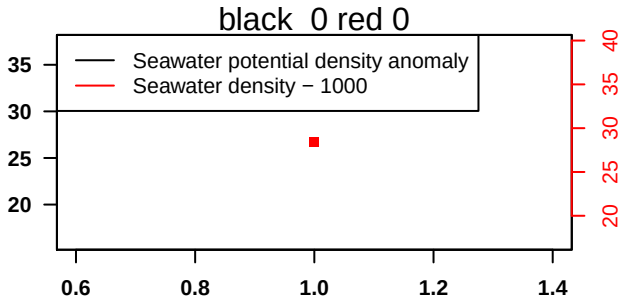

lovbio010b_106_00_06.txt
66
64
62
60
58
0
200
600
1000
CDOM, [CN] / Points @ x s

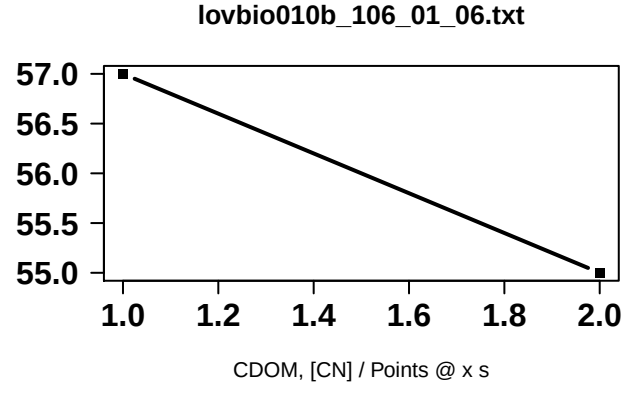

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

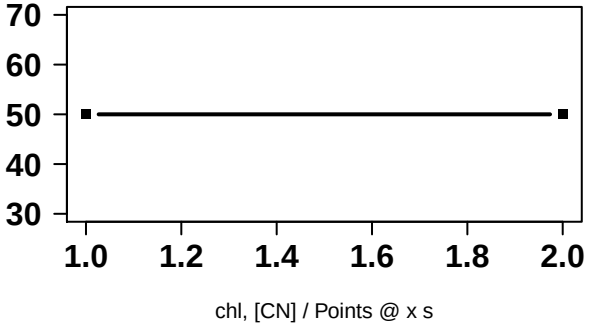

nb days: 8.3 freq: 9.9 min
350
300
250
200
150
0
200
600
1000
beta, [CN] / Points @ x s

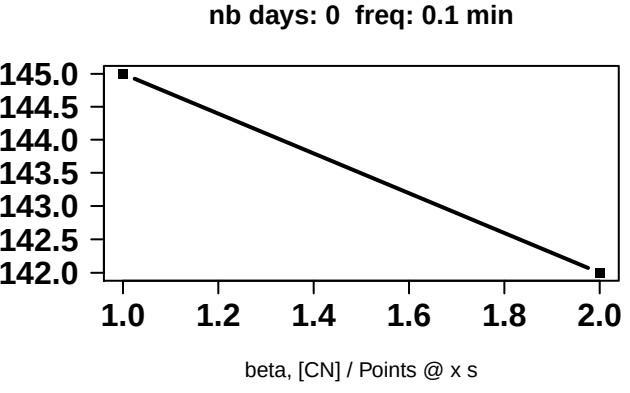

nb days: 8.3 freq: 59.4 min
17.37
17.36
17.35
17.34
17.33
17.32
17.31
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

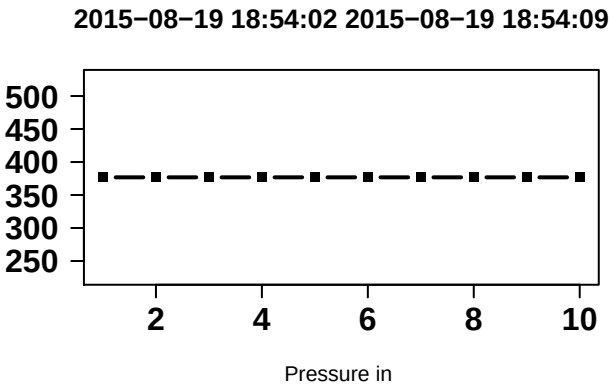

2015−08−19 13:27:55 2015−08−19 13:28:02
550
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

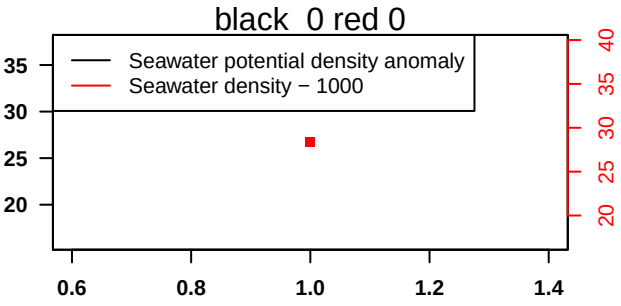

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

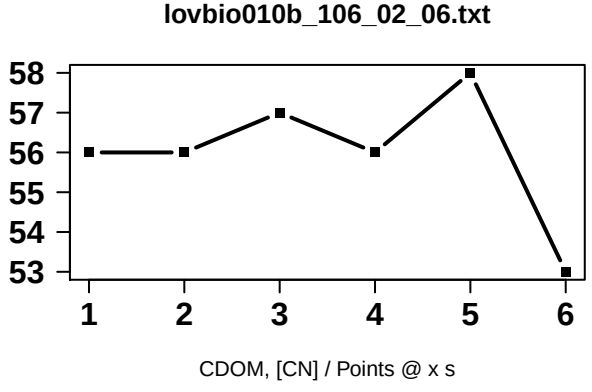

lovbio010b_106_01_06.txt
57.0
56.5
56.0
55.5
55.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

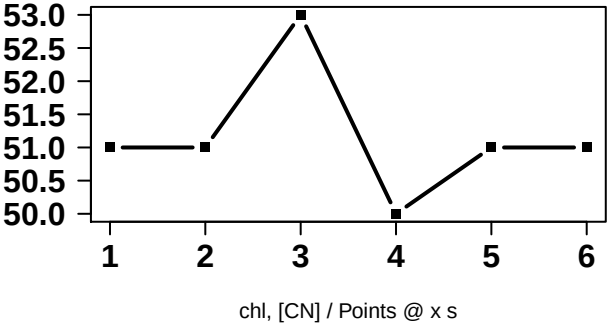

70
60
50
40
30
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

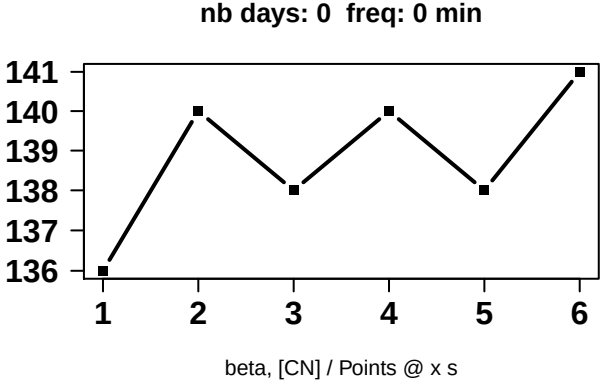

nb days: 0 freq: 0.1 min
145.0
144.5
144.0
143.5
143.0
142.5
142.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

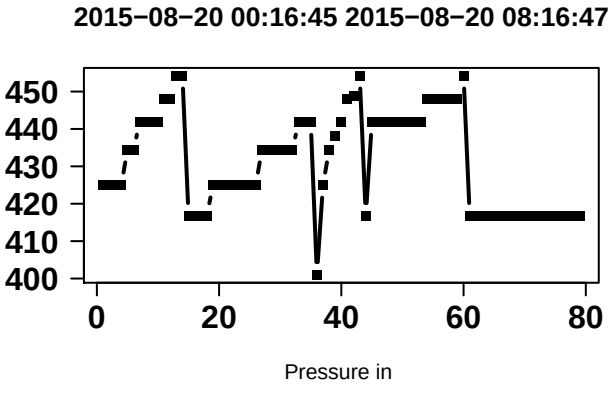

2015−08−19 18:54:02 2015−08−19 18:54:09
500
450
400
350
300
250
2
4
6
8
10
Pressure in

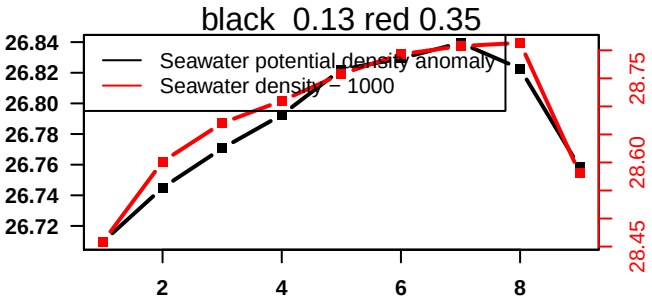

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

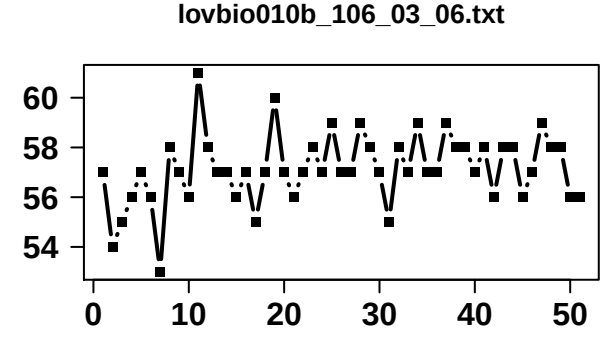

lovbio010b_106_02_06.txt
58
57
56
55
54
53
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

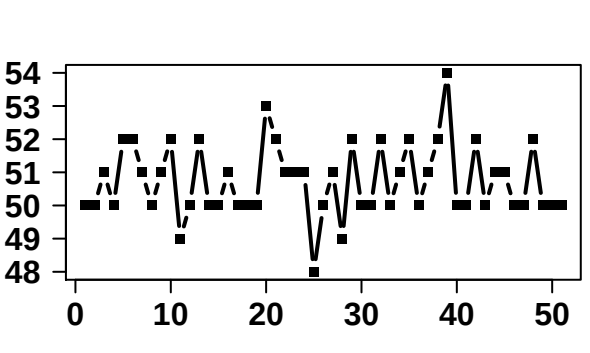

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

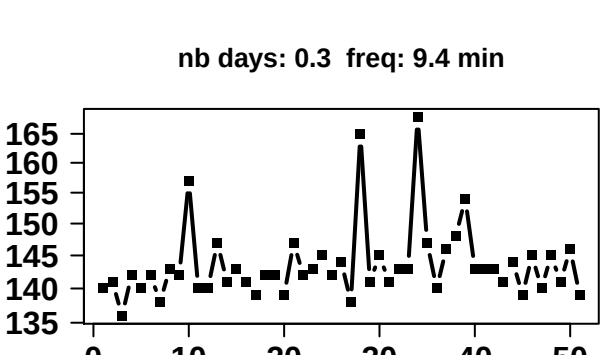

nb days: 0 freq: 0 min
141
140
139
138
137
136
1
2
3
4
5
6
beta, [CN] / Points @ x s

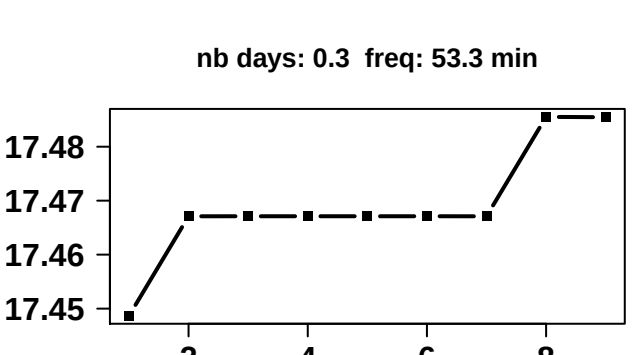

2015−08−20 00:16:45 2015−08−20 08:16:47
450
440
430
420
410
400
0
20
40
60
80
Pressure in

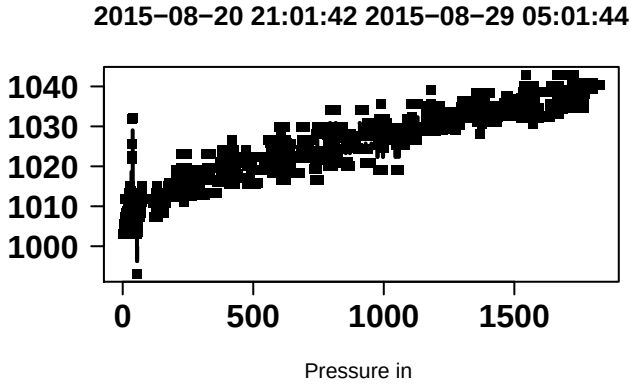

black 0.13 red 0.35
Seawater potential density anomaly
Seawater density − 1000
26.84
26.82
26.80
26.78
26.76
26.74
26.72
2
4
6
8
28.75
28.60
28.45

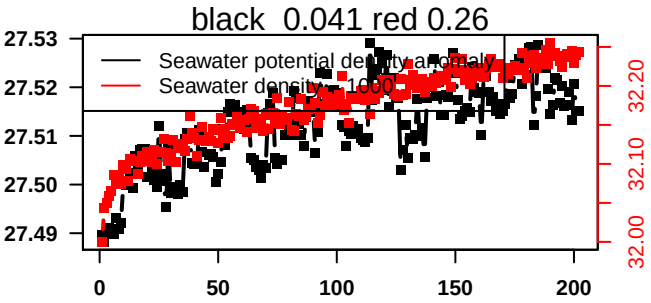

lovbio010b_106_03_06.txt
60
58
56
54
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

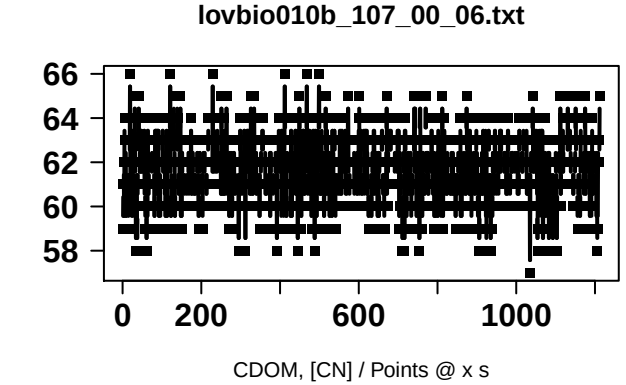

54
53
52
51
50
49
48
0
10
20
30
40
50
chl, [CN] / Points @ x s

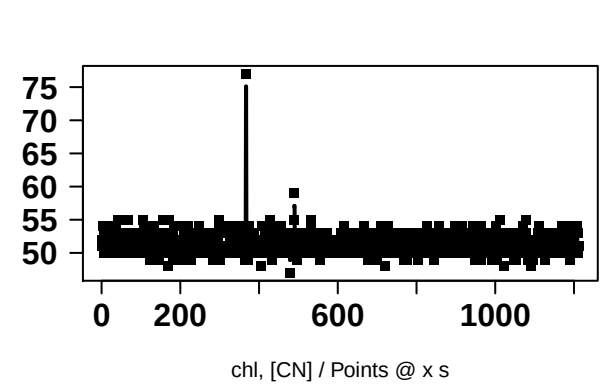

nb days: 0.3 freq: 9.4 min
165
160
155
150
145
140
135
0
10
20
30
40
50
beta, [CN] / Points @ x s

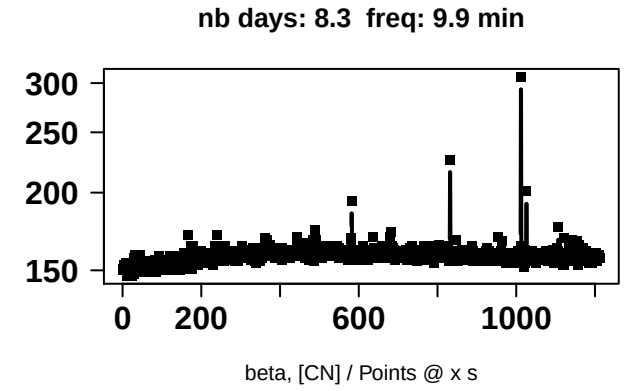

nb days: 0.3 freq: 53.3 min
17.48
17.47
17.46
17.45
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

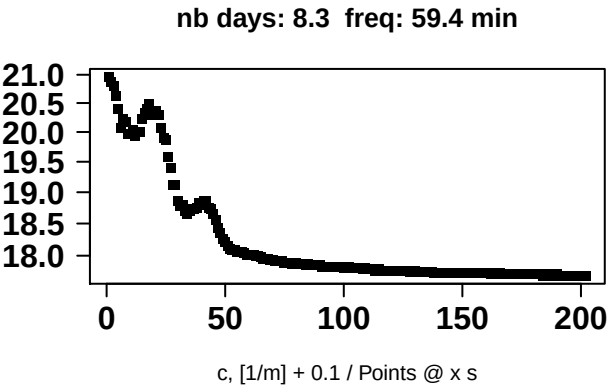

2015−08−20 21:01:42 2015−08−29 05:01:44
1040
1030
1020
1010
1000
0
500
1000
1500
Pressure in

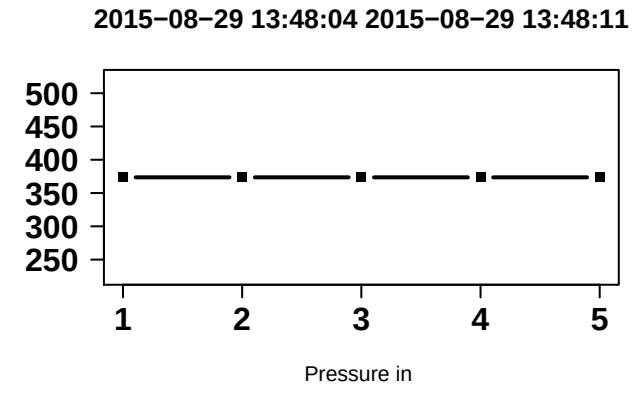

black 0.041 red 0.26
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
32.20
32.10
32.00
0
50
100
150
200

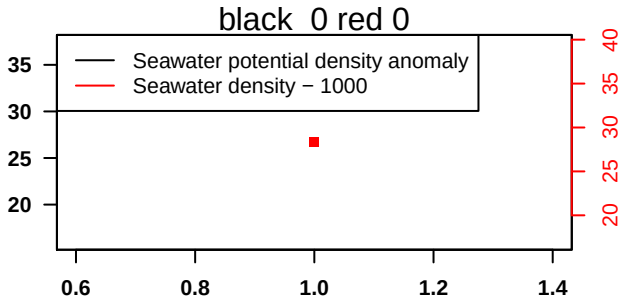

lovbio010b_107_00_06.txt
66
64
62
60
58
0
200
600
1000
CDOM, [CN] / Points @ x s

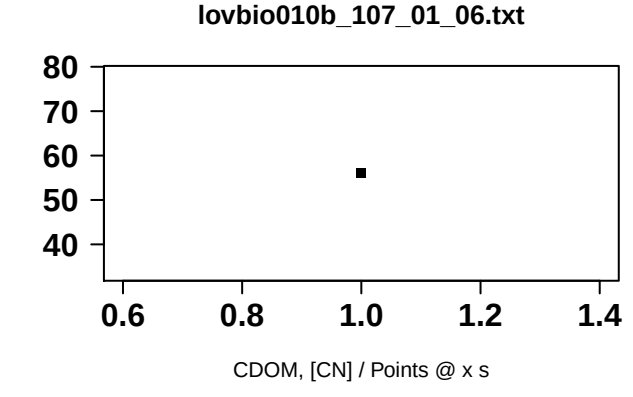

75
70
65
60
55
50
0
200
600
1000
chl, [CN] / Points @ x s

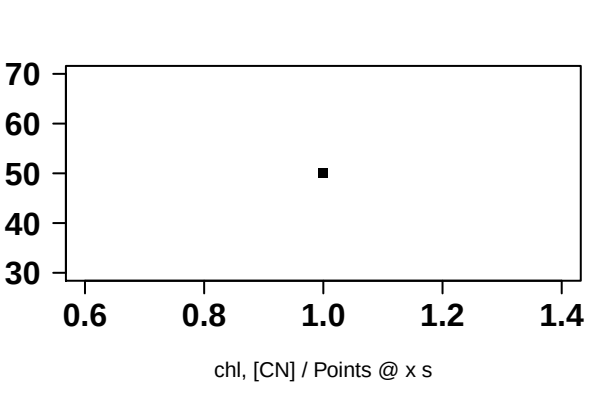

nb days: 8.3 freq: 9.9 min
300
250
200
150
0
200
600
1000
beta, [CN] / Points @ x s

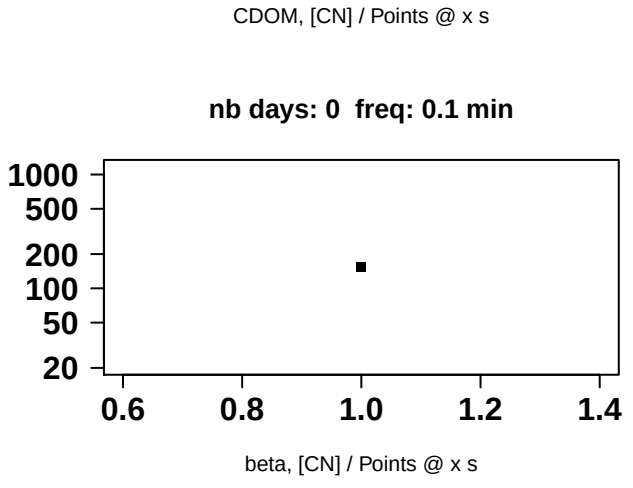

nb days: 8.3 freq: 59.4 min
21.0
20.5
20.0
19.5
19.0
18.5
18.0
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

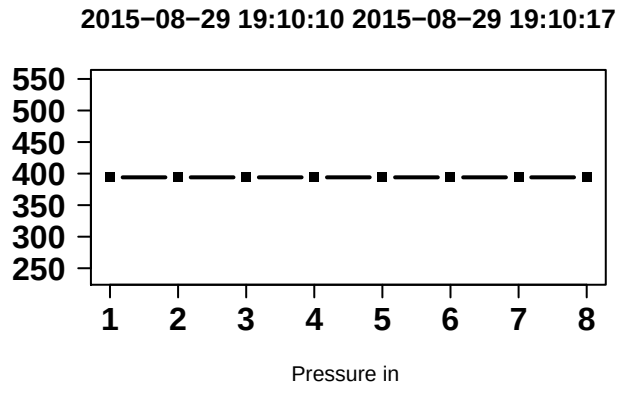

2015−08−29 13:48:04 2015−08−29 13:48:11
500
450
400
350
300
250
1
2
3
4
5
Pressure in

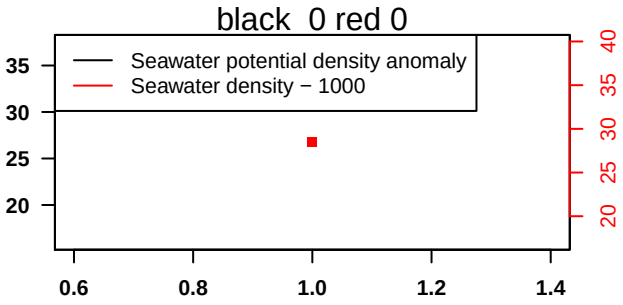

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

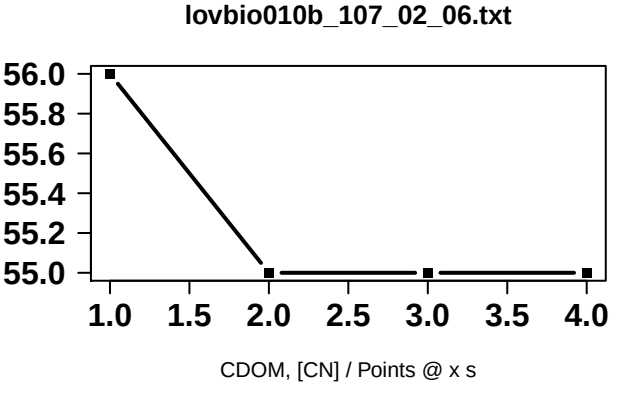

lovbio010b_107_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

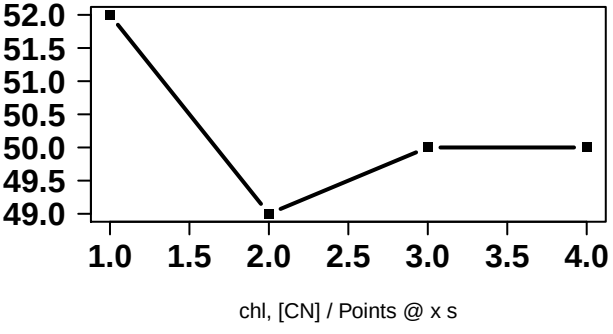

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

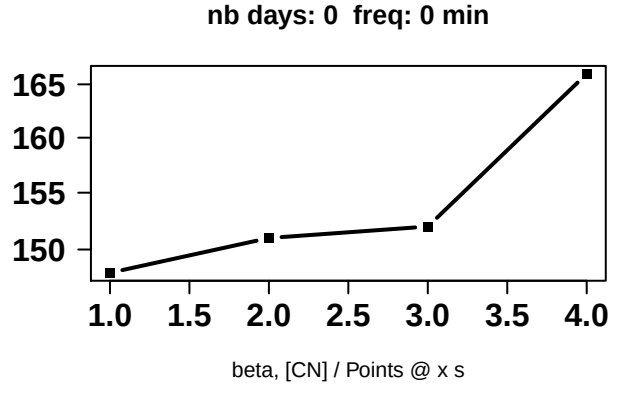

nb days: 0 freq: 0.1 min
1000
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

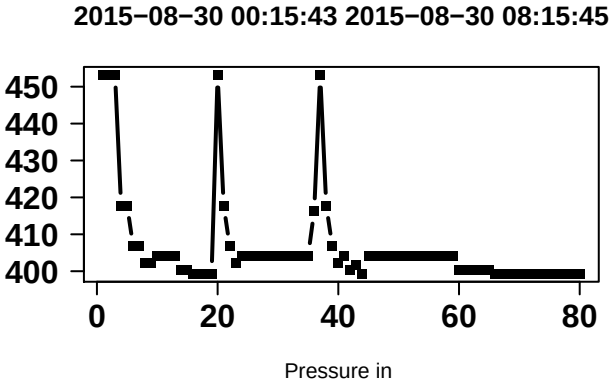

2015−08−29 19:10:10 2015−08−29 19:10:17
550
500
450
400
350
300
250
1
2
3
4
5
6
7
8
Pressure in

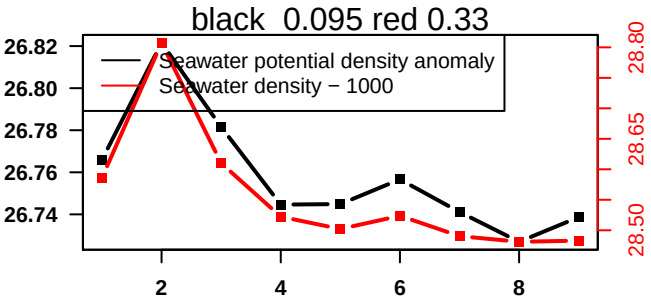

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

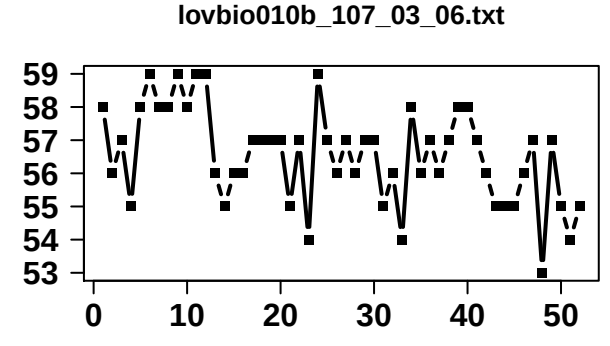

lovbio010b_107_02_06.txt
56.0
55.8
55.6
55.4
55.2
55.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

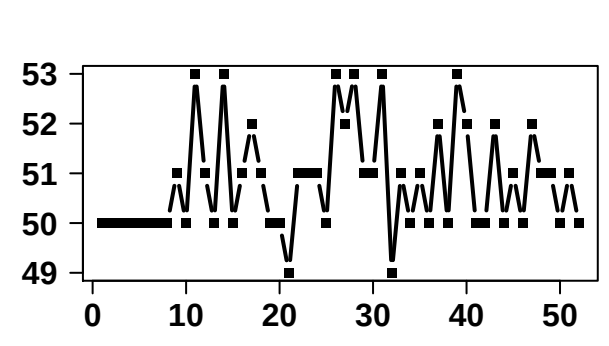

52.0
51.5
51.0
50.5
50.0
49.5
49.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

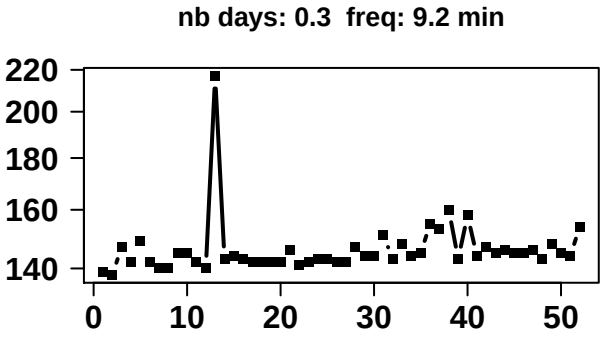

nb days: 0 freq: 0 min
165
160
155
150
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

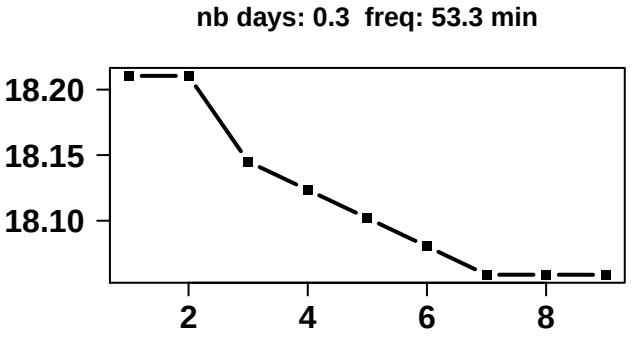

2015−08−30 00:15:43 2015−08−30 08:15:45
450
440
430
420
410
400
0
20
40
60
80
Pressure in

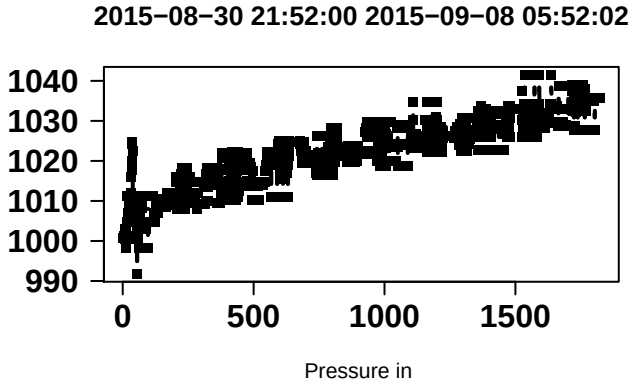

black 0.095 red 0.33
Seawater potential density anomaly
Seawater density − 1000
26.82
26.80
26.78
26.76
26.74
28.80
28.65
28.50
2
4
6
8

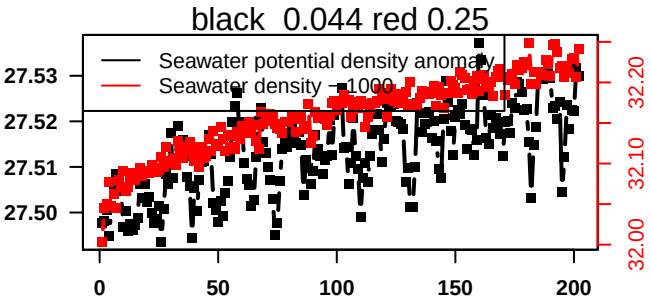

lovbio010b_107_03_06.txt
59
58
57
56
55
54
53
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

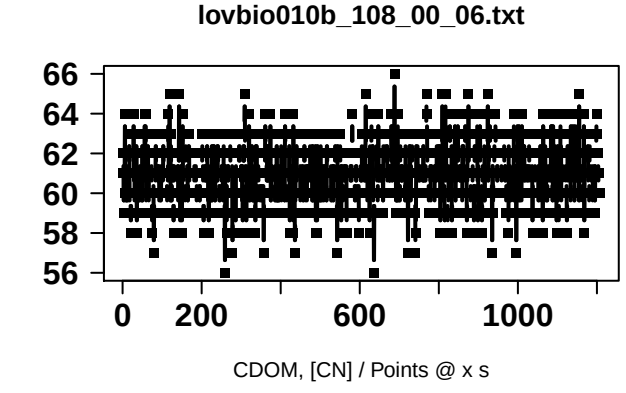

53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

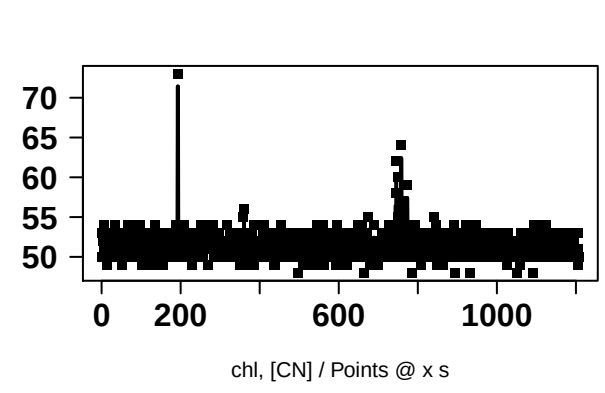

nb days: 0.3 freq: 9.2 min
220
200
180
160
140
0
10
20
30
40
50
beta, [CN] / Points @ x s

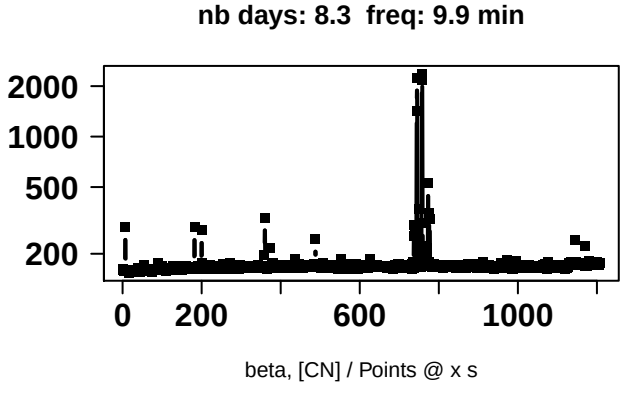

nb days: 0.3 freq: 53.3 min
18.20
18.15
18.10
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

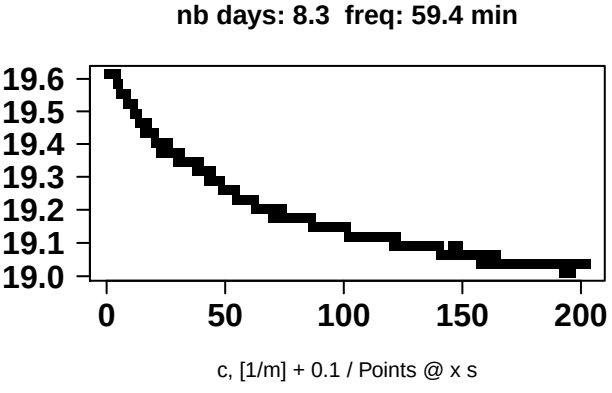

2015−08−30 21:52:00 2015−09−08 05:52:02
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

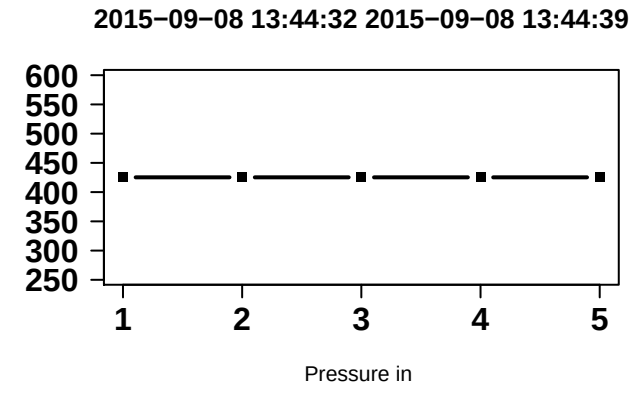

black 0.044 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
32.20
32.10
32.00
0
50
100
150
200

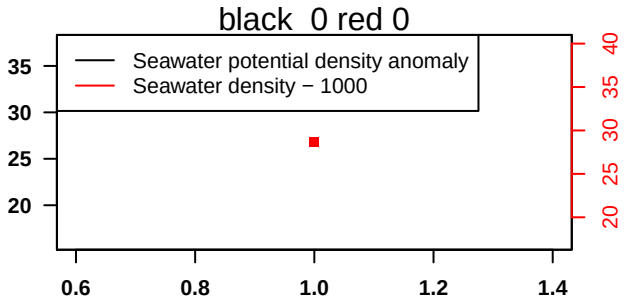

lovbio010b_108_00_06.txt
66
64
62
60
58
56
0
200
600
1000
CDOM, [CN] / Points @ x s

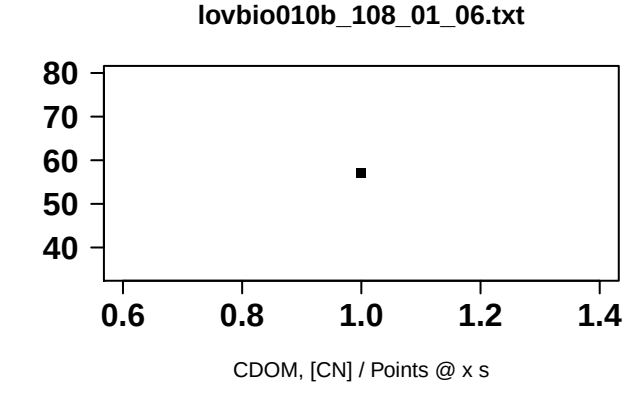

70
65
60
55
50
0
200
600
1000
chl, [CN] / Points @ x s

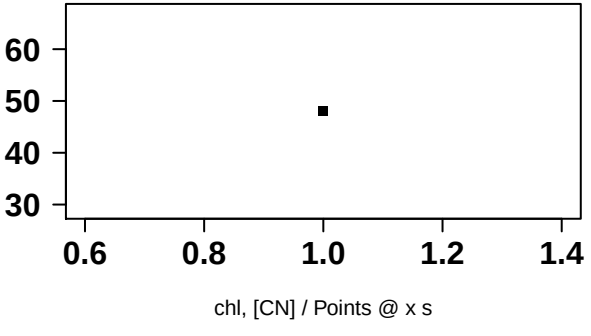

nb days: 8.3 freq: 9.9 min
2000
1000
500
200
0
200
600
1000
beta, [CN] / Points @ x s

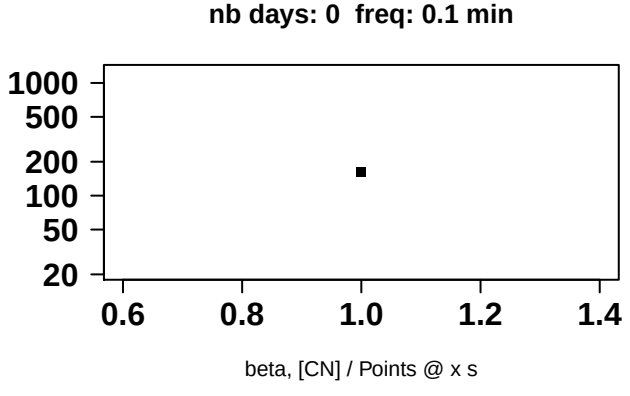

nb days: 8.3 freq: 59.4 min
19.6
19.5
19.4
19.3
19.2
19.1
19.0
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

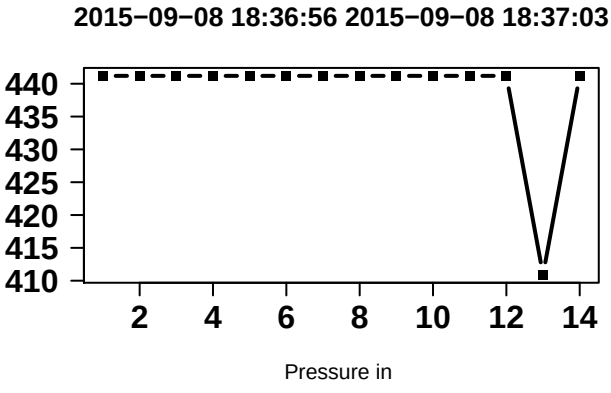

2015−09−08 13:44:32 2015−09−08 13:44:39
600
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

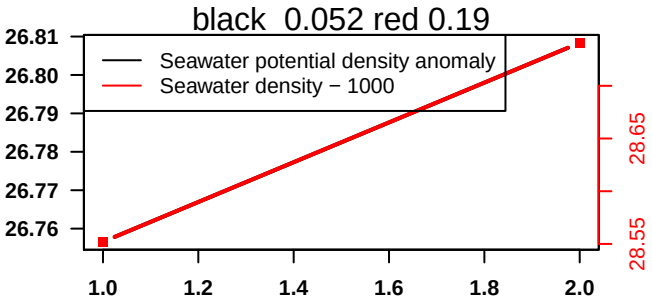

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

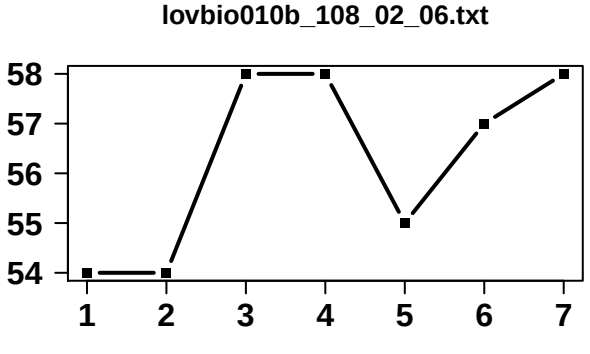

lovbio010b_108_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

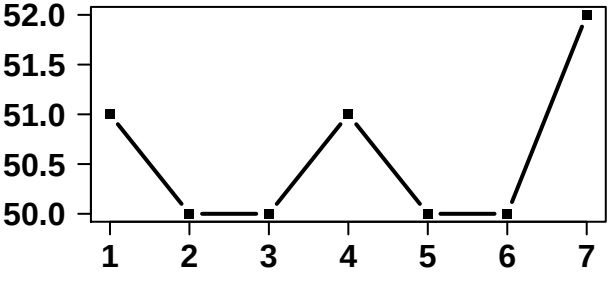

60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

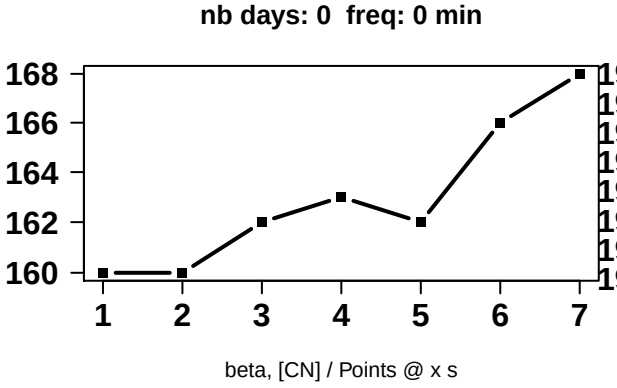

nb days: 0 freq: 0.1 min
1000
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

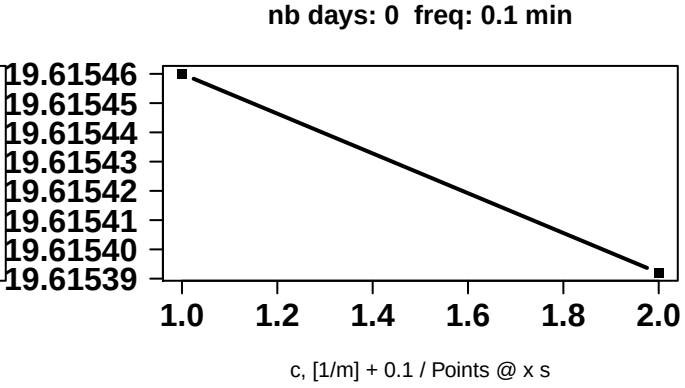

2015−09−08 18:36:56 2015−09−08 18:37:03
440
435
430
425
420
415
410
2
4
6
8
10
12
14
Pressure in

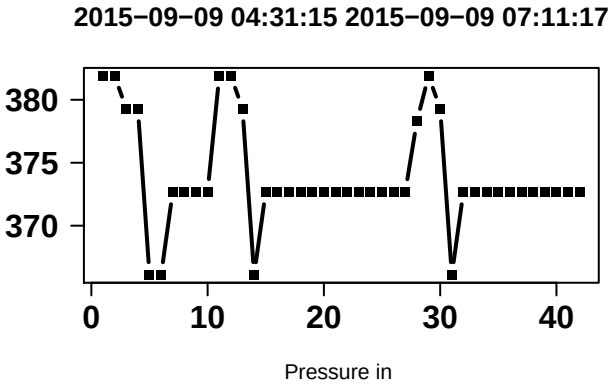

black 0.052 red 0.19
Seawater potential density anomaly
Seawater density − 1000
26.81
26.80
26.79
26.78
26.77
26.76
28.65
28.55
1.0
1.2
1.4
1.6
1.8
2.0

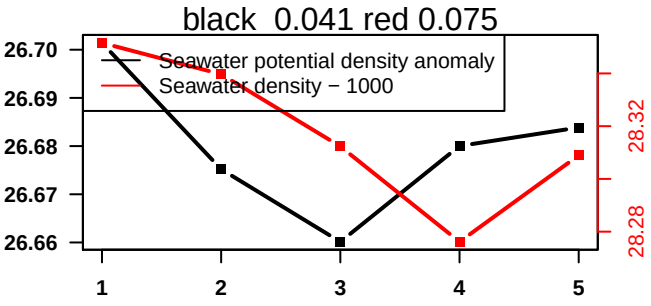

lovbio010b_108_02_06.txt
58
57
56
55
54
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

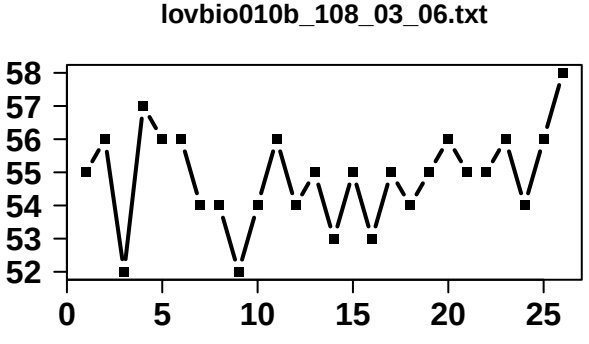

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

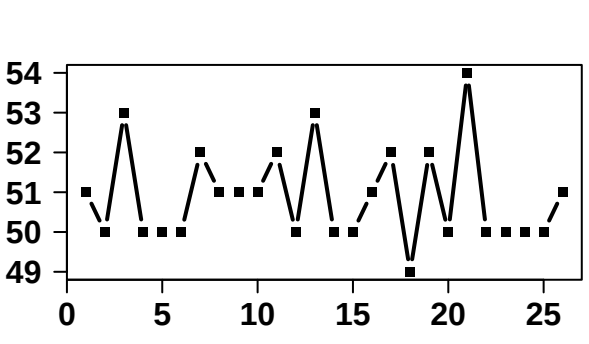

nb days: 0 freq: 0 min
168
166
164
162
160
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

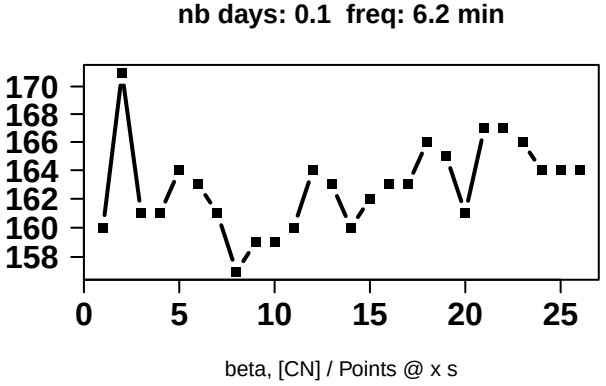

nb days: 0 freq: 0.1 min
19.61546
19.61545
19.61544
19.61543
19.61542
19.61541
19.61540
19.61539
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

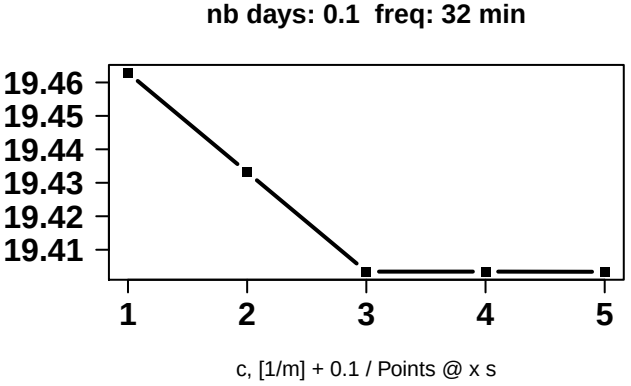

2015−09−09 04:31:15 2015−09−09 07:11:17
380
375
370
0
10
20
30
40
Pressure in

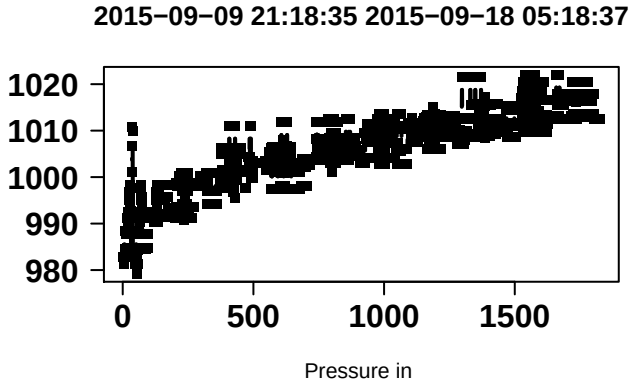

black 0.041 red 0.075
Seawater potential density anomaly
Seawater density − 1000
26.70
26.69
26.68
26.67
26.66
28.32
28.28
1
2
3
4
5

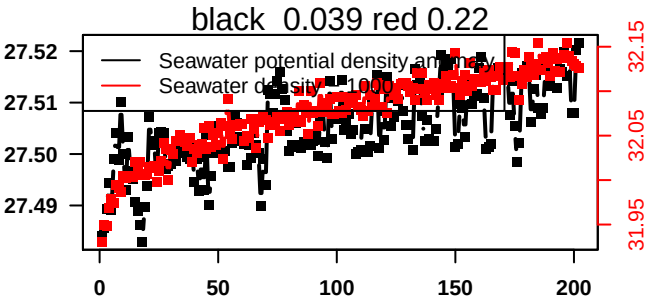

lovbio010b_108_03_06.txt
58
57
56
55
54
53
52
0
5
10
15
20
25
CDOM, [CN] / Points @ x s

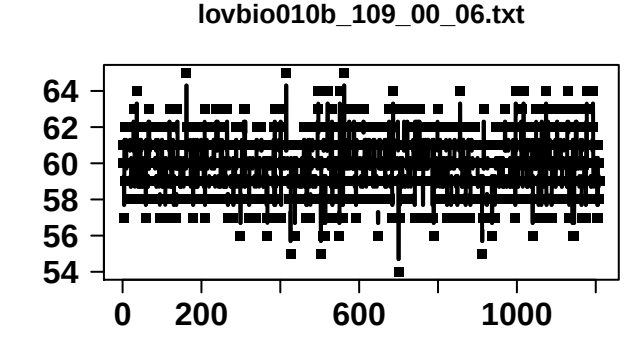

54
53
52
51
50
49
0
5
10
15
20
25
chl, [CN] / Points @ x s

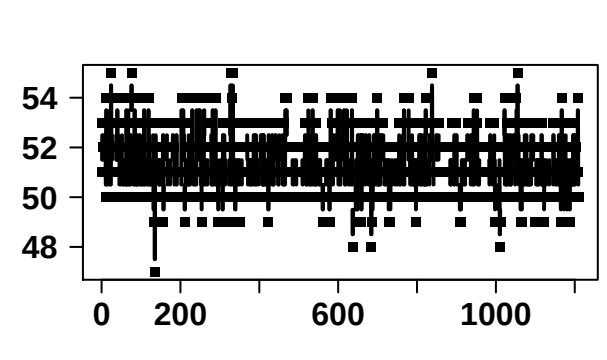

nb days: 0.1 freq: 6.2 min
170
168
166
164
162
160
158
0
5
10
15
20
25
beta, [CN] / Points @ x s

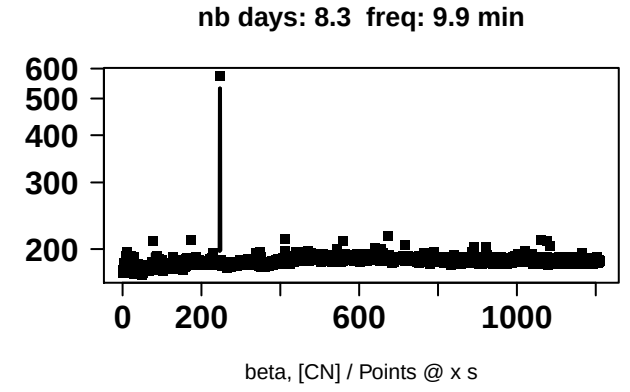

nb days: 0.1 freq: 32 min
19.46
19.45
19.44
19.43
19.42
19.41
1
2
3
4
5
c, [1/m] + 0.1 / Points @ x s

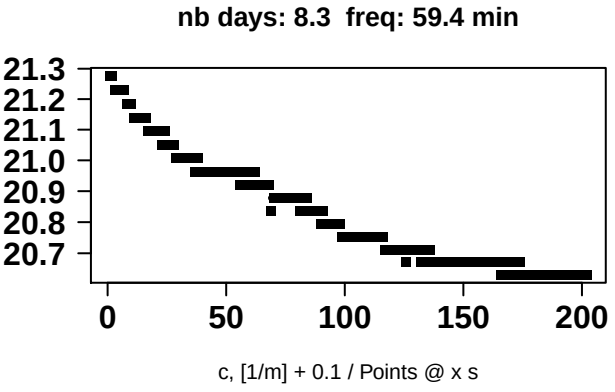

2015−09−09 21:18:35 2015−09−18 05:18:37
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

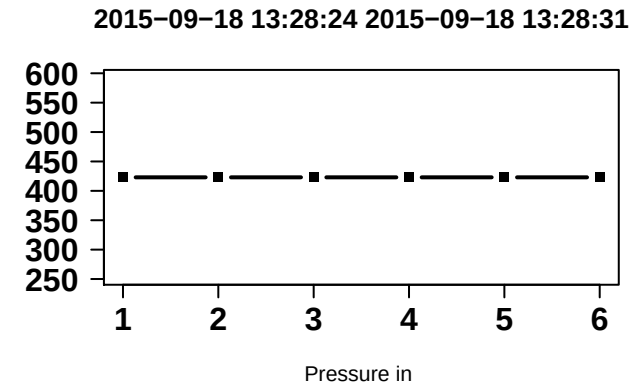

black 0.039 red 0.22
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
32.15
32.05
31.95
0
50
100
150
200

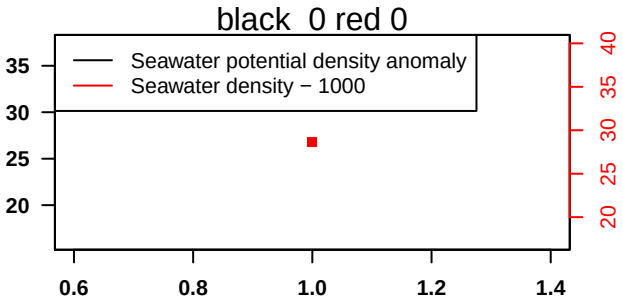

lovbio010b_109_00_06.txt
64
62
60
58
56
54
0
200
600
1000
CDOM, [CN] / Points @ x s

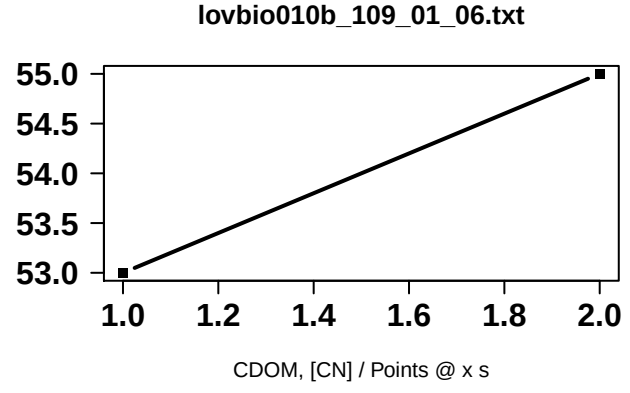

54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

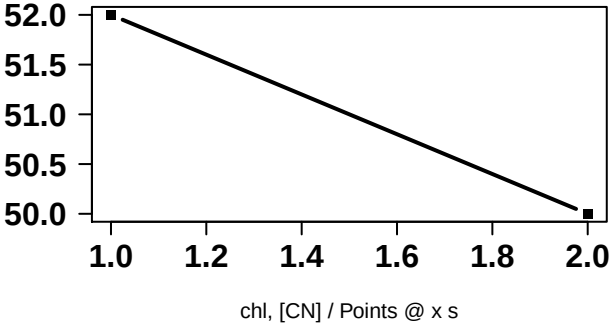

nb days: 8.3 freq: 9.9 min
600
500
400
300
200
0
200
600
1000
beta, [CN] / Points @ x s

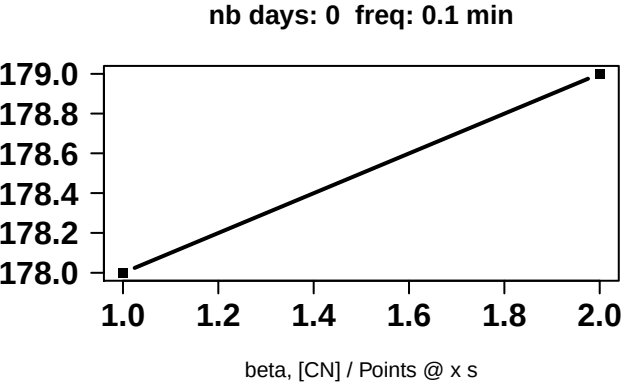

nb days: 8.3 freq: 59.4 min
21.3
21.2
21.1
21.0
20.9
20.8
20.7
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

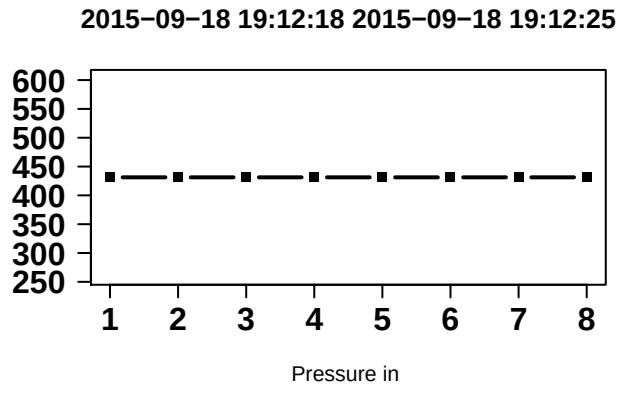

2015−09−18 13:28:24 2015−09−18 13:28:31
600
550
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

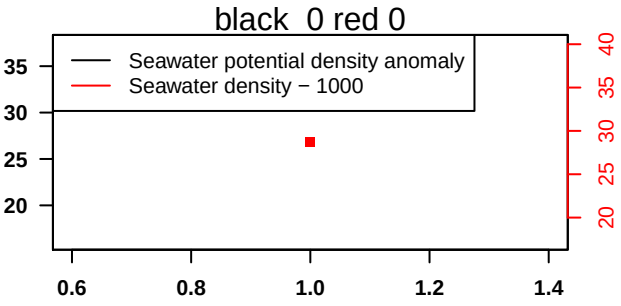

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

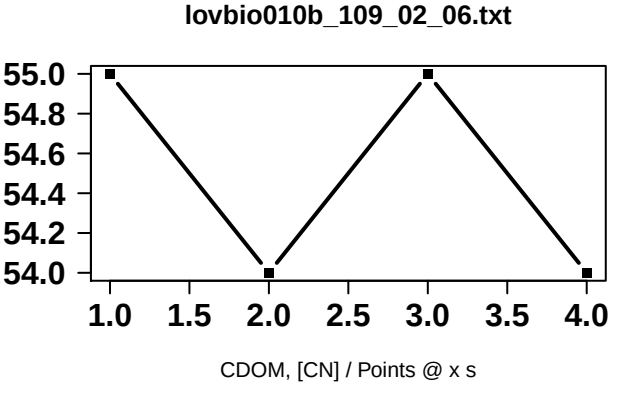

lovbio010b_109_01_06.txt
55.0
54.5
54.0
53.5
53.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

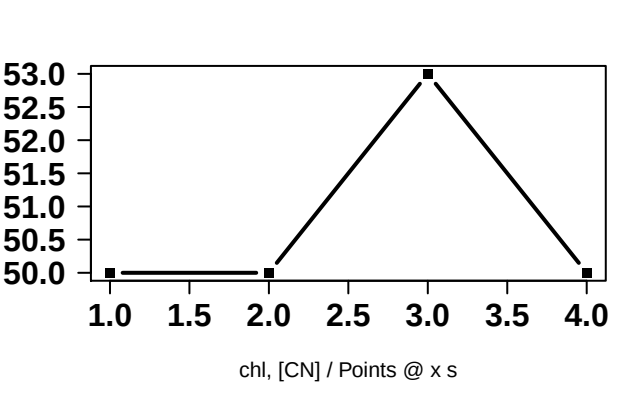

52.0
51.5
51.0
50.5
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

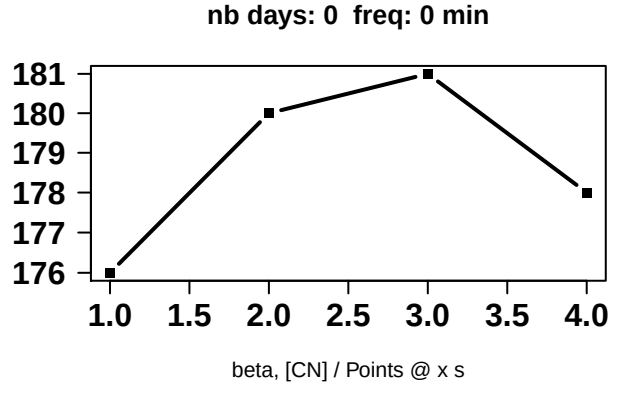

nb days: 0 freq: 0.1 min
179.0
178.8
178.6
178.4
178.2
178.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

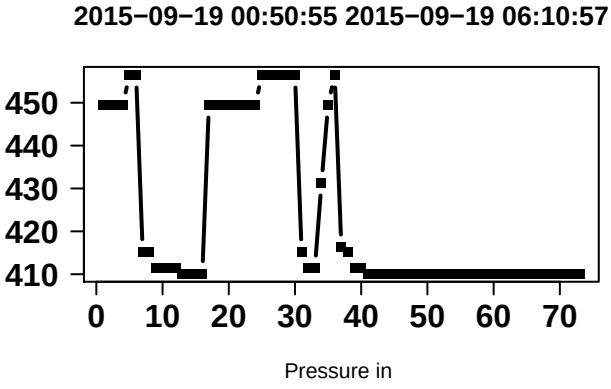

2015−09−18 19:12:18 2015−09−18 19:12:25
600
550
500
450
400
350
300
250
1
2
3
4
5
6
7
8
Pressure in

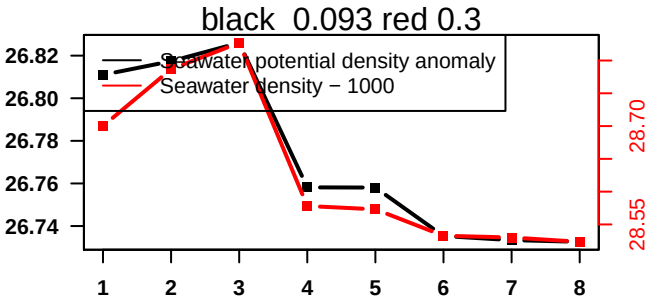

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

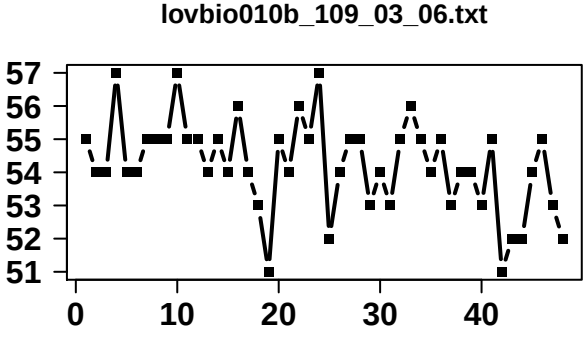

lovbio010b_109_02_06.txt
55.0
54.8
54.6
54.4
54.2
54.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

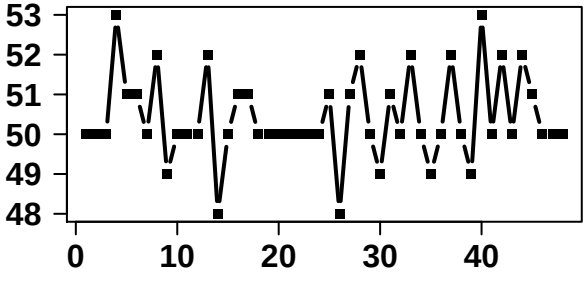

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

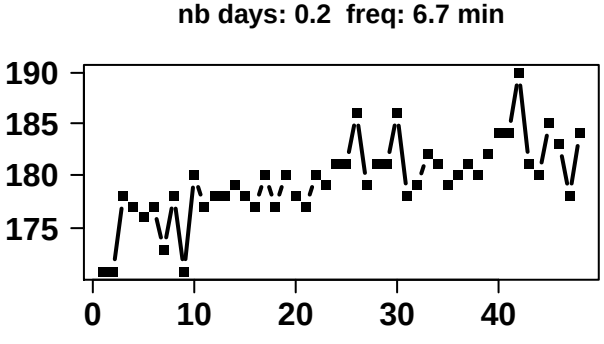

nb days: 0 freq: 0 min
181
180
179
178
177
176
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

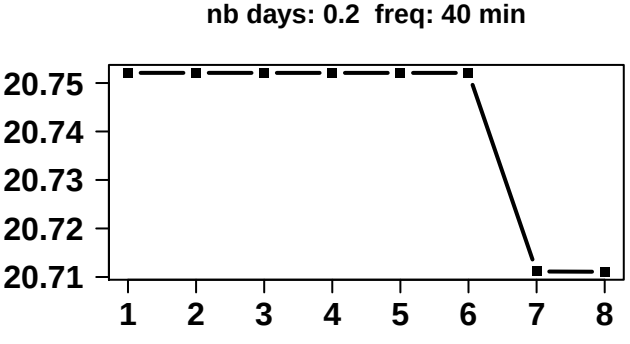

2015−09−19 00:50:55 2015−09−19 06:10:57
450
440
430
420
410
0
10
20
30
40
50
60
70
Pressure in

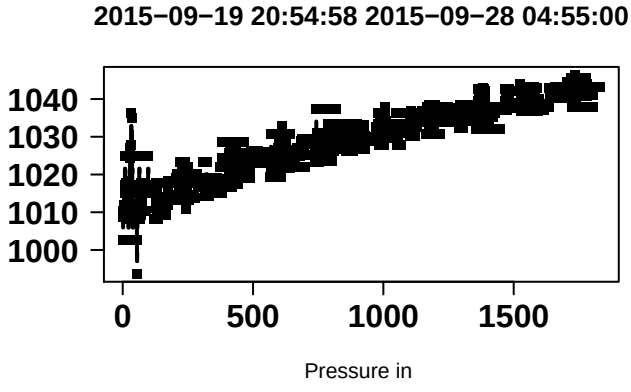

black 0.093 red 0.3
Seawater potential density anomaly
Seawater density − 1000
26.82
26.80
26.78
26.76
26.74
28.70
28.55
1
2
3
4
5
6
7
8

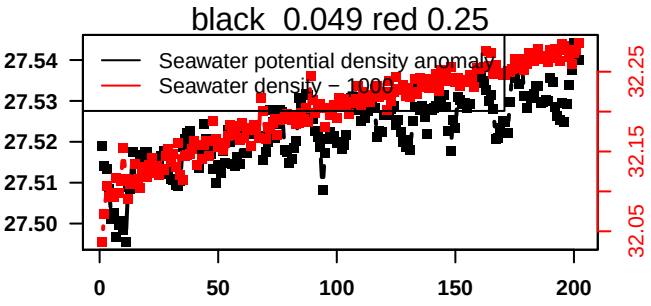

lovbio010b_109_03_06.txt
57
56
55
54
53
52
51
0
10
20
30
40
CDOM, [CN] / Points @ x s

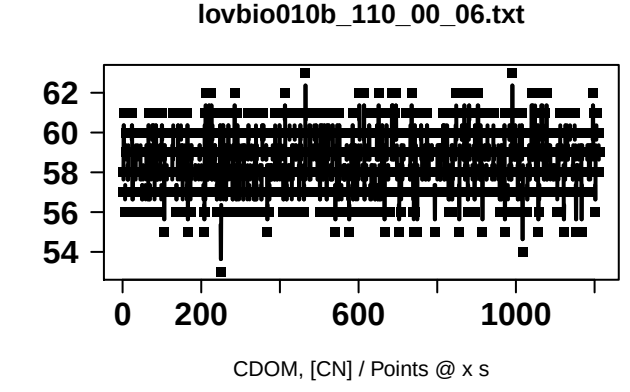

53
52
51
50
49
48
0
10
20
30
40
chl, [CN] / Points @ x s

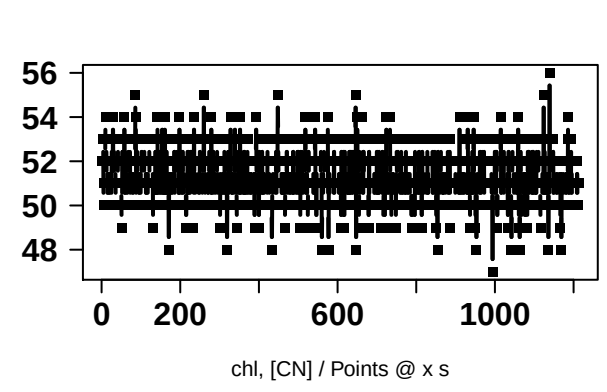

nb days: 0.2 freq: 6.7 min
190
185
180
175
0
10
20
30
40
beta, [CN] / Points @ x s

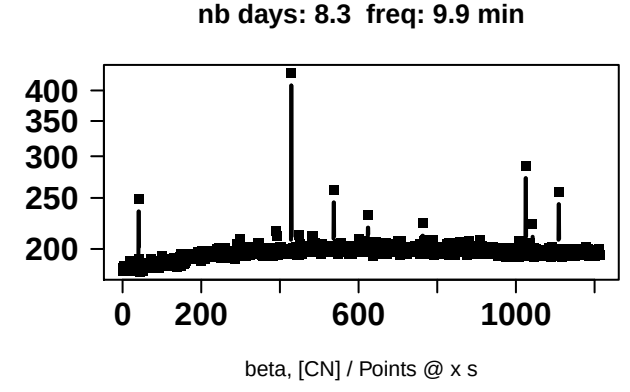

nb days: 0.2 freq: 40 min
20.75
20.74
20.73
20.72
20.71
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

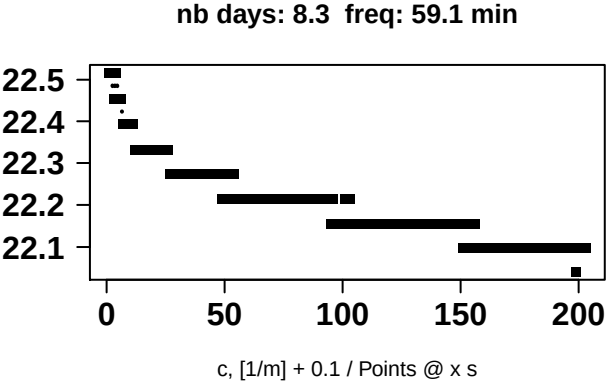

2015−09−19 20:54:58 2015−09−28 04:55:00
1040
1030
1020
1010
1000
0
500
1000
1500
Pressure in

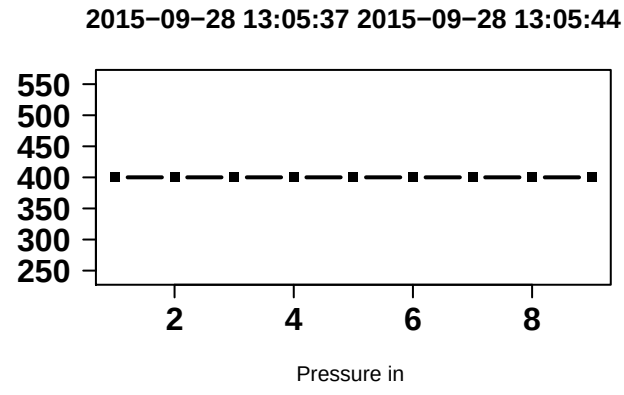

black 0.049 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.25
32.15
32.05
0
50
100
150
200

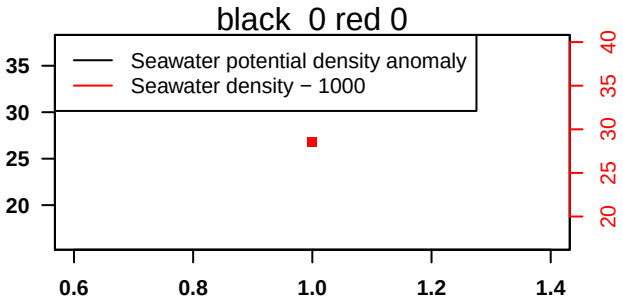

lovbio010b_110_00_06.txt
62
60
58
56
54
0
200
600
1000
CDOM, [CN] / Points @ x s

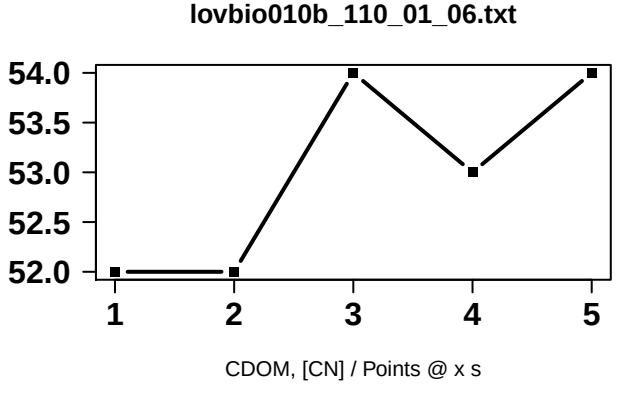

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

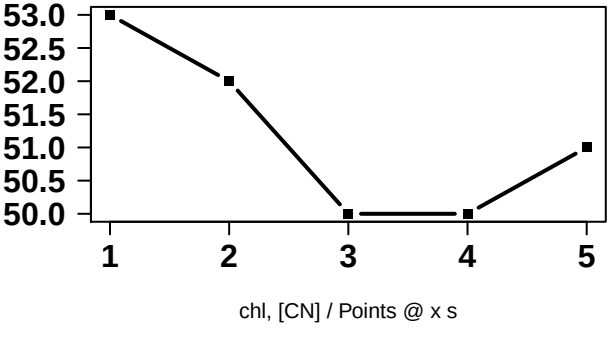

nb days: 8.3 freq: 9.9 min
400
350
300
250
200
0
200
600
1000
beta, [CN] / Points @ x s

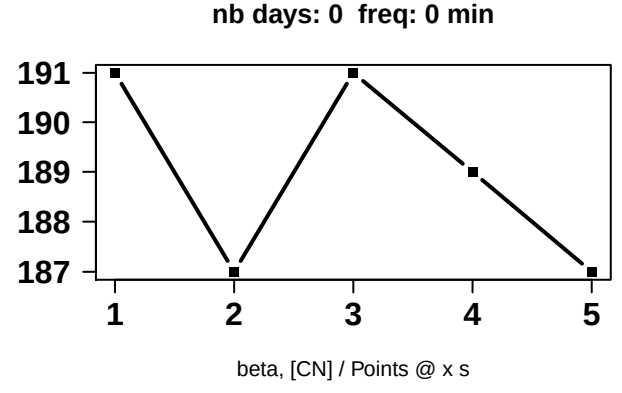

nb days: 8.3 freq: 59.1 min
22.5
22.4
22.3
22.2
22.1
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

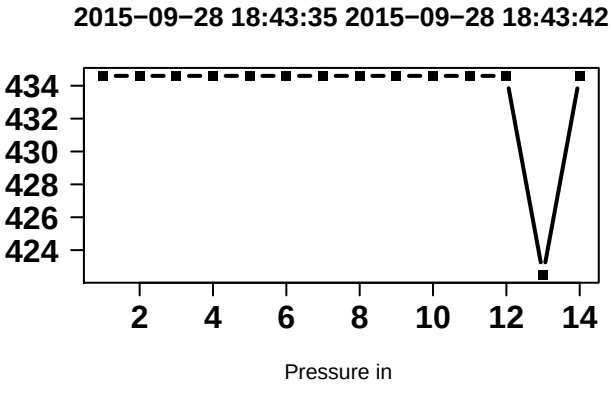

2015−09−28 13:05:37 2015−09−28 13:05:44
550
500
450
400
350
300
250
2
4
6
8
Pressure in

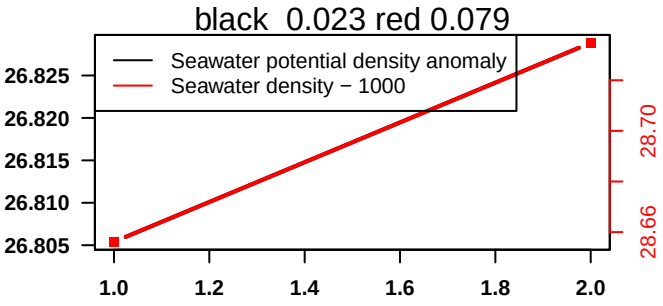

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

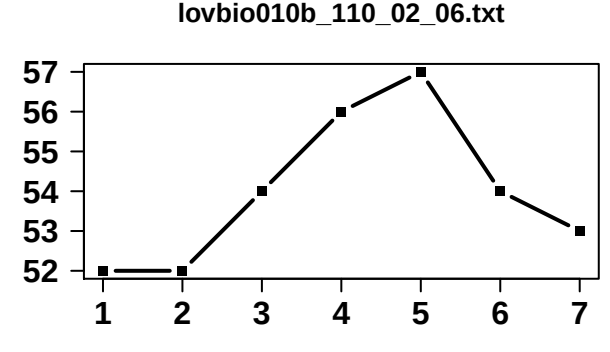

lovbio010b_110_01_06.txt
54.0
53.5
53.0
52.5
52.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

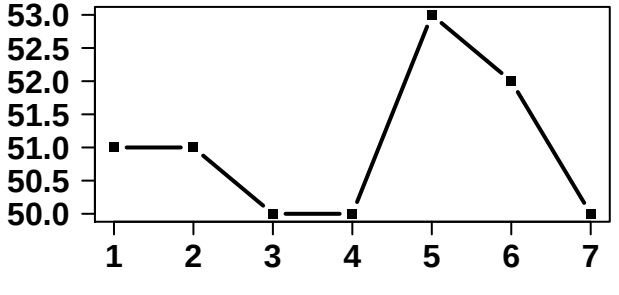

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
chl, [CN] / Points @ x s

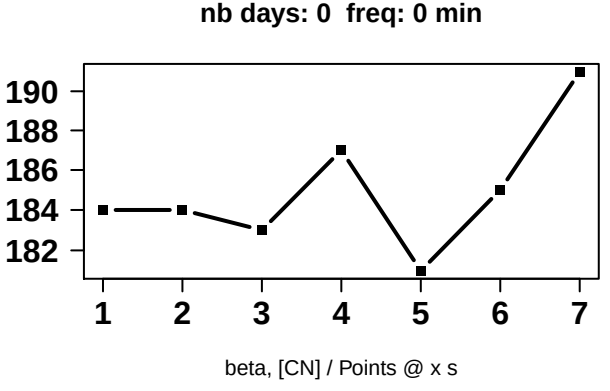

nb days: 0 freq: 0 min
191
190
189
188
187
1
2
3
4
5
beta, [CN] / Points @ x s

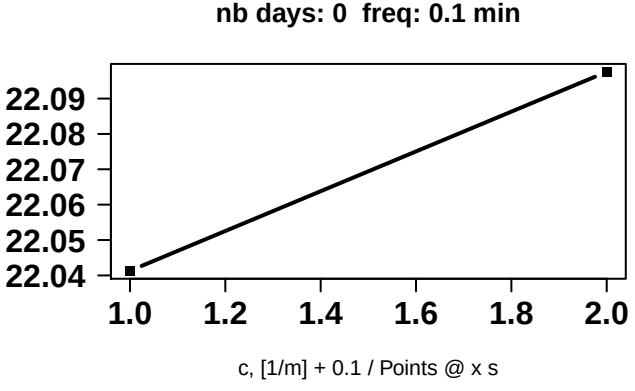

2015−09−28 18:43:35 2015−09−28 18:43:42
434
432
430
428
426
424
2
4
6
8
10
12
14
Pressure in

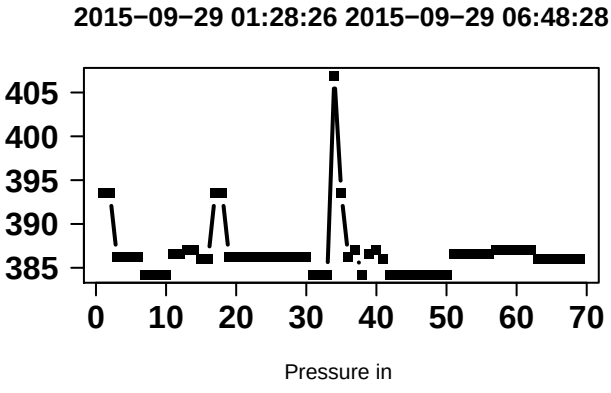

black 0.023 red 0.079
Seawater potential density anomaly
Seawater density − 1000
26.825
26.820
26.815
26.810
26.805
1.0
1.2
1.4
1.6
1.8
2.0
28.70
28.66

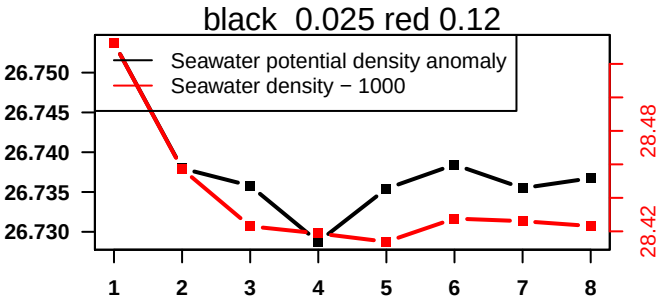

lovbio010b_110_02_06.txt
57
56
55
54
53
52
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

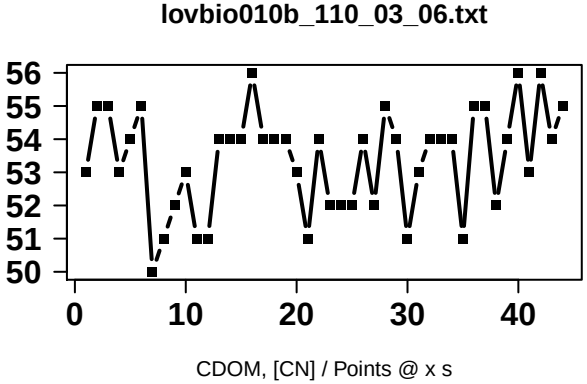

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

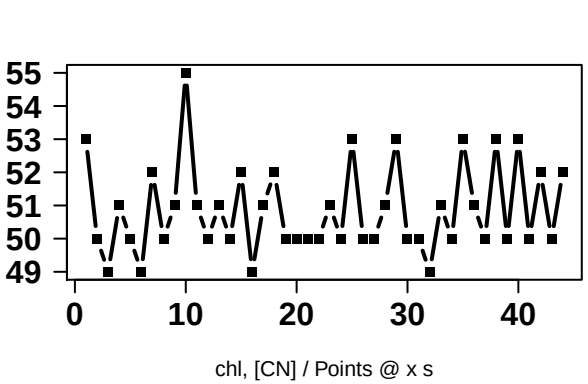

nb days: 0 freq: 0 min
190
188
186
184
182
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

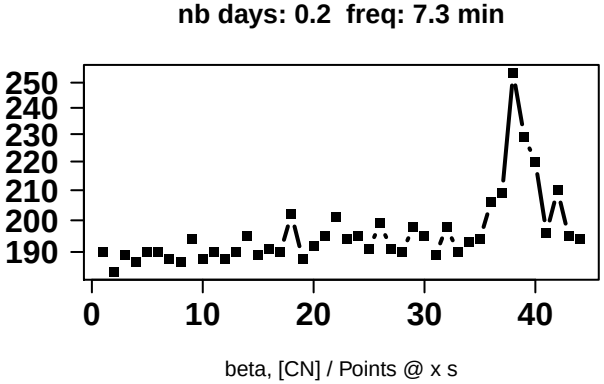

nb days: 0 freq: 0.1 min
22.09
22.08
22.07
22.06
22.05
22.04
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

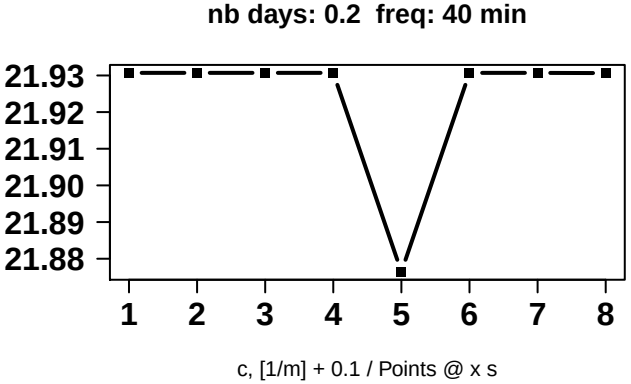

2015−09−29 01:28:26 2015−09−29 06:48:28
405
400
395
390
385
0
10
20
30
40
50
60
70
Pressure in

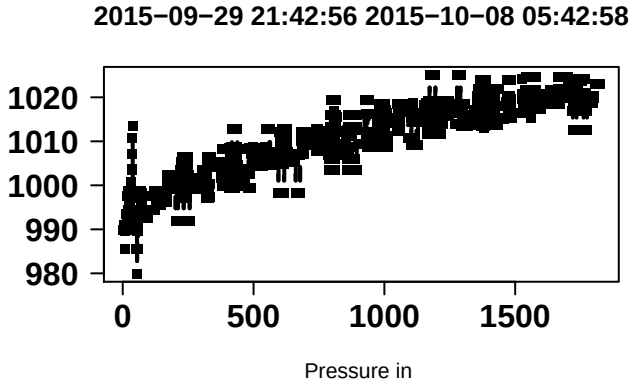

black 0.025 red 0.12
Seawater potential density anomaly
Seawater density − 1000
26.750
26.745
26.740
26.735
26.730
28.48
28.42
1
2
3
4
5
6
7
8

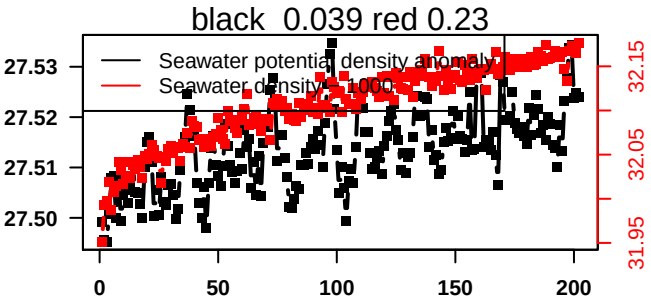

lovbio010b_110_03_06.txt
56
55
54
53
52
51
50
0
10
20
30
40
CDOM, [CN] / Points @ x s

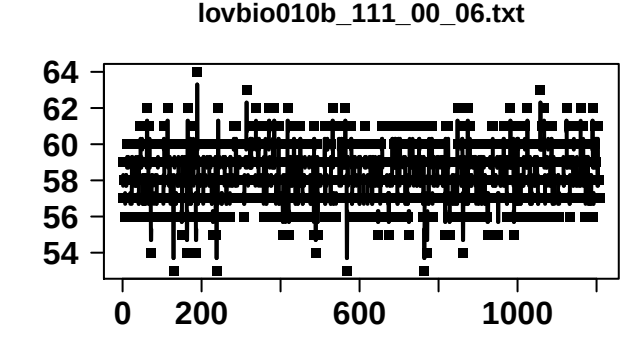

55
54
53
52
51
50
49
0
10
20
30
40
chl, [CN] / Points @ x s

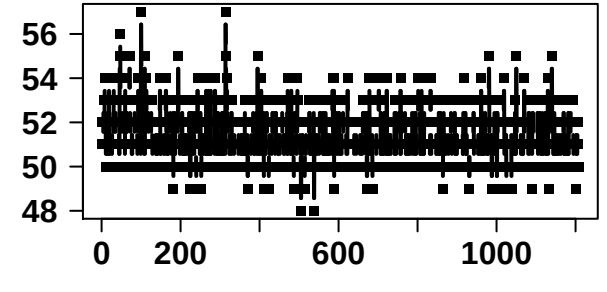

nb days: 0.2 freq: 7.3 min
250
240
230
220
210
200
190
0
10
20
30
40
beta, [CN] / Points @ x s

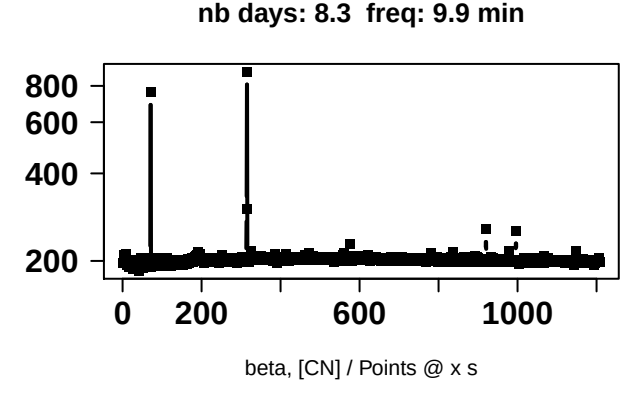

nb days: 0.2 freq: 40 min
21.93
21.92
21.91
21.90
21.89
21.88
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

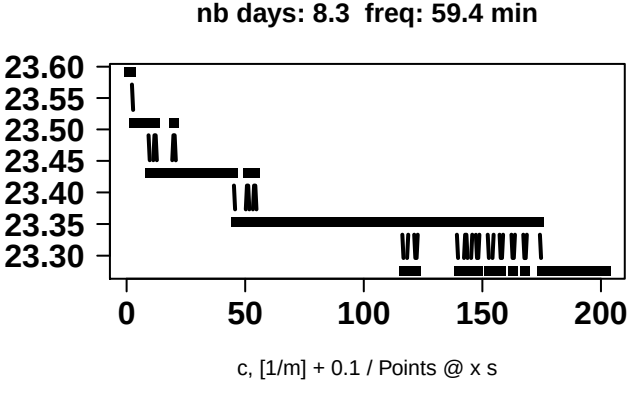

2015−09−29 21:42:56 2015−10−08 05:42:58
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

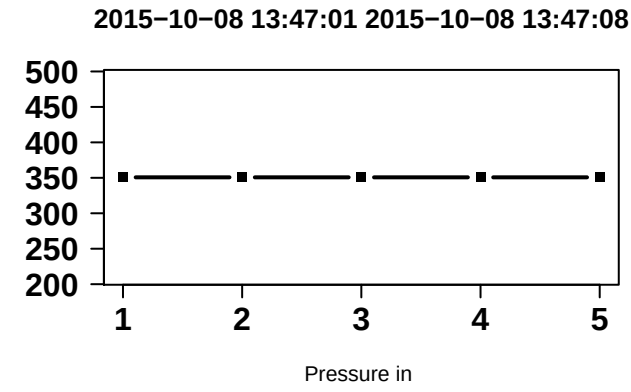

black 0.039 red 0.23
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
32.15
32.05
31.95
0
50
100
150
200

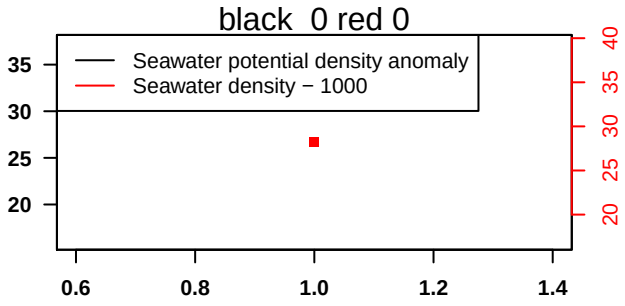

lovbio010b_111_00_06.txt
64
62
60
58
56
54
0
200
600
1000
CDOM, [CN] / Points @ x s

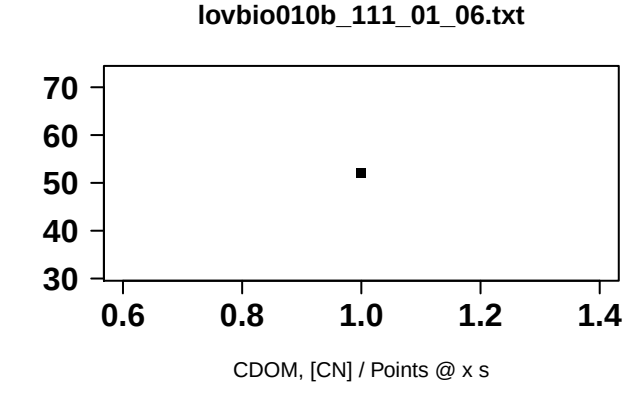

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

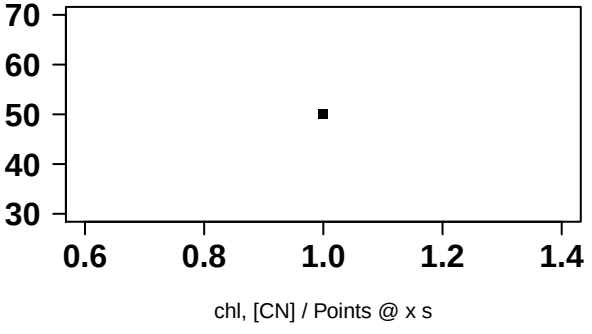

nb days: 8.3 freq: 9.9 min
800
600
400
200
0
200
600
1000
beta, [CN] / Points @ x s

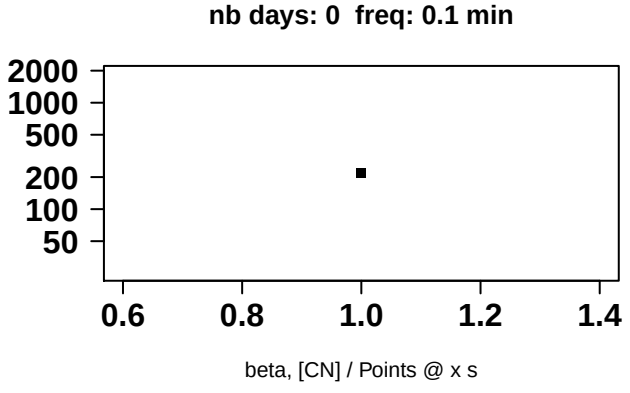

nb days: 8.3 freq: 59.4 min
23.60
23.55
23.50
23.45
23.40
23.35
23.30
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

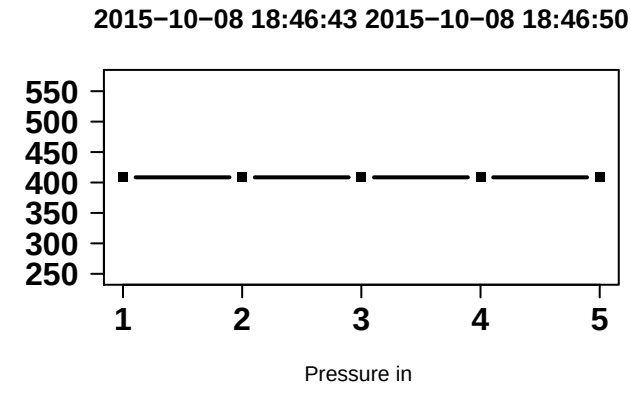

2015−10−08 13:47:01 2015−10−08 13:47:08
500
450
400
350
300
250
200
1
2
3
4
5
Pressure in

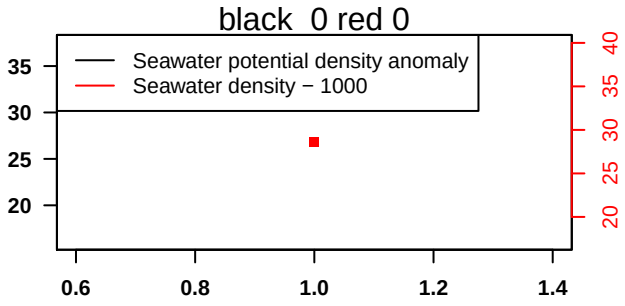

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

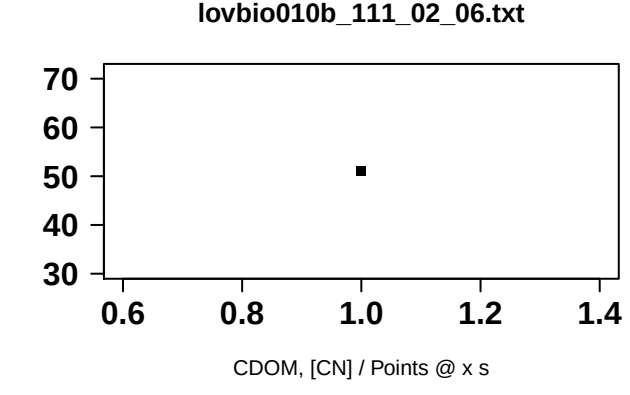

lovbio010b_111_01_06.txt
70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

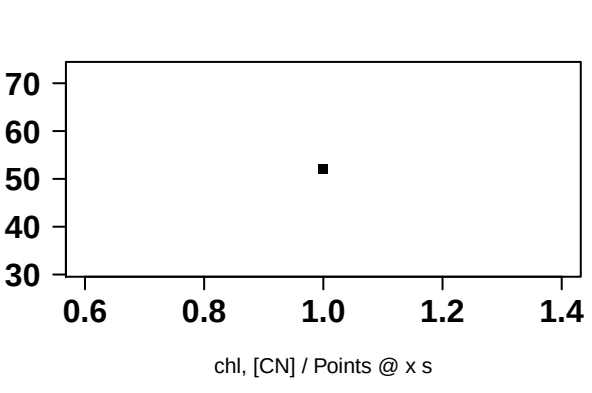

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

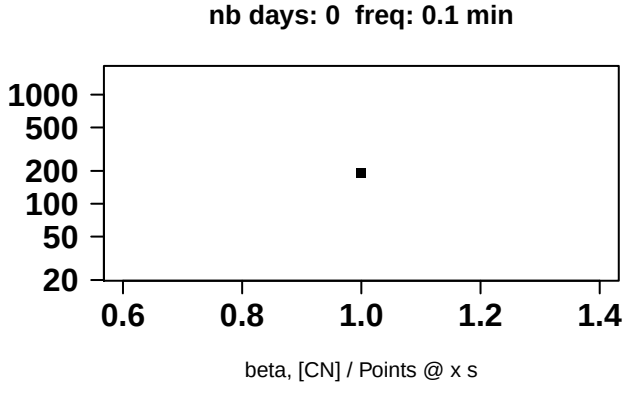

nb days: 0 freq: 0.1 min
2000
1000
500
200
100
50
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

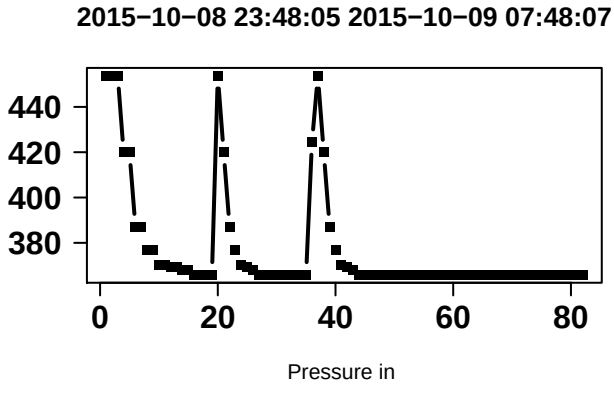

2015−10−08 18:46:43 2015−10−08 18:46:50
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

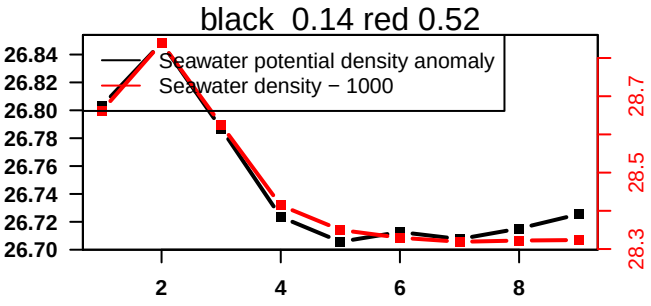

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

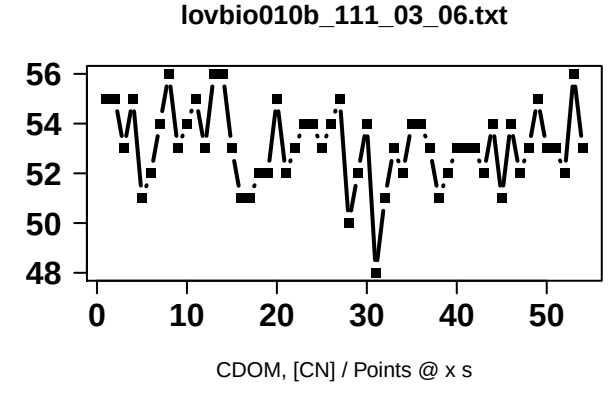

lovbio010b_111_02_06.txt
70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

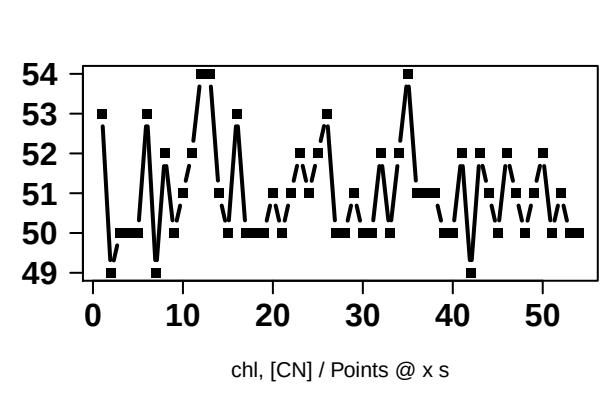

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

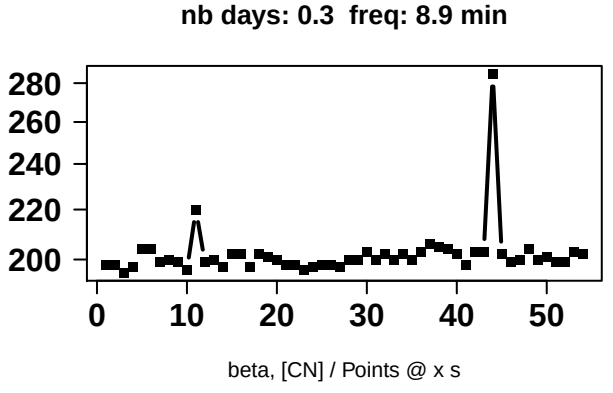

nb days: 0 freq: 0.1 min
1000
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

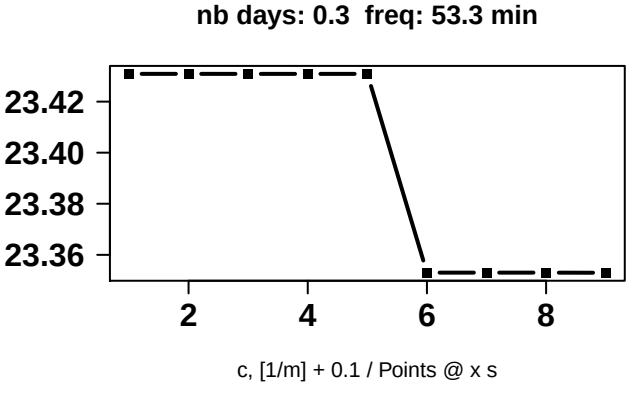

2015−10−08 23:48:05 2015−10−09 07:48:07
440
420
400
380
0
20
40
60
80
Pressure in

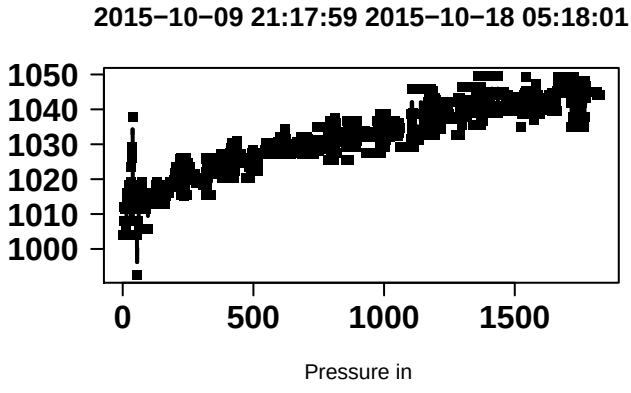

black 0.14 red 0.52
Seawater potential density anomaly
Seawater density − 1000
26.84
26.82
26.80
26.78
26.76
26.74
26.72
26.70
28.7
28.5
28.3
2
4
6
8

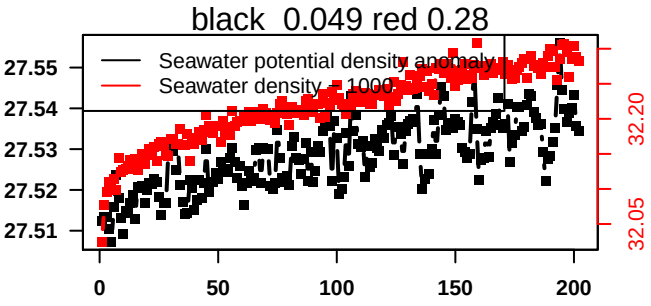

lovbio010b_111_03_06.txt
56
54
52
50
48
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

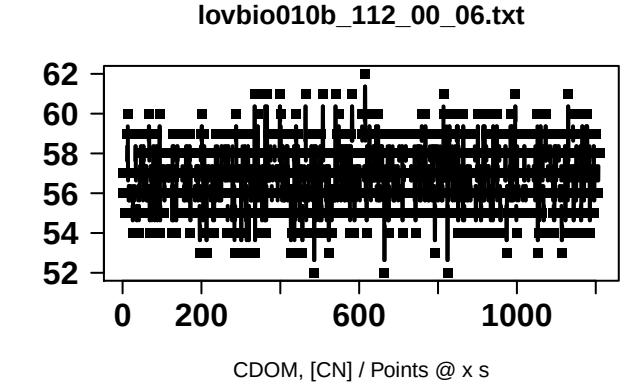

54
53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

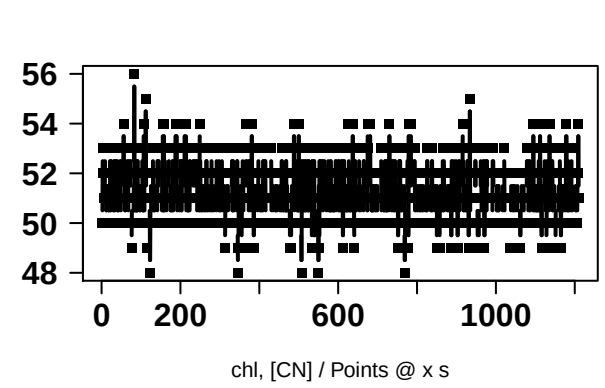

nb days: 0.3 freq: 8.9 min
280
260
240
220
200
0
10
20
30
40
50
beta, [CN] / Points @ x s

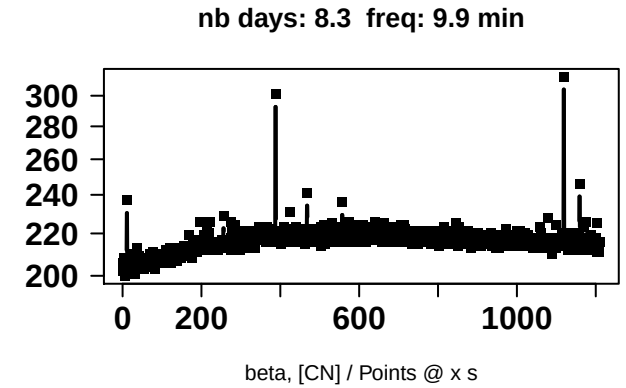

nb days: 0.3 freq: 53.3 min
23.42
23.40
23.38
23.36
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

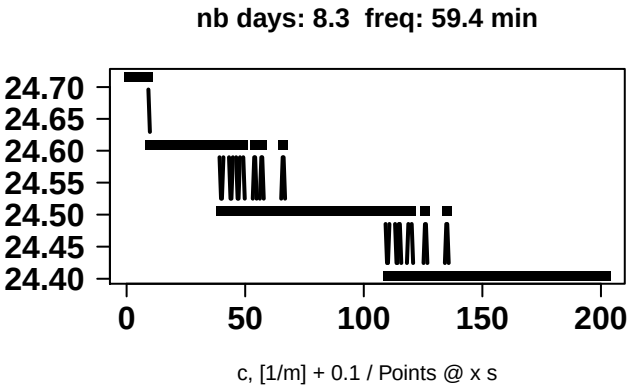

2015−10−09 21:17:59 2015−10−18 05:18:01
1050
1040
1030
1020
1010
1000
0
500
1000
1500
Pressure in

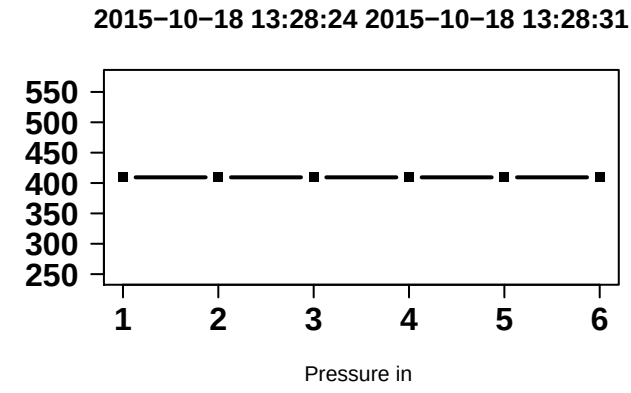

black 0.049 red 0.28
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
32.20
32.05
0
50
100
150
200

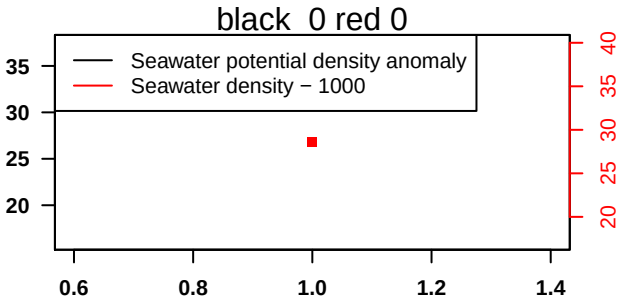

lovbio010b_112_00_06.txt
62
60
58
56
54
52
0
200
600
1000
CDOM, [CN] / Points @ x s

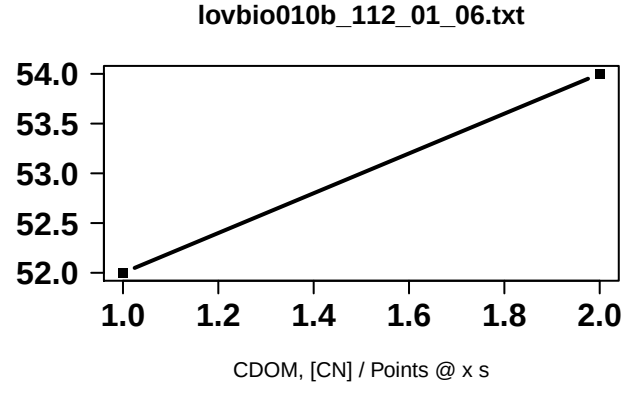

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

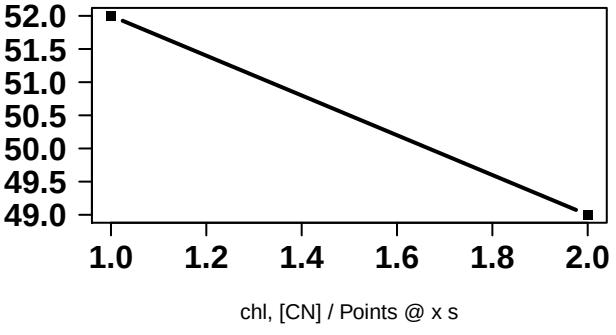

nb days: 8.3 freq: 9.9 min
300
280
260
240
220
200
0
200
600
1000
beta, [CN] / Points @ x s

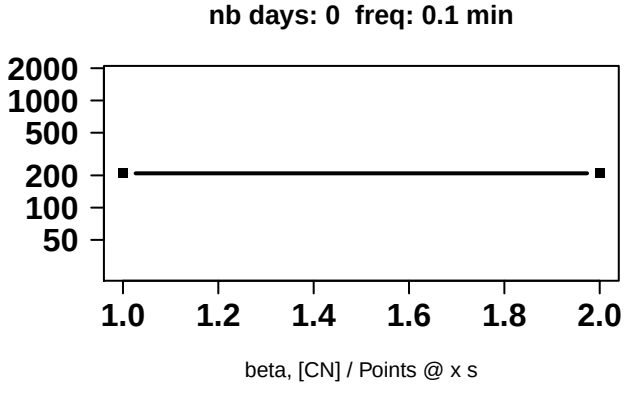

nb days: 8.3 freq: 59.4 min
24.70
24.65
24.60
24.55
24.50
24.45
24.40
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

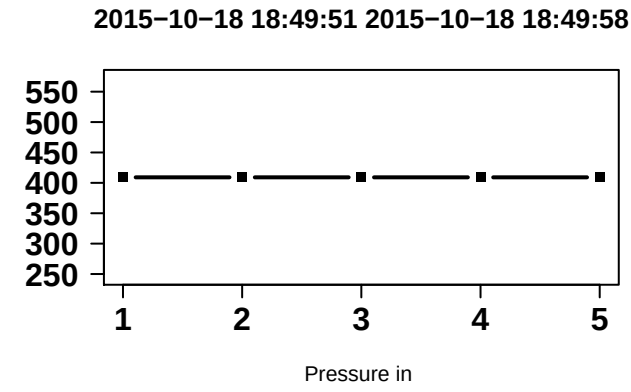

2015−10−18 13:28:24 2015−10−18 13:28:31
550
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

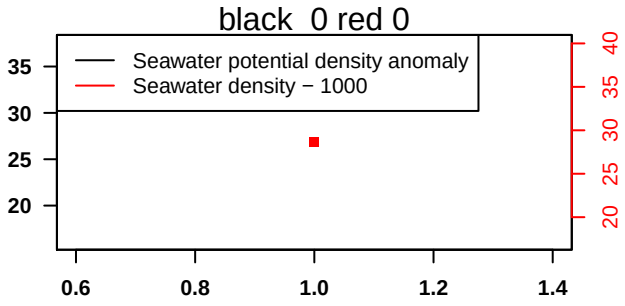

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

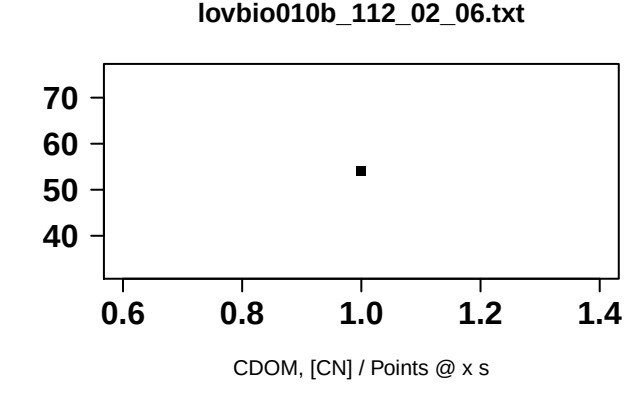

lovbio010b_112_01_06.txt
54.0
53.5
53.0
52.5
52.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

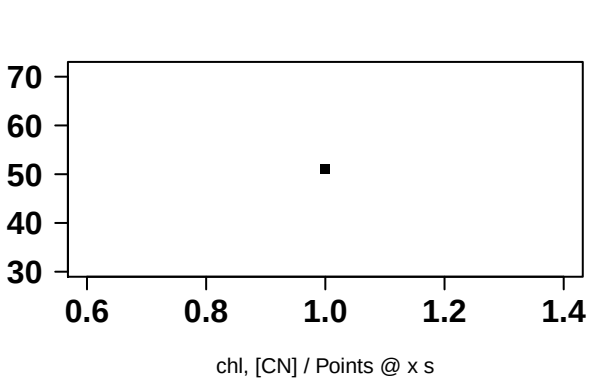

52.0
51.5
51.0
50.5
50.0
49.5
49.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

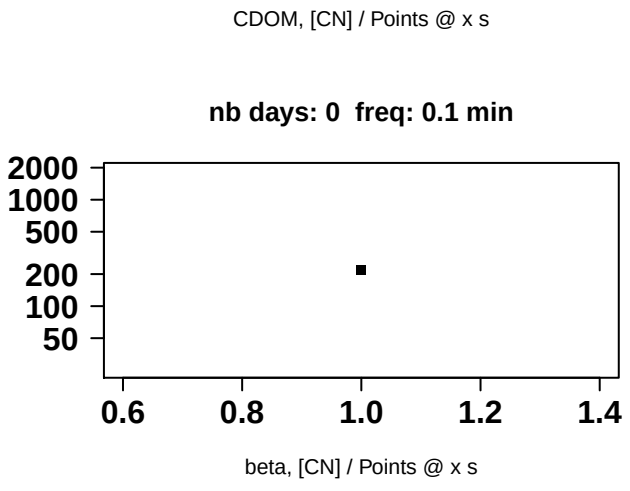

nb days: 0 freq: 0.1 min
2000
1000
500
200
100
50
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

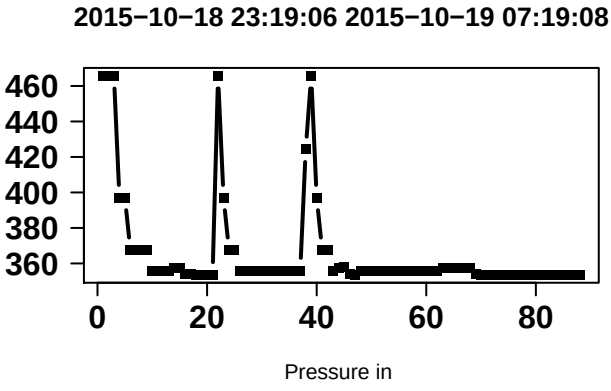

2015−10−18 18:49:51 2015−10−18 18:49:58
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

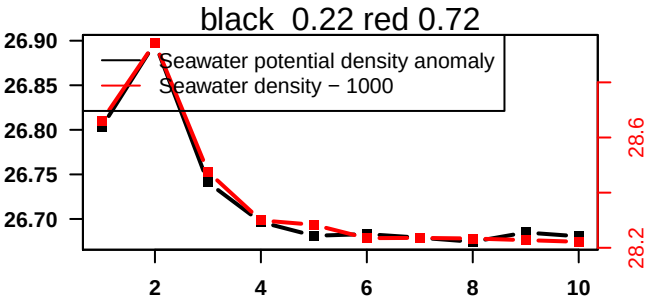

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

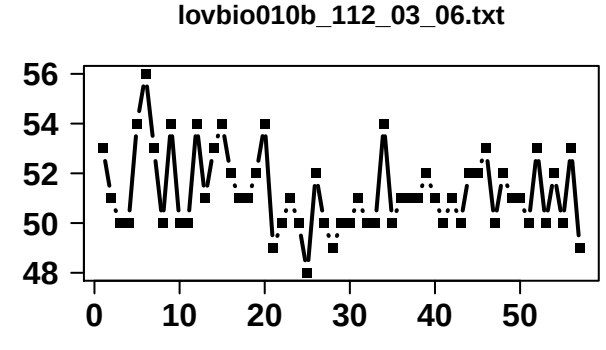

lovbio010b_112_02_06.txt
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

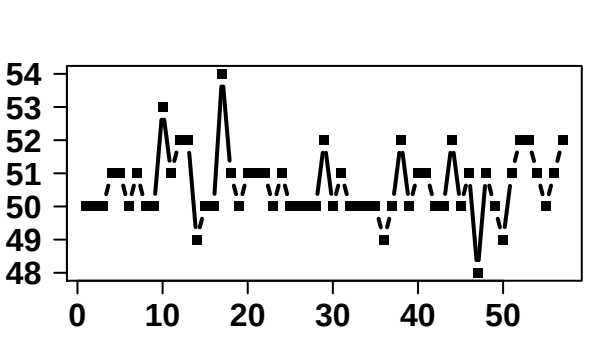

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

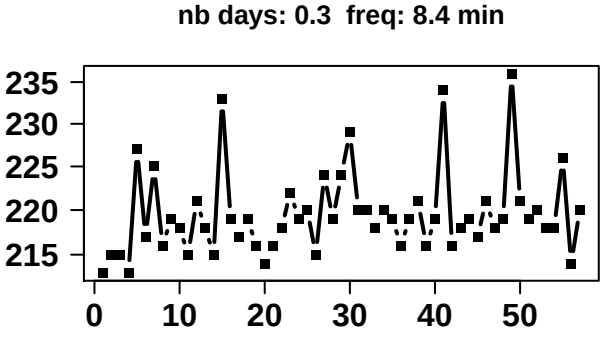

nb days: 0 freq: 0.1 min
2000
1000
500
200
100
50
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

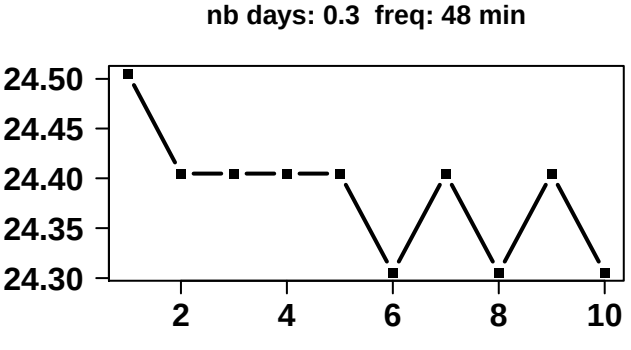

2015−10−18 23:19:06 2015−10−19 07:19:08
460
440
420
400
380
360
0
20
40
60
80
Pressure in

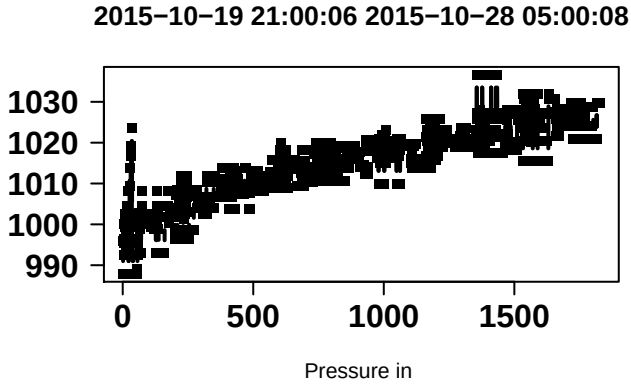

black 0.22 red 0.72
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
26.75
26.70
28.6
28.2
2
4
6
8
10

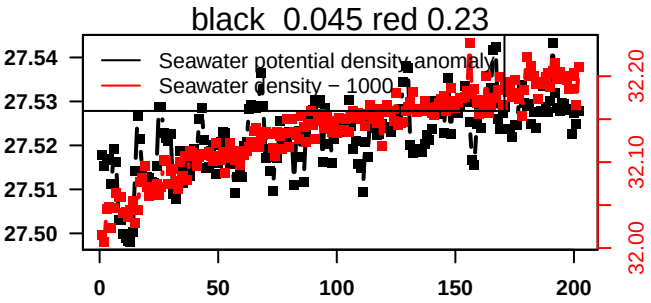

lovbio010b_112_03_06.txt
56
54
52
50
48
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

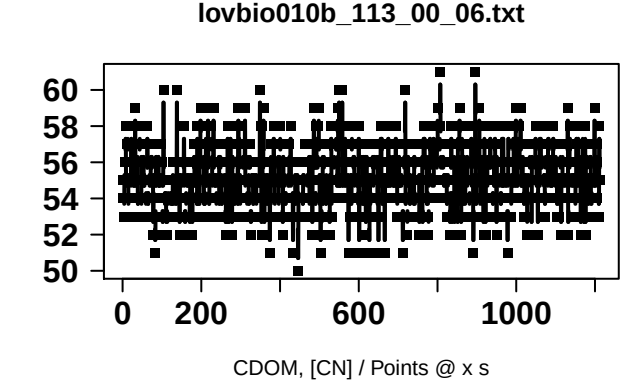

54
53
52
51
50
49
48
0
10
20
30
40
50
chl, [CN] / Points @ x s

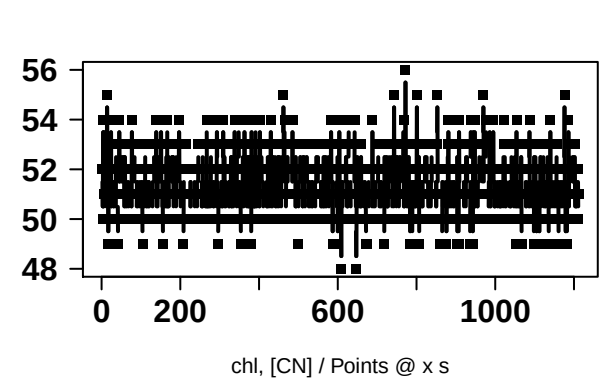

nb days: 0.3 freq: 8.4 min
235
230
225
220
215
0
10
20
30
40
50
beta, [CN] / Points @ x s

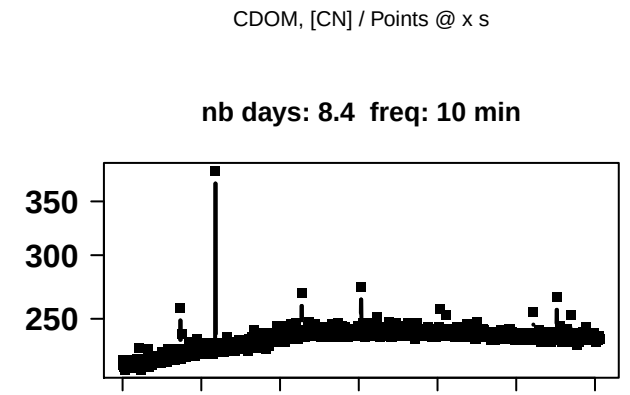

nb days: 0.3 freq: 48 min
24.50
24.45
24.40
24.35
24.30
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

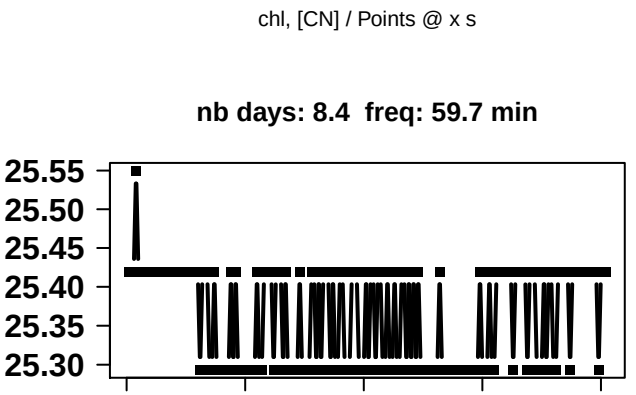

2015−10−19 21:00:06 2015−10−28 05:00:08
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

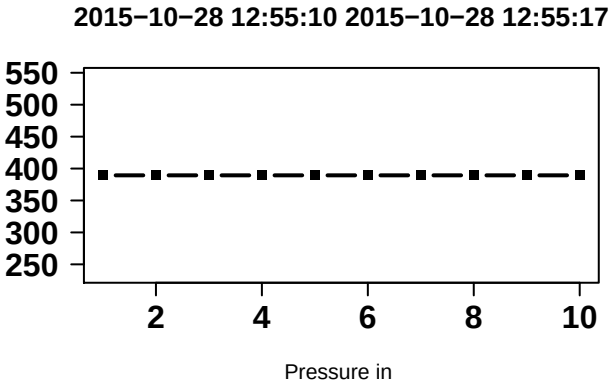

black 0.045 red 0.23
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.20
32.10
32.00
0
50
100
150
200

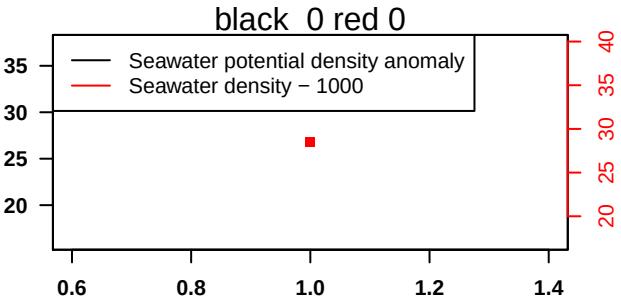

lovbio010b_113_00_06.txt
60
58
56
54
52
50
0
200
600
1000
CDOM, [CN] / Points @ x s

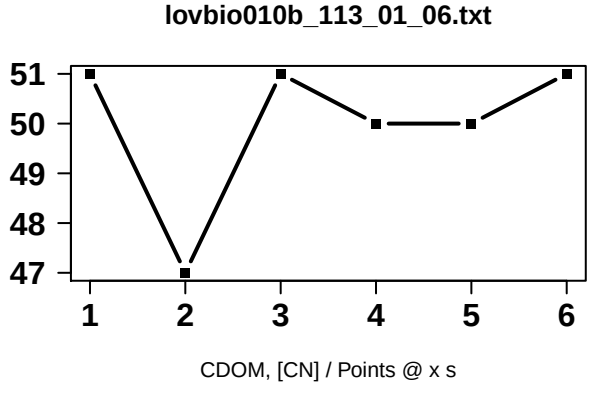

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

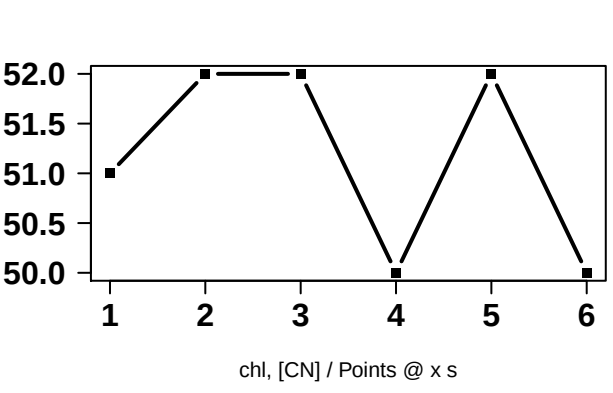

nb days: 8.4 freq: 10 min
350
300
250
0
200
600
1000
beta, [CN] / Points @ x s

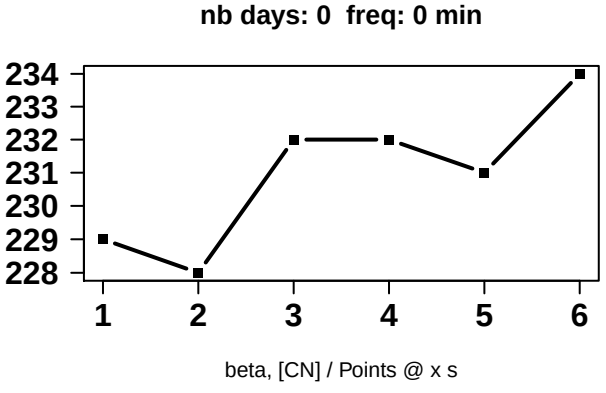

nb days: 8.4 freq: 59.7 min
25.55
25.50
25.45
25.40
25.35
25.30
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

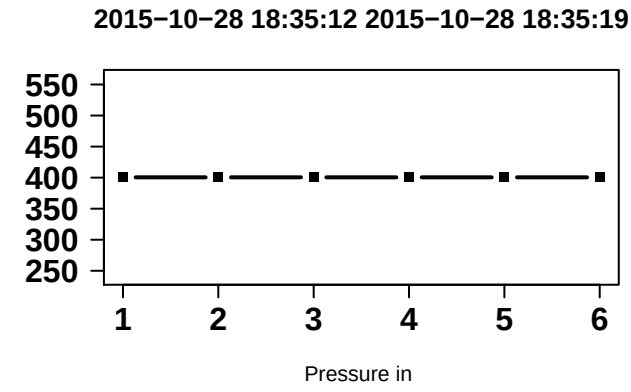

2015−10−28 12:55:10 2015−10−28 12:55:17
550
500
450
400
350
300
250
2
4
6
8
10
Pressure in

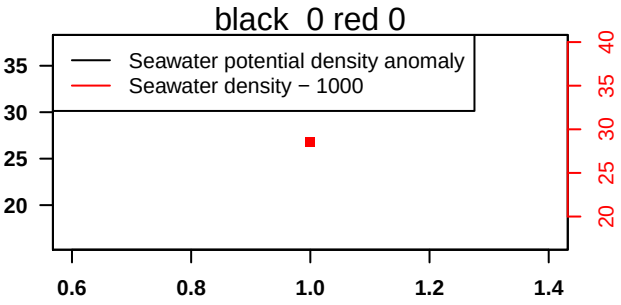

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

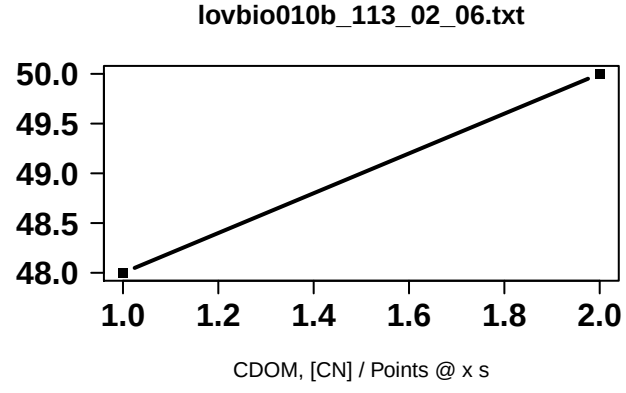

lovbio010b_113_01_06.txt
51
50
49
48
47
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

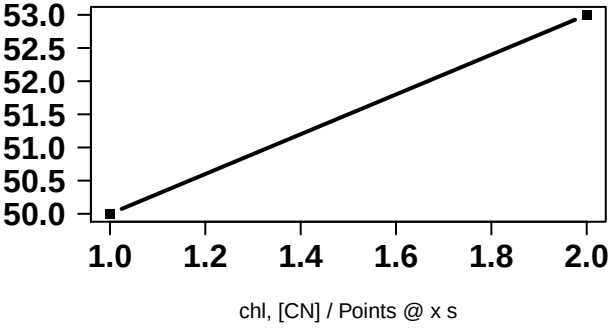

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

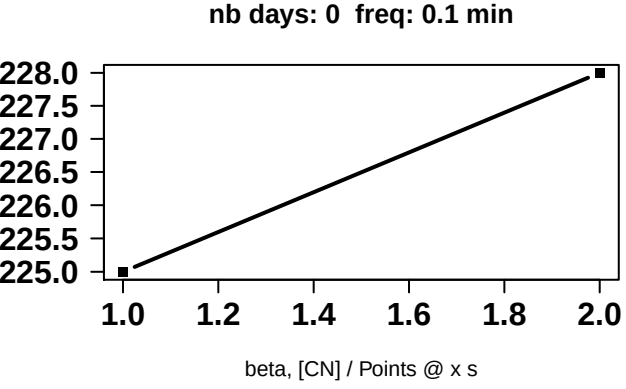

nb days: 0 freq: 0 min
234
233
232
231
230
229
228
1
2
3
4
5
6
beta, [CN] / Points @ x s

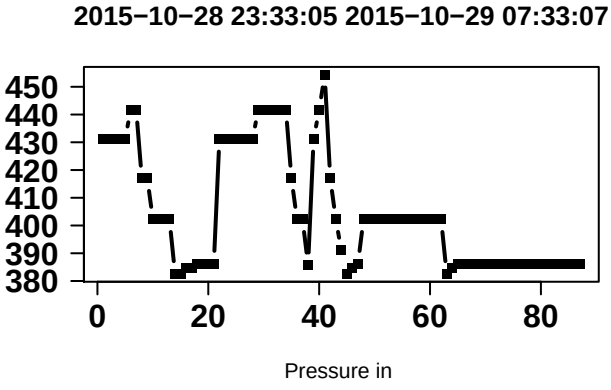

2015−10−28 18:35:12 2015−10−28 18:35:19
550
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

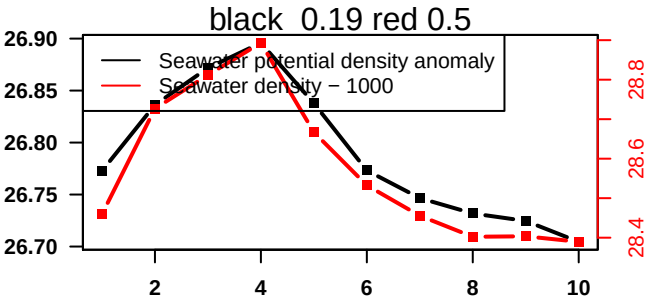

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

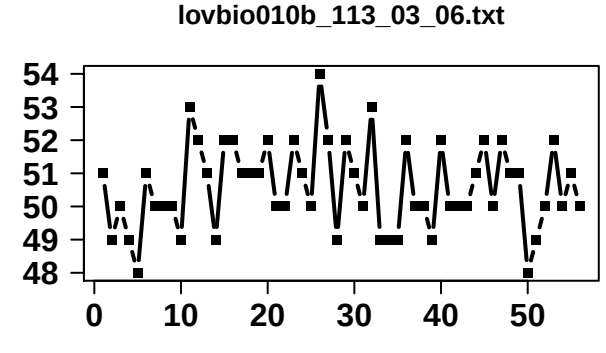

lovbio010b_113_02_06.txt
50.0
49.5
49.0
48.5
48.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

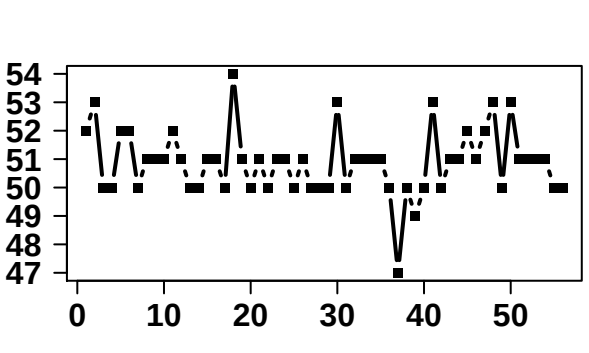

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

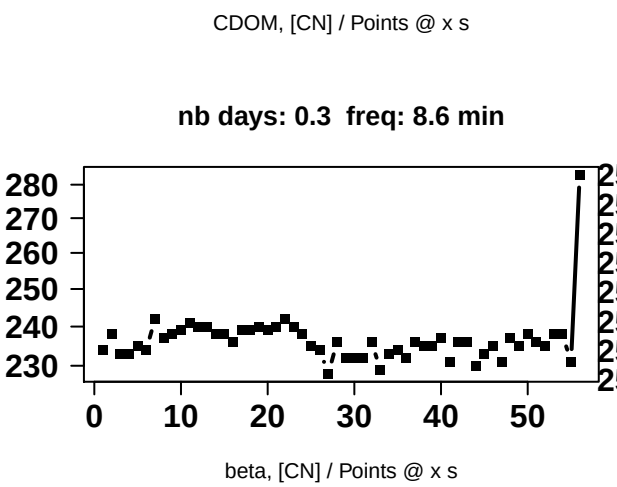

nb days: 0 freq: 0.1 min
228.0
227.5
227.0
226.5
226.0
225.5
225.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

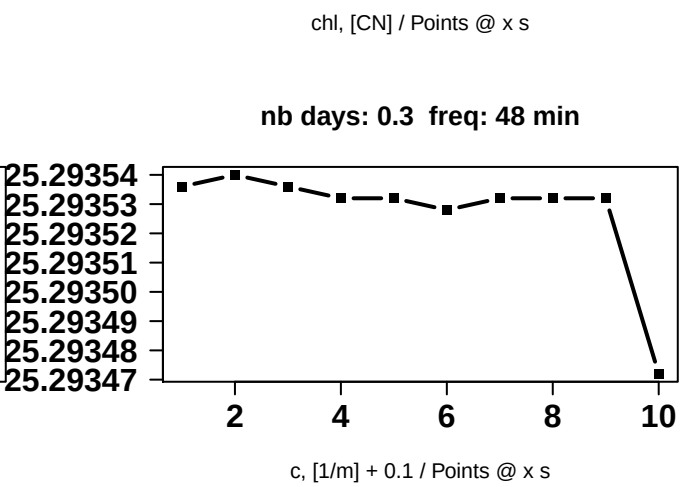

2015−10−28 23:33:05 2015−10−29 07:33:07
450
440
430
420
410
400
390
380
0
20
40
60
80
Pressure in

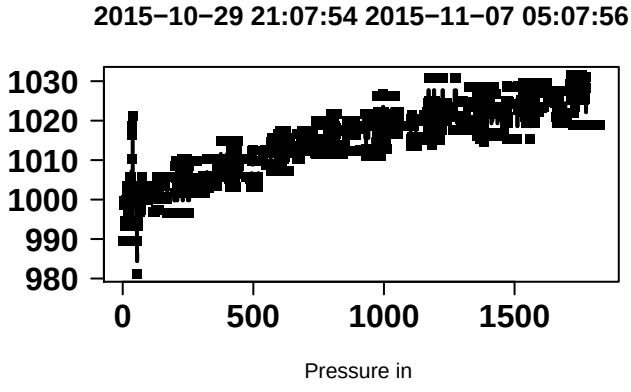

black 0.19 red 0.5
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
26.75
26.70
28.8
28.6
28.4
2
4
6
8
10

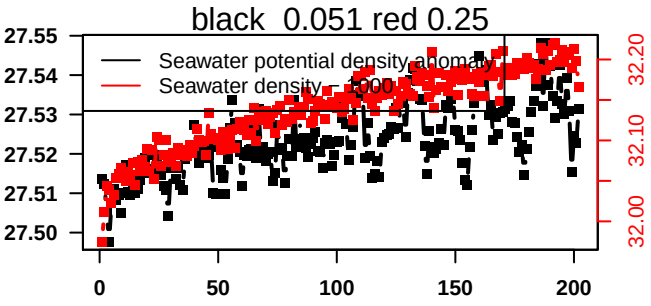

lovbio010b_113_03_06.txt
54
53
52
51
50
49
48
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

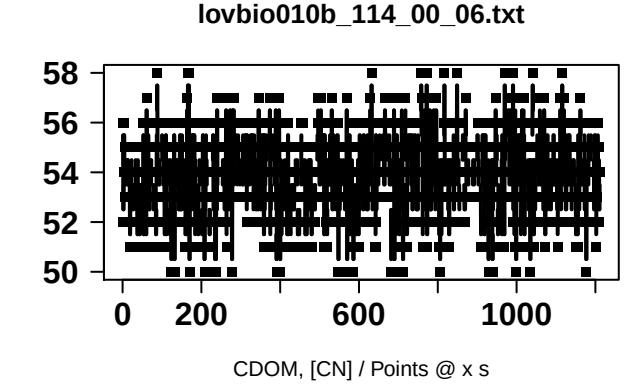

54
53
52
51
50
49
48
47
0
10
20
30
40
50
chl, [CN] / Points @ x s

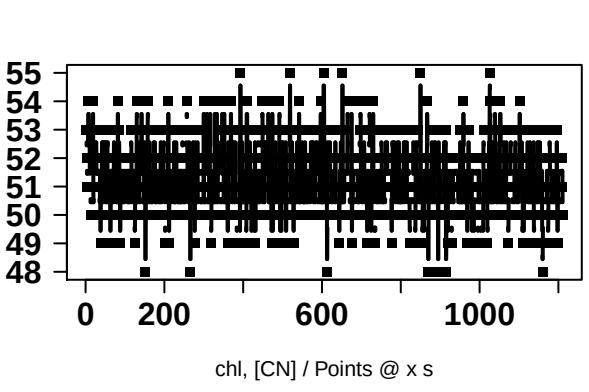

nb days: 0.3 freq: 8.6 min
280
270
260
250
240
230
0
10
20
30
40
50
beta, [CN] / Points @ x s

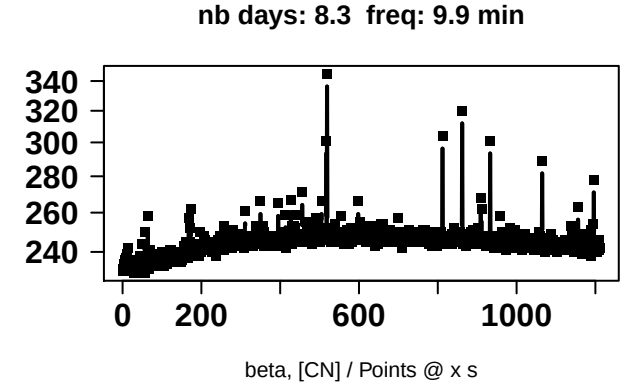

nb days: 0.3 freq: 48 min
25.29354
25.29353
25.29352
25.29351
25.29350
25.29349
25.29348
25.29347
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

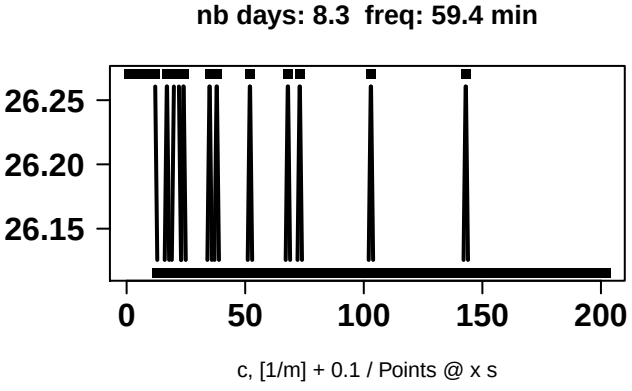

2015−10−29 21:07:54 2015−11−07 05:07:56
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

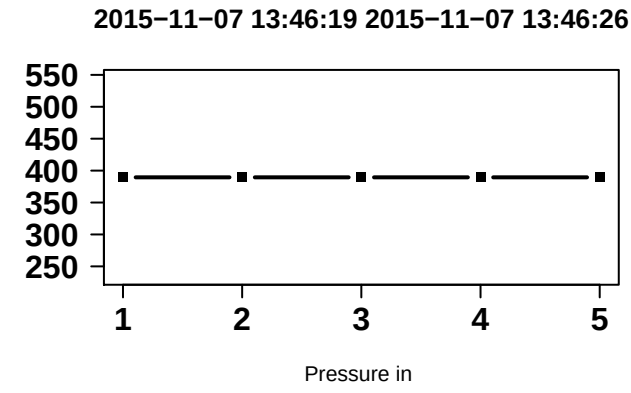

black 0.051 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
27.50
32.20
32.10
32.00
0
50
100
150
200

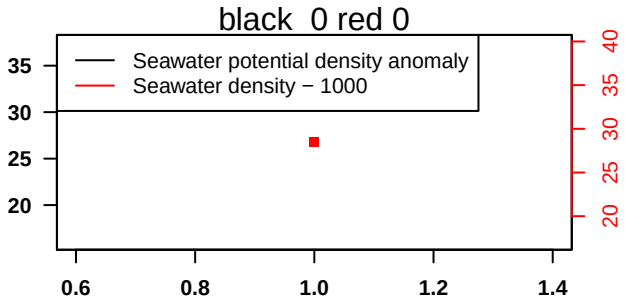

lovbio010b_114_00_06.txt
58
56
54
52
50
0
200
600
1000
CDOM, [CN] / Points @ x s

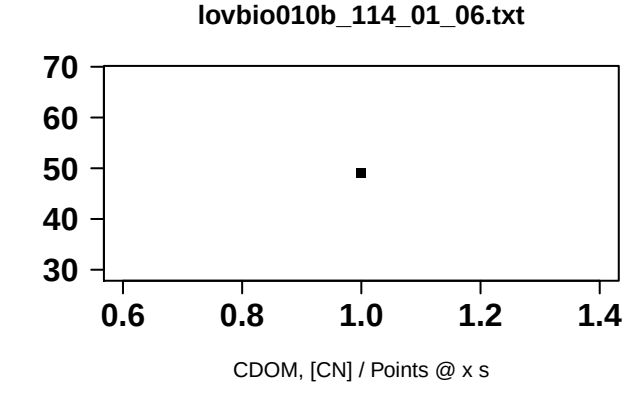

55
54
53
52
51
50
49
48
0
200
600
1000
chl, [CN] / Points @ x s

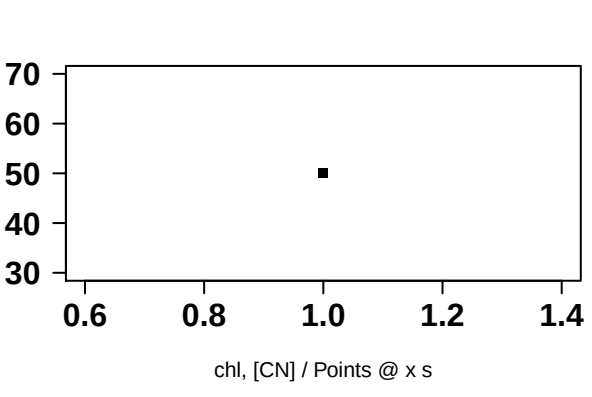

nb days: 8.3 freq: 9.9 min
340
320
300
280
260
240
0
200
600
1000
beta, [CN] / Points @ x s

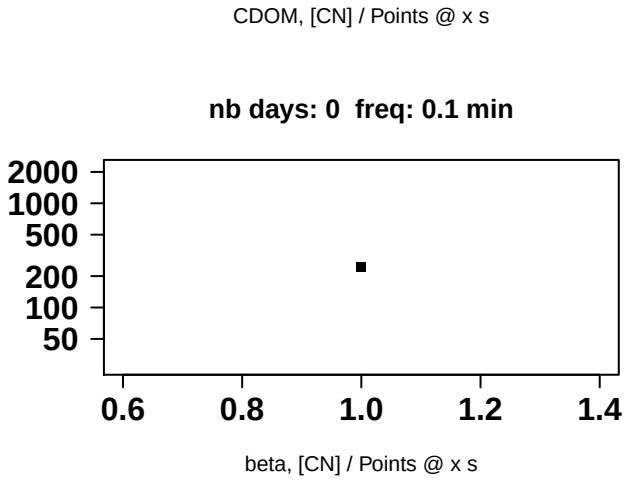

nb days: 8.3 freq: 59.4 min
26.25
26.20
26.15
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

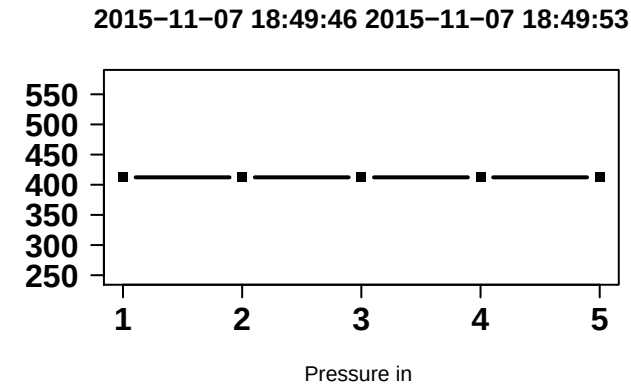

2015−11−07 13:46:19 2015−11−07 13:46:26
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

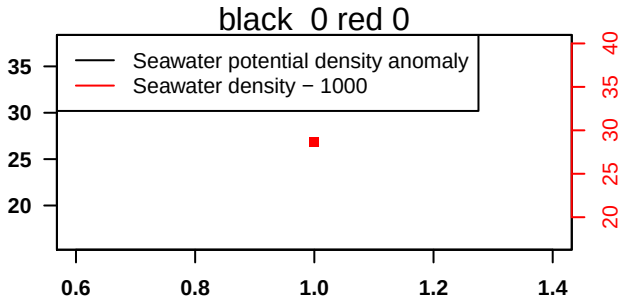

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

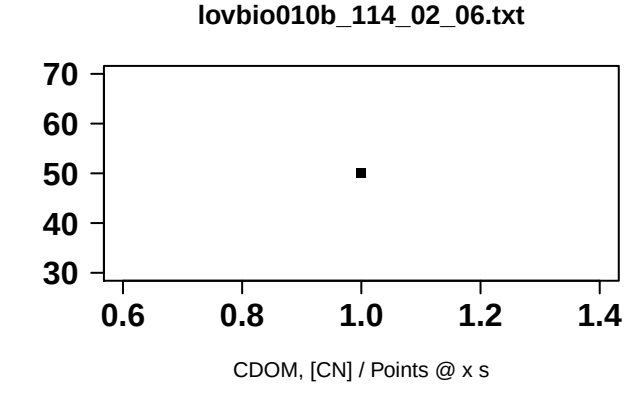

lovbio010b_114_01_06.txt
70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

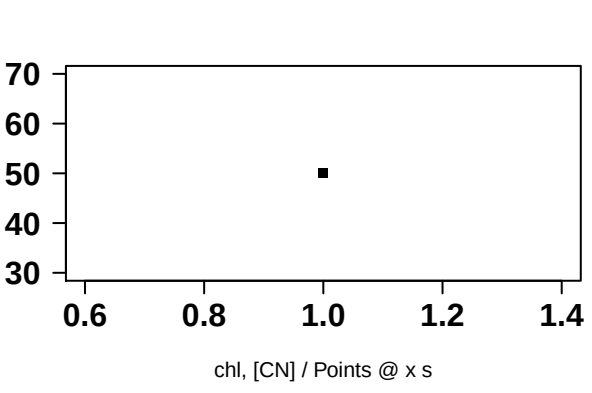

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

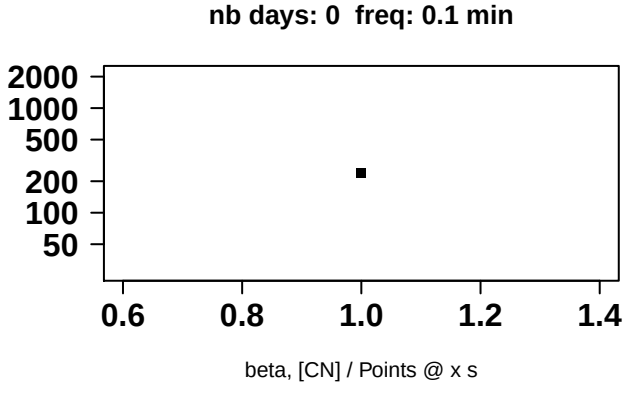

nb days: 0 freq: 0.1 min
2000
1000
500
200
100
50
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

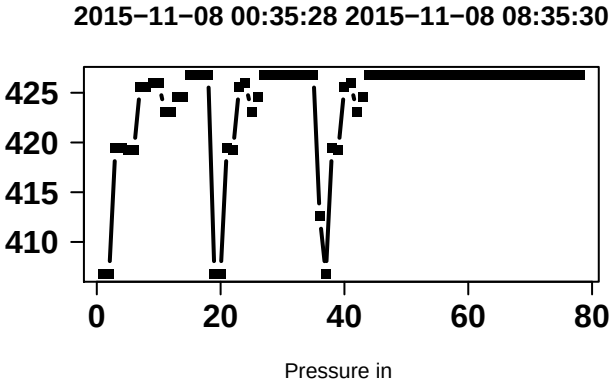

2015−11−07 18:49:46 2015−11−07 18:49:53
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

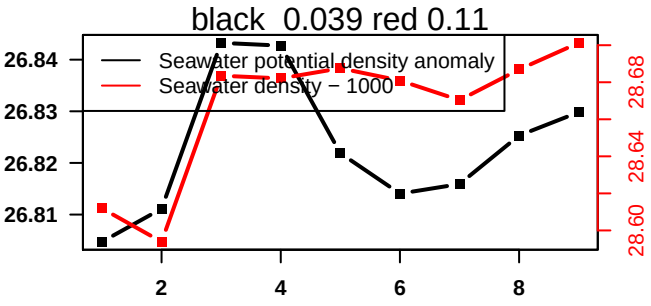

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

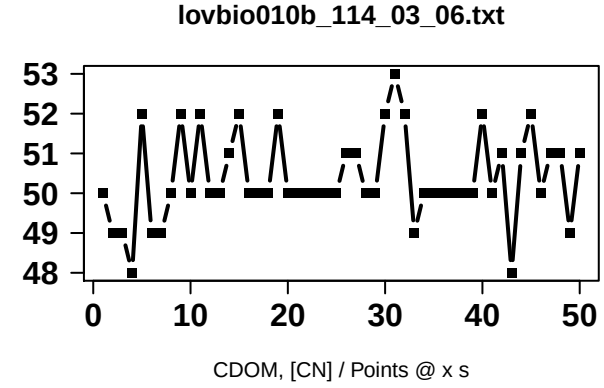

lovbio010b_114_02_06.txt
70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

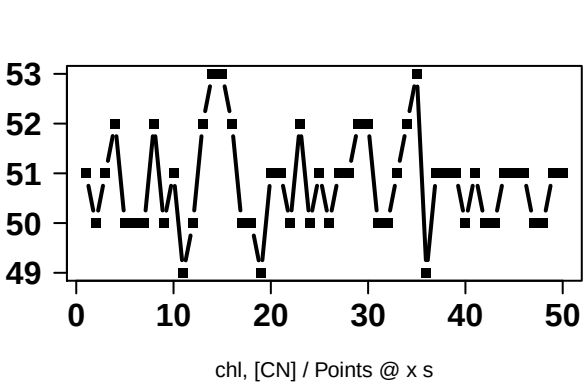

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

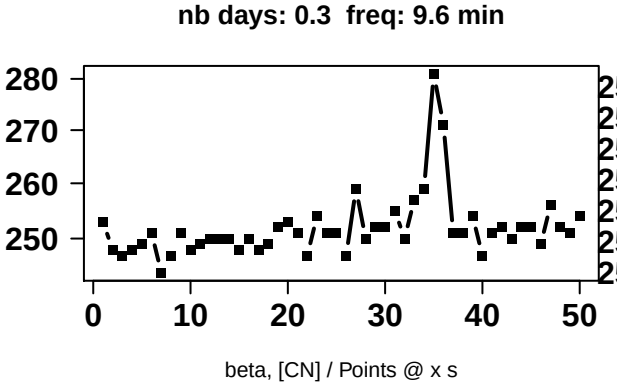

nb days: 0 freq: 0.1 min
2000
1000
500
200
100
50
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

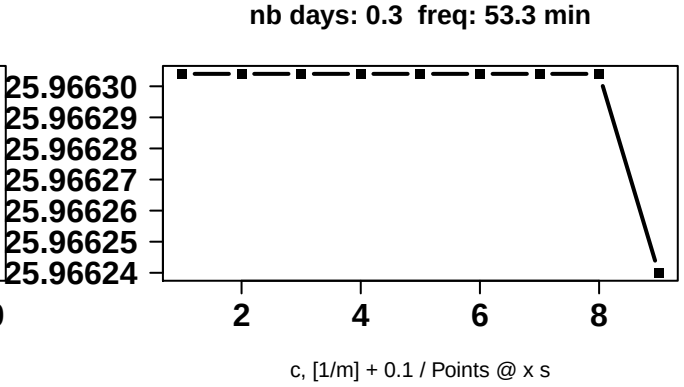

2015−11−08 00:35:28 2015−11−08 08:35:30
425
420
415
410
0
20
40
60
80
Pressure in

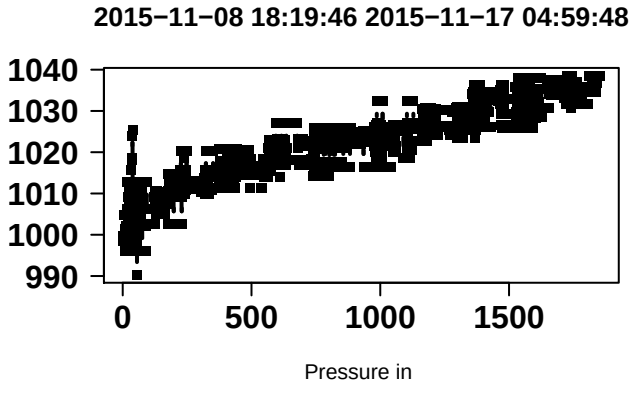

black 0.039 red 0.11
Seawater potential density anomaly
Seawater density − 1000
26.84
26.83
26.82
26.81
28.68
28.64
28.60
2
4
6
8

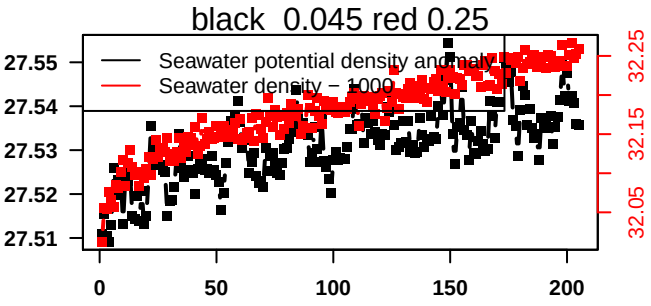

lovbio010b_114_03_06.txt
53
52
51
50
49
48
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

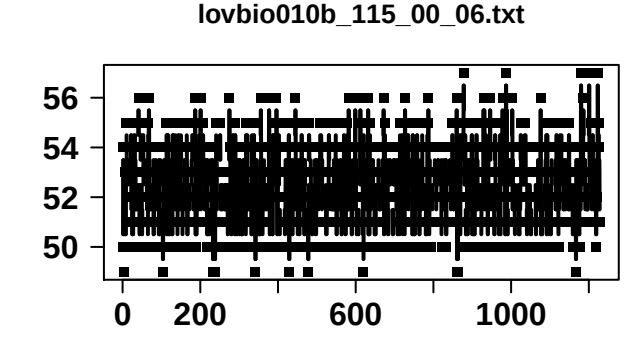

53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

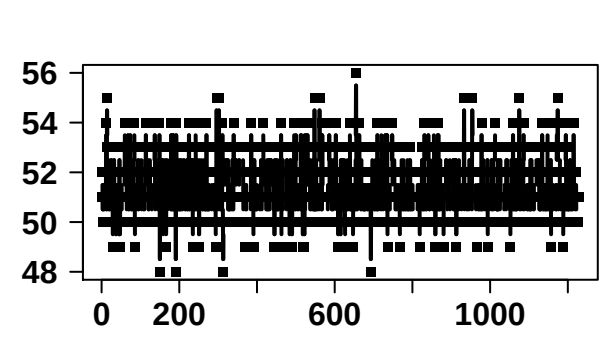

nb days: 0.3 freq: 9.6 min
280
270
260
250
0
10
20
30
40
50
beta, [CN] / Points @ x s

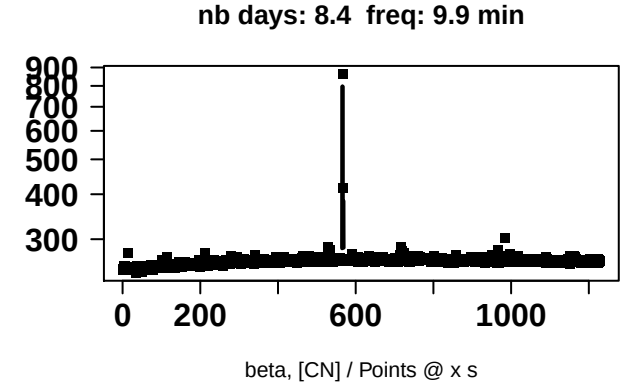

nb days: 0.3 freq: 53.3 min
25.96630
25.96629
25.96628
25.96627
25.96626
25.96625
25.96624
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

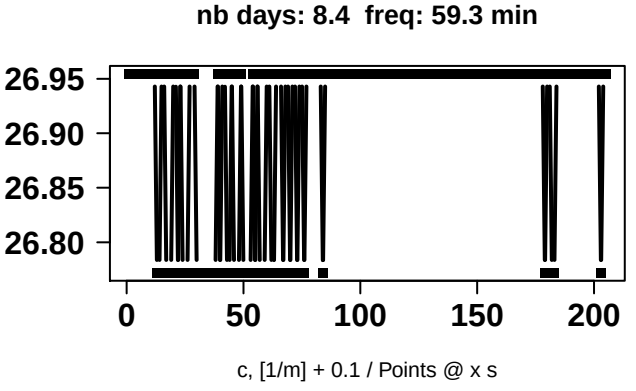

2015−11−08 18:19:46 2015−11−17 04:59:48
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

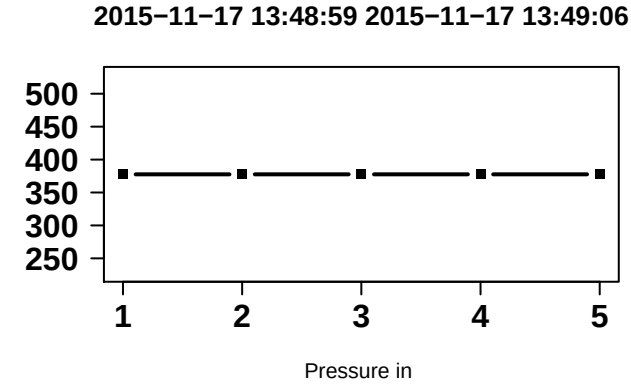

black 0.045 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
32.25
32.15
32.05
0
50
100
150
200

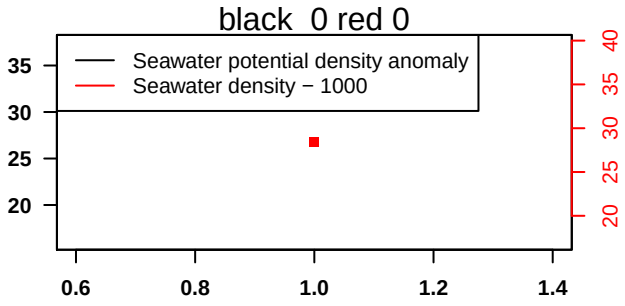

lovbio010b_115_00_06.txt
56
54
52
50
0
200
600
1000
CDOM, [CN] / Points @ x s

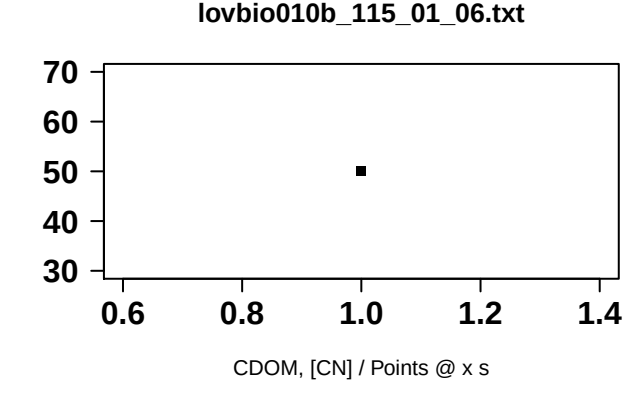

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

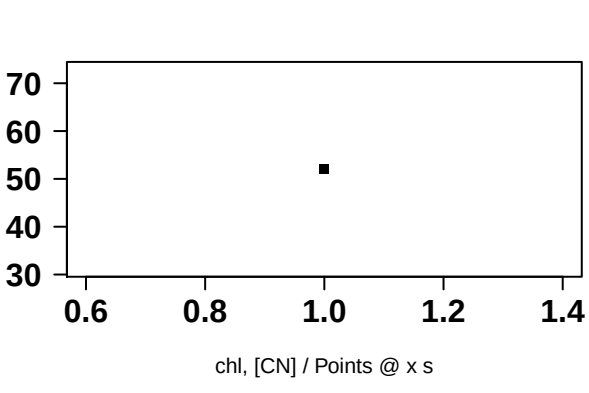

nb days: 8.4 freq: 9.9 min
900
800
700
600
500
400
300
0
200
600
1000
beta, [CN] / Points @ x s

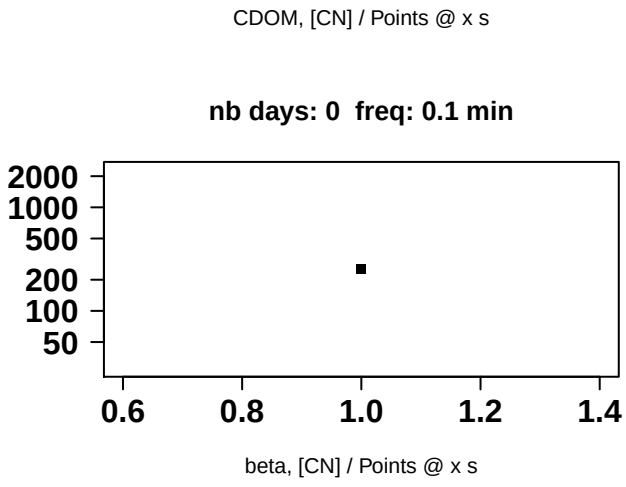

nb days: 8.4 freq: 59.3 min
26.95
26.90
26.85
26.80
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

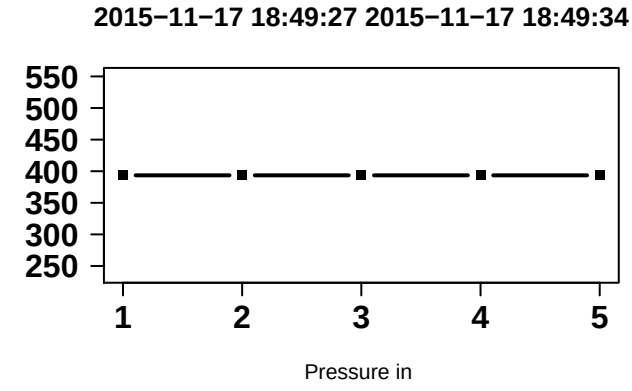

2015−11−17 13:48:59 2015−11−17 13:49:06
500
450
400
350
300
250
1
2
3
4
5
Pressure in

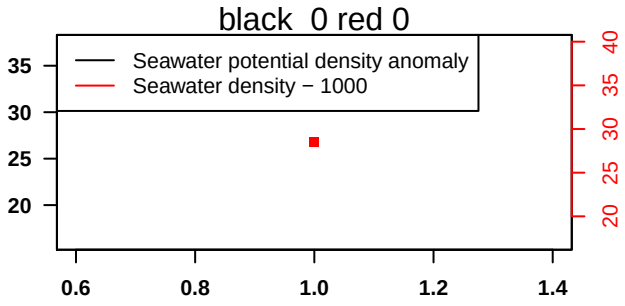

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

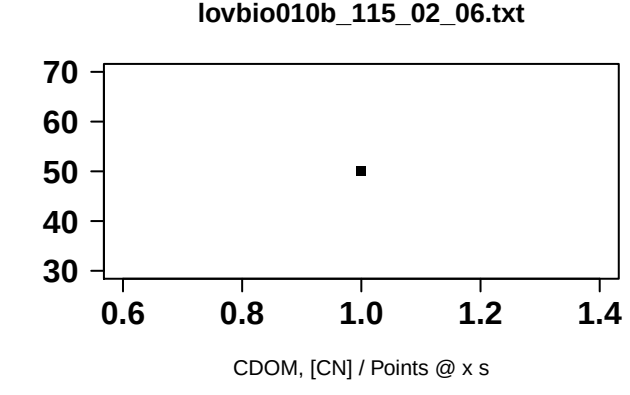

lovbio010b_115_01_06.txt
70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

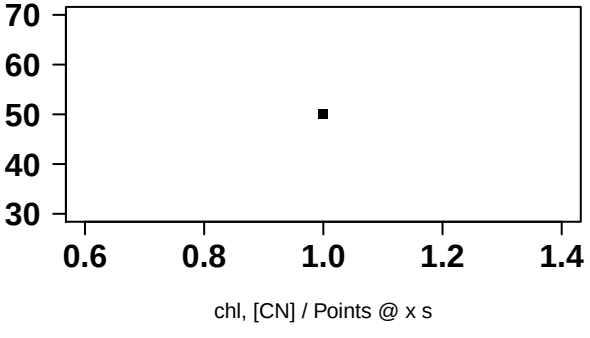

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

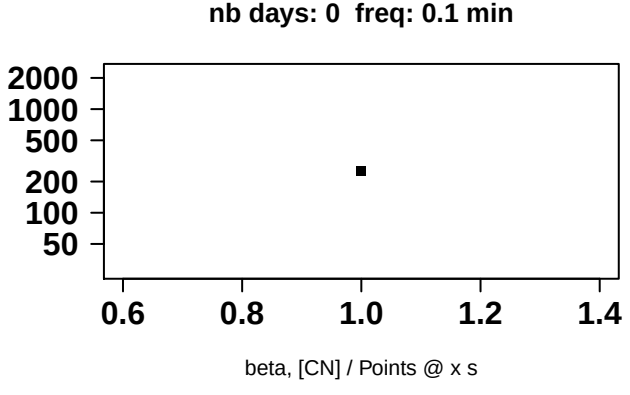

nb days: 0 freq: 0.1 min
2000
1000
500
200
100
50
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

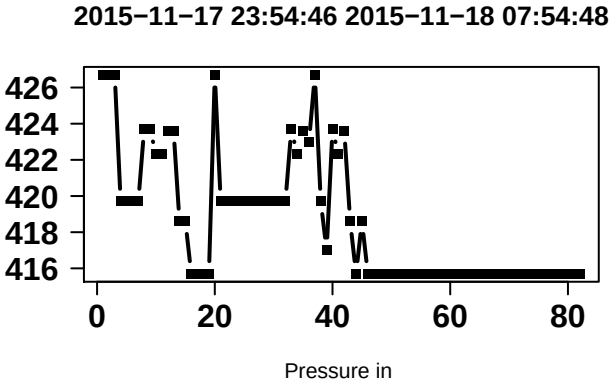

2015−11−17 18:49:27 2015−11−17 18:49:34
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

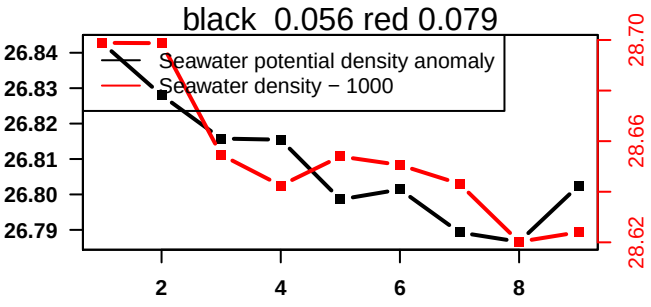

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

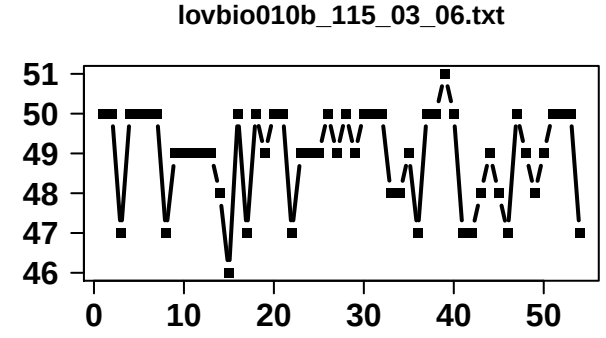

lovbio010b_115_02_06.txt
70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

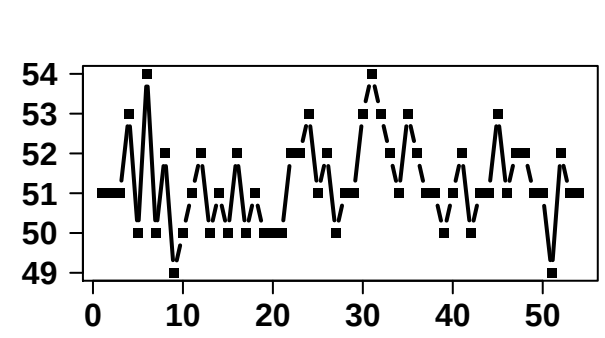

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

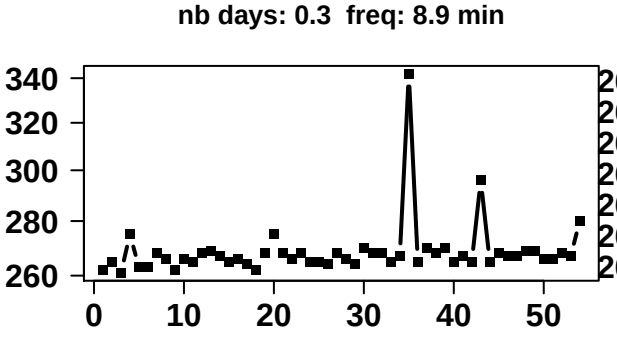

nb days: 0 freq: 0.1 min
2000
1000
500
200
100
50
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

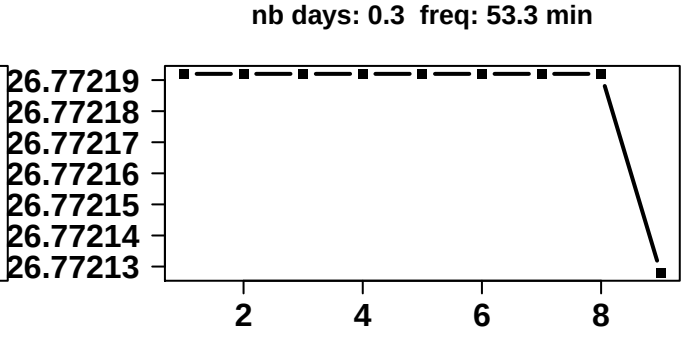

2015−11−17 23:54:46 2015−11−18 07:54:48
426
424
422
420
418
416
0
20
40
60
80
Pressure in

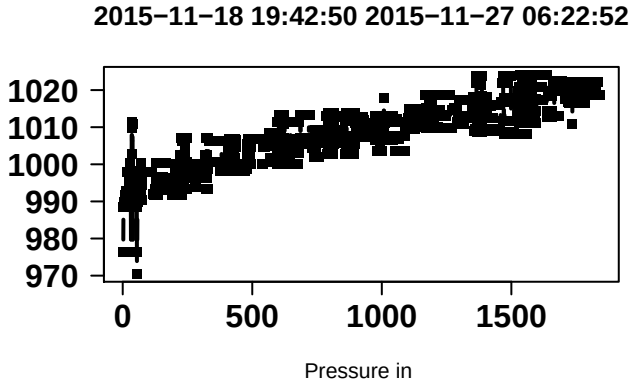

black 0.056 red 0.079
Seawater potential density anomaly
Seawater density − 1000
26.84
26.83
26.82
26.81
26.80
26.79
28.70
28.66
28.62
2
4
6
8

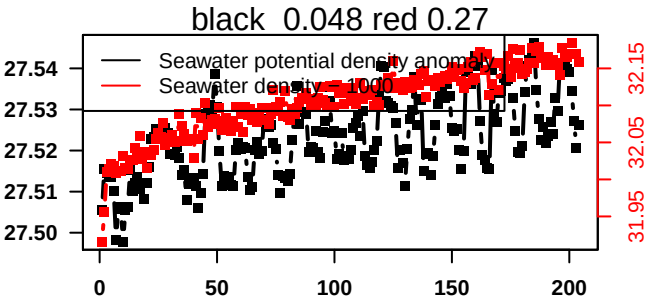

lovbio010b_115_03_06.txt
51
50
49
48
47
46
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

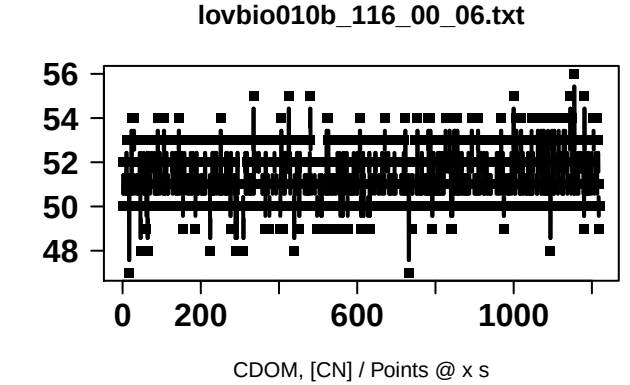

54
53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

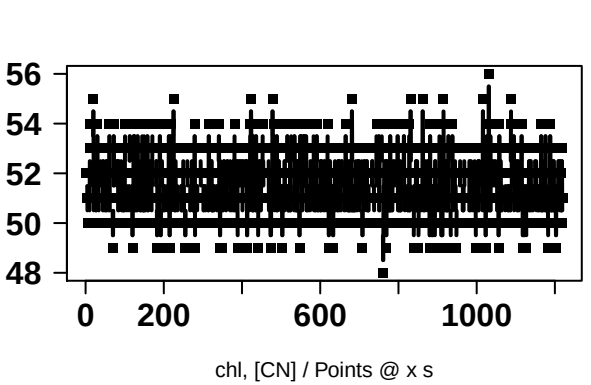

nb days: 0.3 freq: 8.9 min
340
320
300
280
260
0
10
20
30
40
50
beta, [CN] / Points @ x s

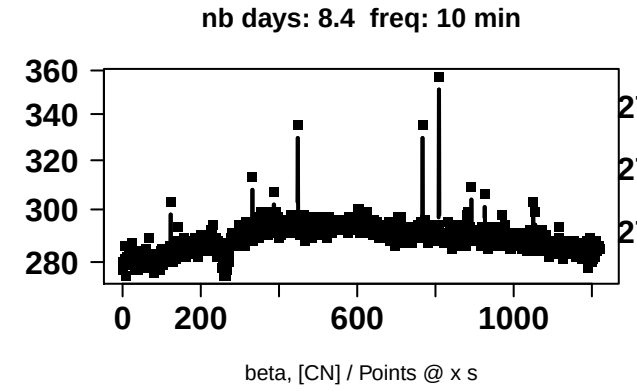

nb days: 0.3 freq: 53.3 min
26.77219
26.77218
26.77217
26.77216
26.77215
26.77214
26.77213
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

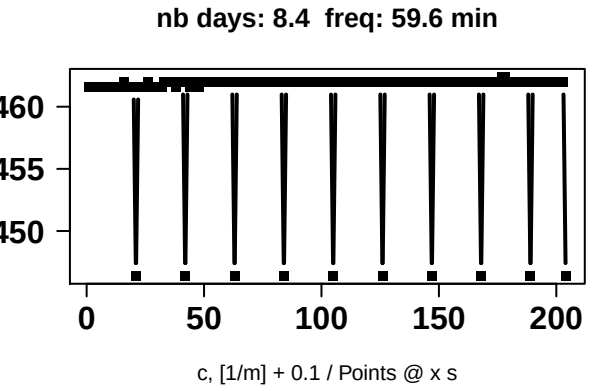

2015−11−18 19:42:50 2015−11−27 06:22:52
1020
1010
1000
990
980
970
0
500
1000
1500
Pressure in

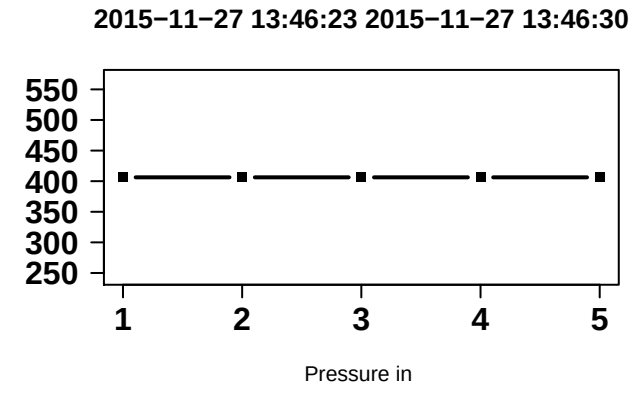

black 0.048 red 0.27
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.15
32.05
31.95
0
50
100
150
200

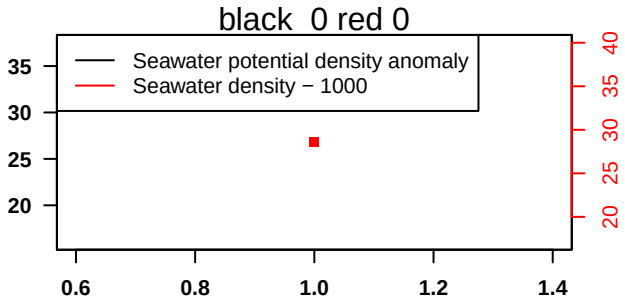

lovbio010b_116_00_06.txt
56
54
52
50
48
0
200
600
1000
CDOM, [CN] / Points @ x s

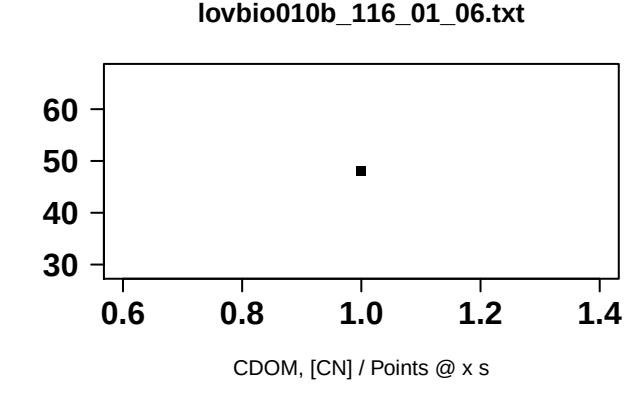

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

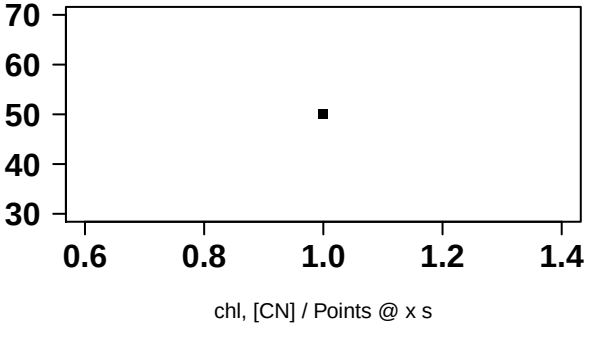

nb days: 8.4 freq: 10 min
360
340
320
300
280
0
200
600
1000
beta, [CN] / Points @ x s

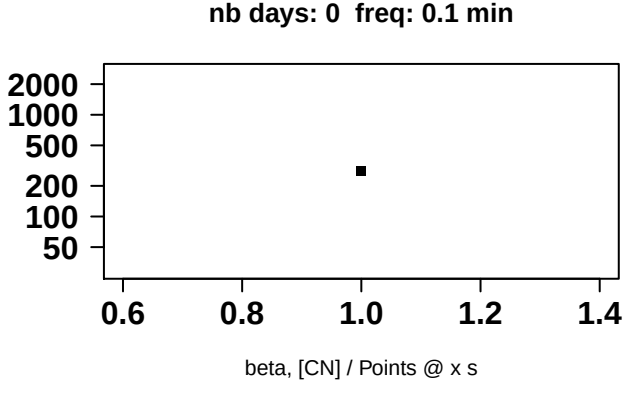

nb days: 8.4 freq: 59.6 min
27.55460
27.55455
27.55450
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

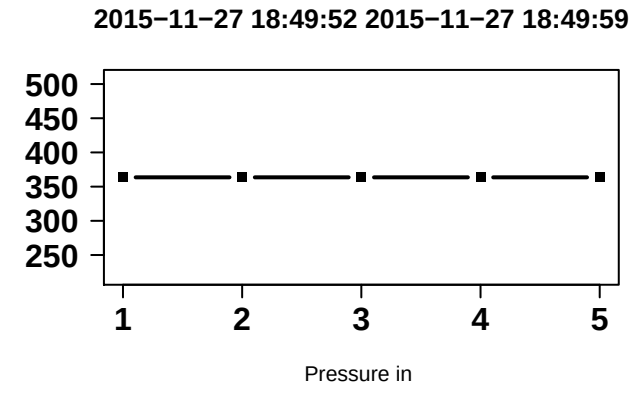

2015−11−27 13:46:23 2015−11−27 13:46:30
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

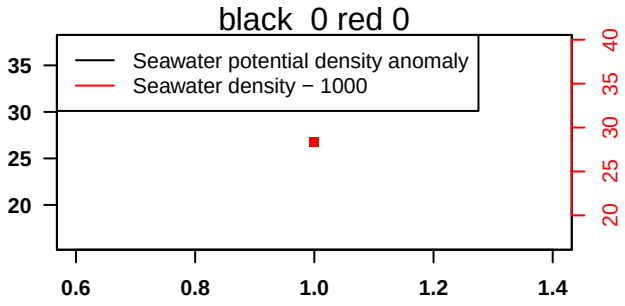

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

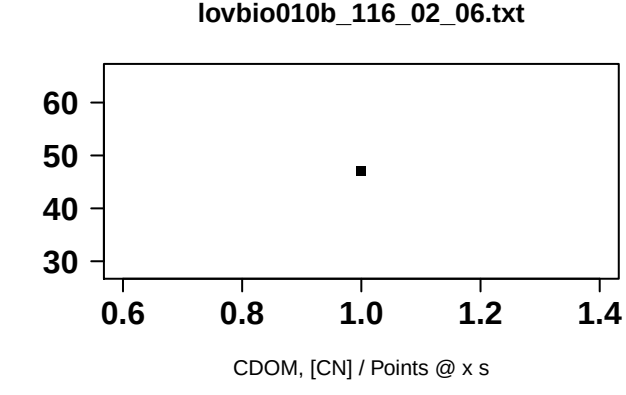

lovbio010b_116_01_06.txt
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

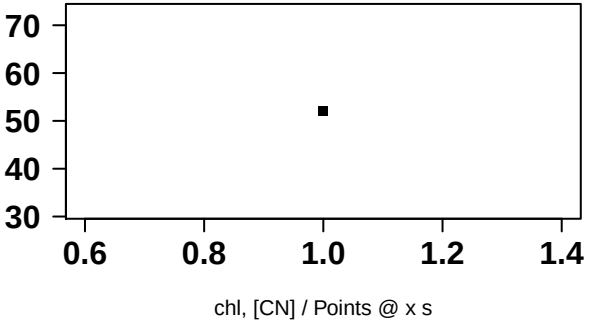

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

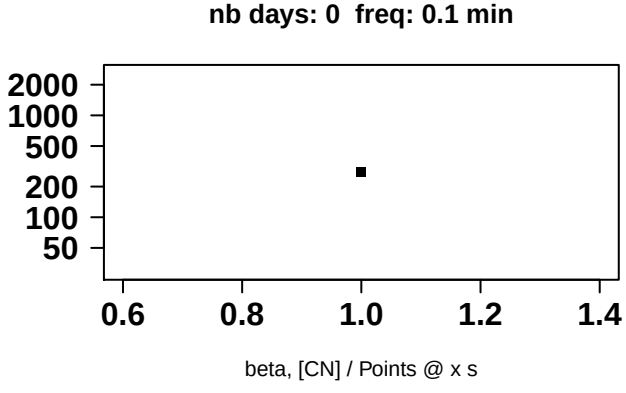

nb days: 0 freq: 0.1 min
2000
1000
500
200
100
50
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

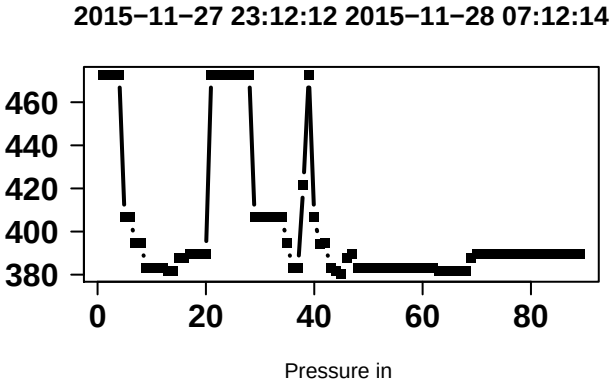

2015−11−27 18:49:52 2015−11−27 18:49:59
500
450
400
350
300
250
1
2
3
4
5
Pressure in

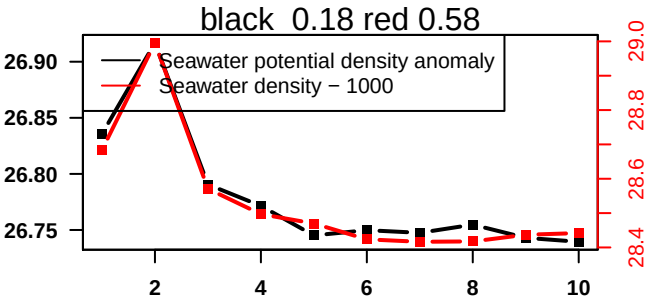

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

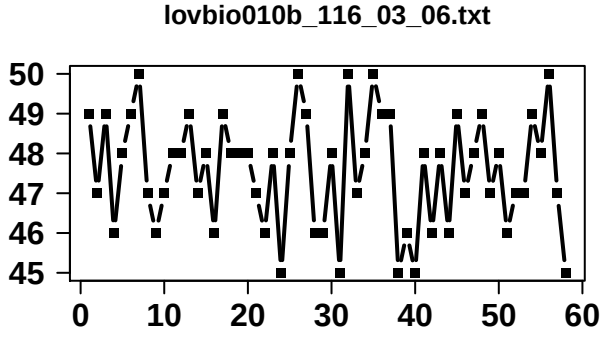

lovbio010b_116_02_06.txt
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

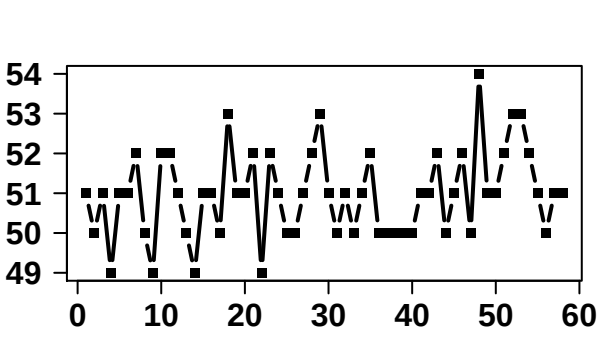

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

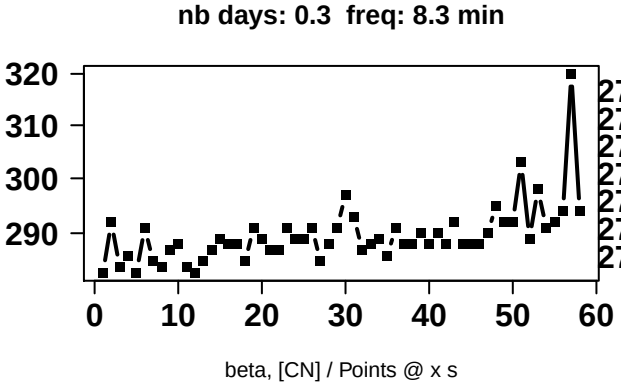

nb days: 0 freq: 0.1 min
2000
1000
500
200
100
50
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

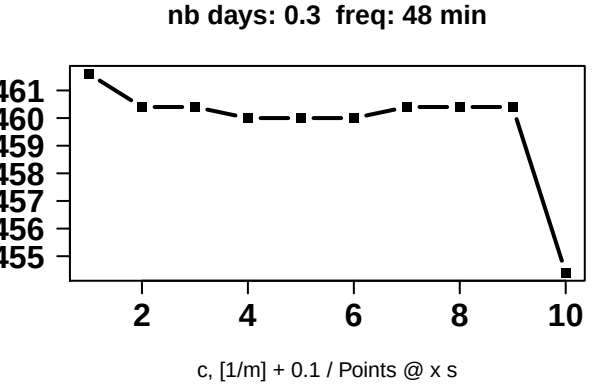

2015−11−27 23:12:12 2015−11−28 07:12:14
460
440
420
400
380
0
20
40
60
80
Pressure in

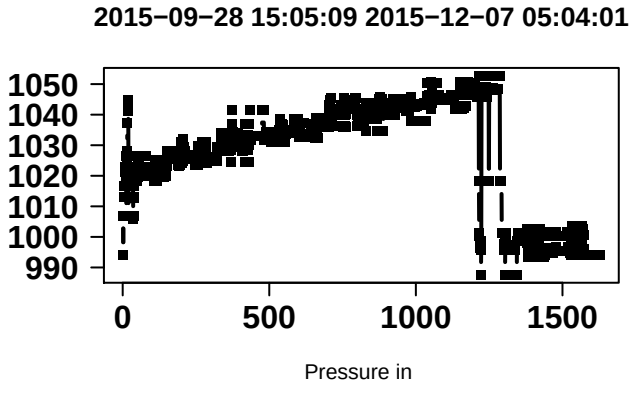

black 0.18 red 0.58
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
26.75
29.0
28.8
28.6
28.4
2
4
6
8
10

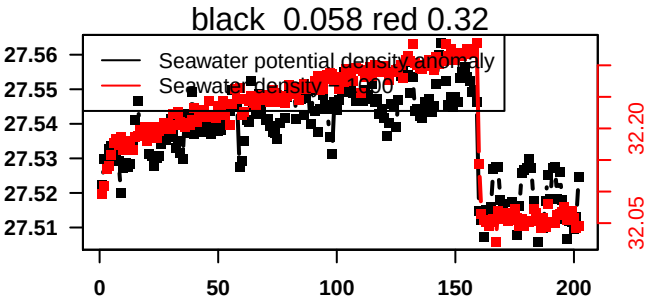

lovbio010b_116_03_06.txt
50
49
48
47
46
45
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

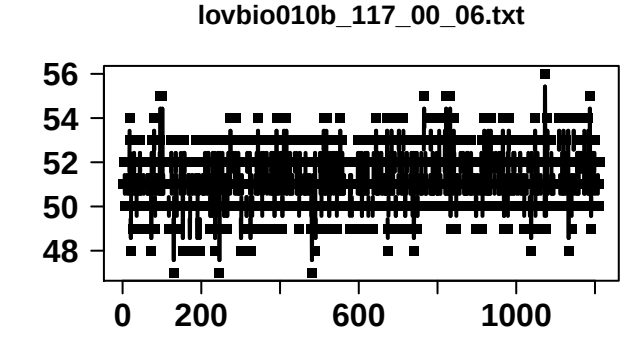

54
53
52
51
50
49
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

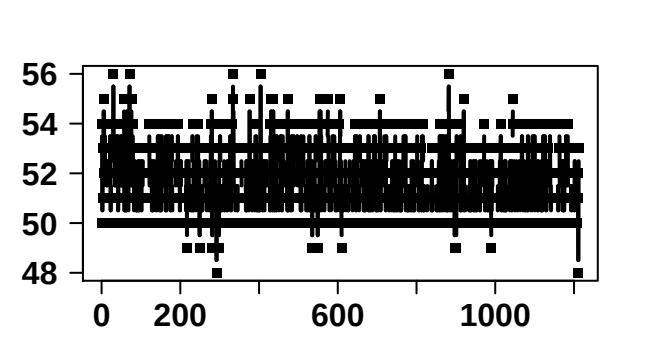

nb days: 0.3 freq: 8.3 min
320
310
300
290
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

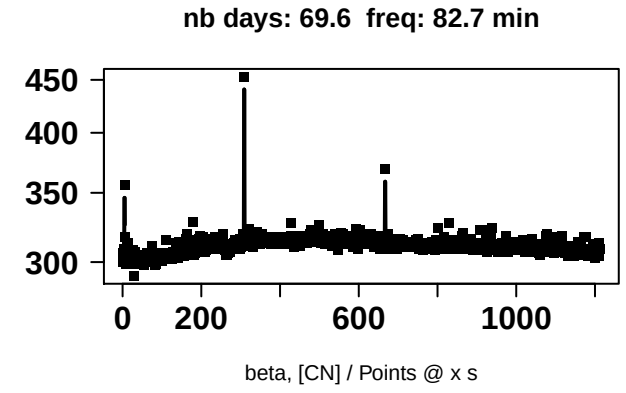

nb days: 0.3 freq: 48 min
27.34461
27.34460
27.34459
27.34458
27.34457
27.34456
27.34455
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

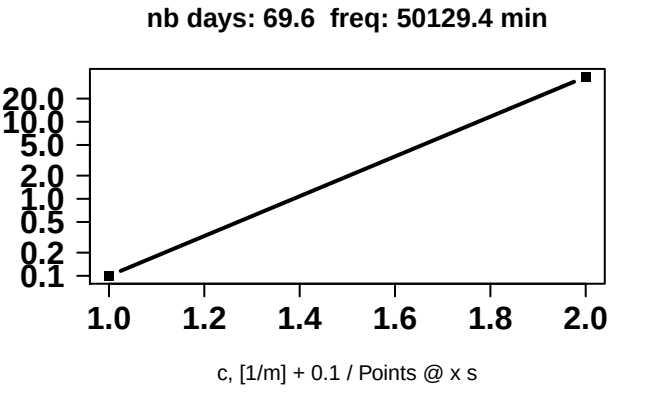

2015−09−28 15:05:09 2015−12−07 05:04:01
1050
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

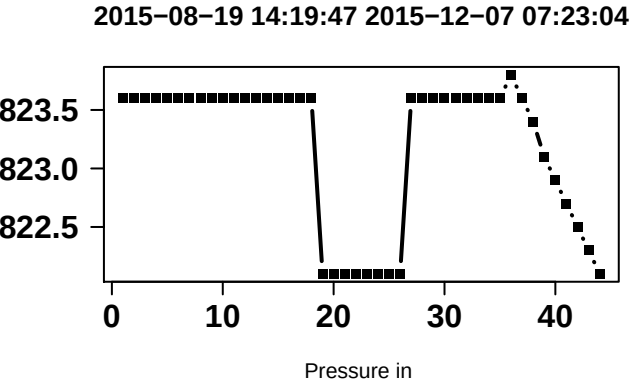

black 0.058 red 0.32
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
27.51
32.20
32.05
0
50
100
150
200

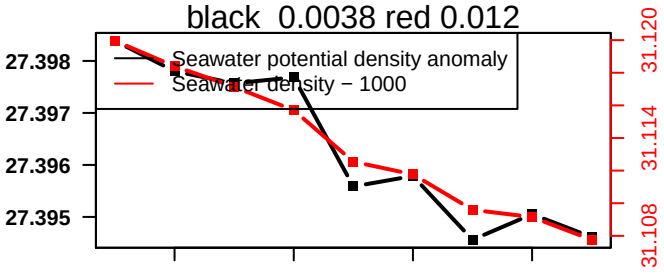

lovbio010b_117_00_06.txt
56
54
52
50
48
0
200
600
1000
CDOM, [CN] / Points @ x s

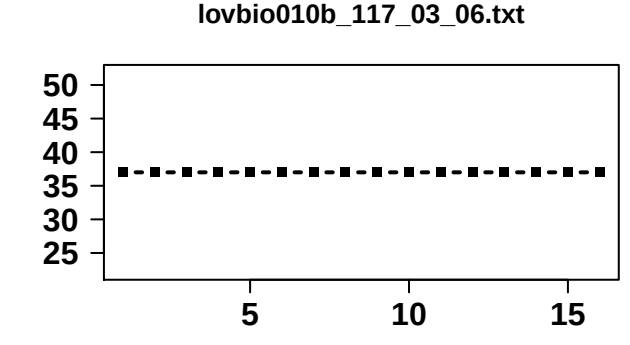

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

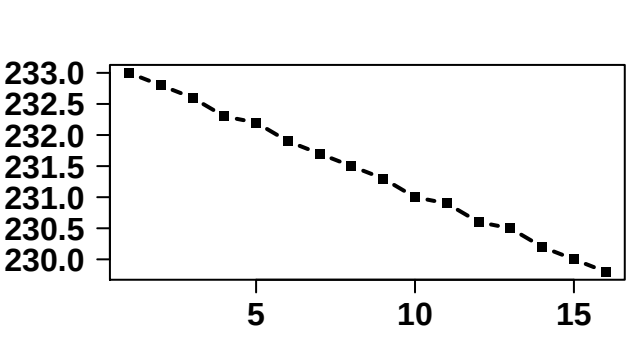

nb days: 69.6 freq: 82.7 min
450
400
350
300
0
200
600
1000
beta, [CN] / Points @ x s

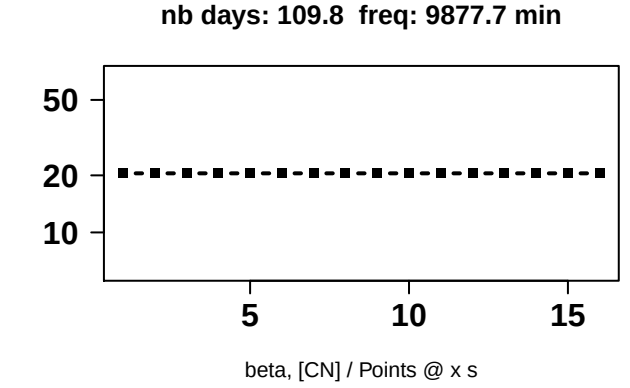

nb days: 69.6 freq: 50129.4 min
20.0
10.0
5.0
2.0
1.0
0.5
0.2
0.1
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

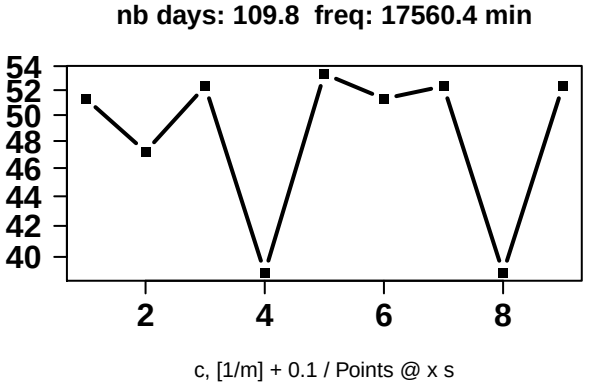

2015−08−19 14:19:47 2015−12−07 07:23:04
823.5
823.0
822.5
0
10
20
30
40
Pressure in

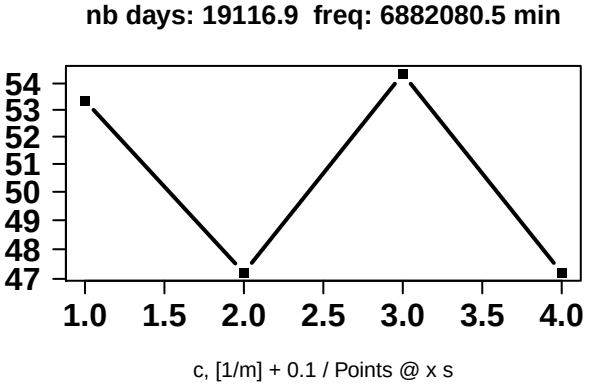

black 0.0038 red 0.012
Seawater potential density anomaly
Seawater density − 1000
27.398
27.397
27.396
27.395
31.120
31.114
31.108
2
4
6
8

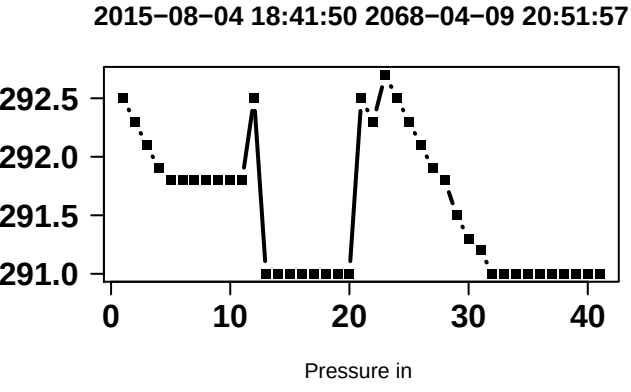

lovbio010b_117_03_06.txt
50
45
40
35
30
25
5
10
15
CDOM, [CN] / Points @ x s

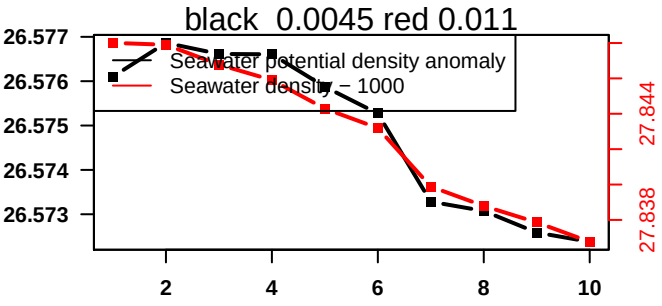

233.0
232.5
232.0
231.5
231.0
230.5
230.0
5
10
15
chl, [CN] / Points @ x s

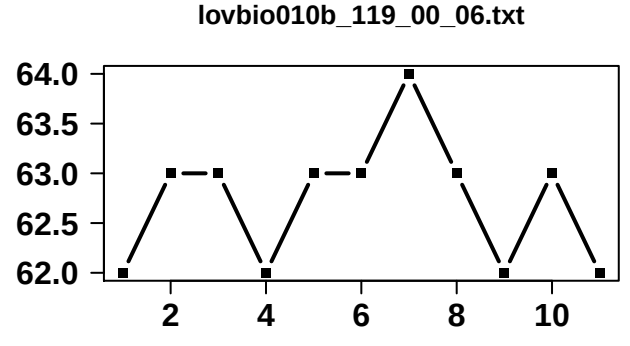

nb days: 109.8 freq: 9877.7 min
50
20
10
5
10
15
beta, [CN] / Points @ x s

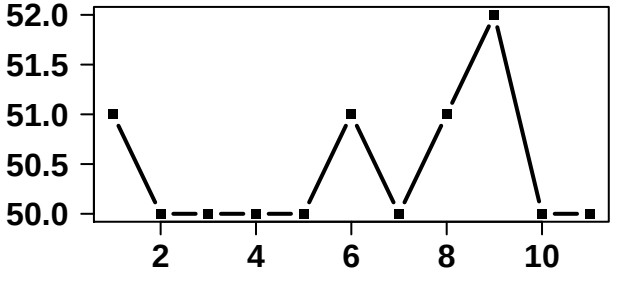

nb days: 109.8 freq: 17560.4 min
54
52
50
48
46
44
42
40
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

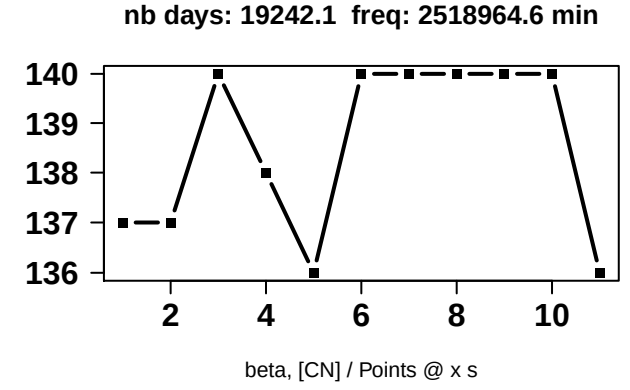

nb days: 19116.9 freq: 6882080.5 min
54
53
52
51
50
49
48
47
1.0
1.5
2.0
2.5
3.0
3.5
4.0
c, [1/m] + 0.1 / Points @ x s

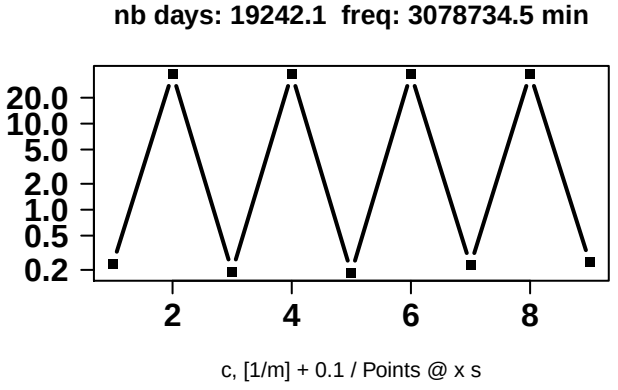

2015−08−04 18:41:50 2068−04−09 20:51:57
292.5
292.0
291.5
291.0
0
10
20
30
40
Pressure in

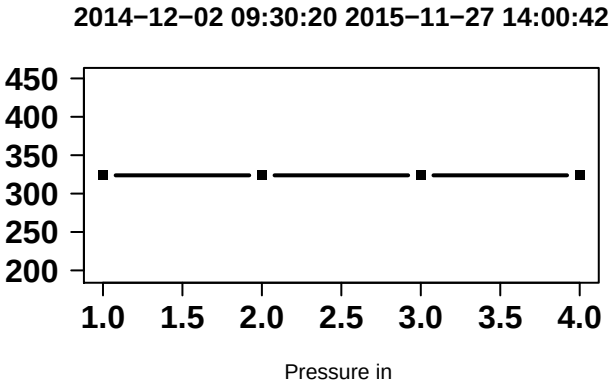

black 0.0045 red 0.011
26.577
26.576
26.575
26.574
26.573
Seawater potential density anomaly
Seawater density − 1000
27.844
27.838
2
4
6
8
10

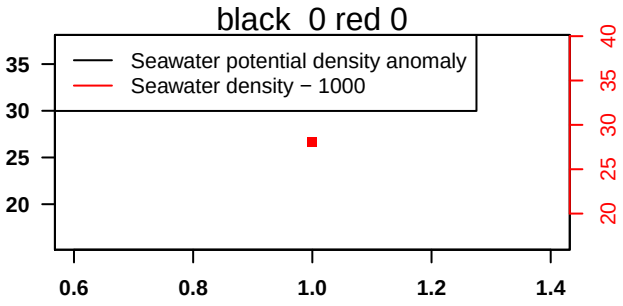

lovbio010b_119_00_06.txt
64.0
63.5
63.0
62.5
62.0
2
4
6
8
10
CDOM, [CN] / Points @ x s

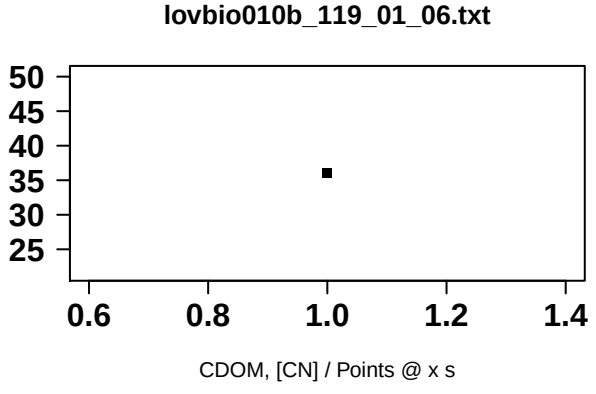

52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

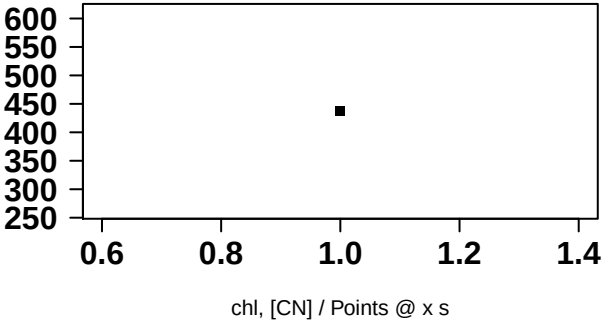

nb days: 19242.1 freq: 2518964.6 min
140
139
138
137
136
2
4
6
8
10
beta, [CN] / Points @ x s

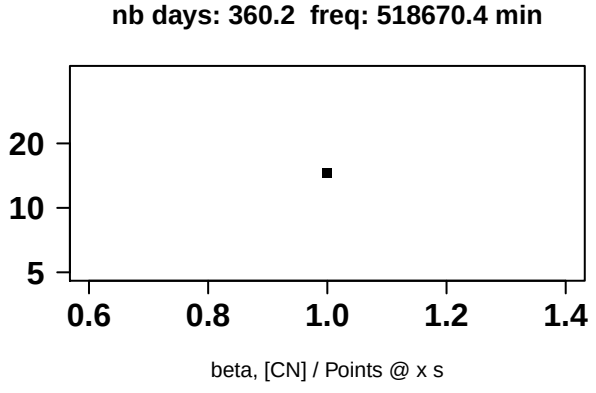

nb days: 19242.1 freq: 3078734.5 min
20.0
10.0
5.0
2.0
1.0
0.5
0.2
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

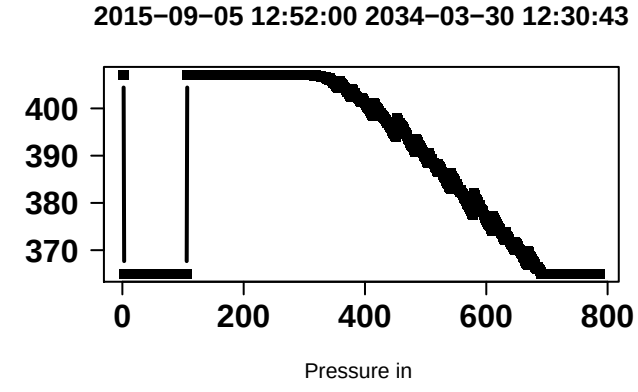

2014−12−02 09:30:20 2015−11−27 14:00:42
450
400
350
300
250
200
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

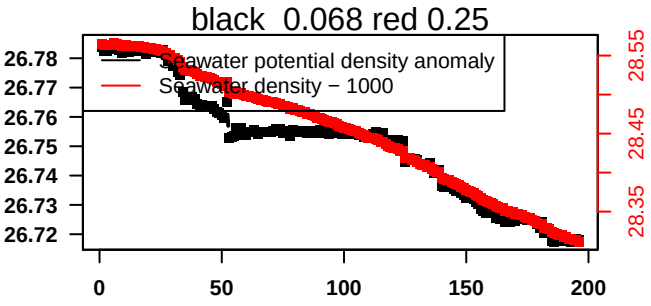

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

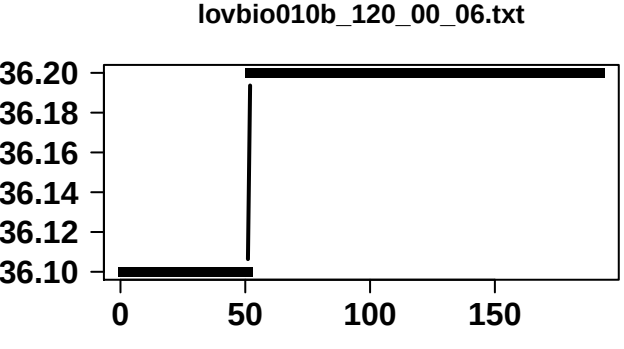

lovbio010b_119_01_06.txt
50
45
40
35
30
25
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

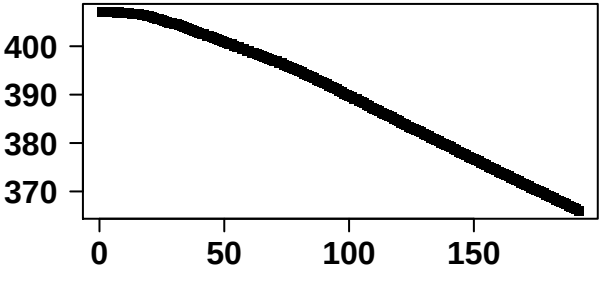

600
550
500
450
400
350
300
250
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

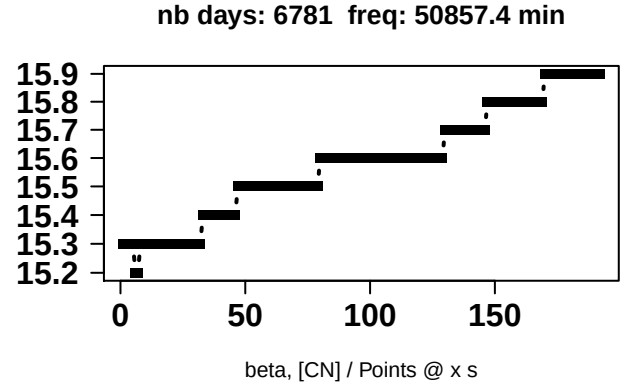

nb days: 360.2 freq: 518670.4 min
20
10
5
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

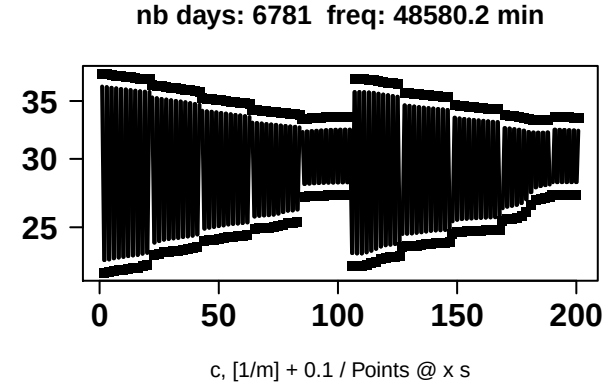

2015−09−05 12:52:00 2034−03−30 12:30:43
400
390
380
370
0
200
400
600
800
Pressure in

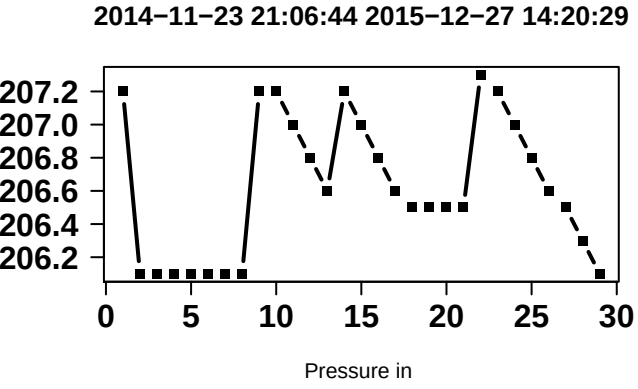

black 0.068 red 0.25
Seawater potential density anomaly
Seawater density − 1000
26.78
26.77
26.76
26.75
26.74
26.73
26.72
28.55
28.45
28.35
0
50
100
150
200

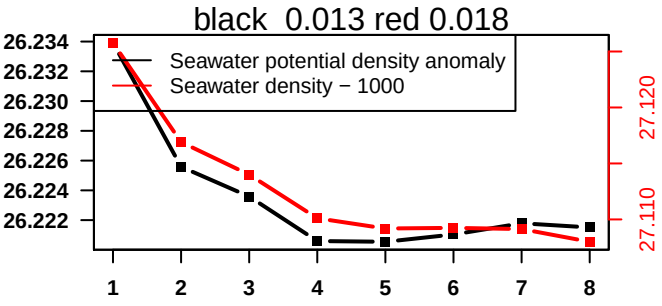

lovbio010b_120_00_06.txt
36.20
36.18
36.16
36.14
36.12
36.10
0
50
100
150
CDOM, [CN] / Points @ x s

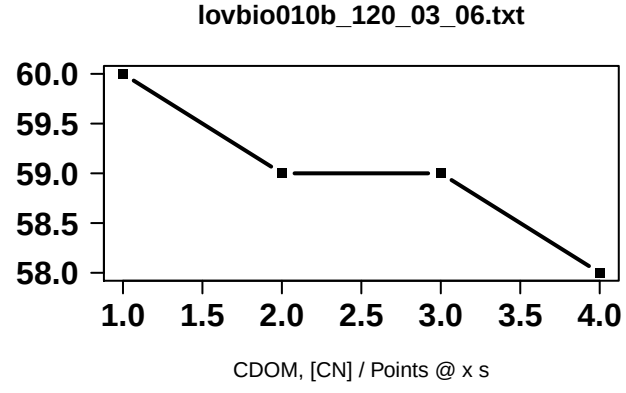

400
390
380
370
0
50
100
150
chl, [CN] / Points @ x s

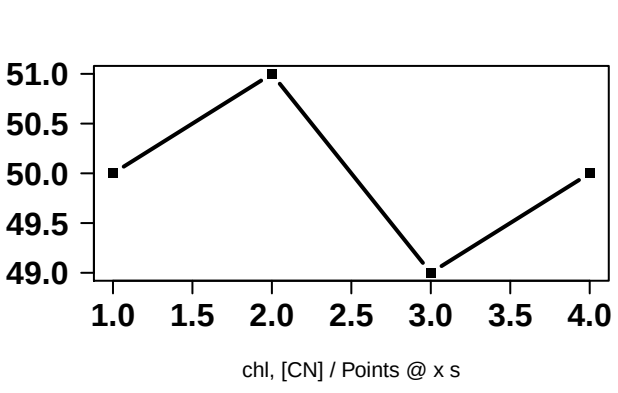

nb days: 6781 freq: 50857.4 min
15.9
15.8
15.7
15.6
15.5
15.4
15.3
15.2
0
50
100
150
beta, [CN] / Points @ x s

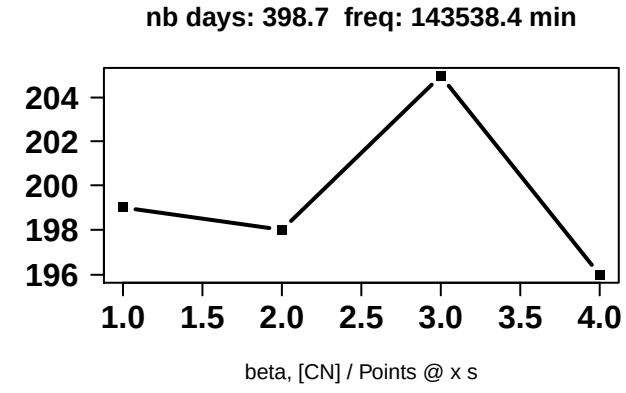

nb days: 6781 freq: 48580.2 min
35
30
25
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

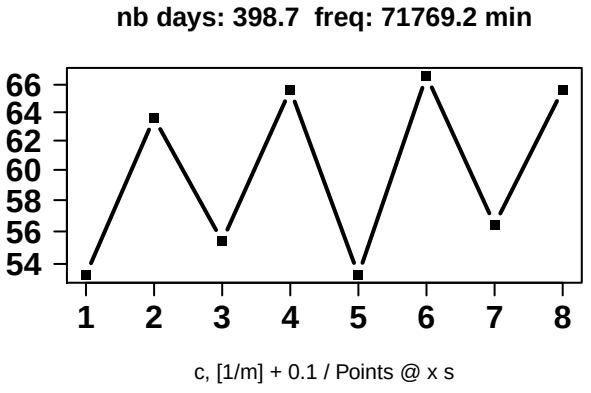

2014−11−23 21:06:44 2015−12−27 14:20:29
207.2
207.0
206.8
206.6
206.4
206.2
0
5
10
15
20
25
30
Pressure in

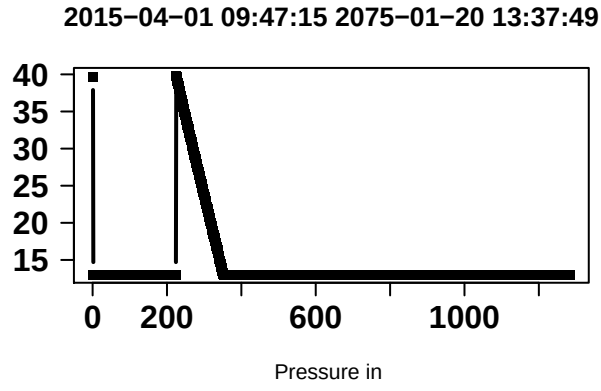

black 0.013 red 0.018
26.234
26.232
26.230
26.228
26.226
26.224
26.222
Seawater potential density anomaly
Seawater density − 1000
27.120
27.110
1
2
3
4
5
6
7
8

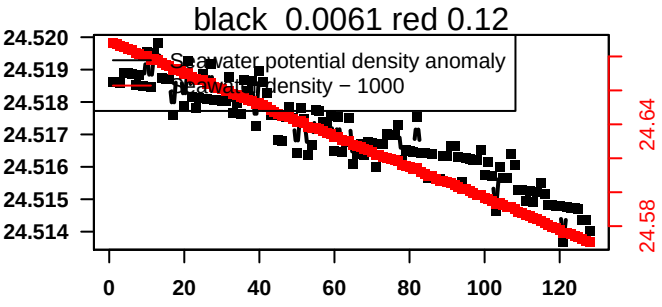

lovbio010b_120_03_06.txt
60.0
59.5
59.0
58.5
58.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

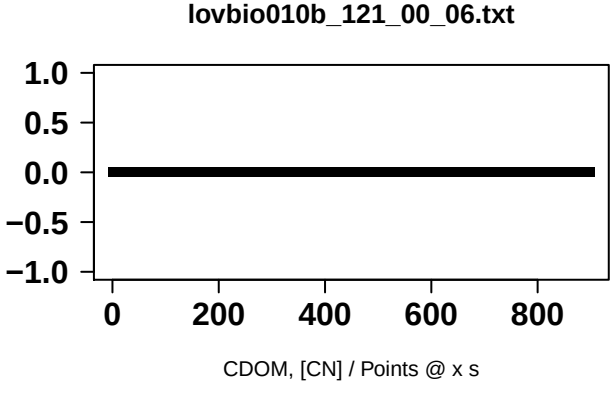

51.0
50.5
50.0
49.5
49.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

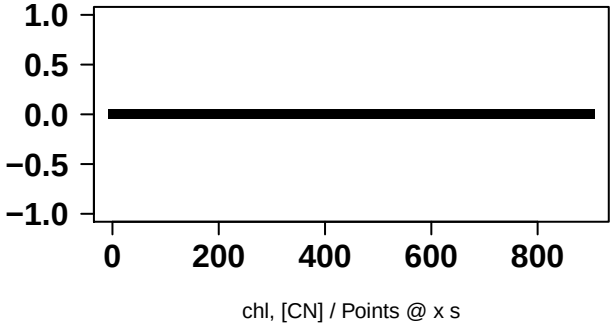

nb days: 398.7 freq: 143538.4 min
204
202
200
198
196
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s


nb days: 398.7 freq: 71769.2 min
66
64
62
60
58
56
54
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s


2015−04−01 09:47:15 2075−01−20 13:37:49
40
35
30
25
20
15
0
200
600
1000
Pressure in


black 0.0061 red 0.12
Seawater potential density anomaly
Seawater density − 1000
24.520
24.519
24.518
24.517
24.516
24.515
24.514
24.64
24.58
0
20
40
60
80
100
120


lovbio010b_121_00_06.txt
1.0
0.5
0.0
−0.5
−1.0
0
200
400
600
800
CDOM, [CN] / Points @ x s


1.0
0.5
0.0
−0.5
−1.0
0
200
400
600
800
chl, [CN] / Points @ x s