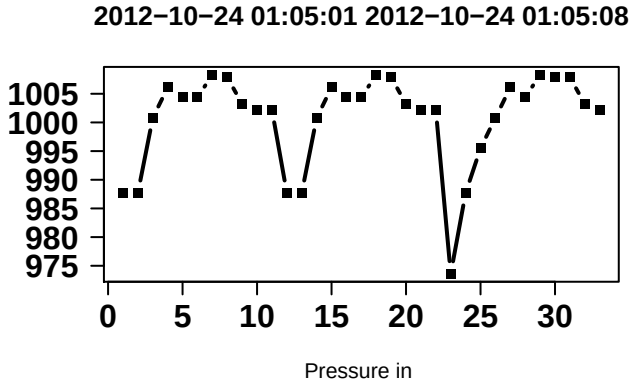
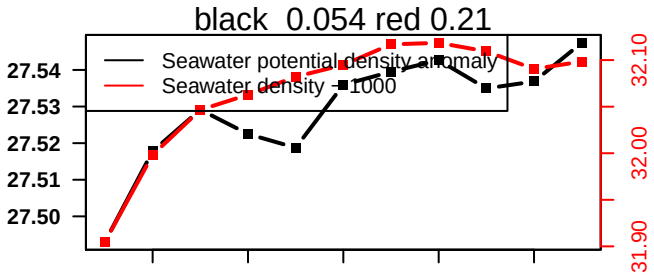
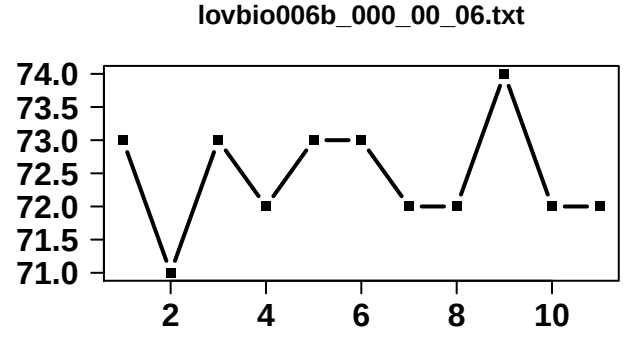
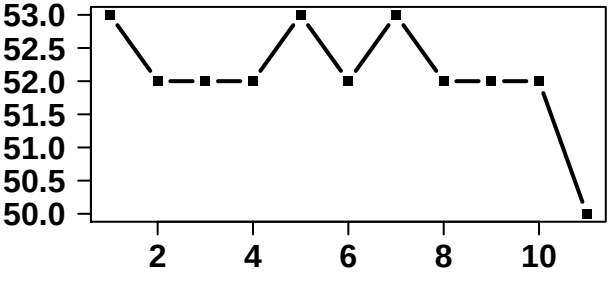
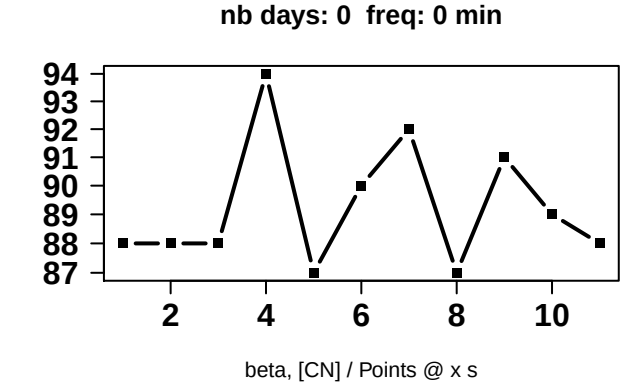
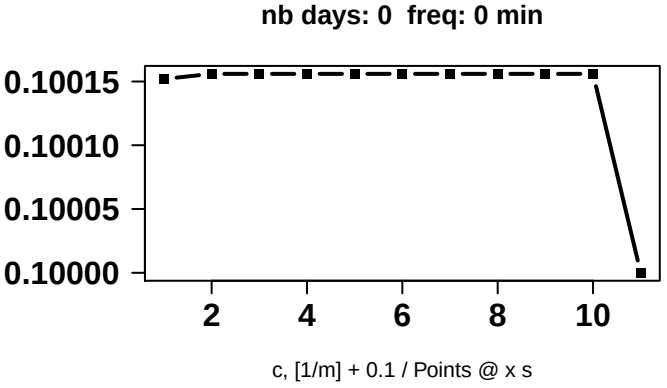

2012−10−24 01:05:01 2012−10−24 01:05:08
1005
1000
995
990
985
980
975
0
5
10
15
20
25
30
Pressure in

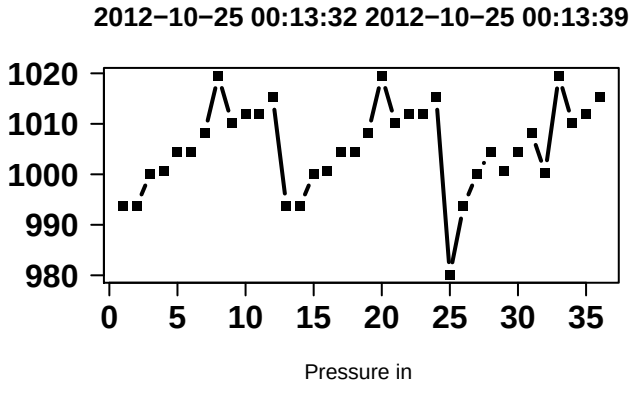

black 0.054 red 0.21
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.10
32.00
31.90
2
4
6
8
10

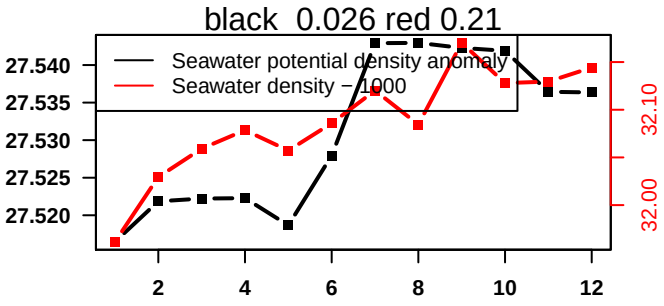

lovbio006b_000_00_06.txt
74.0
73.5
73.0
72.5
72.0
71.5
71.0
2
4
6
8
10
CDOM, [CN] / Points @ x s

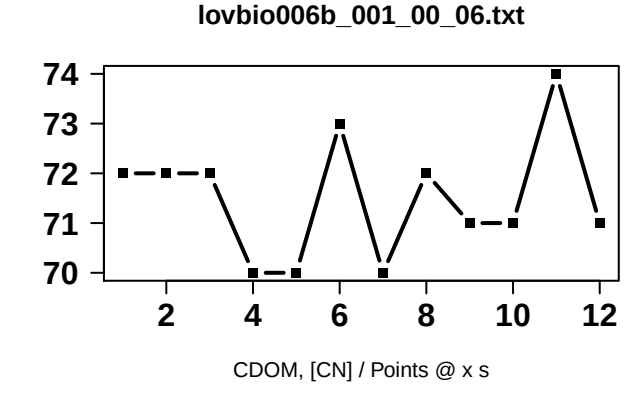

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

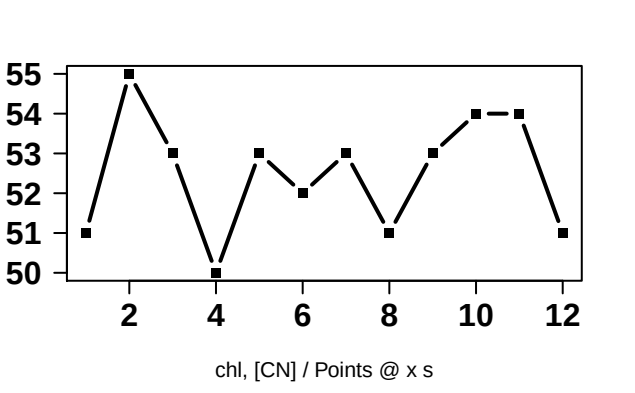

nb days: 0 freq: 0 min
94
93
92
91
90
89
88
87
2
4
6
8
10
beta, [CN] / Points @ x s

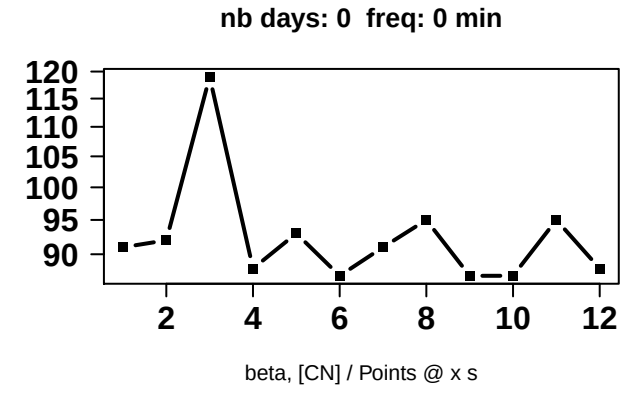

nb days: 0 freq: 0 min
0.10015
0.10010
0.10005
0.10000
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

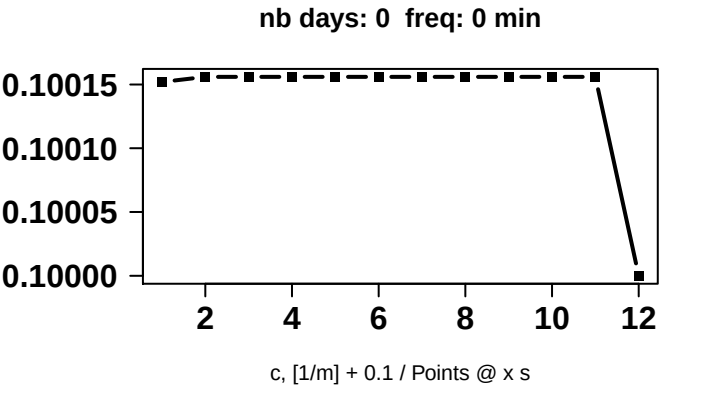

2012−10−25 00:13:32 2012−10−25 00:13:39
1020
1010
1000
990
980
0 5 10 15 20 25 30 35
Pressure in

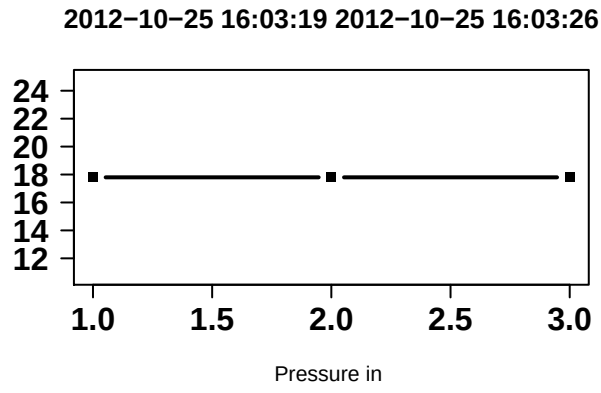

black 0.026 red 0.21
Seawater potential density anomaly
Seawater density − 1000
27.540
27.535
27.530
27.525
27.520
32.10
32.00
2 4 6 8 10 12

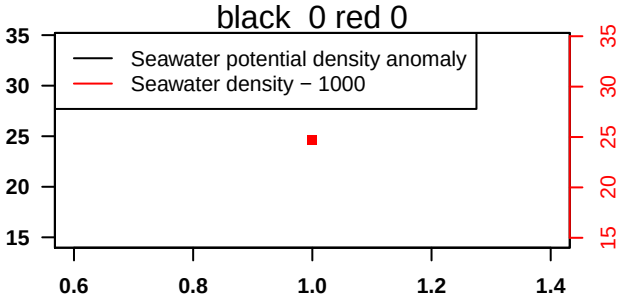

lovbio006b_001_00_06.txt
74
73
72
71
70
2 4 6 8 10 12
CDOM, [CN] / Points @ x s

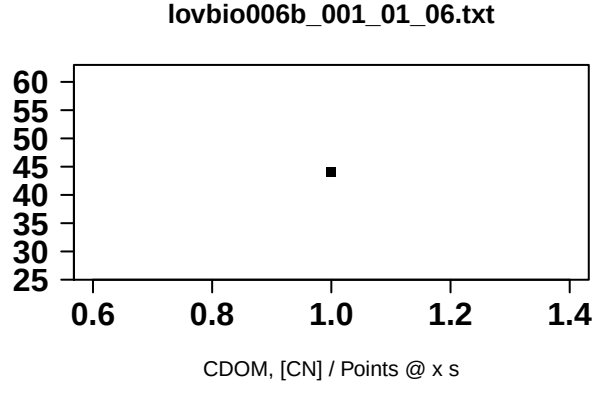

55
54
53
52
51
50
2 4 6 8 10 12
chl, [CN] / Points @ x s

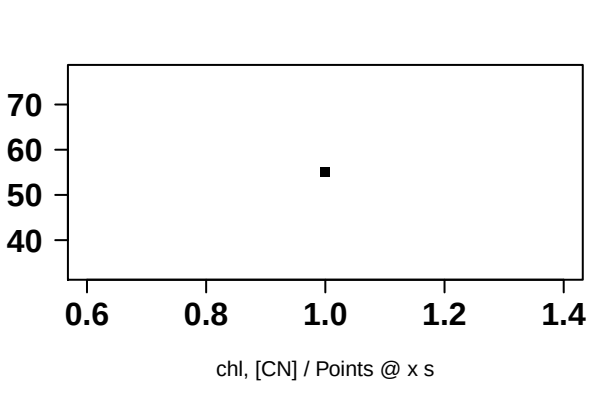

nb days: 0 freq: 0 min
120
115
110
105
100
95
90
2 4 6 8 10 12
beta, [CN] / Points @ x s

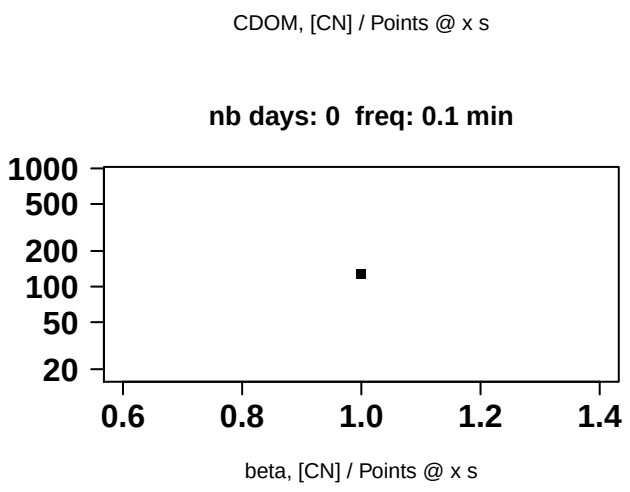

nb days: 0 freq: 0 min
0.10015
0.10010
0.10005
0.10000
2 4 6 8 10 12
c, [1/m] + 0.1 / Points @ x s

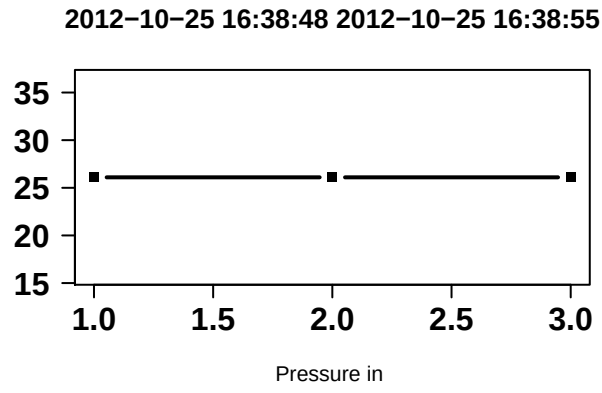

2012−10−25 16:03:19 2012−10−25 16:03:26
24
22
20
18
16
14
12
1.0
1.5
2.0
2.5
3.0
Pressure in

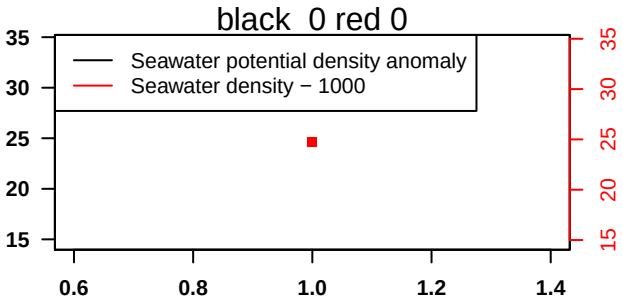

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
15
0.6
0.8
1.0
1.2
1.4

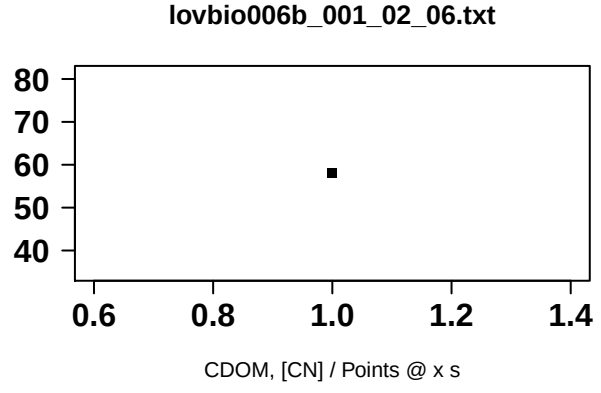

lovbio006b_001_01_06.txt
60
55
50
45
40
35
30
25
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

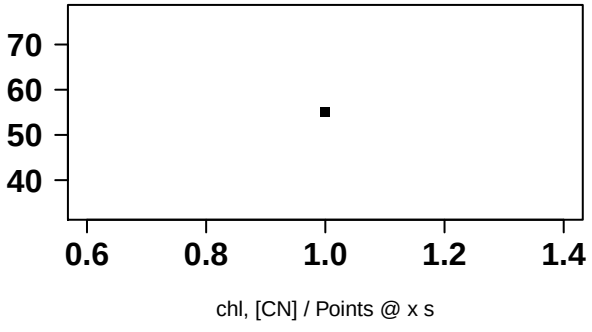

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

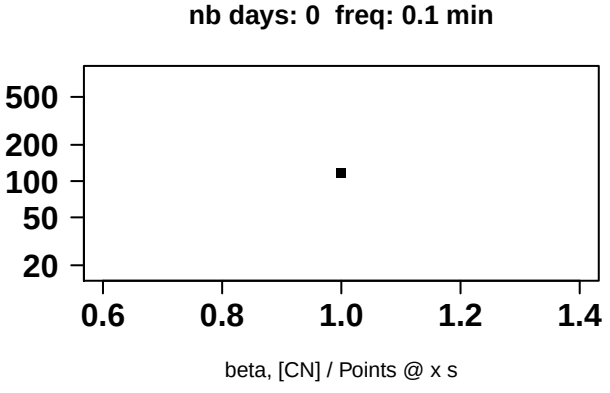

nb days: 0 freq: 0.1 min
1000
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

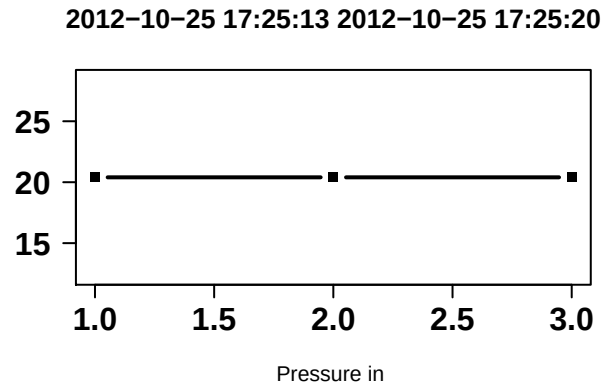

2012−10−25 16:38:48 2012−10−25 16:38:55
35
30
25
20
15
1.0
1.5
2.0
2.5
3.0
Pressure in

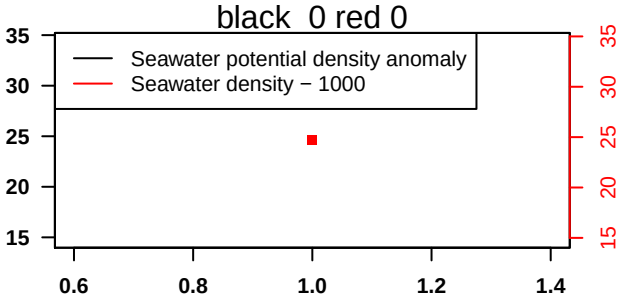

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
15
0.6
0.8
1.0
1.2
1.4

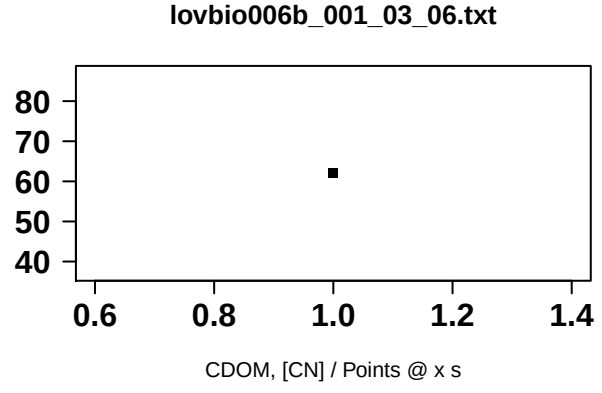

lovbio006b_001_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

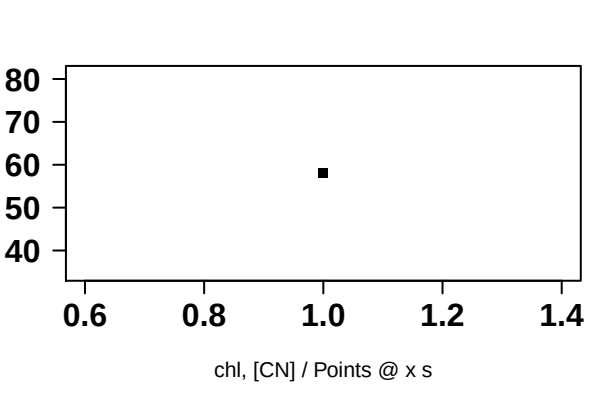

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

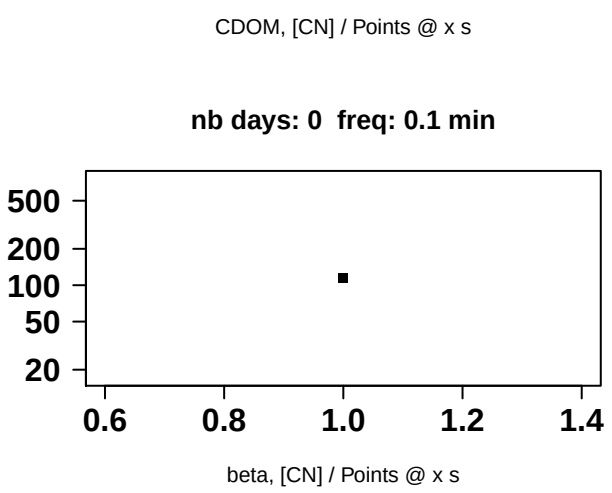

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

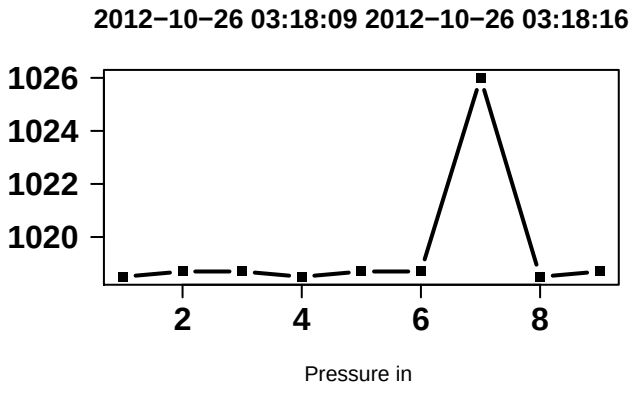

2012−10−25 17:25:13 2012−10−25 17:25:20
25
20
15
1.0
1.5
2.0
2.5
3.0
Pressure in

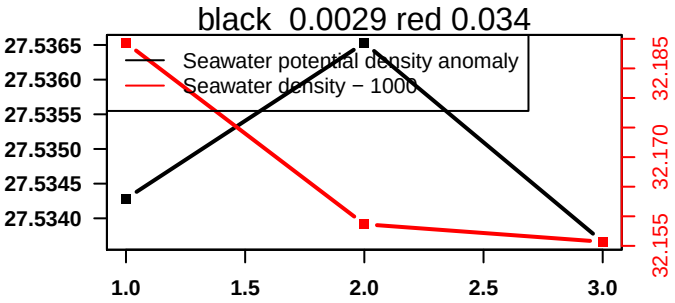

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
15
0.6
0.8
1.0
1.2
1.4

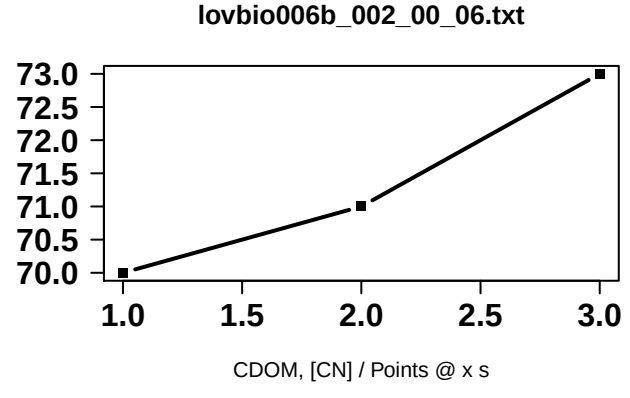

lovbio006b_001_03_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

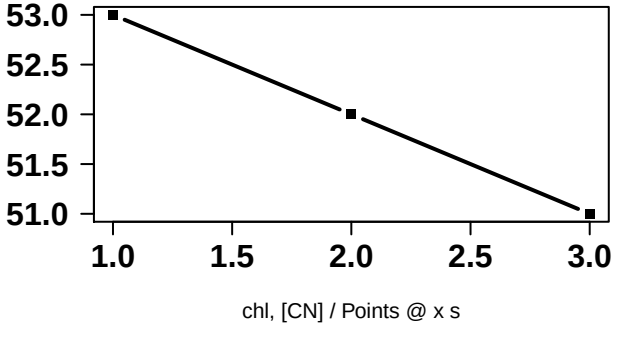

80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

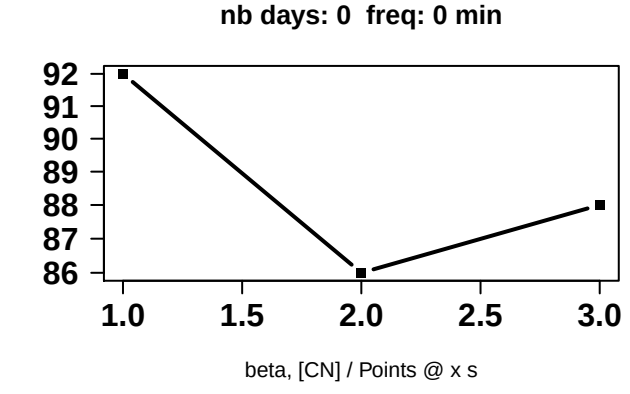

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

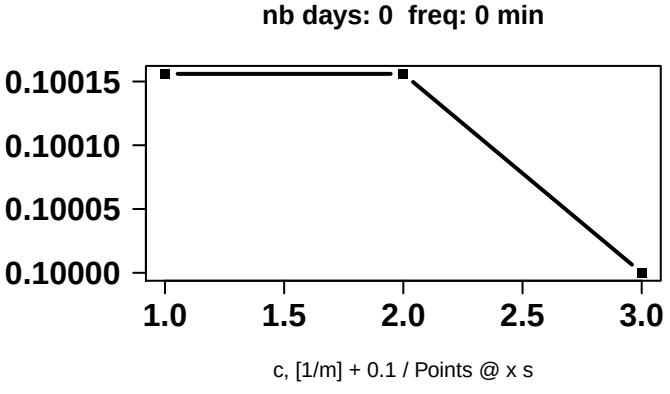

2012−10−26 03:18:09 2012−10−26 03:18:16
1026
1024
1022
1020
2
4
6
8
Pressure in

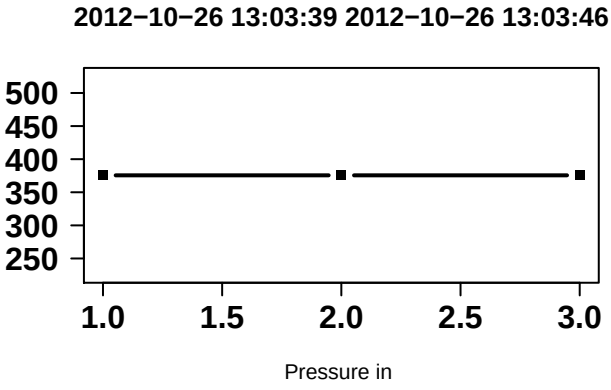

black 0.0029 red 0.034
Seawater potential density anomaly
Seawater density − 1000
27.5365
27.5360
27.5355
27.5350
27.5345
27.5340
32.185
32.170
32.155
1.0
1.5
2.0
2.5
3.0

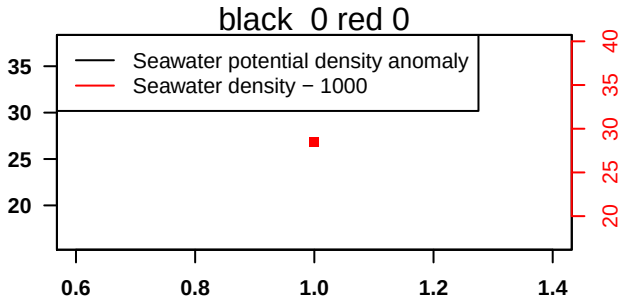

lovbio006b_002_00_06.txt
73.0
72.5
72.0
71.5
71.0
70.5
70.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

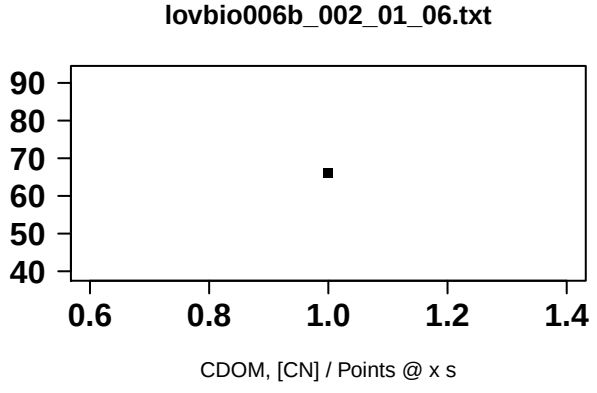

53.0
52.5
52.0
51.5
51.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

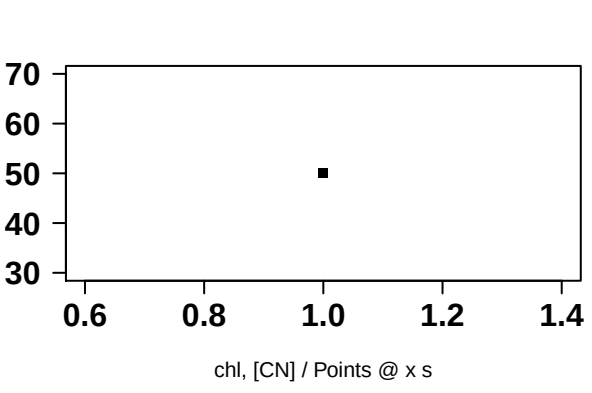

nb days: 0 freq: 0 min
92
91
90
89
88
87
86
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

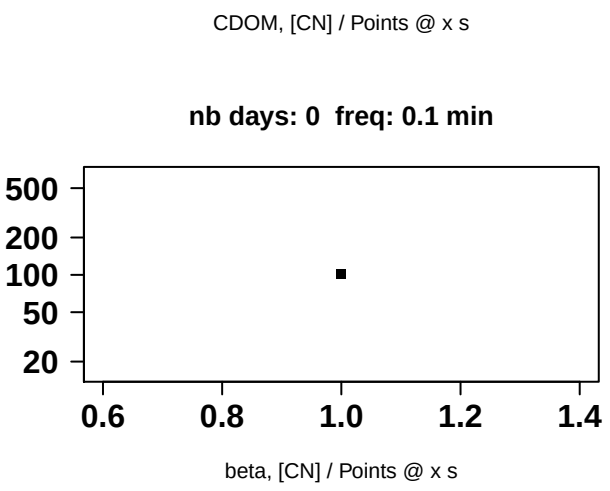

nb days: 0 freq: 0 min
0.10015
0.10010
0.10005
0.10000
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

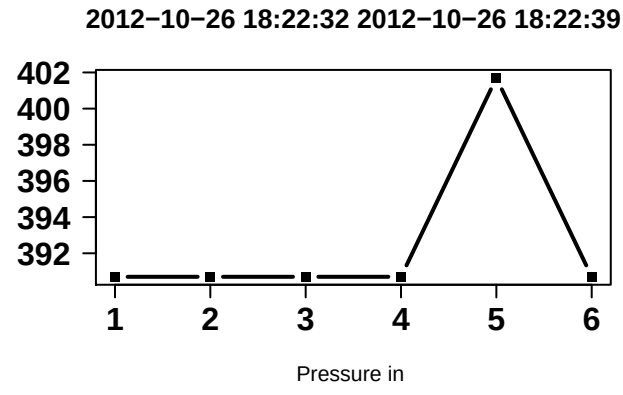

2012−10−26 13:03:39 2012−10−26 13:03:46
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

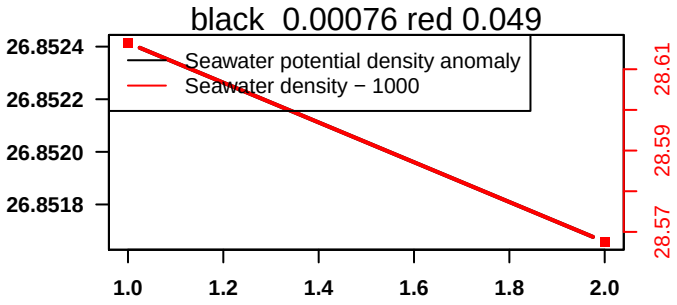

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

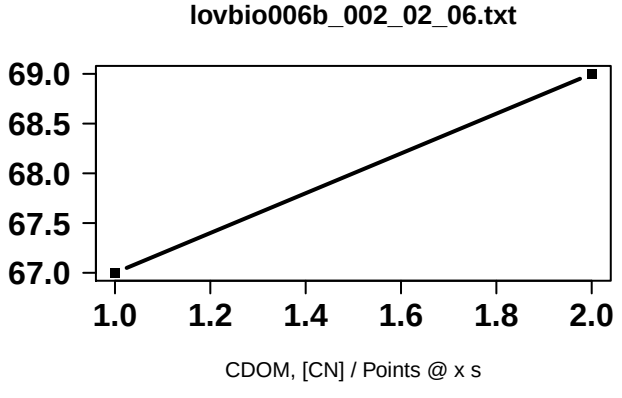

lovbio006b_002_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

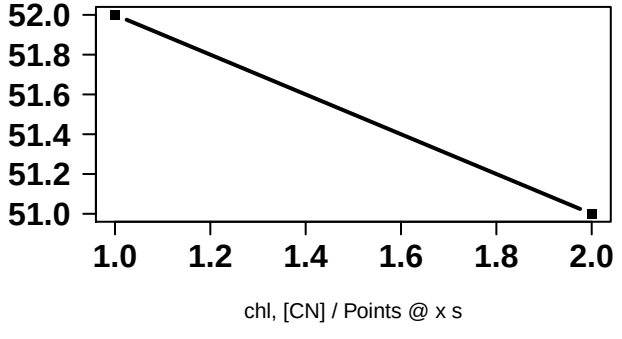

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

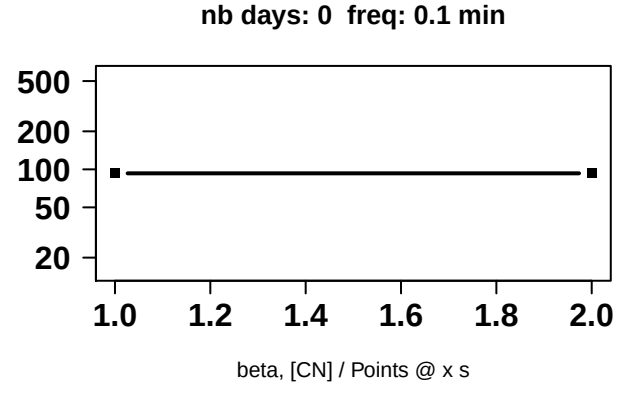

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

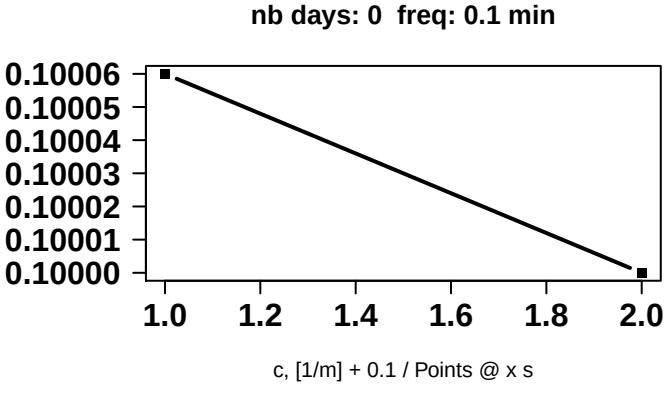

2012−10−26 18:22:32 2012−10−26 18:22:39
402
400
398
396
394
392
1
2
3
4
5
6
Pressure in

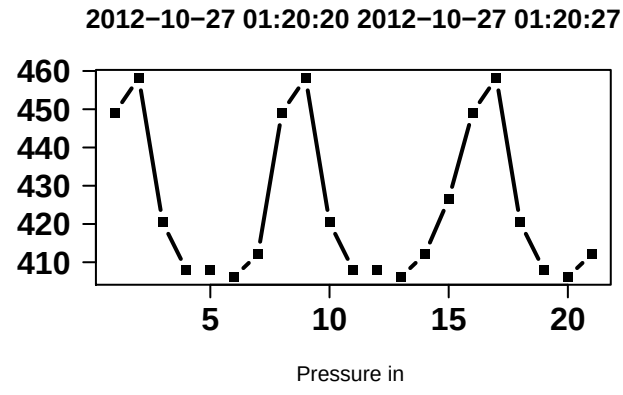

black 0.00076 red 0.049
26.8524
26.8522
26.8520
26.8518
Seawater potential density anomaly
Seawater density − 1000
28.61
28.59
28.57
1.0
1.2
1.4
1.6
1.8
2.0

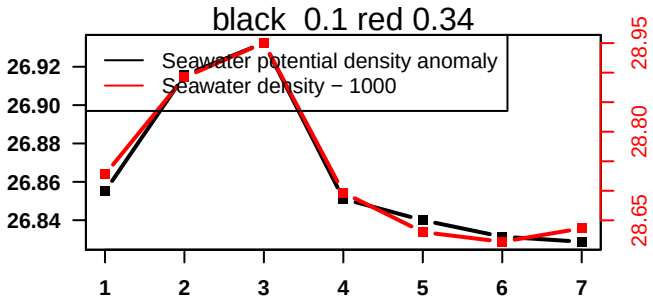

lovbio006b_002_02_06.txt
69.0
68.5
68.0
67.5
67.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

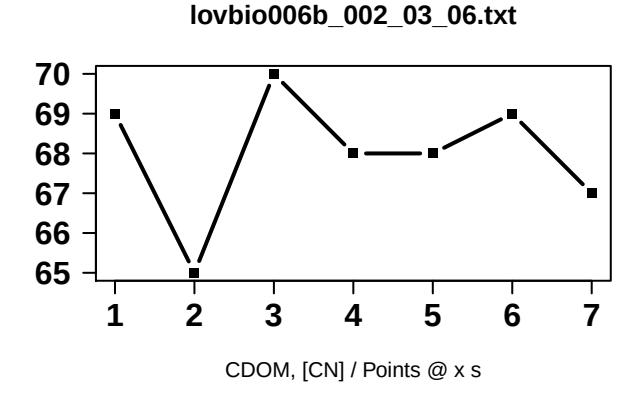

52.0
51.8
51.6
51.4
51.2
51.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

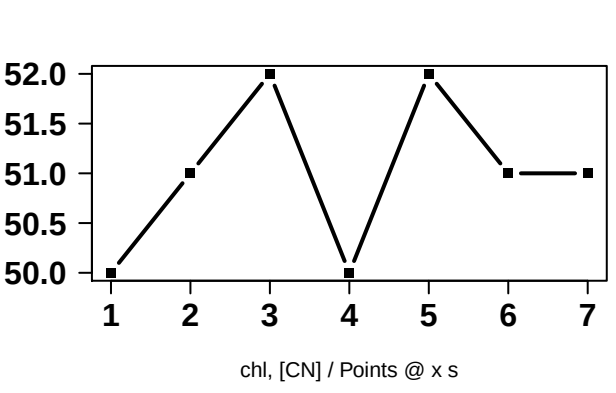

nb days: 0 freq: 0.1 min
500
200
100
50
20
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

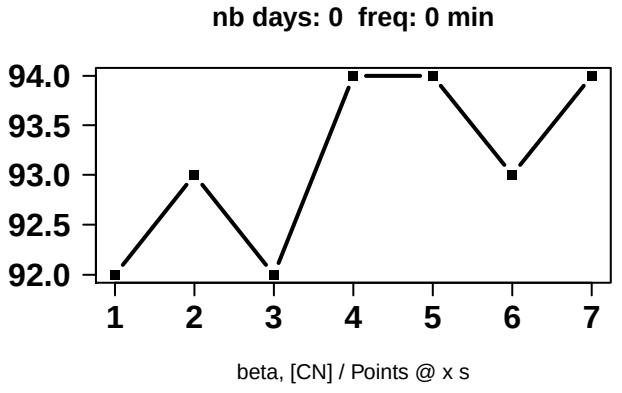

nb days: 0 freq: 0.1 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

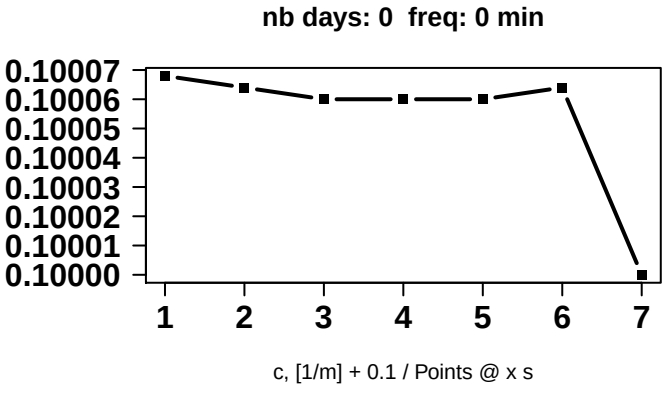

2012−10−27 01:20:20 2012−10−27 01:20:27
460
450
440
430
420
410
5
10
15
20
Pressure in

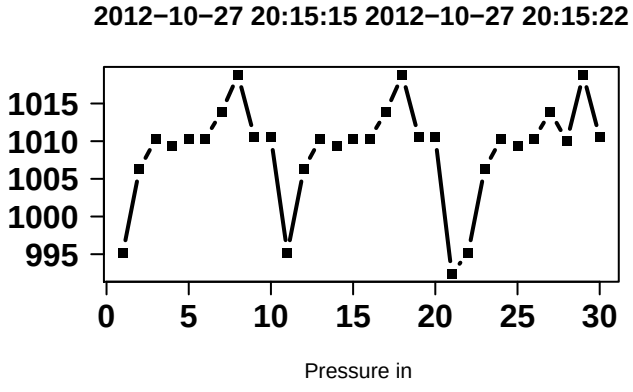

black 0.1 red 0.34
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
26.84
28.95
28.80
28.65
1
2
3
4
5
6
7

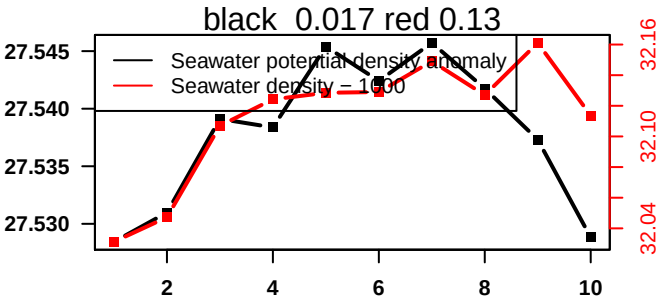

lovbio006b_002_03_06.txt
70
69
68
67
66
65
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

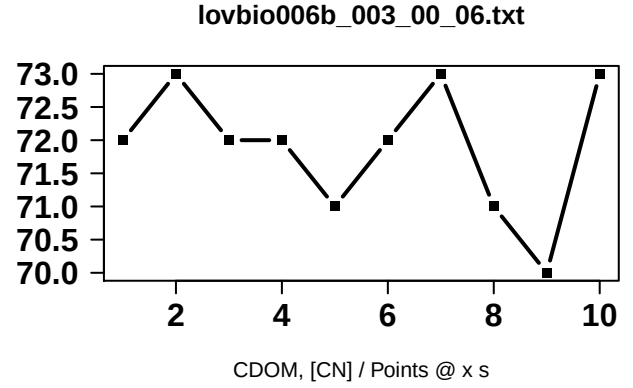

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

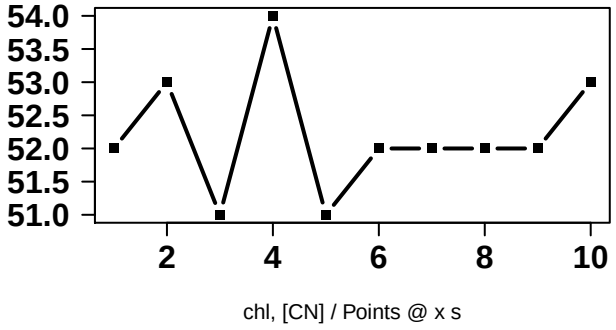

nb days: 0 freq: 0 min
94.0
93.5
93.0
92.5
92.0
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

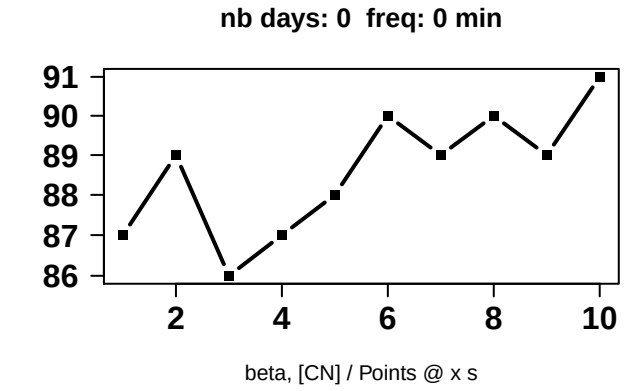

nb days: 0 freq: 0 min
0.10007
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

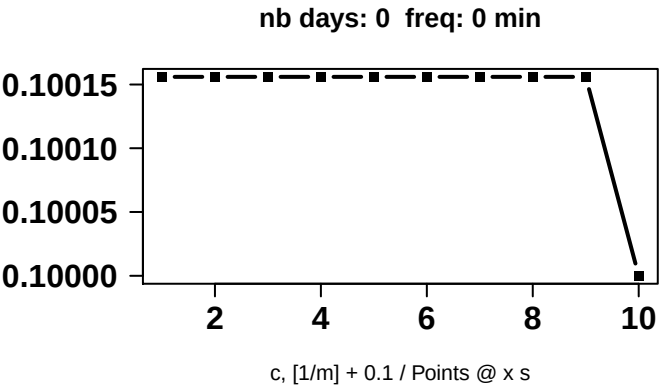

2012−10−27 20:15:15 2012−10−27 20:15:22
1015
1010
1005
1000
995
0
5
10
15
20
25
30
Pressure in

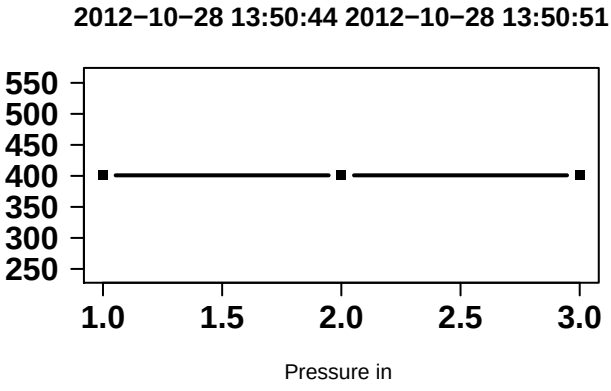

black 0.017 red 0.13
Seawater potential density anomaly
Seawater density − 1000
27.545
27.540
27.535
27.530
32.16
32.10
32.04
2
4
6
8
10

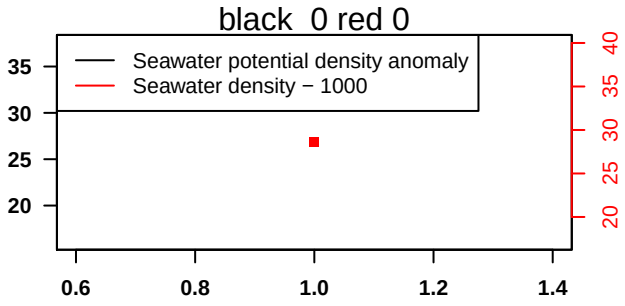

lovbio006b_003_00_06.txt
73.0
72.5
72.0
71.5
71.0
70.5
70.0
2
4
6
8
10
CDOM, [CN] / Points @ x s

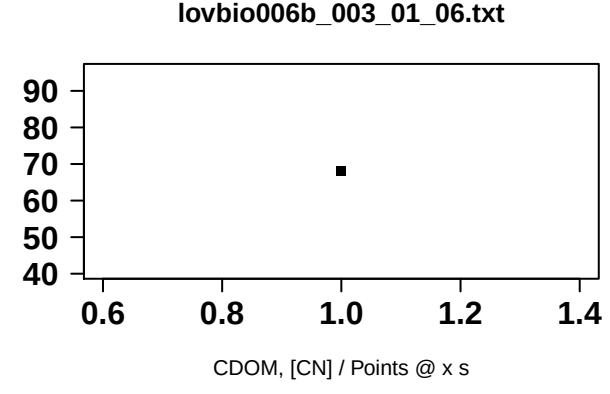

54.0
53.5
53.0
52.5
52.0
51.5
51.0
2
4
6
8
10
chl, [CN] / Points @ x s

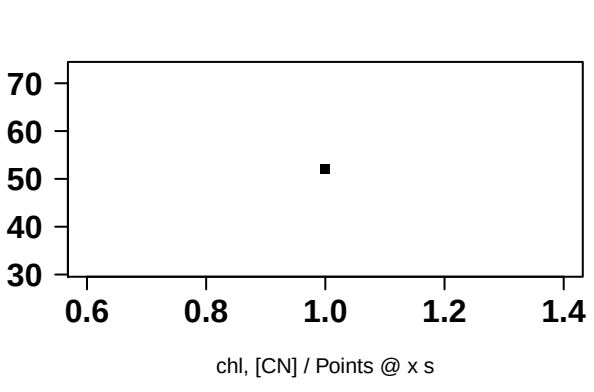

nb days: 0 freq: 0 min
91
90
89
88
87
86
2
4
6
8
10
beta, [CN] / Points @ x s

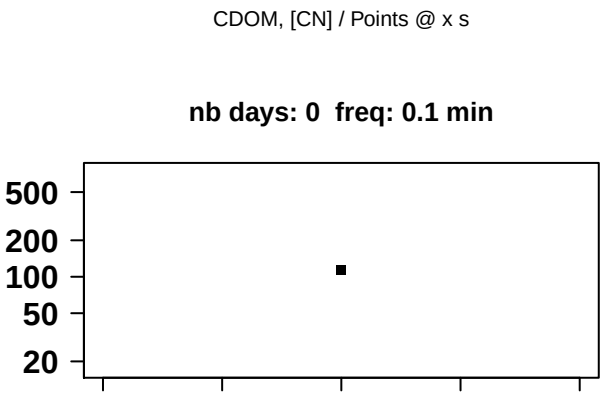

nb days: 0 freq: 0 min
0.10015
0.10010
0.10005
0.10000
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

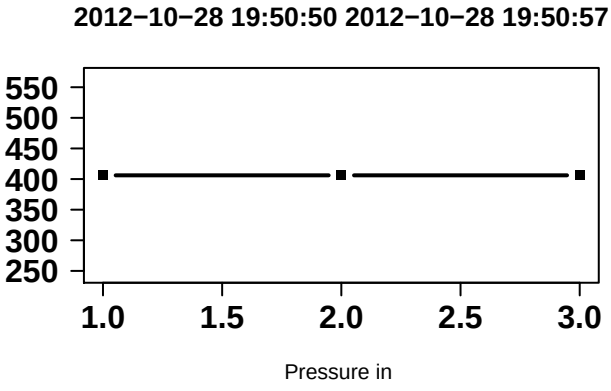

2012−10−28 13:50:44 2012−10−28 13:50:51
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

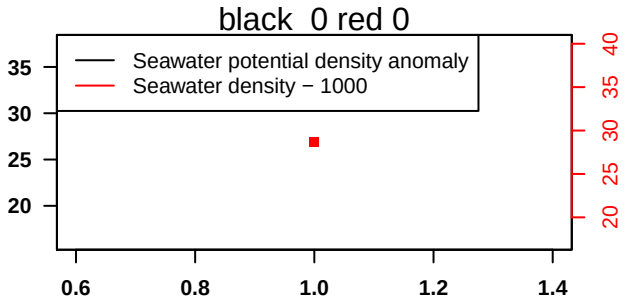

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

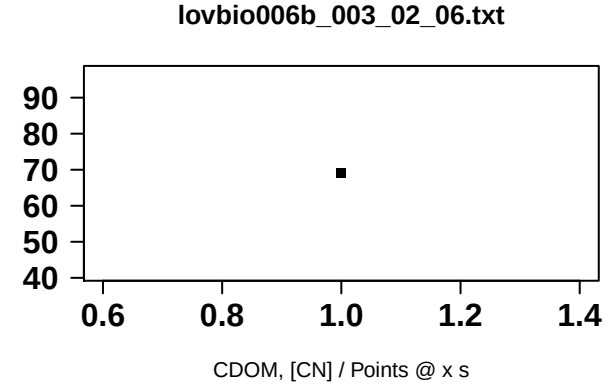

lovbio006b_003_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

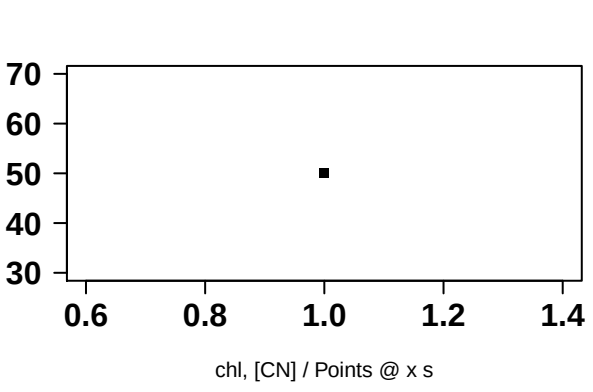

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

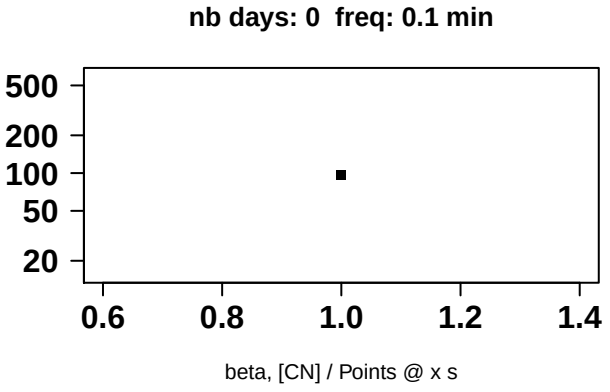

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

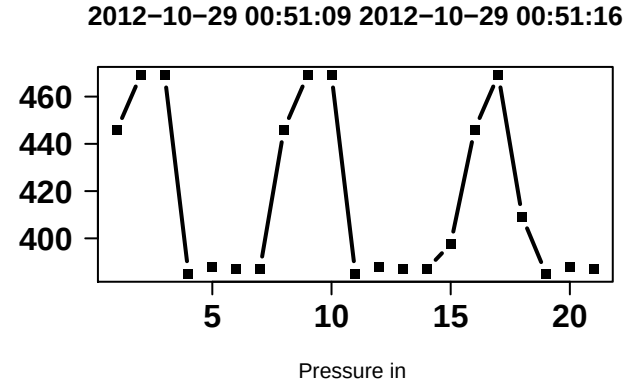

2012−10−28 19:50:50 2012−10−28 19:50:57
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

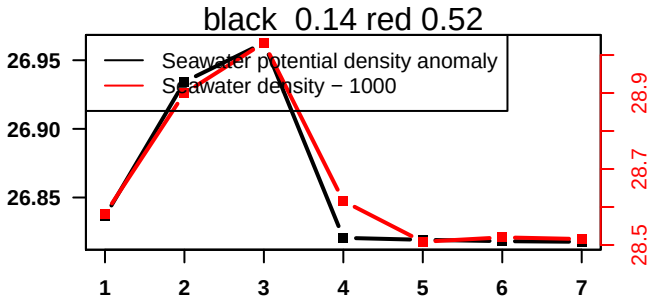

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

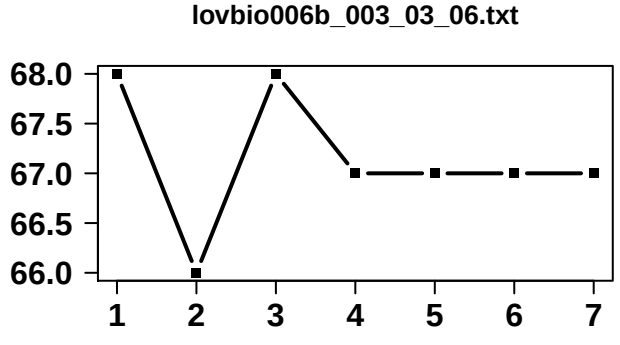

lovbio006b_003_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

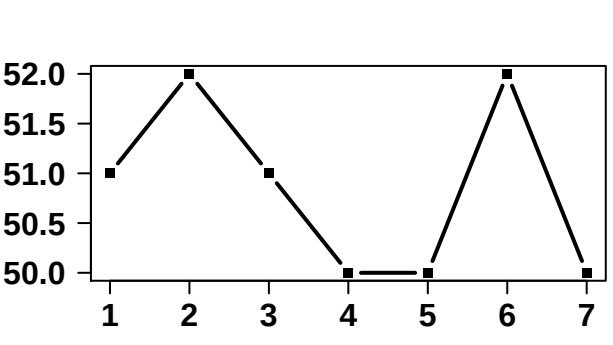

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

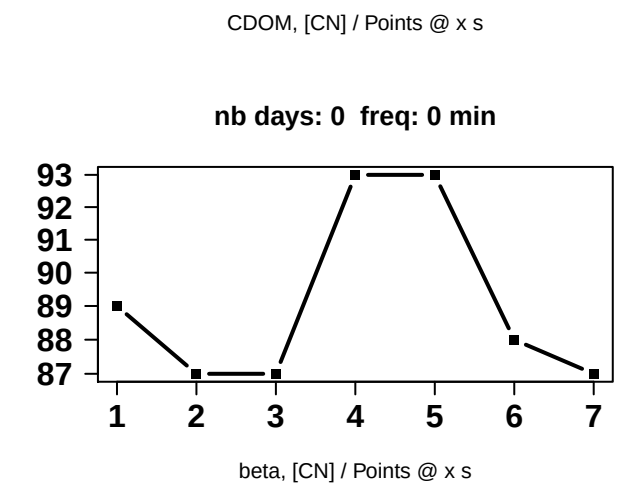

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

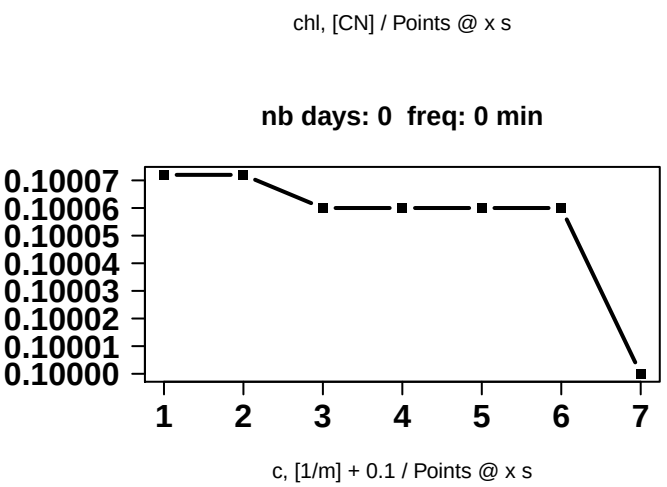

2012−10−29 00:51:09 2012−10−29 00:51:16
460
440
420
400
5
10
15
20
Pressure in

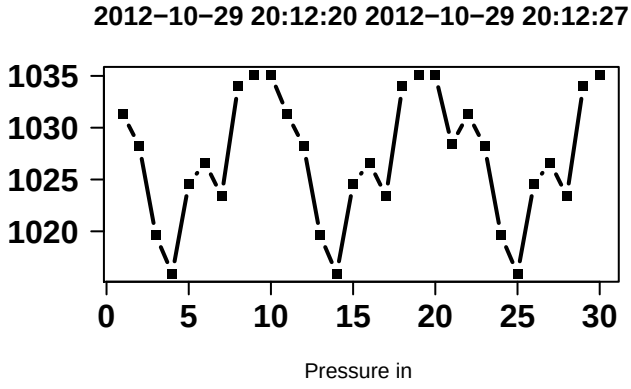

black 0.14 red 0.52
Seawater potential density anomaly
Seawater density − 1000
26.95
26.90
26.85
28.9
28.7
28.5
1
2
3
4
5
6
7

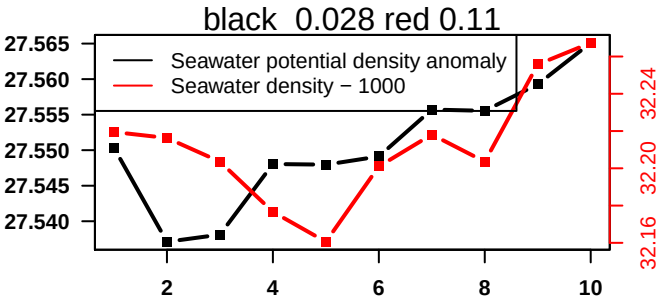

lovbio006b_003_03_06.txt
68.0
67.5
67.0
66.5
66.0
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

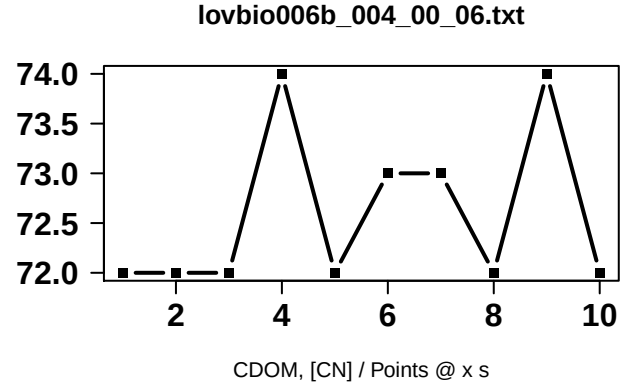

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

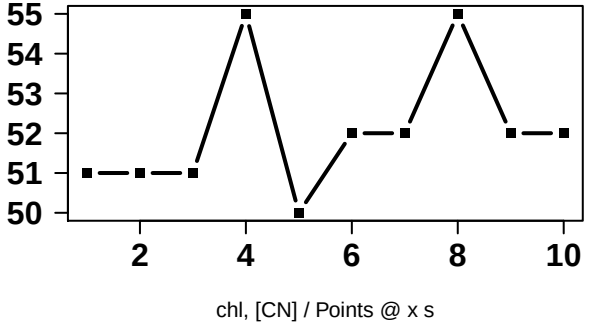

nb days: 0 freq: 0 min
93
92
91
90
89
88
87
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

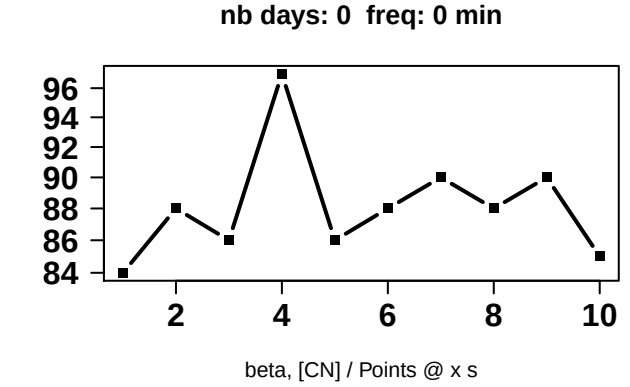

nb days: 0 freq: 0 min
0.10007
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

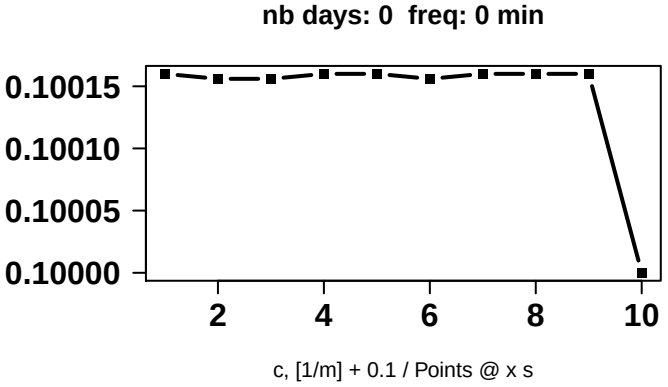

2012−10−29 20:12:20 2012−10−29 20:12:27
1035
1030
1025
1020
0
5
10
15
20
25
30
Pressure in

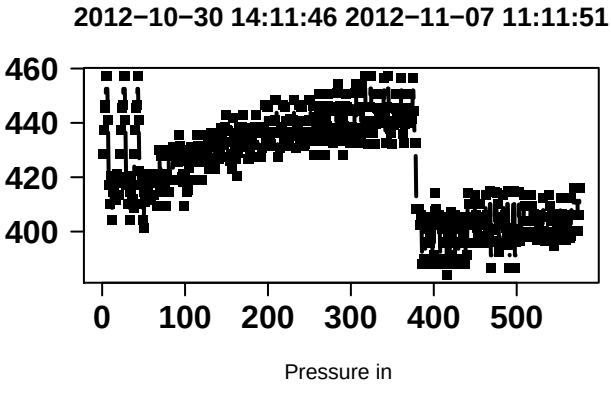

black 0.028 red 0.11
Seawater potential density anomaly
Seawater density − 1000
27.565
27.560
27.555
27.550
27.545
27.540
32.24
32.20
32.16
2
4
6
8
10

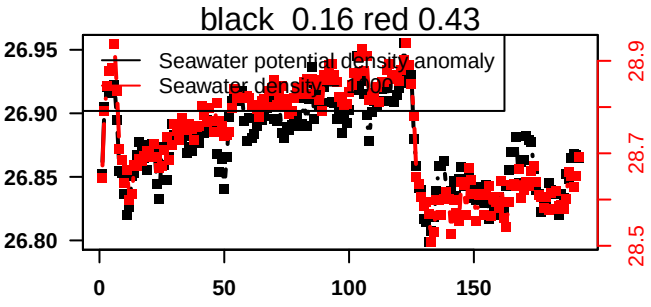

lovbio006b_004_00_06.txt
74.0
73.5
73.0
72.5
72.0
2
4
6
8
10
CDOM, [CN] / Points @ x s

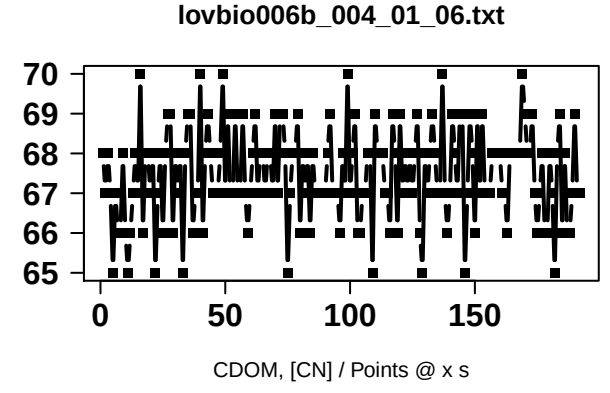

55
54
53
52
51
50
2
4
6
8
10
chl, [CN] / Points @ x s

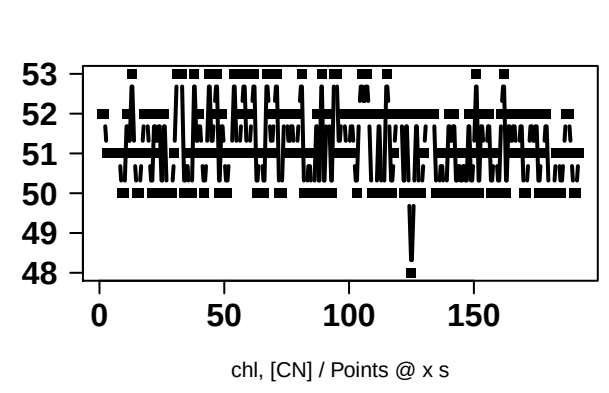

nb days: 0 freq: 0 min
96
94
92
90
88
86
84
2
4
6
8
10
beta, [CN] / Points @ x s

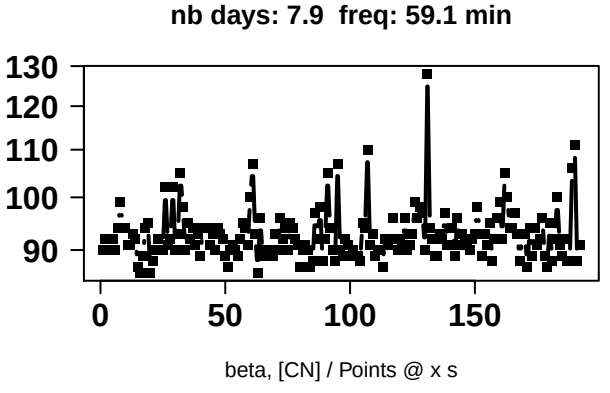

nb days: 0 freq: 0 min
0.10015
0.10010
0.10005
0.10000
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

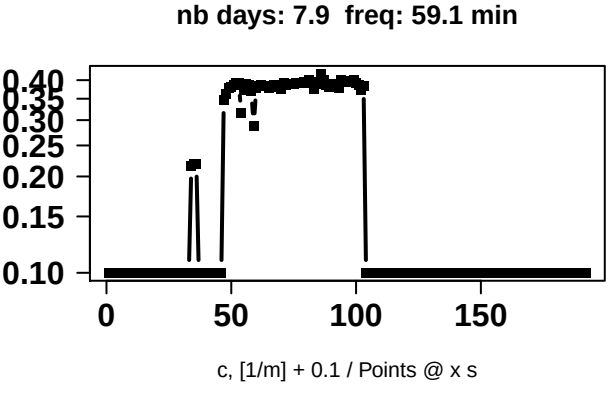

2012−10−30 14:11:46 2012−11−07 11:11:51
460
440
420
400
0
100
200
300
400
500
Pressure in

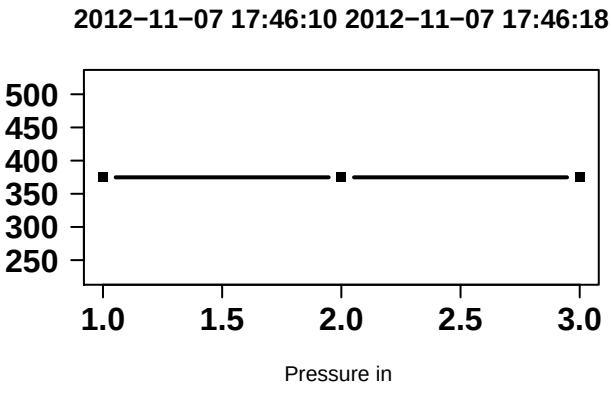

black 0.16 red 0.43
Seawater potential density anomaly
Seawater density − 1000
26.95
26.90
26.85
26.80
28.9
28.7
28.5
0
50
100
150

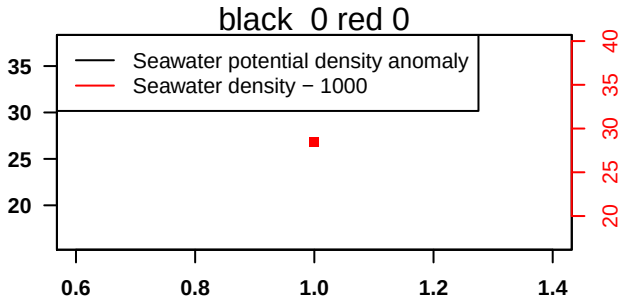

lovbio006b_004_01_06.txt
70
69
68
67
66
65
0
50
100
150
CDOM, [CN] / Points @ x s

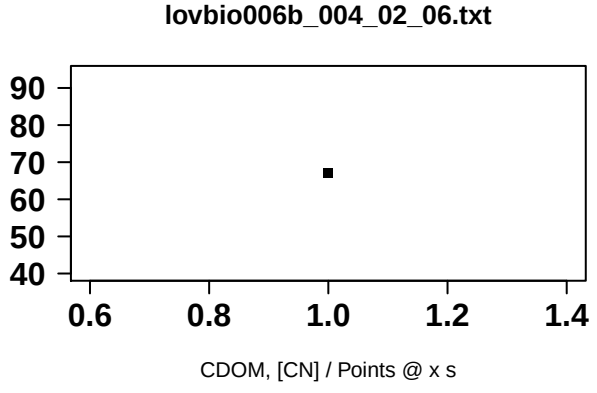

53
52
51
50
49
48
0
50
100
150
chl, [CN] / Points @ x s

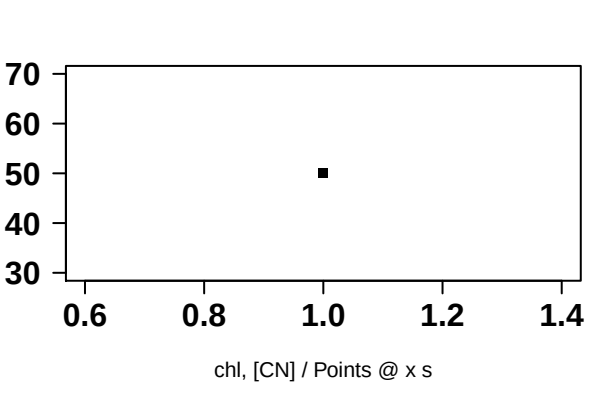

nb days: 7.9 freq: 59.1 min
130
120
110
100
90
0
50
100
150
beta, [CN] / Points @ x s

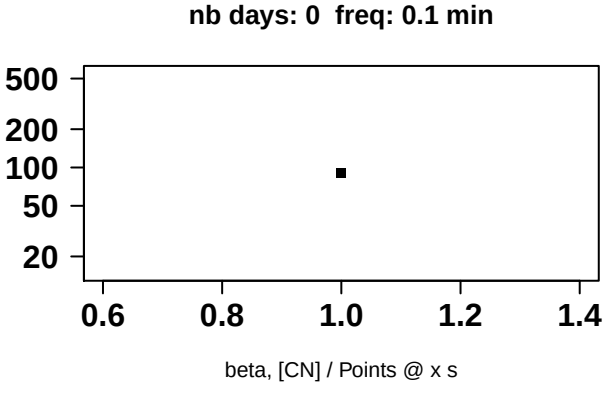

nb days: 7.9 freq: 59.1 min
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0
50
100
150
c, [1/m] + 0.1 / Points @ x s

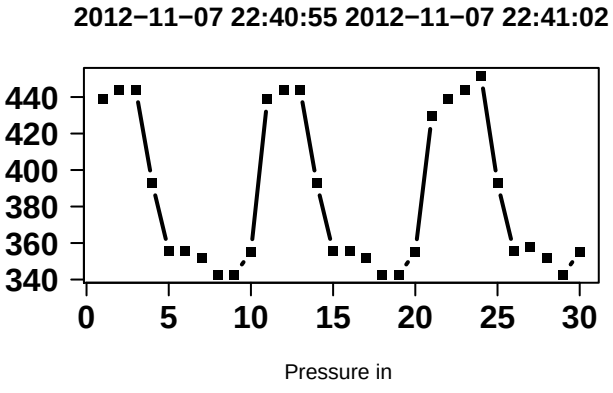

2012−11−07 17:46:10 2012−11−07 17:46:18
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

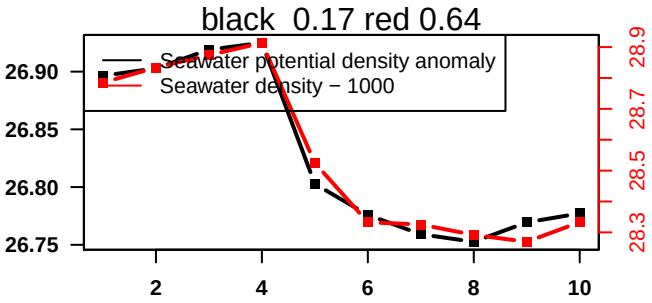

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

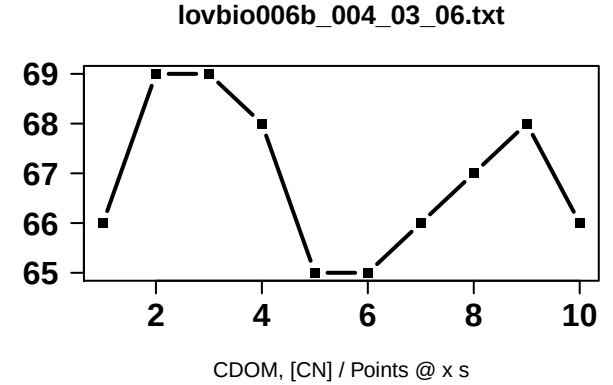

lovbio006b_004_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

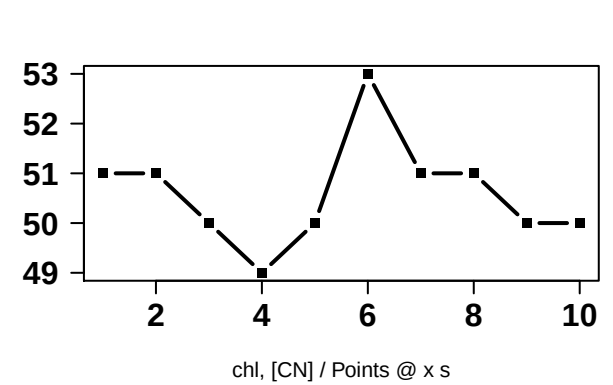

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

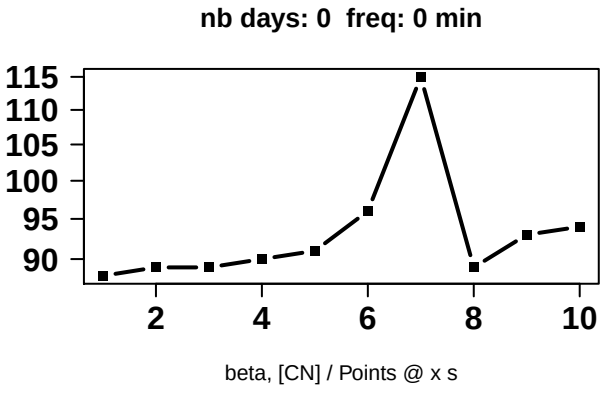

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

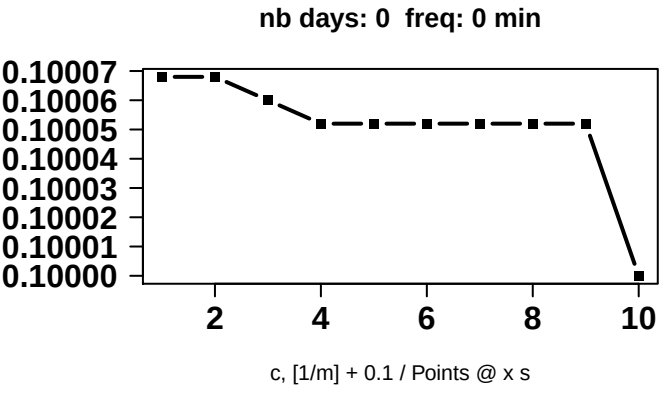

2012−11−07 22:40:55 2012−11−07 22:41:02
440
420
400
380
360
340
0
5
10
15
20
25
30
Pressure in

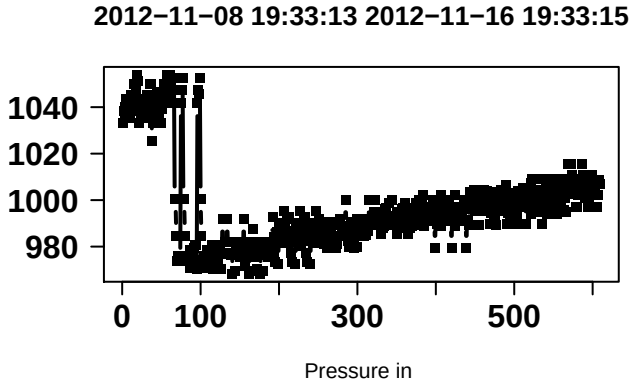

black 0.17 red 0.64
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
26.75
28.9
28.7
28.5
28.3
2
4
6
8
10

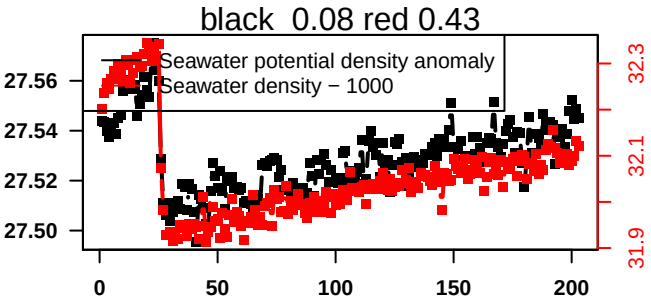

lovbio006b_004_03_06.txt
69
68
67
66
65
2
4
6
8
10
CDOM, [CN] / Points @ x s

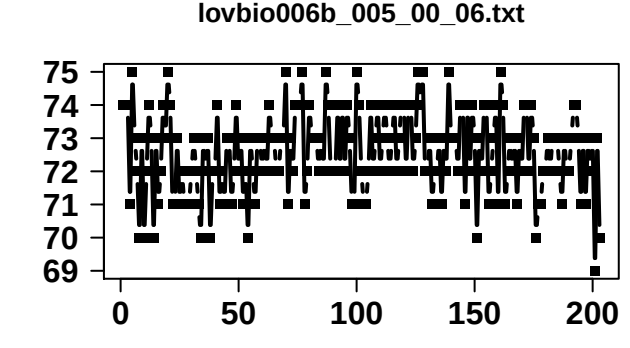

53
52
51
50
49
2
4
6
8
10
chl, [CN] / Points @ x s

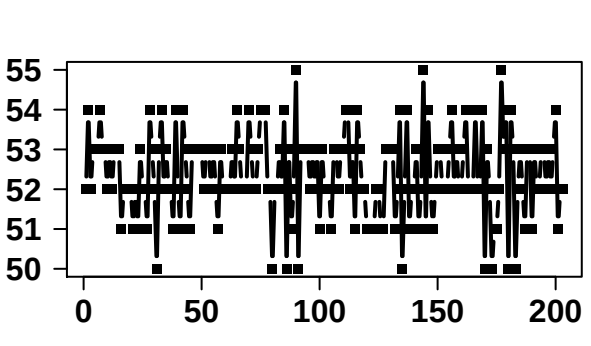

nb days: 0 freq: 0 min
115
110
105
100
95
90
2
4
6
8
10
beta, [CN] / Points @ x s

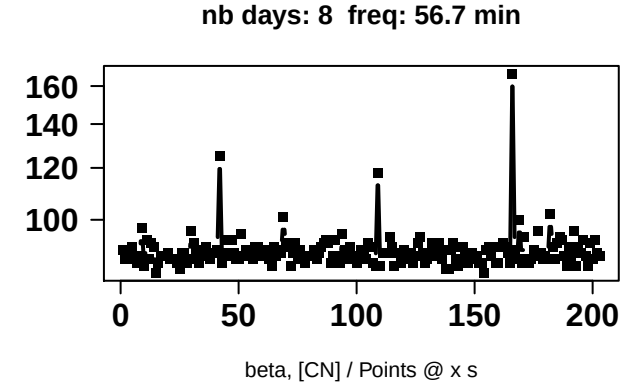

nb days: 0 freq: 0 min
0.10007
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

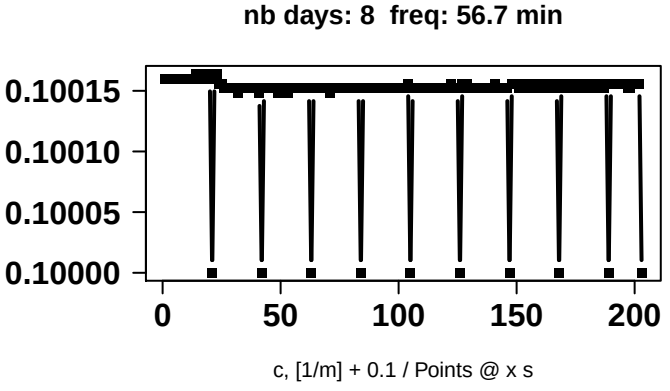

2012−11−08 19:33:13 2012−11−16 19:33:15
1040
1020
1000
980
0
100
300
500
Pressure in

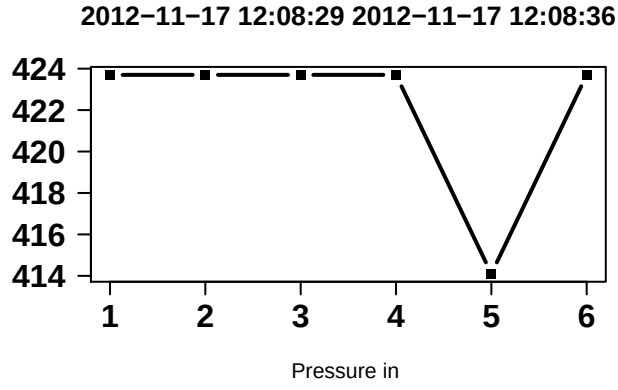

black 0.08 red 0.43
Seawater potential density anomaly
Seawater density − 1000
27.56
27.54
27.52
27.50
32.3
32.1
31.9
0
50
100
150
200

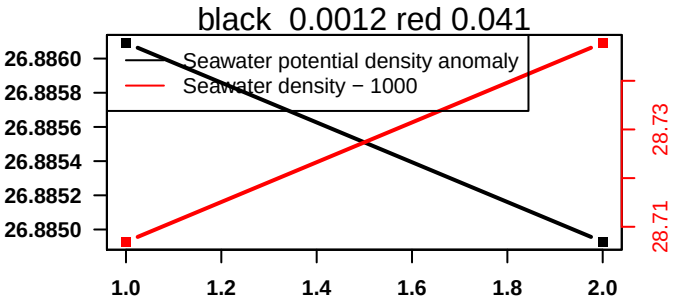

lovbio006b_005_00_06.txt
75
74
73
72
71
70
69
0
50
100
150
200
CDOM, [CN] / Points @ x s

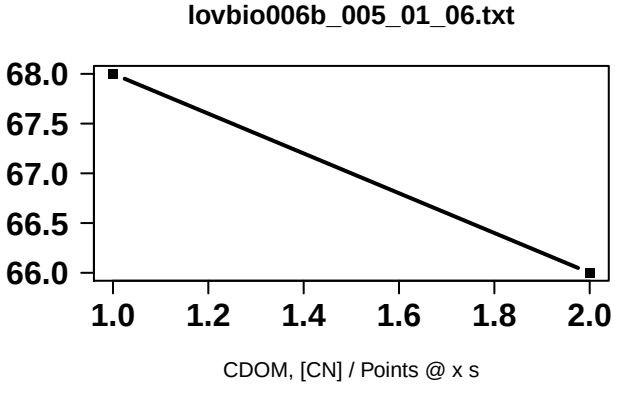

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

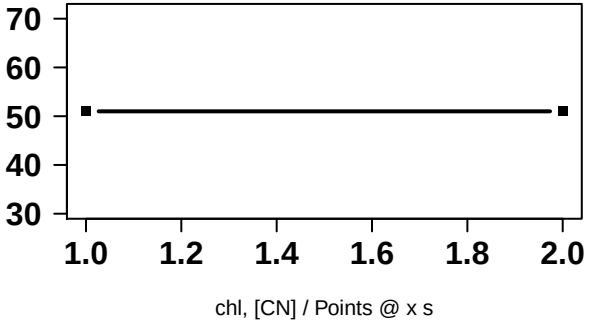

nb days: 8 freq: 56.7 min
160
140
120
100
0
50
100
150
200
beta, [CN] / Points @ x s

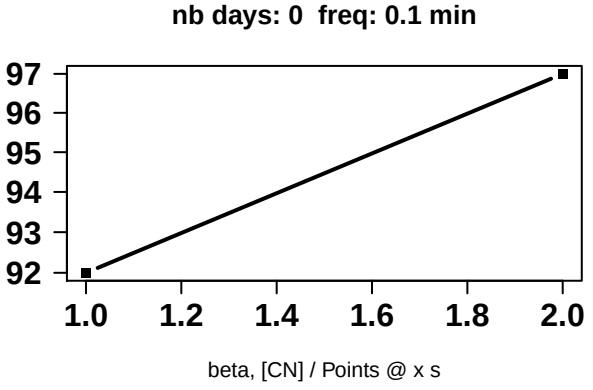

nb days: 8 freq: 56.7 min
0.10015
0.10010
0.10005
0.10000
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

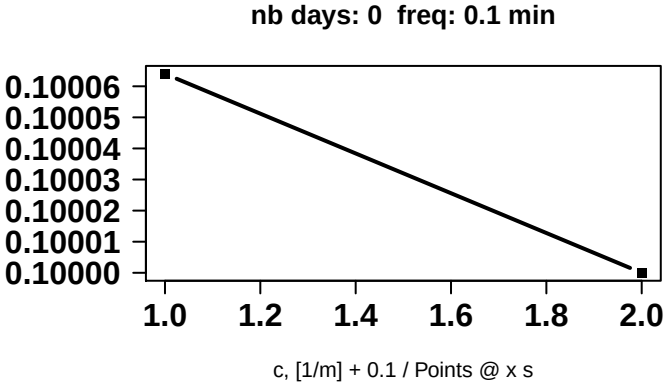

2012−11−17 12:08:29 2012−11−17 12:08:36
424
422
420
418
416
414
1
2
3
4
5
6
Pressure in

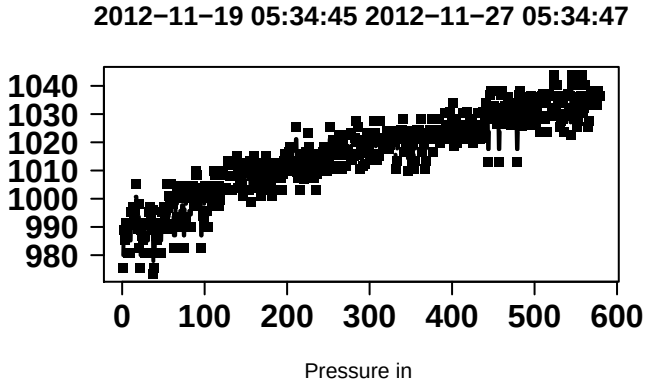

black 0.0012 red 0.041
Seawater potential density anomaly
Seawater density − 1000
26.8860
26.8858
26.8856
26.8854
26.8852
26.8850
28.73
28.71
1.0
1.2
1.4
1.6
1.8
2.0

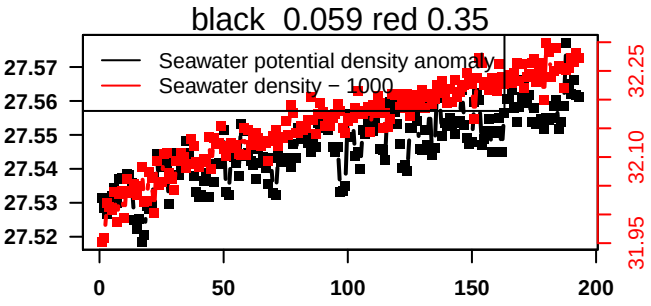

lovbio006b_005_01_06.txt
68.0
67.5
67.0
66.5
66.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

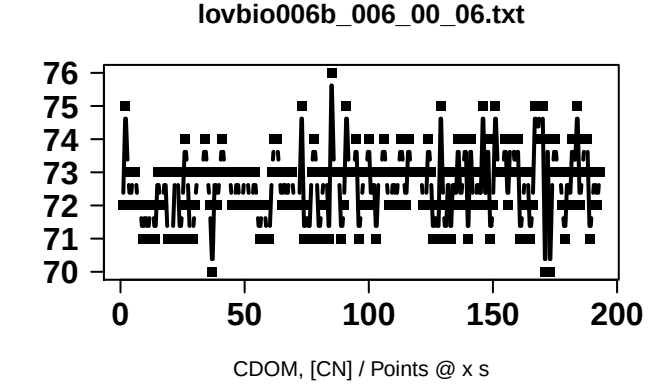

70
60
50
40
30
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

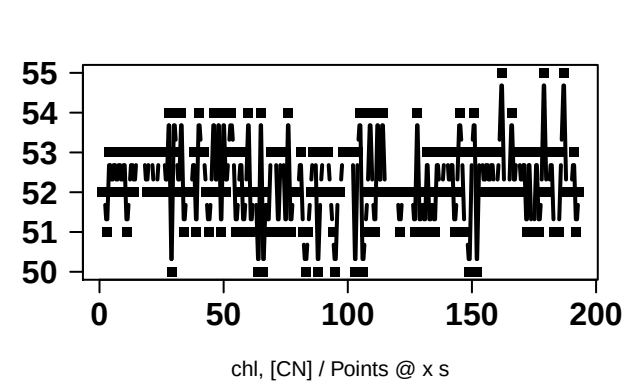

nb days: 0 freq: 0.1 min
97
96
95
94
93
92
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

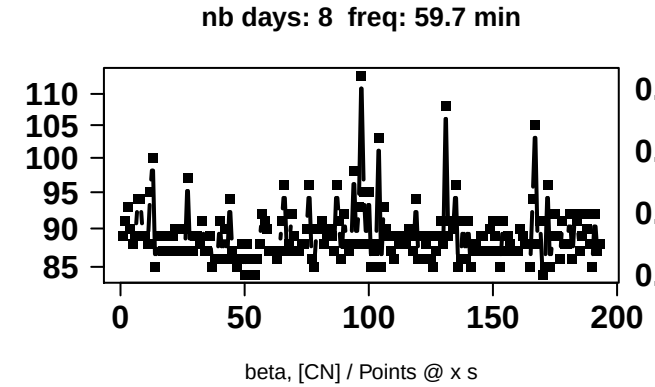

nb days: 0 freq: 0.1 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

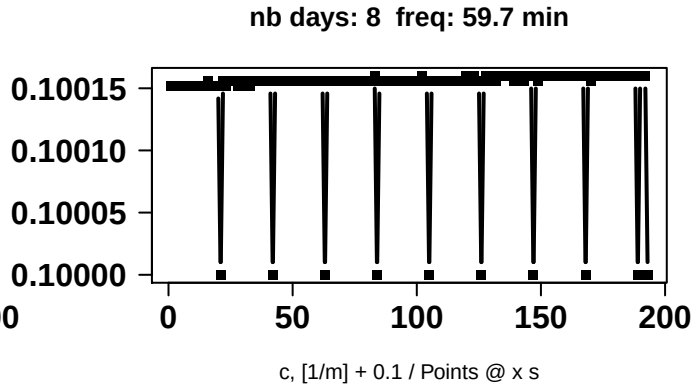

2012−11−19 05:34:45 2012−11−27 05:34:47
1040
1030
1020
1010
1000
990
980
0
100
200
300
400
500
600
Pressure in

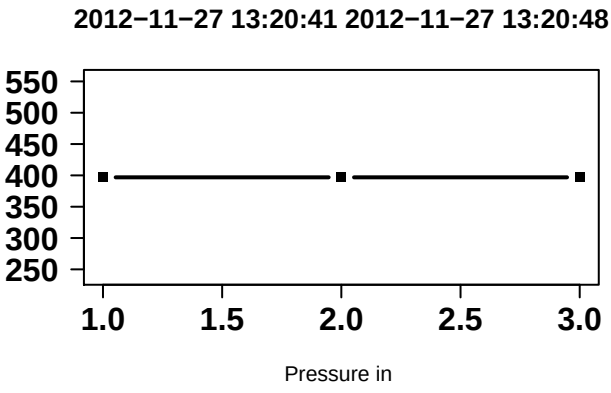

black 0.059 red 0.35
Seawater potential density anomaly
Seawater density − 1000
27.57
27.56
27.55
27.54
27.53
27.52
32.25
32.10
31.95
0
50
100
150
200

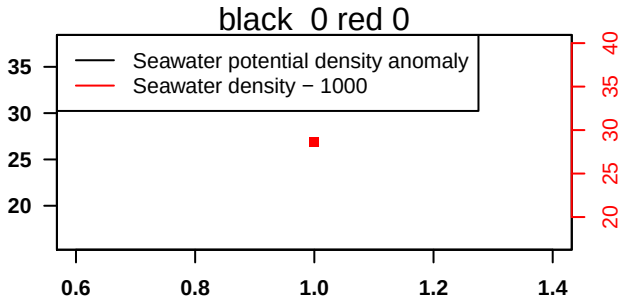

lovbio006b_006_00_06.txt
76
75
74
73
72
71
70
0
50
100
150
200
CDOM, [CN] / Points @ x s

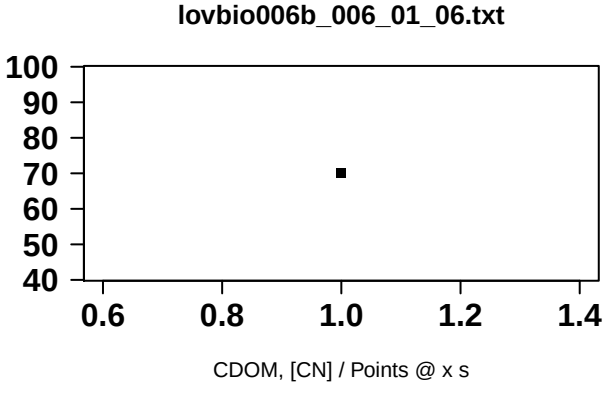

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

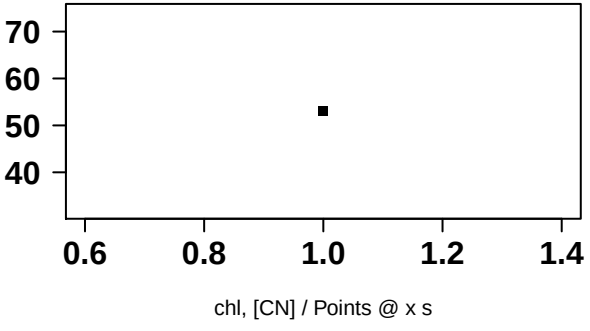

nb days: 8 freq: 59.7 min
110
105
100
95
90
85
0
50
100
150
200
beta, [CN] / Points @ x s

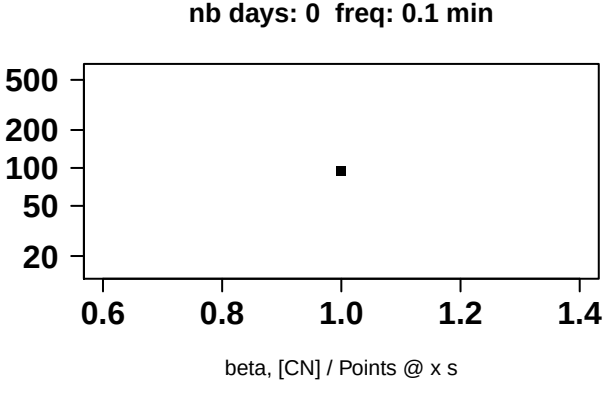

nb days: 8 freq: 59.7 min
0.10015
0.10010
0.10005
0.10000
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

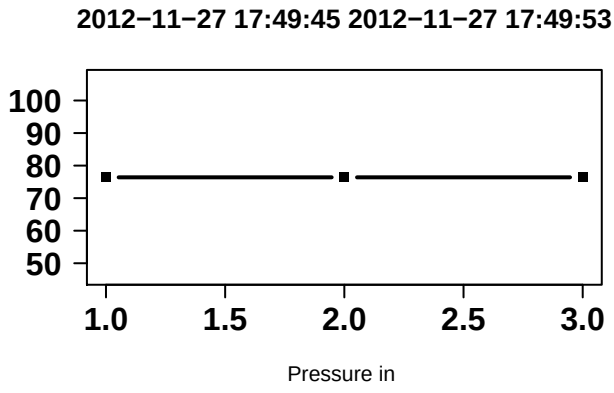

2012−11−27 13:20:41 2012−11−27 13:20:48
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

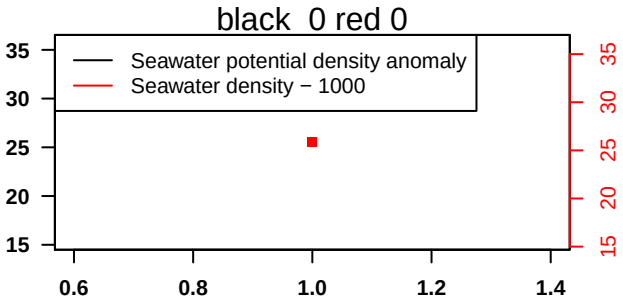

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

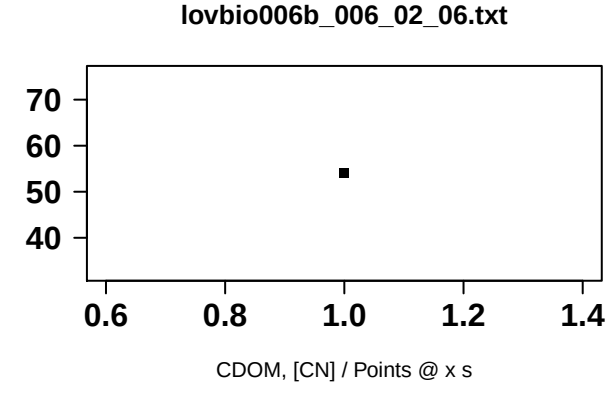

lovbio006b_006_01_06.txt
100
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

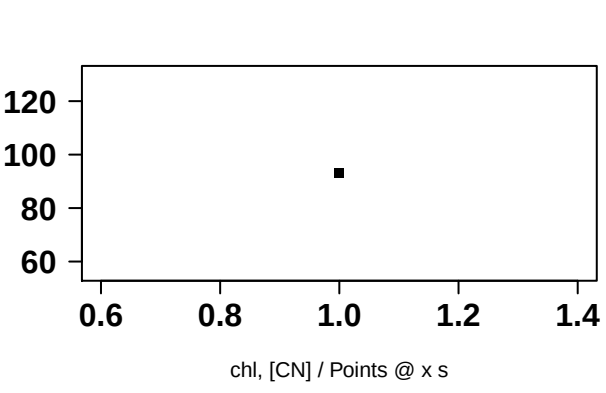

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

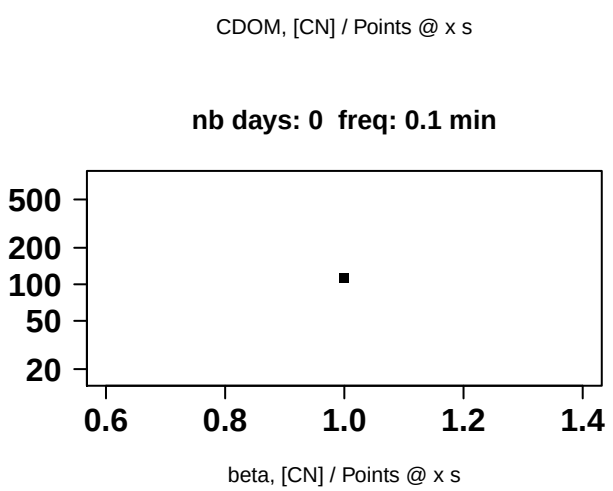

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

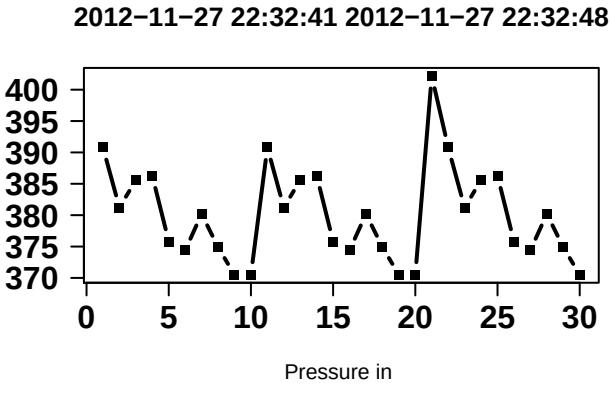

2012−11−27 17:49:45 2012−11−27 17:49:53
100
90
80
70
60
50
1.0
1.5
2.0
2.5
3.0
Pressure in

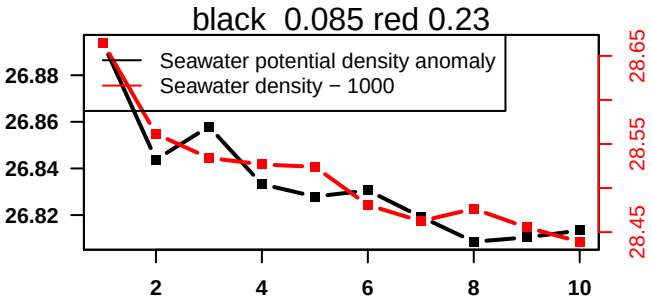

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
15
0.6
0.8
1.0
1.2
1.4

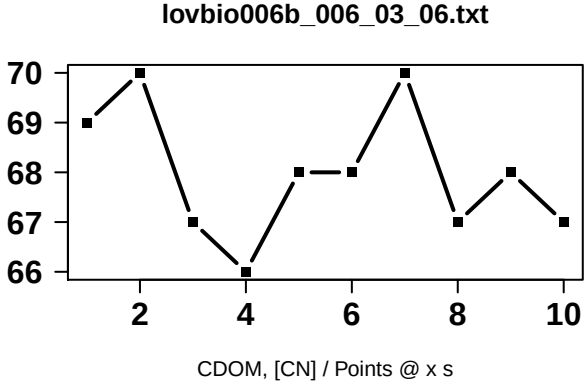

lovbio006b_006_02_06.txt
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

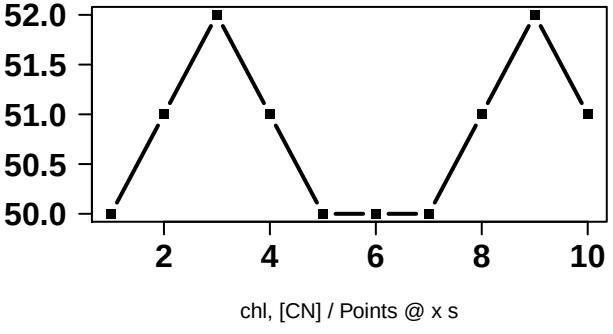

120
100
80
60
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

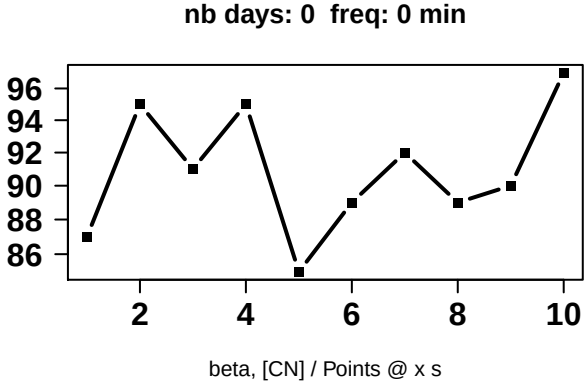

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

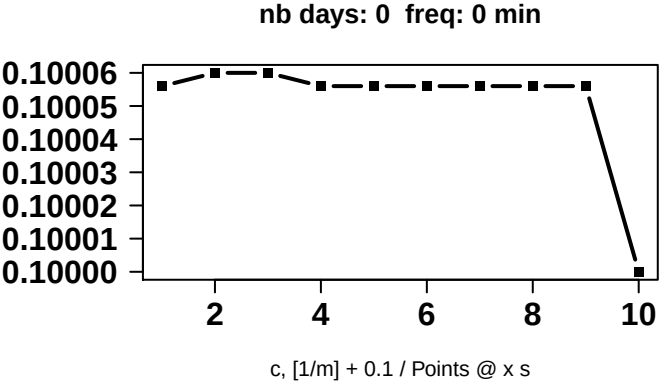

2012−11−27 22:32:41 2012−11−27 22:32:48
400
395
390
385
380
375
370
0
5
10
15
20
25
30
Pressure in

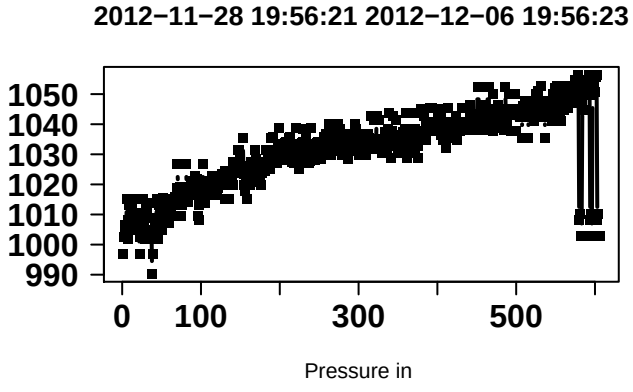

black 0.085 red 0.23
Seawater potential density anomaly
Seawater density − 1000
26.88
26.86
26.84
26.82
28.65
28.55
28.45
2
4
6
8
10

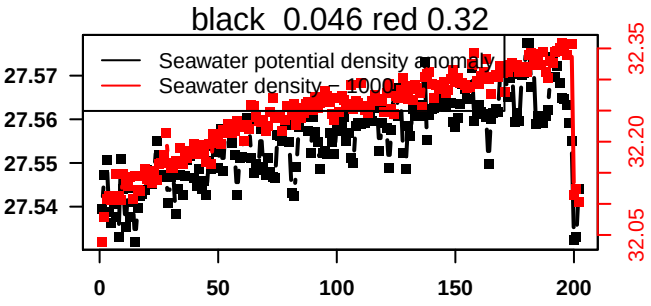

lovbio006b_006_03_06.txt
70
69
68
67
66
2
4
6
8
10
CDOM, [CN] / Points @ x s

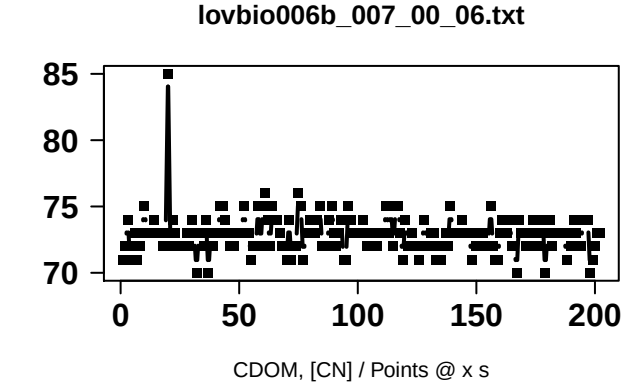

52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

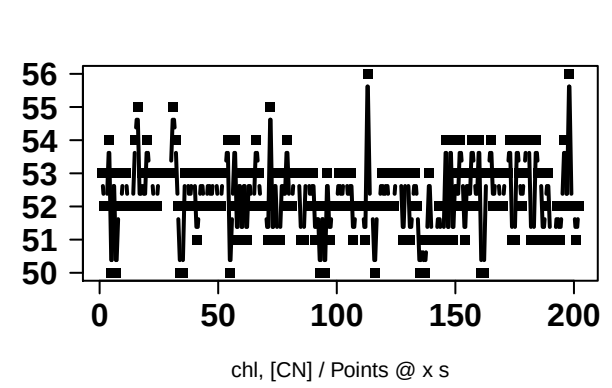

nb days: 0 freq: 0 min
96
94
92
90
88
86
2
4
6
8
10
beta, [CN] / Points @ x s

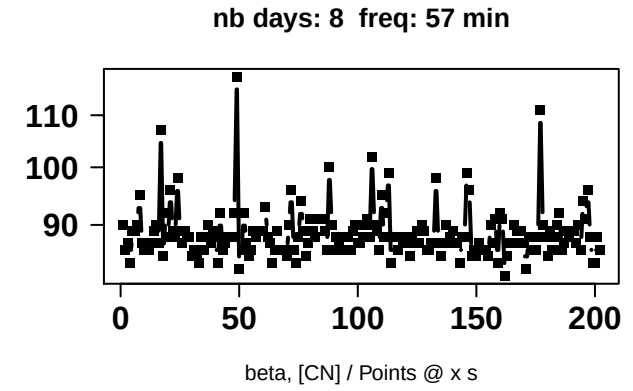

nb days: 0 freq: 0 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

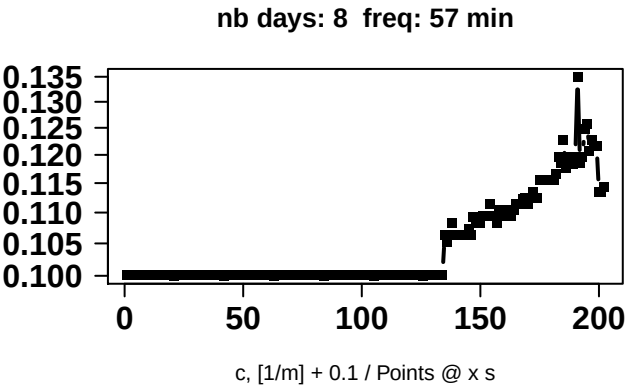

2012−11−28 19:56:21 2012−12−06 19:56:23
1050
1040
1030
1020
1010
1000
990
0
100
300
500
Pressure in

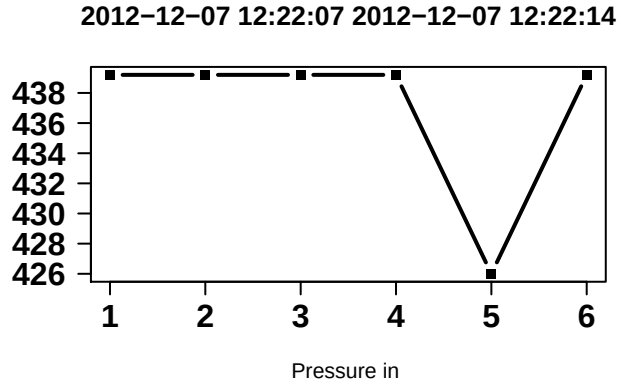

black 0.046 red 0.32
Seawater potential density anomaly
Seawater density − 1000
27.57
27.56
27.55
27.54
32.35
32.20
32.05
0
50
100
150
200

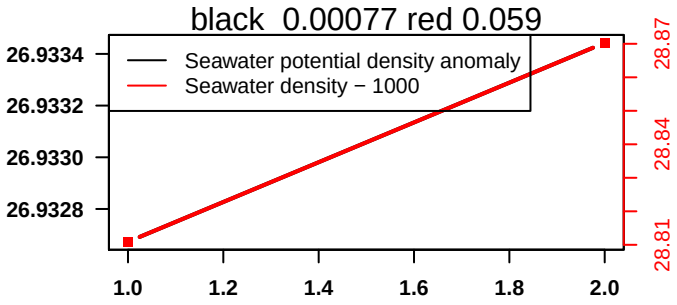

lovbio006b_007_00_06.txt
85
80
75
70
0
50
100
150
200
CDOM, [CN] / Points @ x s

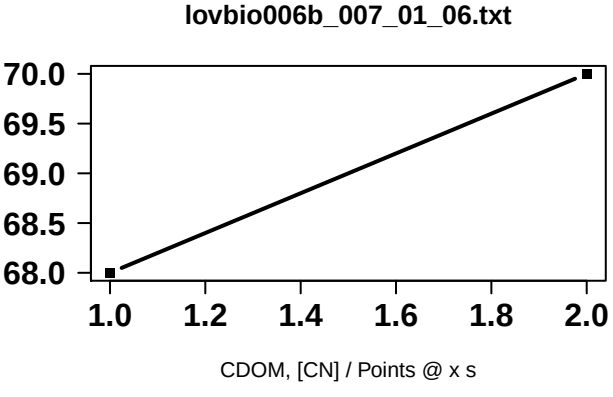

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

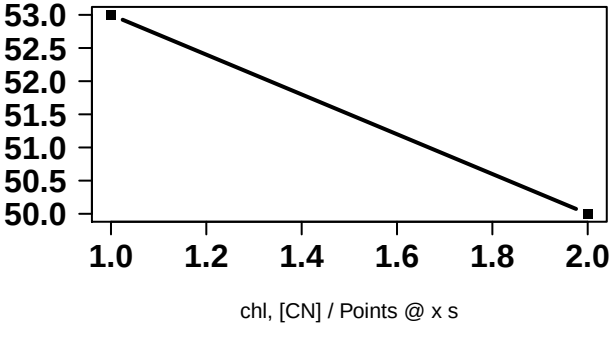

nb days: 8 freq: 57 min
110
100
90
0
50
100
150
200
beta, [CN] / Points @ x s

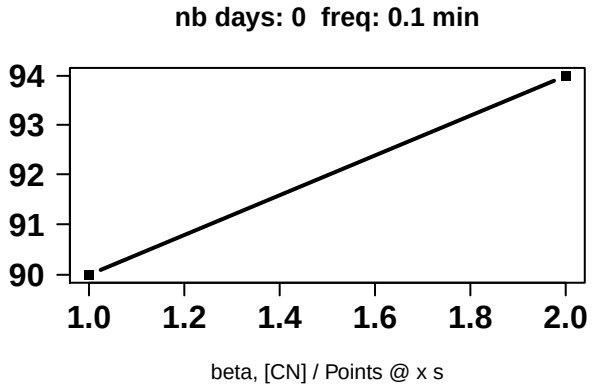

nb days: 8 freq: 57 min
0.135
0.130
0.125
0.120
0.115
0.110
0.105
0.100
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

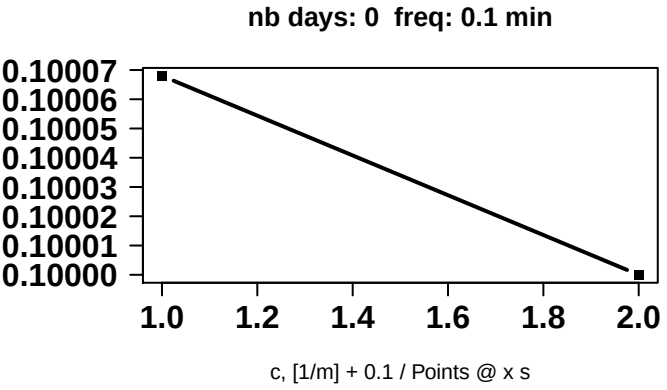

2012−12−07 12:22:07 2012−12−07 12:22:14
438
436
434
432
430
428
426
1
2
3
4
5
6
Pressure in

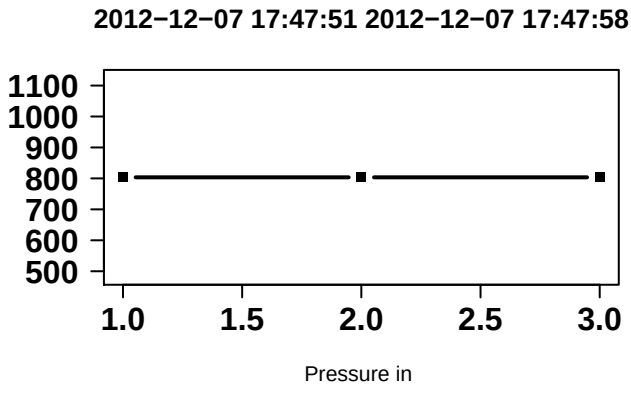

black 0.00077 red 0.059
Seawater potential density anomaly
Seawater density − 1000
26.9334
26.9332
26.9330
26.9328
28.87
28.84
28.81
1.0
1.2
1.4
1.6
1.8
2.0

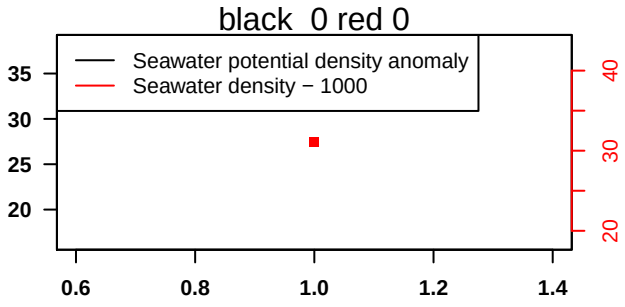

lovbio006b_007_01_06.txt
70.0
69.5
69.0
68.5
68.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

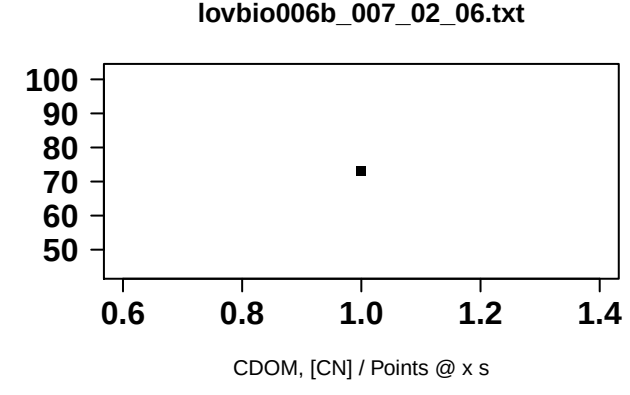

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

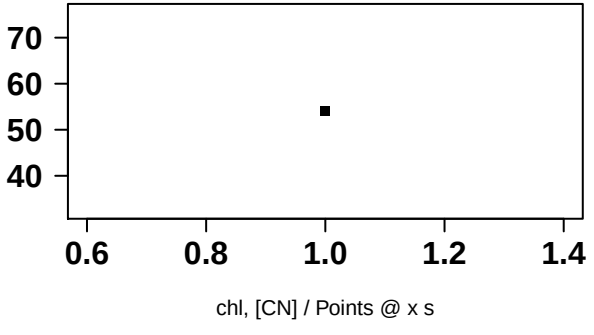

nb days: 0 freq: 0.1 min
94
93
92
91
90
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

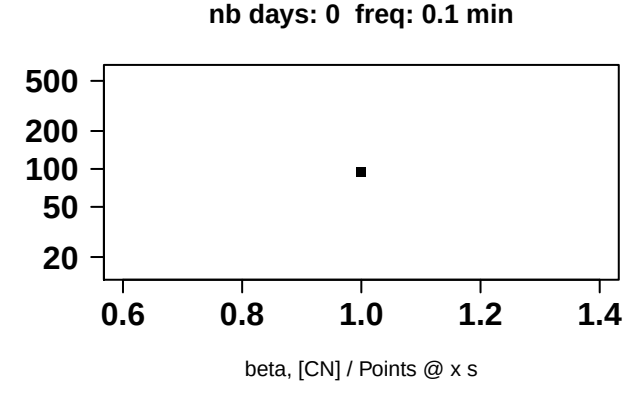

nb days: 0 freq: 0.1 min
0.10007
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

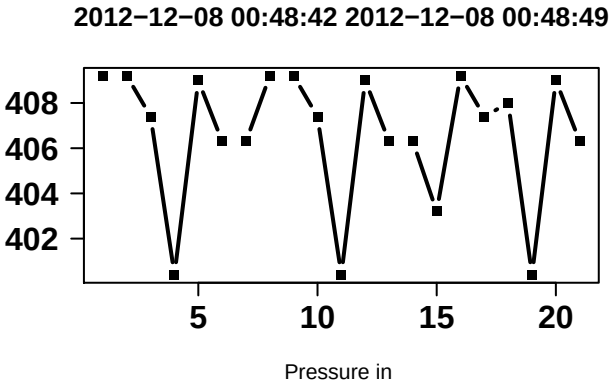

2012−12−07 17:47:51 2012−12−07 17:47:58
1100
1000
900
800
700
600
500
1.0
1.5
2.0
2.5
3.0
Pressure in

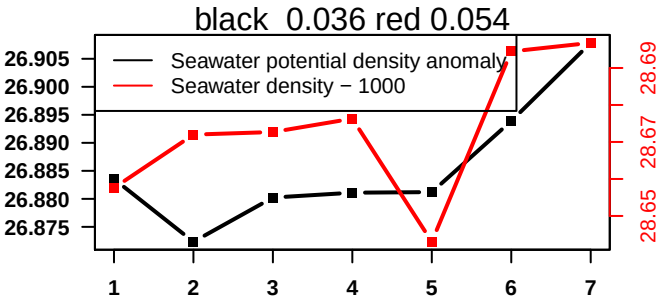

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

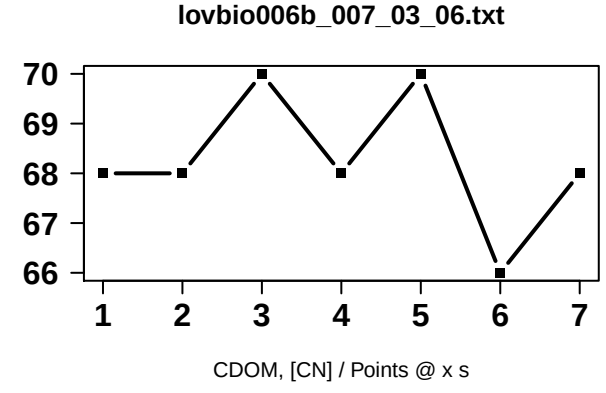

lovbio006b_007_02_06.txt
100
90
80
70
60
50
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

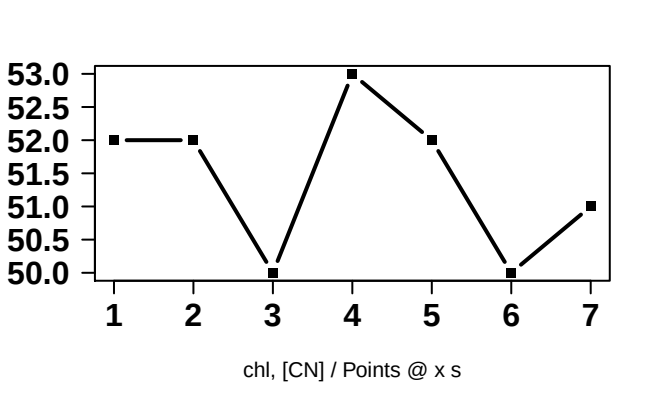

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

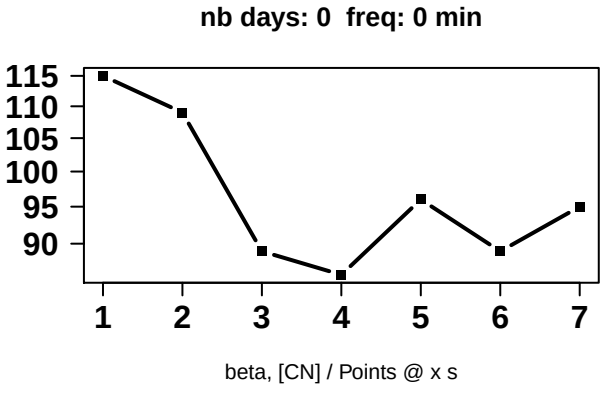

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

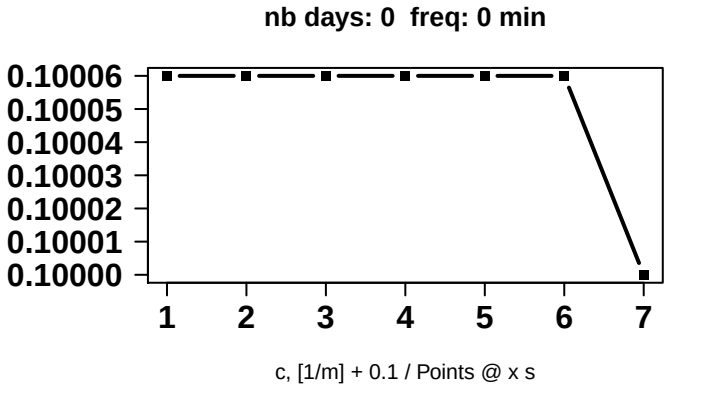

2012−12−08 00:48:42 2012−12−08 00:48:49
408
406
404
402
5
10
15
20
Pressure in

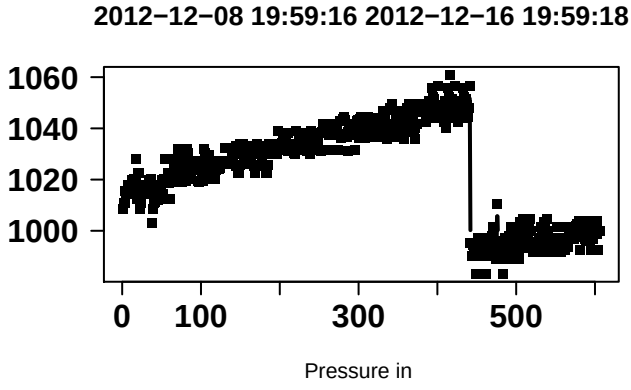

black 0.036 red 0.054
Seawater potential density anomaly
Seawater density − 1000
26.905
26.900
26.895
26.890
26.885
26.880
26.875
28.69
28.67
28.65
1
2
3
4
5
6
7

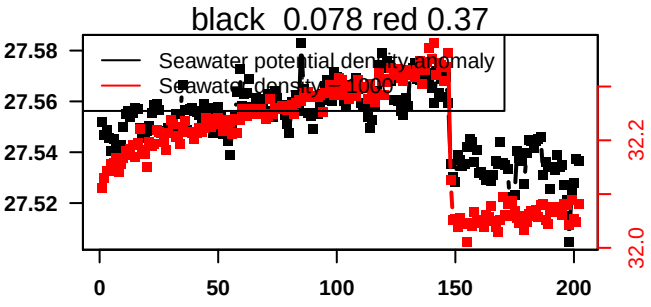

lovbio006b_007_03_06.txt
70
69
68
67
66
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

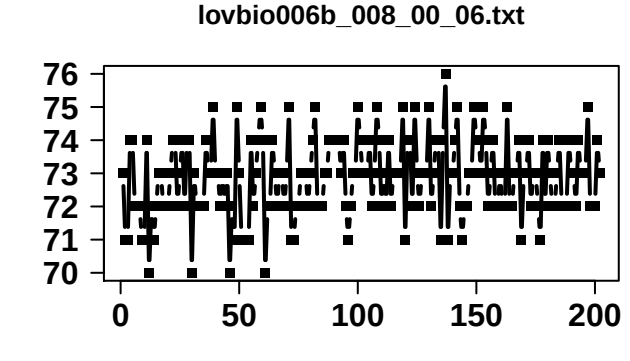

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

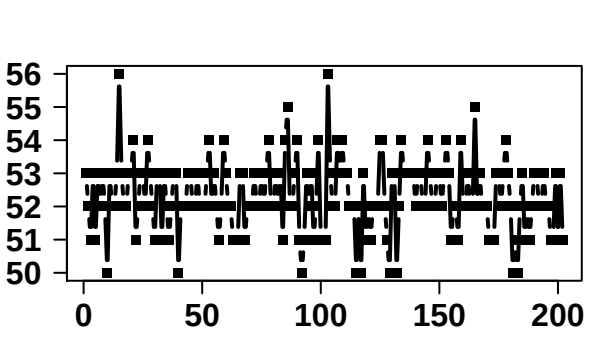

nb days: 0 freq: 0 min
115
110
105
100
95
90
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

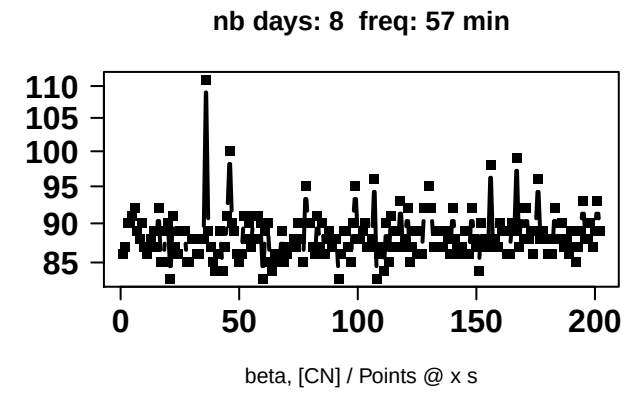

nb days: 0 freq: 0 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

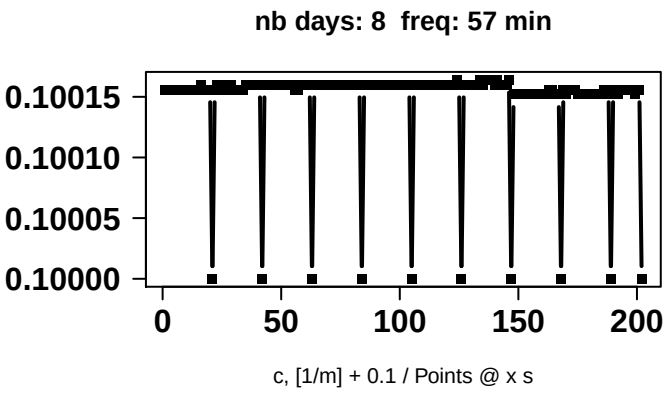

2012−12−08 19:59:16 2012−12−16 19:59:18
1060
1040
1020
1000
0
100
300
500
Pressure in

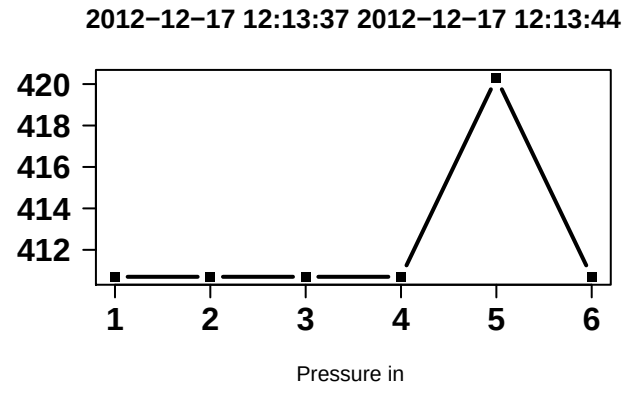

black 0.078 red 0.37
Seawater potential density anomaly
27.58
27.56
27.54
27.52
0
50
100
150
200
32.2
32.0

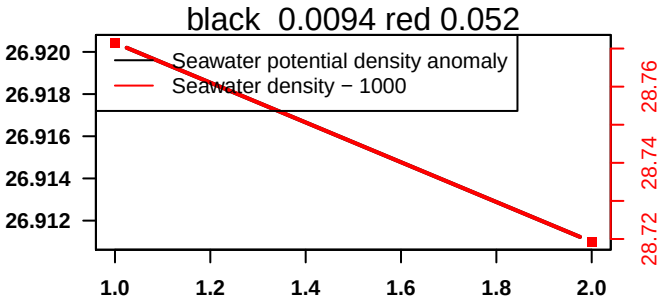

lovbio006b_008_00_06.txt
76
75
74
73
72
71
70
0
50
100
150
200
CDOM, [CN] / Points @ x s

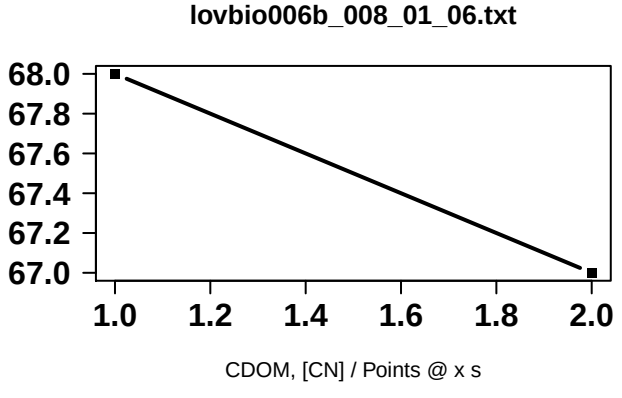

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

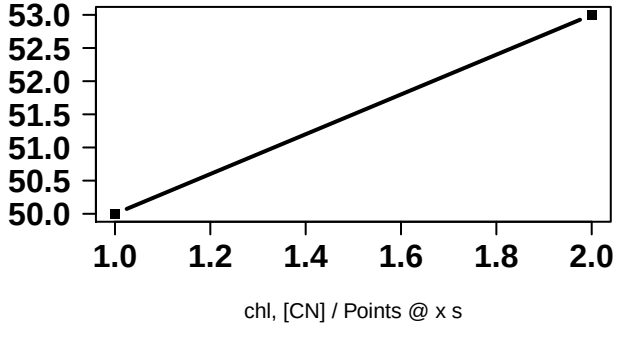

nb days: 8 freq: 57 min
110
105
100
95
90
85
0
50
100
150
200
beta, [CN] / Points @ x s

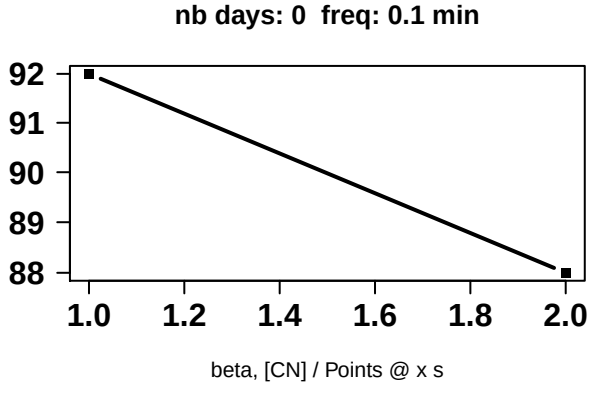

nb days: 8 freq: 57 min
0.10015
0.10010
0.10005
0.10000
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

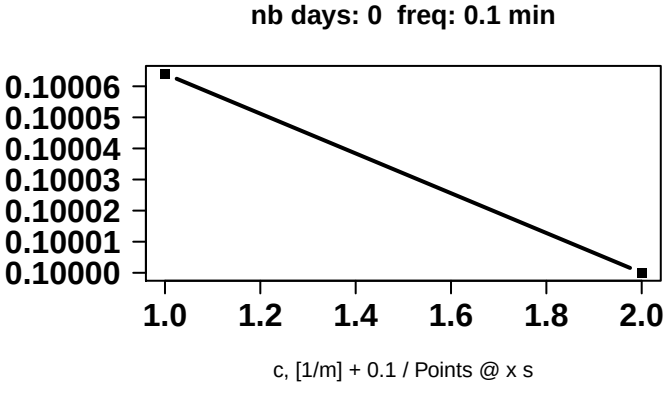

2012−12−17 12:13:37 2012−12−17 12:13:44
420
418
416
414
412
1
2
3
4
5
6
Pressure in

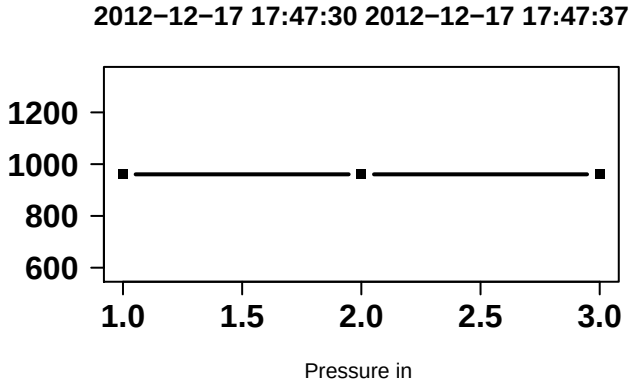

black 0.0094 red 0.052
Seawater potential density anomaly
Seawater density − 1000
26.920
26.918
26.916
26.914
26.912
28.76
28.74
28.72
1.0
1.2
1.4
1.6
1.8
2.0

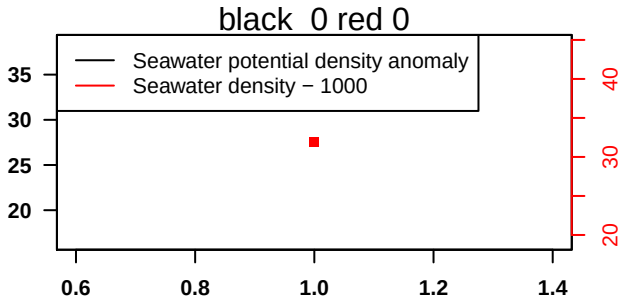

lovbio006b_008_01_06.txt
68.0
67.8
67.6
67.4
67.2
67.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

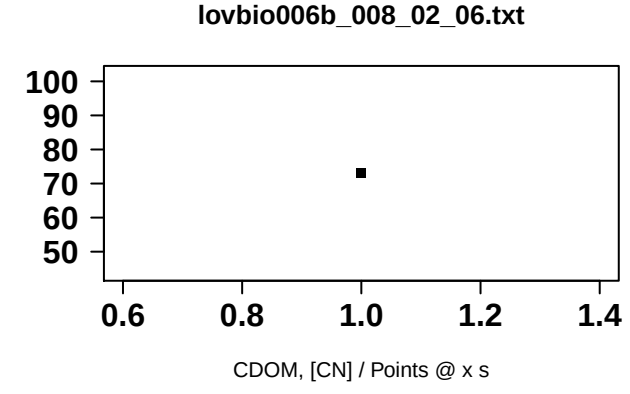

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

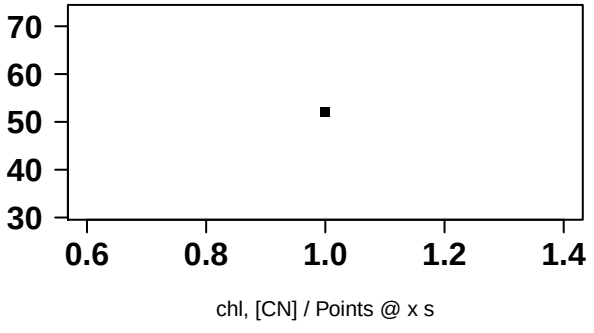

nb days: 0 freq: 0.1 min
92
91
90
89
88
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

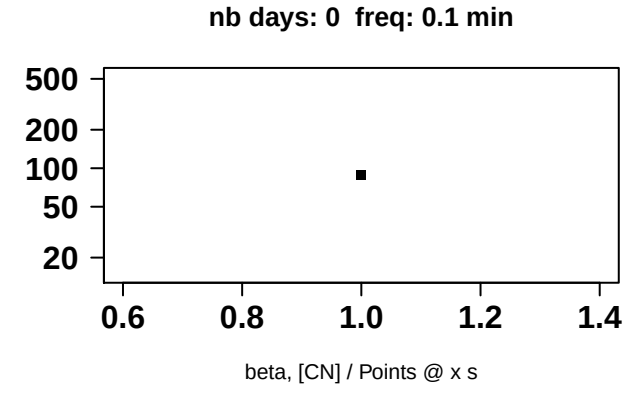

nb days: 0 freq: 0.1 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

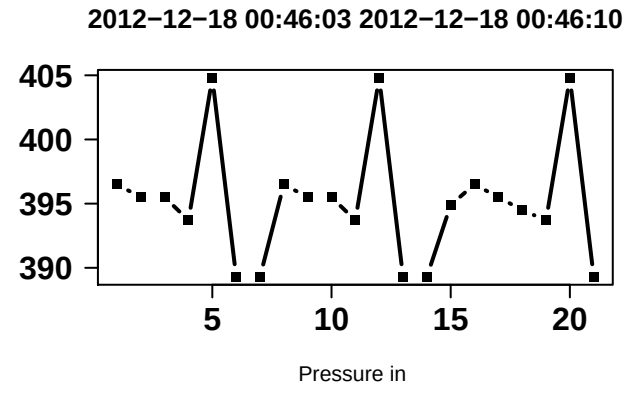

2012−12−17 17:47:30 2012−12−17 17:47:37
1200
1000
800
600
1.0
1.5
2.0
2.5
3.0
Pressure in

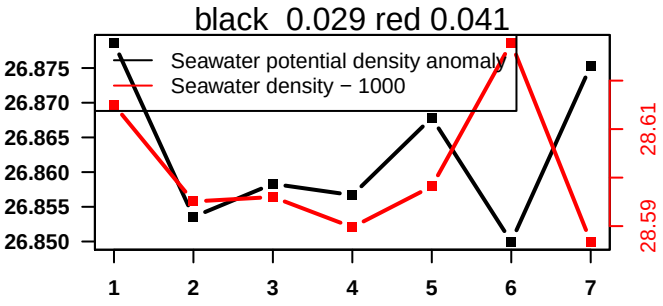

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
40
30
20
0.6
0.8
1.0
1.2
1.4

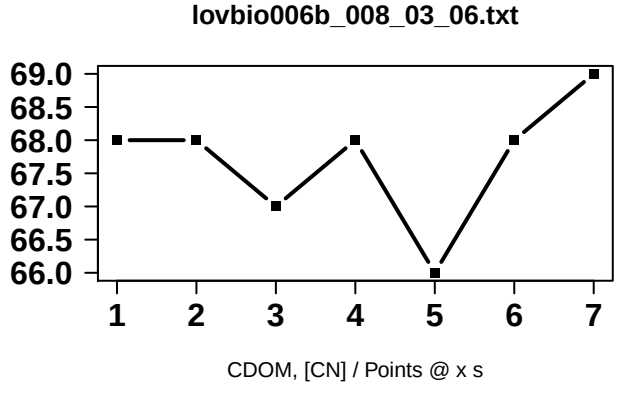

lovbio006b_008_02_06.txt
100
90
80
70
60
50
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

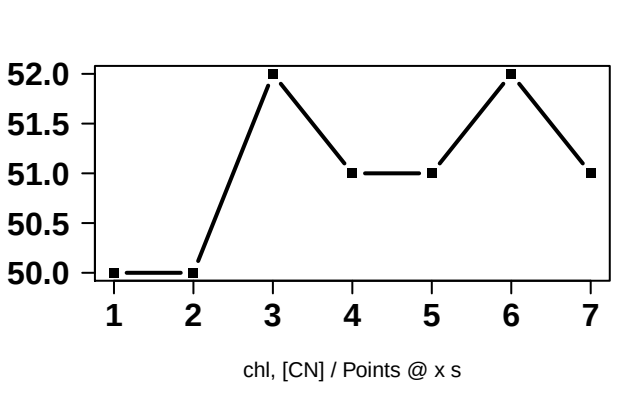

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

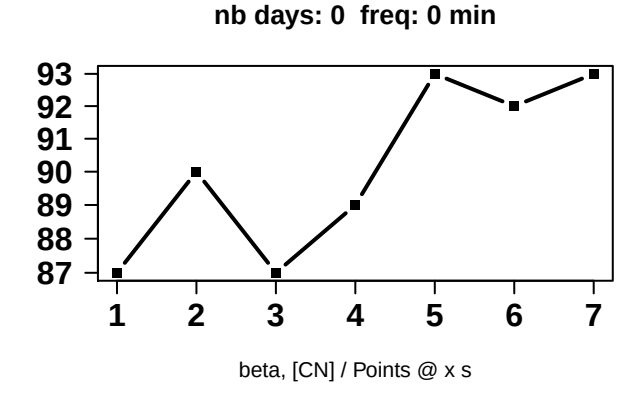

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

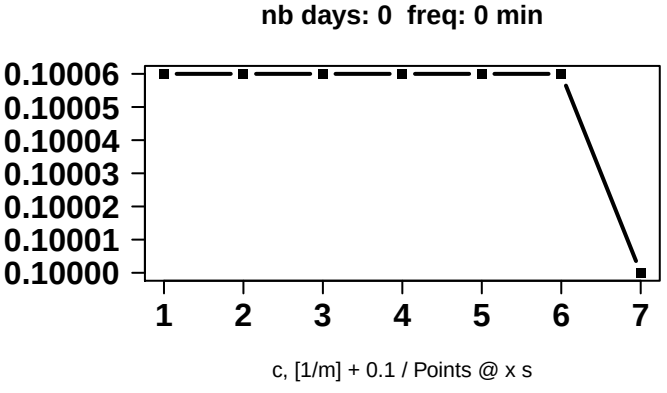

2012−12−18 00:46:03 2012−12−18 00:46:10
405
400
395
390
5
10
15
20
Pressure in

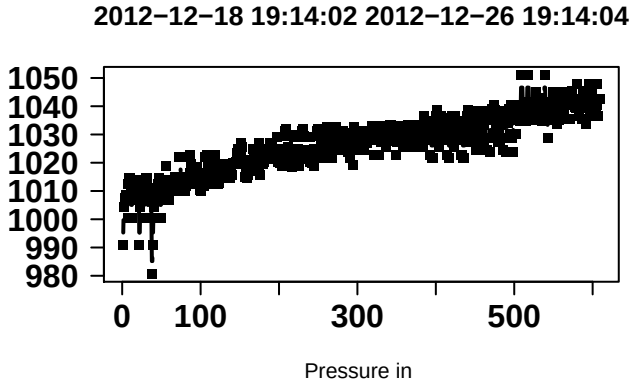

black 0.029 red 0.041
Seawater potential density anomaly
Seawater density − 1000
26.875
26.870
26.865
26.860
26.855
26.850
28.61
28.59
1
2
3
4
5
6
7

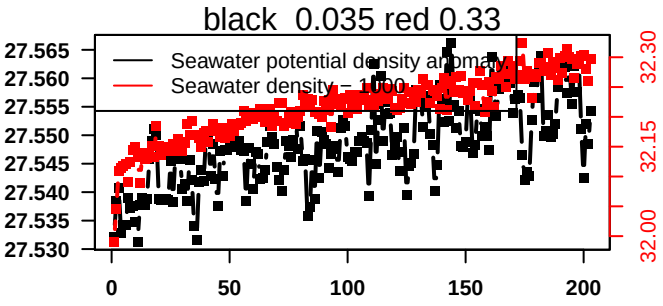

lovbio006b_008_03_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

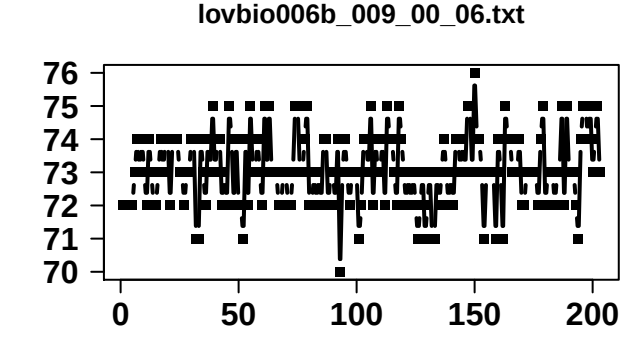

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

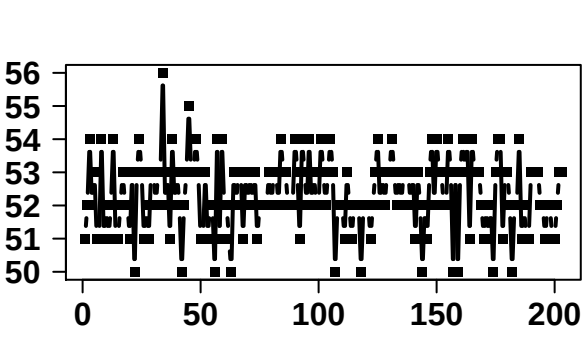

nb days: 0 freq: 0 min
93
92
91
90
89
88
87
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

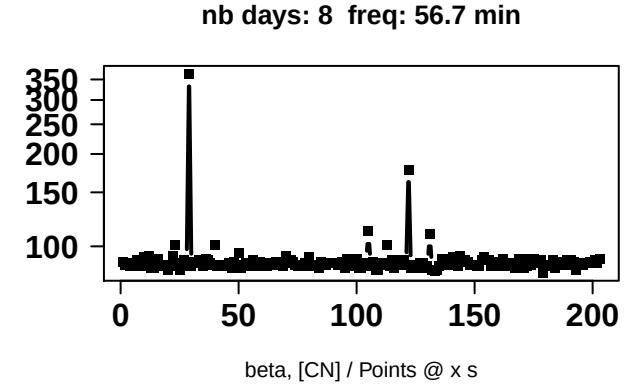

nb days: 0 freq: 0 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

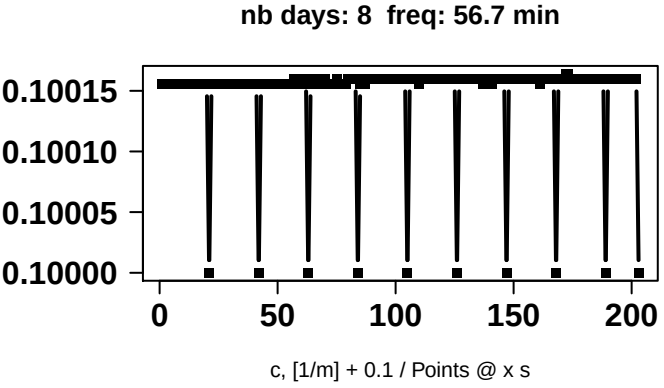

2012−12−18 19:14:02 2012−12−26 19:14:04
1050
1040
1030
1020
1010
1000
990
980
0
100
300
500
Pressure in

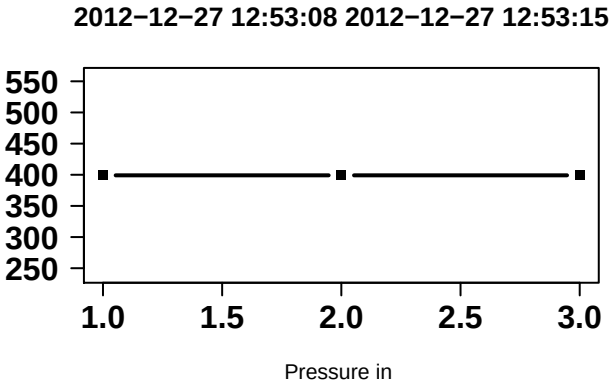

black 0.035 red 0.33
Seawater potential density anomaly
Seawater density − 1000
27.565
27.560
27.555
27.550
27.545
27.540
27.535
27.530
32.30
32.15
32.00
0
50
100
150
200

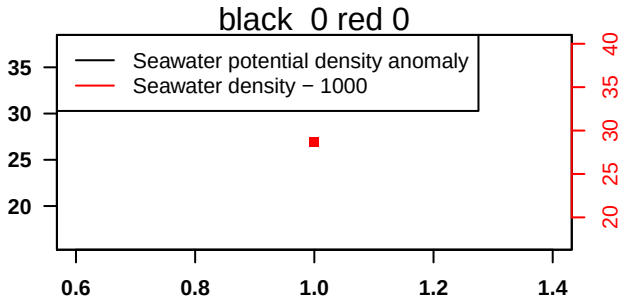

lovbio006b_009_00_06.txt
76
75
74
73
72
71
70
0
50
100
150
200
CDOM, [CN] / Points @ x s

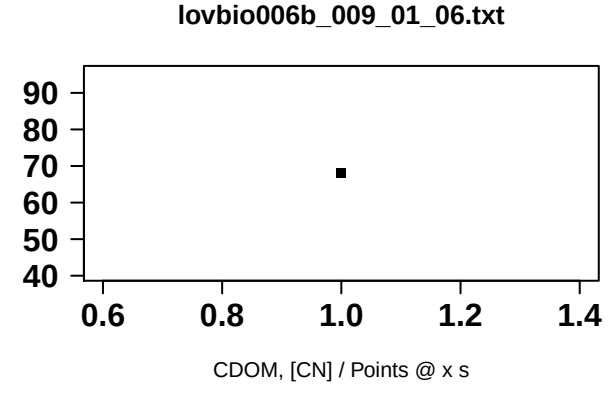

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

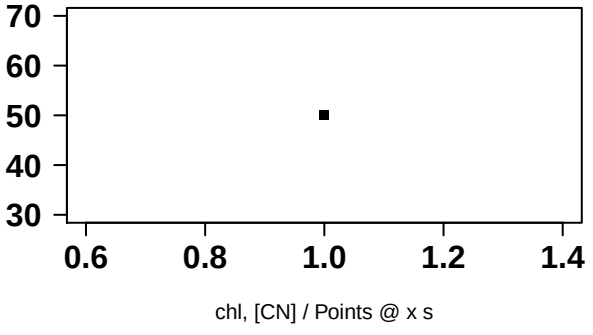

nb days: 8 freq: 56.7 min
350
300
250
200
150
100
0
50
100
150
200
beta, [CN] / Points @ x s

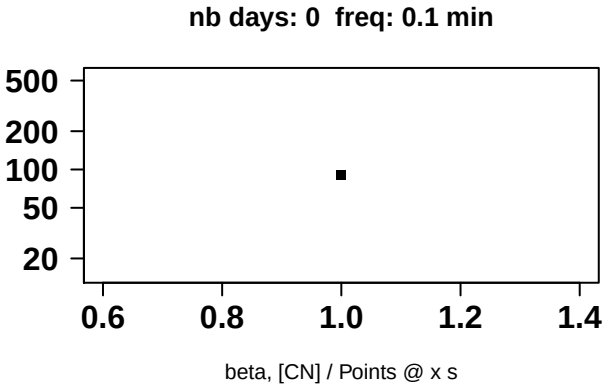

nb days: 8 freq: 56.7 min
0.10015
0.10010
0.10005
0.10000
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

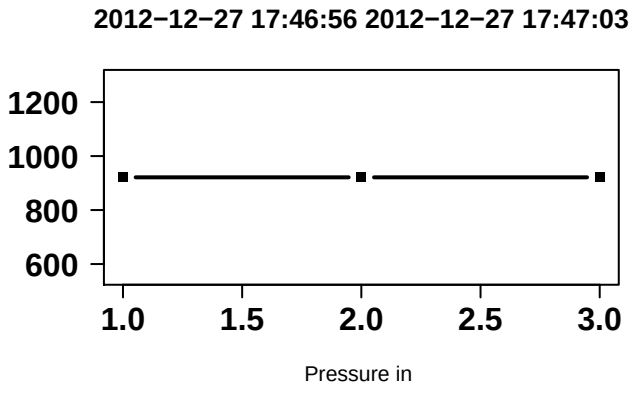

2012−12−27 12:53:08 2012−12−27 12:53:15
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

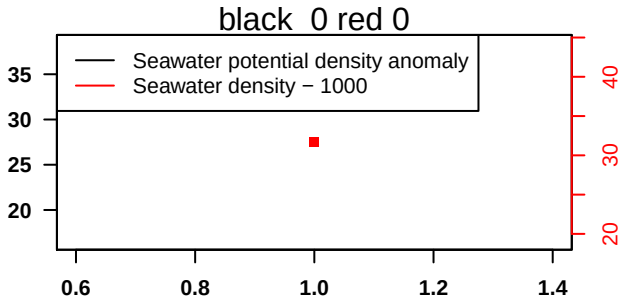

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

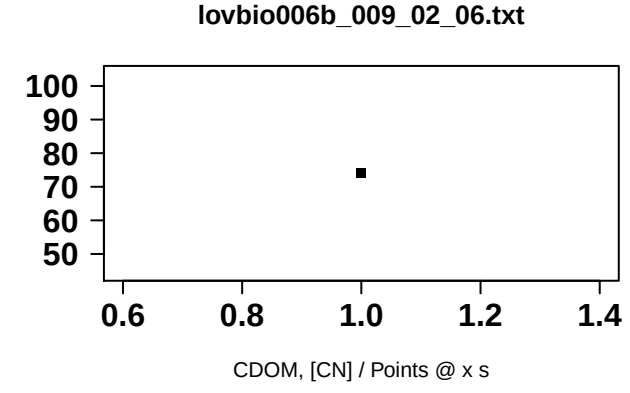

lovbio006b_009_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

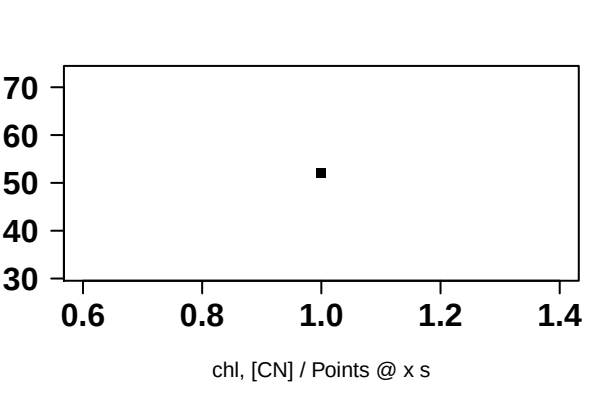

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

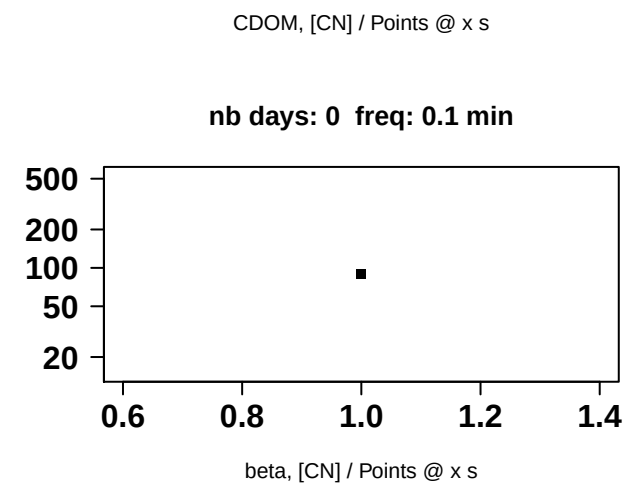

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

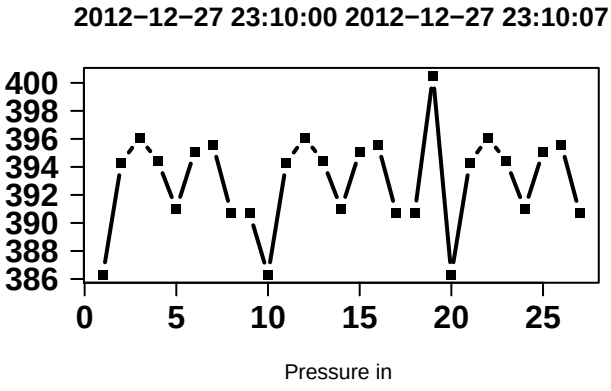

2012−12−27 17:46:56 2012−12−27 17:47:03
1200
1000
800
600
1.0
1.5
2.0
2.5
3.0
Pressure in

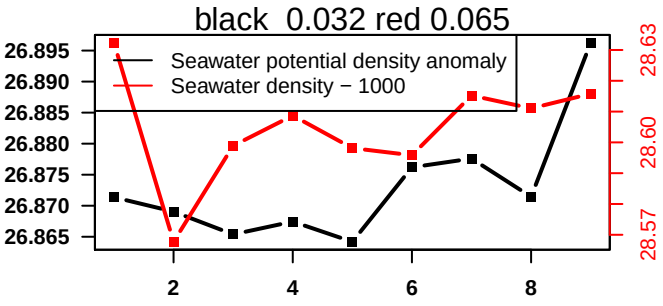

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
40
30
20
0.6
0.8
1.0
1.2
1.4

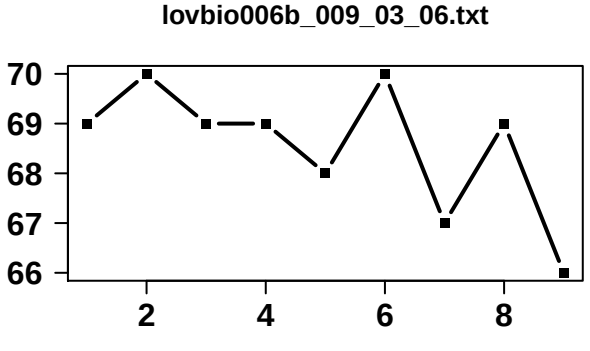

lovbio006b_009_02_06.txt
100
90
80
70
60
50
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

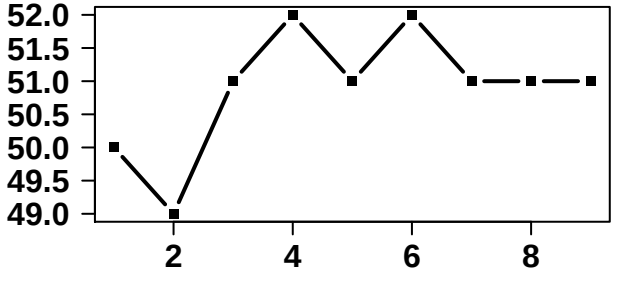

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

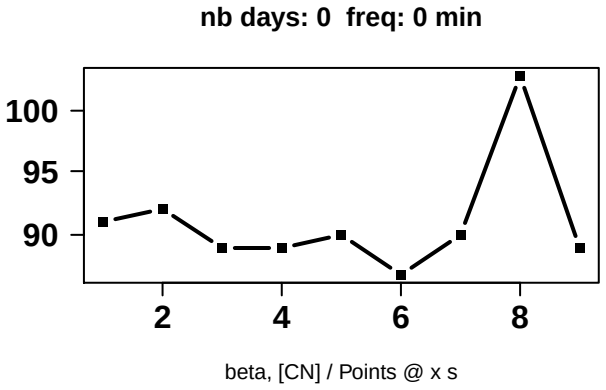

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

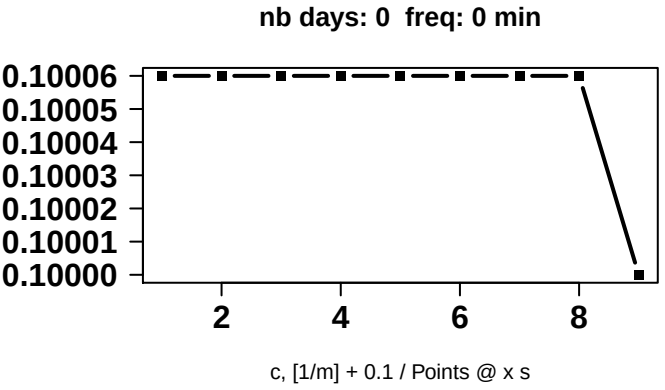

2012−12−27 23:10:00 2012−12−27 23:10:07
400
398
396
394
392
390
388
386
0
5
10
15
20
25
Pressure in

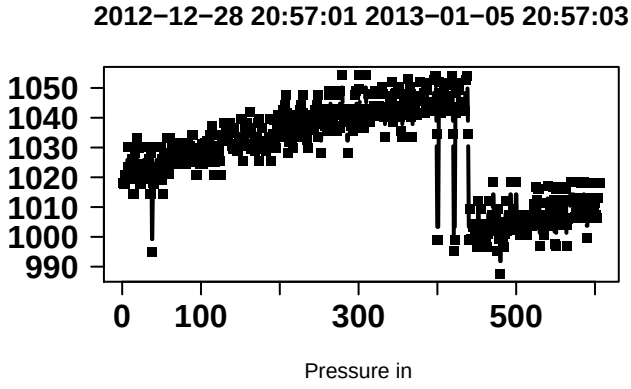

black 0.032 red 0.065
Seawater potential density anomaly
Seawater density − 1000
26.895
26.890
26.885
26.880
26.875
26.870
26.865
28.63
28.60
28.57
2
4
6
8

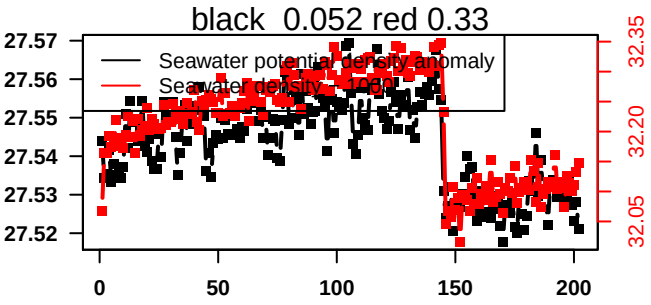

lovbio006b_009_03_06.txt
70
69
68
67
66
2
4
6
8
CDOM, [CN] / Points @ x s

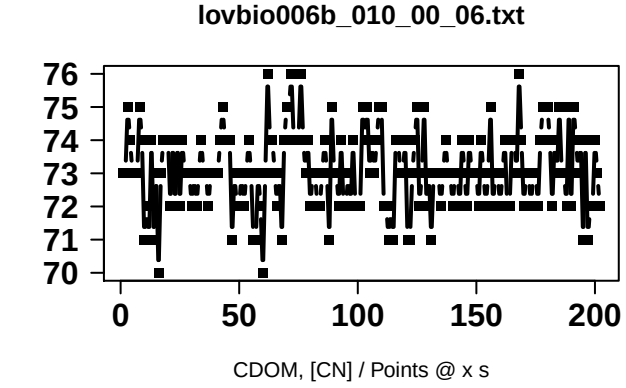

52.0
51.5
51.0
50.5
50.0
49.5
49.0
2
4
6
8
chl, [CN] / Points @ x s

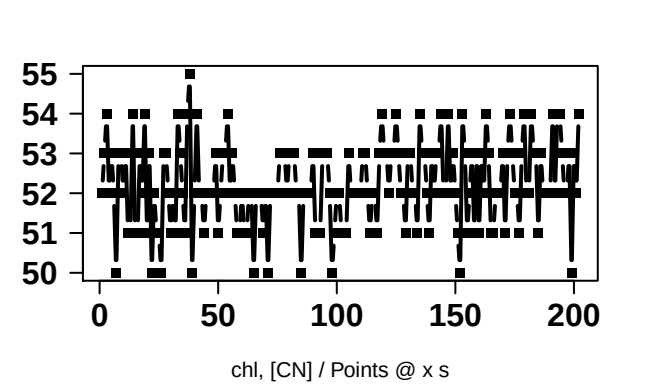

nb days: 0 freq: 0 min
100
95
90
2
4
6
8
beta, [CN] / Points @ x s

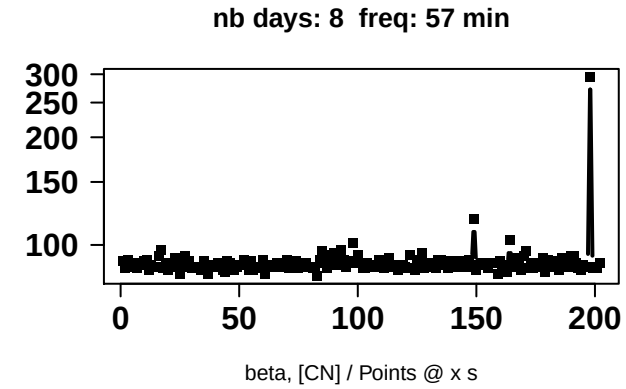

nb days: 0 freq: 0 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

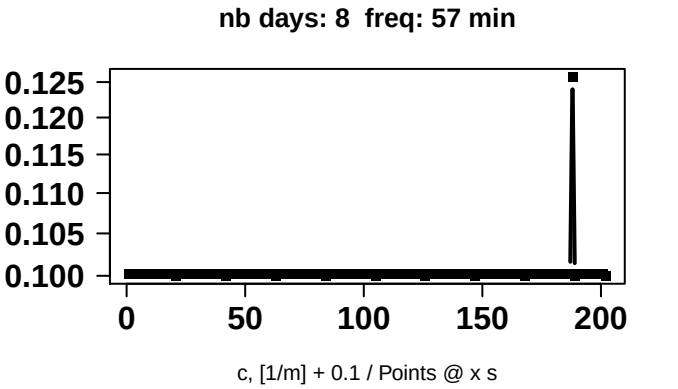

2012−12−28 20:57:01 2013−01−05 20:57:03
1050
1040
1030
1020
1010
1000
990
0
100
300
500
Pressure in

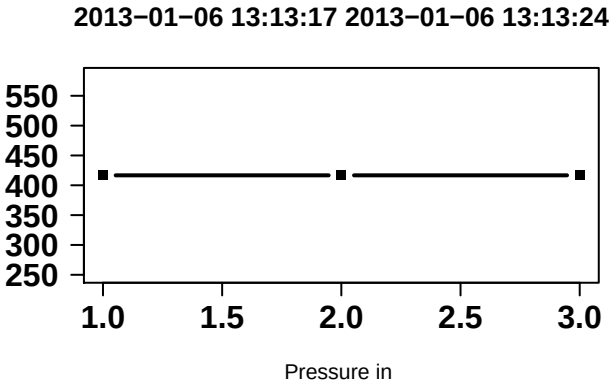

black 0.052 red 0.33
Seawater potential density anomaly
Seawater density − 1000
27.57
27.56
27.55
27.54
27.53
27.52
32.35
32.20
32.05
0
50
100
150
200

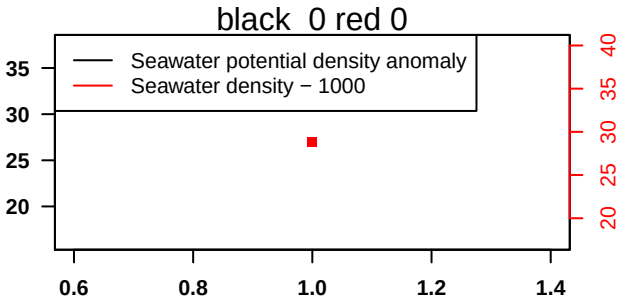

lovbio006b_010_00_06.txt
76
75
74
73
72
71
70
0
50
100
150
200
CDOM, [CN] / Points @ x s

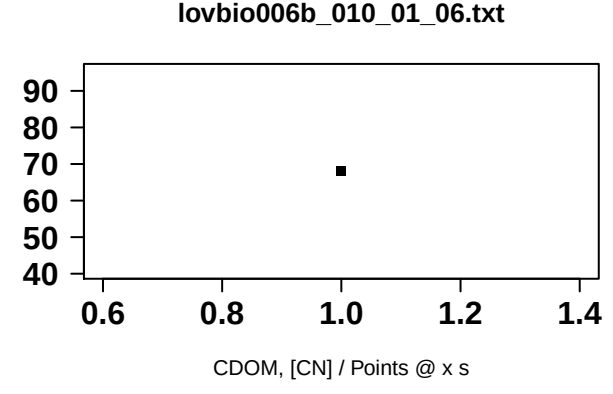

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

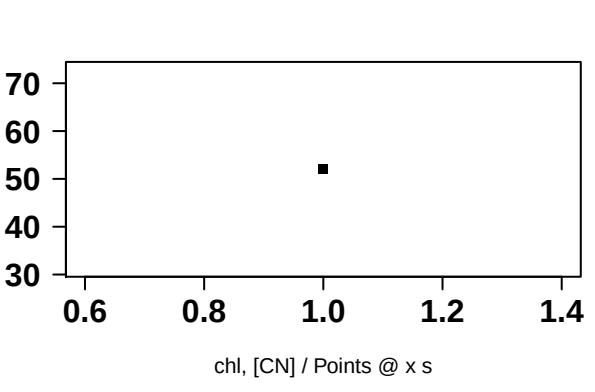

nb days: 8 freq: 57 min
300
250
200
150
100
0
50
100
150
200
beta, [CN] / Points @ x s

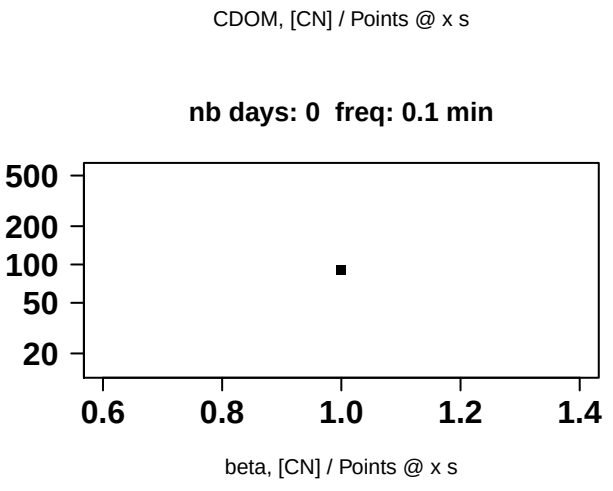

nb days: 8 freq: 57 min
0.125
0.120
0.115
0.110
0.105
0.100
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

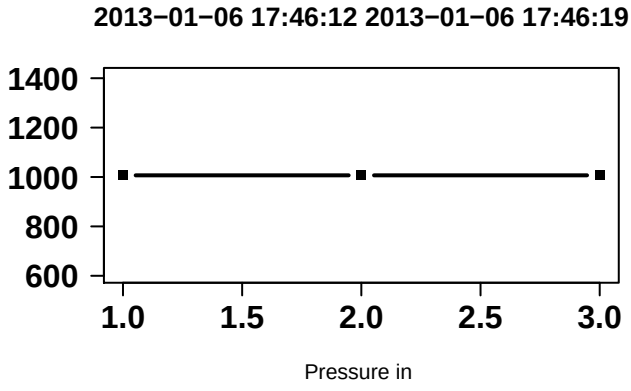

2013−01−06 13:13:17 2013−01−06 13:13:24
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

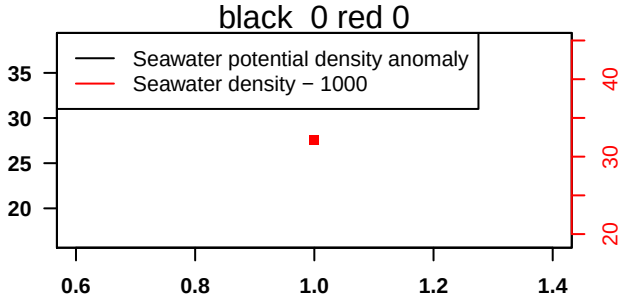

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

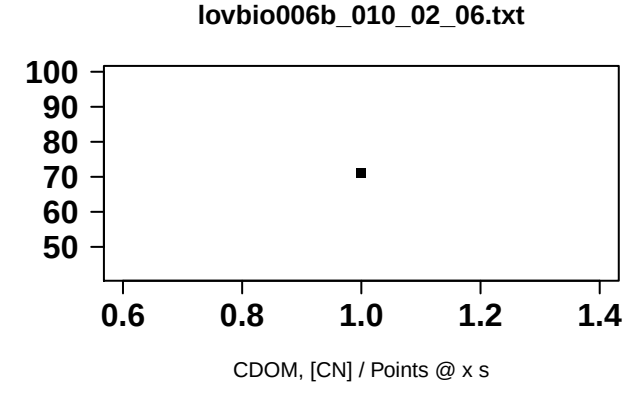

lovbio006b_010_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

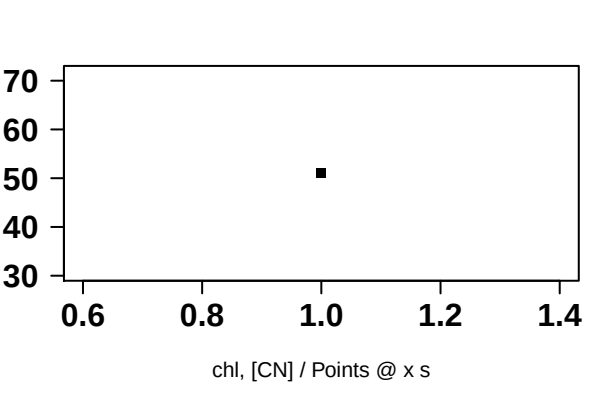

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

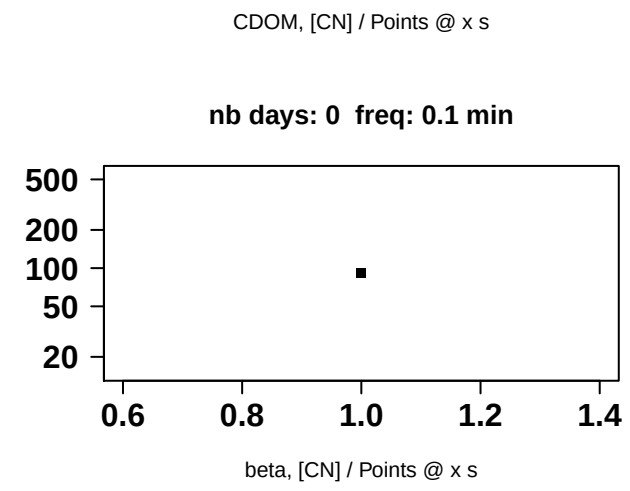

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

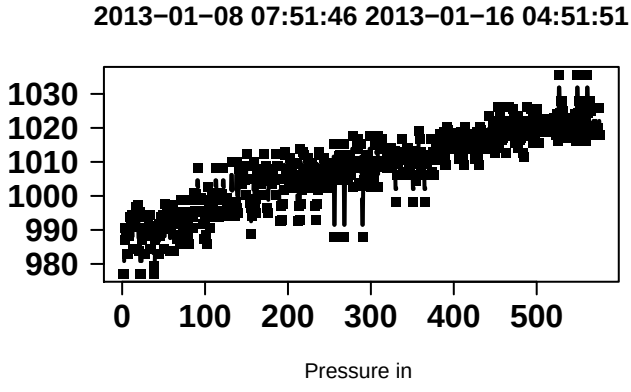

2013−01−06 17:46:12 2013−01−06 17:46:19
1400
1200
1000
800
600
1.0
1.5
2.0
2.5
3.0
Pressure in

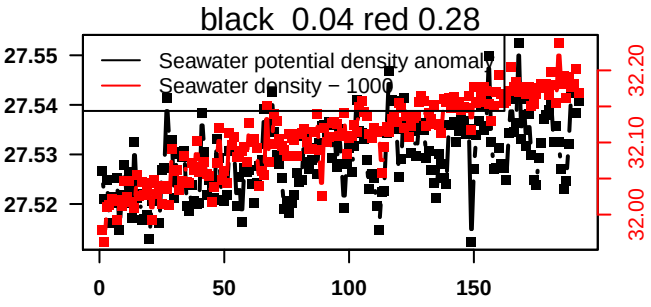

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

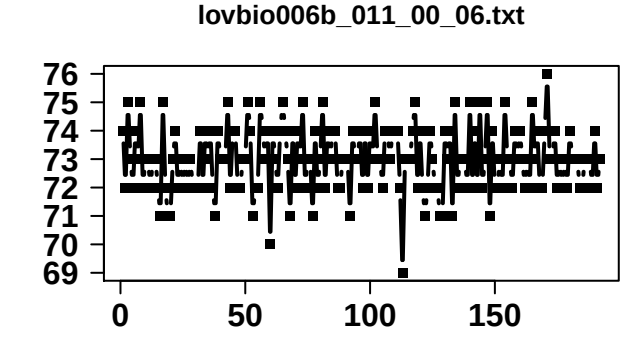

lovbio006b_010_02_06.txt
100
90
80
70
60
50
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

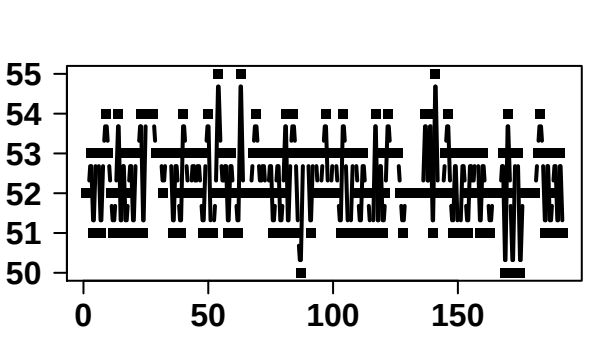

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

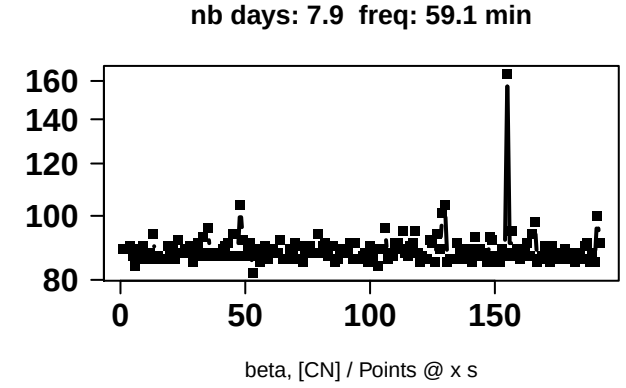

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

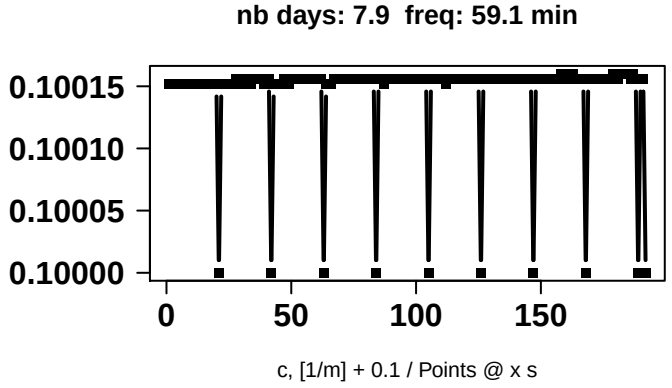

2013−01−08 07:51:46 2013−01−16 04:51:51
1030
1020
1010
1000
990
980
0
100
200
300
400
500
Pressure in

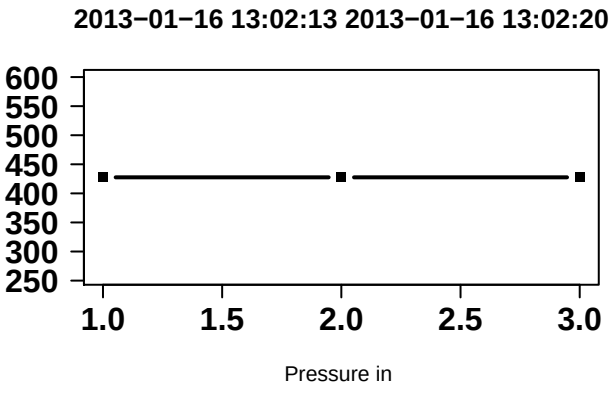

black 0.04 red 0.28
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
32.20
32.10
32.00
0
50
100
150

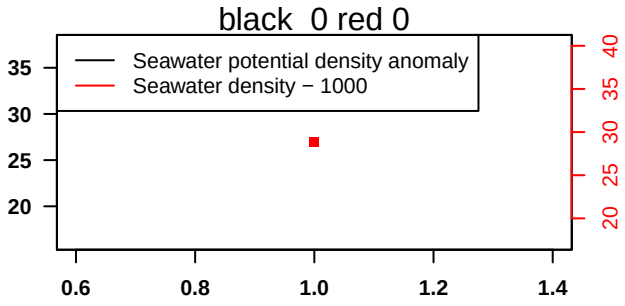

lovbio006b_011_00_06.txt
76
75
74
73
72
71
70
69
0
50
100
150
CDOM, [CN] / Points @ x s

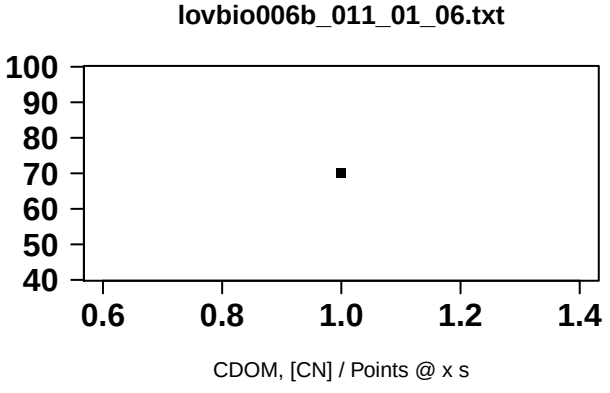

55
54
53
52
51
50
0
50
100
150
chl, [CN] / Points @ x s

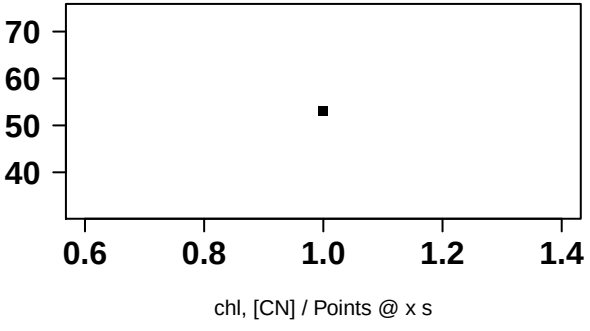

nb days: 7.9 freq: 59.1 min
160
140
120
100
80
0
50
100
150
beta, [CN] / Points @ x s

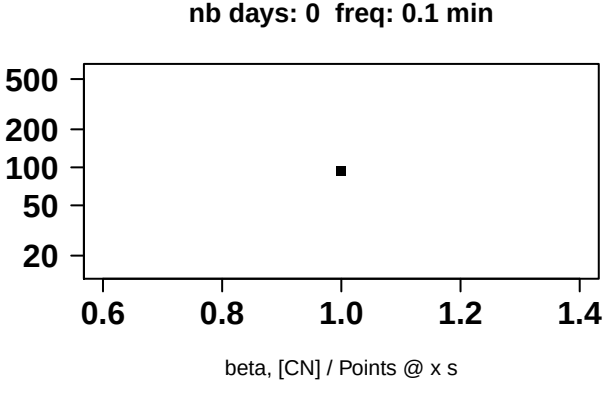

nb days: 7.9 freq: 59.1 min
0.10015
0.10010
0.10005
0.10000
0
50
100
150
c, [1/m] + 0.1 / Points @ x s

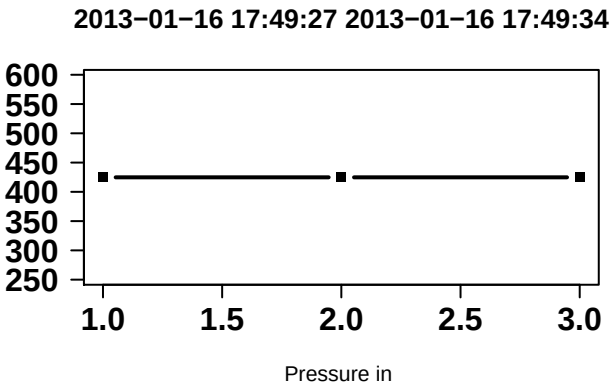

2013−01−16 13:02:13 2013−01−16 13:02:20
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

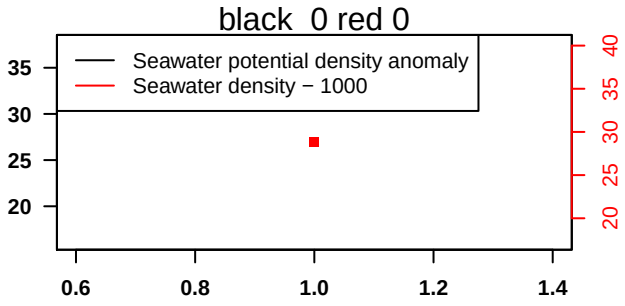

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

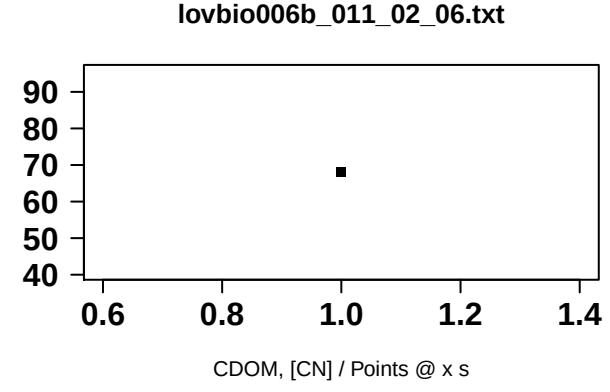

lovbio006b_011_01_06.txt
100
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

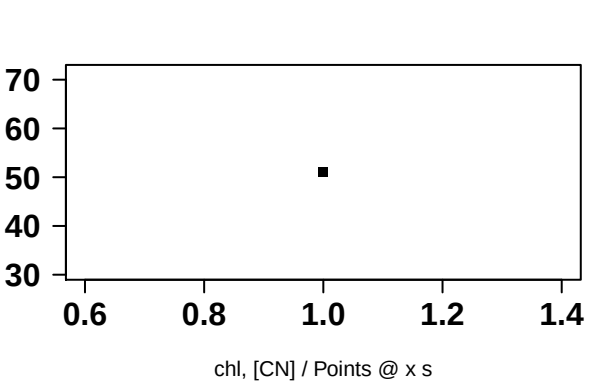

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

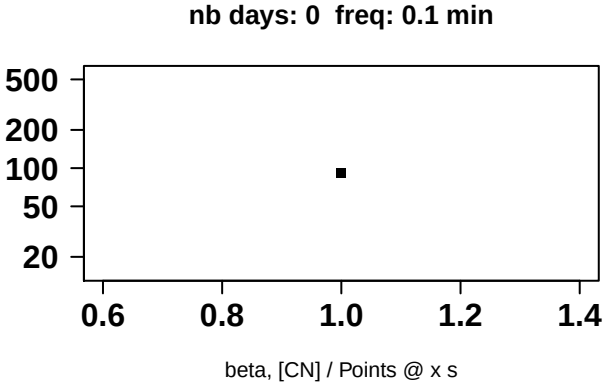

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

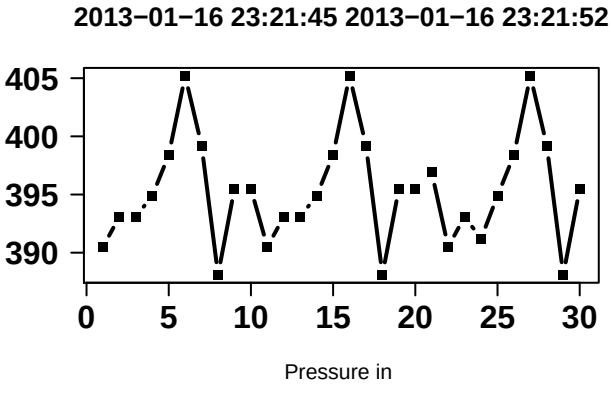

2013−01−16 17:49:27 2013−01−16 17:49:34
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

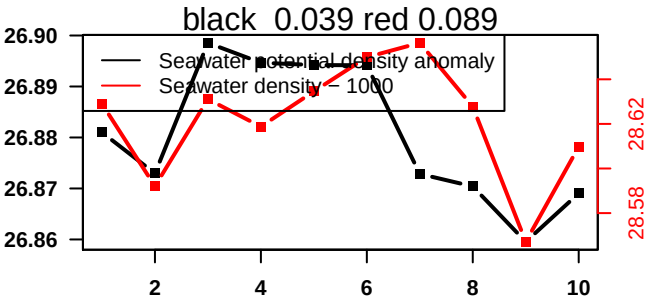

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

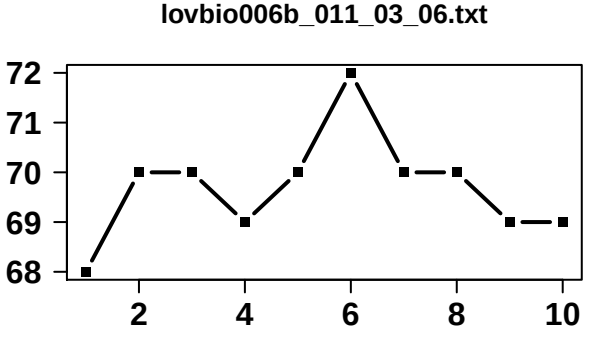

lovbio006b_011_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

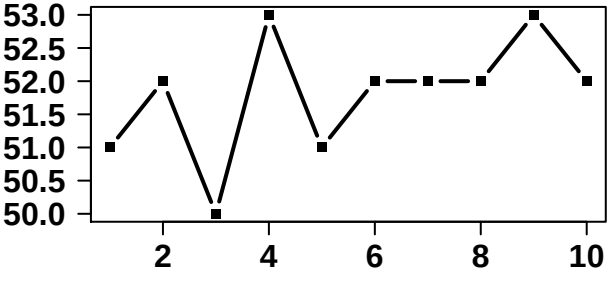

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

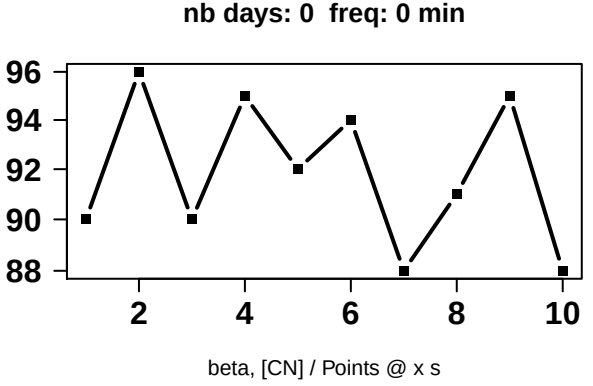

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

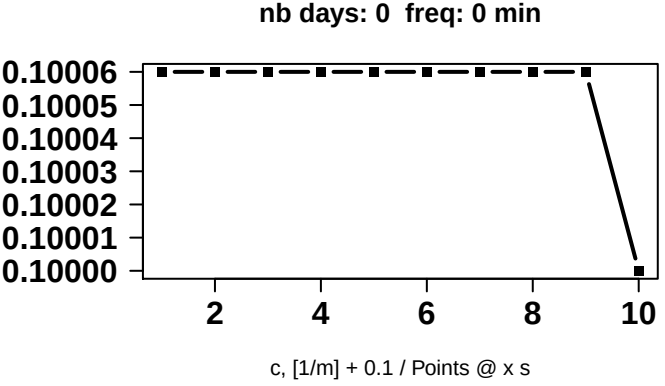

2013−01−16 23:21:45 2013−01−16 23:21:52
405
400
395
390
0
5
10
15
20
25
30
Pressure in

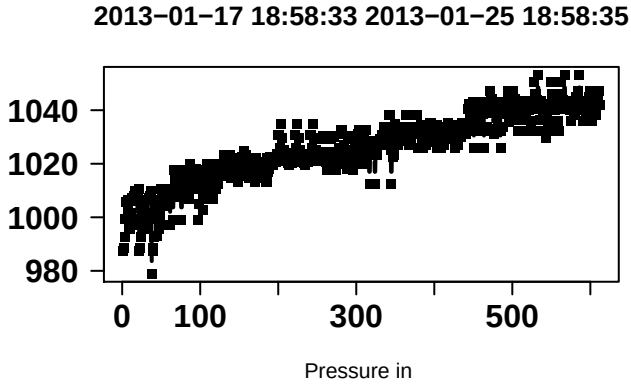

black 0.039 red 0.089
26.90
26.89
26.88
26.87
26.86
Seawater potential density anomaly
Seawater density − 1000
28.62
28.58
2
4
6
8
10

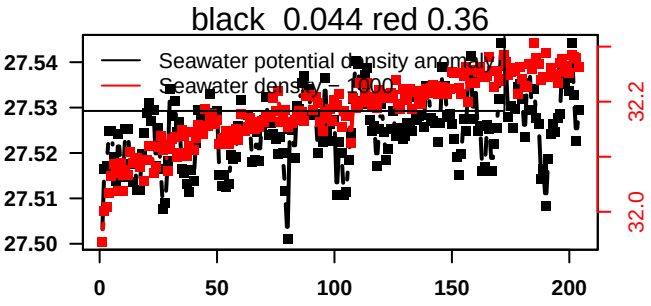

lovbio006b_011_03_06.txt
72
71
70
69
68
2
4
6
8
10
CDOM, [CN] / Points @ x s

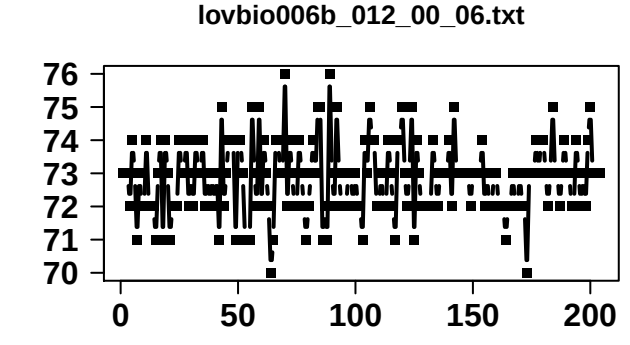

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

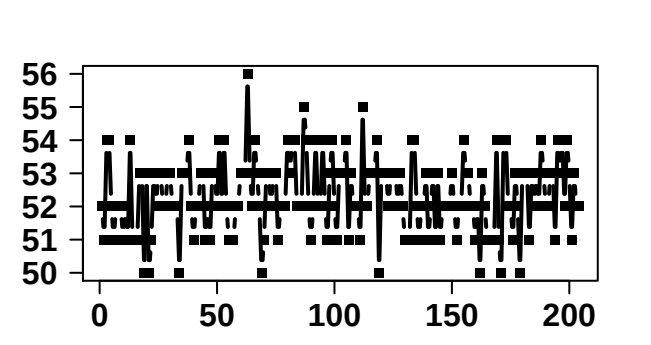

nb days: 0 freq: 0 min
96
94
92
90
88
2
4
6
8
10
beta, [CN] / Points @ x s

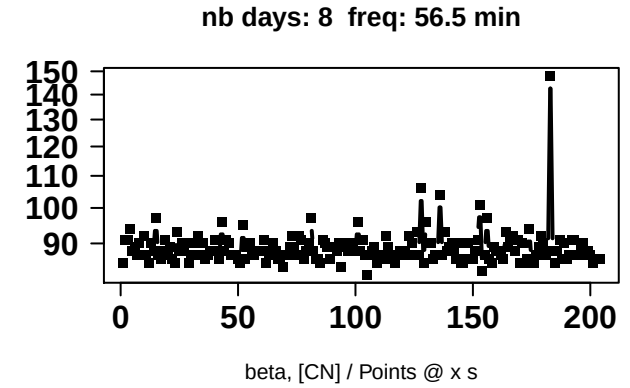

nb days: 0 freq: 0 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

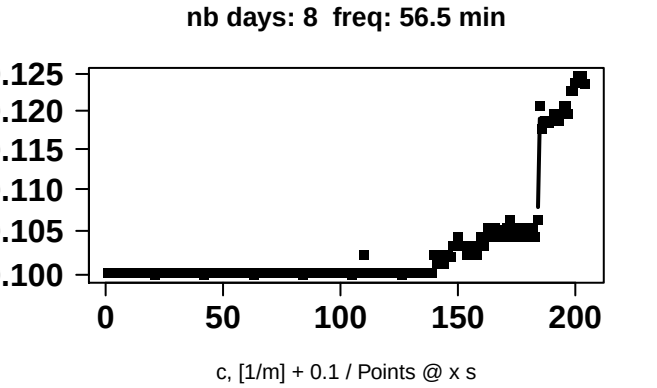

2013−01−17 18:58:33 2013−01−25 18:58:35
1040
1020
1000
980
0
100
300
500
Pressure in

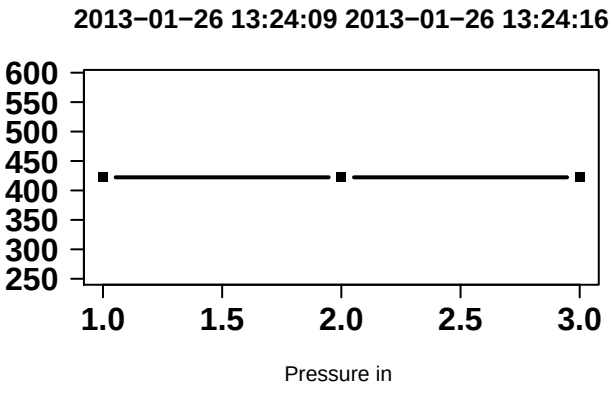

black 0.044 red 0.36
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.2
32.0
0
50
100
150
200

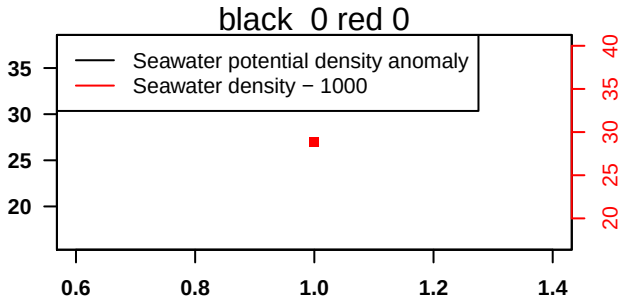

lovbio006b_012_00_06.txt
76
75
74
73
72
71
70
0
50
100
150
200
CDOM, [CN] / Points @ x s

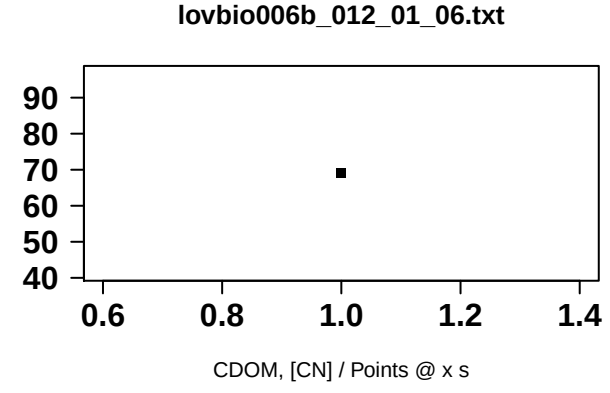

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

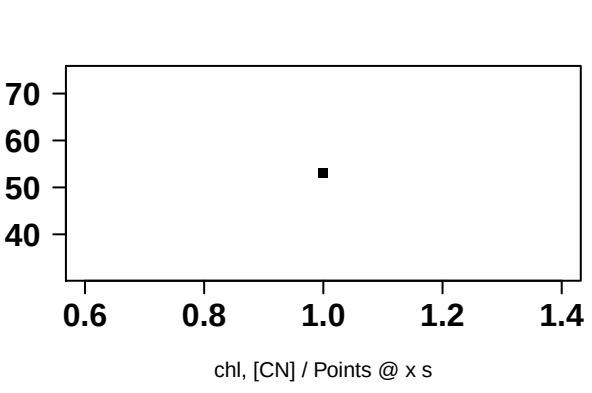

nb days: 8 freq: 56.5 min
150
140
130
120
110
100
90
0
50
100
150
200
beta, [CN] / Points @ x s

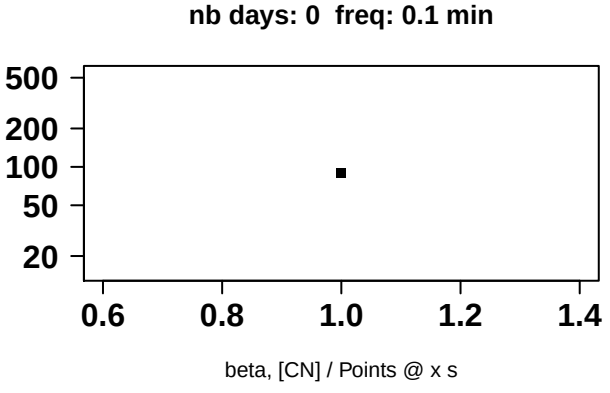

nb days: 8 freq: 56.5 min
0.125
0.120
0.115
0.110
0.105
0.100
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

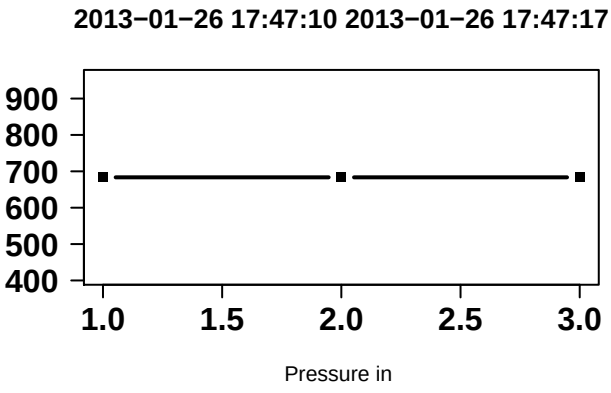

2013−01−26 13:24:09 2013−01−26 13:24:16
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

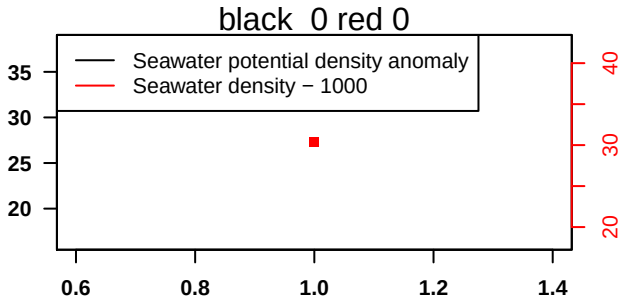

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

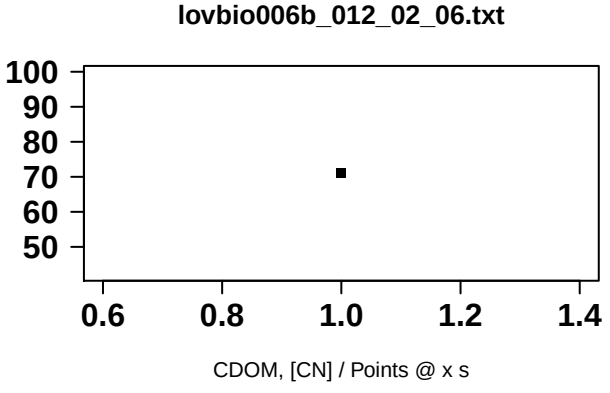

lovbio006b_012_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

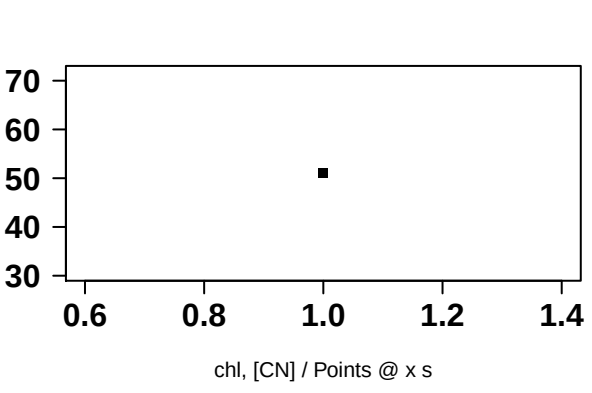

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

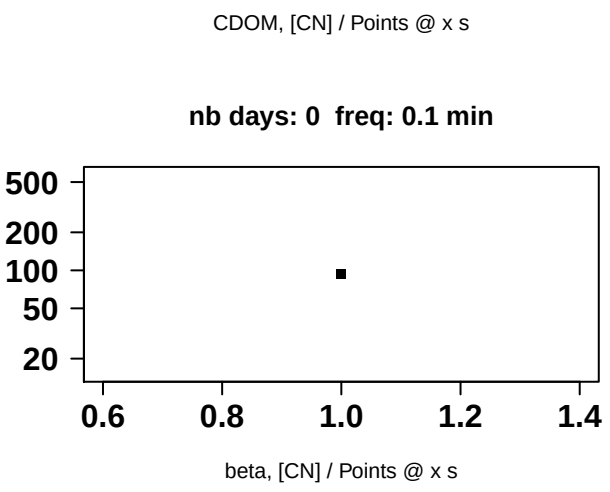

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

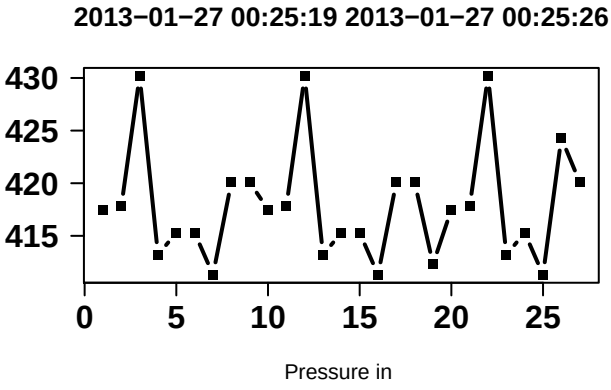

2013−01−26 17:47:10 2013−01−26 17:47:17
900
800
700
600
500
400
1.0
1.5
2.0
2.5
3.0
Pressure in

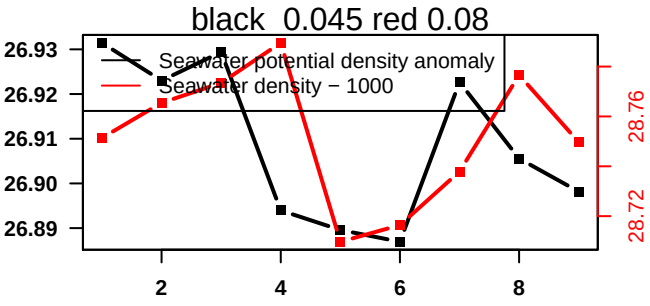

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

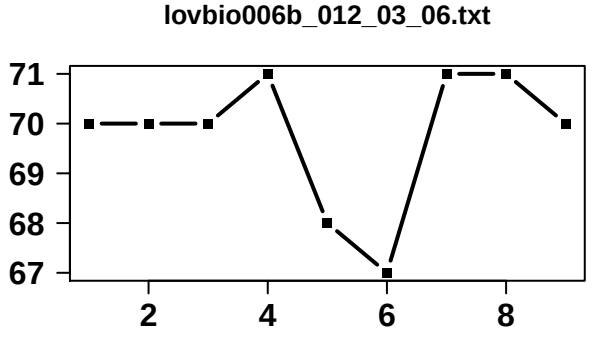

lovbio006b_012_02_06.txt
100
90
80
70
60
50
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

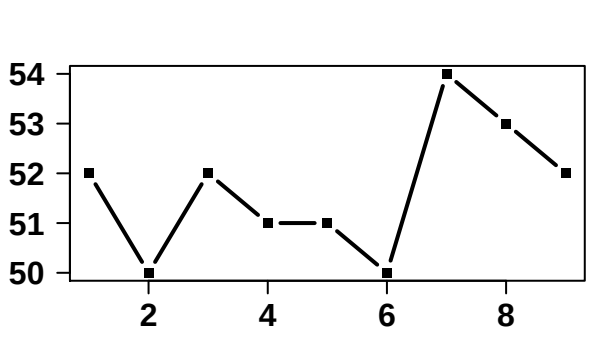

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

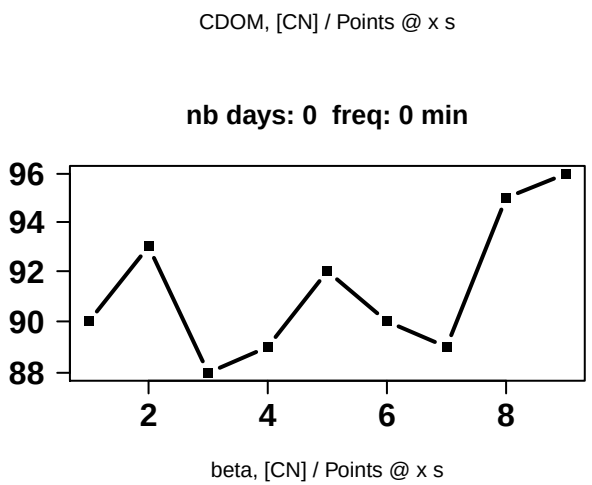

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

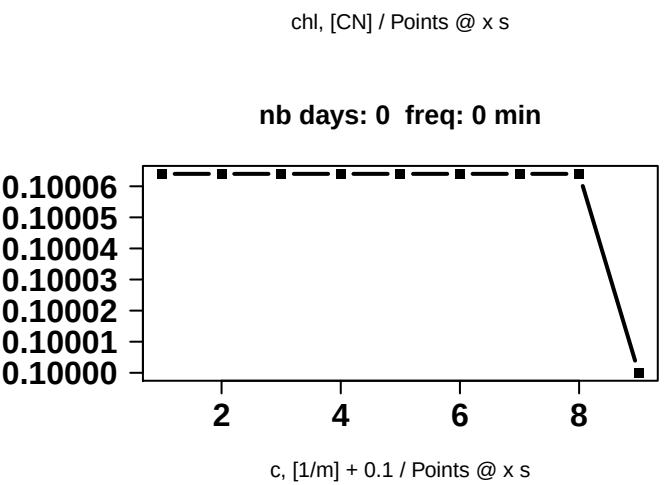

2013−01−27 00:25:19 2013−01−27 00:25:26
430
425
420
415
0
5
10
15
20
25
Pressure in

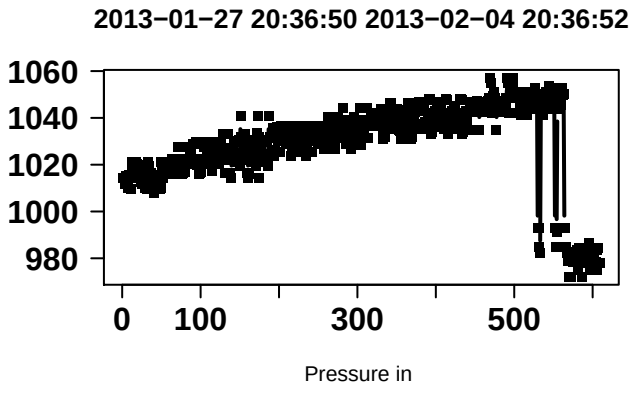

black 0.045 red 0.08
Seawater potential density anomaly
Seawater density − 1000
26.93
26.92
26.91
26.90
26.89
28.76
28.72
2
4
6
8

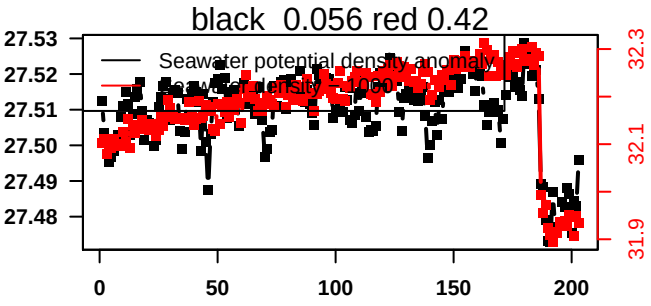

lovbio006b_012_03_06.txt
71
70
69
68
67
2
4
6
8
CDOM, [CN] / Points @ x s

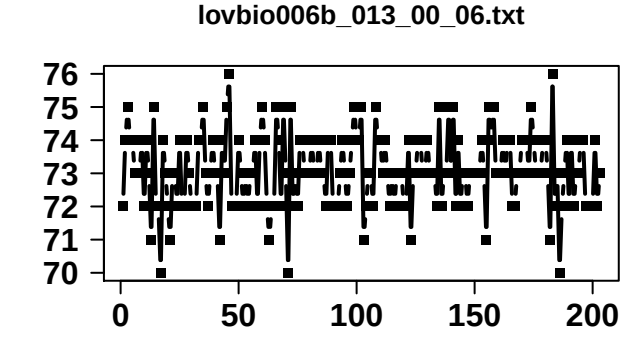

54
53
52
51
50
2
4
6
8
chl, [CN] / Points @ x s

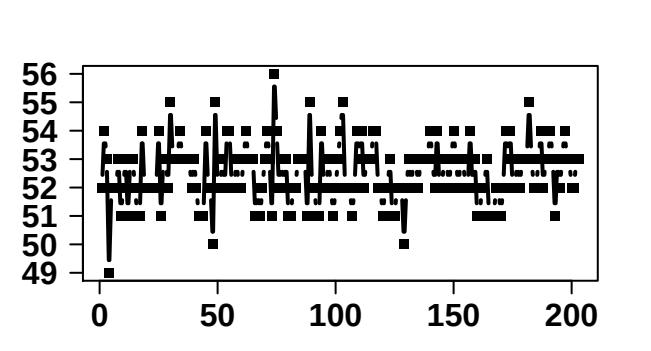

nb days: 0 freq: 0 min
96
94
92
90
88
2
4
6
8
beta, [CN] / Points @ x s

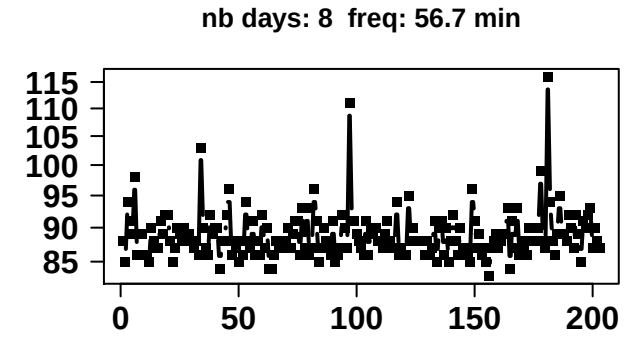

nb days: 0 freq: 0 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

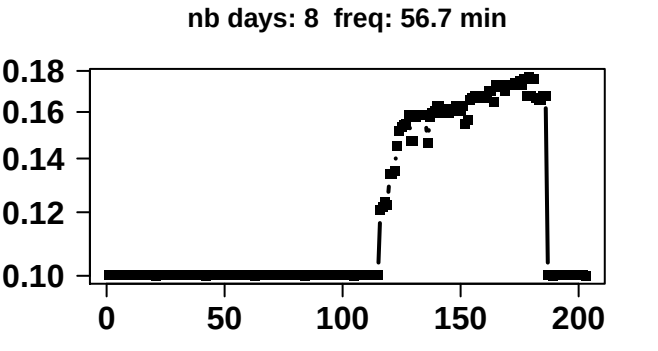

2013−01−27 20:36:50 2013−02−04 20:36:52
1060
1040
1020
1000
980
0
100
300
500
Pressure in

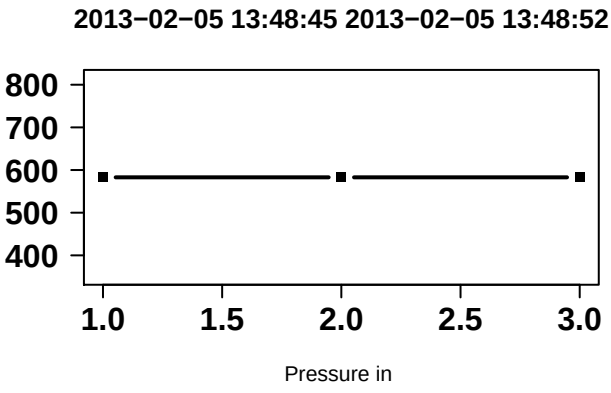

black 0.056 red 0.42
Seawater potential density anomaly
27.53
27.52
27.51
27.50
27.49
27.48
32.3
32.1
31.9
0
50
100
150
200

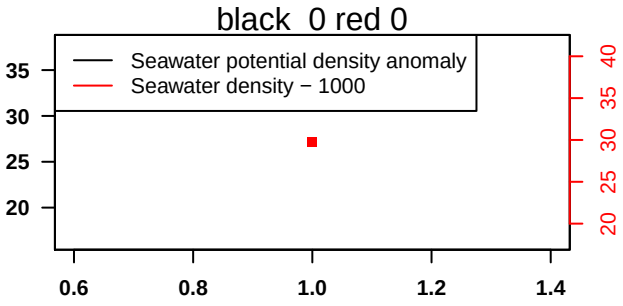

lovbio006b_013_00_06.txt
76
75
74
73
72
71
70
0
50
100
150
200
CDOM, [CN] / Points @ x s

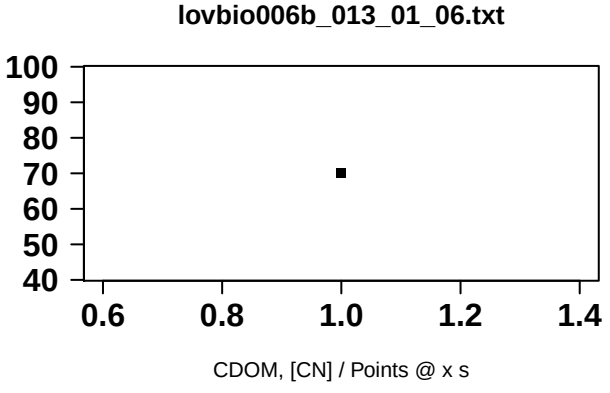

56
55
54
53
52
51
50
49
0
50
100
150
200
chl, [CN] / Points @ x s

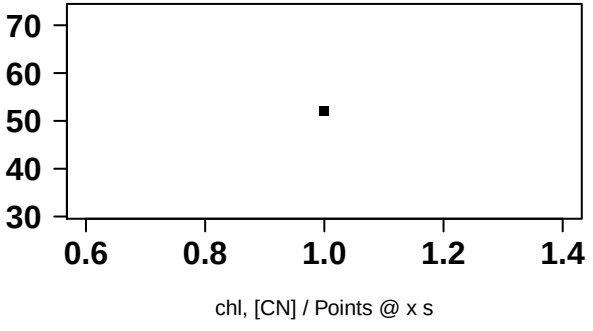

nb days: 8 freq: 56.7 min
115
110
105
100
95
90
85
0
50
100
150
200
beta, [CN] / Points @ x s

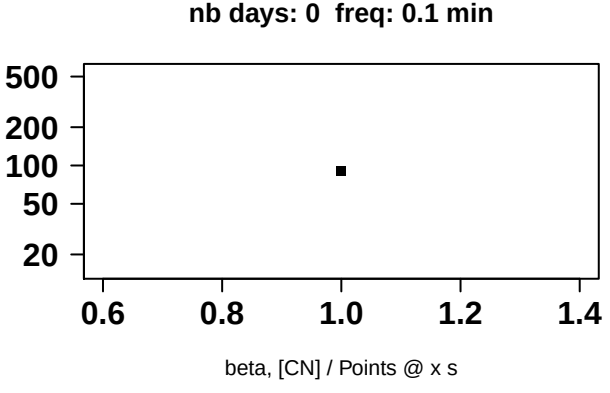

nb days: 8 freq: 56.7 min
0.18
0.16
0.14
0.12
0.10
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

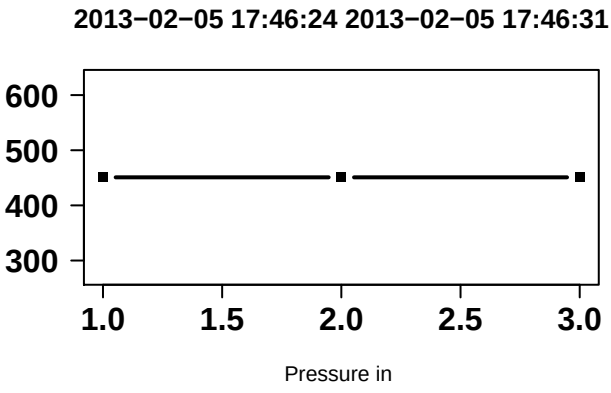

2013−02−05 13:48:45 2013−02−05 13:48:52
800
700
600
500
400
1.0
1.5
2.0
2.5
3.0
Pressure in

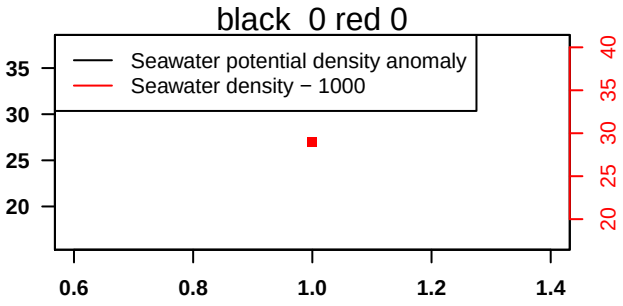

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

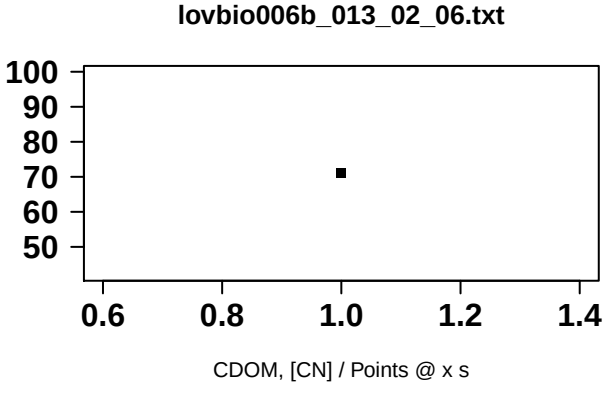

lovbio006b_013_01_06.txt
100
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

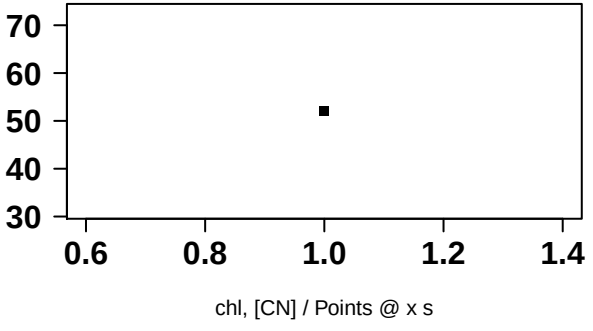

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

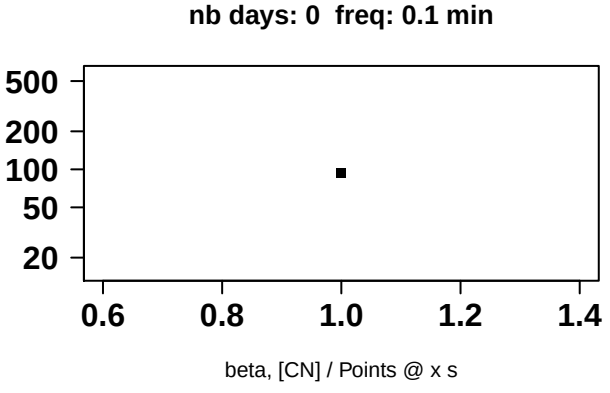

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

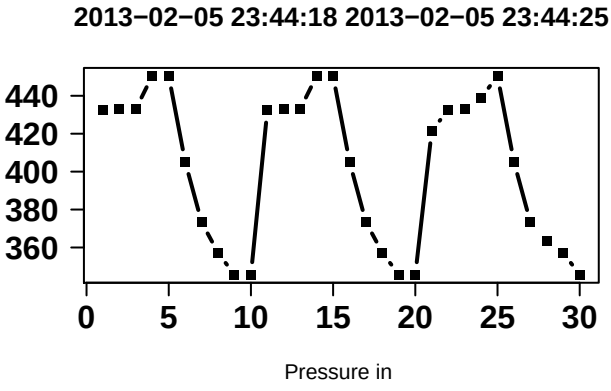

2013−02−05 17:46:24 2013−02−05 17:46:31
600
500
400
300
1.0
1.5
2.0
2.5
3.0
Pressure in

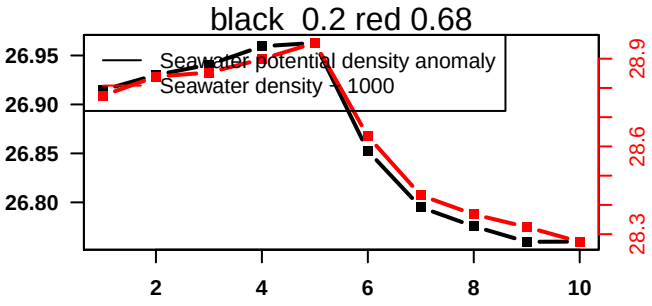

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

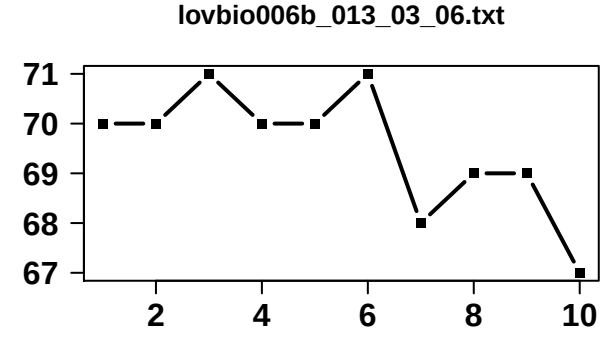

lovbio006b_013_02_06.txt
100
90
80
70
60
50
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

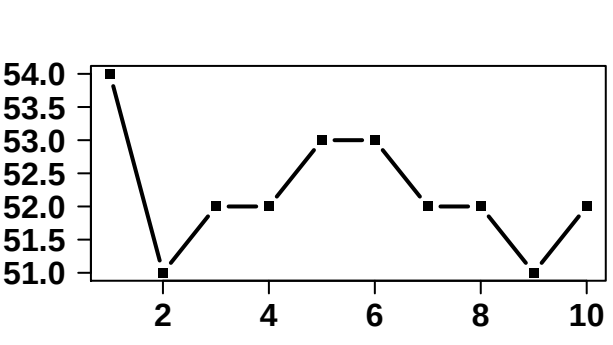

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

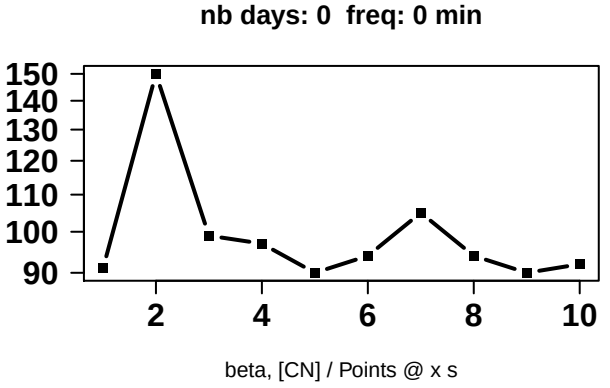

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

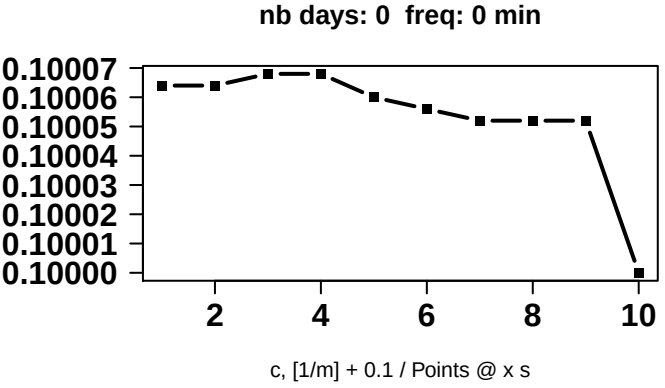

2013−02−05 23:44:18 2013−02−05 23:44:25
440
420
400
380
360
0
5
10
15
20
25
30
Pressure in

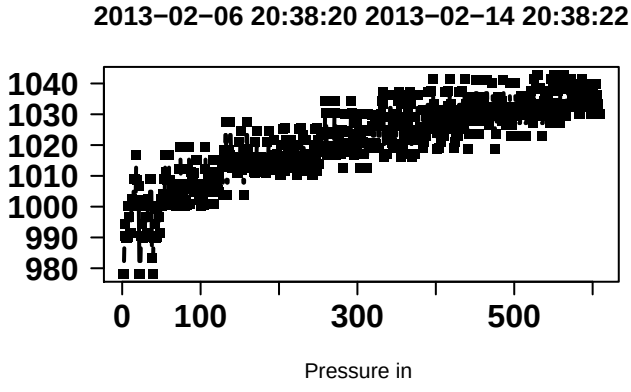

black 0.2 red 0.68
Seawater potential density anomaly
Seawater density − 1000
26.95
26.90
26.85
26.80
28.9
28.6
28.3
2
4
6
8
10

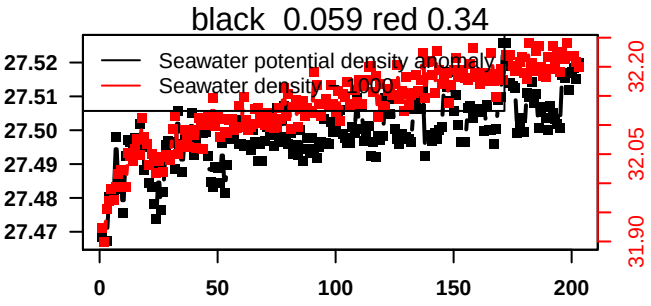

lovbio006b_013_03_06.txt
71
70
69
68
67
2
4
6
8
10
CDOM, [CN] / Points @ x s

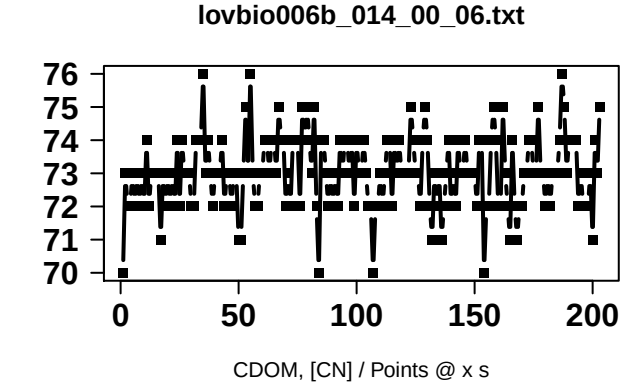

54.0
53.5
53.0
52.5
52.0
51.5
51.0
2
4
6
8
10
chl, [CN] / Points @ x s

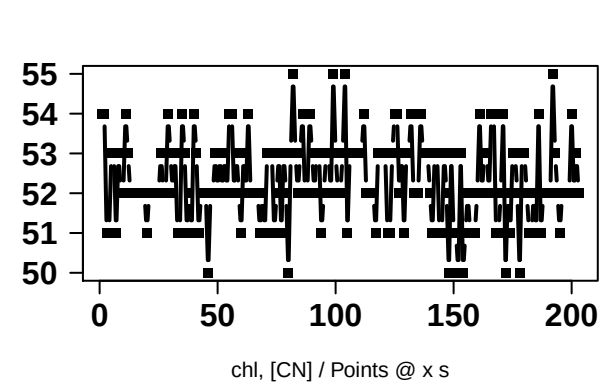

nb days: 0 freq: 0 min
150
140
130
120
110
100
90
2
4
6
8
10
beta, [CN] / Points @ x s

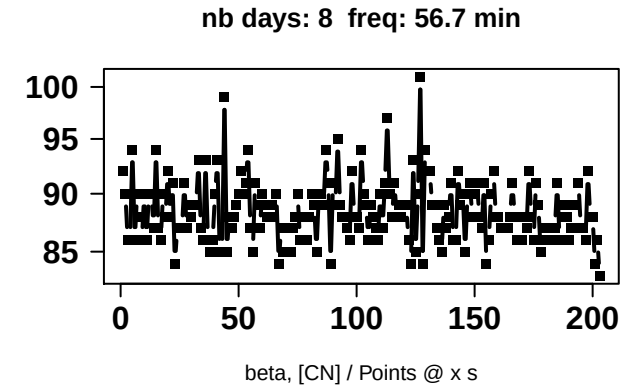

nb days: 0 freq: 0 min
0.10007
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

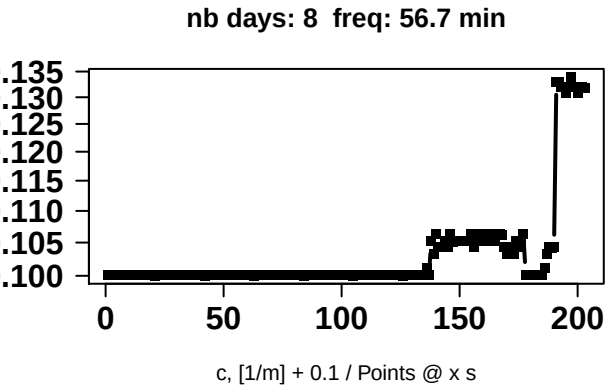

2013−02−06 20:38:20 2013−02−14 20:38:22
1040
1030
1020
1010
1000
990
980
0
100
300
500
Pressure in

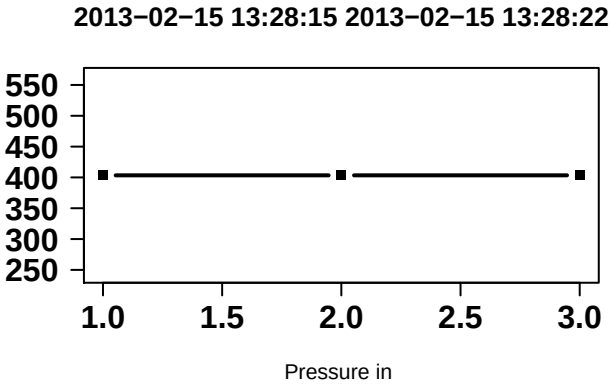

black 0.059 red 0.34
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
27.47
32.20
32.05
31.90
0
50
100
150
200

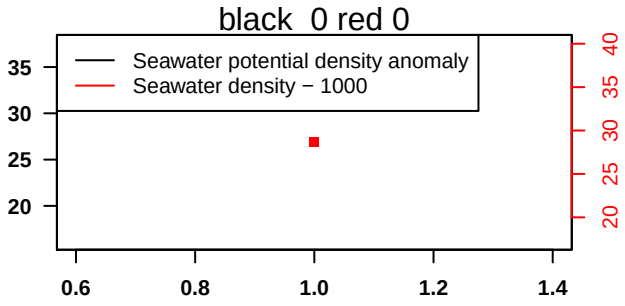

lovbio006b_014_00_06.txt
76
75
74
73
72
71
70
0
50
100
150
200
CDOM, [CN] / Points @ x s

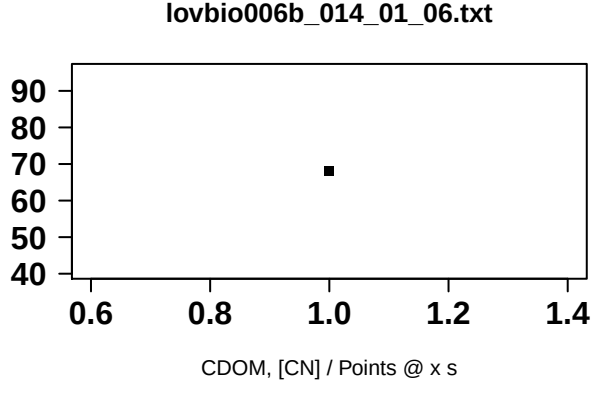

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

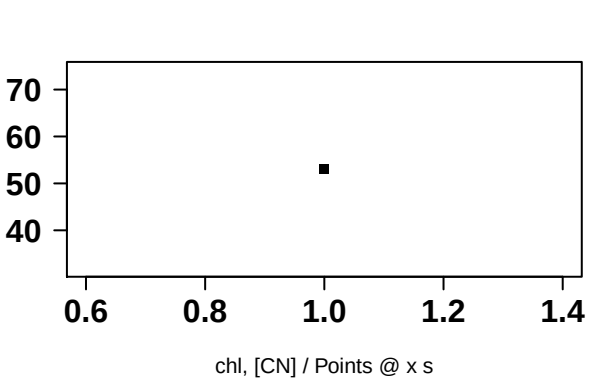

nb days: 8 freq: 56.7 min
100
95
90
85
0
50
100
150
200
beta, [CN] / Points @ x s

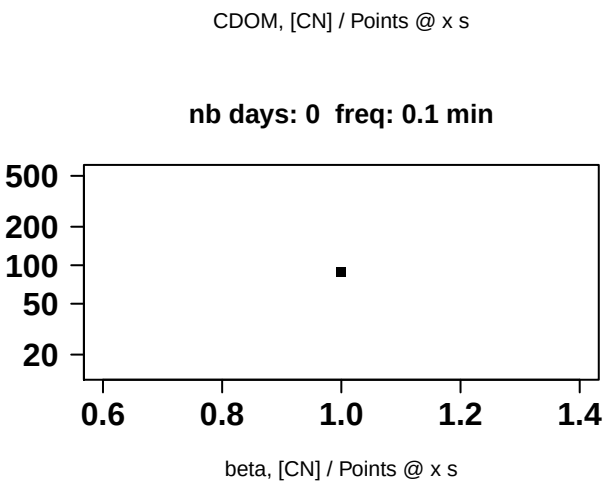

nb days: 8 freq: 56.7 min
0.135
0.130
0.125
0.120
0.115
0.110
0.105
0.100
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

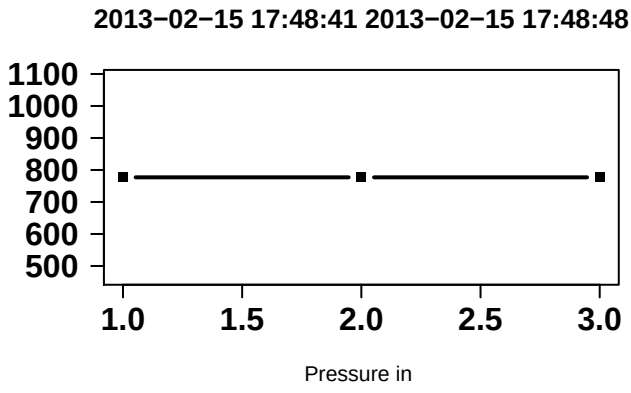

2013−02−15 13:28:15 2013−02−15 13:28:22
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

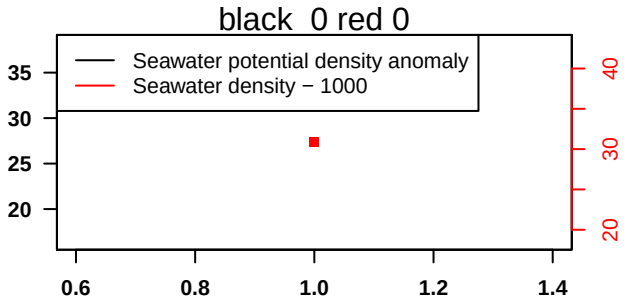

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

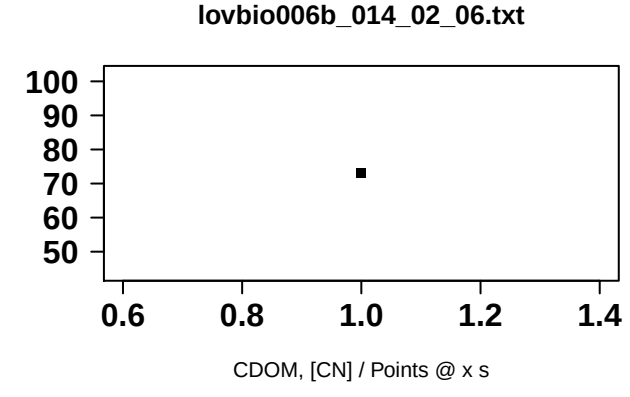

lovbio006b_014_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

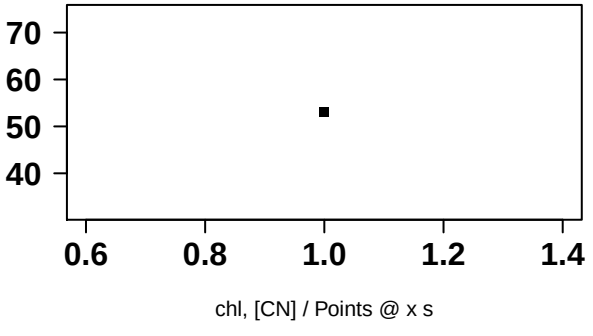

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

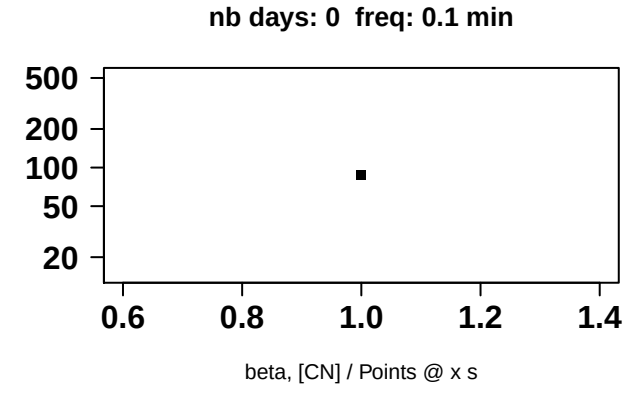

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

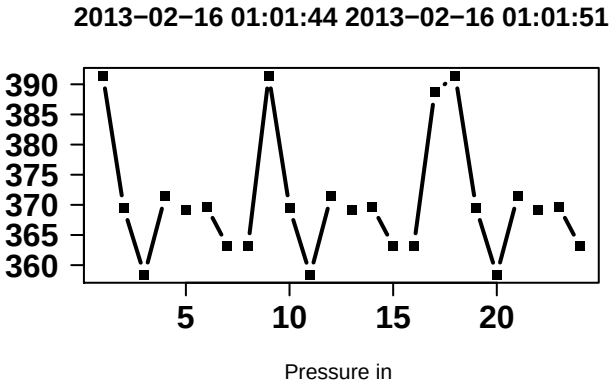

2013−02−15 17:48:41 2013−02−15 17:48:48
1100
1000
900
800
700
600
500
1.0
1.5
2.0
2.5
3.0
Pressure in

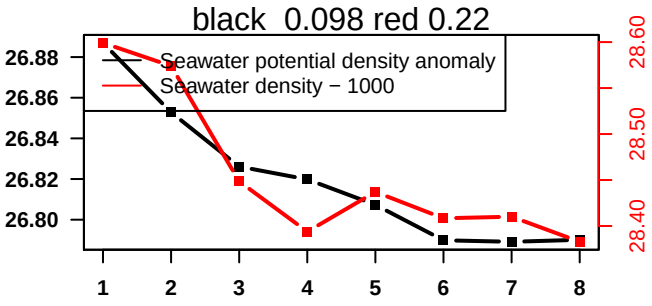

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

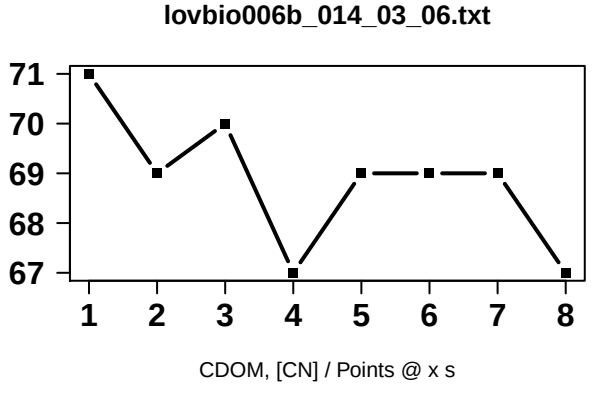

lovbio006b_014_02_06.txt
100
90
80
70
60
50
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

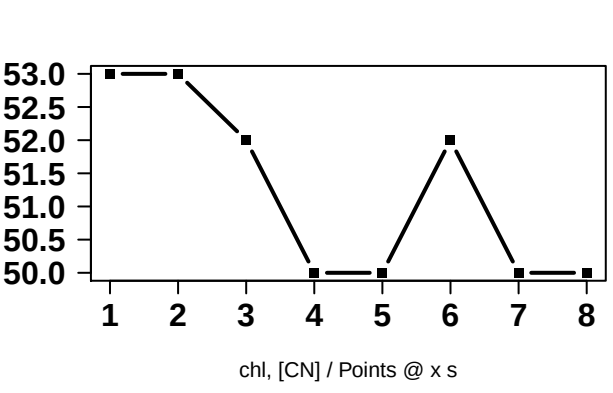

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

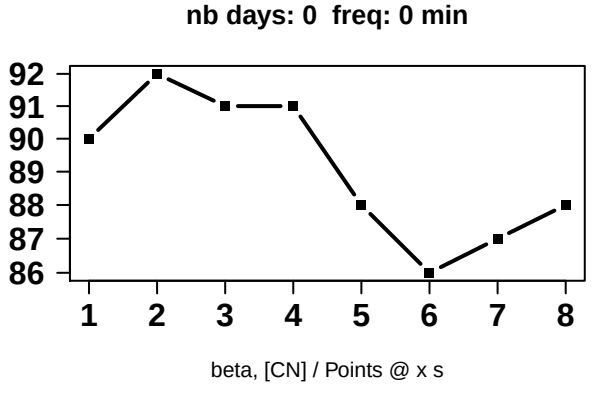

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

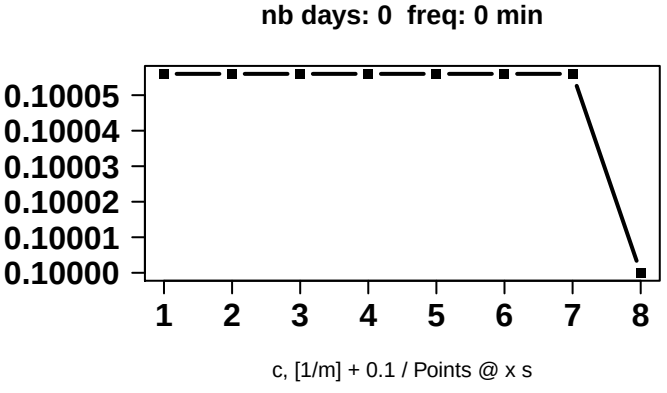

2013−02−16 01:01:44 2013−02−16 01:01:51
390
385
380
375
370
365
360
5
10
15
20
Pressure in

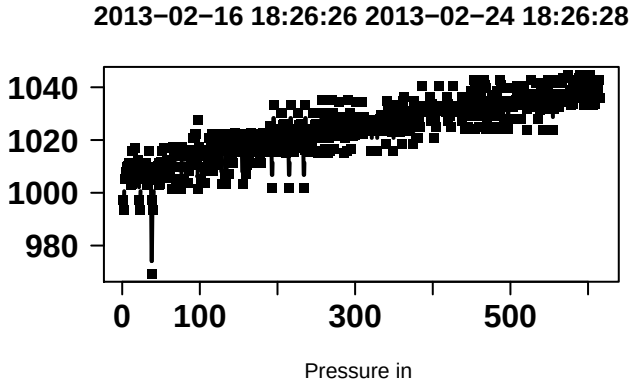

black 0.098 red 0.22
Seawater potential density anomaly
Seawater density − 1000
26.88
26.86
26.84
26.82
26.80
28.60
28.50
28.40
1
2
3
4
5
6
7
8

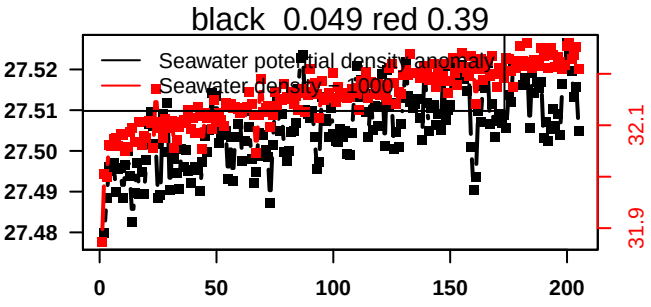

lovbio006b_014_03_06.txt
71
70
69
68
67
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

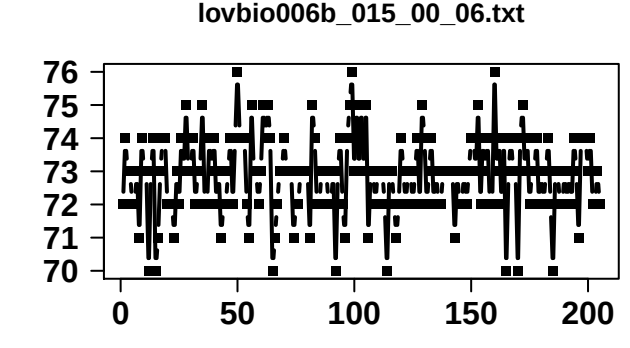

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

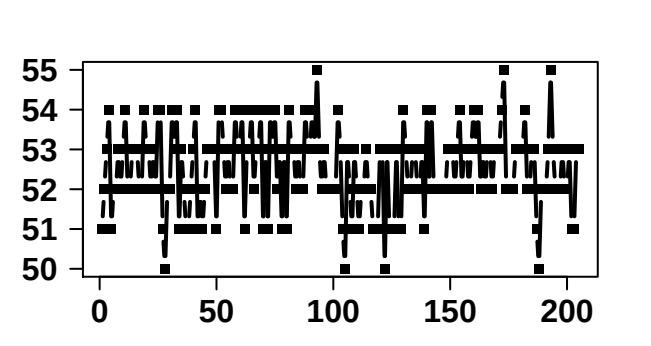

nb days: 0 freq: 0 min
92
91
90
89
88
87
86
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

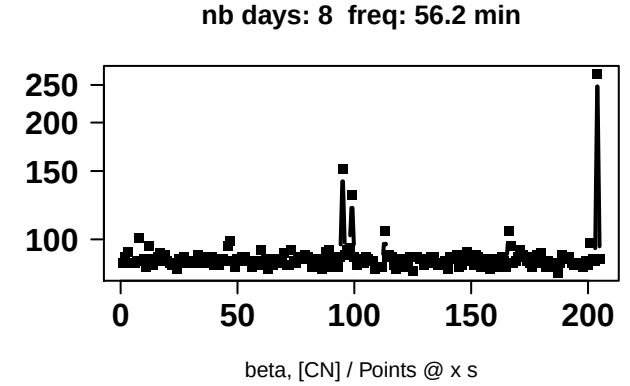

nb days: 0 freq: 0 min
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

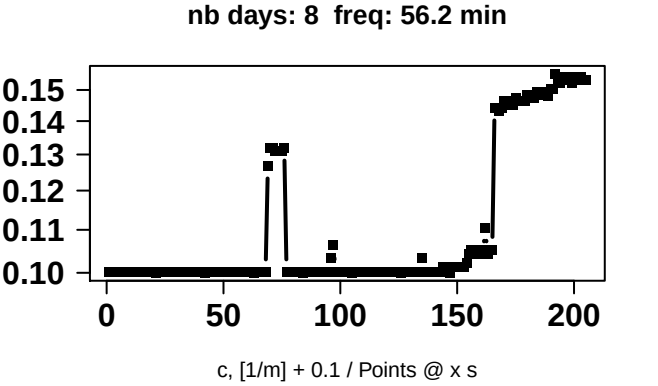

2013−02−16 18:26:26 2013−02−24 18:26:28
1040
1020
1000
980
0
100
300
500
Pressure in

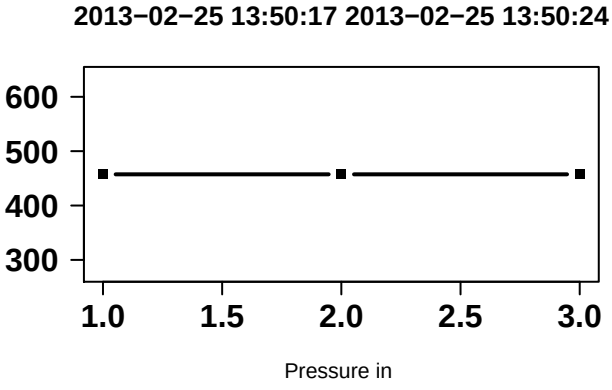

black 0.049 red 0.39
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
32.1
31.9
0
50
100
150
200

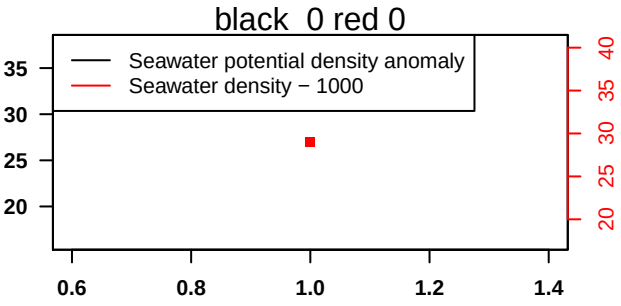

lovbio006b_015_00_06.txt
76
75
74
73
72
71
70
0
50
100
150
200
CDOM, [CN] / Points @ x s

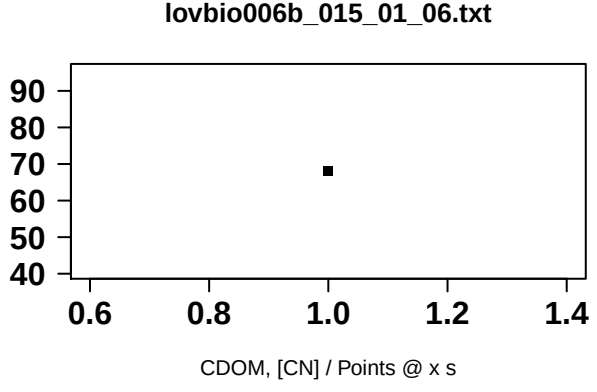

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

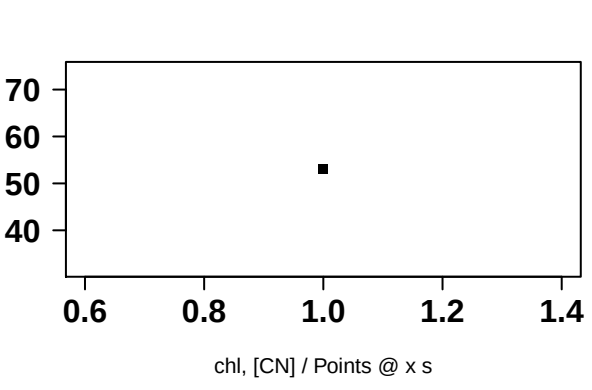

nb days: 8 freq: 56.2 min
250
200
150
100
0
50
100
150
200
beta, [CN] / Points @ x s

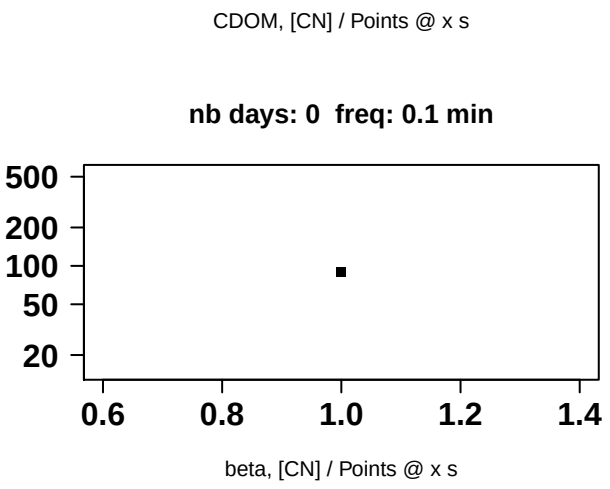

nb days: 8 freq: 56.2 min
0.15
0.14
0.13
0.12
0.11
0.10
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

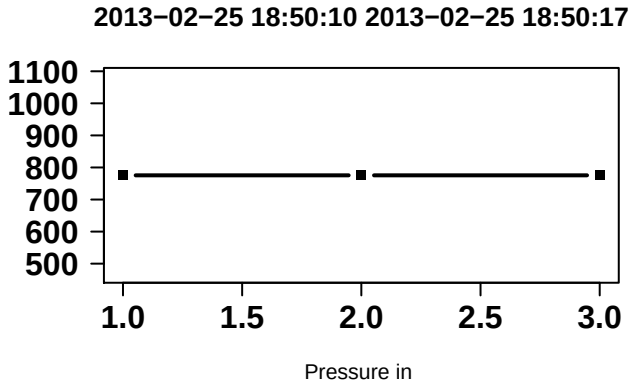

2013−02−25 13:50:17 2013−02−25 13:50:24
600
500
400
300
1.0
1.5
2.0
2.5
3.0
Pressure in

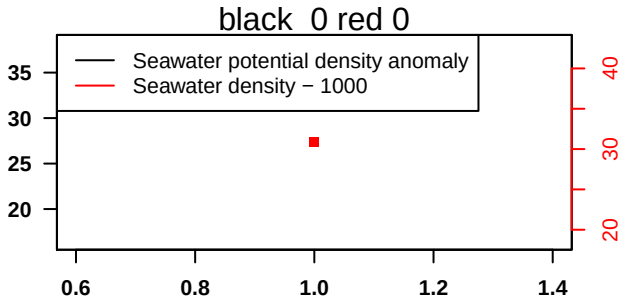

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

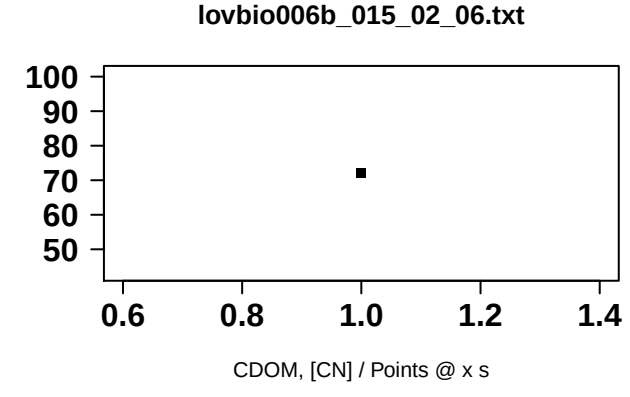

lovbio006b_015_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

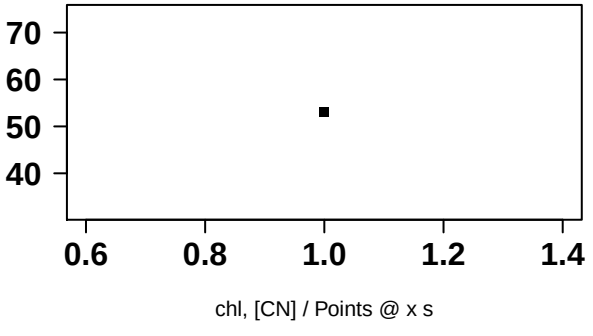

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

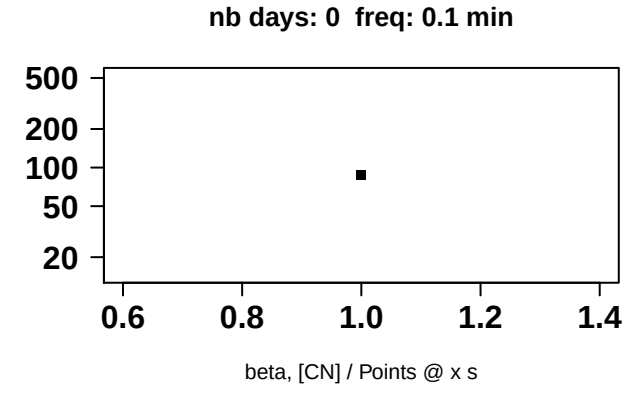

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

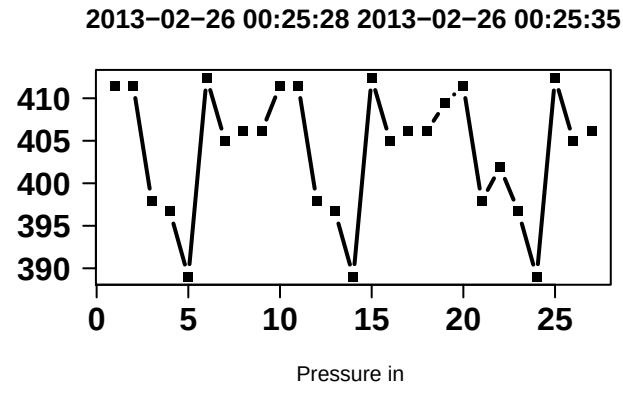

2013−02−25 18:50:10 2013−02−25 18:50:17
1100
1000
900
800
700
600
500
1.0
1.5
2.0
2.5
3.0
Pressure in

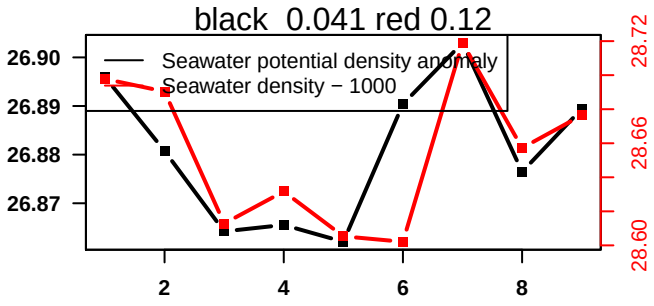

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

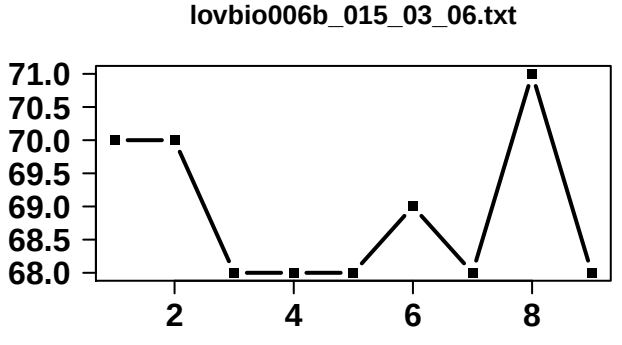

lovbio006b_015_02_06.txt
100
90
80
70
60
50
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

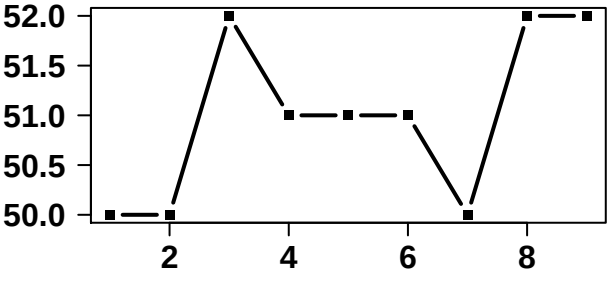

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

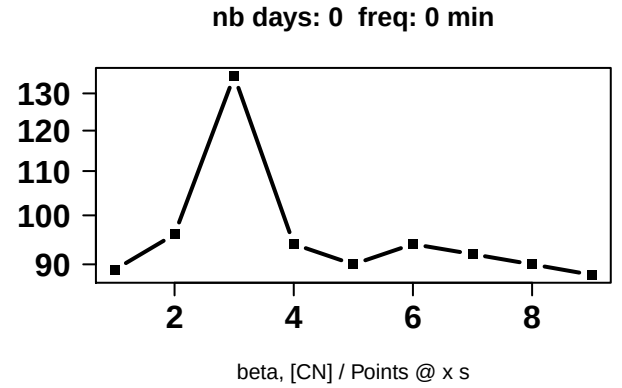

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

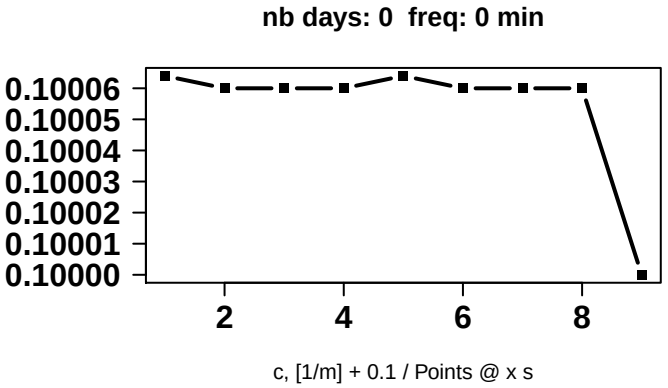

2013−02−26 00:25:28 2013−02−26 00:25:35
410
405
400
395
390
0
5
10
15
20
25
Pressure in

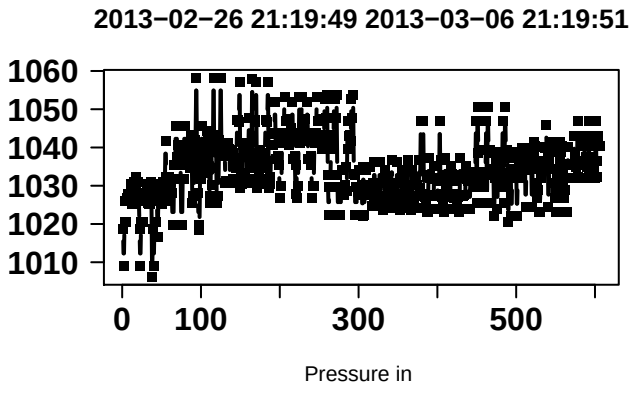

black 0.041 red 0.12
Seawater potential density anomaly
Seawater density − 1000
26.90
26.89
26.88
26.87
28.72
28.66
28.60
2
4
6
8

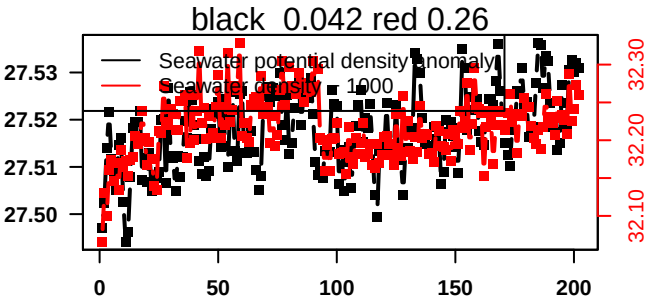

lovbio006b_015_03_06.txt
71.0
70.5
70.0
69.5
69.0
68.5
68.0
2
4
6
8
CDOM, [CN] / Points @ x s

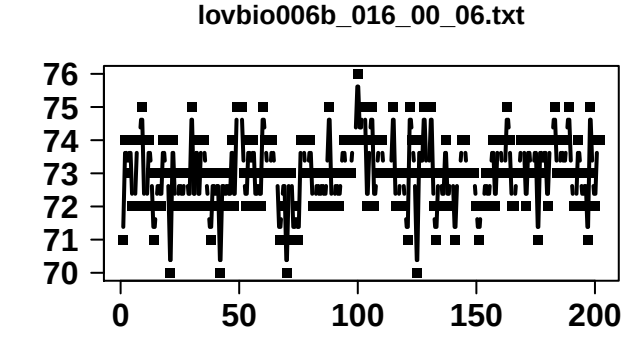

52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

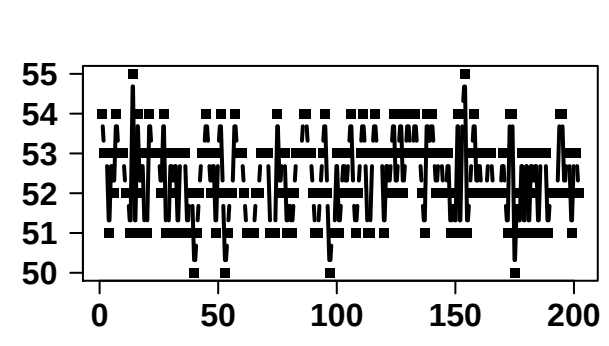

nb days: 0 freq: 0 min
130
120
110
100
90
2
4
6
8
beta, [CN] / Points @ x s

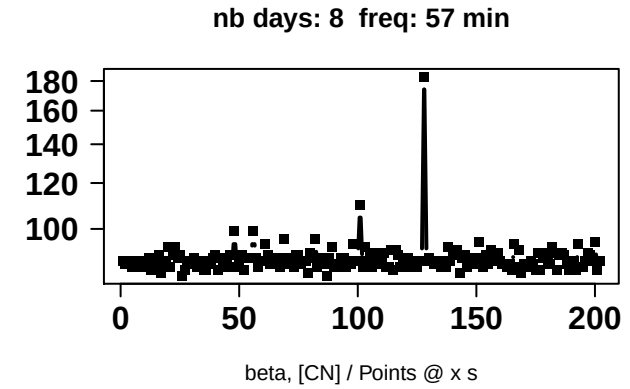

nb days: 0 freq: 0 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

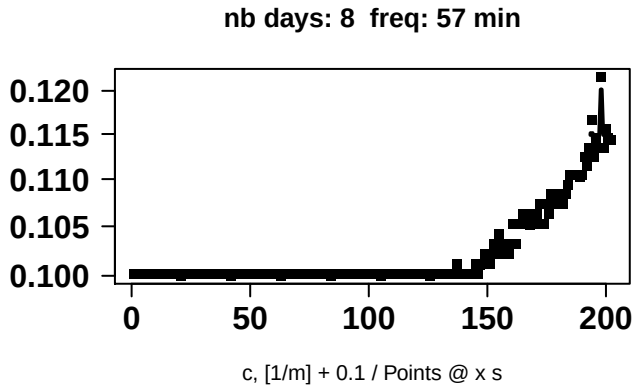

2013−02−26 21:19:49 2013−03−06 21:19:51
1060
1050
1040
1030
1020
1010
0
100
300
500
Pressure in

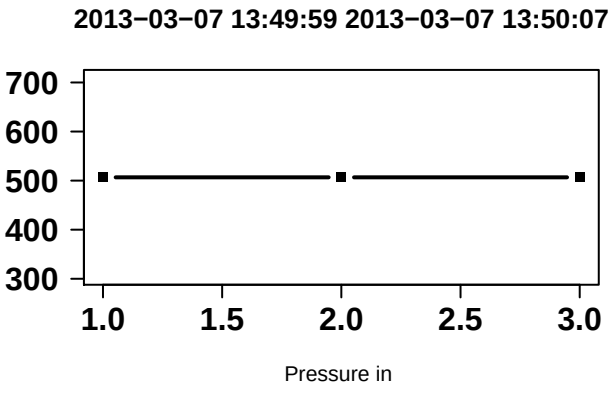

black 0.042 red 0.26
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
32.30
32.20
32.10
0
50
100
150
200

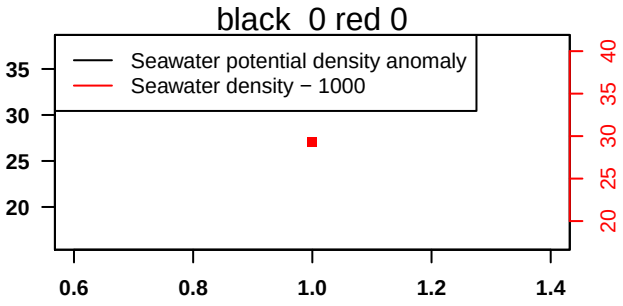

lovbio006b_016_00_06.txt
76
75
74
73
72
71
70
0
50
100
150
200
CDOM, [CN] / Points @ x s

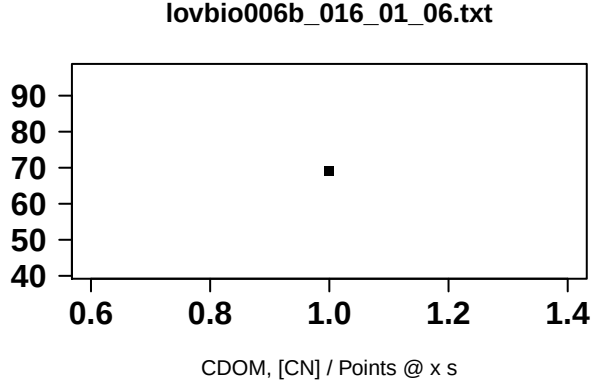

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

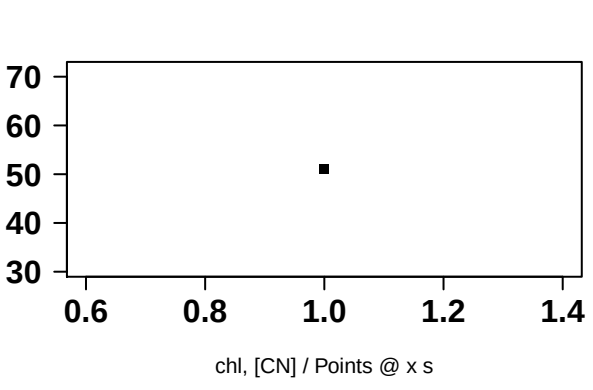

nb days: 8 freq: 57 min
180
160
140
120
100
0
50
100
150
200
beta, [CN] / Points @ x s

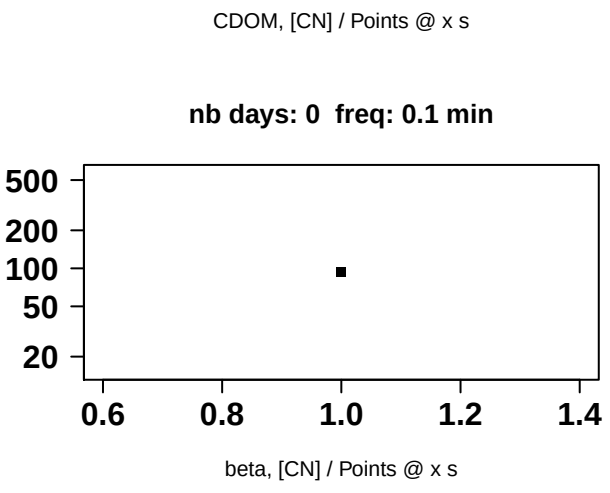

nb days: 8 freq: 57 min
0.120
0.115
0.110
0.105
0.100
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

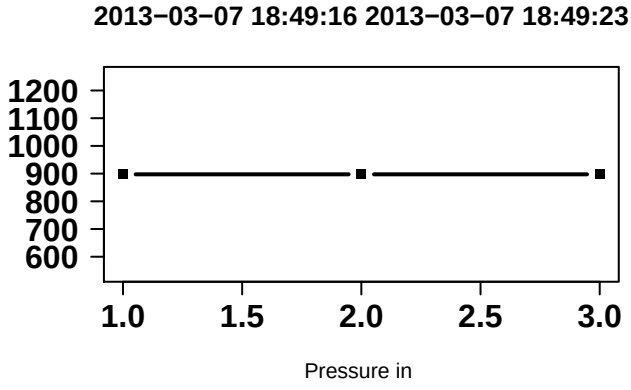

2013−03−07 13:49:59 2013−03−07 13:50:07
700
600
500
400
300
1.0
1.5
2.0
2.5
3.0
Pressure in

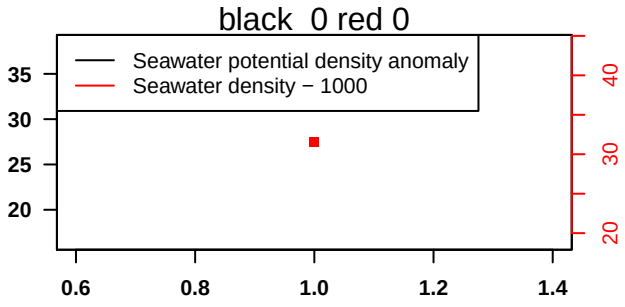

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

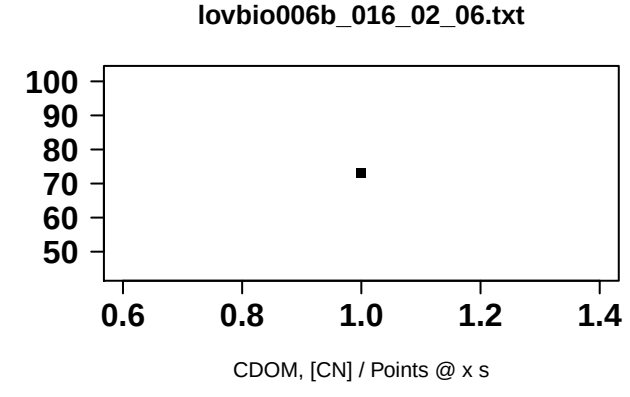

lovbio006b_016_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

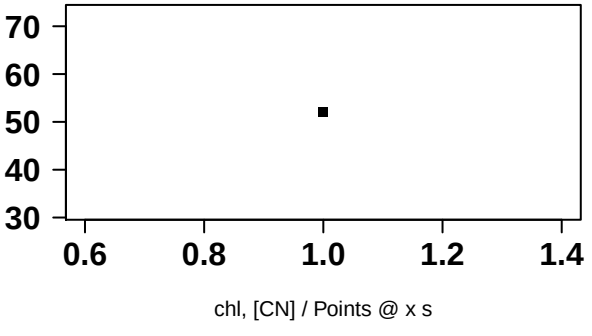

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

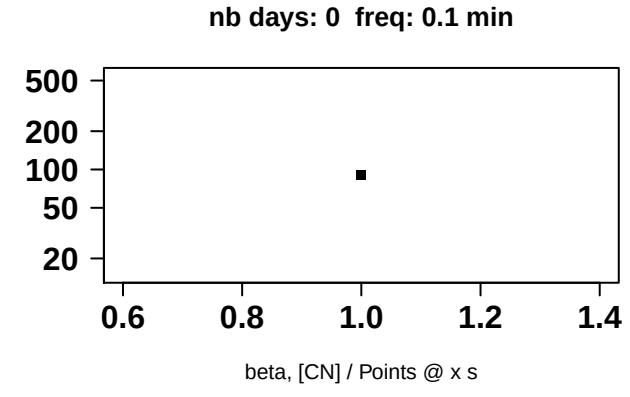

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

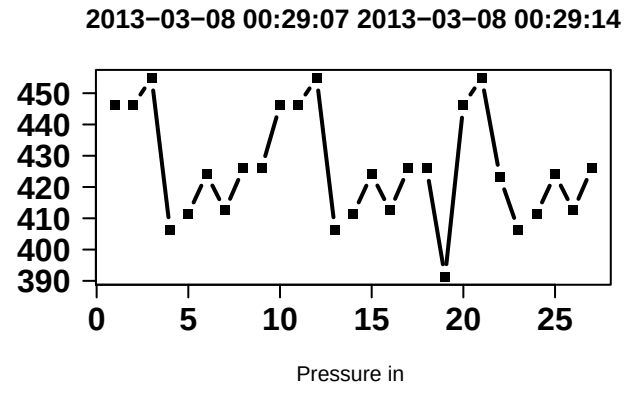

2013−03−07 18:49:16 2013−03−07 18:49:23
1200
1100
1000
900
800
700
600
1.0
1.5
2.0
2.5
3.0
Pressure in

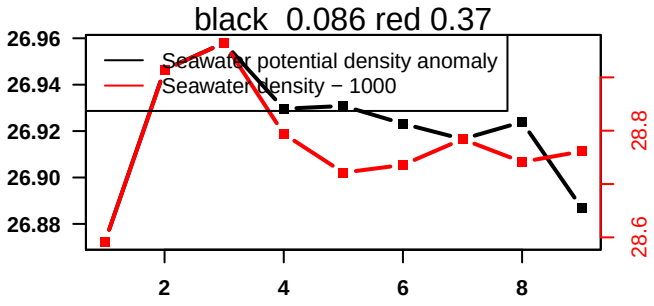

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
40
30
20
0.6
0.8
1.0
1.2
1.4

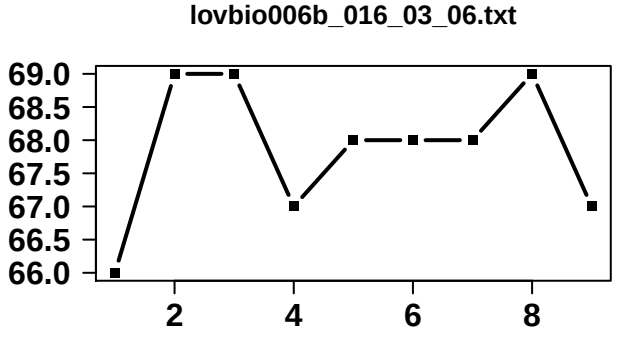

lovbio006b_016_02_06.txt
100
90
80
70
60
50
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

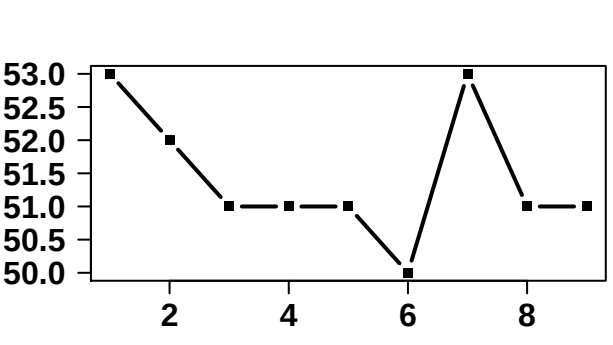

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

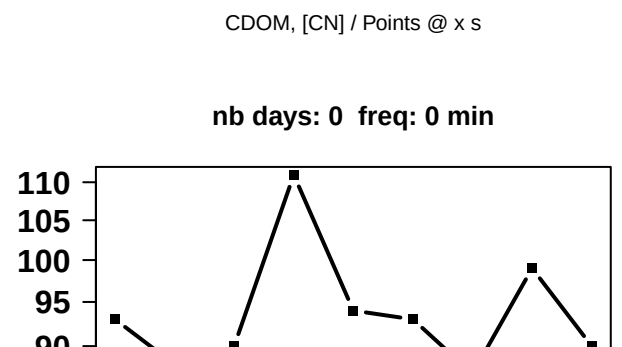

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

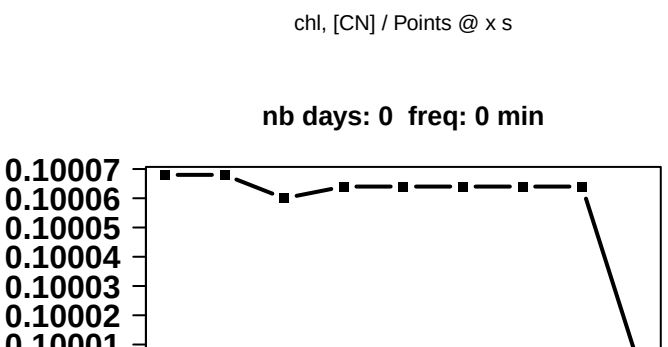

2013−03−08 00:29:07 2013−03−08 00:29:14
450
440
430
420
410
400
390
0
5
10
15
20
25
Pressure in

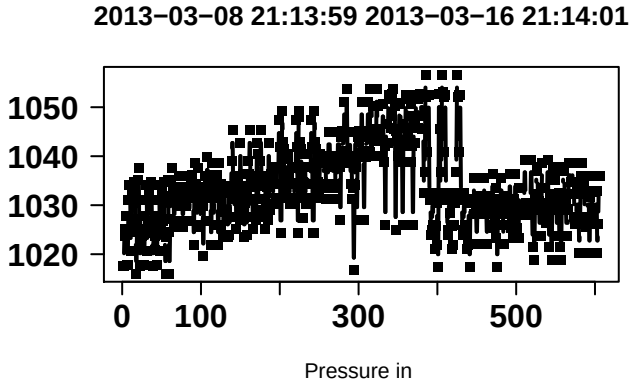

black 0.086 red 0.37
Seawater potential density anomaly
Seawater density − 1000
26.96
26.94
26.92
26.90
26.88
28.8
28.6
2
4
6
8

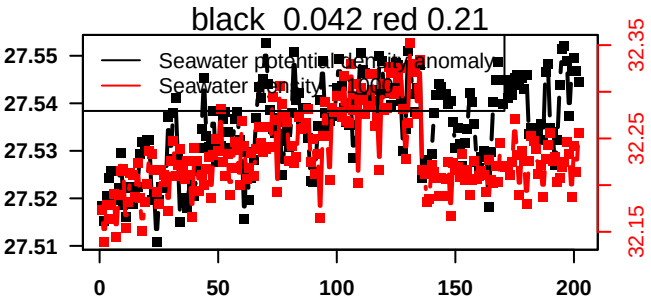

lovbio006b_016_03_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
2
4
6
8
CDOM, [CN] / Points @ x s

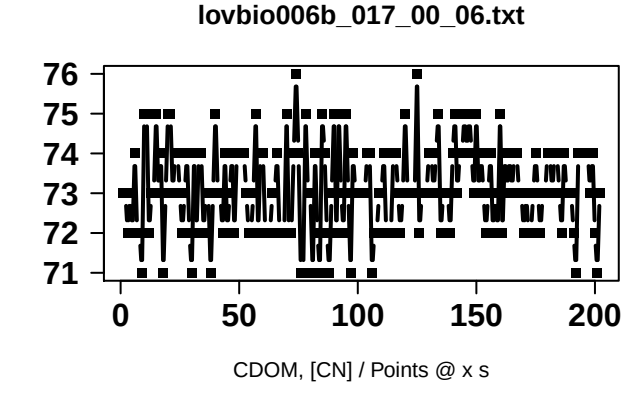

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

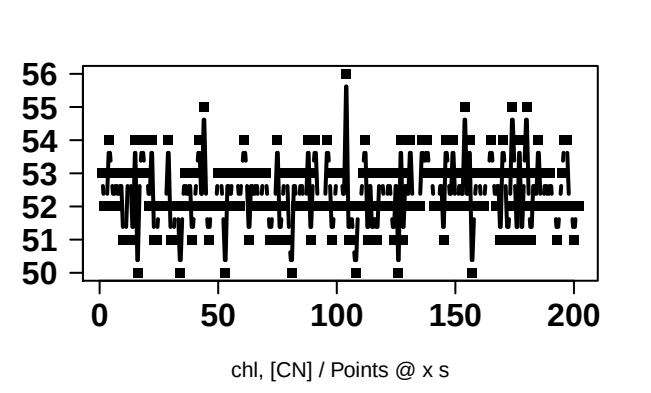

nb days: 0 freq: 0 min
110
105
100
95
90
2
4
6
8
beta, [CN] / Points @ x s

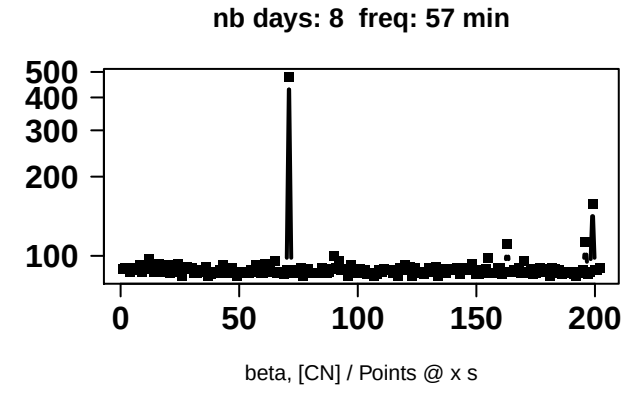

nb days: 0 freq: 0 min
0.10007
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

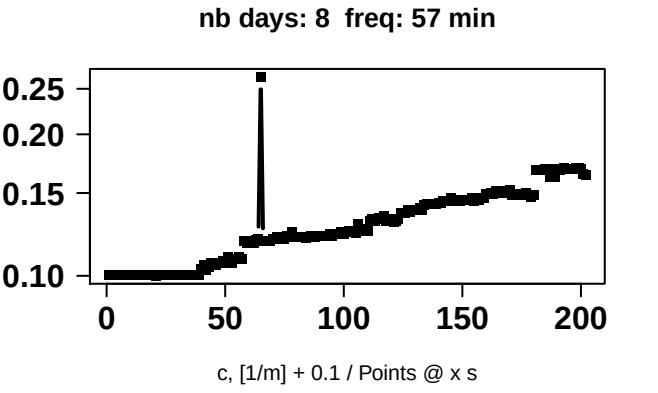

2013−03−08 21:13:59 2013−03−16 21:14:01
1050
1040
1030
1020
0
100
300
500
Pressure in

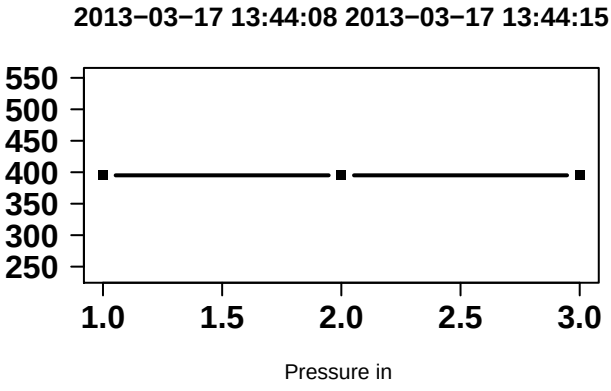

black 0.042 red 0.21
Seawater potential density anomaly
27.55
27.54
27.53
27.52
27.51
32.35
32.25
32.15
0
50
100
150
200

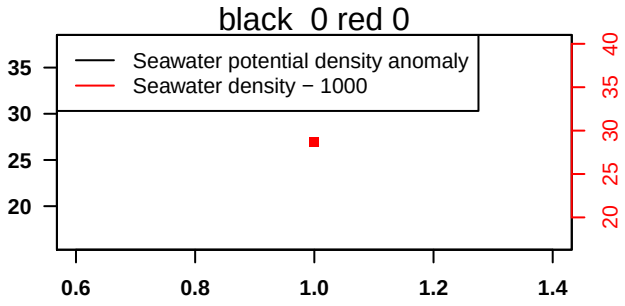

lovbio006b_017_00_06.txt
76
75
74
73
72
71
0
50
100
150
200
CDOM, [CN] / Points @ x s

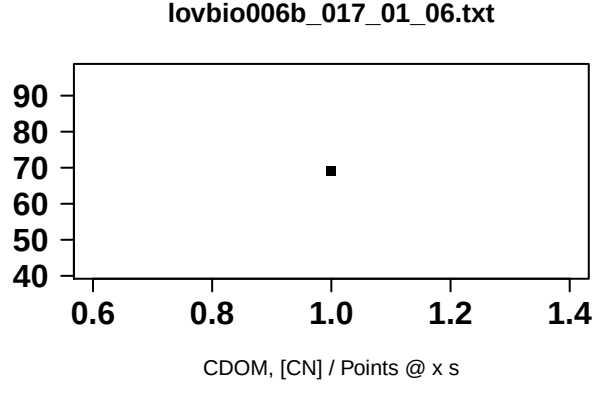

56
55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

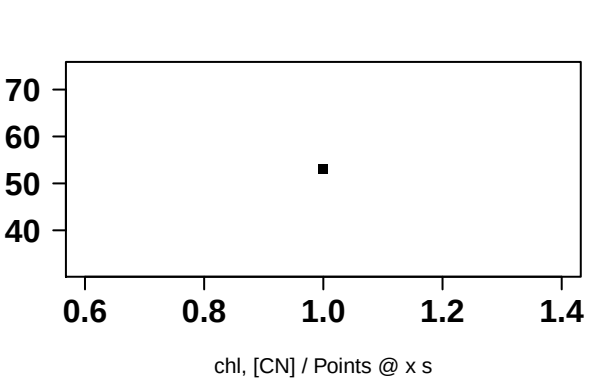

nb days: 8 freq: 57 min
500
400
300
200
100
0
50
100
150
200
beta, [CN] / Points @ x s

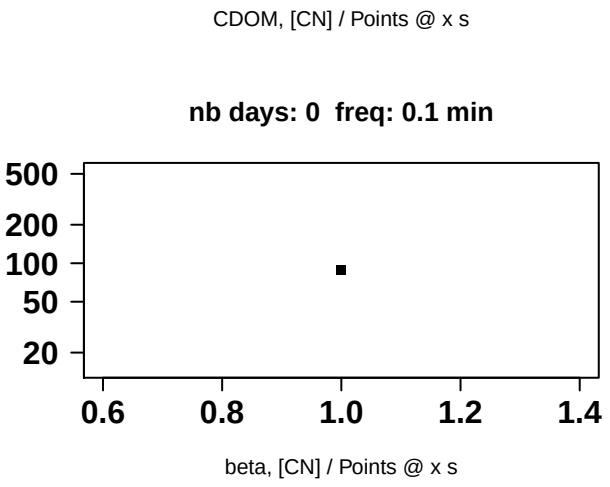

nb days: 8 freq: 57 min
0.25
0.20
0.15
0.10
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

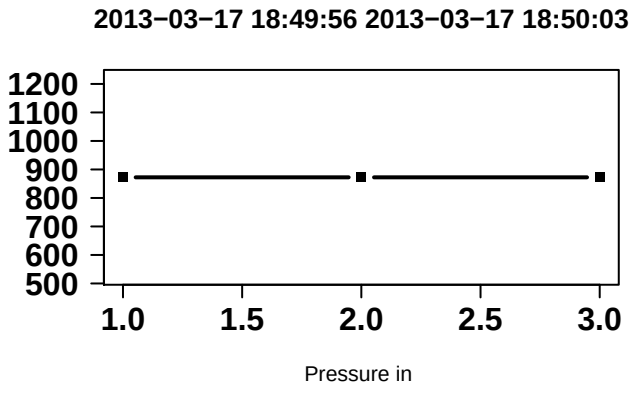

2013−03−17 13:44:08 2013−03−17 13:44:15
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

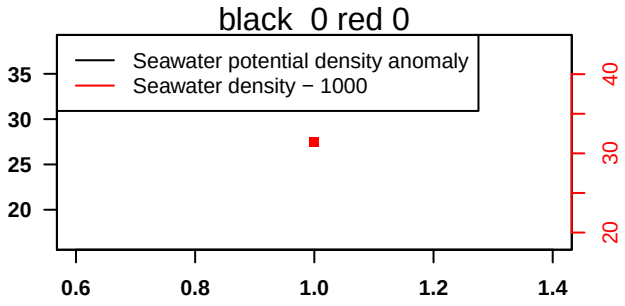

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

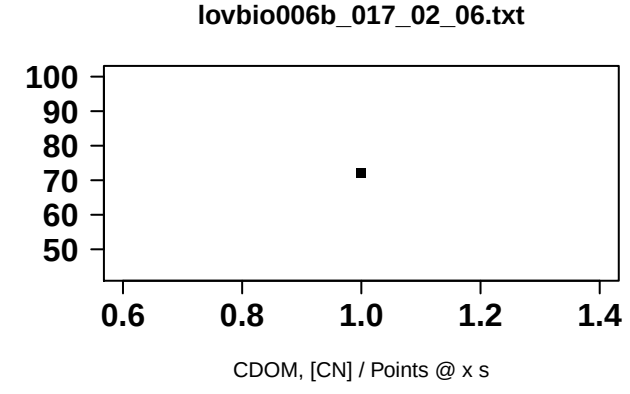

lovbio006b_017_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

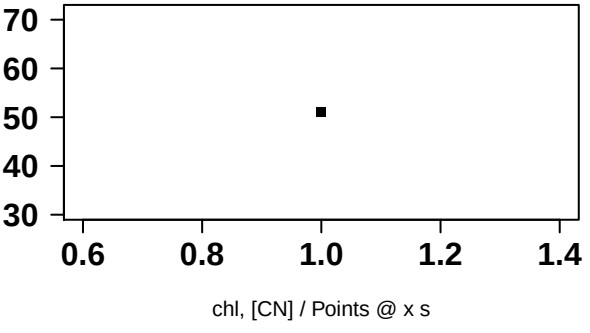

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

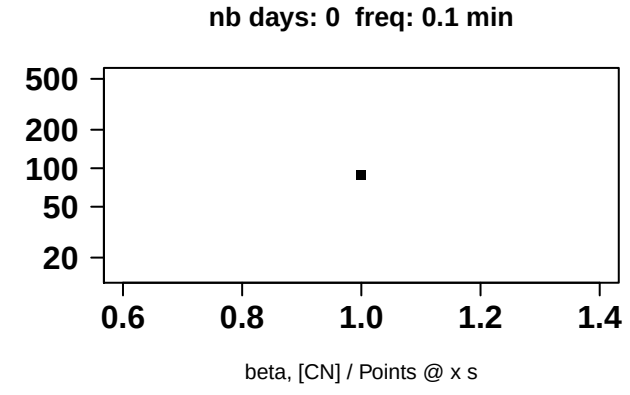

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

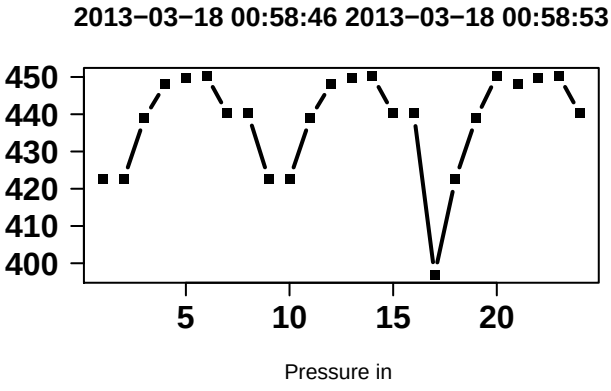

2013−03−17 18:49:56 2013−03−17 18:50:03
1200
1100
1000
900
800
700
600
500
1.0
1.5
2.0
2.5
3.0
Pressure in

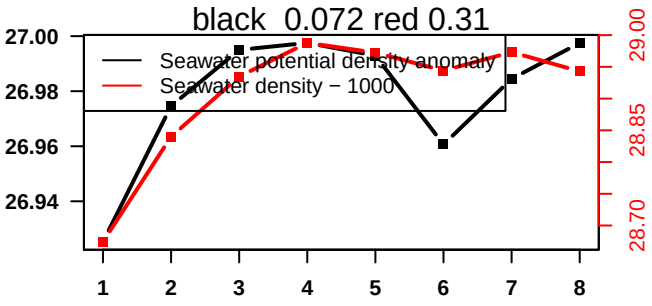

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

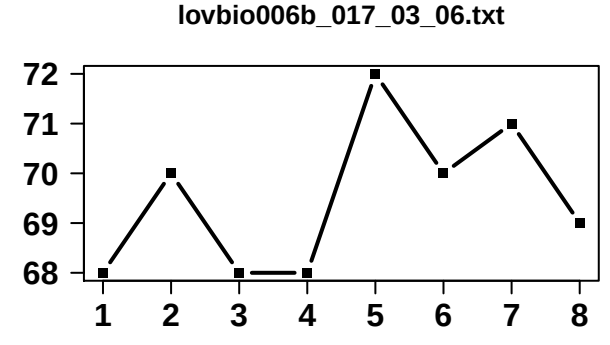

lovbio006b_017_02_06.txt
100
90
80
70
60
50
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

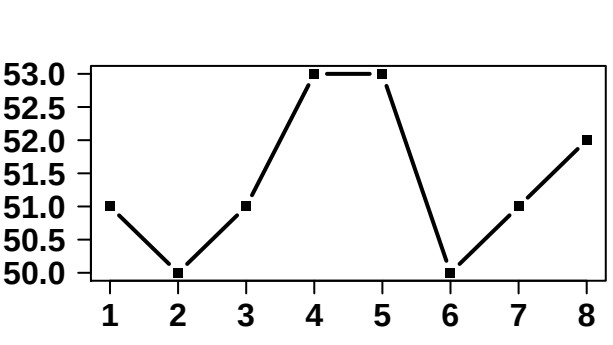

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

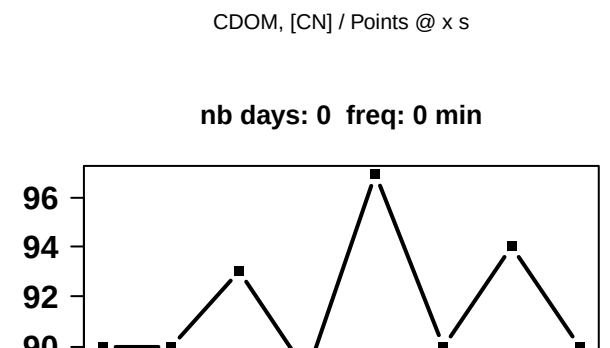

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

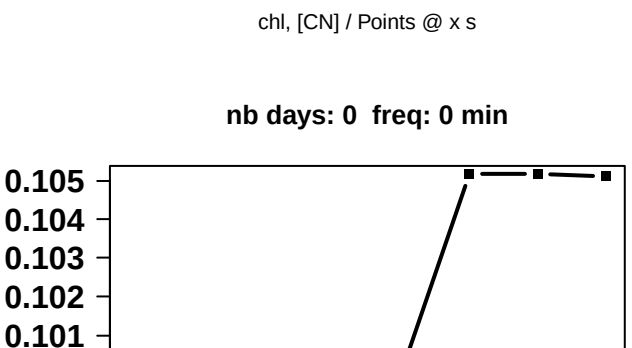

2013−03−18 00:58:46 2013−03−18 00:58:53
450
440
430
420
410
400
5
10
15
20
Pressure in

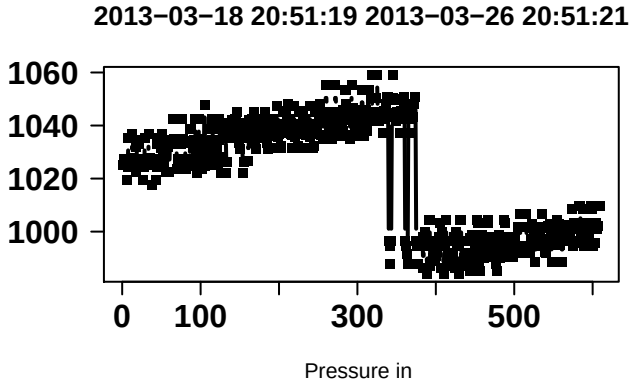

black 0.072 red 0.31
Seawater potential density anomaly
Seawater density − 1000
27.00
26.98
26.96
26.94
29.00
28.85
28.70
1
2
3
4
5
6
7
8

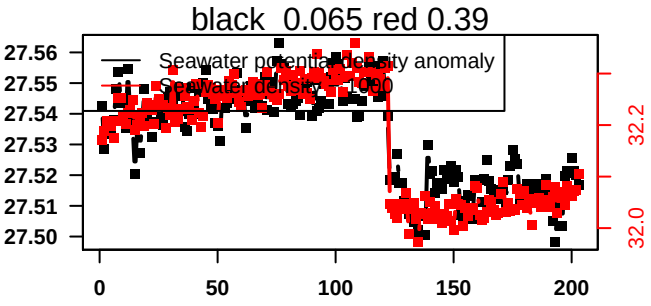

lovbio006b_017_03_06.txt
72
71
70
69
68
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

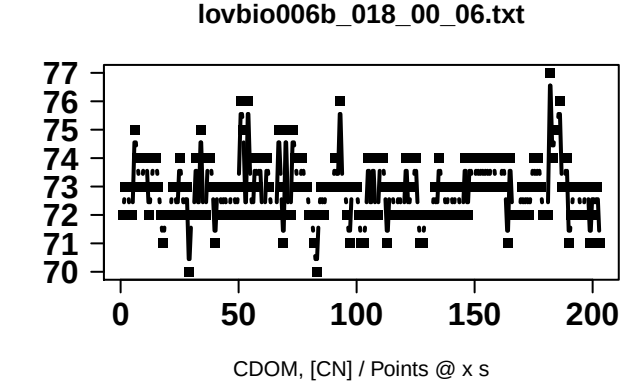

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

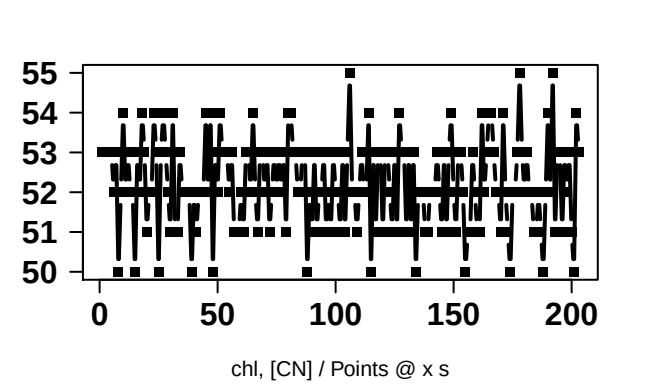

nb days: 0 freq: 0 min
96
94
92
90
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

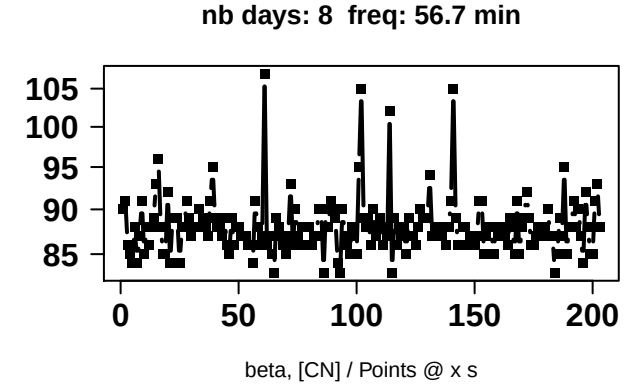

nb days: 0 freq: 0 min
0.105
0.104
0.103
0.102
0.101
0.100
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

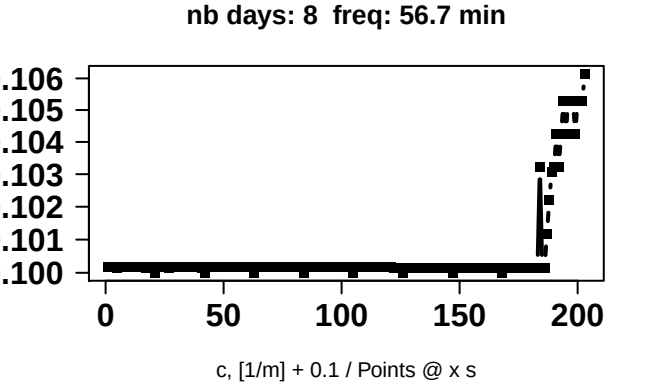

2013−03−18 20:51:19 2013−03−26 20:51:21
1060
1040
1020
1000
0
100
300
500
Pressure in

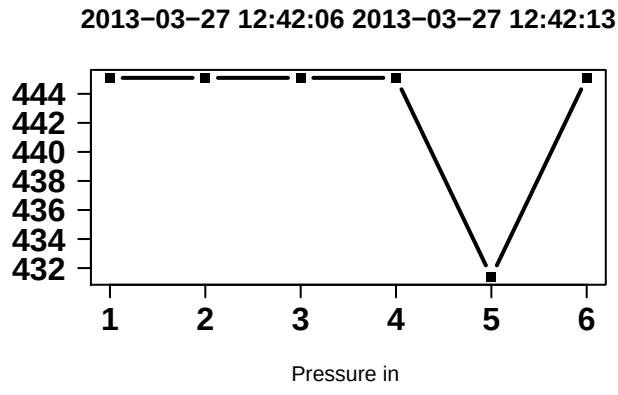

black 0.065 red 0.39
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
27.51
27.50
32.2
32.0
0
50
100
150
200

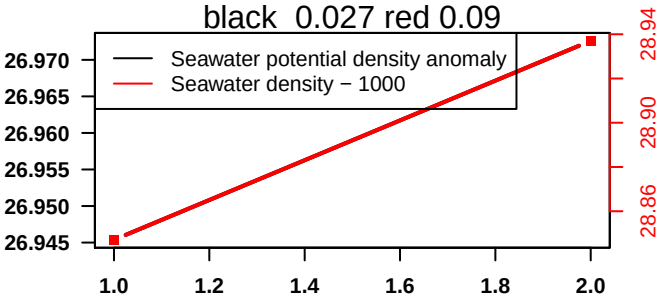

lovbio006b_018_00_06.txt
77
76
75
74
73
72
71
70
0
50
100
150
200
CDOM, [CN] / Points @ x s

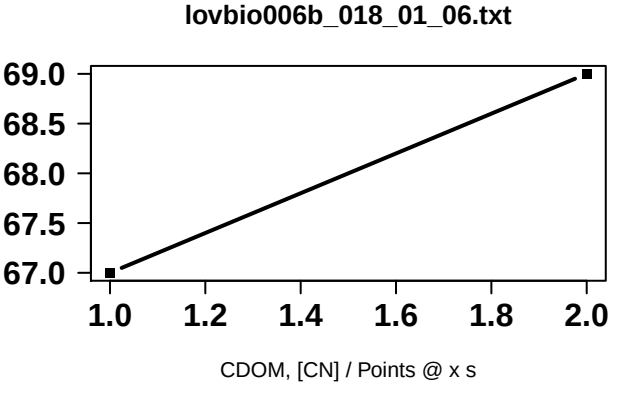

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

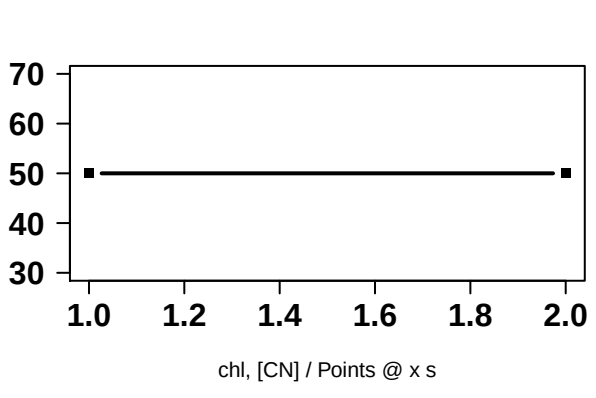

nb days: 8 freq: 56.7 min
105
100
95
90
85
0
50
100
150
200
beta, [CN] / Points @ x s

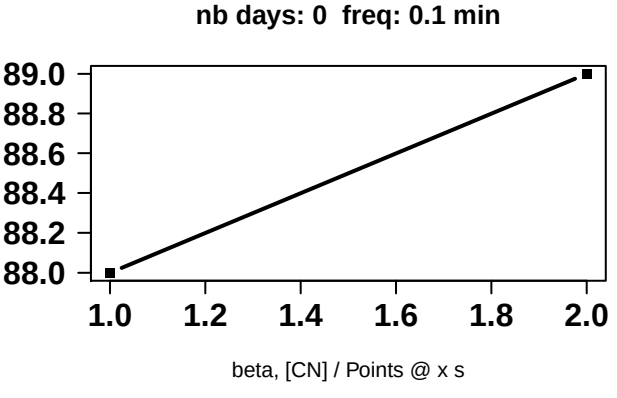

nb days: 8 freq: 56.7 min
0.106
0.105
0.104
0.103
0.102
0.101
0.100
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

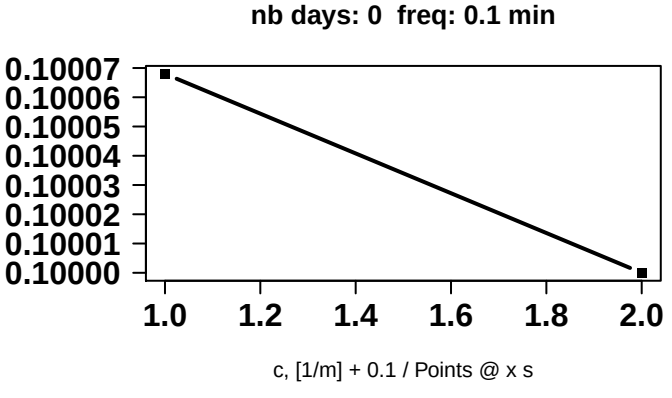

2013−03−27 12:42:06 2013−03−27 12:42:13
444
442
440
438
436
434
432
1
2
3
4
5
6
Pressure in

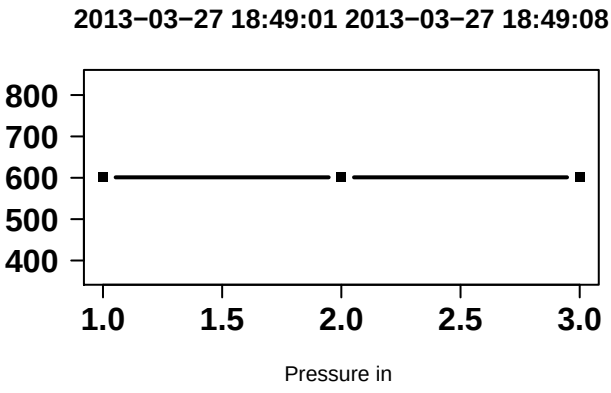

black 0.027 red 0.09
Seawater potential density anomaly
Seawater density − 1000
26.970
26.965
26.960
26.955
26.950
26.945
28.94
28.90
28.86
1.0
1.2
1.4
1.6
1.8
2.0

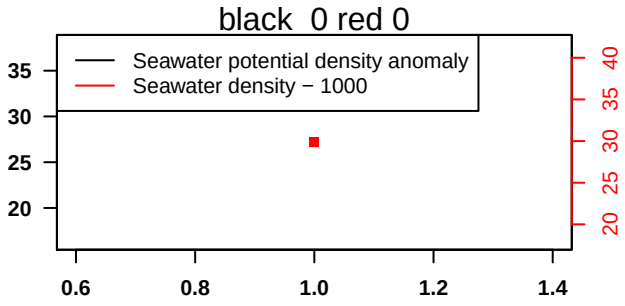

lovbio006b_018_01_06.txt
69.0
68.5
68.0
67.5
67.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

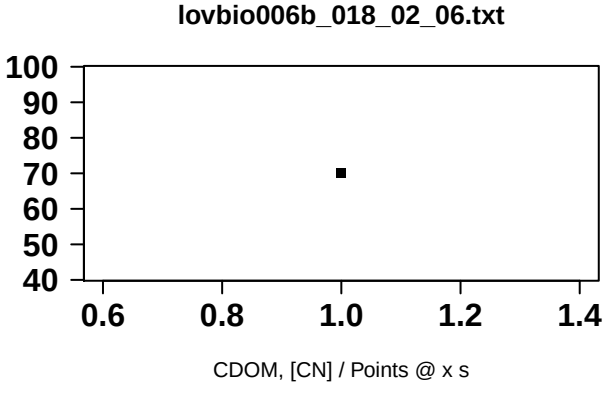

70
60
50
40
30
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

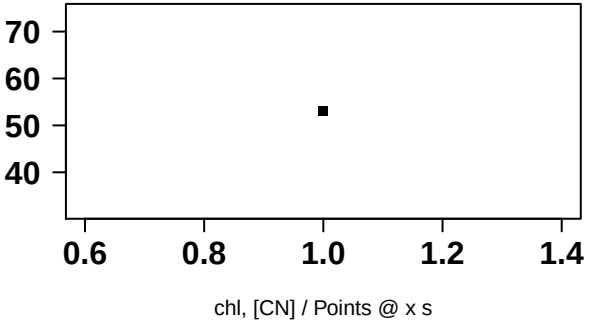

nb days: 0 freq: 0.1 min
89.0
88.8
88.6
88.4
88.2
88.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

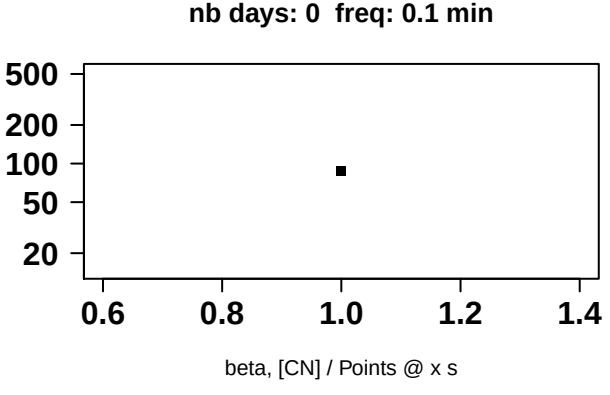

nb days: 0 freq: 0.1 min
0.10007
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

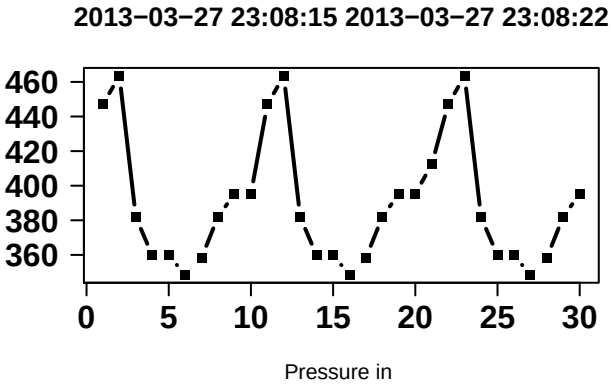

2013−03−27 18:49:01 2013−03−27 18:49:08
800
700
600
500
400
1.0
1.5
2.0
2.5
3.0
Pressure in

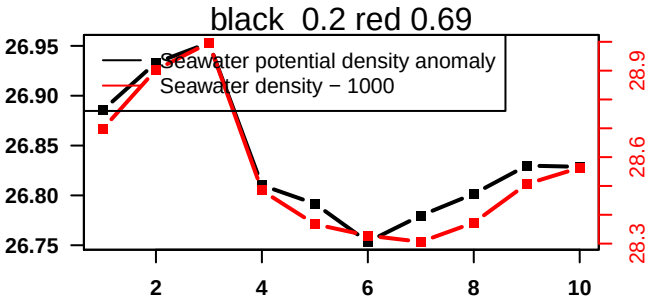

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
20 25 30 35 40

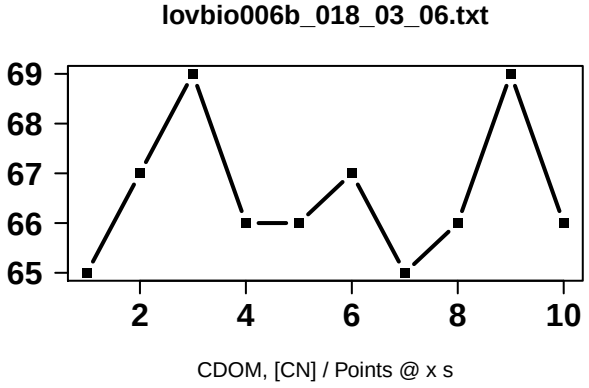

lovbio006b_018_02_06.txt
100
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

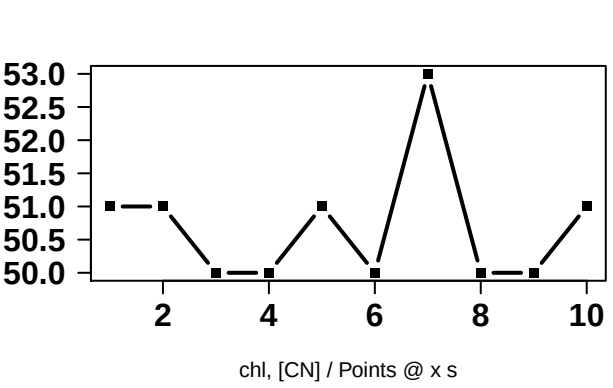

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

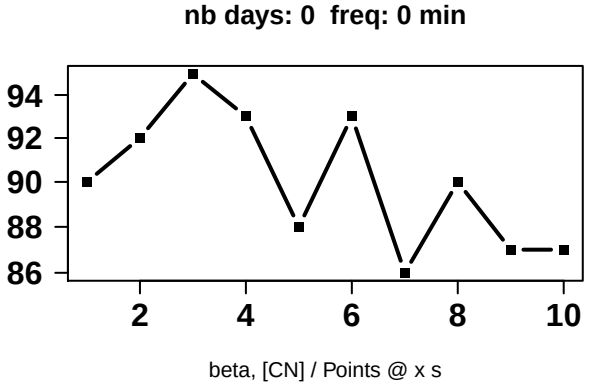

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

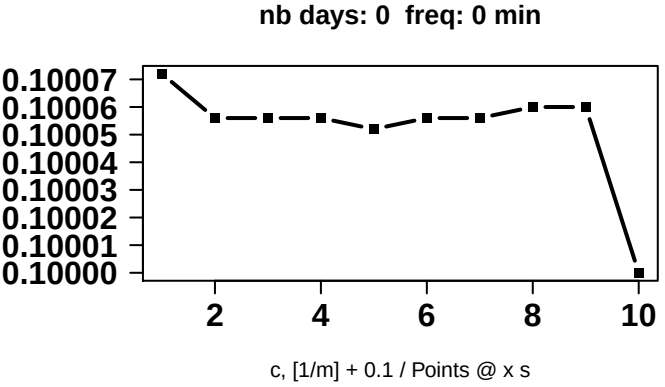

2013−03−27 23:08:15 2013−03−27 23:08:22
460
440
420
400
380
360
0
5
10
15
20
25
30
Pressure in

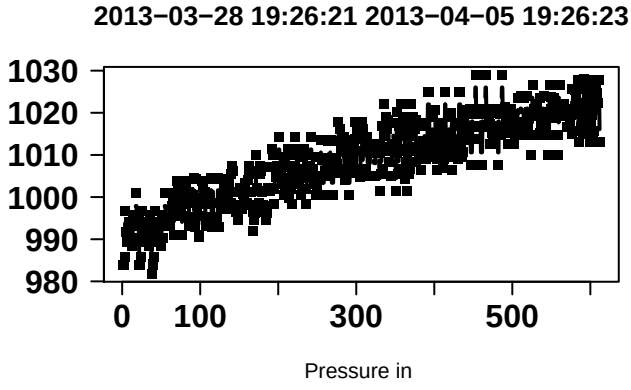

black 0.2 red 0.69
Seawater potential density anomaly
Seawater density − 1000
26.95
26.90
26.85
26.80
26.75
28.9
28.6
28.3
2
4
6
8
10

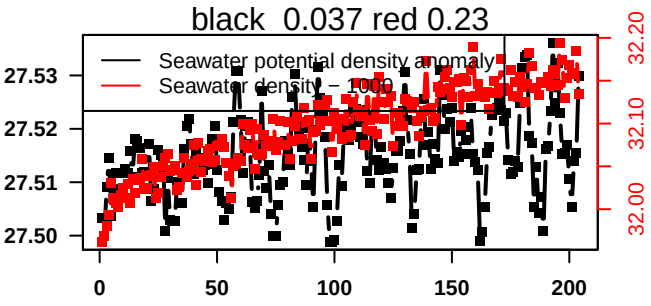

lovbio006b_018_03_06.txt
69
68
67
66
65
2
4
6
8
10
CDOM, [CN] / Points @ x s

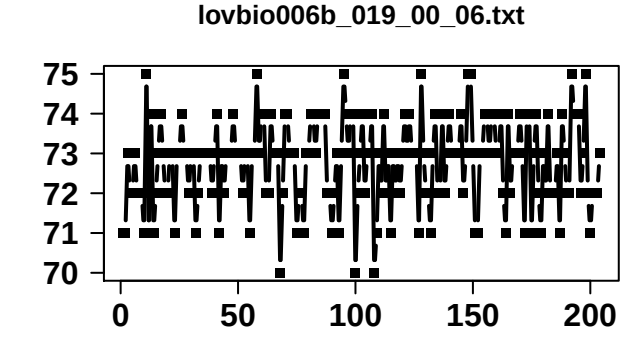

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

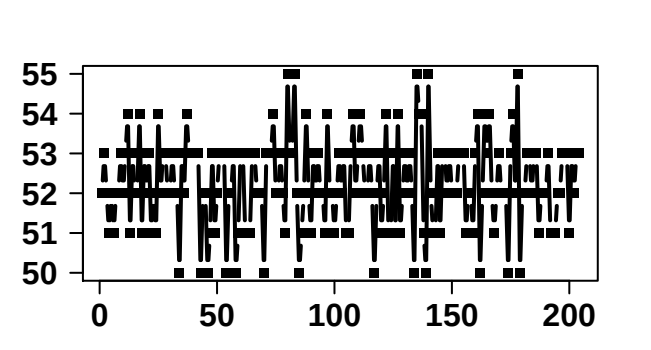

nb days: 0 freq: 0 min
94
92
90
88
86
2
4
6
8
10
beta, [CN] / Points @ x s

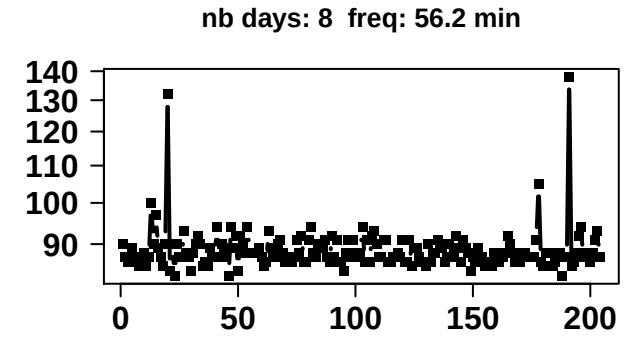

nb days: 0 freq: 0 min
0.10007
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

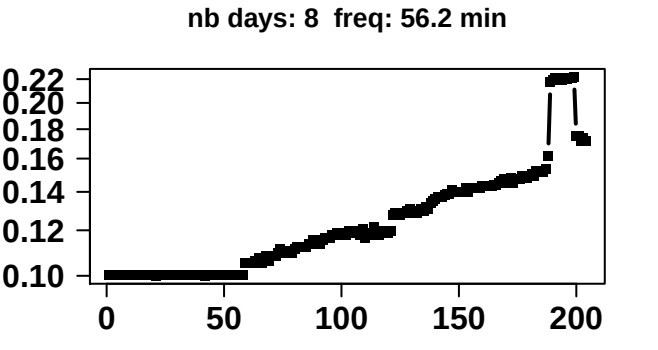

2013−03−28 19:26:21 2013−04−05 19:26:23
1030
1020
1010
1000
990
980
0
100
300
500
Pressure in

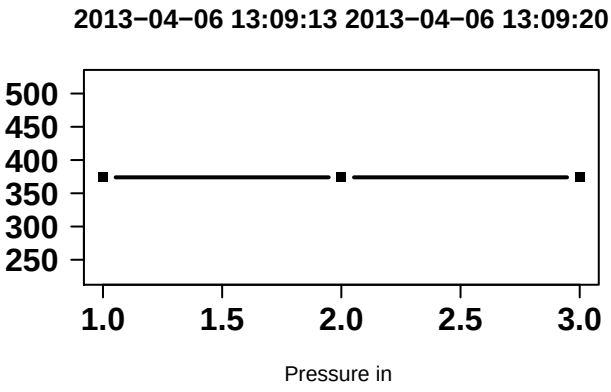

black 0.037 red 0.23
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
32.20
32.10
32.00
0
50
100
150
200

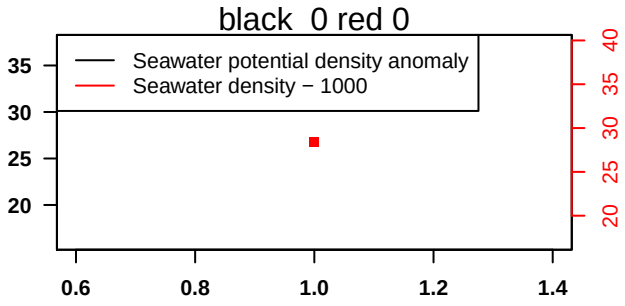

lovbio006b_019_00_06.txt
75
74
73
72
71
70
0
50
100
150
200
CDOM, [CN] / Points @ x s

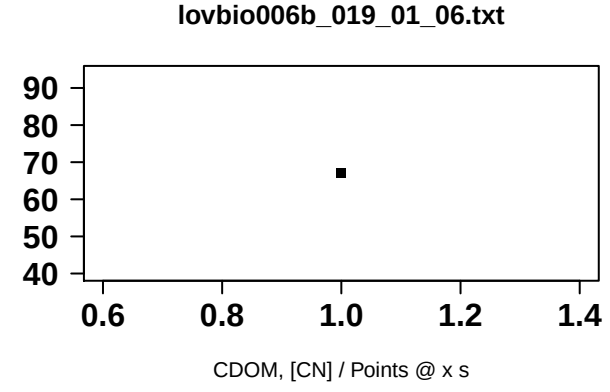

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

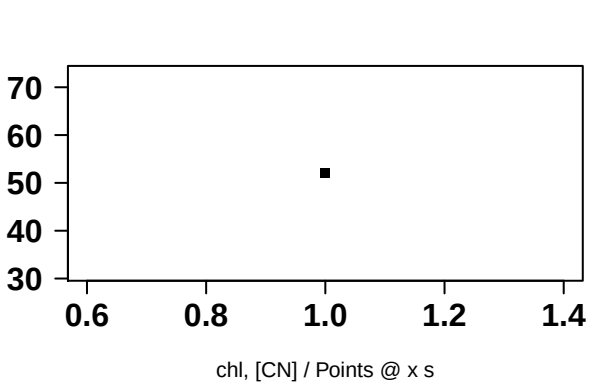

nb days: 8 freq: 56.2 min
140
130
120
110
100
90
0
50
100
150
200
beta, [CN] / Points @ x s

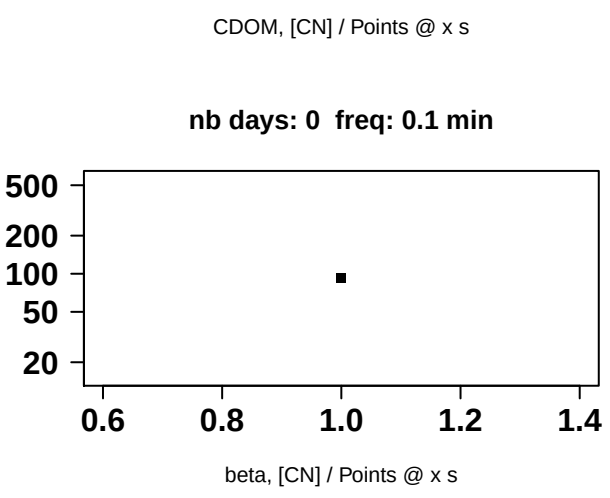

nb days: 8 freq: 56.2 min
0.22
0.20
0.18
0.16
0.14
0.12
0.10
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

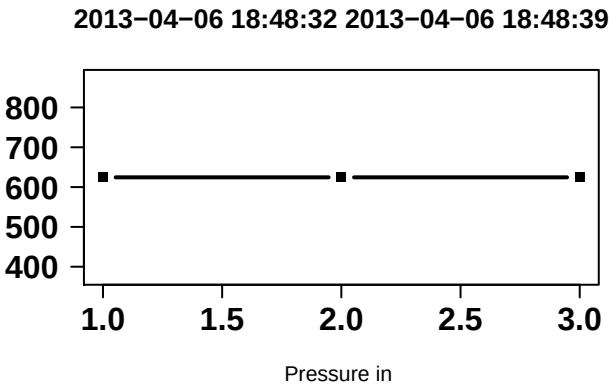

2013−04−06 13:09:13 2013−04−06 13:09:20
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

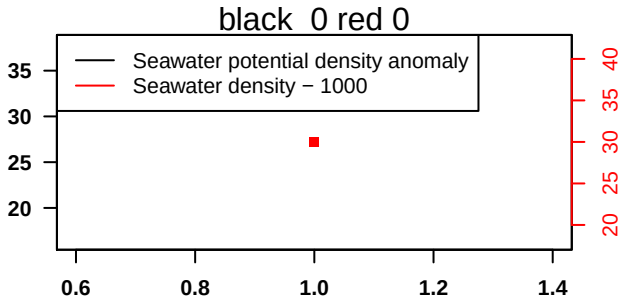

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

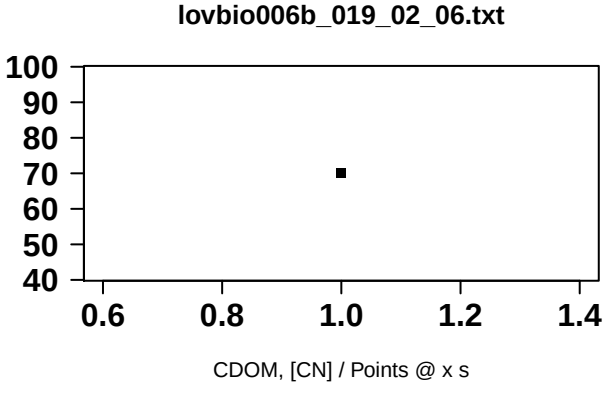

lovbio006b_019_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

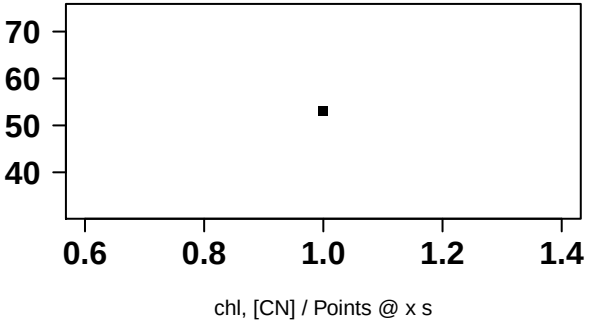

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

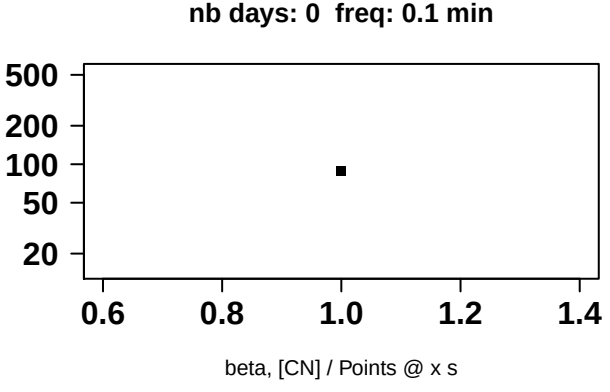

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

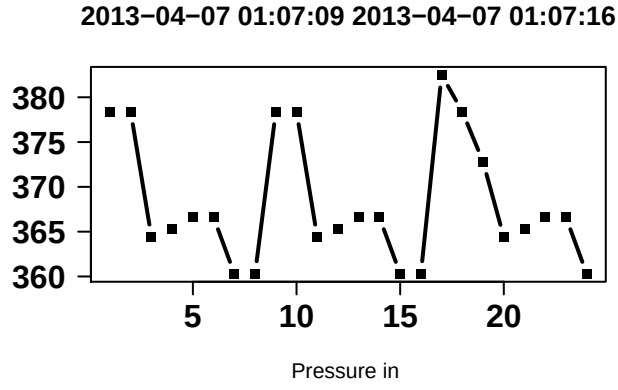

2013−04−06 18:48:32 2013−04−06 18:48:39
800
700
600
500
400
1.0
1.5
2.0
2.5
3.0
Pressure in

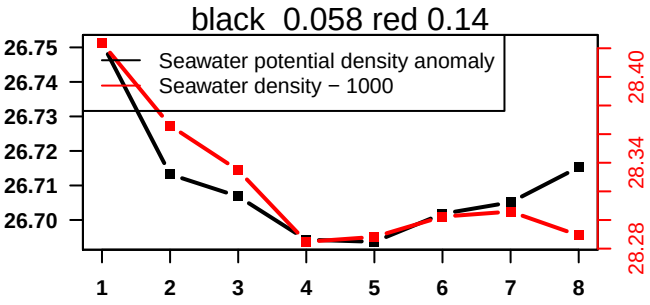

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

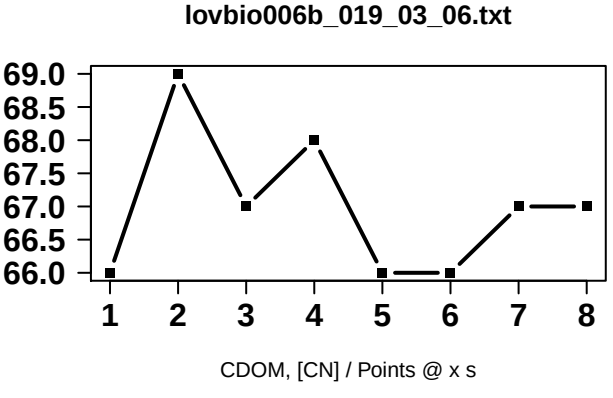

lovbio006b_019_02_06.txt
100
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

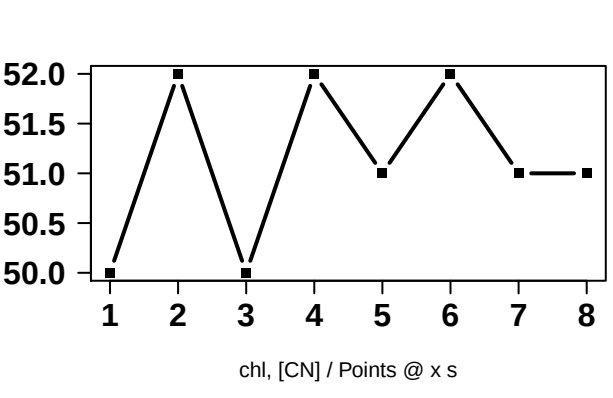

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

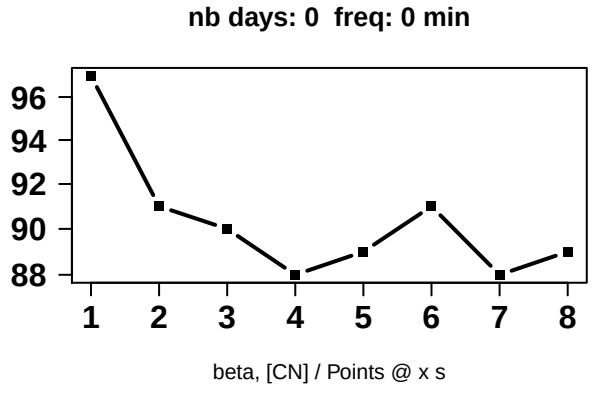

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

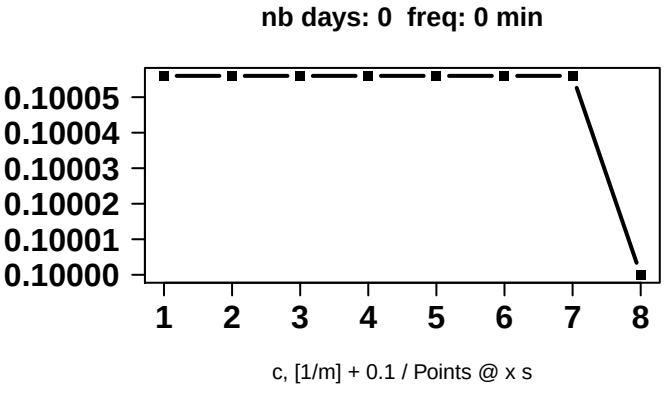

2013−04−07 01:07:09 2013−04−07 01:07:16
380
375
370
365
360
5
10
15
20
Pressure in

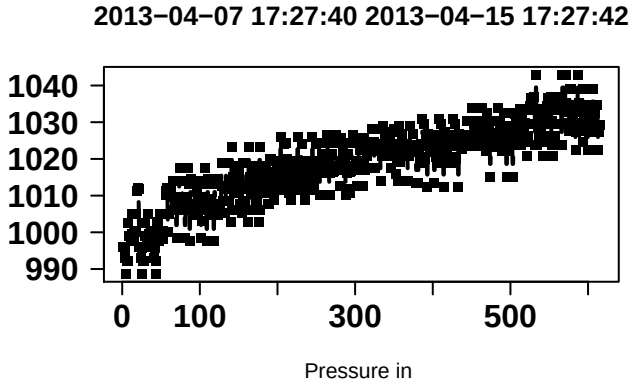

black 0.058 red 0.14
Seawater potential density anomaly
Seawater density − 1000
26.75
26.74
26.73
26.72
26.71
26.70
28.40
28.34
28.28
1
2
3
4
5
6
7
8

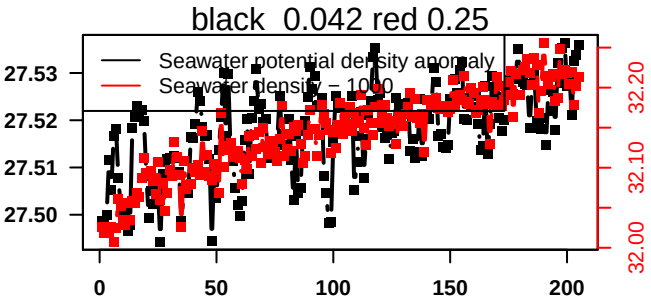

lovbio006b_019_03_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

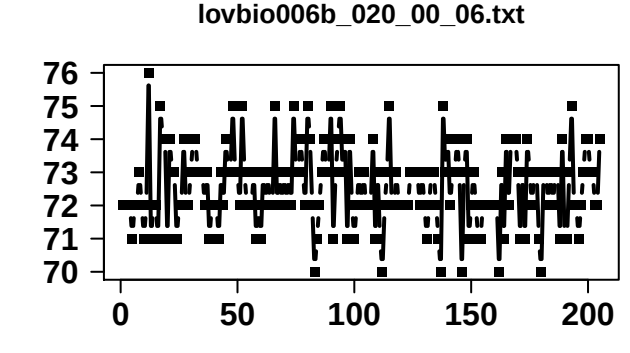

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

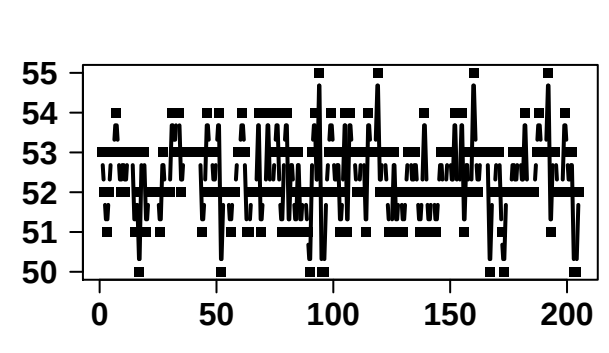

nb days: 0 freq: 0 min
96
94
92
90
88
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

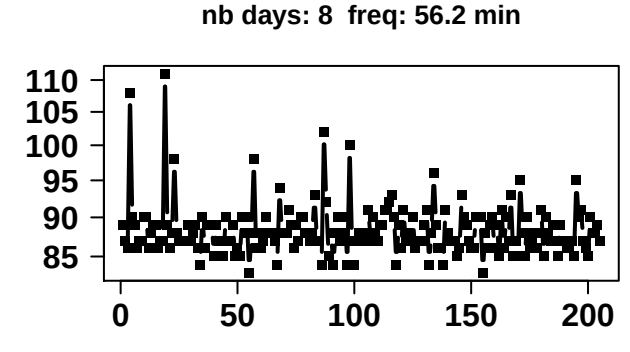

nb days: 0 freq: 0 min
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

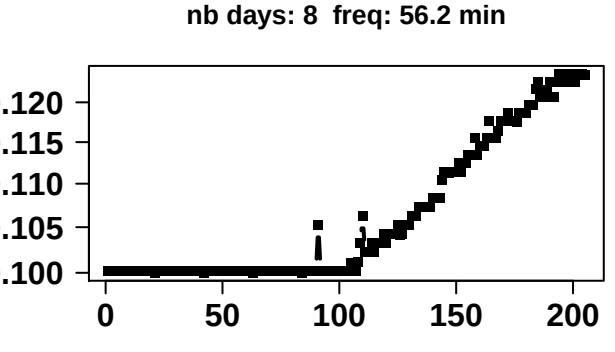

2013−04−07 17:27:40 2013−04−15 17:27:42
1040
1030
1020
1010
1000
990
0
100
300
500
Pressure in

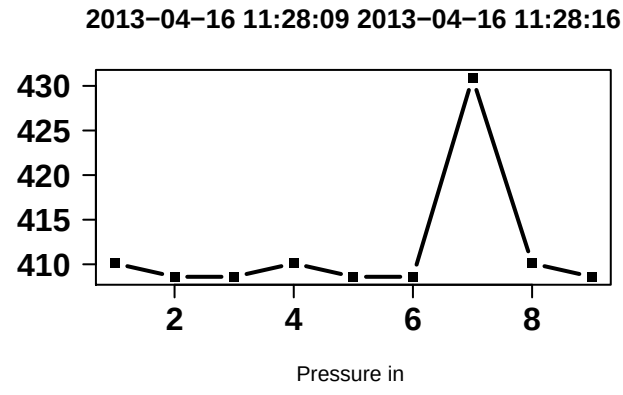

black 0.042 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
32.20
32.10
32.00
0
50
100
150
200

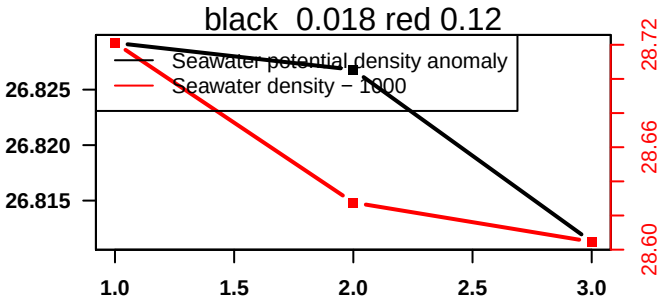

lovbio006b_020_00_06.txt
76
75
74
73
72
71
70
0
50
100
150
200
CDOM, [CN] / Points @ x s

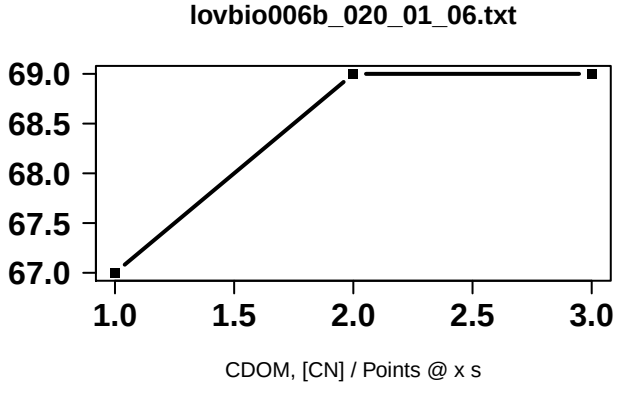

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

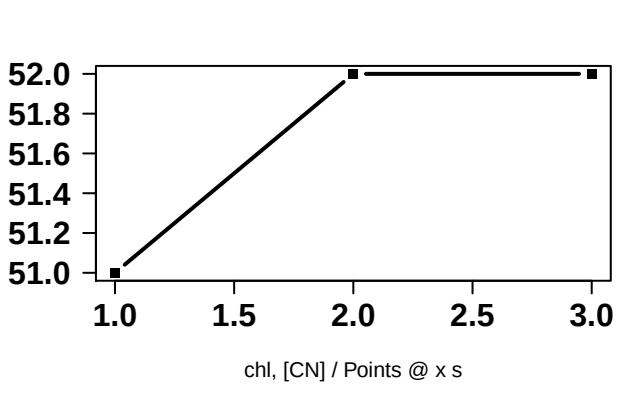

nb days: 8 freq: 56.2 min
110
105
100
95
90
85
0
50
100
150
200
beta, [CN] / Points @ x s

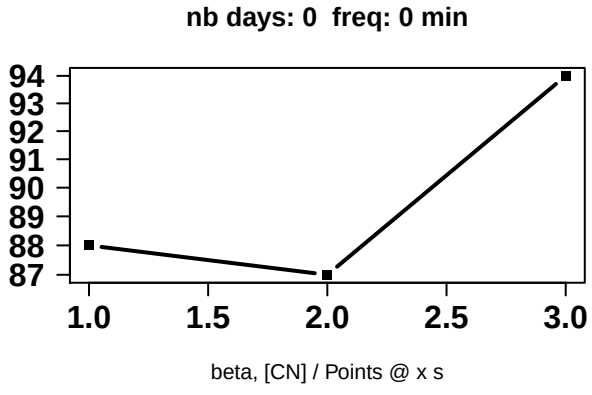

nb days: 8 freq: 56.2 min
0.120
0.115
0.110
0.105
0.100
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

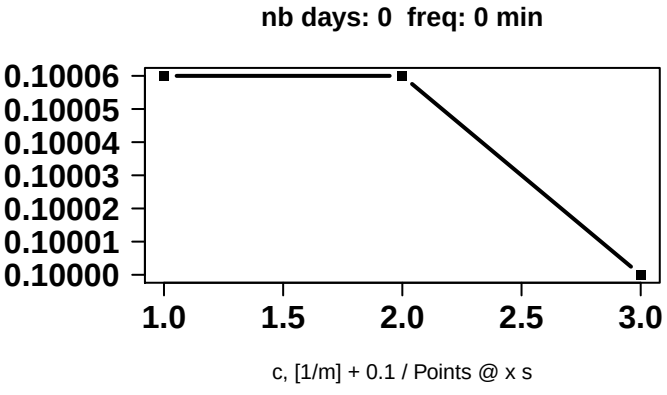

2013−04−16 11:28:09 2013−04−16 11:28:16
430
425
420
415
410
2
4
6
8
Pressure in

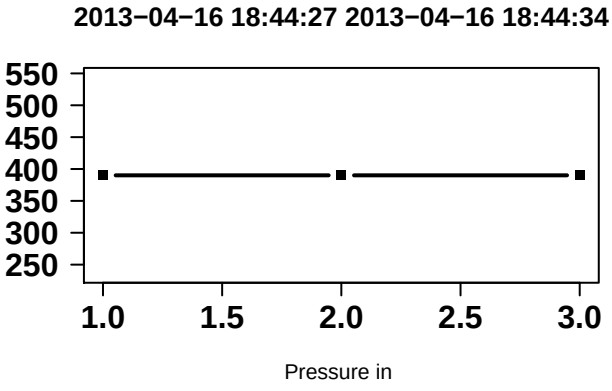

black 0.018 red 0.12
Seawater potential density anomaly
Seawater density − 1000
26.825
26.820
26.815
28.72
28.66
28.60
1.0
1.5
2.0
2.5
3.0

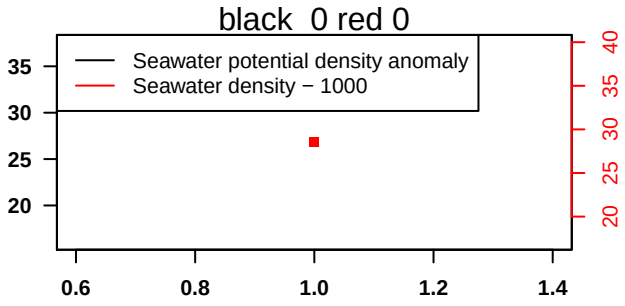

lovbio006b_020_01_06.txt
69.0
68.5
68.0
67.5
67.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

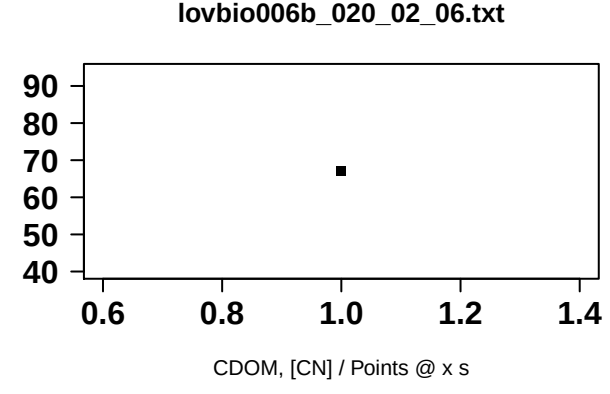

52.0
51.8
51.6
51.4
51.2
51.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

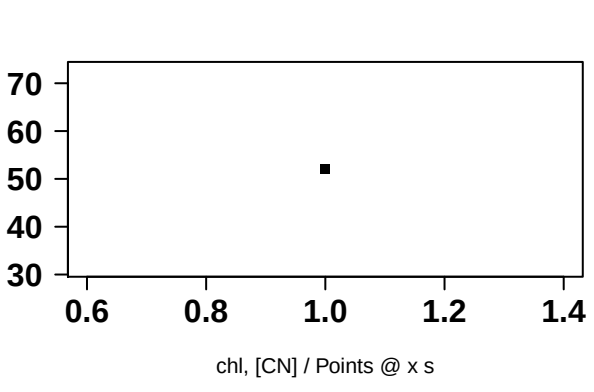

nb days: 0 freq: 0 min
94
93
92
91
90
89
88
87
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

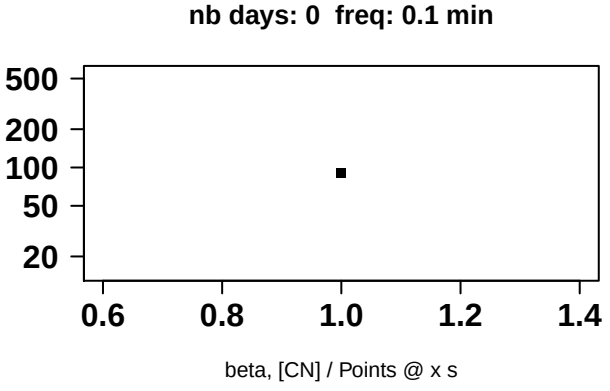

nb days: 0 freq: 0 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

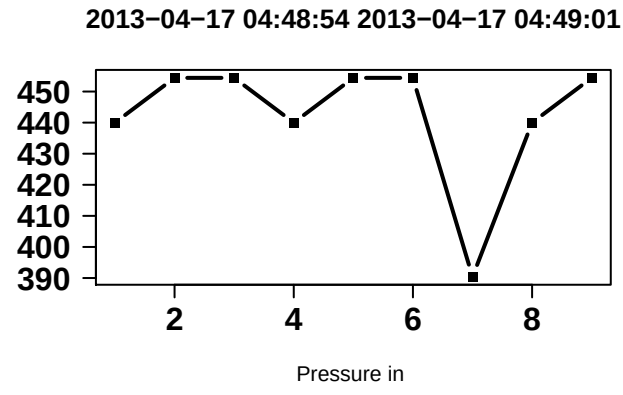

2013−04−16 18:44:27 2013−04−16 18:44:34
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

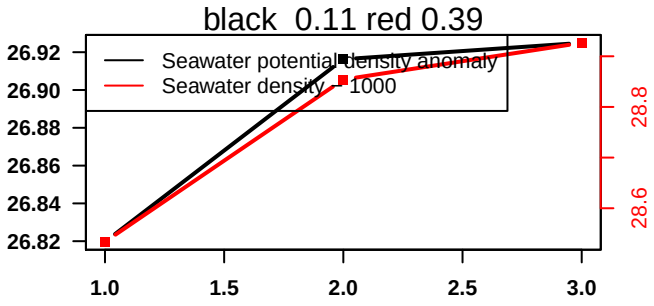

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

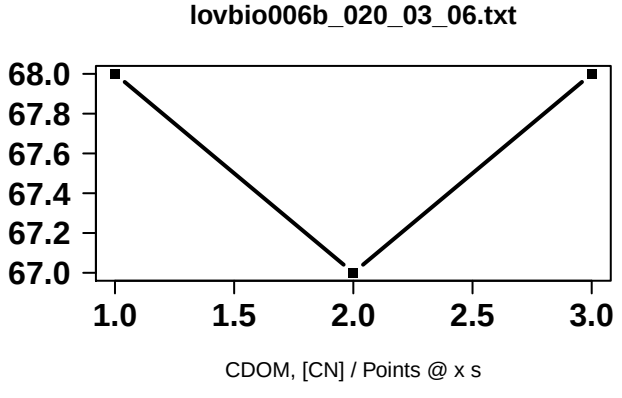

lovbio006b_020_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

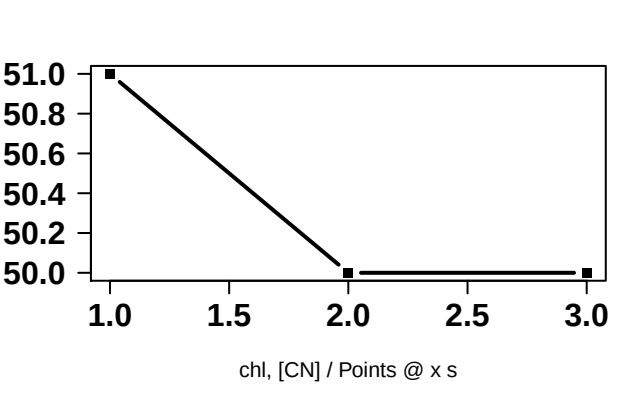

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

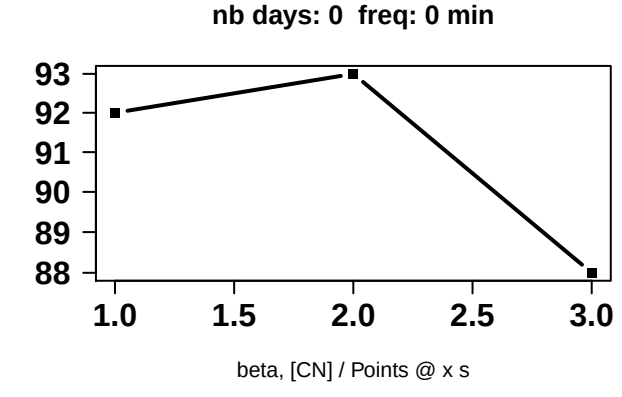

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

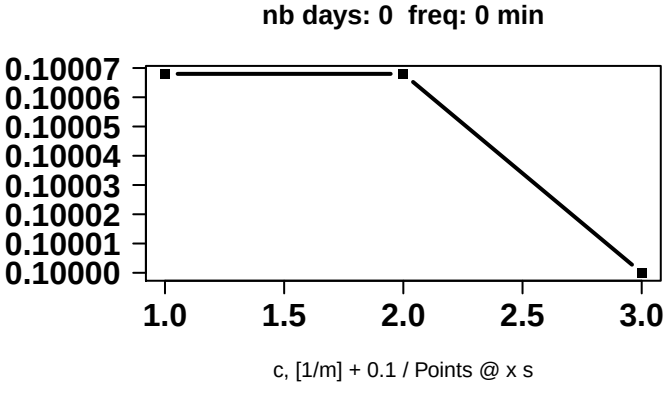

2013−04−17 04:48:54 2013−04−17 04:49:01
450
440
430
420
410
400
390
2
4
6
8
Pressure in

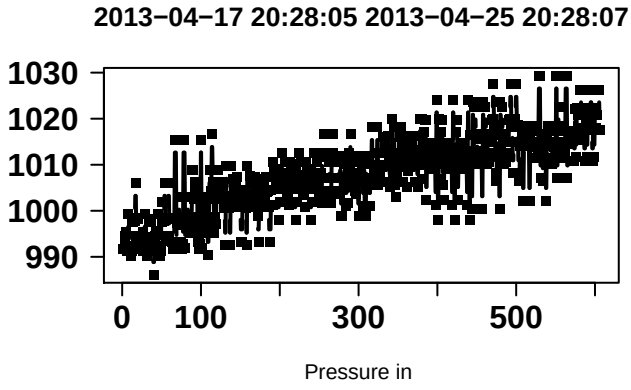

black 0.11 red 0.39
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
26.84
26.82
28.8
28.6
1.0
1.5
2.0
2.5
3.0

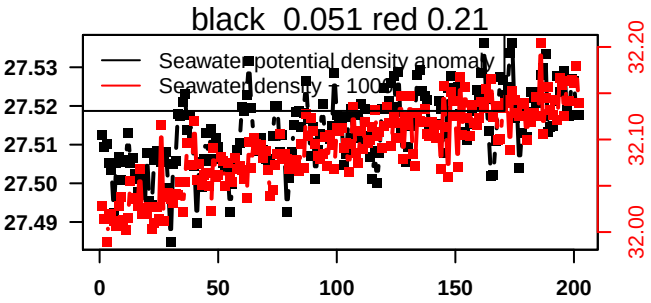

lovbio006b_020_03_06.txt
68.0
67.8
67.6
67.4
67.2
67.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

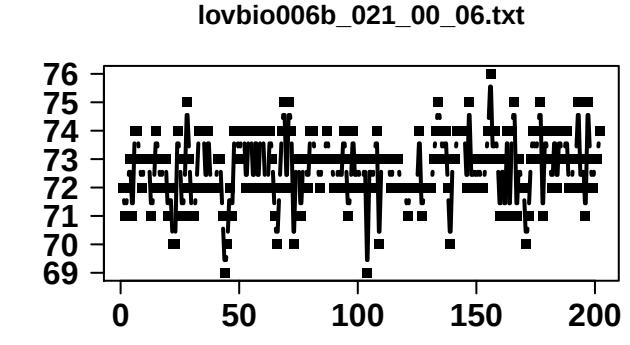

51.0
50.8
50.6
50.4
50.2
50.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

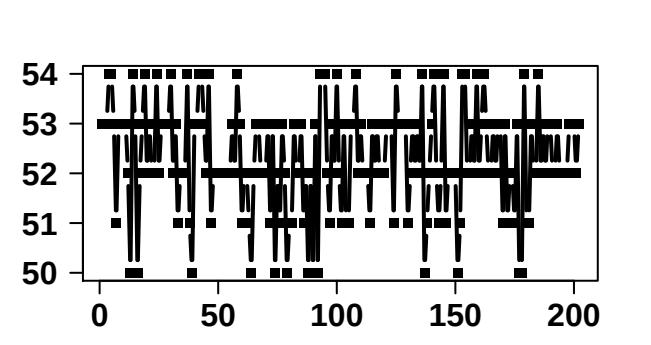

nb days: 0 freq: 0 min
93
92
91
90
89
88
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

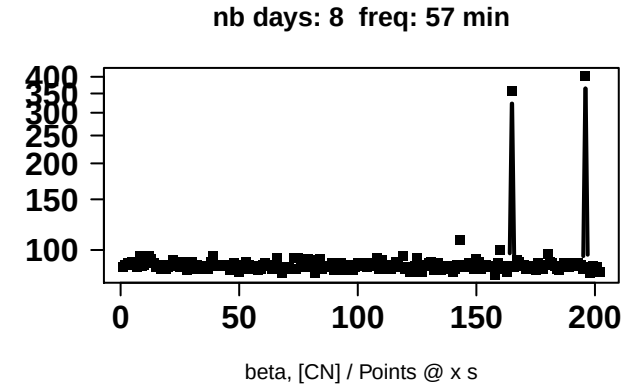

nb days: 0 freq: 0 min
0.10007
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

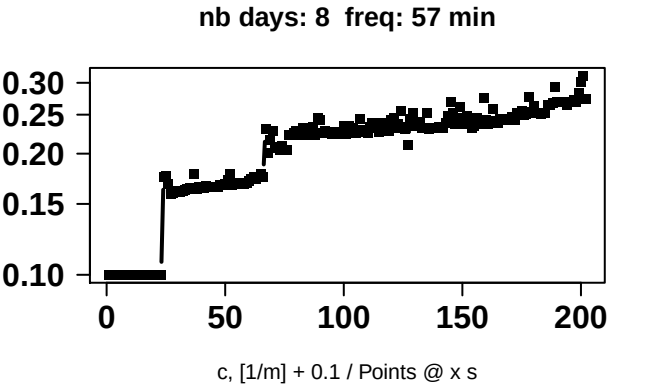

2013−04−17 20:28:05 2013−04−25 20:28:07
1030
1020
1010
1000
990
0
100
300
500
Pressure in

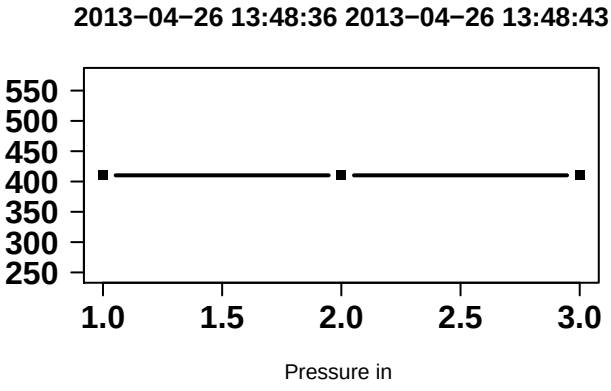

black 0.051 red 0.21
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
32.20
32.10
32.00
0
50
100
150
200

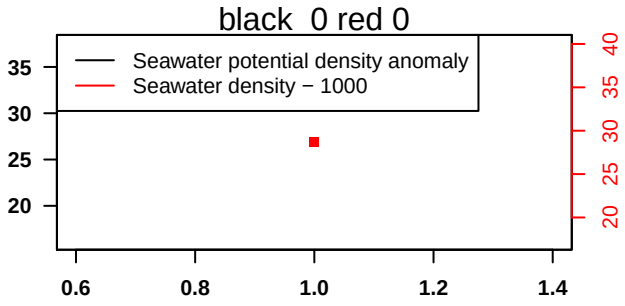

lovbio006b_021_00_06.txt
76
75
74
73
72
71
70
69
0
50
100
150
200
CDOM, [CN] / Points @ x s

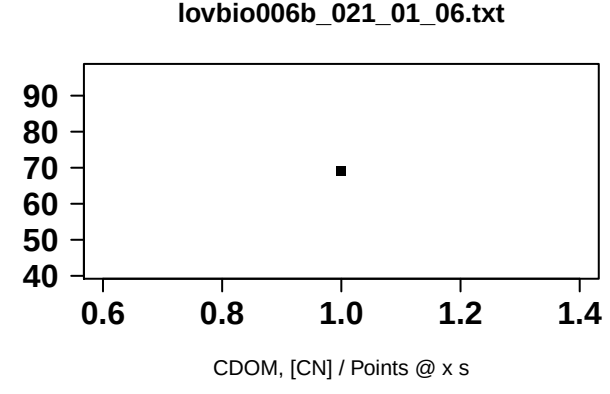

54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

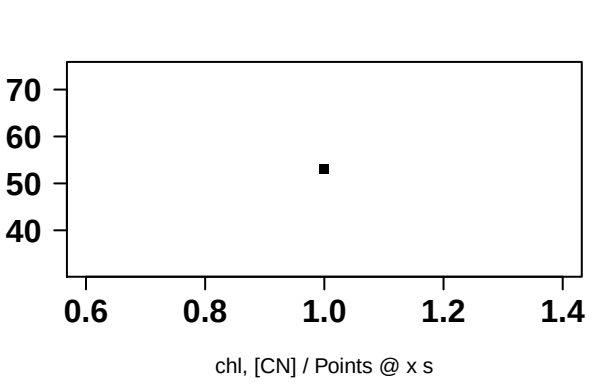

nb days: 8 freq: 57 min
400
350
300
250
200
150
100
0
50
100
150
200
beta, [CN] / Points @ x s

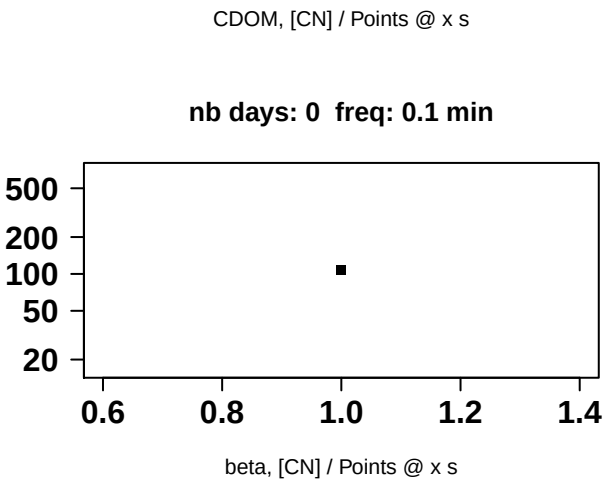

nb days: 8 freq: 57 min
0.30
0.25
0.20
0.15
0.10
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

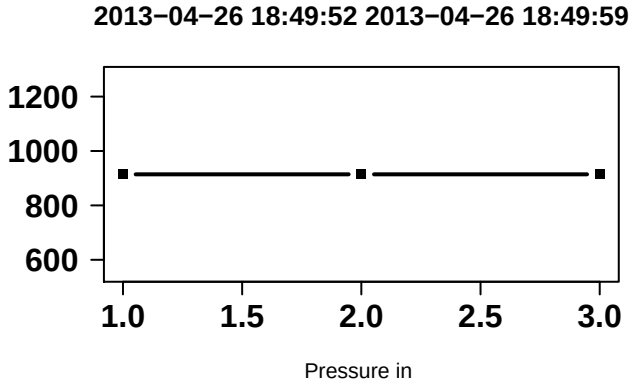

2013−04−26 13:48:36 2013−04−26 13:48:43
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

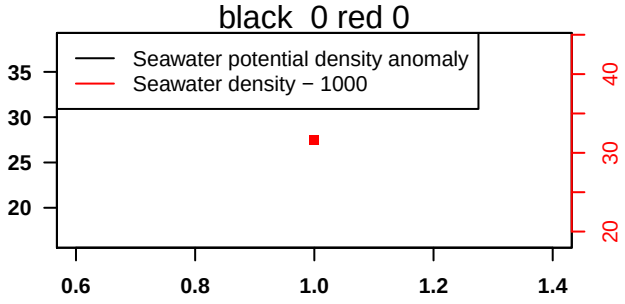

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

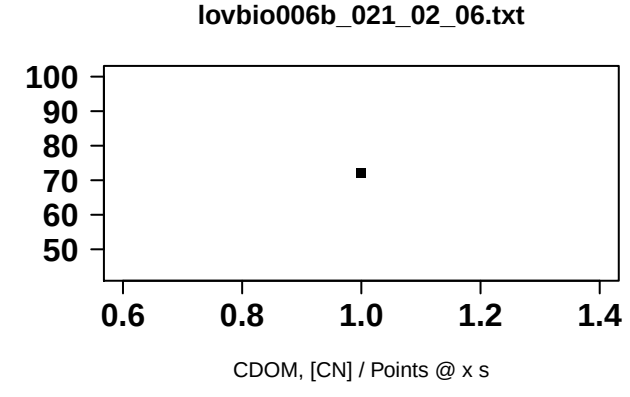

lovbio006b_021_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

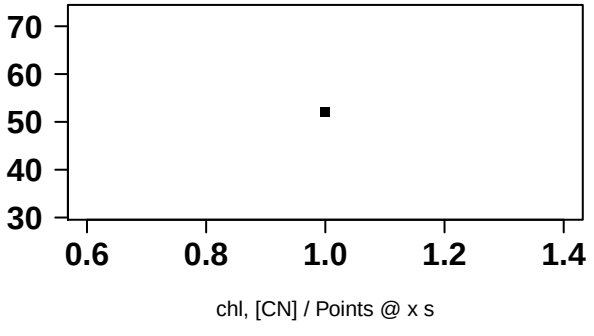

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

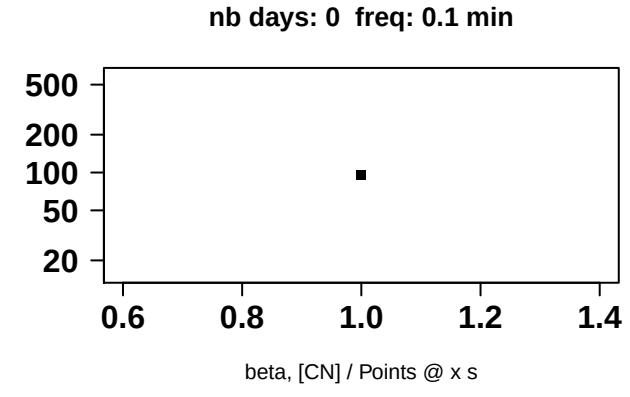

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

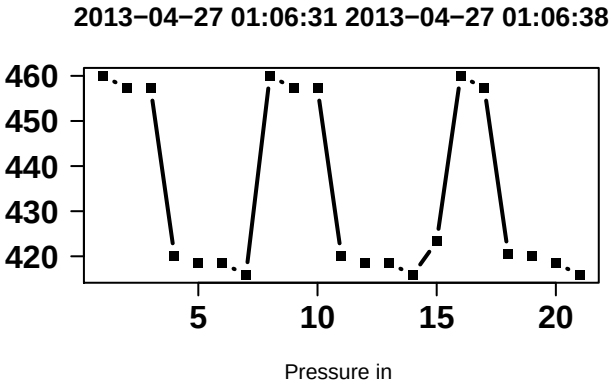

2013−04−26 18:49:52 2013−04−26 18:49:59
1200
1000
800
600
1.0
1.5
2.0
2.5
3.0
Pressure in

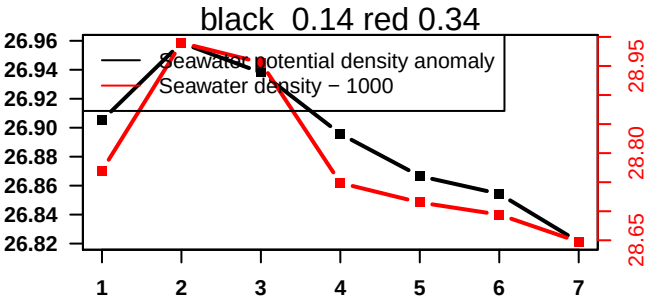

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
40
30
20
0.6
0.8
1.0
1.2
1.4

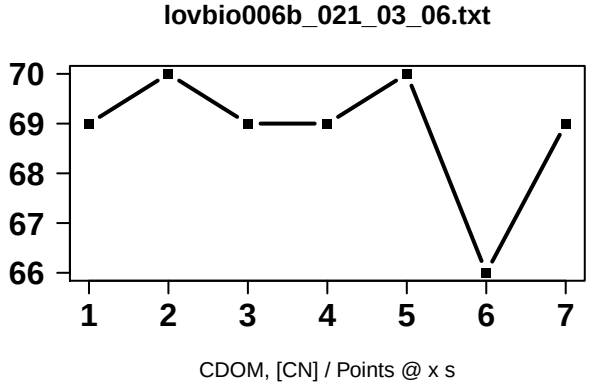

lovbio006b_021_02_06.txt
100
90
80
70
60
50
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

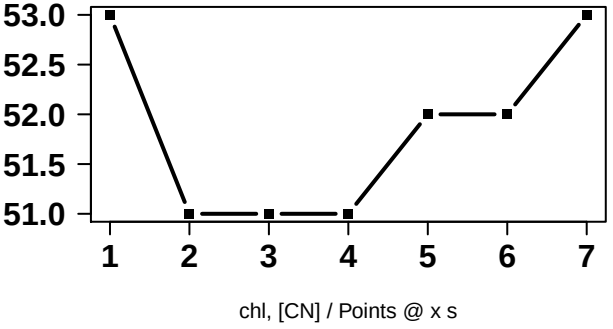

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

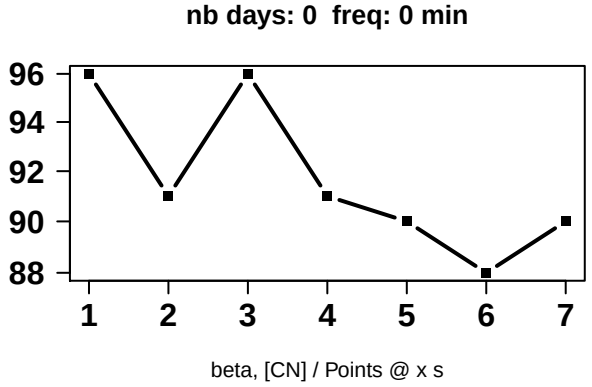

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

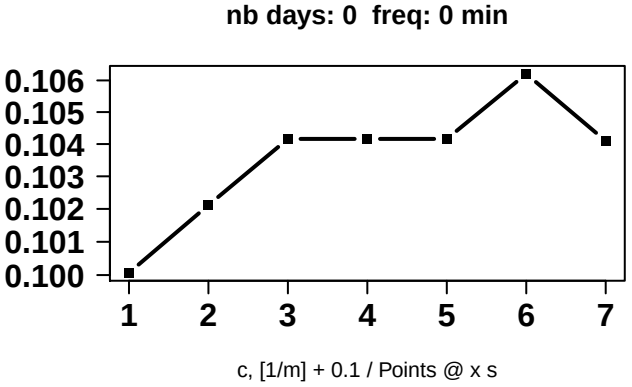

2013−04−27 01:06:31 2013−04−27 01:06:38
460
450
440
430
420
5
10
15
20
Pressure in

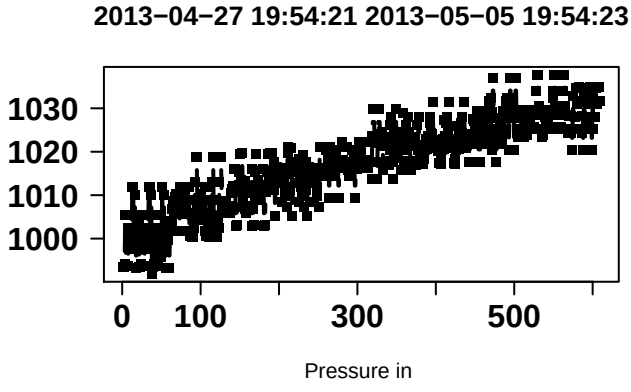

black 0.14 red 0.34
Seawater potential density anomaly
Seawater density − 1000
26.96
26.94
26.92
26.90
26.88
26.86
26.84
26.82
28.95
28.80
28.65
1
2
3
4
5
6
7

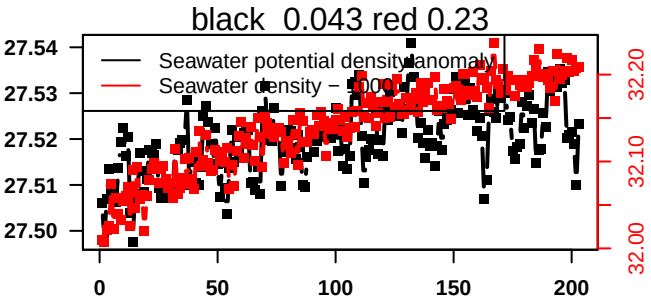

lovbio006b_021_03_06.txt
70
69
68
67
66
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

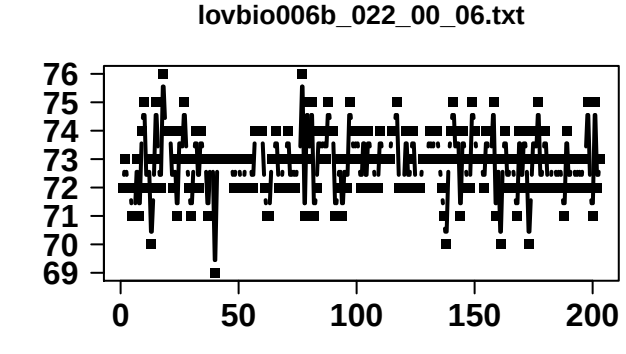

53.0
52.5
52.0
51.5
51.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

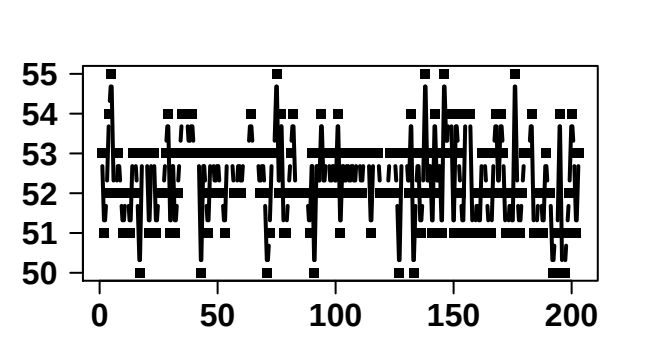

nb days: 0 freq: 0 min
96
94
92
90
88
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

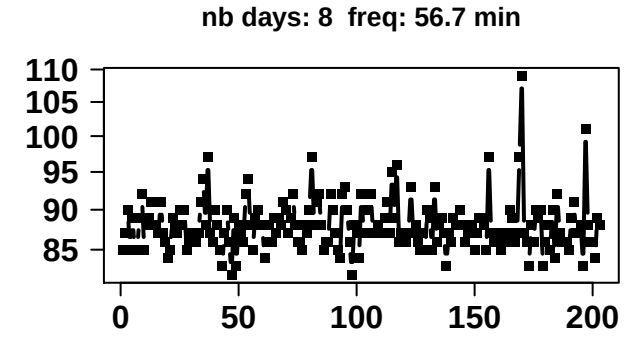

nb days: 0 freq: 0 min
0.106
0.105
0.104
0.103
0.102
0.101
0.100
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

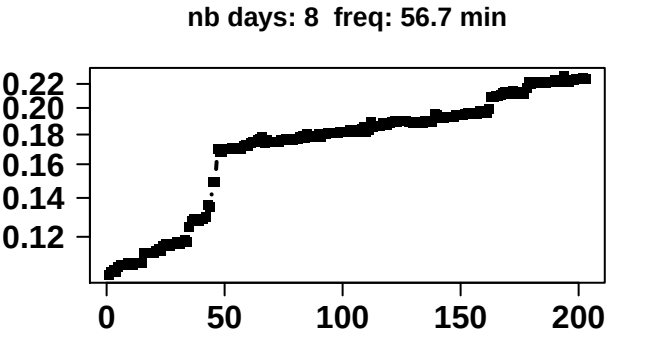

2013−04−27 19:54:21 2013−05−05 19:54:23
1030
1020
1010
1000
0
100
300
500
Pressure in

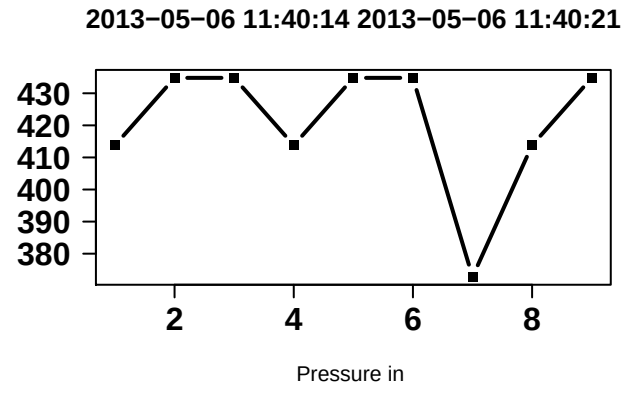

black 0.043 red 0.23
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.20
32.10
32.00
0
50
100
150
200

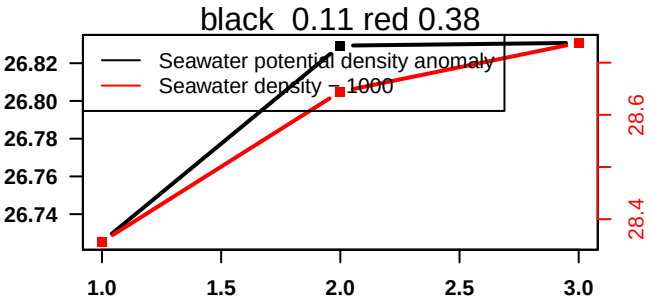

lovbio006b_022_00_06.txt
76
75
74
73
72
71
70
69
0
50
100
150
200
CDOM, [CN] / Points @ x s

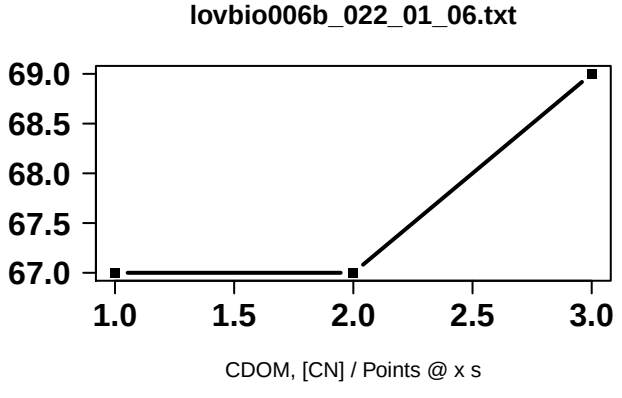

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

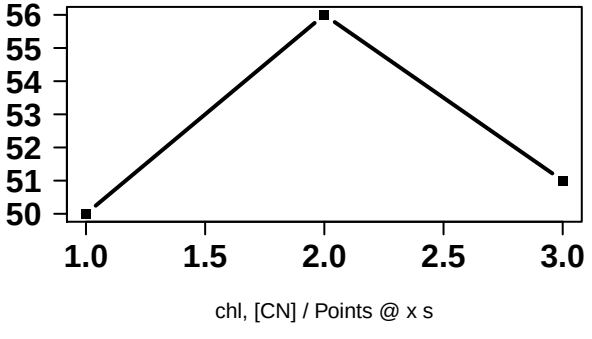

nb days: 8 freq: 56.7 min
110
105
100
95
90
85
0
50
100
150
200
beta, [CN] / Points @ x s

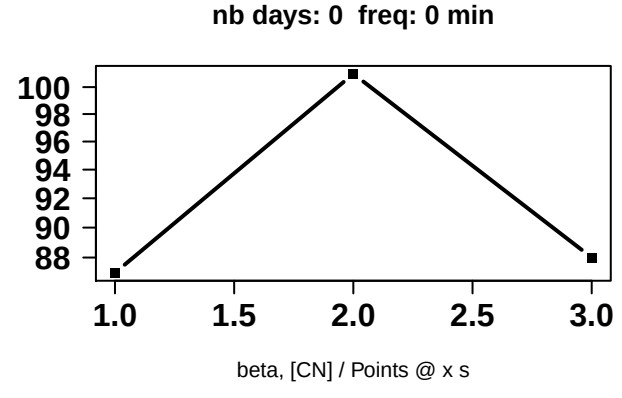

nb days: 8 freq: 56.7 min
0.22
0.20
0.18
0.16
0.14
0.12
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

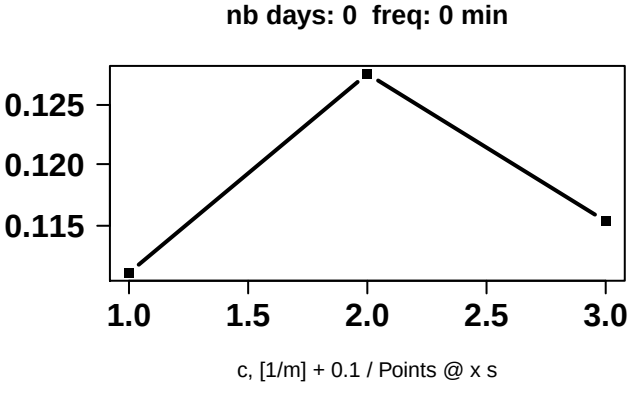

2013−05−06 11:40:14 2013−05−06 11:40:21
430
420
410
400
390
380
2
4
6
8
Pressure in

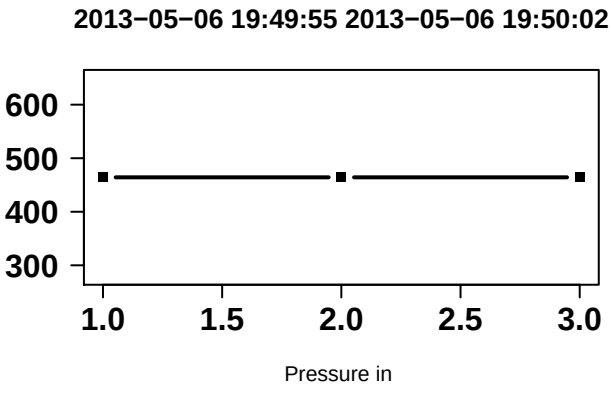

black 0.11 red 0.38
Seawater potential density anomaly
Seawater density − 1000
26.82
26.80
26.78
26.76
26.74
28.6
28.4
1.0
1.5
2.0
2.5
3.0

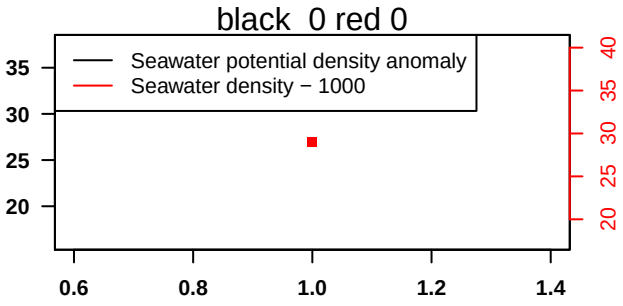

lovbio006b_022_01_06.txt
69.0
68.5
68.0
67.5
67.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

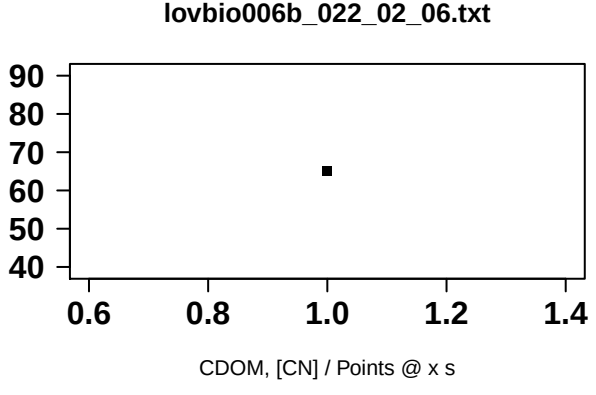

56
55
54
53
52
51
50
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

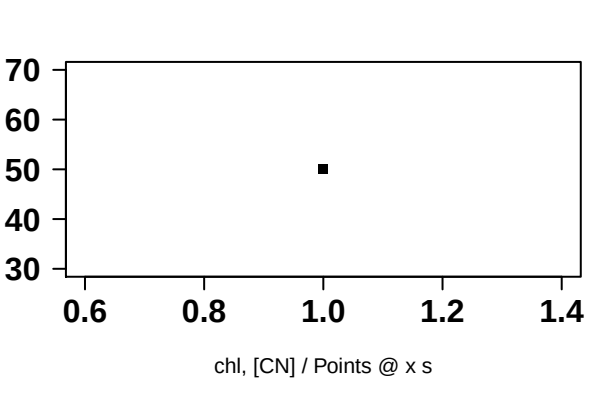

nb days: 0 freq: 0 min
100
98
96
94
92
90
88
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

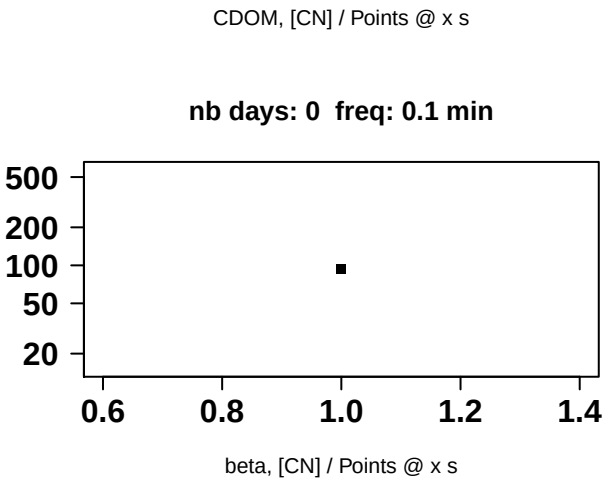

nb days: 0 freq: 0 min
0.125
0.120
0.115
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

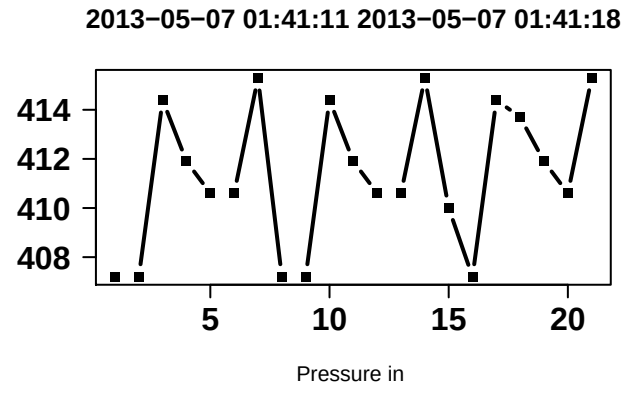

2013−05−06 19:49:55 2013−05−06 19:50:02
600
500
400
300
1.0
1.5
2.0
2.5
3.0
Pressure in

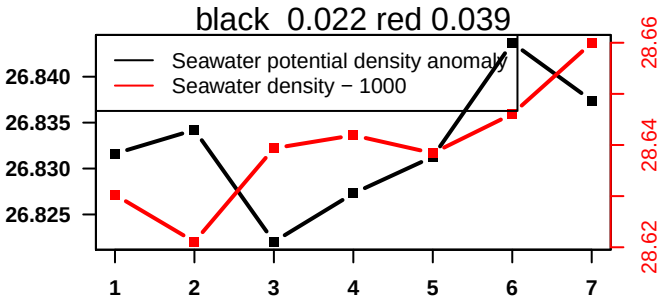

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

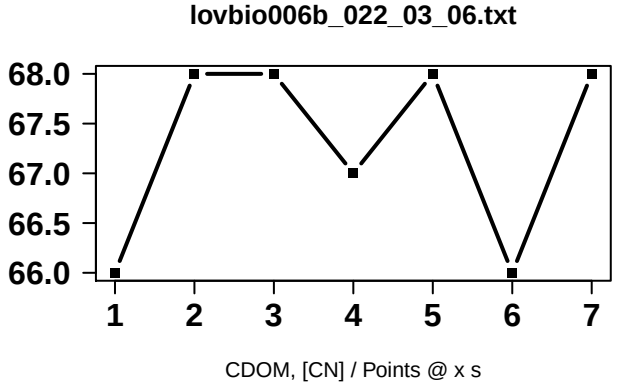

lovbio006b_022_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

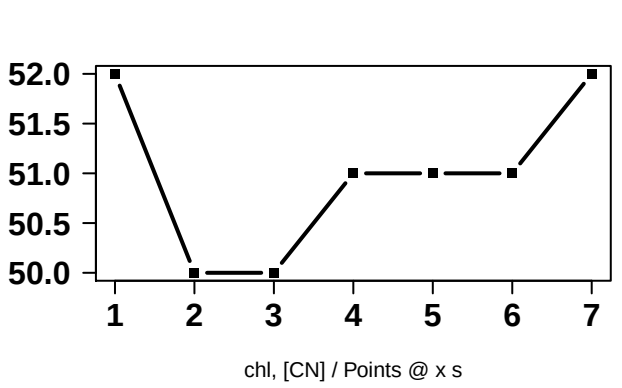

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

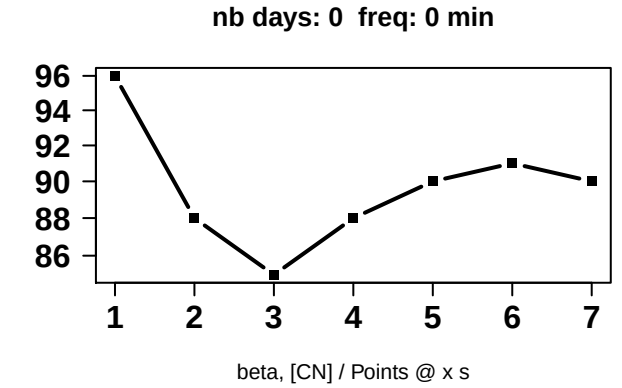

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

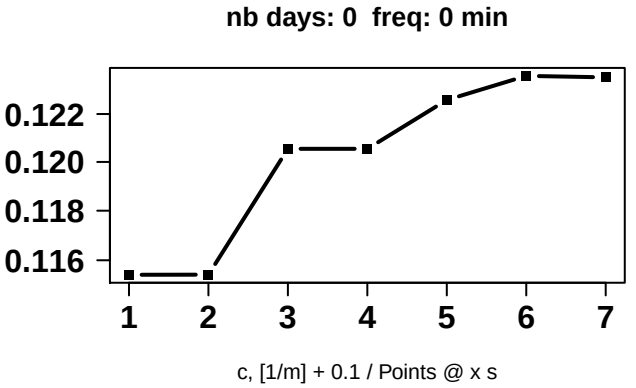

2013−05−07 01:41:11 2013−05−07 01:41:18
414
412
410
408
5
10
15
20
Pressure in

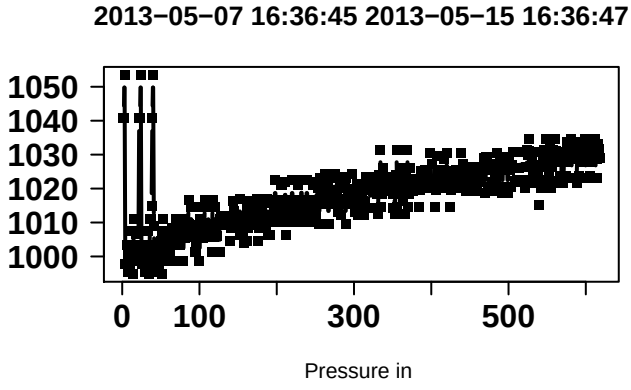

black 0.022 red 0.039
Seawater potential density anomaly
Seawater density − 1000
26.840
26.835
26.830
26.825
28.66
28.64
28.62
1
2
3
4
5
6
7

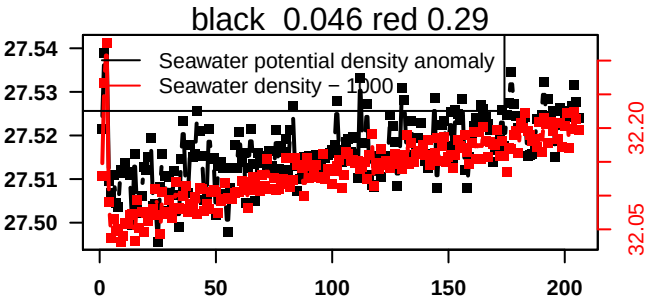

lovbio006b_022_03_06.txt
68.0
67.5
67.0
66.5
66.0
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

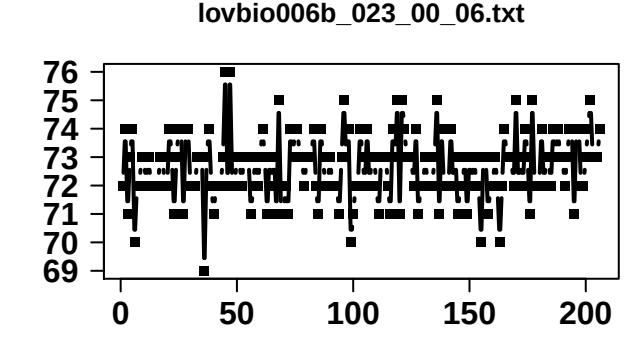

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

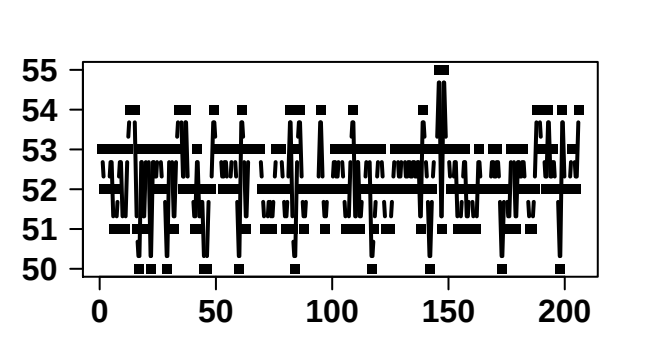

nb days: 0 freq: 0 min
96
94
92
90
88
86
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

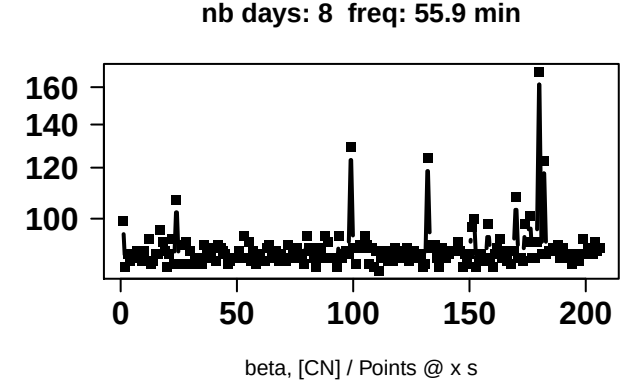

nb days: 0 freq: 0 min
0.122
0.120
0.118
0.116
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

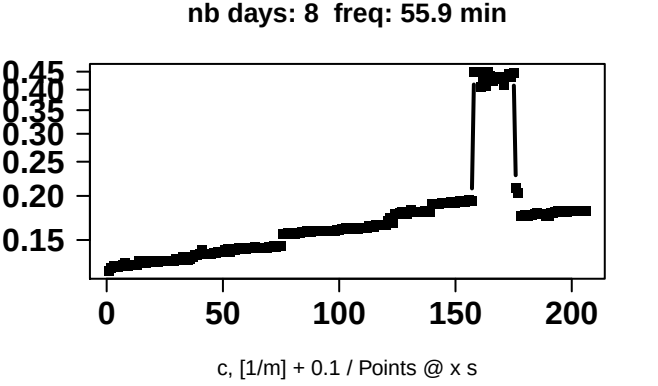

2013−05−07 16:36:45 2013−05−15 16:36:47
1050
1040
1030
1020
1010
1000
0
100
300
500
Pressure in

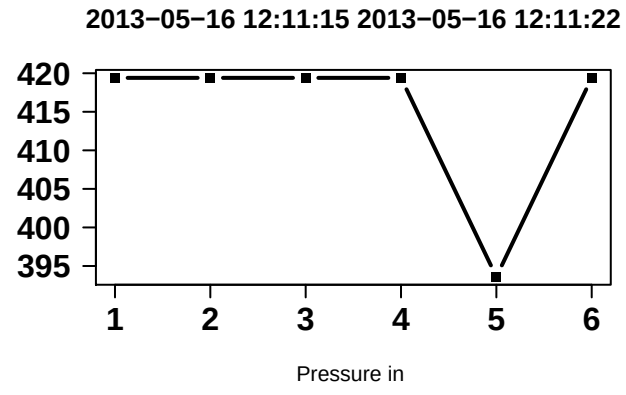

black 0.046 red 0.29
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.20
32.05
0
50
100
150
200

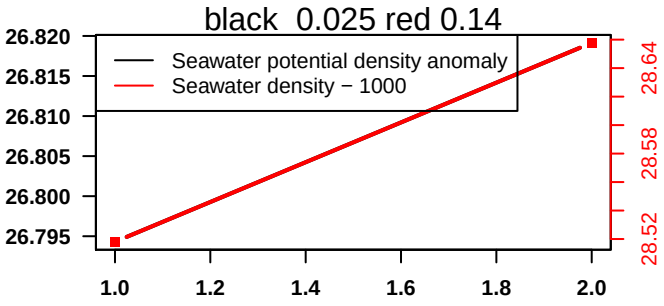

lovbio006b_023_00_06.txt
76
75
74
73
72
71
70
69
0
50
100
150
200
CDOM, [CN] / Points @ x s

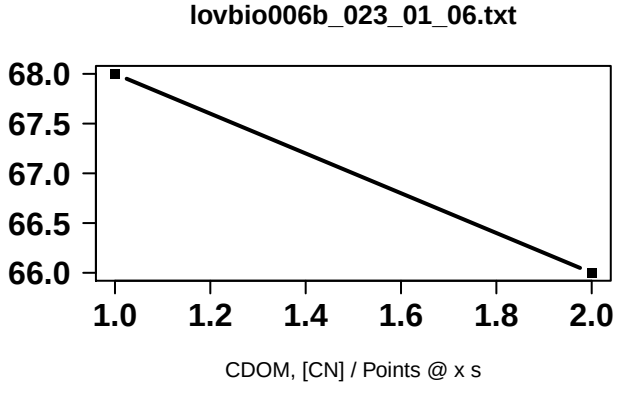

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

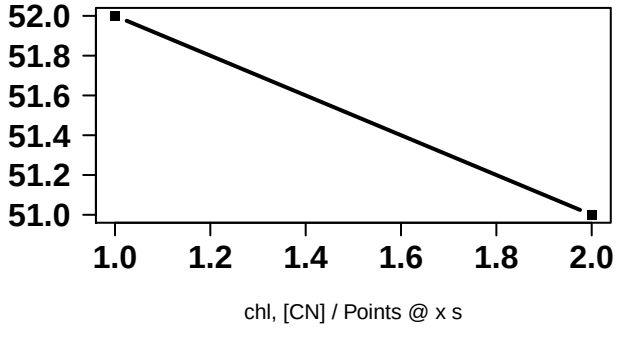

nb days: 8 freq: 55.9 min
160
140
120
100
0
50
100
150
200
beta, [CN] / Points @ x s

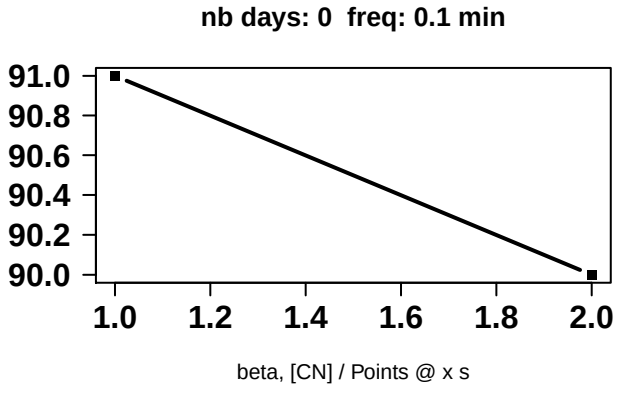

nb days: 8 freq: 55.9 min
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

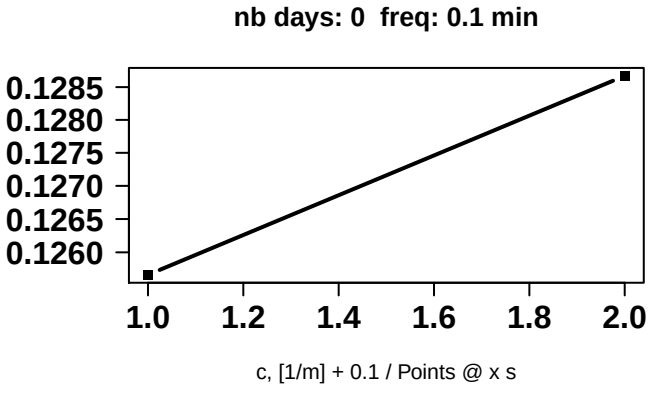

2013−05−16 12:11:15 2013−05−16 12:11:22
420
415
410
405
400
395
1
2
3
4
5
6
Pressure in

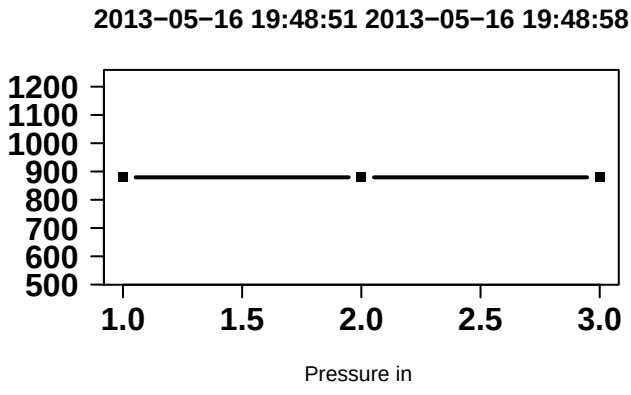

black 0.025 red 0.14
Seawater potential density anomaly
Seawater density − 1000
26.820
26.815
26.810
26.805
26.800
26.795
28.64
28.58
28.52
1.0
1.2
1.4
1.6
1.8
2.0

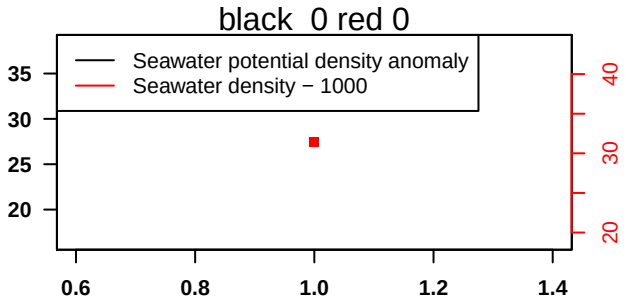

lovbio006b_023_01_06.txt
68.0
67.5
67.0
66.5
66.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

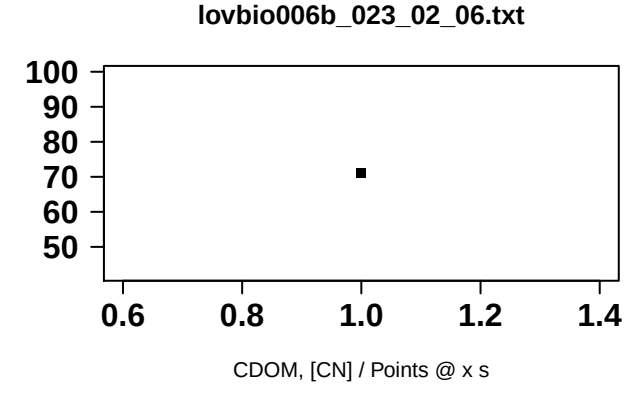

52.0
51.8
51.6
51.4
51.2
51.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

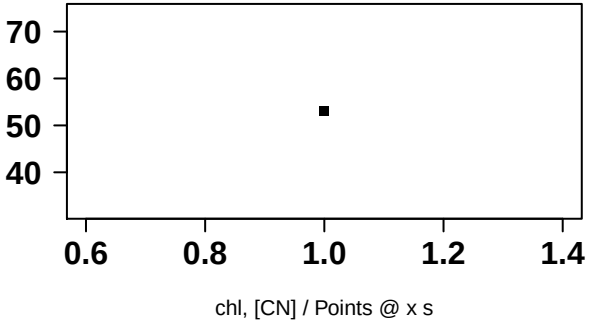

nb days: 0 freq: 0.1 min
91.0
90.8
90.6
90.4
90.2
90.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

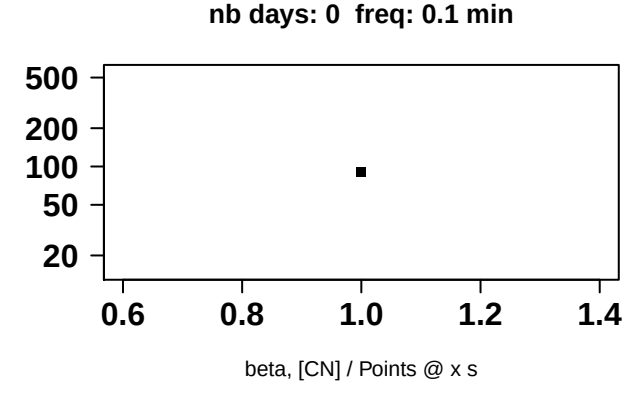

nb days: 0 freq: 0.1 min
0.1285
0.1280
0.1275
0.1270
0.1265
0.1260
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

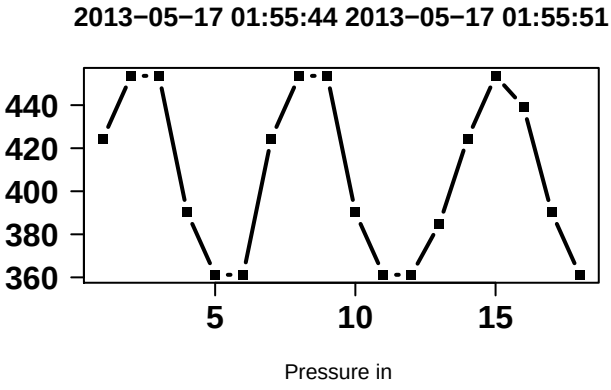

2013−05−16 19:48:51 2013−05−16 19:48:58
1200
1100
1000
900
800
700
600
500
1.0
1.5
2.0
2.5
3.0
Pressure in

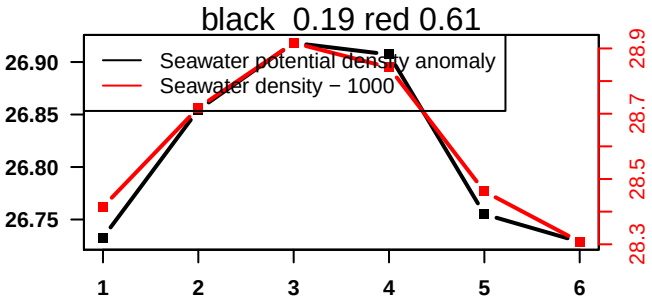

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

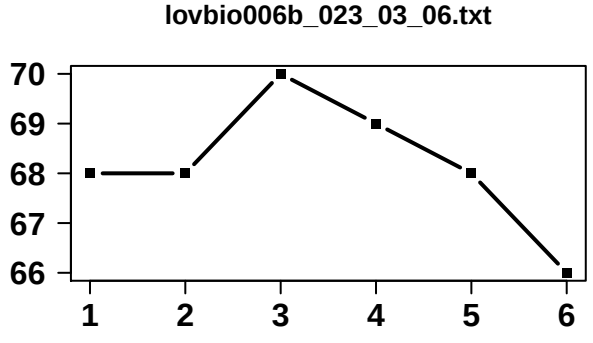

lovbio006b_023_02_06.txt
100
90
80
70
60
50
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

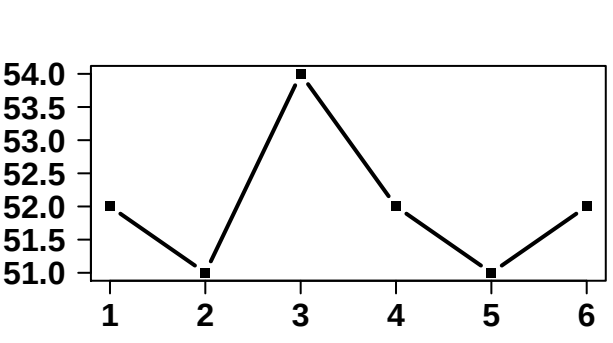

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

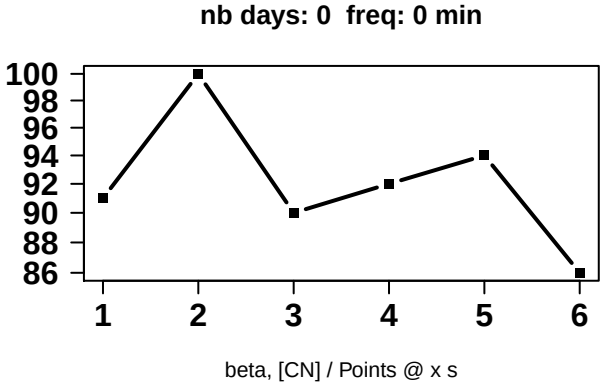

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

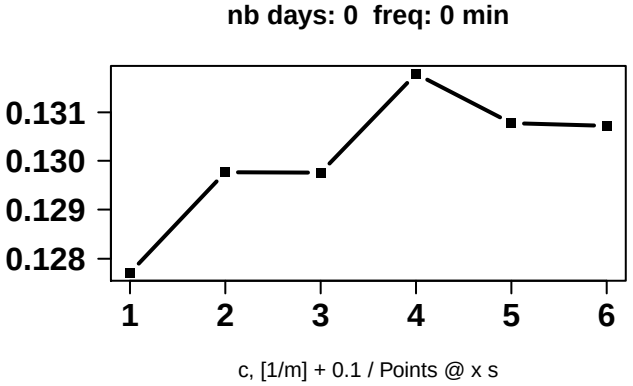

2013−05−17 01:55:44 2013−05−17 01:55:51
440
420
400
380
360
5
10
15
Pressure in

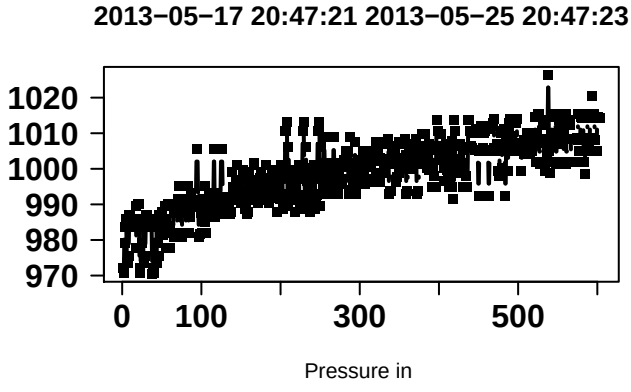

black 0.19 red 0.61
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
26.75
28.9
28.7
28.5
28.3
1
2
3
4
5
6

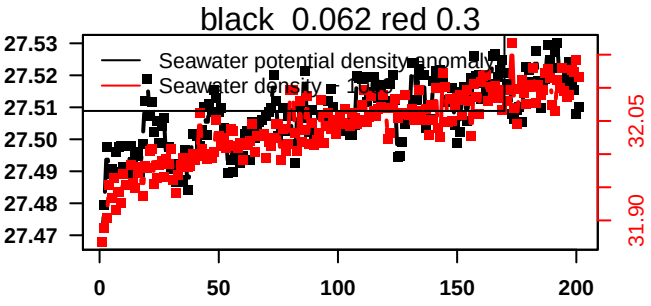

lovbio006b_023_03_06.txt
70
69
68
67
66
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

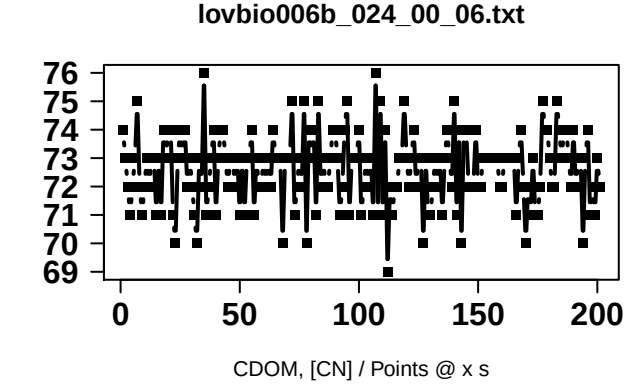

54.0
53.5
53.0
52.5
52.0
51.5
51.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

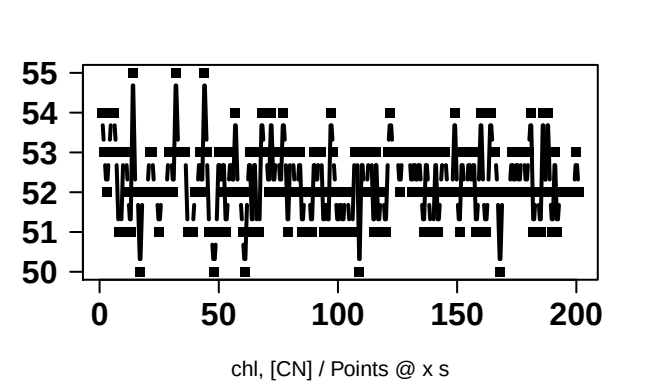

nb days: 0 freq: 0 min
100
98
96
94
92
90
88
86
1
2
3
4
5
6
beta, [CN] / Points @ x s

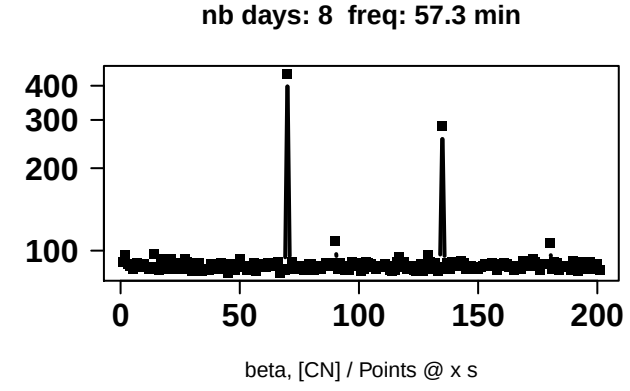

nb days: 0 freq: 0 min
0.131
0.130
0.129
0.128
1
2
3
4
5
6
c, [1/m] + 0.1 / Points @ x s

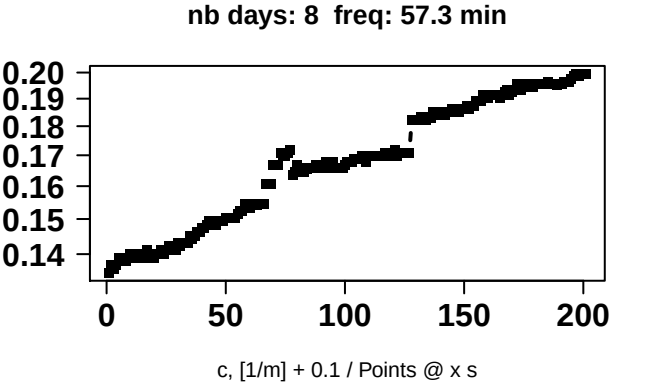

2013−05−17 20:47:21 2013−05−25 20:47:23
1020
1010
1000
990
980
970
0
100
300
500
Pressure in

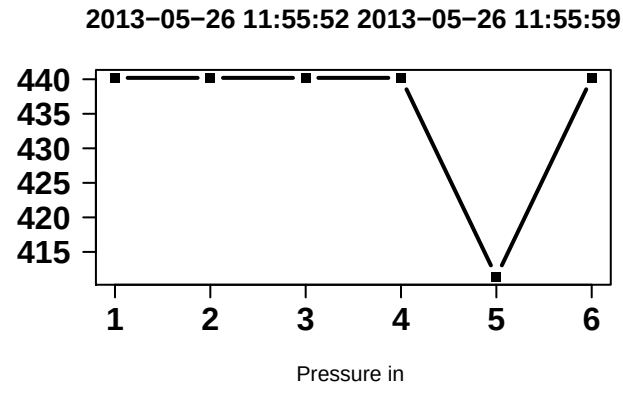

black 0.062 red 0.3
Seawater potential density anomaly
Seawater density
27.53
27.52
27.51
27.50
27.49
27.48
27.47
32.05
31.90
0
50
100
150
200

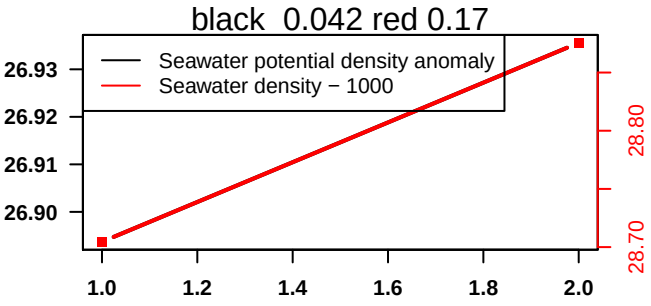

lovbio006b_024_00_06.txt
76
75
74
73
72
71
70
69
0
50
100
150
200
CDOM, [CN] / Points @ x s

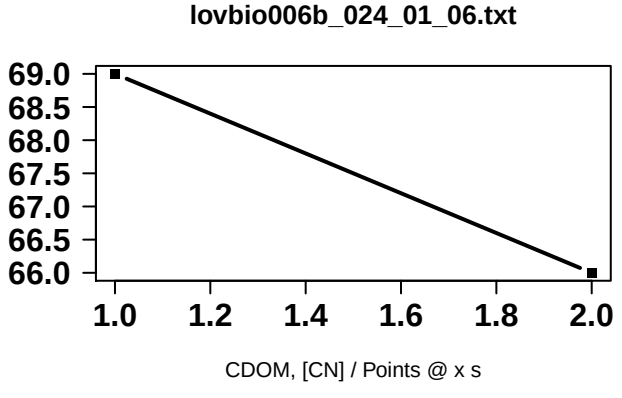

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

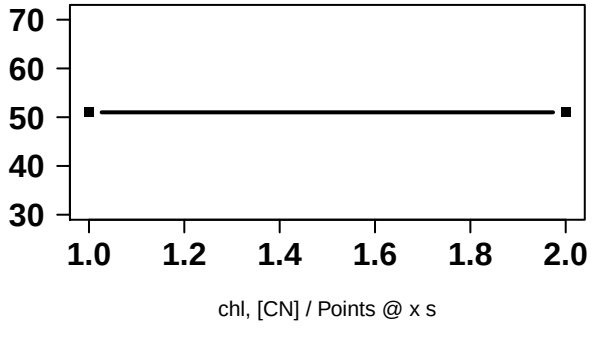

nb days: 8 freq: 57.3 min
400
300
200
100
0
50
100
150
200
beta, [CN] / Points @ x s

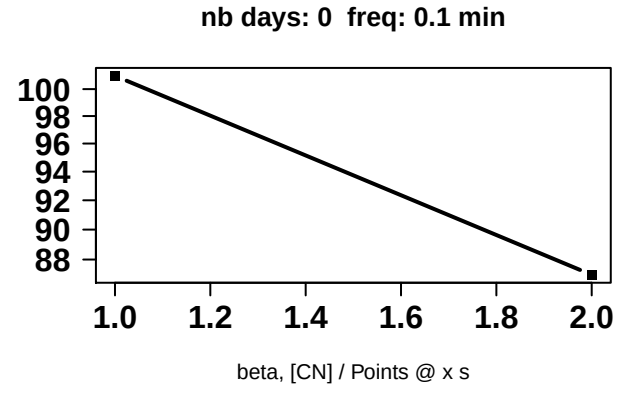

nb days: 8 freq: 57.3 min
0.20
0.19
0.18
0.17
0.16
0.15
0.14
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

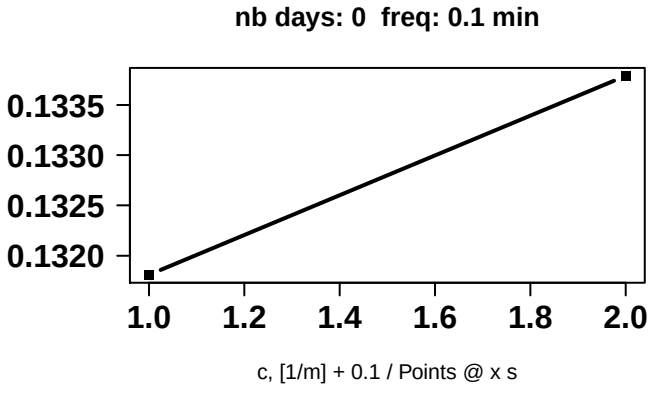

2013−05−26 11:55:52 2013−05−26 11:55:59
440
435
430
425
420
415
1
2
3
4
5
6
Pressure in

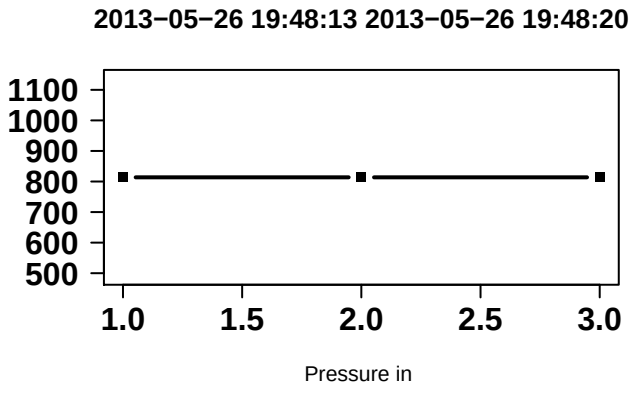

black 0.042 red 0.17
Seawater potential density anomaly
Seawater density − 1000
26.93
26.92
26.91
26.90
28.80
28.70
1.0
1.2
1.4
1.6
1.8
2.0

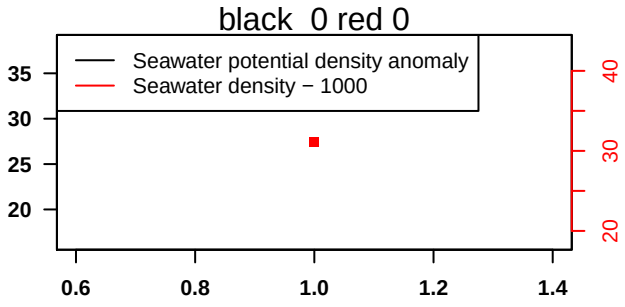

lovbio006b_024_01_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

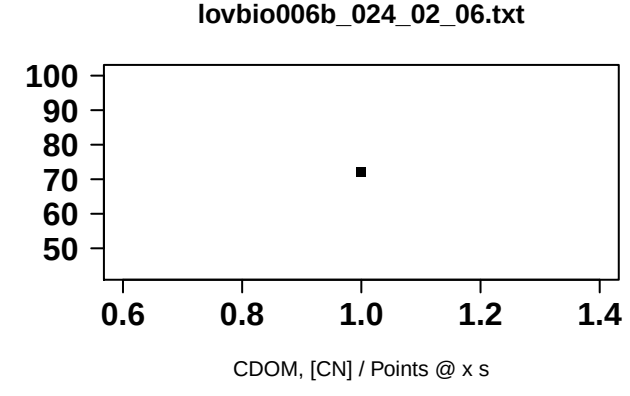

70
60
50
40
30
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

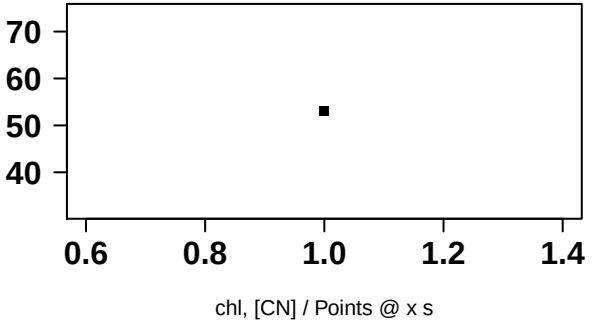

nb days: 0 freq: 0.1 min
100
98
96
94
92
90
88
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

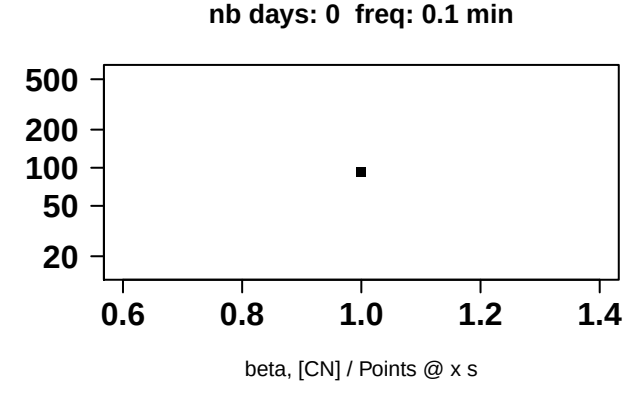

nb days: 0 freq: 0.1 min
0.1335
0.1330
0.1325
0.1320
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

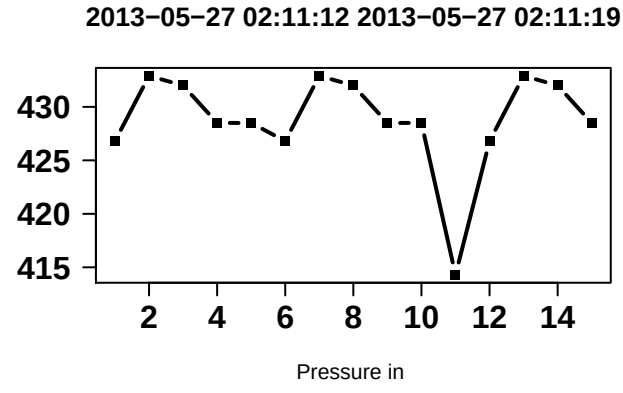

2013−05−26 19:48:13 2013−05−26 19:48:20
1100
1000
900
800
700
600
500
1.0
1.5
2.0
2.5
3.0
Pressure in

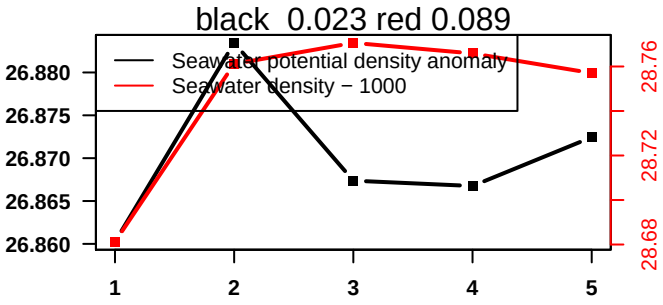

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

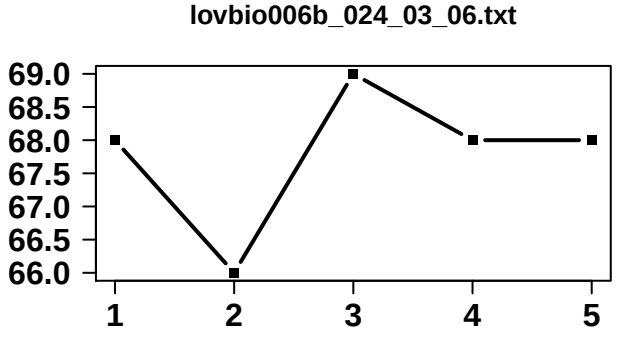

lovbio006b_024_02_06.txt
100
90
80
70
60
50
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

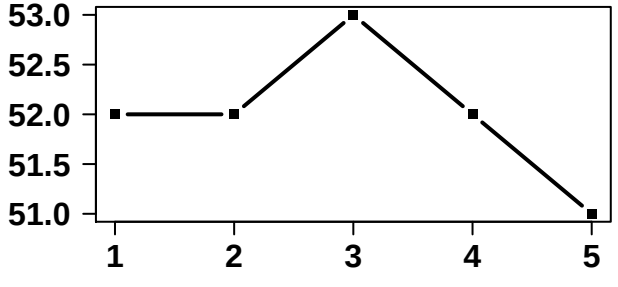

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

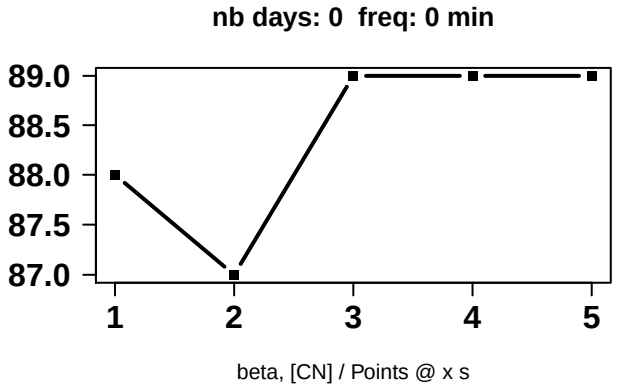

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

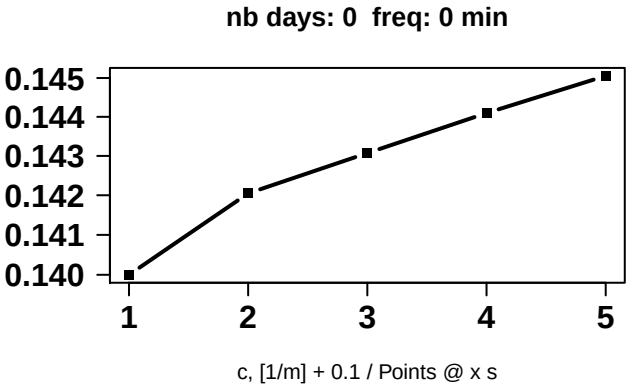

2013−05−27 02:11:12 2013−05−27 02:11:19
430
425
420
415
2
4
6
8
10
12
14
Pressure in

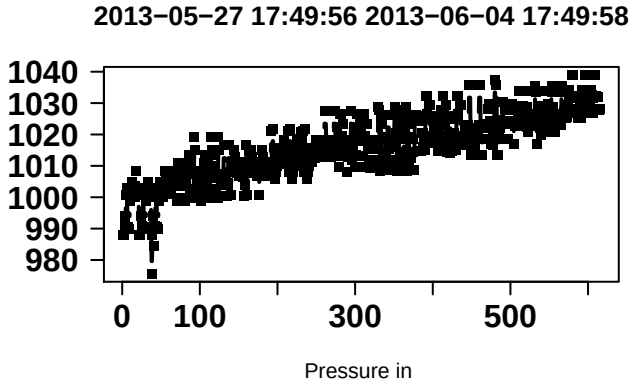

black 0.023 red 0.089
Seawater potential density anomaly
Seawater density − 1000
26.880
26.875
26.870
26.865
26.860
28.76
28.72
28.68
1
2
3
4
5

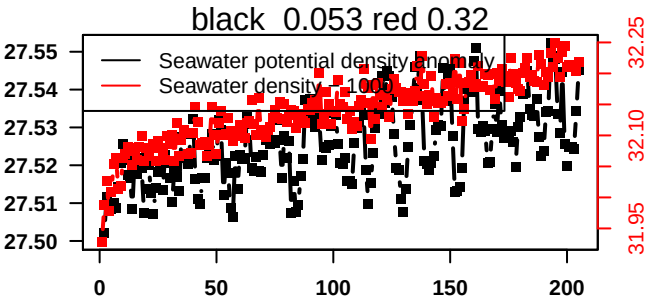

lovbio006b_024_03_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

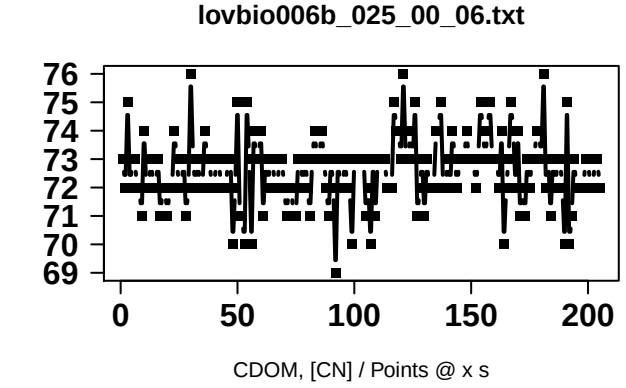

53.0
52.5
52.0
51.5
51.0
1
2
3
4
5
chl, [CN] / Points @ x s

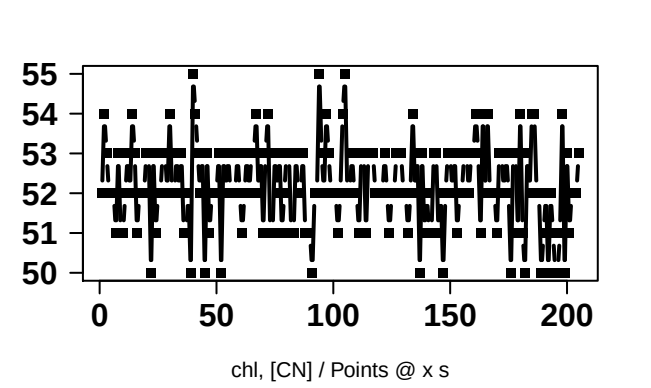

nb days: 0 freq: 0 min
89.0
88.5
88.0
87.5
87.0
1
2
3
4
5
beta, [CN] / Points @ x s

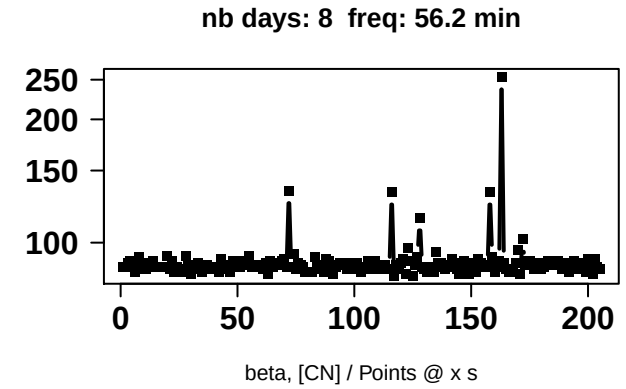

nb days: 0 freq: 0 min
0.145
0.144
0.143
0.142
0.141
0.140
1
2
3
4
5
c, [1/m] + 0.1 / Points @ x s

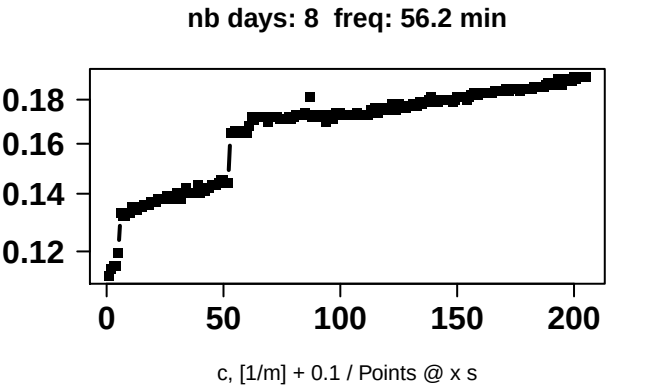

2013−05−27 17:49:56 2013−06−04 17:49:58
1040
1030
1020
1010
1000
990
980
0
100
300
500
Pressure in

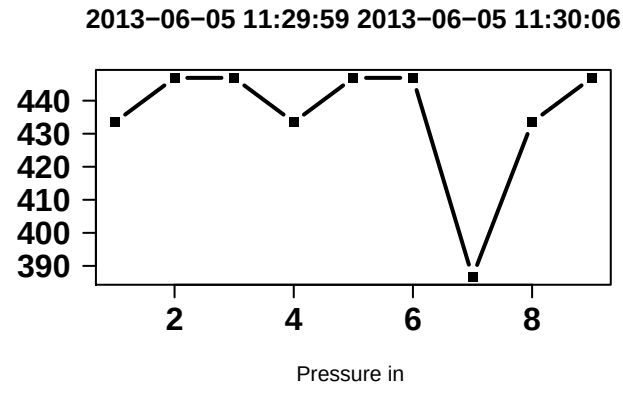

black 0.053 red 0.32
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
27.50
32.25
32.10
31.95
0
50
100
150
200

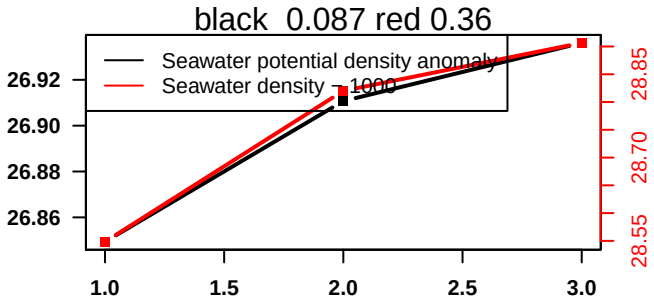

lovbio006b_025_00_06.txt
76
75
74
73
72
71
70
69
0
50
100
150
200
CDOM, [CN] / Points @ x s

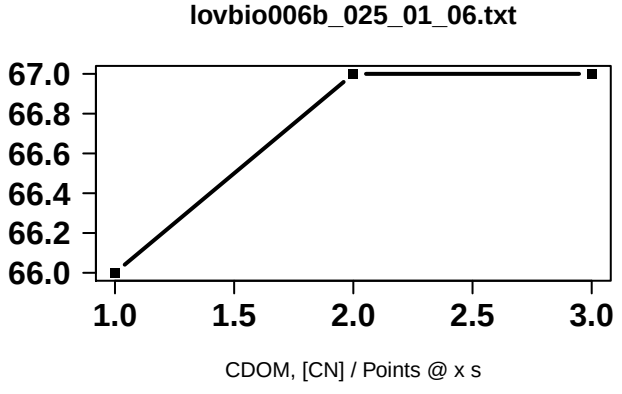

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

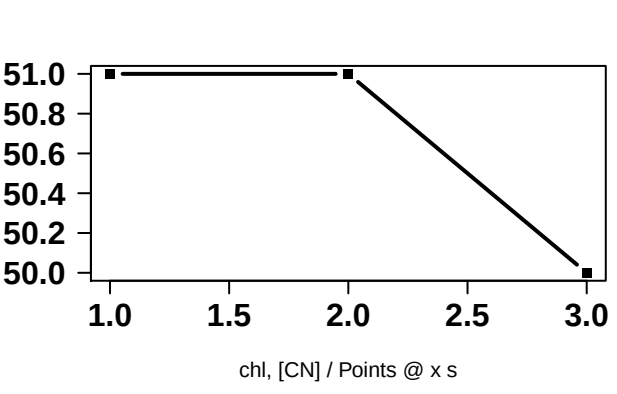

nb days: 8 freq: 56.2 min
250
200
150
100
0
50
100
150
200
beta, [CN] / Points @ x s

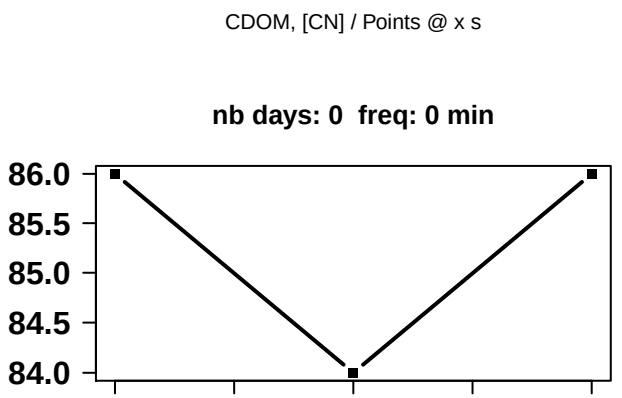

nb days: 8 freq: 56.2 min
0.18
0.16
0.14
0.12
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

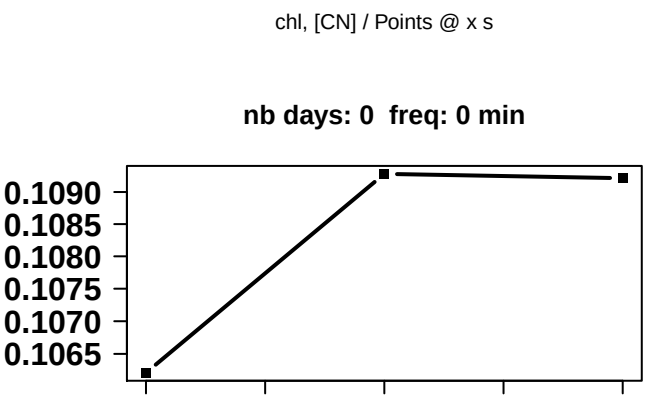

2013−06−05 11:29:59 2013−06−05 11:30:06
440
430
420
410
400
390
2
4
6
8
Pressure in

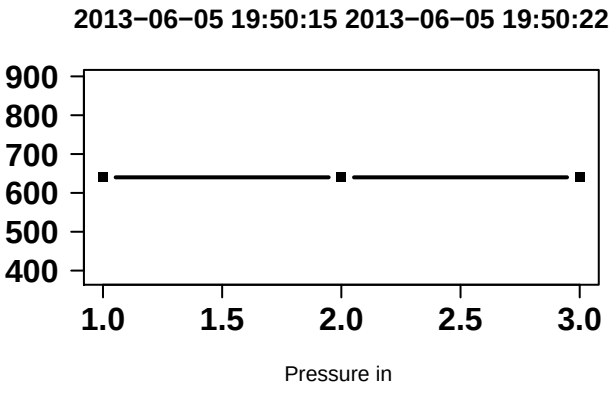

black 0.087 red 0.36
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
28.85
28.70
28.55
1.0
1.5
2.0
2.5
3.0

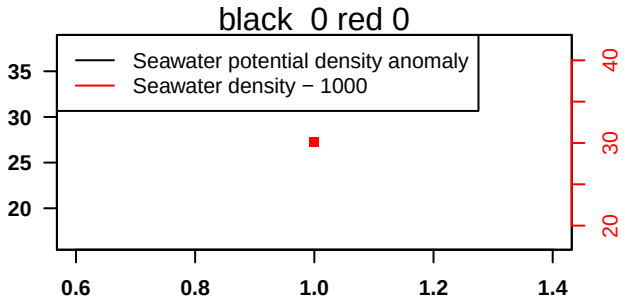

lovbio006b_025_01_06.txt
67.0
66.8
66.6
66.4
66.2
66.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

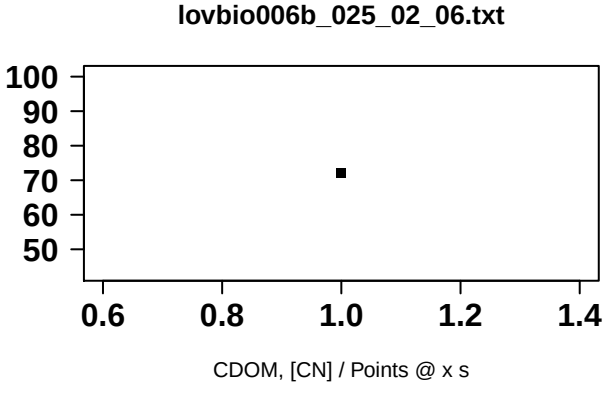

51.0
50.8
50.6
50.4
50.2
50.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

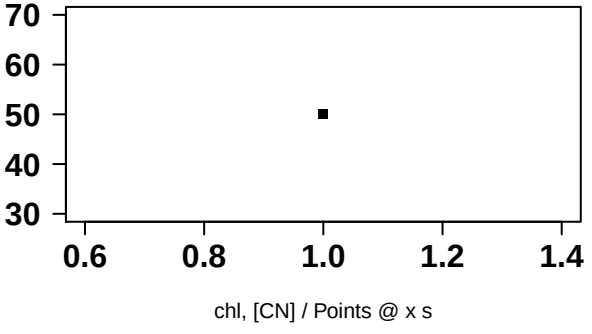

nb days: 0 freq: 0 min
86.0
85.5
85.0
84.5
84.0
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

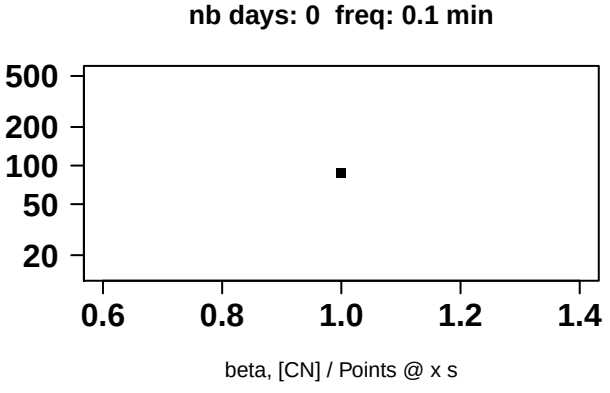

nb days: 0 freq: 0 min
0.1090
0.1085
0.1080
0.1075
0.1070
0.1065
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

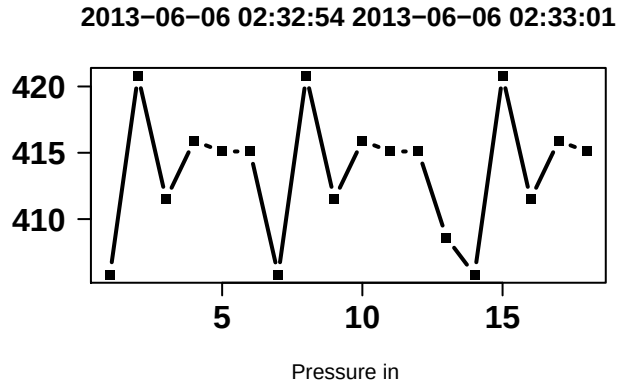

2013−06−05 19:50:15 2013−06−05 19:50:22
900
800
700
600
500
400
1.0
1.5
2.0
2.5
3.0
Pressure in

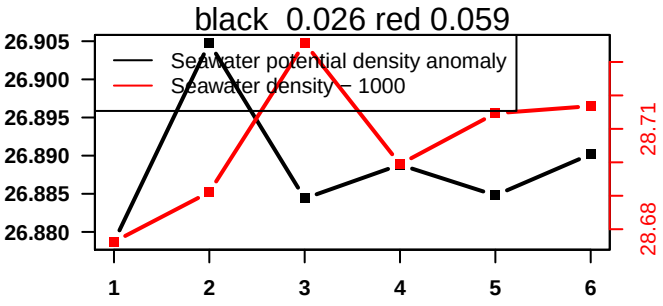

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
30
20

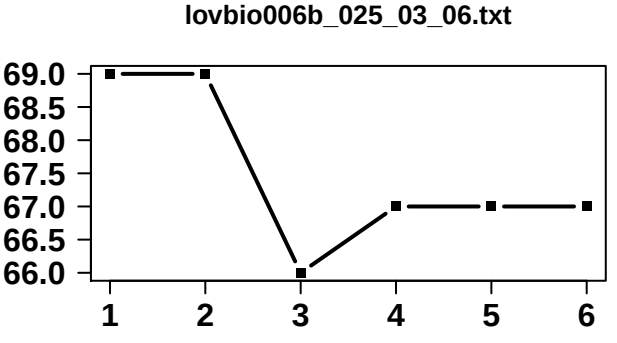

lovbio006b_025_02_06.txt
100
90
80
70
60
50
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

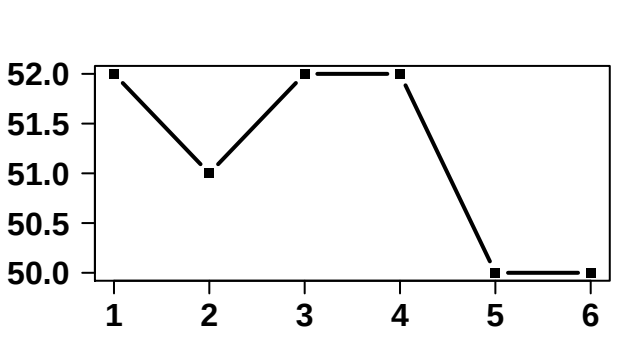

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

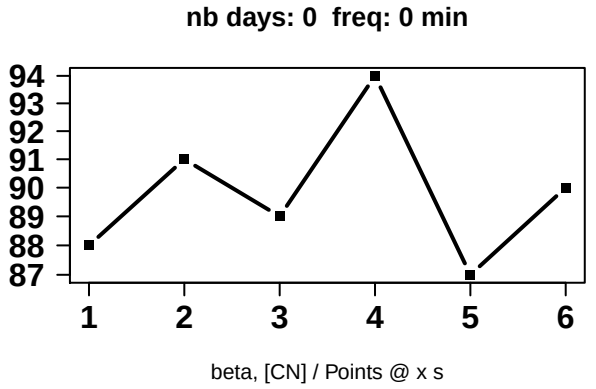

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

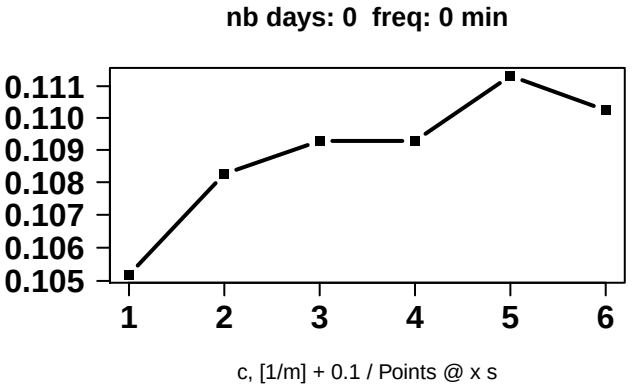

2013−06−06 02:32:54 2013−06−06 02:33:01
420
415
410
5
10
15
Pressure in

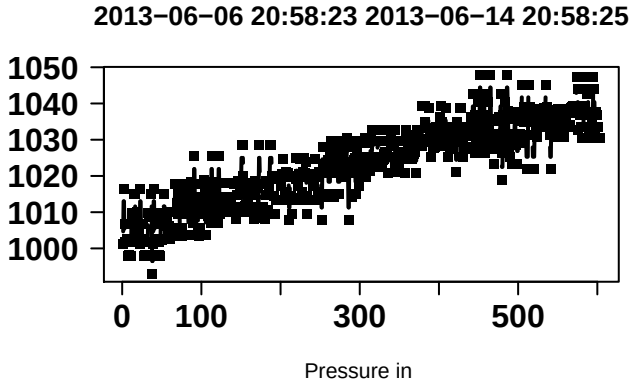

black 0.026 red 0.059
Seawater potential density anomaly
Seawater density − 1000
26.905
26.900
26.895
26.890
26.885
26.880
28.71
28.68
1
2
3
4
5
6

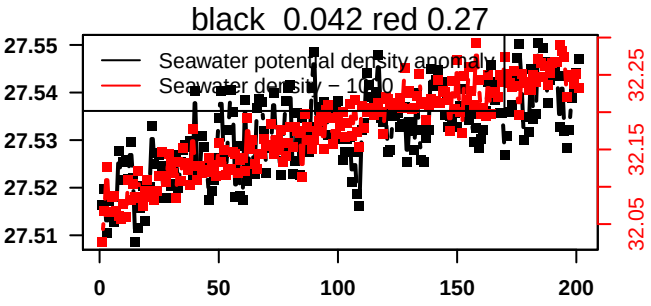

lovbio006b_025_03_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

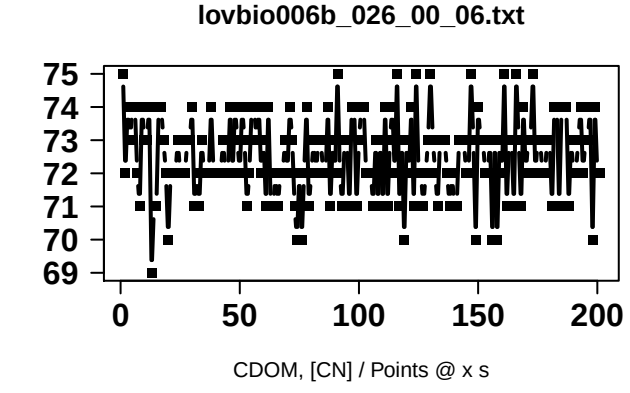

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

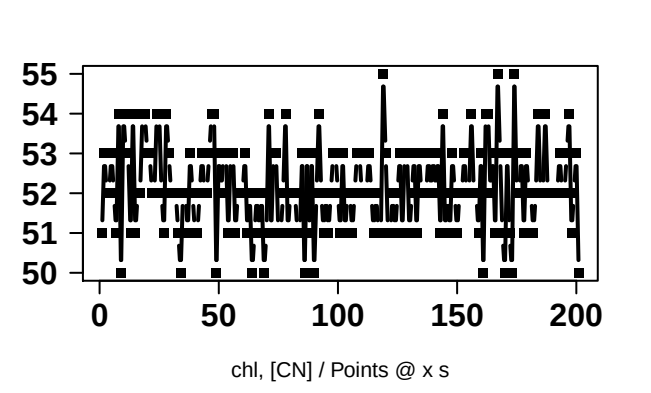

nb days: 0 freq: 0 min
94
93
92
91
90
89
88
87
1
2
3
4
5
6
beta, [CN] / Points @ x s

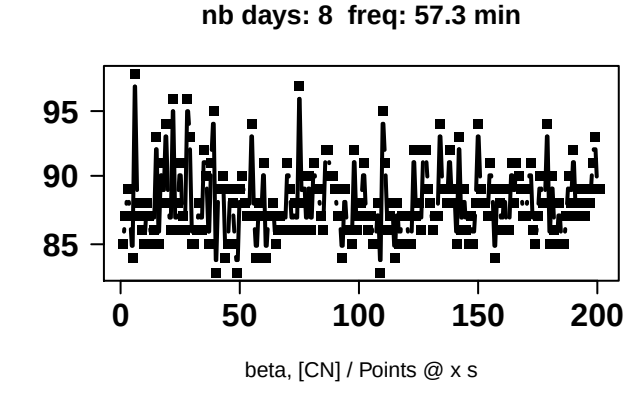

nb days: 0 freq: 0 min
0.111
0.110
0.109
0.108
0.107
0.106
0.105
1
2
3
4
5
6
c, [1/m] + 0.1 / Points @ x s

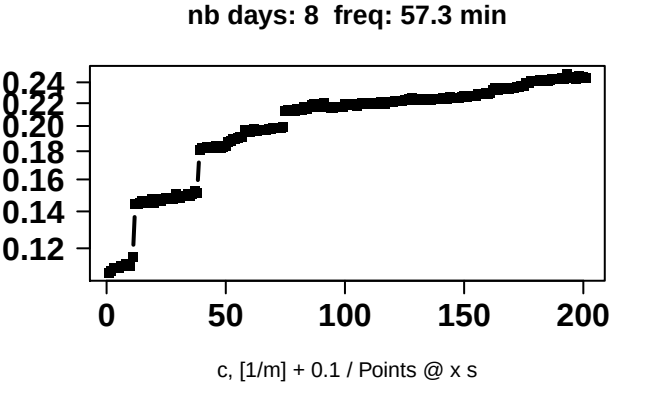

2013−06−06 20:58:23 2013−06−14 20:58:25
1050
1040
1030
1020
1010
1000
0
100
300
500
Pressure in

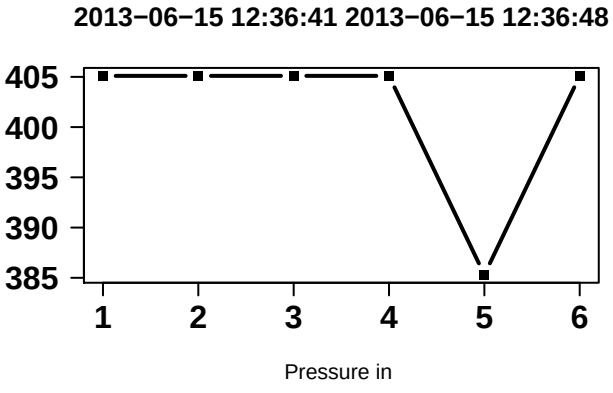

black 0.042 red 0.27
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
32.25
32.15
32.05
0
50
100
150
200

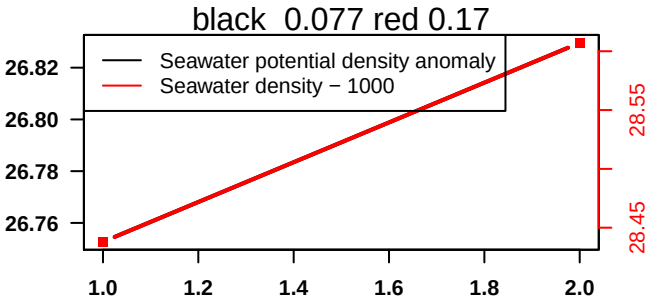

lovbio006b_026_00_06.txt
75
74
73
72
71
70
69
0
50
100
150
200
CDOM, [CN] / Points @ x s

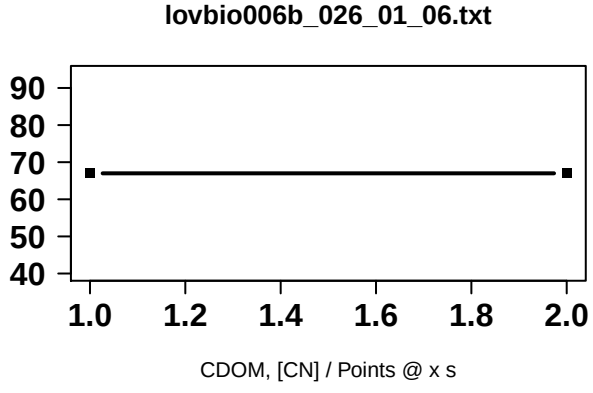

55
54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

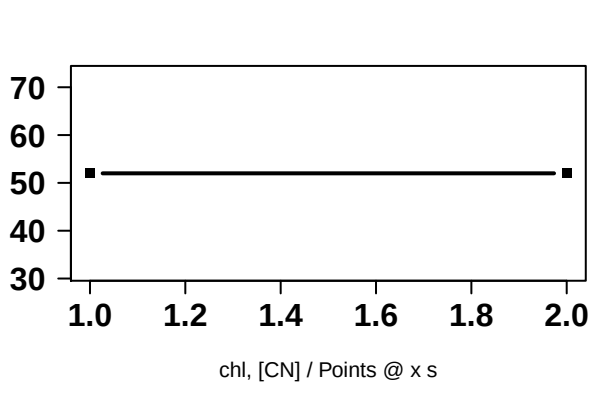

nb days: 8 freq: 57.3 min
95
90
85
0
50
100
150
200
beta, [CN] / Points @ x s

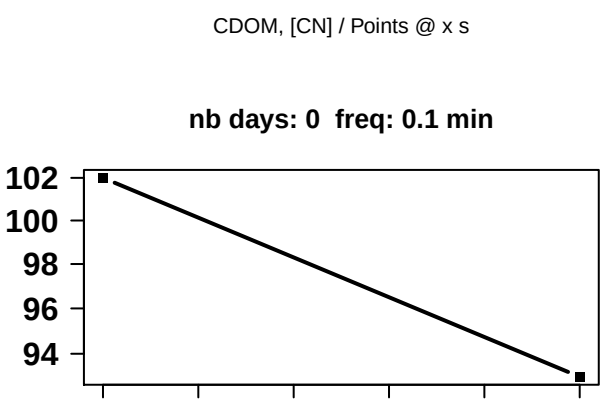

nb days: 8 freq: 57.3 min
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

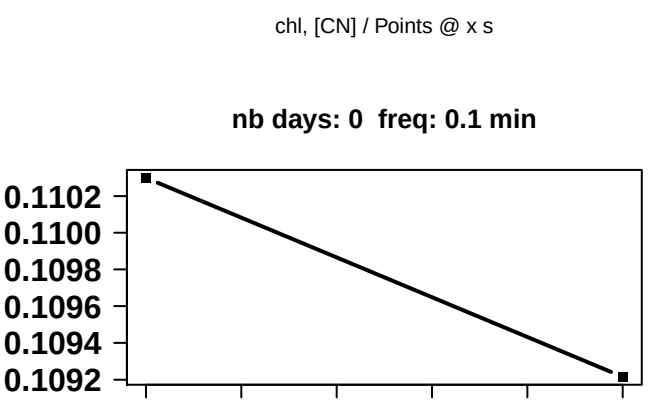

2013−06−15 12:36:41 2013−06−15 12:36:48
405
400
395
390
385
1
2
3
4
5
6
Pressure in

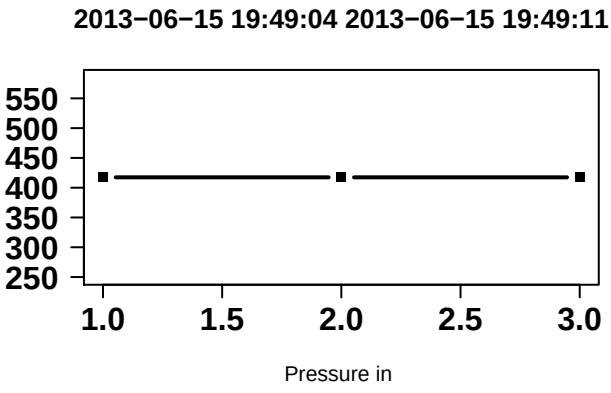

black 0.077 red 0.17
Seawater potential density anomaly
Seawater density − 1000
26.82
26.80
26.78
26.76
1.0
1.2
1.4
1.6
1.8
2.0
28.55
28.45

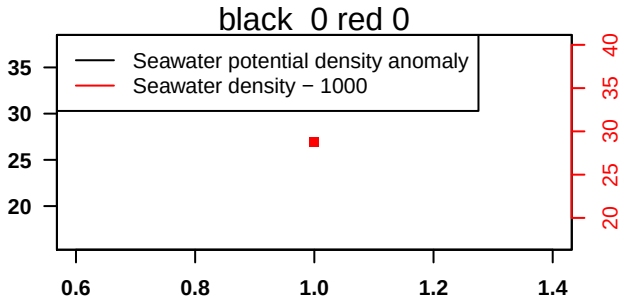

lovbio006b_026_01_06.txt
90
80
70
60
50
40
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

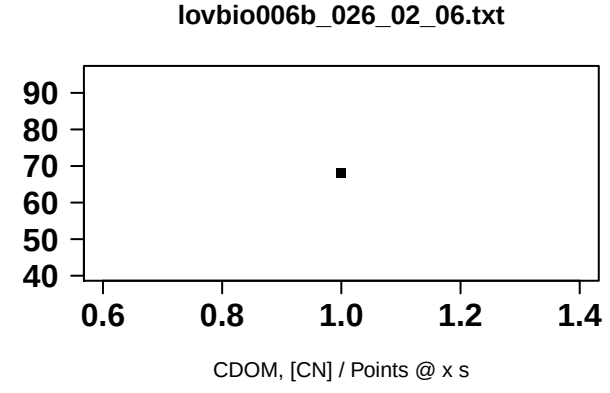

70
60
50
40
30
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

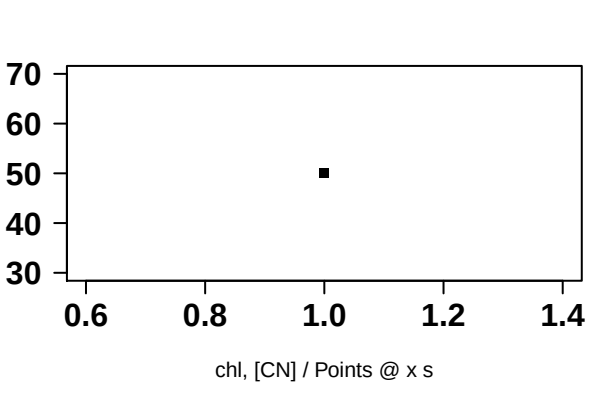

nb days: 0 freq: 0.1 min
102
100
98
96
94
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

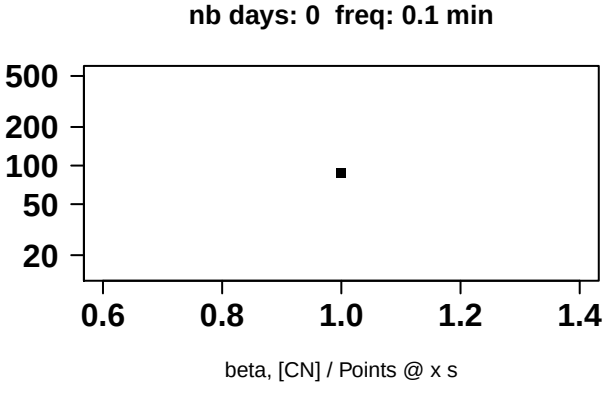

nb days: 0 freq: 0.1 min
0.1102
0.1100
0.1098
0.1096
0.1094
0.1092
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

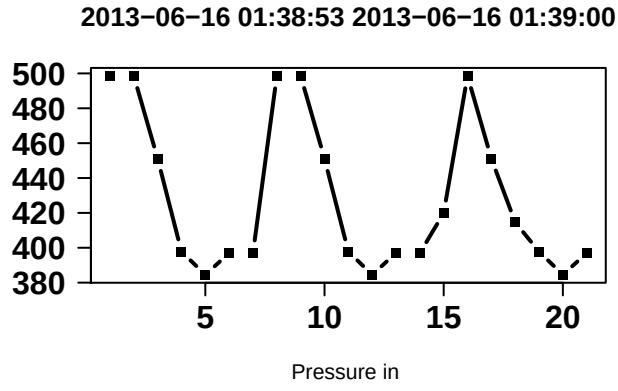

2013−06−15 19:49:04 2013−06−15 19:49:11
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

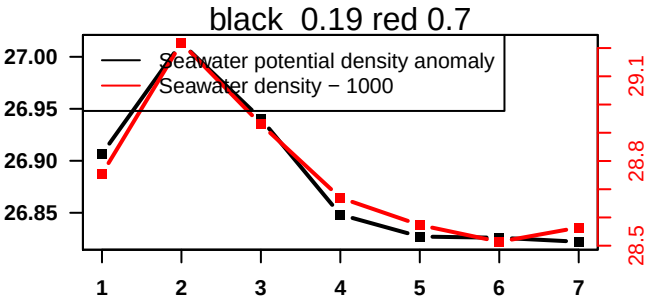

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

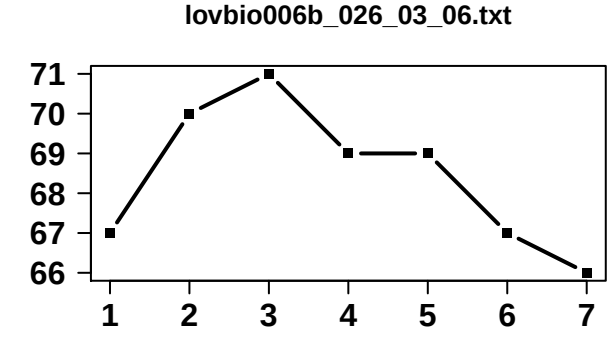

lovbio006b_026_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

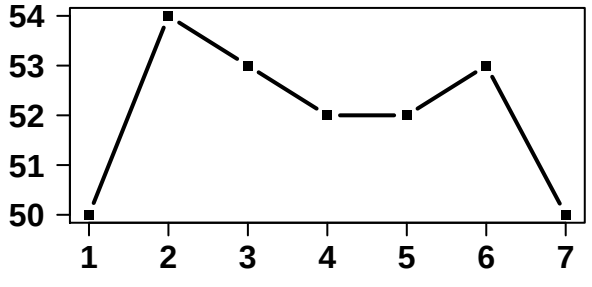

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

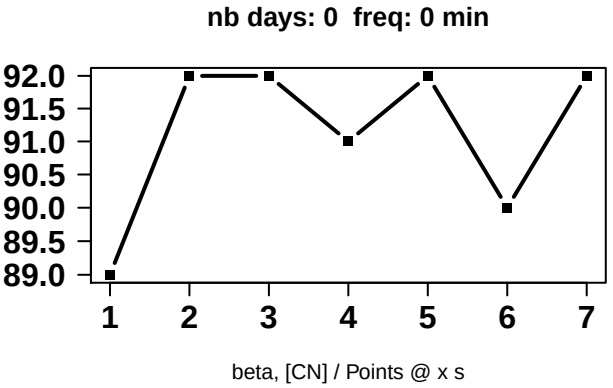

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

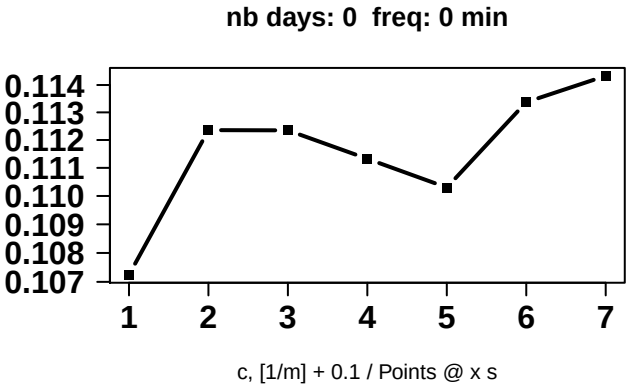

2013−06−16 01:38:53 2013−06−16 01:39:00
500
480
460
440
420
400
380
5
10
15
20
Pressure in

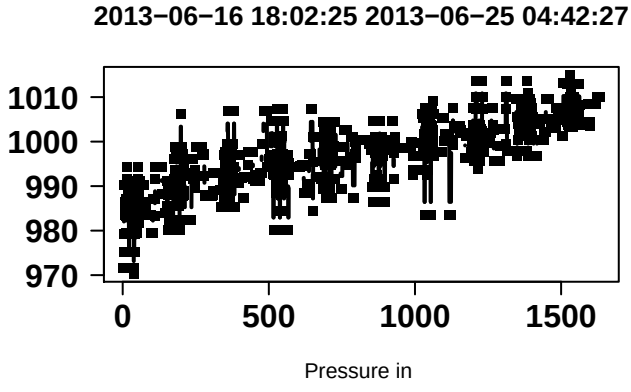

black 0.19 red 0.7
Seawater potential density anomaly
Seawater density − 1000
27.00
26.95
26.90
26.85
29.1
28.8
28.5
1
2
3
4
5
6
7

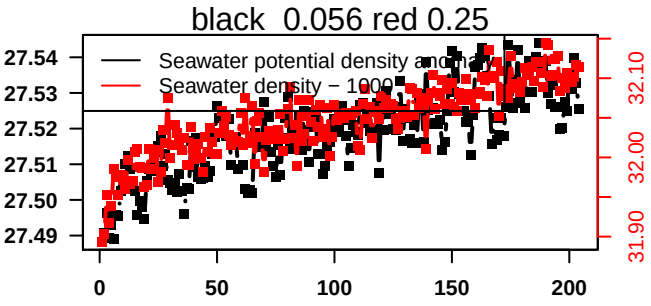

lovbio006b_026_03_06.txt
71
70
69
68
67
66
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

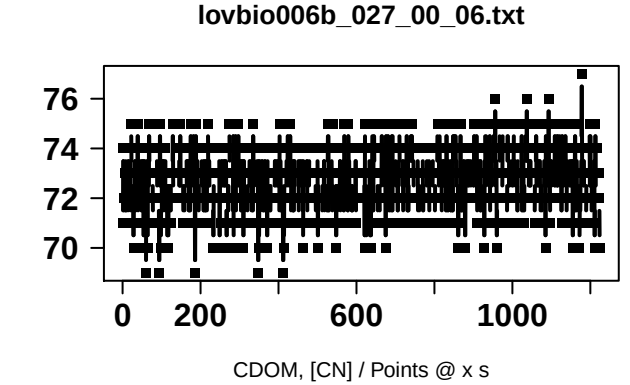

54
53
52
51
50
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

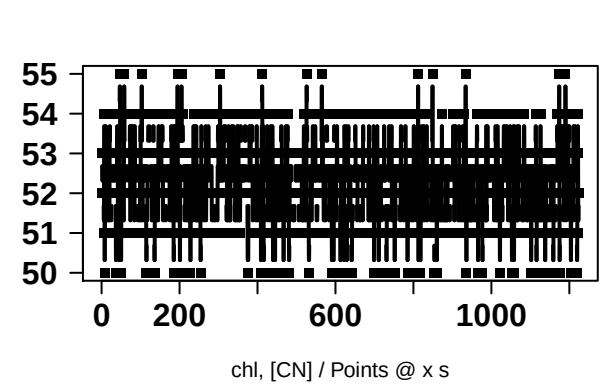

nb days: 0 freq: 0 min
92.0
91.5
91.0
90.5
90.0
89.5
89.0
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

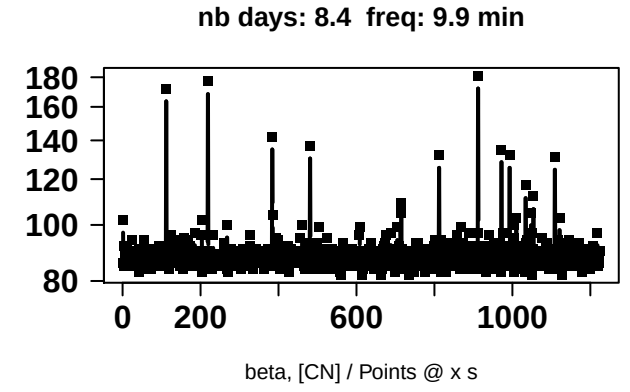

nb days: 0 freq: 0 min
0.114
0.113
0.112
0.111
0.110
0.109
0.108
0.107
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

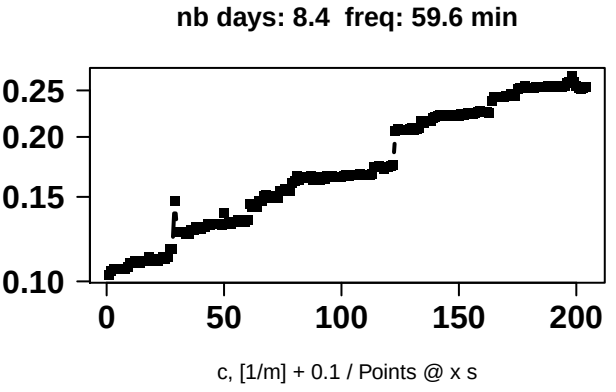

2013−06−16 18:02:25 2013−06−25 04:42:27
1010
1000
990
980
970
0
500
1000
1500
Pressure in

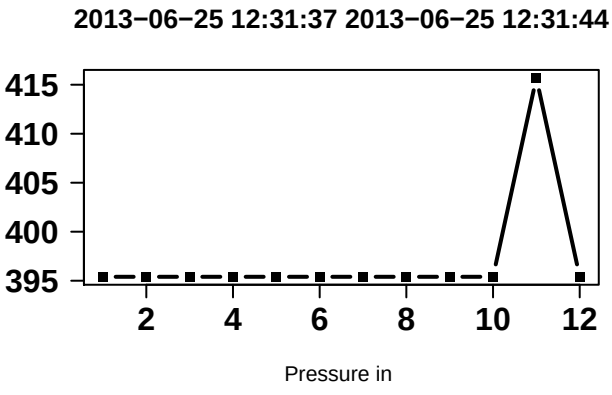

black 0.056 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
27.49
32.10
32.00
31.90
0
50
100
150
200

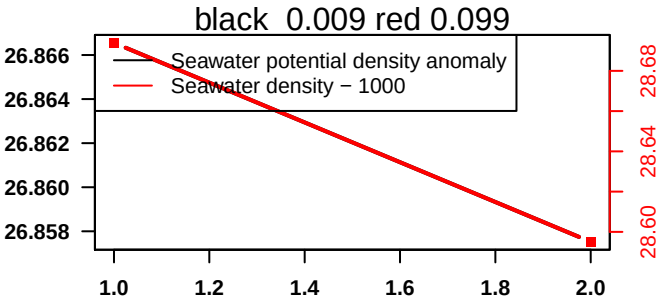

lovbio006b_027_00_06.txt
76
74
72
70
0
200
600
1000
CDOM, [CN] / Points @ x s

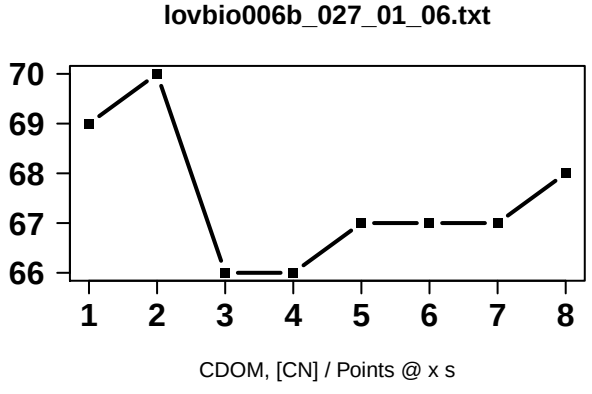

55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

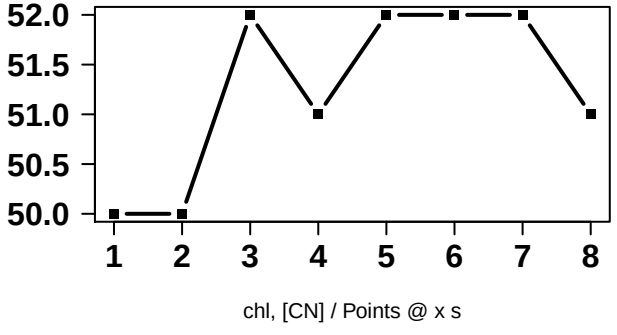

nb days: 8.4 freq: 9.9 min
180
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

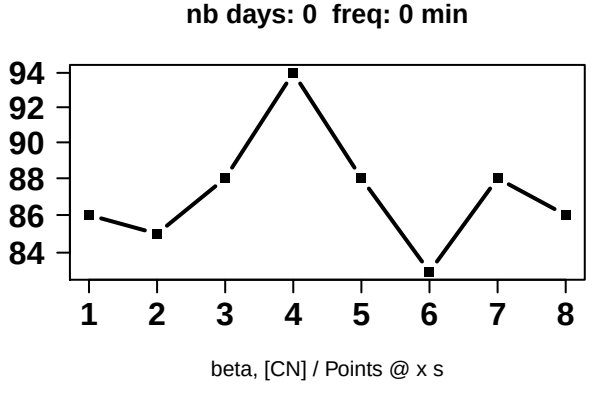

nb days: 8.4 freq: 59.6 min
0.25
0.20
0.15
0.10
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

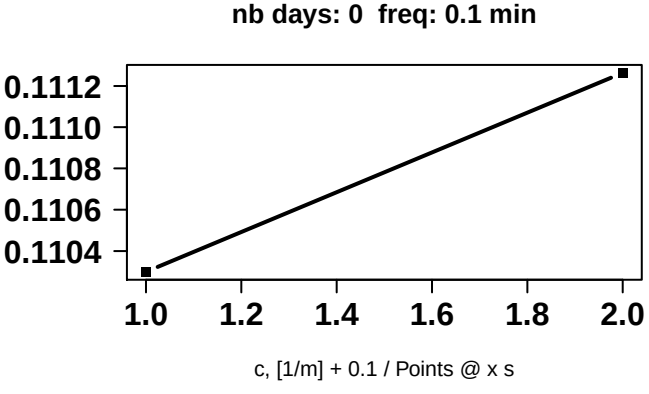

2013−06−25 12:31:37 2013−06−25 12:31:44
415
410
405
400
395
2
4
6
8
10
12
Pressure in

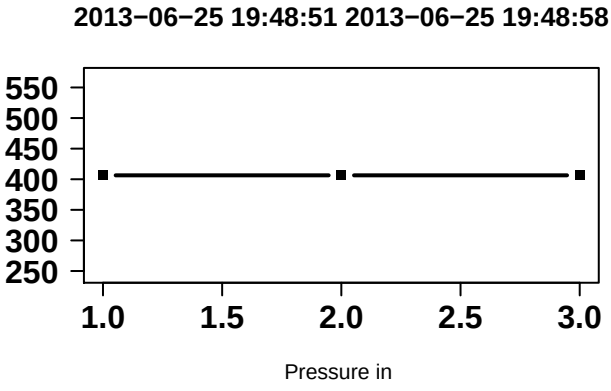

black 0.009 red 0.099
Seawater potential density anomaly
Seawater density − 1000
26.866
26.864
26.862
26.860
26.858
28.68
28.64
28.60
1.0
1.2
1.4
1.6
1.8
2.0

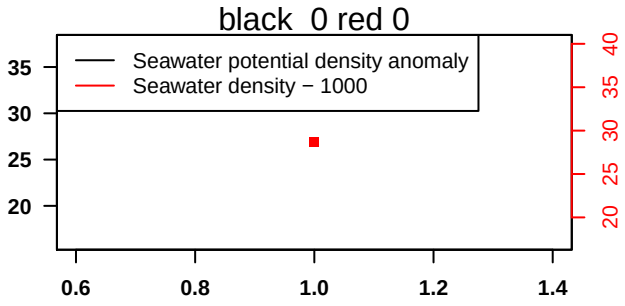

lovbio006b_027_01_06.txt
70
69
68
67
66
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

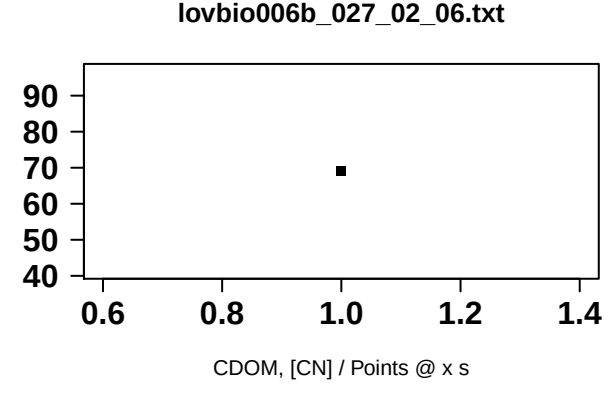

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

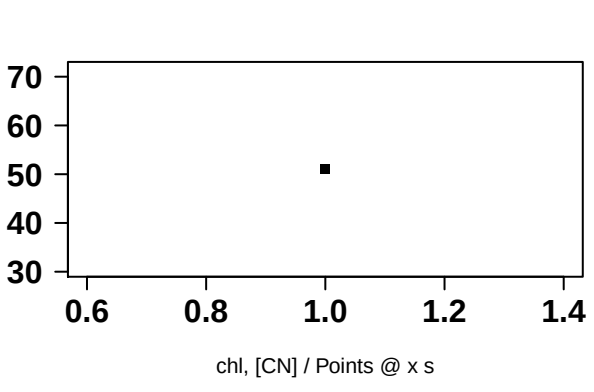

nb days: 0 freq: 0 min
94
92
90
88
86
84
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

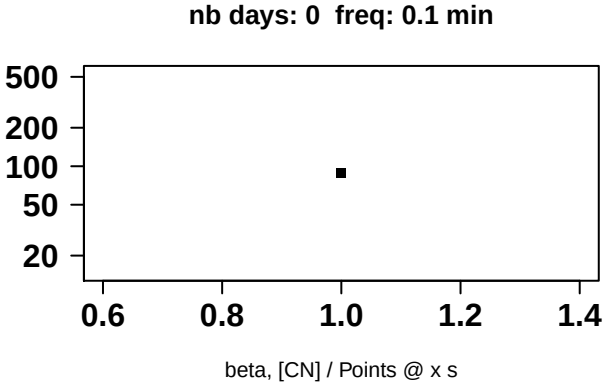

nb days: 0 freq: 0.1 min
0.1112
0.1110
0.1108
0.1106
0.1104
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

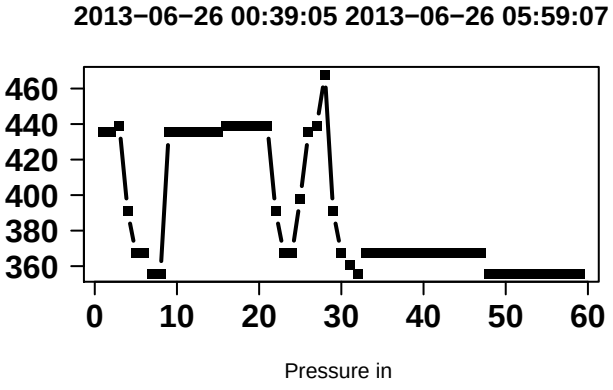

2013−06−25 19:48:51 2013−06−25 19:48:58
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

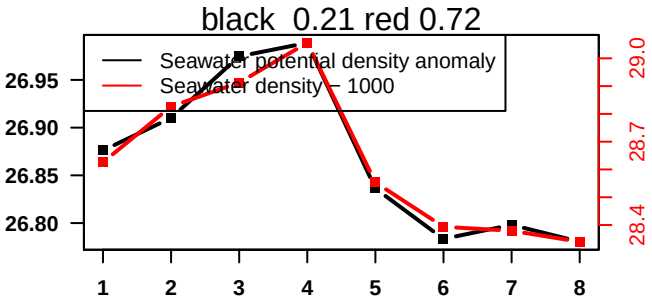

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

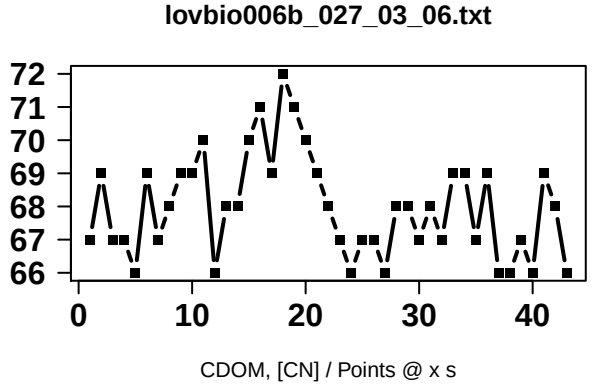

lovbio006b_027_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

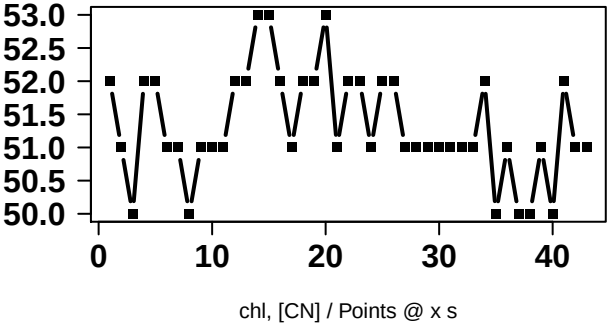

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

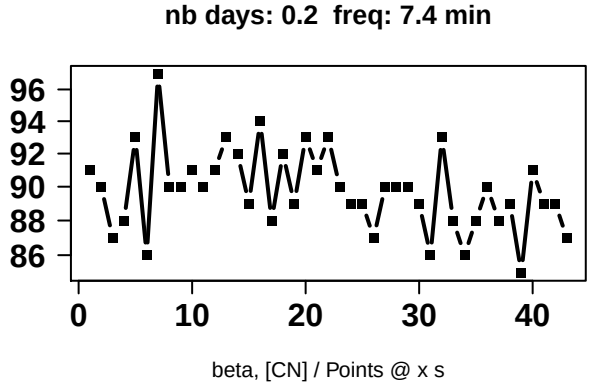

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

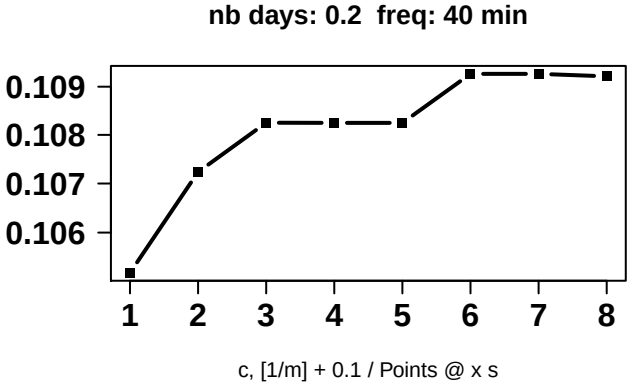

2013−06−26 00:39:05 2013−06−26 05:59:07
460
440
420
400
380
360
0
10
20
30
40
50
60
Pressure in

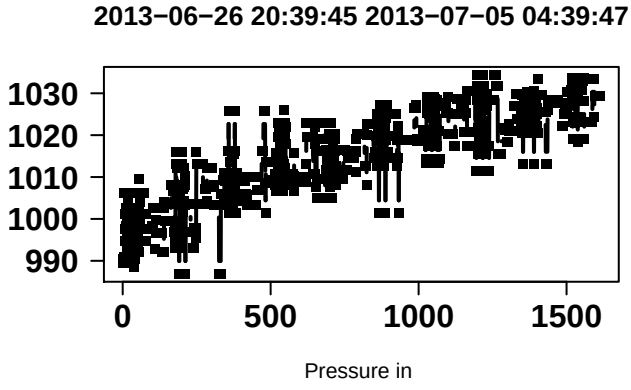

black 0.21 red 0.72
Seawater potential density anomaly
Seawater density − 1000
26.95
26.90
26.85
26.80
29.0
28.7
28.4
1
2
3
4
5
6
7
8

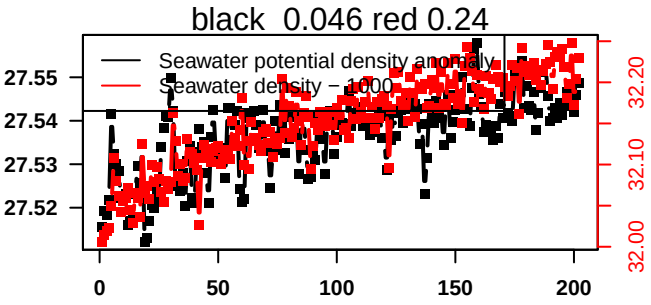

lovbio006b_027_03_06.txt
72
71
70
69
68
67
66
0
10
20
30
40
CDOM, [CN] / Points @ x s

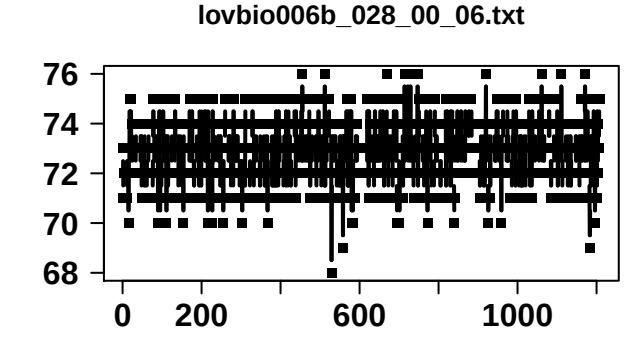

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
chl, [CN] / Points @ x s

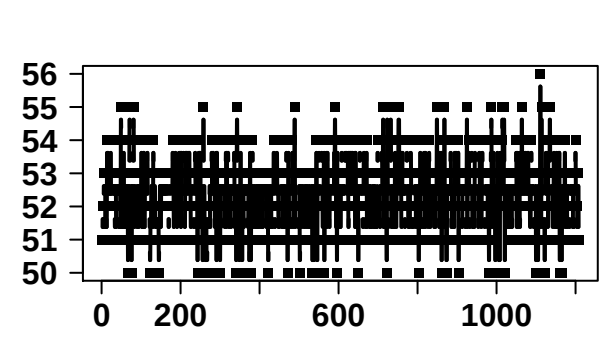

nb days: 0.2 freq: 7.4 min
96
94
92
90
88
86
0
10
20
30
40
beta, [CN] / Points @ x s

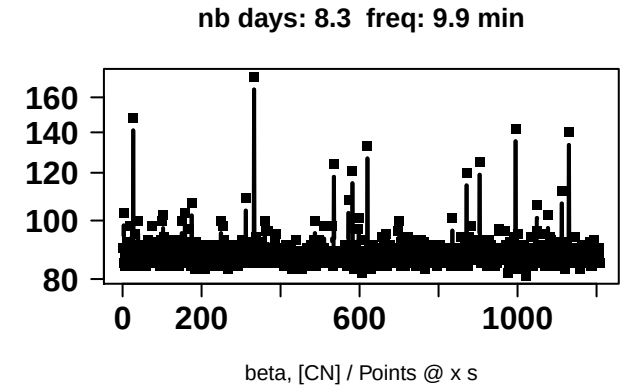

nb days: 0.2 freq: 40 min
0.109
0.108
0.107
0.106
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

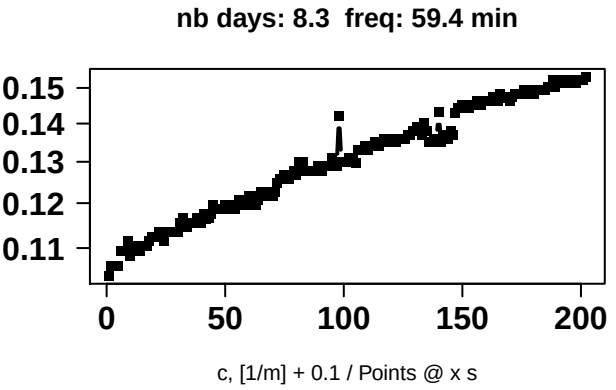

2013−06−26 20:39:45 2013−07−05 04:39:47
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

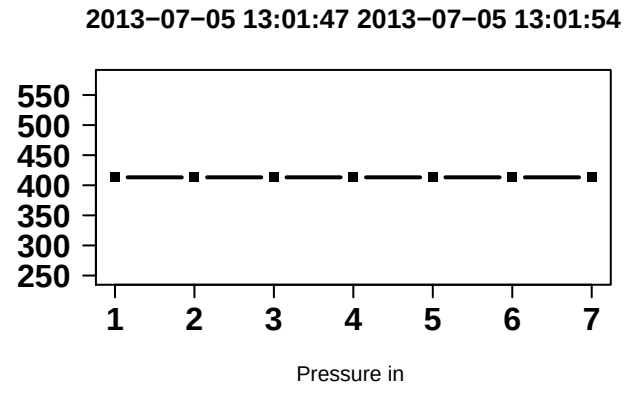

black 0.046 red 0.24
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
32.20
32.10
32.00
0
50
100
150
200

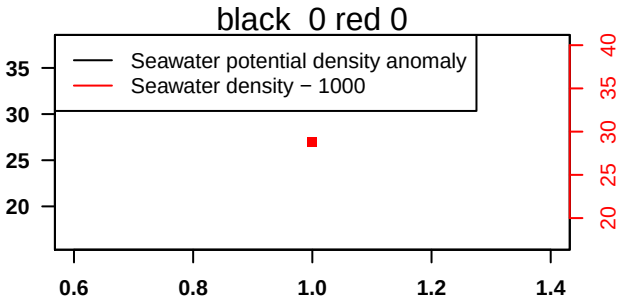

lovbio006b_028_00_06.txt
76
74
72
70
68
0
200
600
1000
CDOM, [CN] / Points @ x s

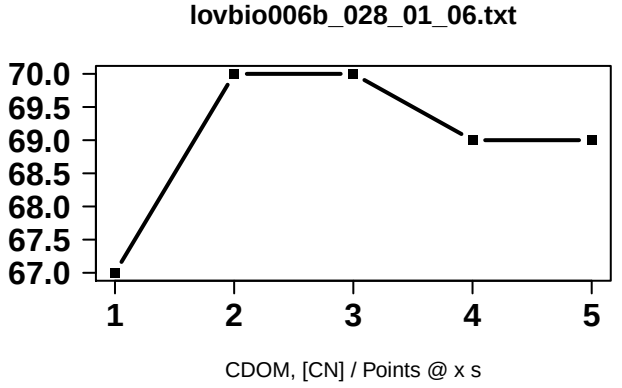

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

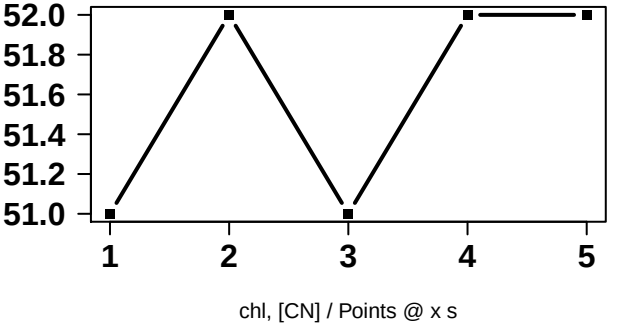

nb days: 8.3 freq: 9.9 min
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

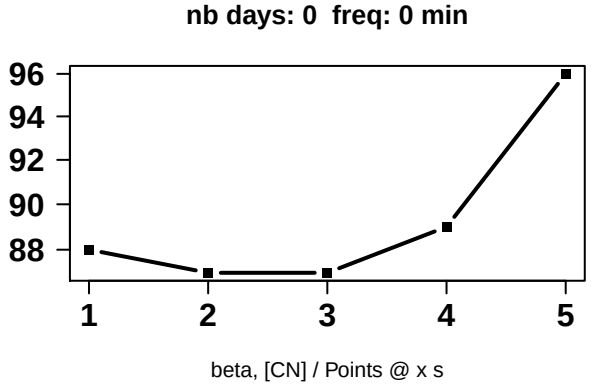

nb days: 8.3 freq: 59.4 min
0.15
0.14
0.13
0.12
0.11
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

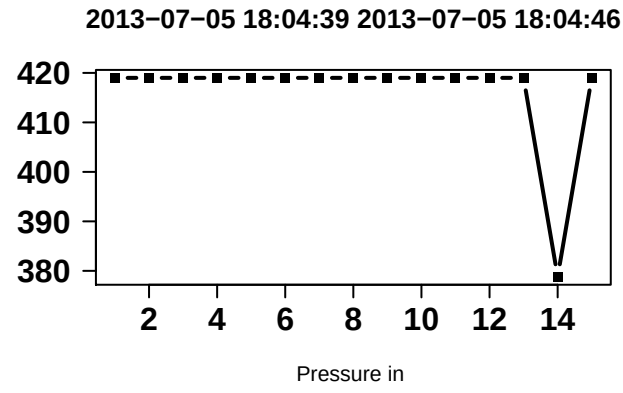

2013−07−05 13:01:47 2013−07−05 13:01:54
550
500
450
400
350
300
250
1
2
3
4
5
6
7
Pressure in

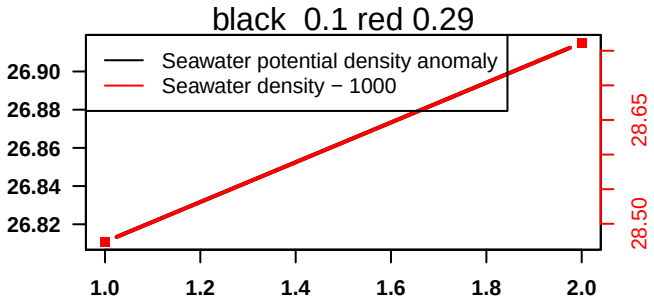

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

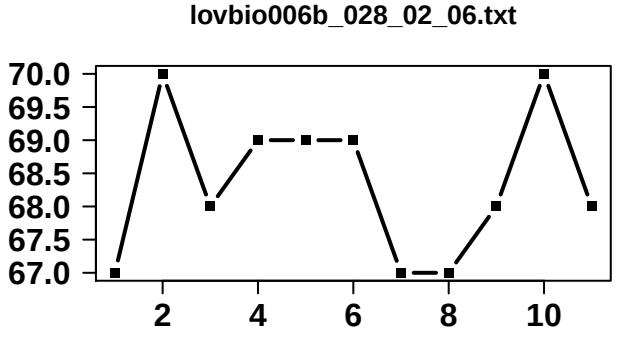

lovbio006b_028_01_06.txt
70.0
69.5
69.0
68.5
68.0
67.5
67.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

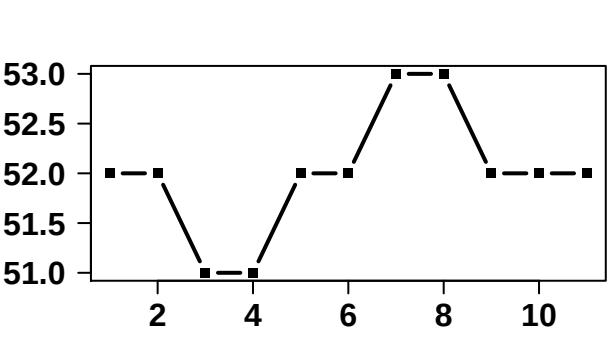

52.0
51.8
51.6
51.4
51.2
51.0
1
2
3
4
5
chl, [CN] / Points @ x s

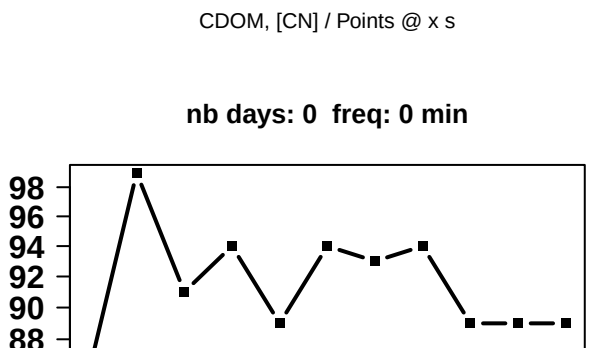

nb days: 0 freq: 0 min
96
94
92
90
88
1
2
3
4
5
beta, [CN] / Points @ x s

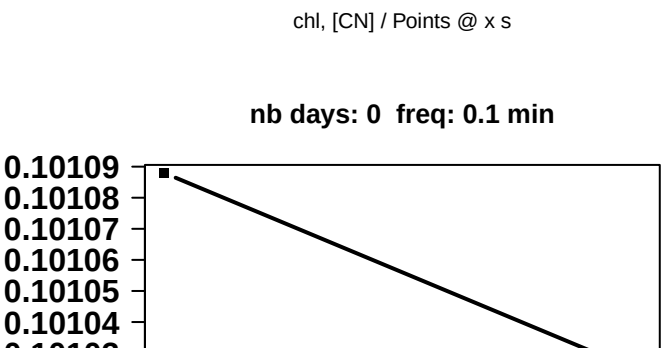

2013−07−05 18:04:39 2013−07−05 18:04:46
420
410
400
390
380
2
4
6
8
10
12
14
Pressure in

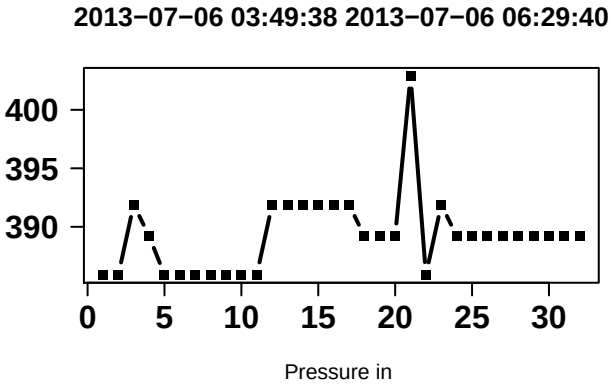

black 0.1 red 0.29
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
28.65
28.50
1.0
1.2
1.4
1.6
1.8
2.0

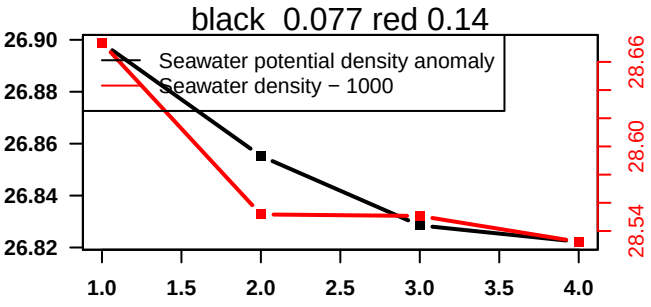

lovbio006b_028_02_06.txt
70.0
69.5
69.0
68.5
68.0
67.5
67.0
2
4
6
8
10
CDOM, [CN] / Points @ x s

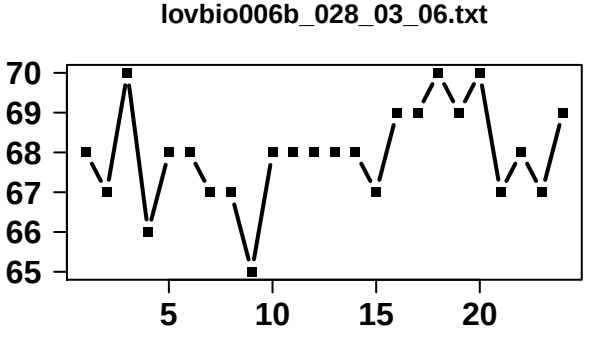

53.0
52.5
52.0
51.5
51.0
2
4
6
8
10
chl, [CN] / Points @ x s

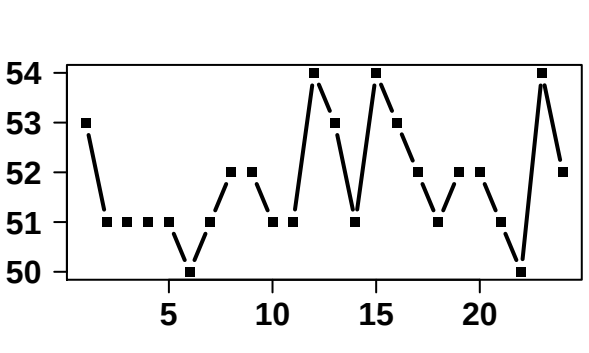

nb days: 0 freq: 0 min
98
96
94
92
90
88
86
2
4
6
8
10
beta, [CN] / Points @ x s

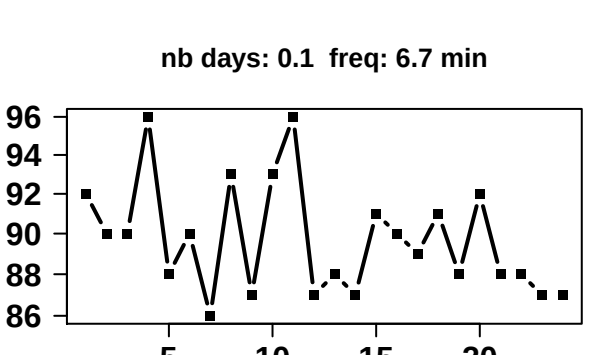

nb days: 0 freq: 0.1 min
0.10109
0.10108
0.10107
0.10106
0.10105
0.10104
0.10103
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

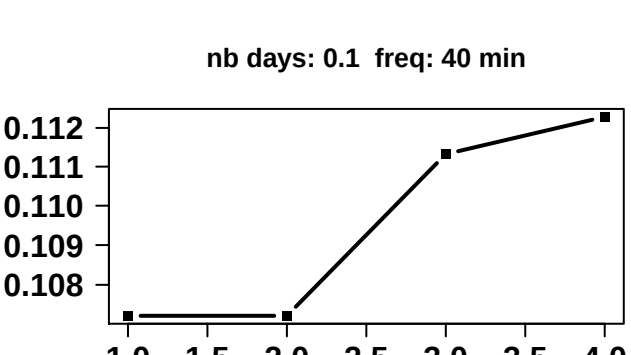

2013−07−06 03:49:38 2013−07−06 06:29:40
400
395
390
0
5
10
15
20
25
30
Pressure in

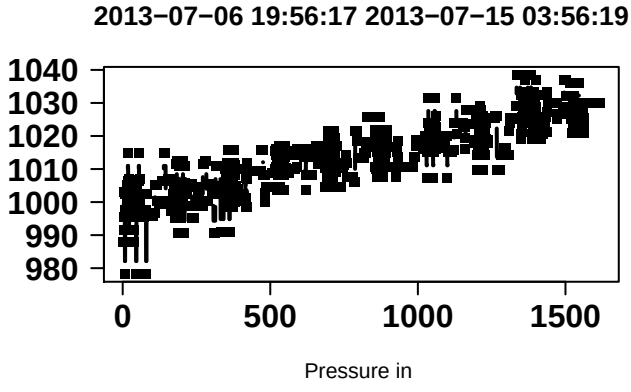

black 0.077 red 0.14
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
28.66
28.60
28.54
1.0
1.5
2.0
2.5
3.0
3.5
4.0

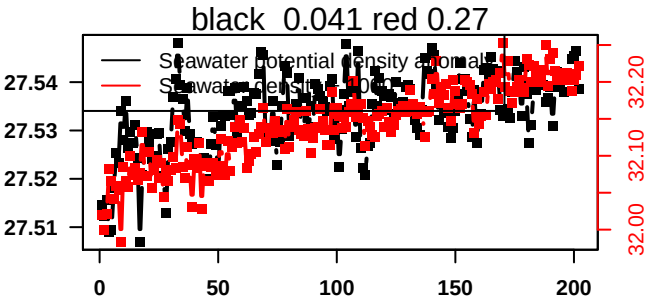

lovbio006b_028_03_06.txt
70
69
68
67
66
65
5
10
15
20
CDOM, [CN] / Points @ x s

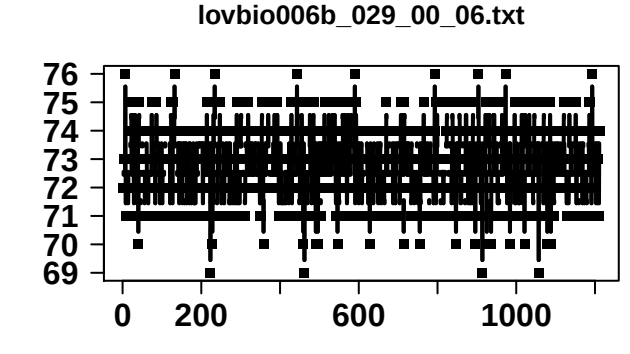

54
53
52
51
50
5
10
15
20
chl, [CN] / Points @ x s

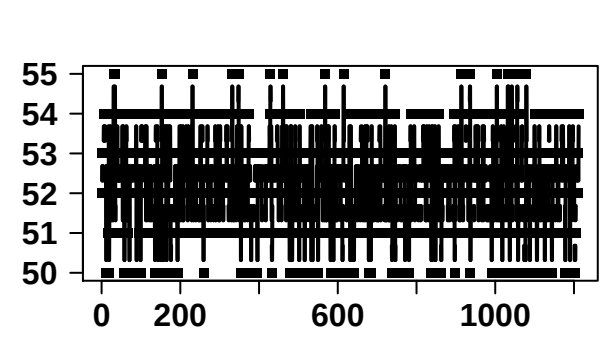

nb days: 0.1 freq: 6.7 min
96
94
92
90
88
86
5
10
15
20
beta, [CN] / Points @ x s

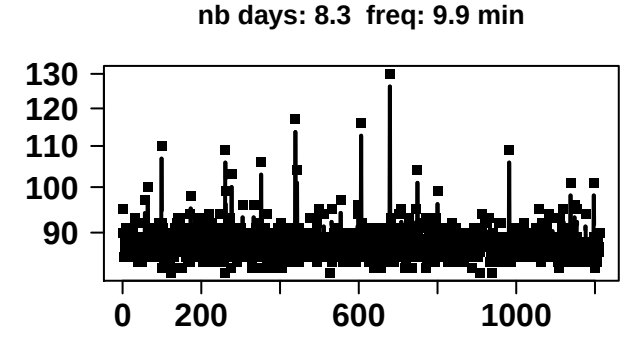

nb days: 0.1 freq: 40 min
0.112
0.111
0.110
0.109
0.108
1.0
1.5
2.0
2.5
3.0
3.5
4.0
c, [1/m] + 0.1 / Points @ x s

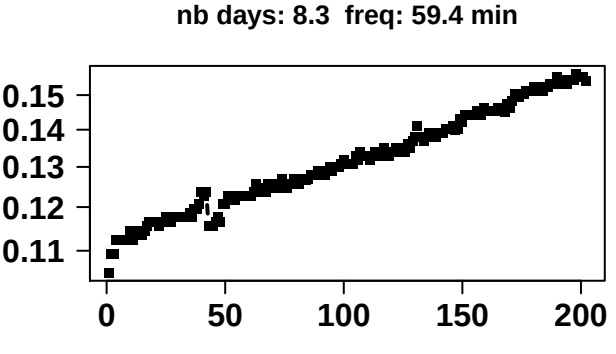

2013−07−06 19:56:17 2013−07−15 03:56:19
1040
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

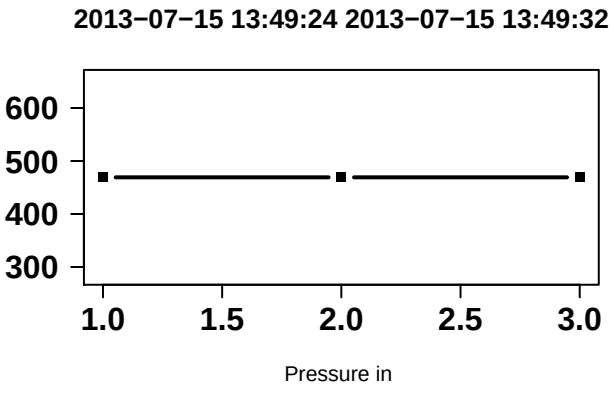

black 0.041 red 0.27
Seawater potential density anomaly
27.54
27.53
27.52
27.51
0
50
100
150
200
32.20
32.10
32.00

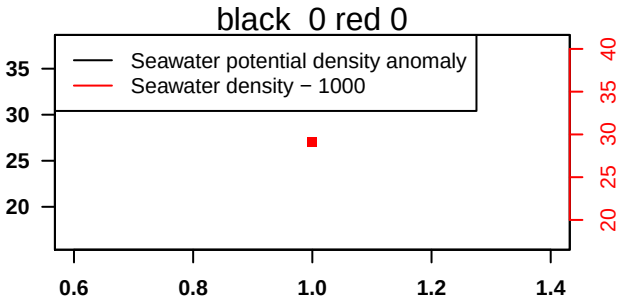

lovbio006b_029_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

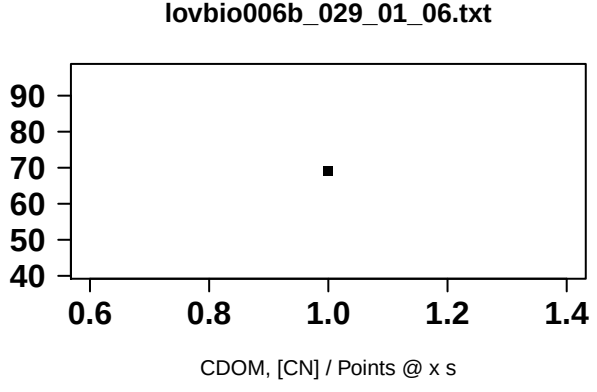

55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

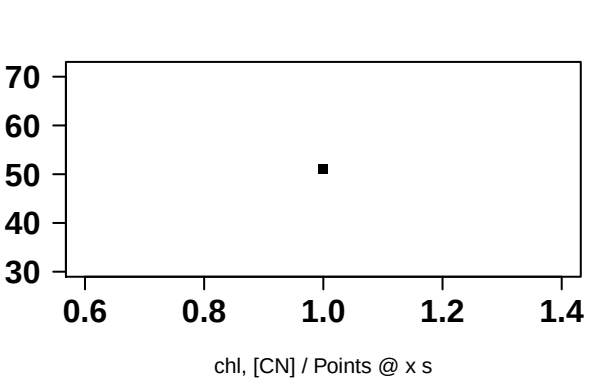

nb days: 8.3 freq: 9.9 min
130
120
110
100
90
0
200
600
1000
beta, [CN] / Points @ x s

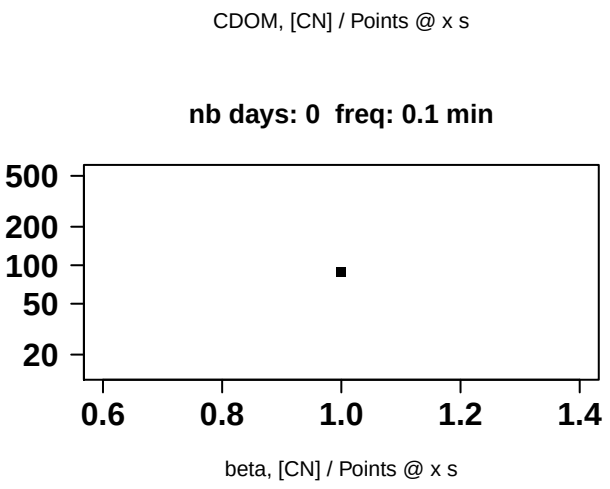

nb days: 8.3 freq: 59.4 min
0.15
0.14
0.13
0.12
0.11
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

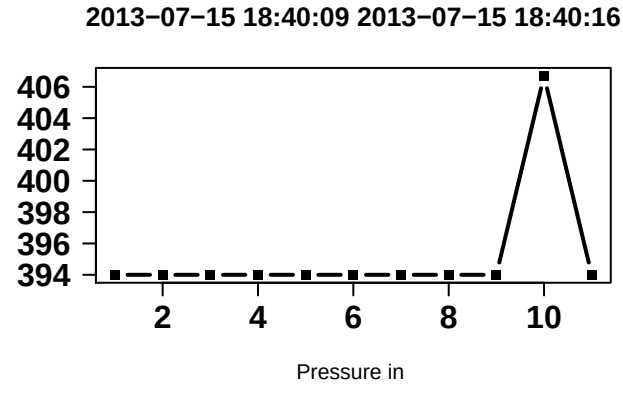

2013−07−15 13:49:24 2013−07−15 13:49:32
600
500
400
300
1.0
1.5
2.0
2.5
3.0
Pressure in

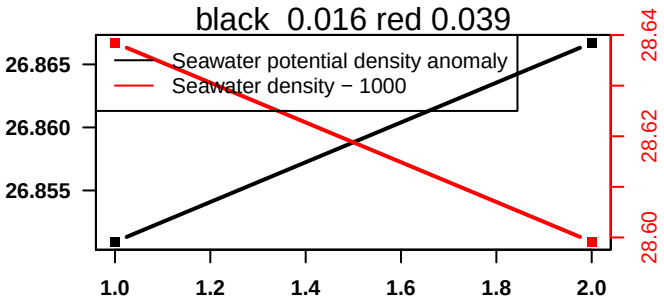

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

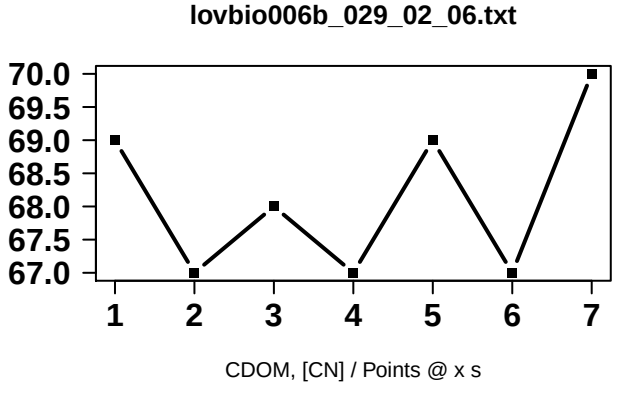

lovbio006b_029_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

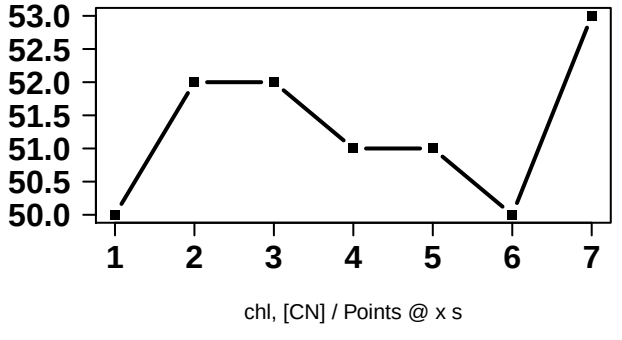

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

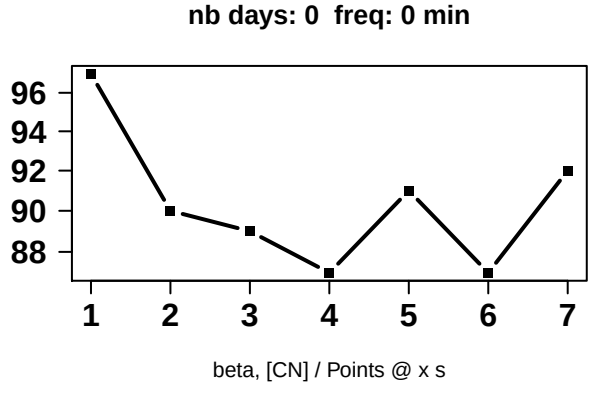

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

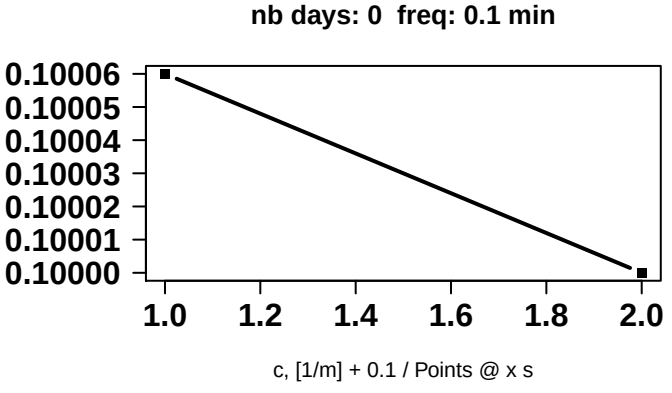

2013−07−15 18:40:09 2013−07−15 18:40:16
406
404
402
400
398
396
394
2
4
6
8
10
Pressure in

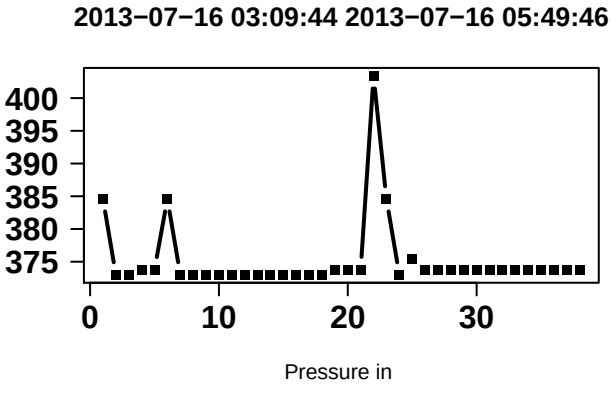

black 0.016 red 0.039
Seawater potential density anomaly
Seawater density − 1000
26.865
26.860
26.855
28.64
28.62
28.60
1.0
1.2
1.4
1.6
1.8
2.0

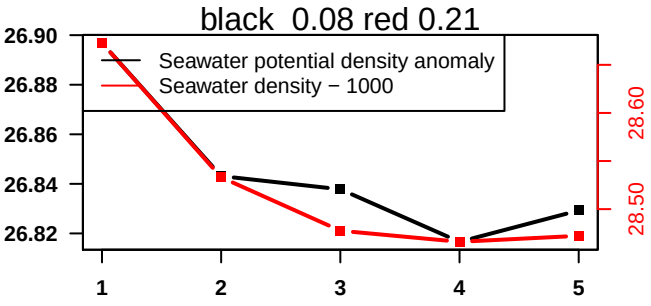

lovbio006b_029_02_06.txt
70.0
69.5
69.0
68.5
68.0
67.5
67.0
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

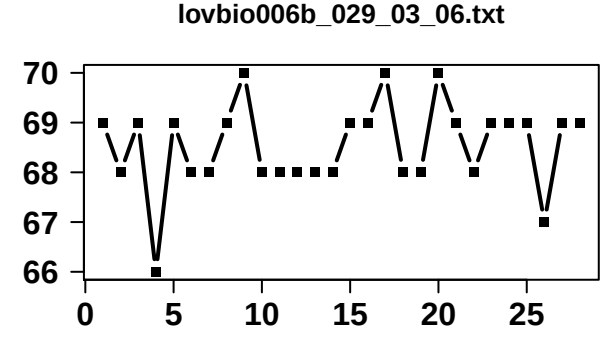

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

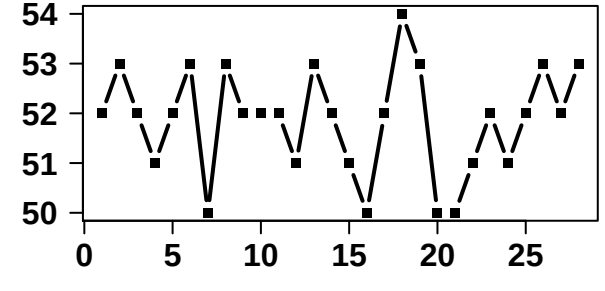

nb days: 0 freq: 0 min
96
94
92
90
88
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

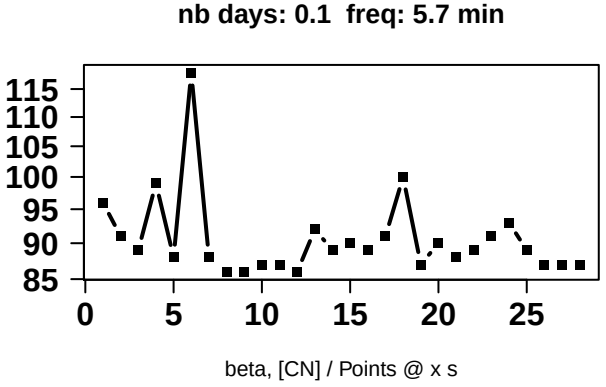

nb days: 0 freq: 0.1 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

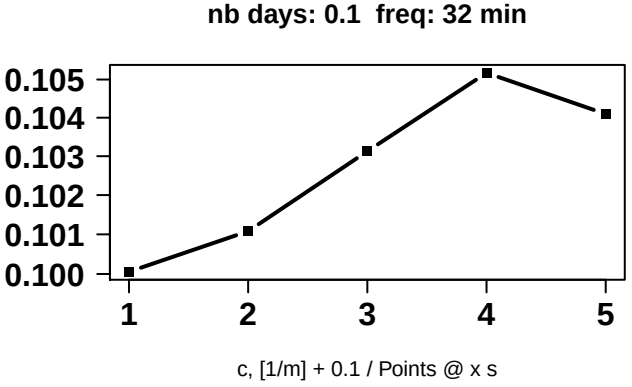

2013−07−16 03:09:44 2013−07−16 05:49:46
400
395
390
385
380
375
0
10
20
30
Pressure in

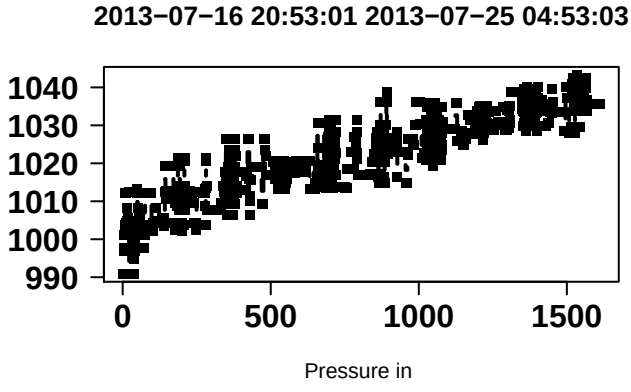

black 0.08 red 0.21
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
28.60
28.50
1
2
3
4
5

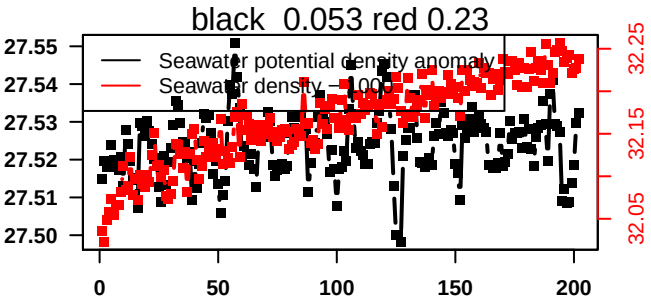

lovbio006b_029_03_06.txt
70
69
68
67
66
0
5
10
15
20
25
CDOM, [CN] / Points @ x s

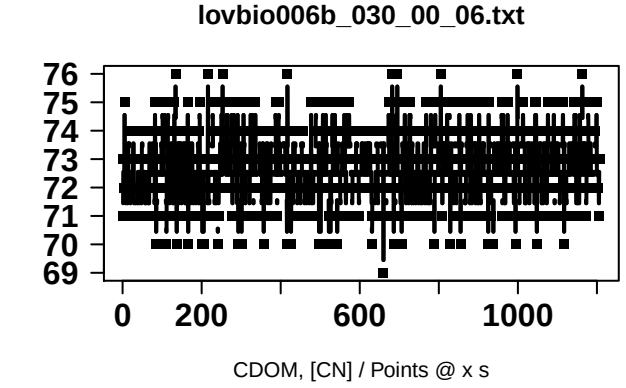

54
53
52
51
50
0
5
10
15
20
25
chl, [CN] / Points @ x s

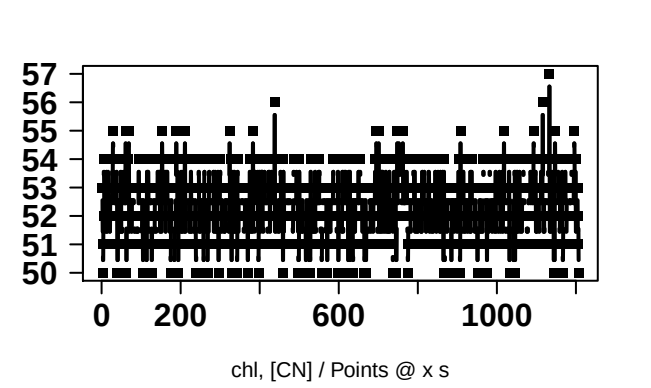

nb days: 0.1 freq: 5.7 min
115
110
105
100
95
90
85
0
5
10
15
20
25
beta, [CN] / Points @ x s

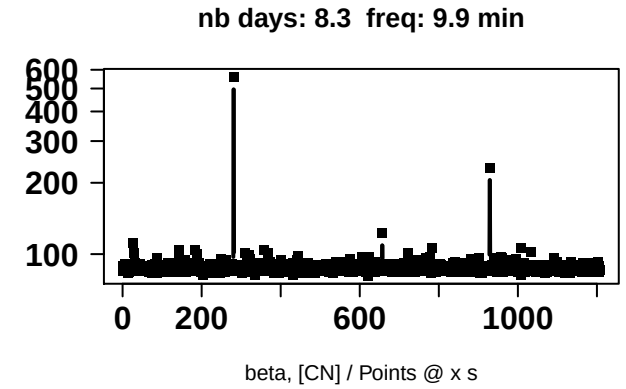

nb days: 0.1 freq: 32 min
0.105
0.104
0.103
0.102
0.101
0.100
1
2
3
4
5
c, [1/m] + 0.1 / Points @ x s

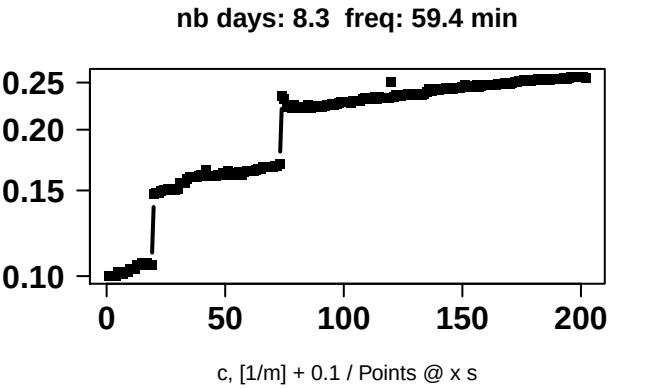

2013−07−16 20:53:01 2013−07−25 04:53:03
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

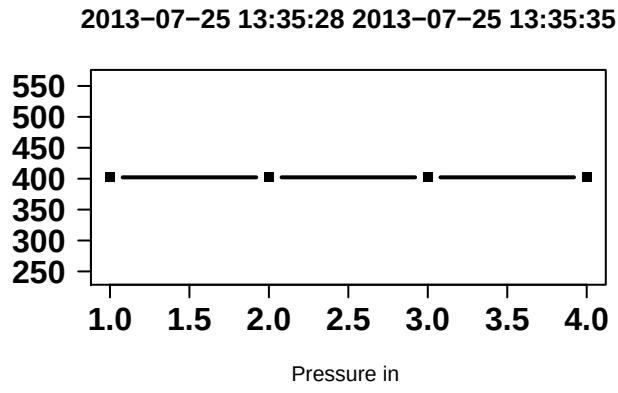

black 0.053 red 0.23
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
27.50
32.25
32.15
32.05
0
50
100
150
200

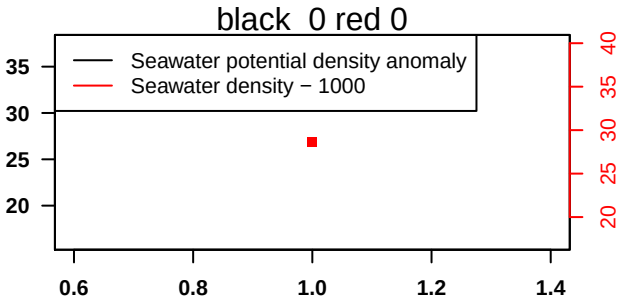

lovbio006b_030_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

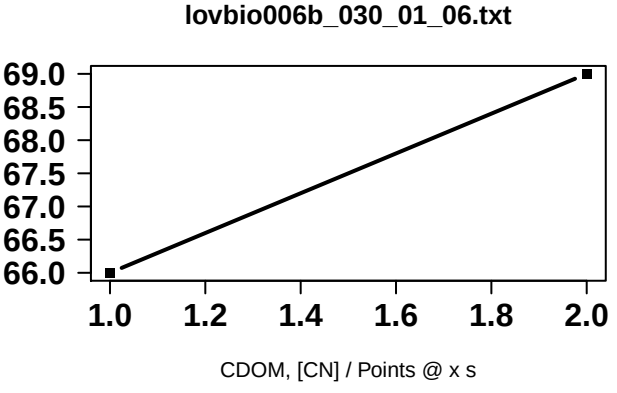

57
56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

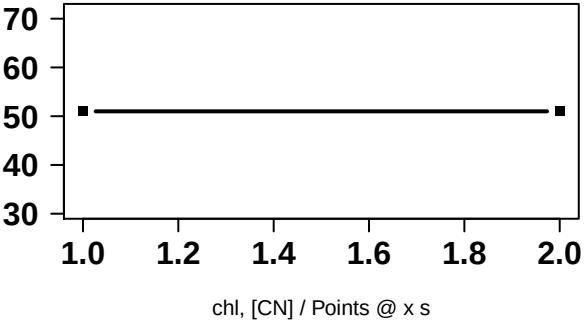

nb days: 8.3 freq: 9.9 min
600
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

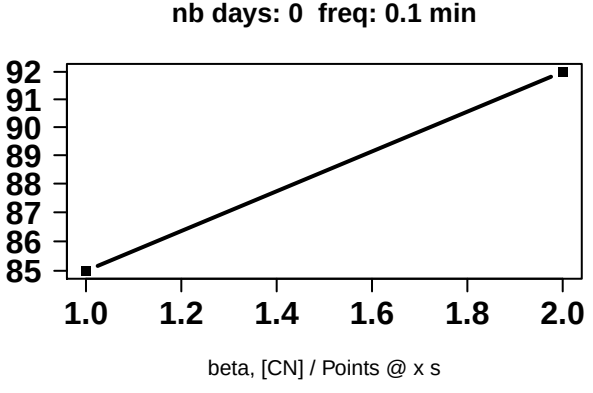

nb days: 8.3 freq: 59.4 min
0.25
0.20
0.15
0.10
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

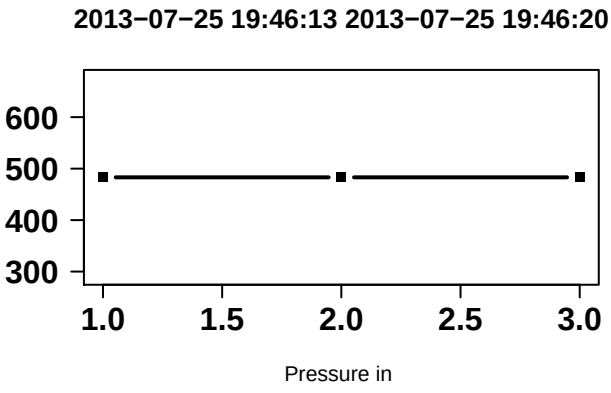

2013−07−25 13:35:28 2013−07−25 13:35:35
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

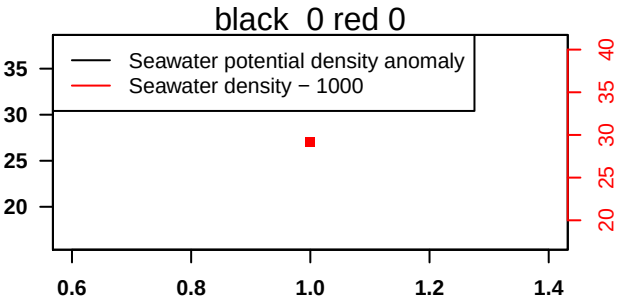

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

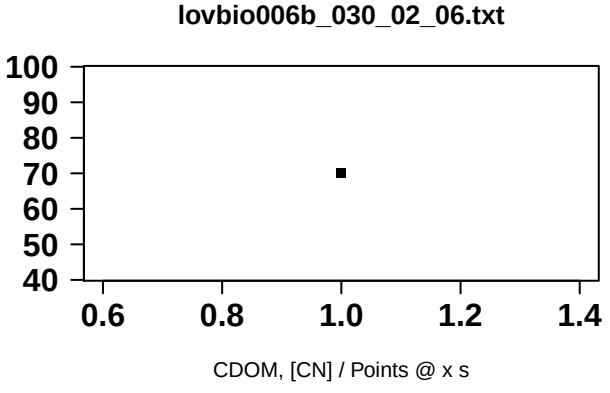

lovbio006b_030_01_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

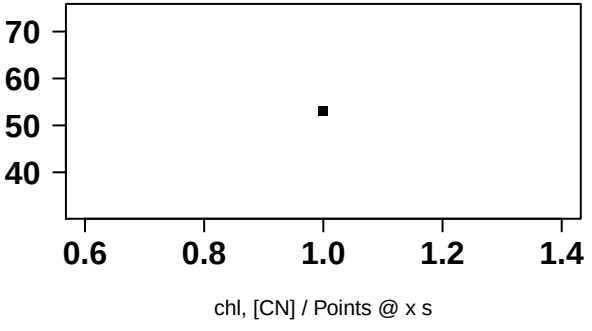

70
60
50
40
30
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

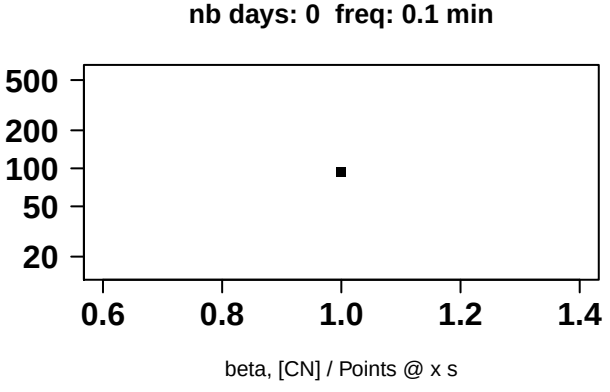

nb days: 0 freq: 0.1 min
92
91
90
89
88
87
86
85
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

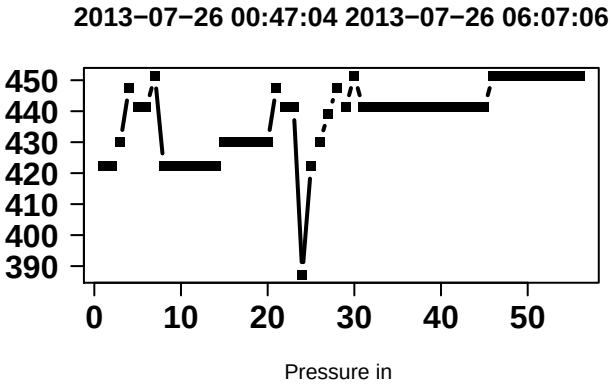

2013−07−25 19:46:13 2013−07−25 19:46:20
600
500
400
300
1.0
1.5
2.0
2.5
3.0
Pressure in

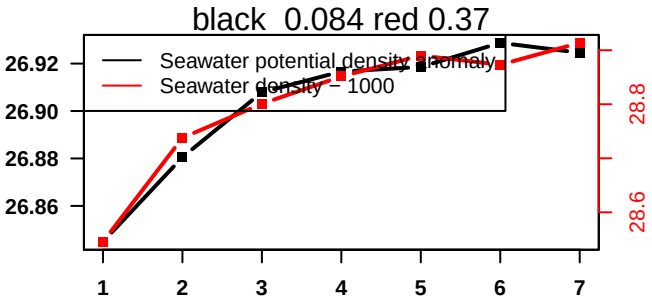

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

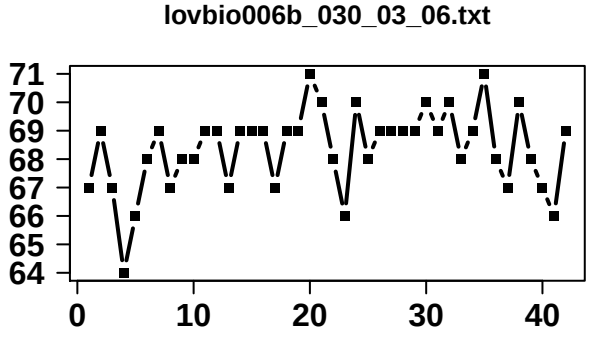

lovbio006b_030_02_06.txt
100
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

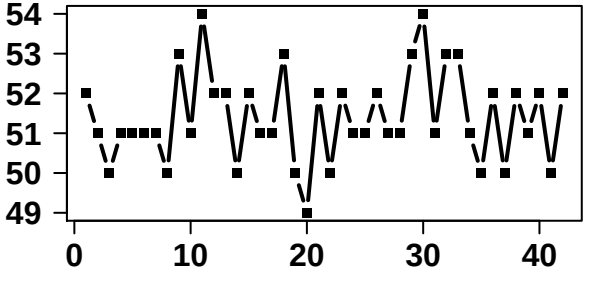

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

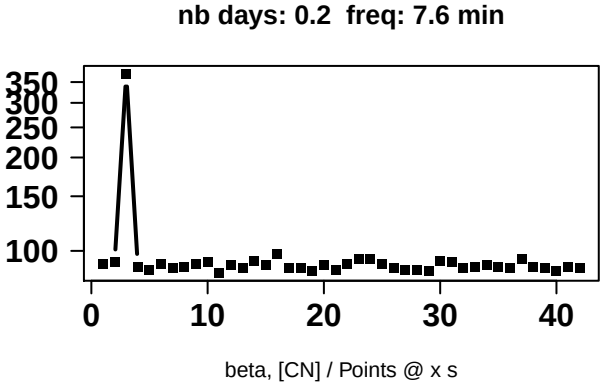

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

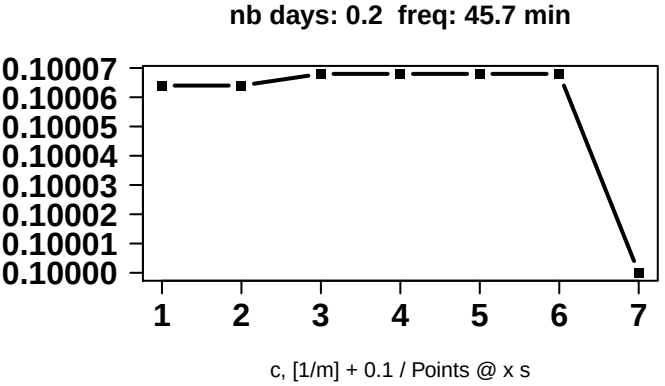

2013−07−26 00:47:04 2013−07−26 06:07:06
Pressure in

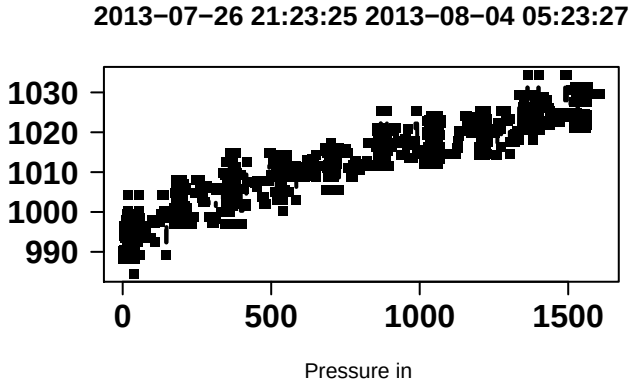

black 0.084 red 0.37
Seawater potential density anomaly
Seawater density − 1000

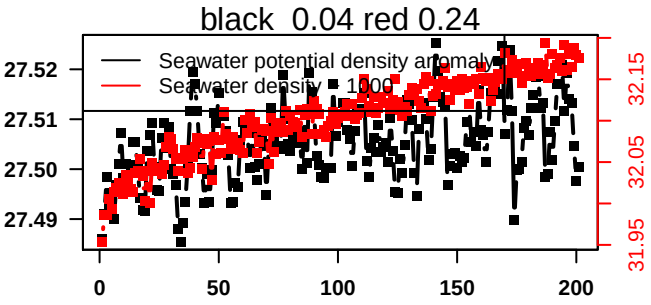

lovbio006b_030_03_06.txt
CDOM, [CN] / Points @ x s

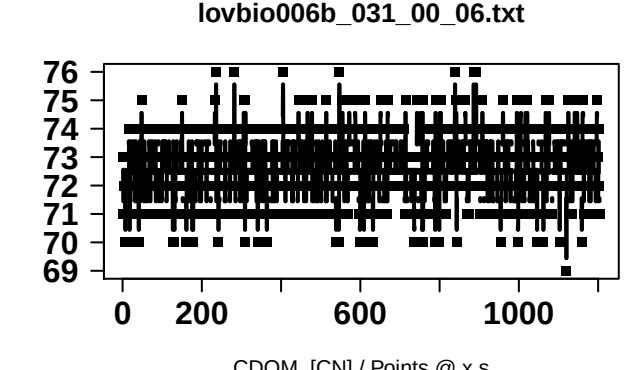

chl, [CN] / Points @ x s

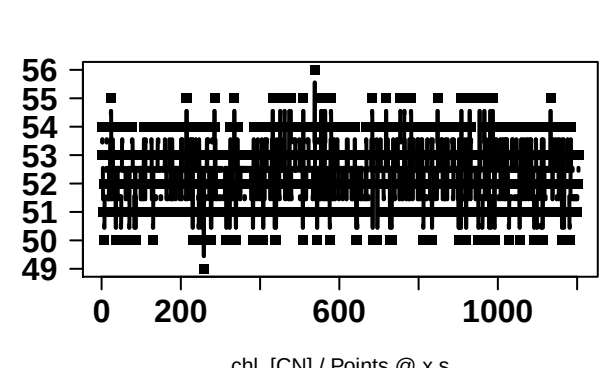

nb days: 0.2 freq: 7.6 min
beta, [CN] / Points @ x s

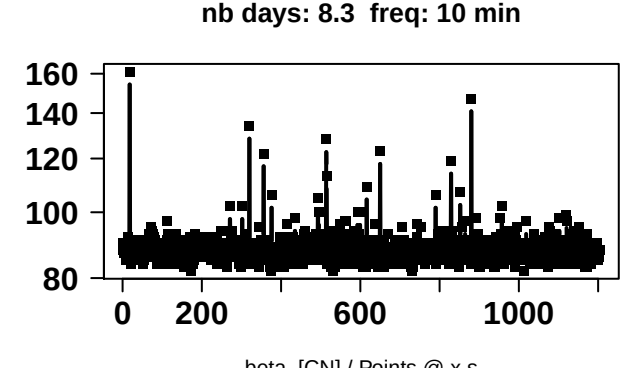

nb days: 0.2 freq: 45.7 min
c, [1/m] + 0.1 / Points @ x s

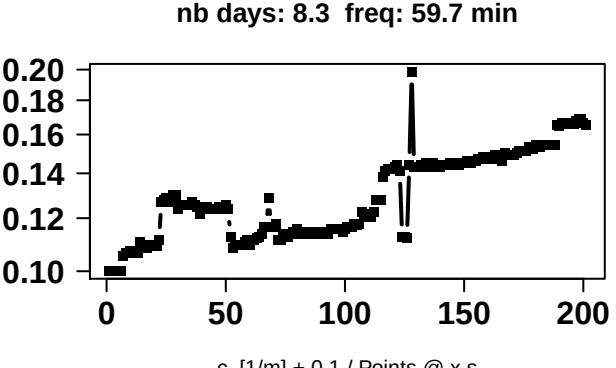

2013−07−26 21:23:25 2013−08−04 05:23:27
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

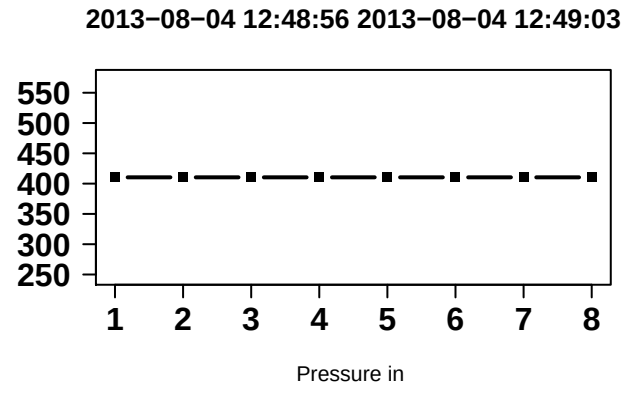

black 0.04 red 0.24
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
32.15
32.05
31.95
0
50
100
150
200

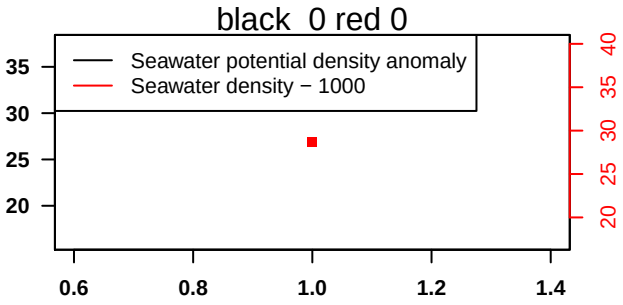

lovbio006b_031_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

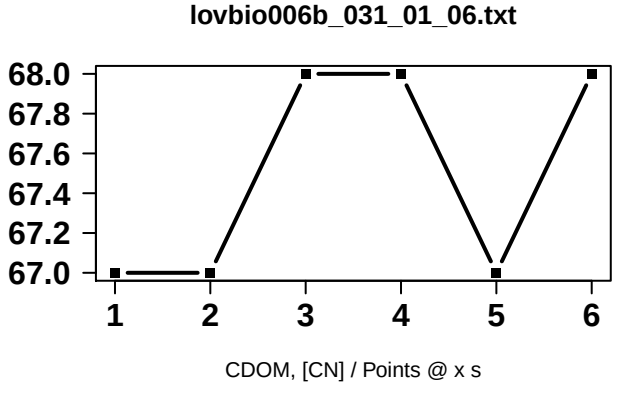

56
55
54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

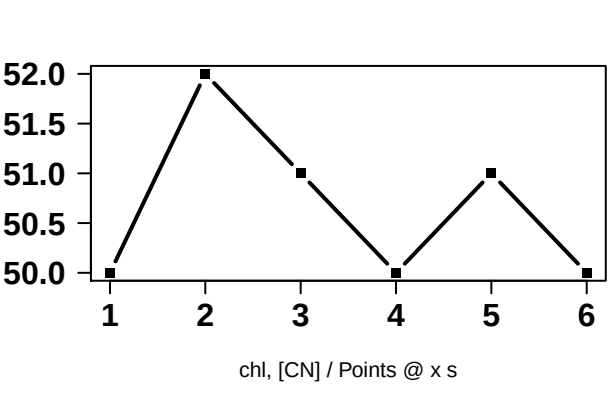

nb days: 8.3 freq: 10 min
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

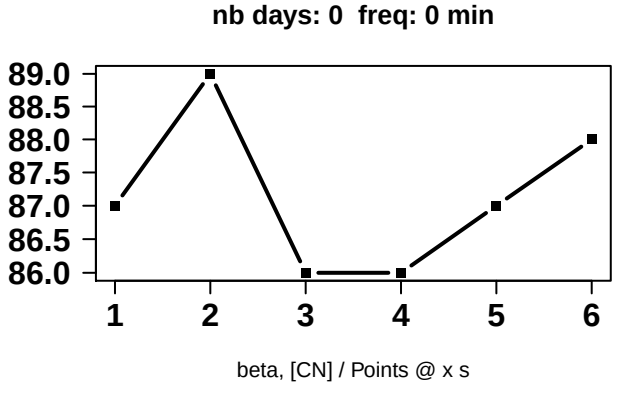

nb days: 8.3 freq: 59.7 min
0.20
0.18
0.16
0.14
0.12
0.10
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

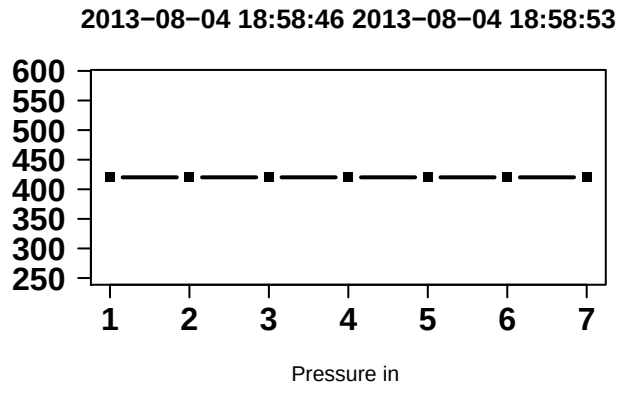

2013−08−04 12:48:56 2013−08−04 12:49:03
550
500
450
400
350
300
250
1
2
3
4
5
6
7
8
Pressure in

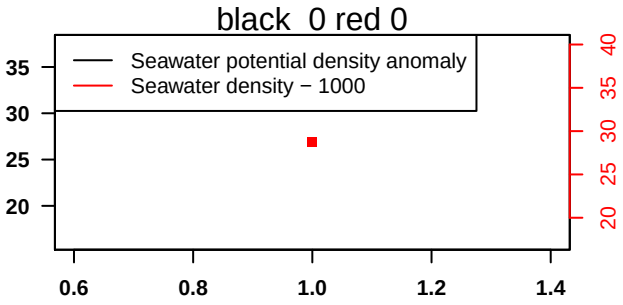

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

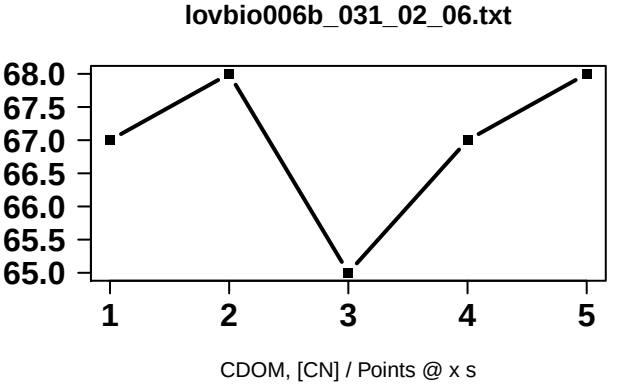

lovbio006b_031_01_06.txt
68.0
67.8
67.6
67.4
67.2
67.0
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

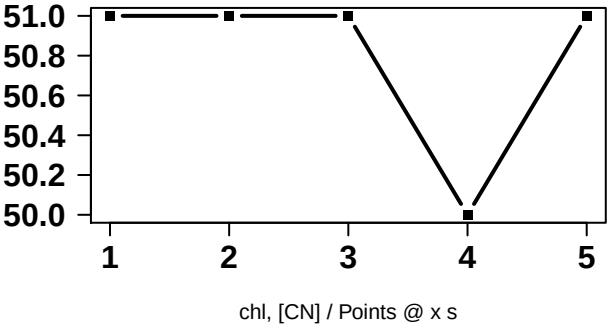

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

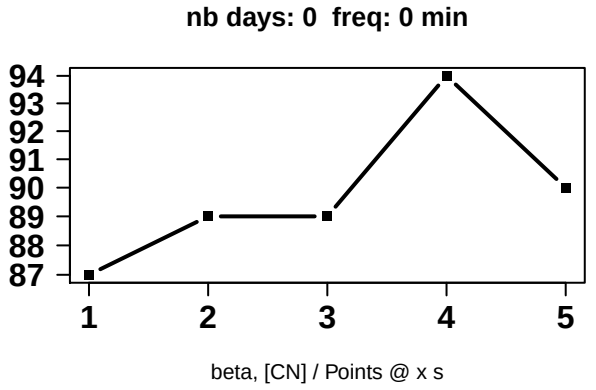

nb days: 0 freq: 0 min
89.0
88.5
88.0
87.5
87.0
86.5
86.0
1
2
3
4
5
6
beta, [CN] / Points @ x s

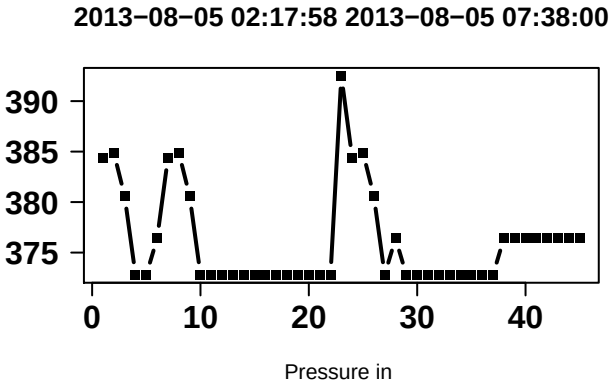

2013−08−04 18:58:46 2013−08−04 18:58:53
600
550
500
450
400
350
300
250
1
2
3
4
5
6
7
Pressure in

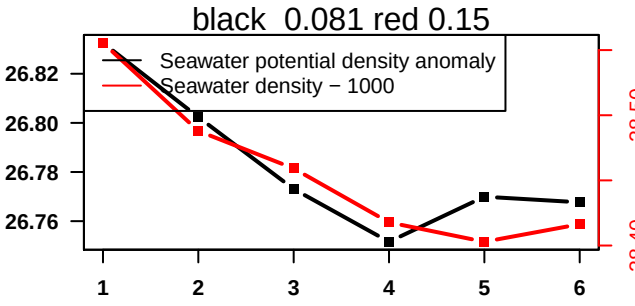

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

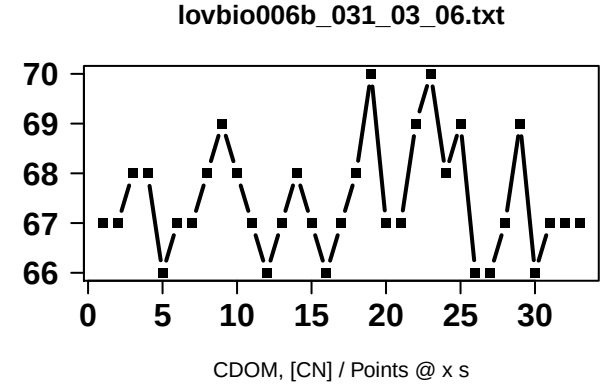

lovbio006b_031_02_06.txt
68.0
67.5
67.0
66.5
66.0
65.5
65.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

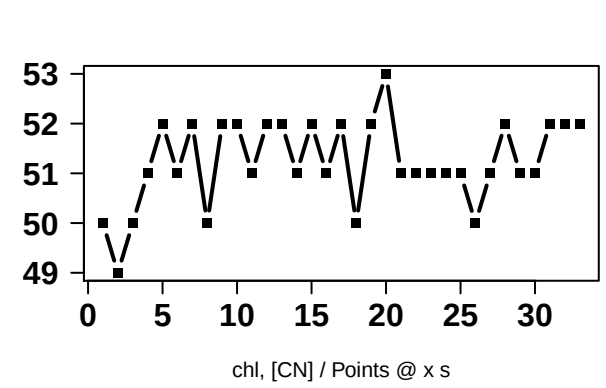

51.0
50.8
50.6
50.4
50.2
50.0
1
2
3
4
5
chl, [CN] / Points @ x s

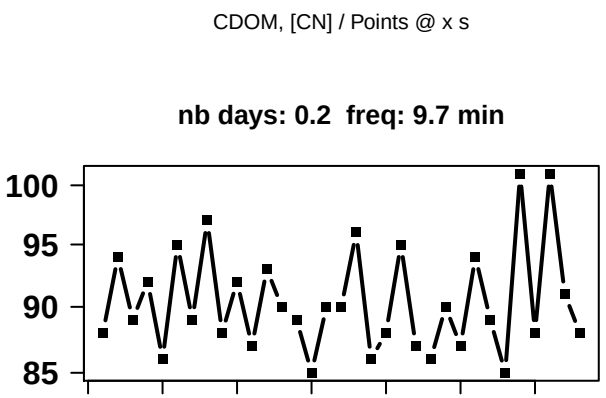

nb days: 0 freq: 0 min
94
93
92
91
90
89
88
87
1
2
3
4
5
beta, [CN] / Points @ x s

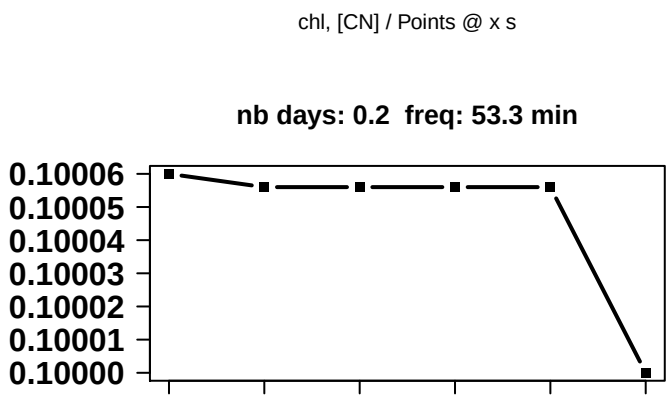

2013−08−05 02:17:58 2013−08−05 07:38:00
390
385
380
375
0
10
20
30
40
Pressure in

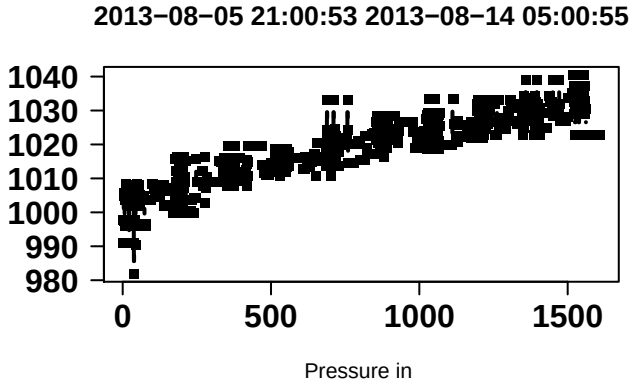

black 0.081 red 0.15
Seawater potential density anomaly
Seawater density − 1000
26.82
26.80
26.78
26.76
28.50
28.40
1
2
3
4
5
6

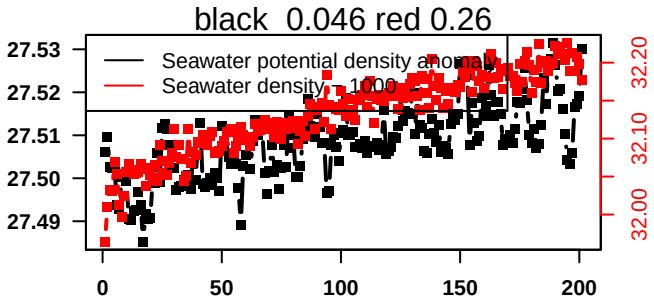

lovbio006b_031_03_06.txt
70
69
68
67
66
0
5
10
15
20
25
30
CDOM, [CN] / Points @ x s

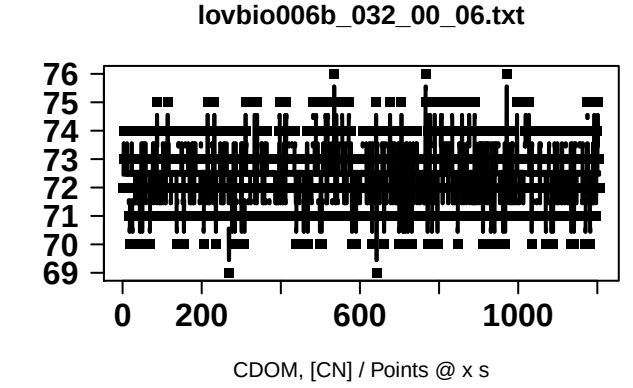

53
52
51
50
49
0
5
10
15
20
25
30
chl, [CN] / Points @ x s

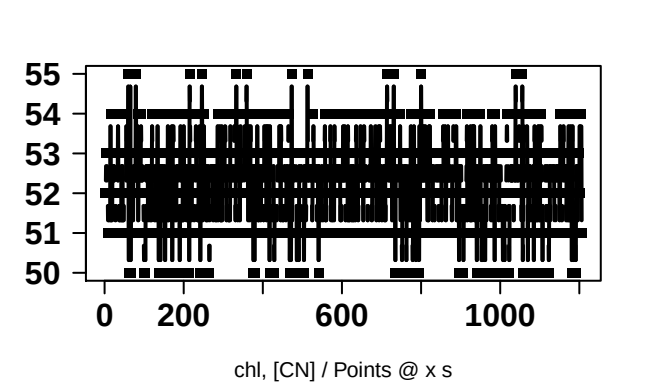

nb days: 0.2 freq: 9.7 min
100
95
90
85
0
5
10
15
20
25
30
beta, [CN] / Points @ x s

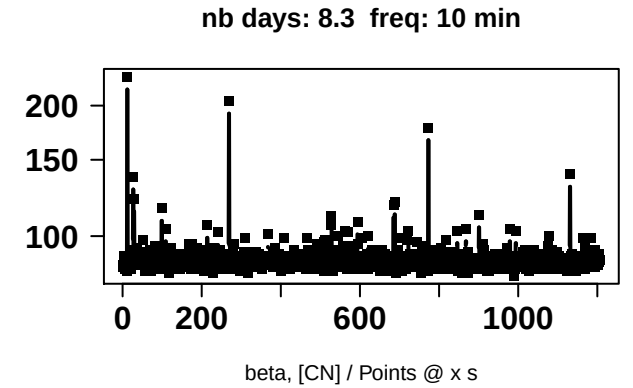

nb days: 0.2 freq: 53.3 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1
2
3
4
5
6
c, [1/m] + 0.1 / Points @ x s

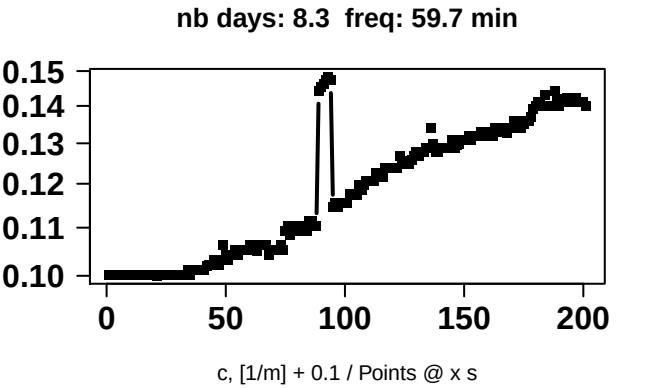

2013−08−05 21:00:53 2013−08−14 05:00:55
1040
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

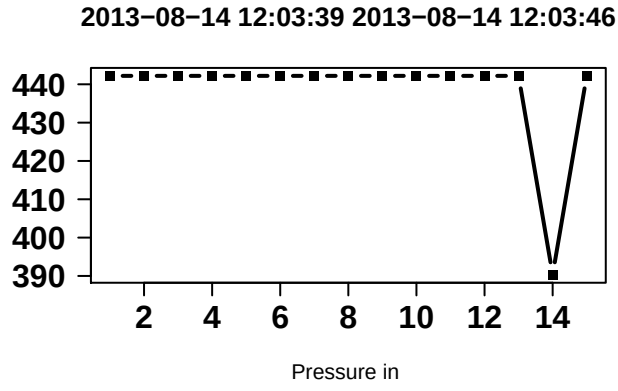

black 0.046 red 0.26
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
32.20
32.10
32.00
0
50
100
150
200

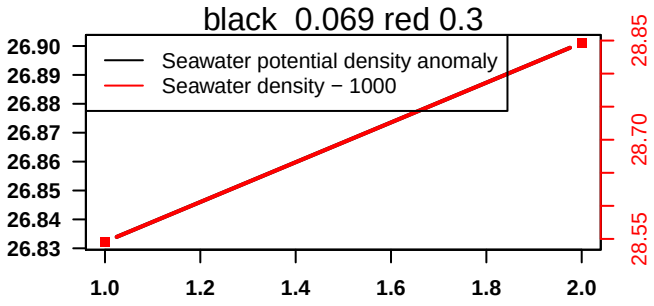

lovbio006b_032_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

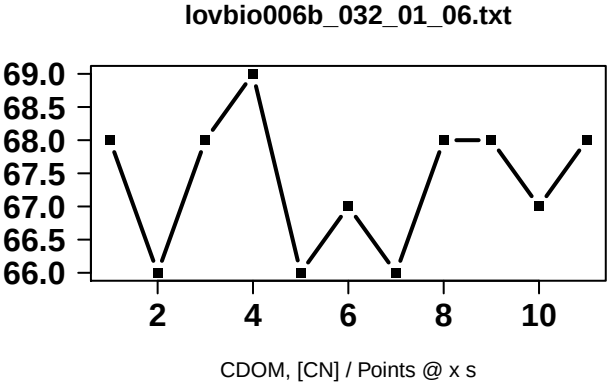

55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

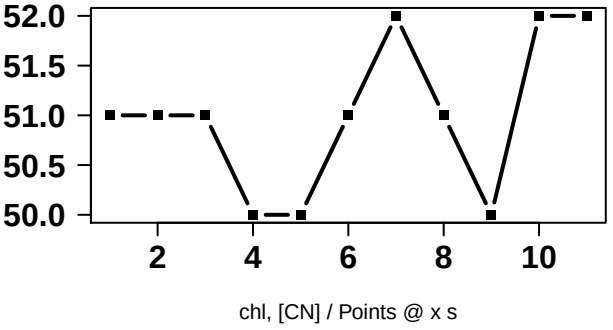

nb days: 8.3 freq: 10 min
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

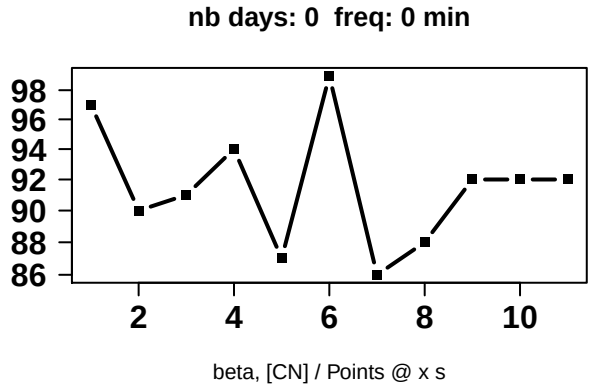

nb days: 8.3 freq: 59.7 min
0.15
0.14
0.13
0.12
0.11
0.10
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

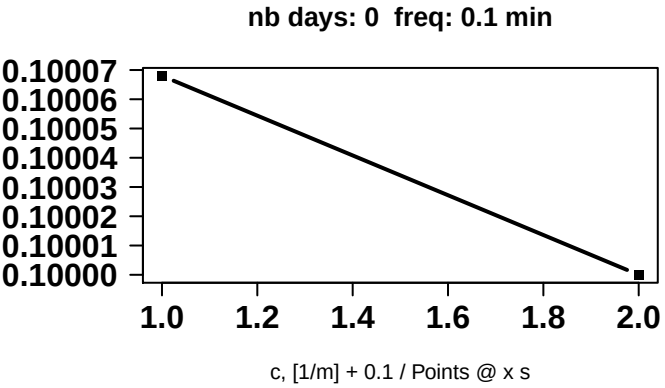

2013−08−14 12:03:39 2013−08−14 12:03:46
440
430
420
410
400
390
2
4
6
8
10
12
14
Pressure in

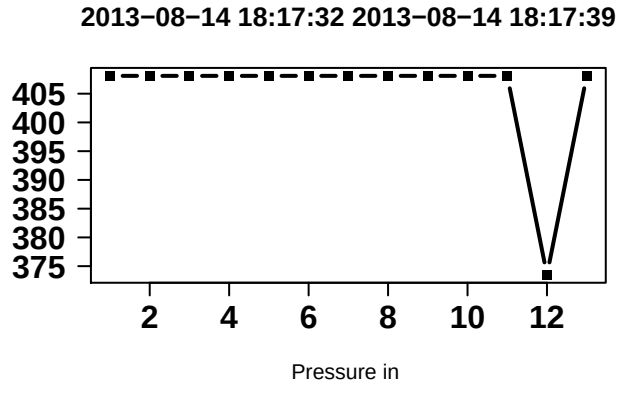

black 0.069 red 0.3
Seawater potential density anomaly
Seawater density − 1000
26.90
26.89
26.88
26.87
26.86
26.85
26.84
26.83
28.85
28.70
28.55
1.0
1.2
1.4
1.6
1.8
2.0

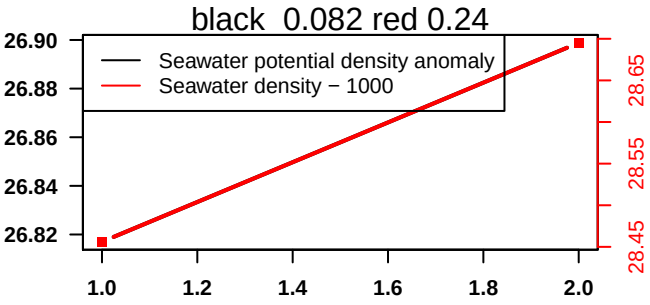

lovbio006b_032_01_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
2
4
6
8
10
CDOM, [CN] / Points @ x s

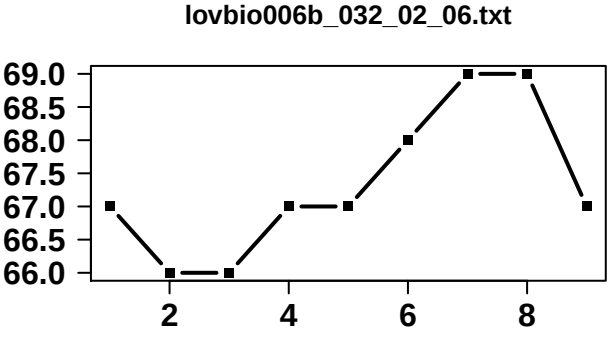

52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

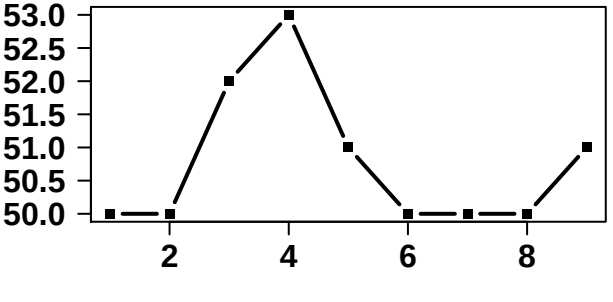

nb days: 0 freq: 0 min
98
96
94
92
90
88
86
2
4
6
8
10
beta, [CN] / Points @ x s

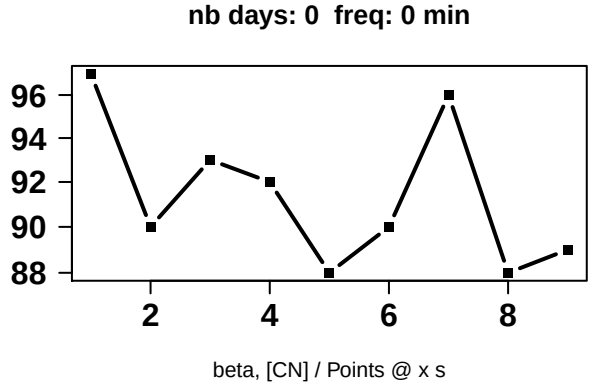

nb days: 0 freq: 0.1 min
0.10007
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

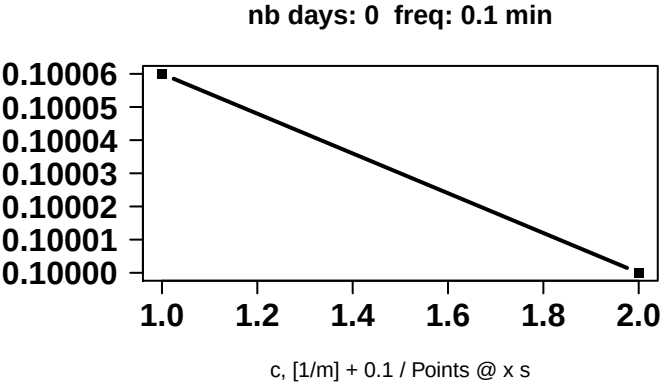

2013−08−14 18:17:32 2013−08−14 18:17:39
405
400
395
390
385
380
375
2
4
6
8
10
12
Pressure in

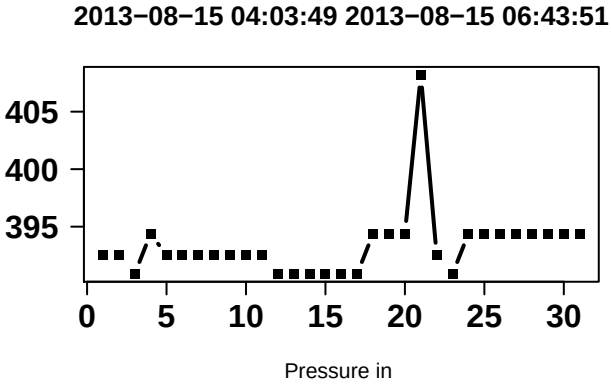

black 0.082 red 0.24
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
28.65
28.55
28.45
1.0
1.2
1.4
1.6
1.8
2.0

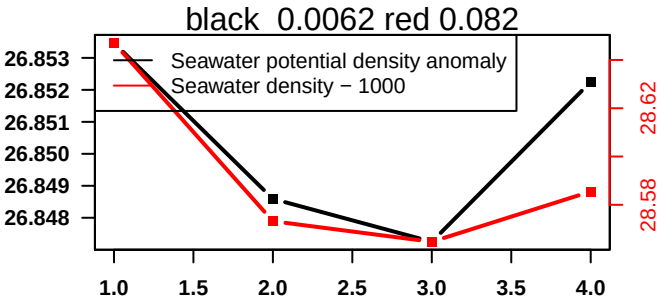

lovbio006b_032_02_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
2
4
6
8
CDOM, [CN] / Points @ x s

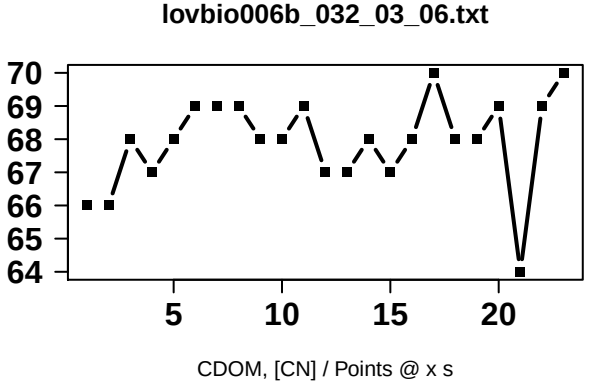

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

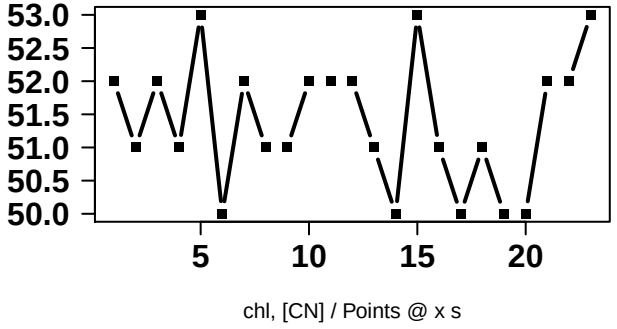

nb days: 0 freq: 0 min
96
94
92
90
88
2
4
6
8
beta, [CN] / Points @ x s

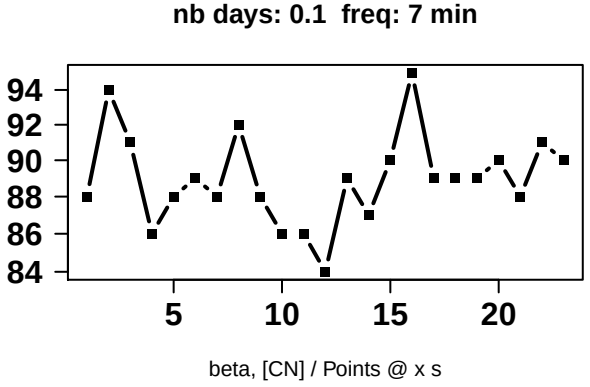

nb days: 0 freq: 0.1 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

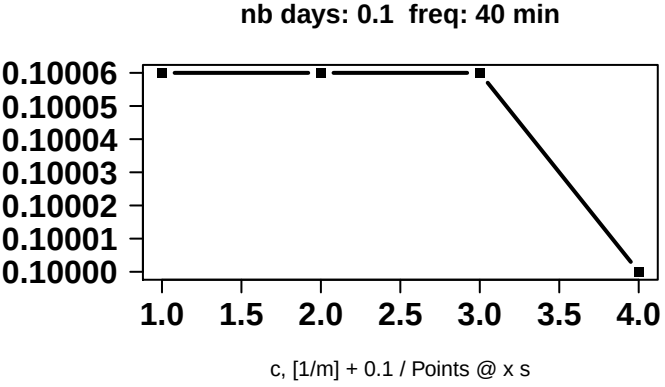

2013−08−15 04:03:49 2013−08−15 06:43:51
405
400
395
0
5
10
15
20
25
30
Pressure in

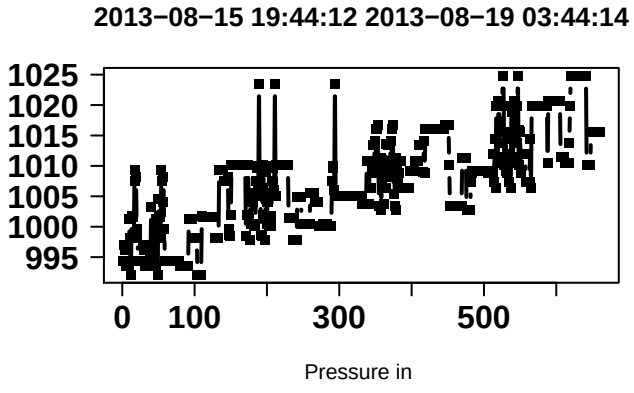

black 0.0062 red 0.082
Seawater potential density anomaly
Seawater density − 1000
26.853
26.852
26.851
26.850
26.849
26.848
28.62
28.58
1.0
1.5
2.0
2.5
3.0
3.5
4.0

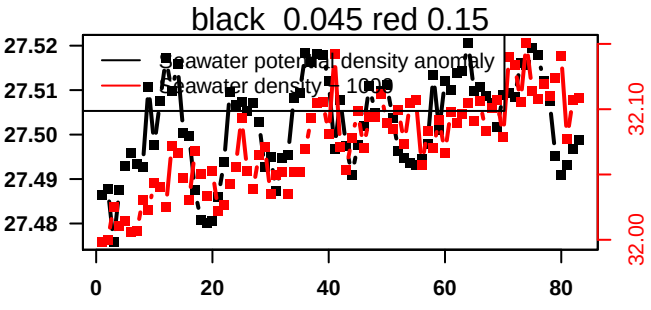

lovbio006b_032_03_06.txt
70
69
68
67
66
65
64
5
10
15
20
CDOM, [CN] / Points @ x s

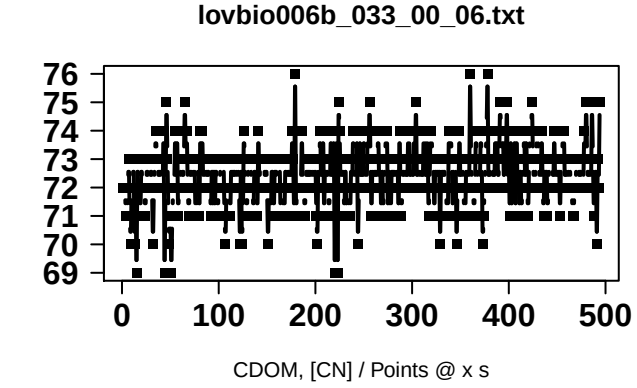

53.0
52.5
52.0
51.5
51.0
50.5
50.0
5
10
15
20
chl, [CN] / Points @ x s

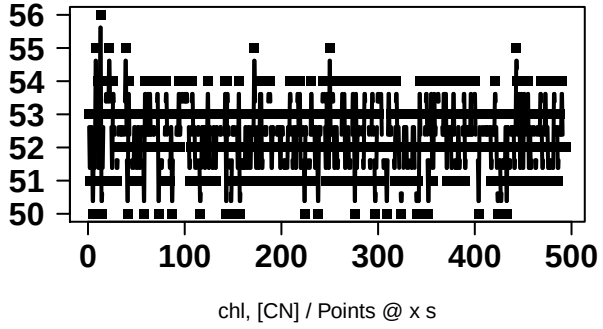

nb days: 0.1 freq: 7 min
94
92
90
88
86
84
5
10
15
20
beta, [CN] / Points @ x s

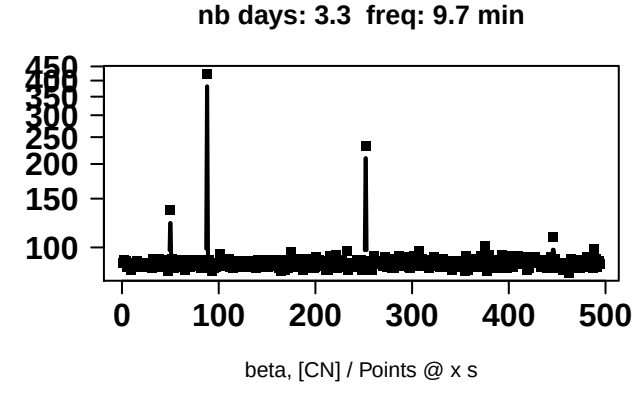

nb days: 0.1 freq: 40 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1.0
1.5
2.0
2.5
3.0
3.5
4.0
c, [1/m] + 0.1 / Points @ x s

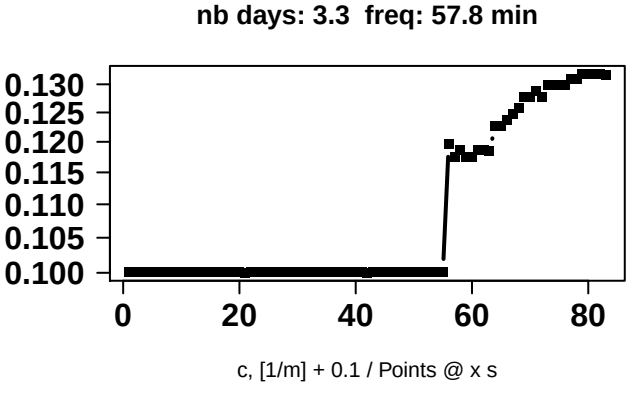

2013−08−15 19:44:12 2013−08−19 03:44:14
1025
1020
1015
1010
1005
1000
995
0
100
300
500
Pressure in

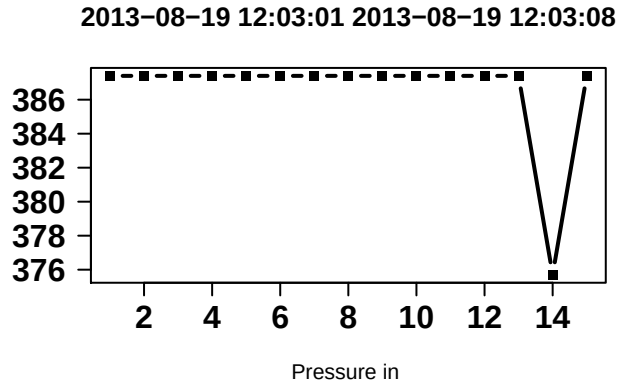

black 0.045 red 0.15
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
32.10
32.00
0
20
40
60
80

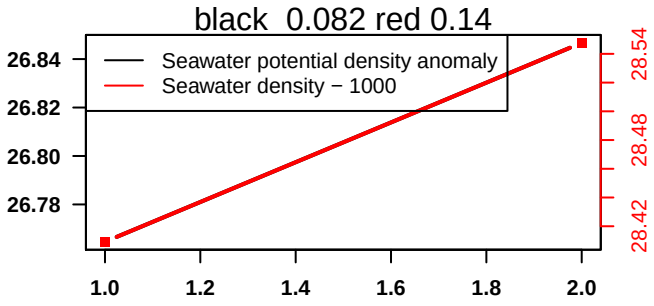

lovbio006b_033_00_06.txt
76
75
74
73
72
71
70
69
0
100
200
300
400
500
CDOM, [CN] / Points @ x s

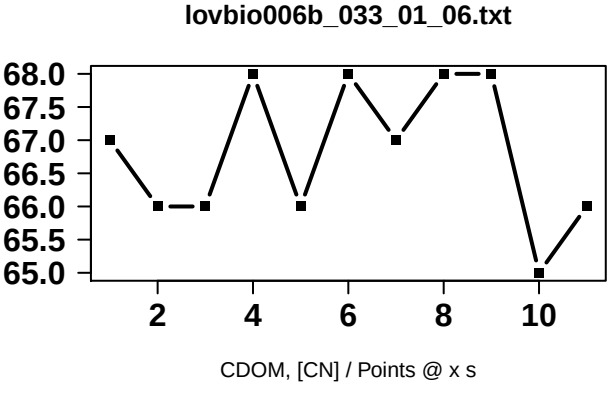

56
55
54
53
52
51
50
0
100
200
300
400
500
chl, [CN] / Points @ x s

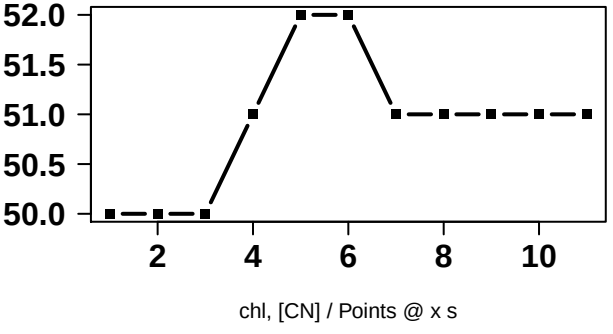

nb days: 3.3 freq: 9.7 min
450
400
350
300
250
200
150
100
0
100
200
300
400
500
beta, [CN] / Points @ x s

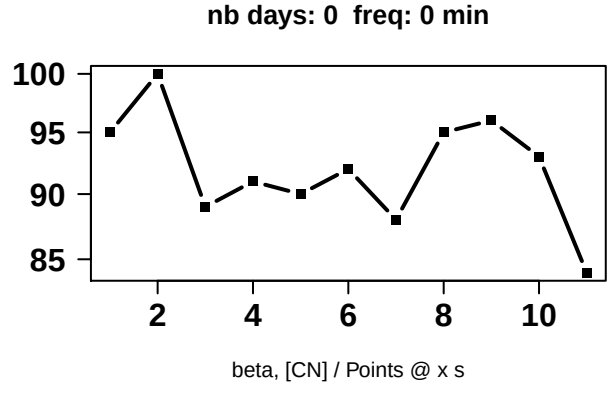

nb days: 3.3 freq: 57.8 min
0.130
0.125
0.120
0.115
0.110
0.105
0.100
0
20
40
60
80
c, [1/m] + 0.1 / Points @ x s

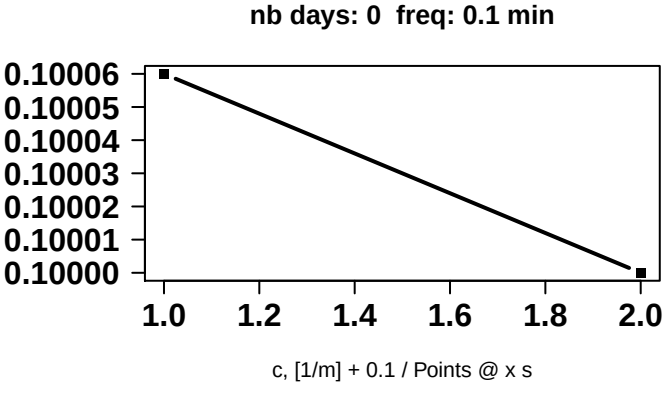

2013−08−19 12:03:01 2013−08−19 12:03:08
386
384
382
380
378
376
2
4
6
8
10
12
14
Pressure in

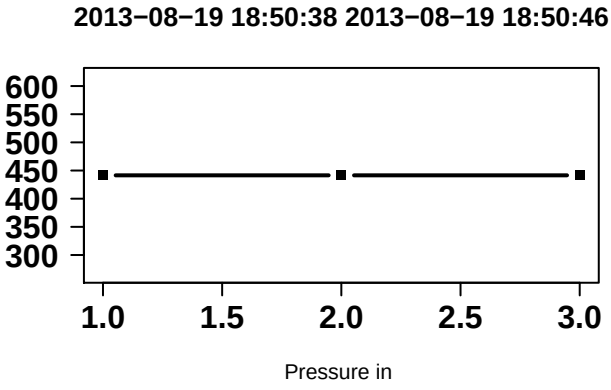

black 0.082 red 0.14
Seawater potential density anomaly
Seawater density − 1000
26.84
26.82
26.80
26.78
28.54
28.48
28.42
1.0
1.2
1.4
1.6
1.8
2.0

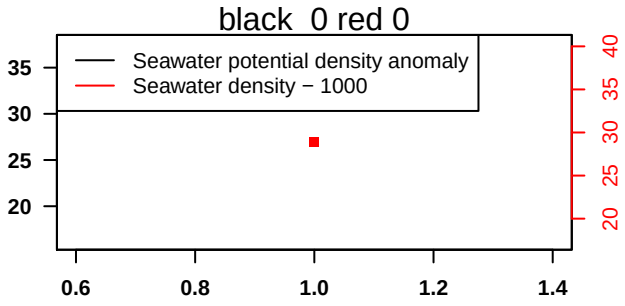

lovbio006b_033_01_06.txt
68.0
67.5
67.0
66.5
66.0
65.5
65.0
2
4
6
8
10
CDOM, [CN] / Points @ x s

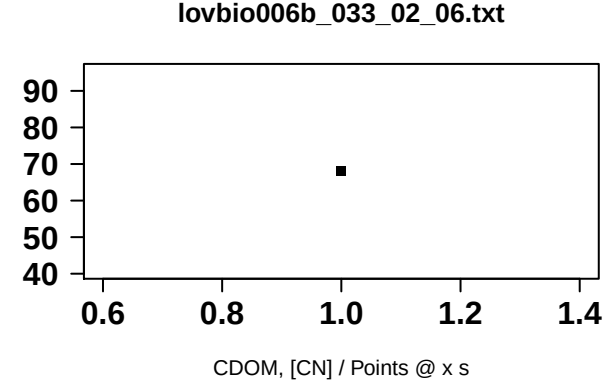

52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

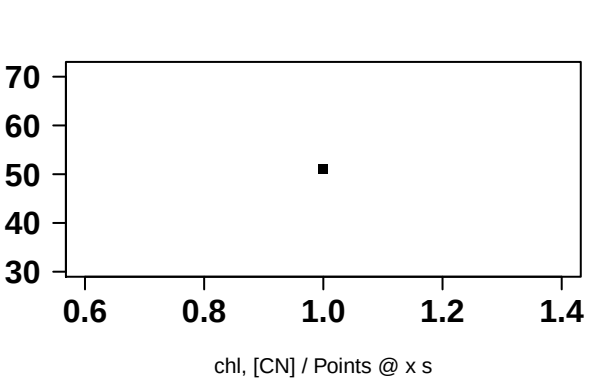

nb days: 0 freq: 0 min
100
95
90
85
2
4
6
8
10
beta, [CN] / Points @ x s

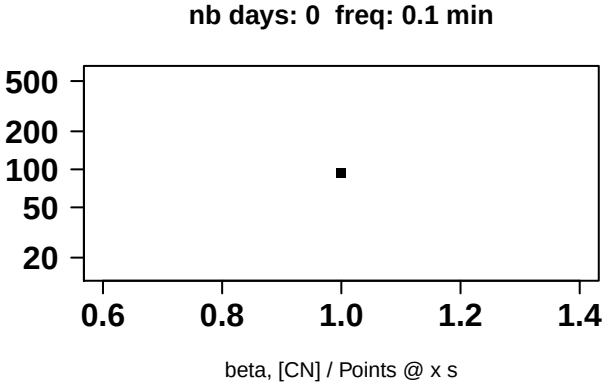

nb days: 0 freq: 0.1 min
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

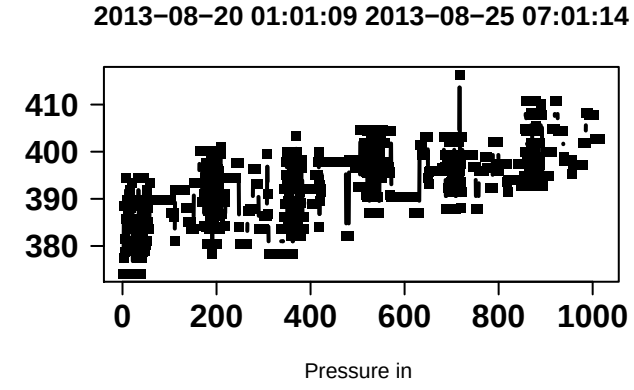

2013−08−19 18:50:38 2013−08−19 18:50:46
600
550
500
450
400
350
300
1.0
1.5
2.0
2.5
3.0
Pressure in

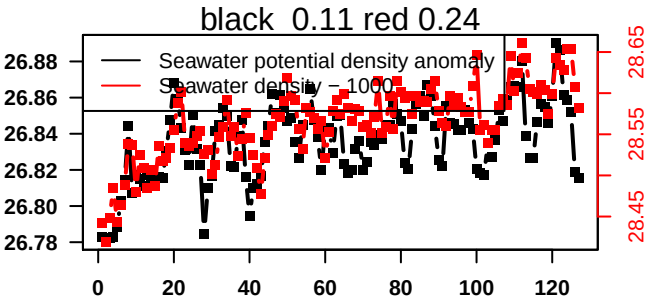

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

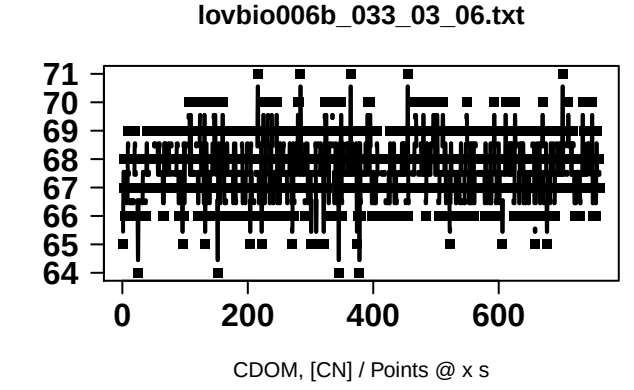

lovbio006b_033_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

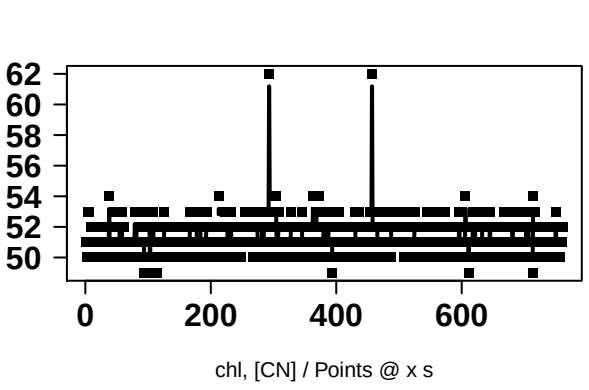

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

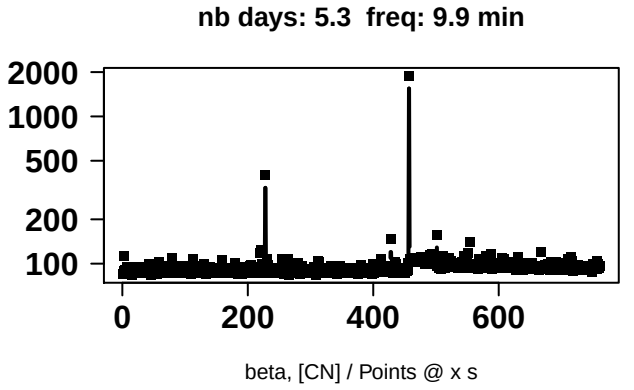

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

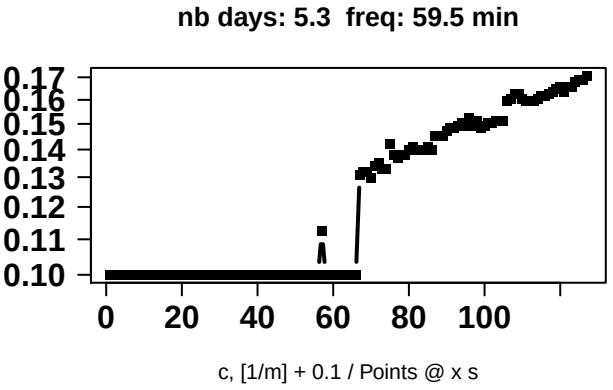

2013−08−20 01:01:09 2013−08−25 07:01:14
410
400
390
380
0
200
400
600
800
1000
Pressure in

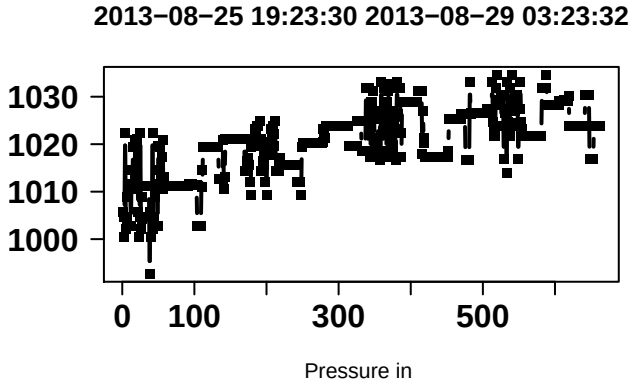

black 0.11 red 0.24
Seawater potential density anomaly
Seawater density − 1000
26.88
26.86
26.84
26.82
26.80
26.78
28.65
28.55
28.45
0
20
40
60
80
100
120

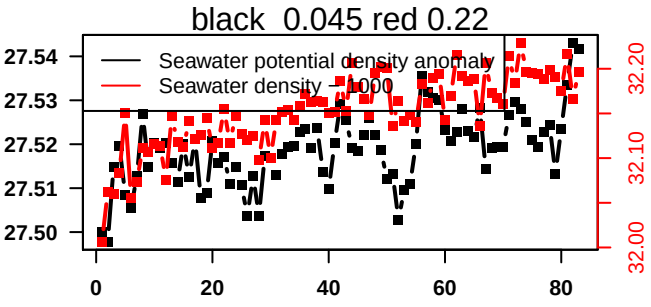

lovbio006b_033_03_06.txt
71
70
69
68
67
66
65
64
0
200
400
600
CDOM, [CN] / Points @ x s

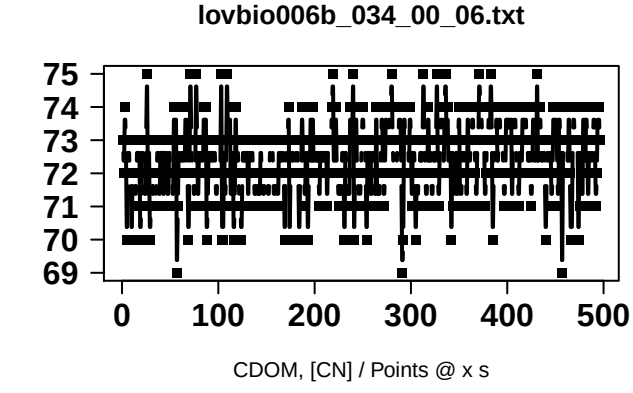

62
60
58
56
54
52
50
0
200
400
600
chl, [CN] / Points @ x s

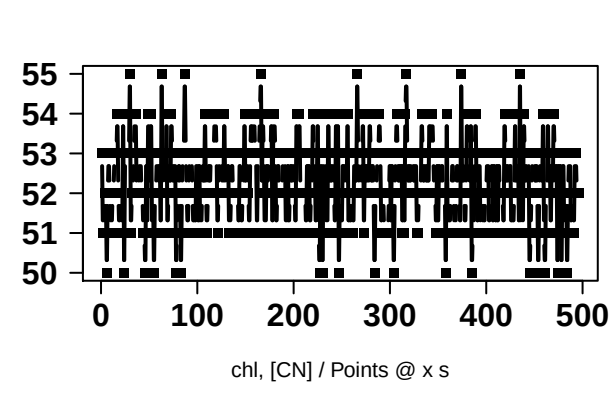

nb days: 5.3 freq: 9.9 min
2000
1000
500
200
100
0
200
400
600
beta, [CN] / Points @ x s

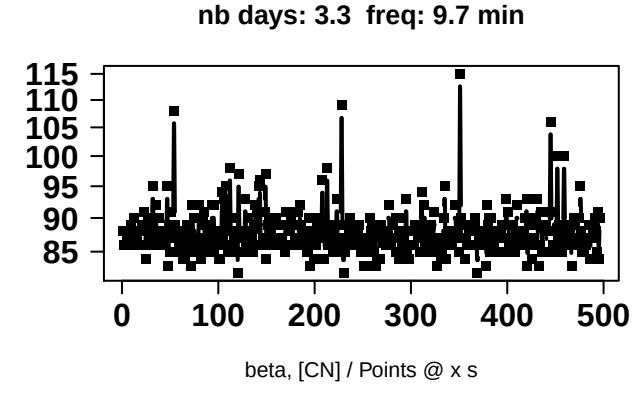

nb days: 5.3 freq: 59.5 min
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.10
0
20
40
60
80
100
c, [1/m] + 0.1 / Points @ x s

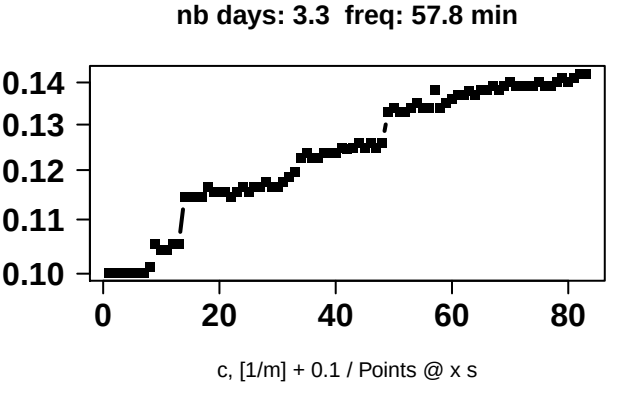

2013−08−25 19:23:30 2013−08−29 03:23:32
1030
1020
1010
1000
0
100
300
500
Pressure in

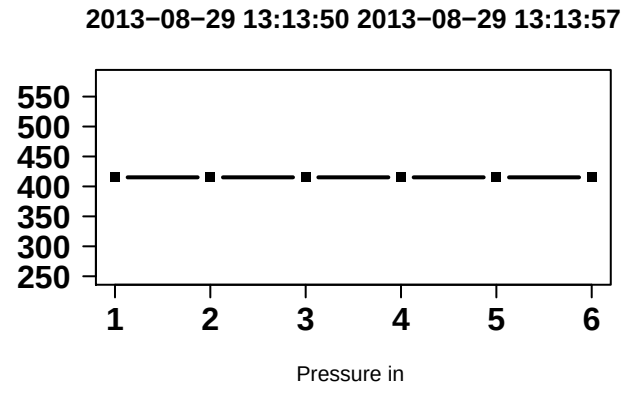

black 0.045 red 0.22
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.20
32.10
32.00
0
20
40
60
80

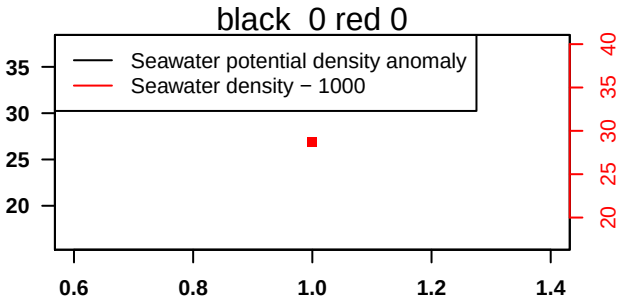

lovbio006b_034_00_06.txt
75
74
73
72
71
70
69
0
100
200
300
400
500
CDOM, [CN] / Points @ x s

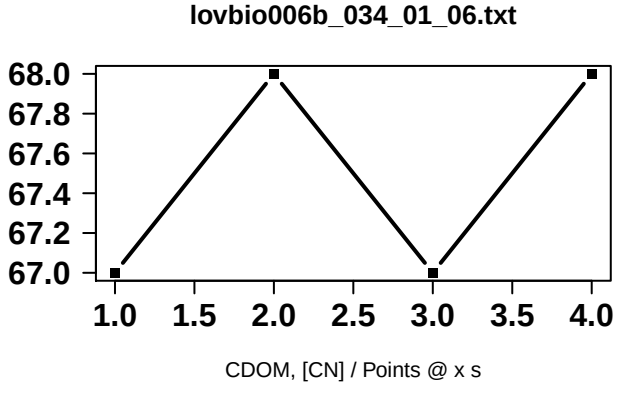

55
54
53
52
51
50
0
100
200
300
400
500
chl, [CN] / Points @ x s

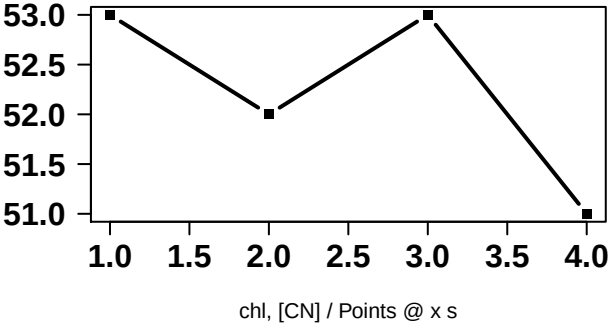

nb days: 3.3 freq: 9.7 min
115
110
105
100
95
90
85
0
100
200
300
400
500
beta, [CN] / Points @ x s

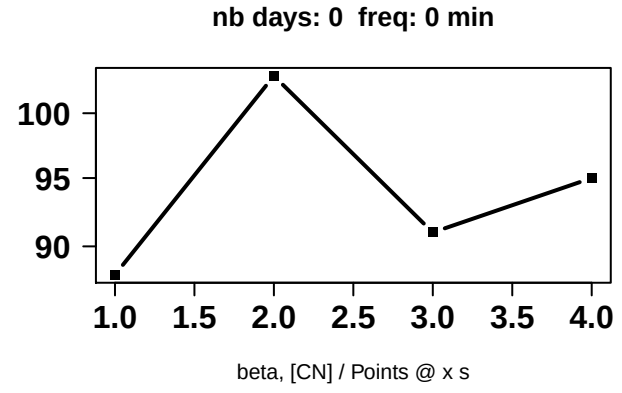

nb days: 3.3 freq: 57.8 min
0.14
0.13
0.12
0.11
0.10
0
20
40
60
80
c, [1/m] + 0.1 / Points @ x s

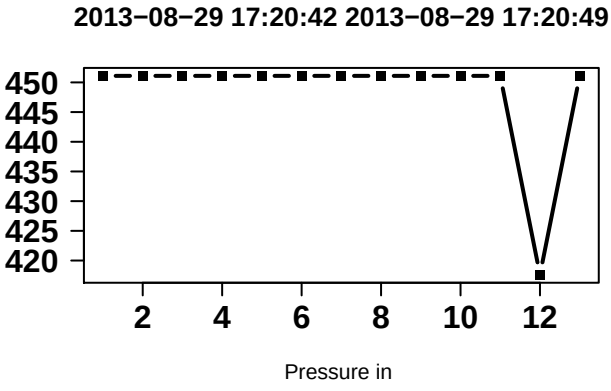

2013−08−29 13:13:50 2013−08−29 13:13:57
550
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

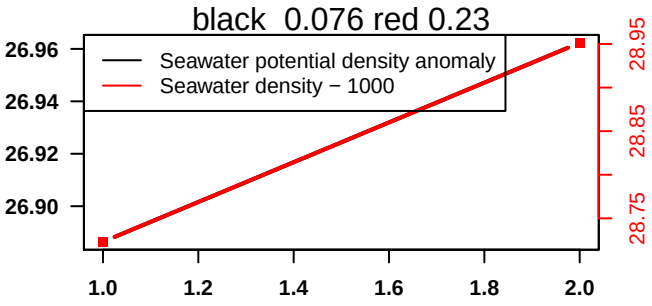

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

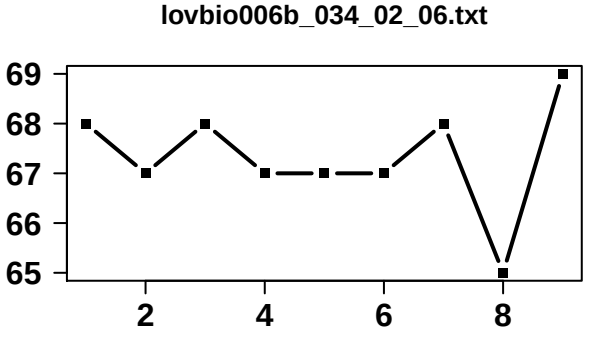

lovbio006b_034_01_06.txt
68.0
67.8
67.6
67.4
67.2
67.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

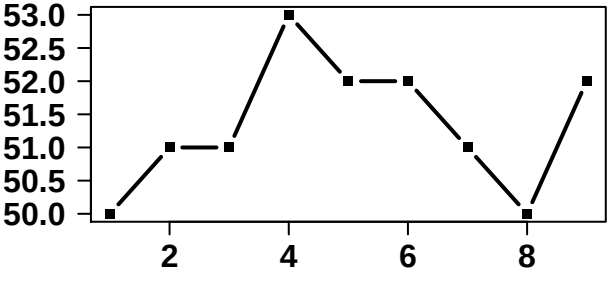

53.0
52.5
52.0
51.5
51.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

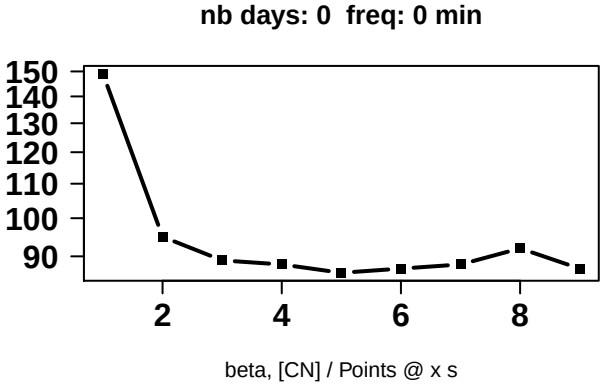

nb days: 0 freq: 0 min
100
95
90
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

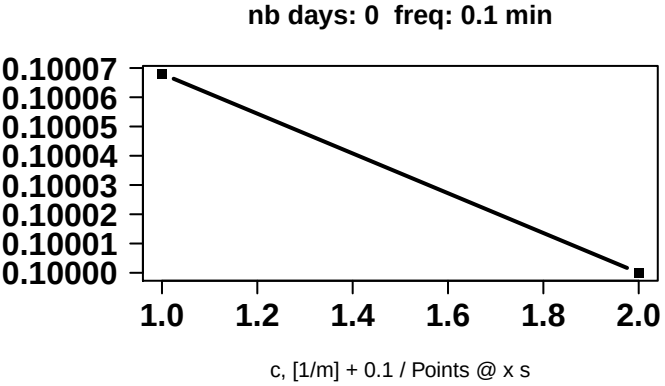

2013−08−29 17:20:42 2013−08−29 17:20:49
450
445
440
435
430
425
420
2
4
6
8
10
12
Pressure in

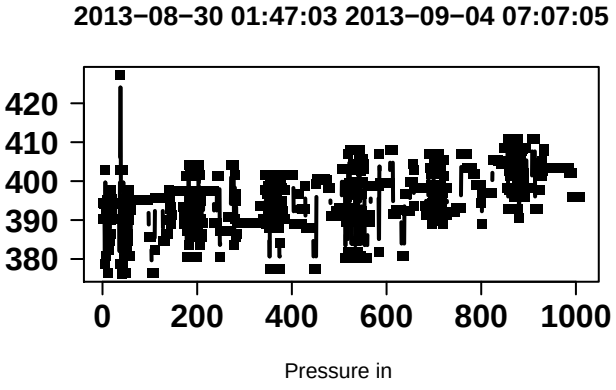

black 0.076 red 0.23
Seawater potential density anomaly
Seawater density − 1000
26.96
26.94
26.92
26.90
28.95
28.85
28.75
1.0
1.2
1.4
1.6
1.8
2.0

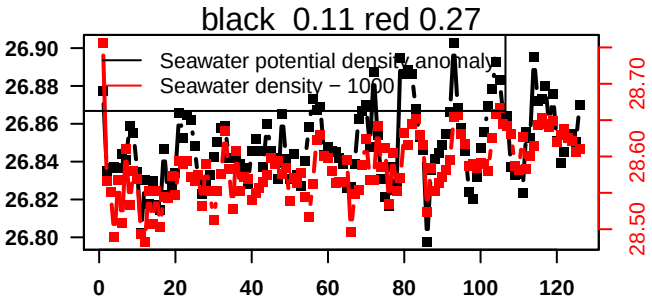

lovbio006b_034_02_06.txt
69
68
67
66
65
2
4
6
8
CDOM, [CN] / Points @ x s

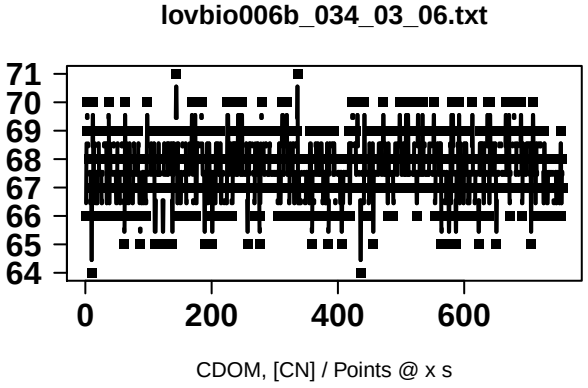

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

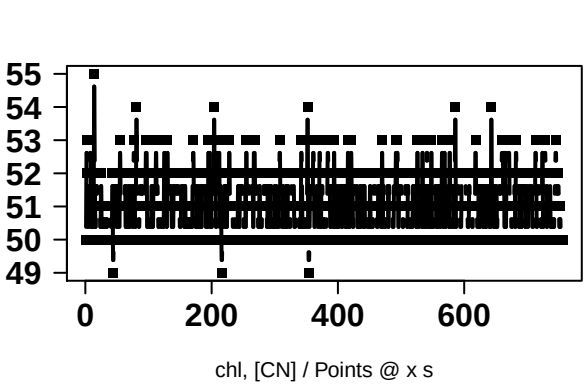

nb days: 0 freq: 0 min
150
140
130
120
110
100
90
2
4
6
8
beta, [CN] / Points @ x s

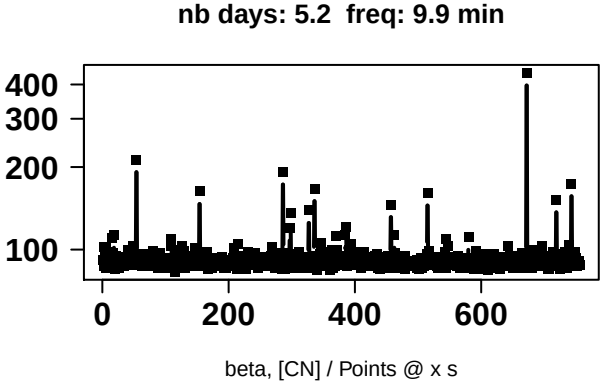

nb days: 0 freq: 0.1 min
0.10007
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

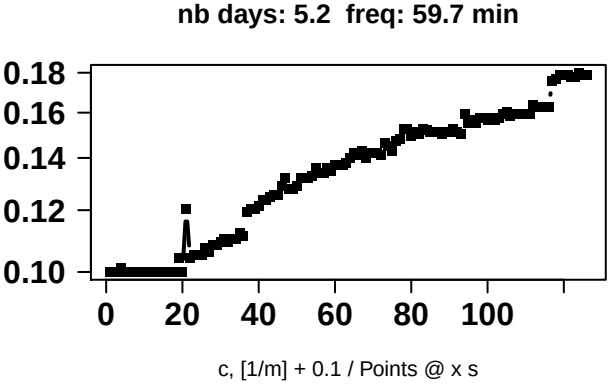

2013−08−30 01:47:03 2013−09−04 07:07:05
420
410
400
390
380
0
200
400
600
800
1000
Pressure in

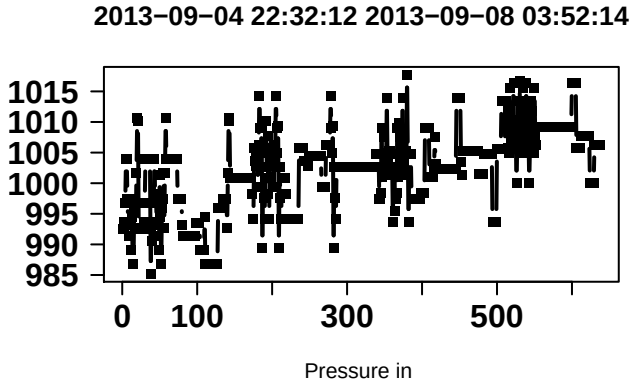

black 0.11 red 0.27
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
26.80
28.70
28.60
28.50
0
20
40
60
80
100
120

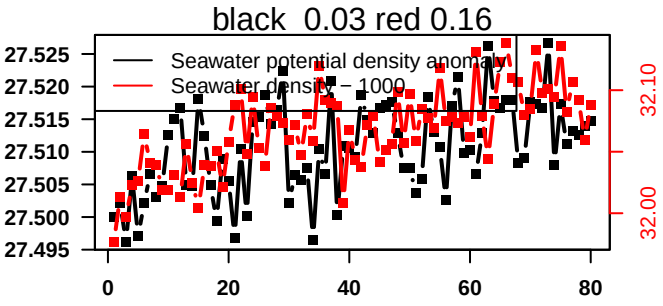

lovbio006b_034_03_06.txt
71
70
69
68
67
66
65
64
0
200
400
600
CDOM, [CN] / Points @ x s

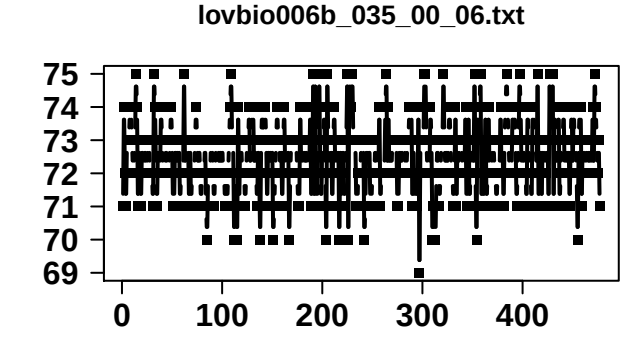

55
54
53
52
51
50
49
0
200
400
600
chl, [CN] / Points @ x s

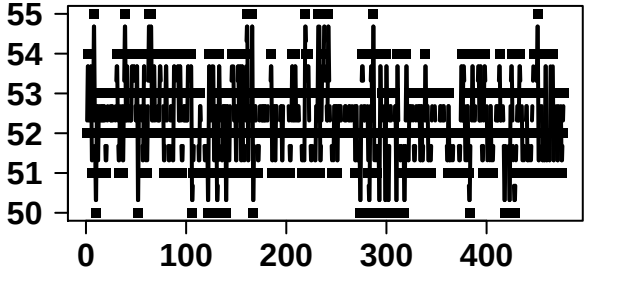

nb days: 5.2 freq: 9.9 min
400
300
200
100
0
200
400
600
beta, [CN] / Points @ x s

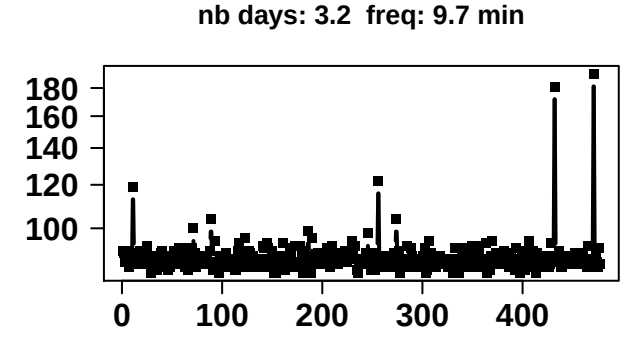

nb days: 5.2 freq: 59.7 min
0.18
0.16
0.14
0.12
0.10
0
20
40
60
80
100
c, [1/m] + 0.1 / Points @ x s

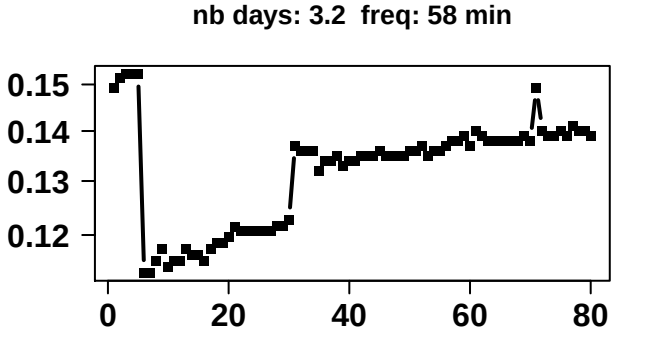

2013−09−04 22:32:12 2013−09−08 03:52:14
1015
1010
1005
1000
995
990
985
0
100
300
500
Pressure in

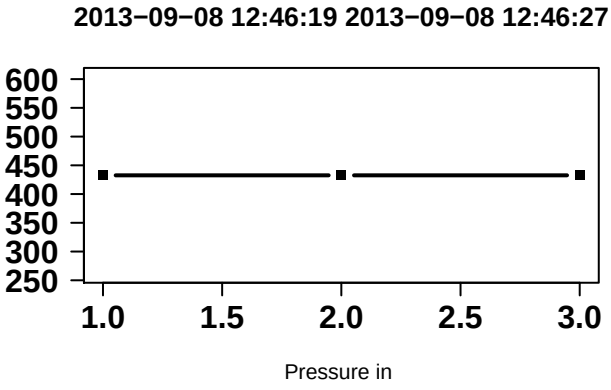

black 0.03 red 0.16
Seawater potential density anomaly
Seawater density − 1000
27.525
27.520
27.515
27.510
27.505
27.500
27.495
32.10
32.00
0
20
40
60
80

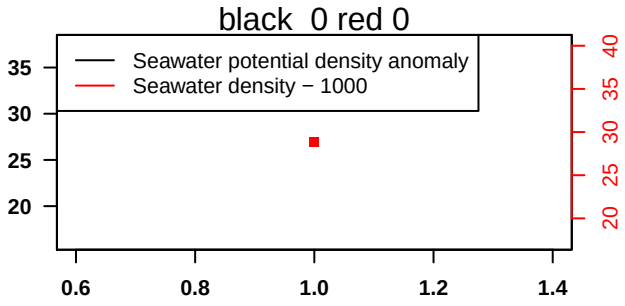

lovbio006b_035_00_06.txt
75
74
73
72
71
70
69
0
100
200
300
400
CDOM, [CN] / Points @ x s

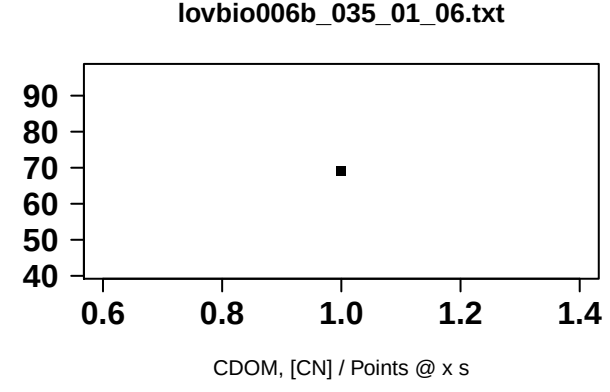

55
54
53
52
51
50
0
100
200
300
400
chl, [CN] / Points @ x s

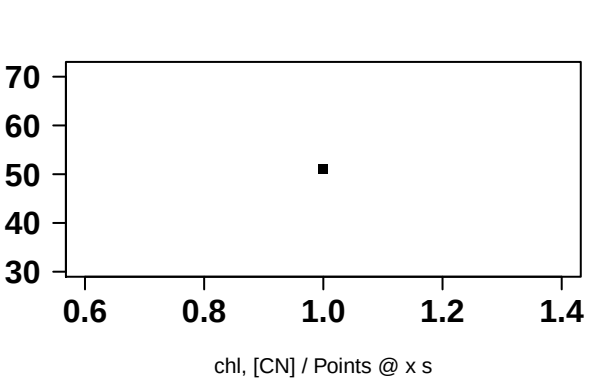

nb days: 3.2 freq: 9.7 min
180
160
140
120
100
0
100
200
300
400
beta, [CN] / Points @ x s

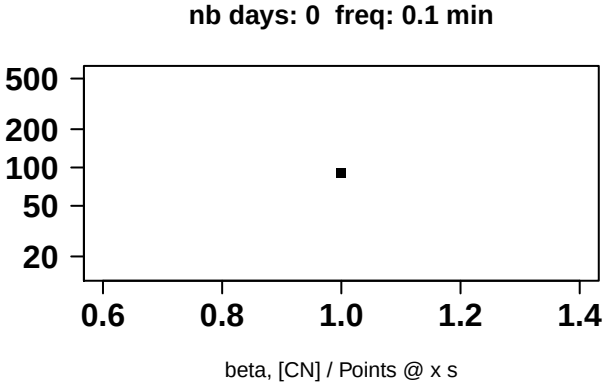

nb days: 3.2 freq: 58 min
0.15
0.14
0.13
0.12
0
20
40
60
80
c, [1/m] + 0.1 / Points @ x s

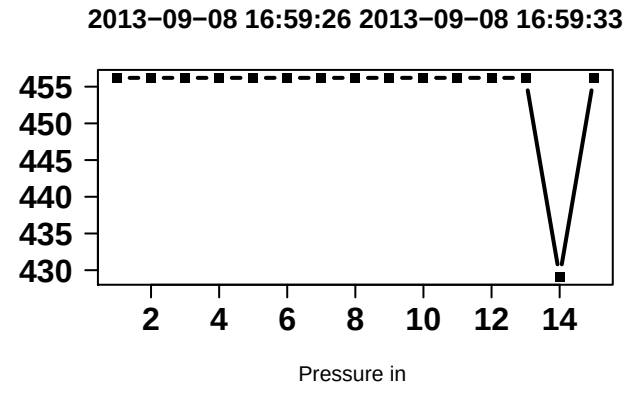

2013−09−08 12:46:19 2013−09−08 12:46:27
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

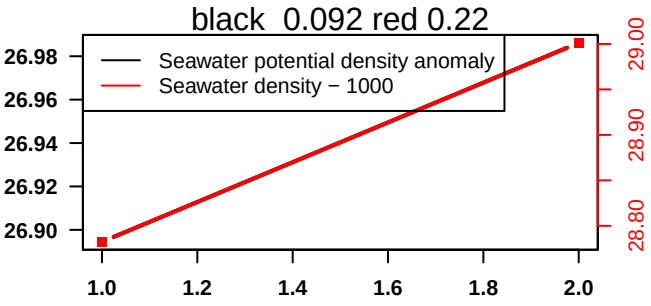

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

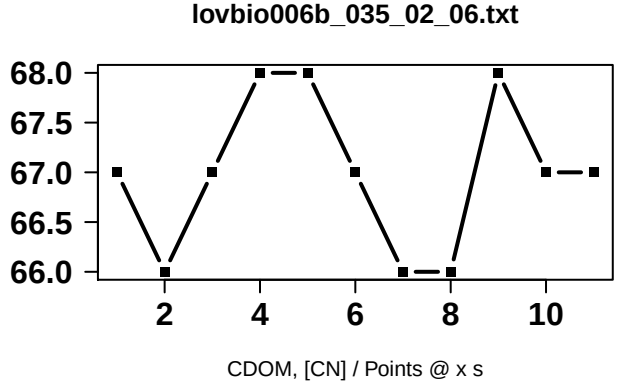

lovbio006b_035_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

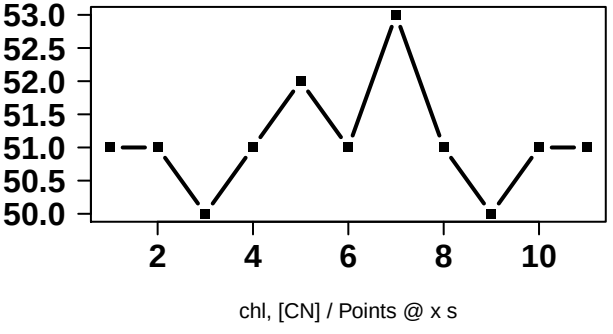

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

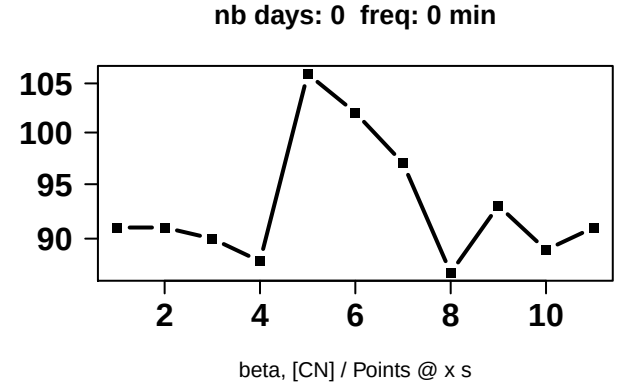

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

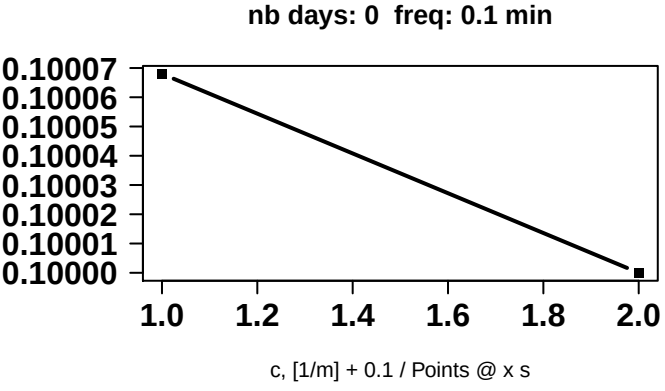

2013−09−08 16:59:26 2013−09−08 16:59:33
455
450
445
440
435
430
2
4
6
8
10
12
14
Pressure in

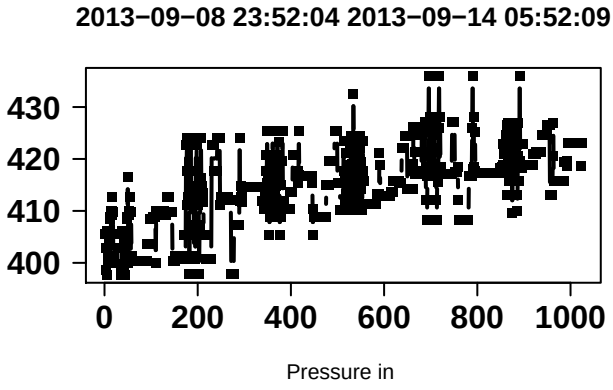

black 0.092 red 0.22
Seawater potential density anomaly
Seawater density − 1000
26.98
26.96
26.94
26.92
26.90
29.00
28.90
28.80
1.0
1.2
1.4
1.6
1.8
2.0

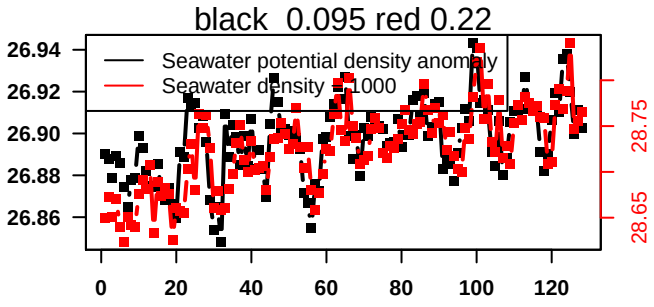

lovbio006b_035_02_06.txt
68.0
67.5
67.0
66.5
66.0
2
4
6
8
10
CDOM, [CN] / Points @ x s

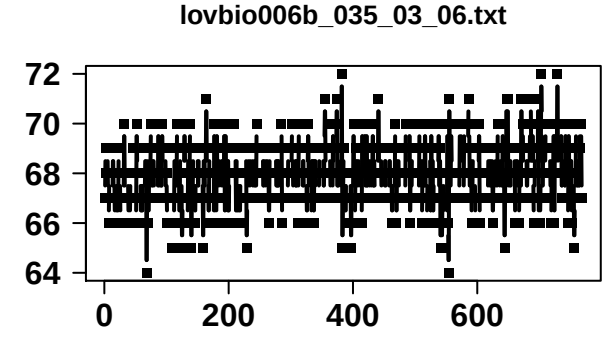

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

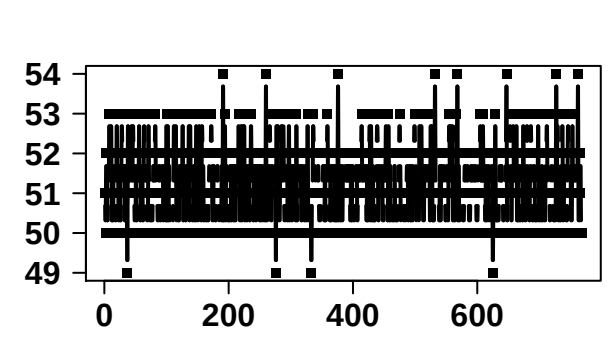

nb days: 0 freq: 0 min
105
100
95
90
2
4
6
8
10
beta, [CN] / Points @ x s

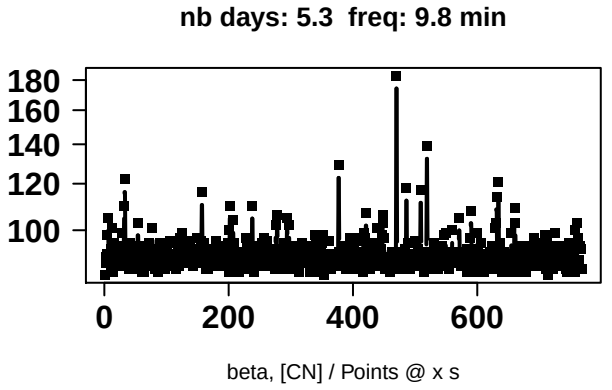

nb days: 0 freq: 0.1 min
0.10007
0.10006
0.10005
0.10004
0.10003
0.10002
0.10001
0.10000
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

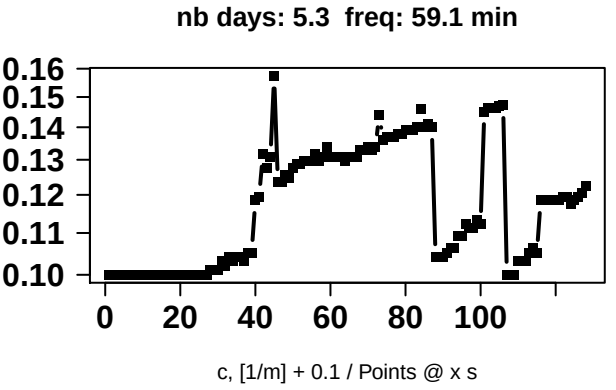

2013−09−08 23:52:04 2013−09−14 05:52:09
430
420
410
400
0
200
400
600
800
1000
Pressure in

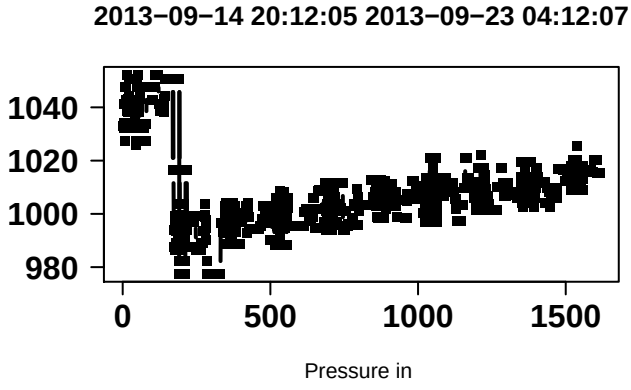

black 0.095 red 0.22
Seawater potential density anomaly
Seawater density − 1000
26.94
26.92
26.90
26.88
26.86
28.75
28.65
0
20
40
60
80
100
120

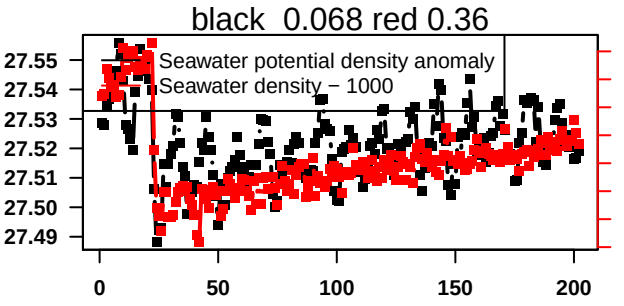

lovbio006b_035_03_06.txt
72
70
68
66
64
0
200
400
600
CDOM, [CN] / Points @ x s

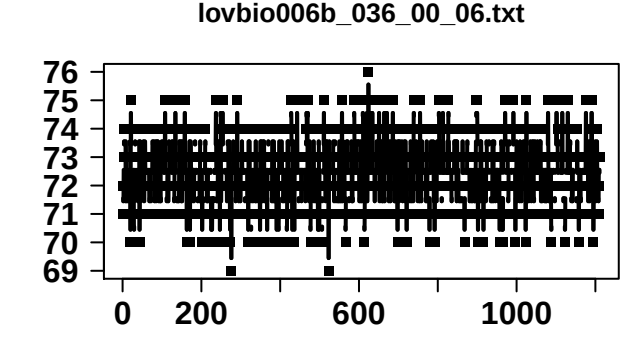

54
53
52
51
50
49
0
200
400
600
chl, [CN] / Points @ x s

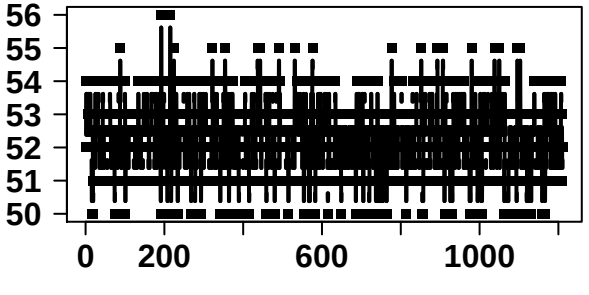

nb days: 5.3 freq: 9.8 min
180
160
140
120
100
0
200
400
600
beta, [CN] / Points @ x s

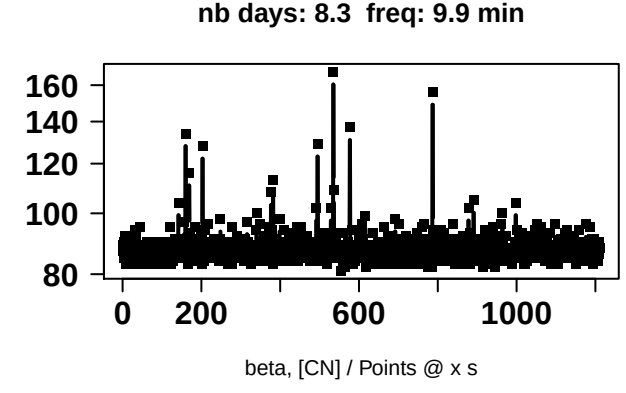

nb days: 5.3 freq: 59.1 min
0.16
0.15
0.14
0.13
0.12
0.11
0.10
0
20
40
60
80
100
c, [1/m] + 0.1 / Points @ x s

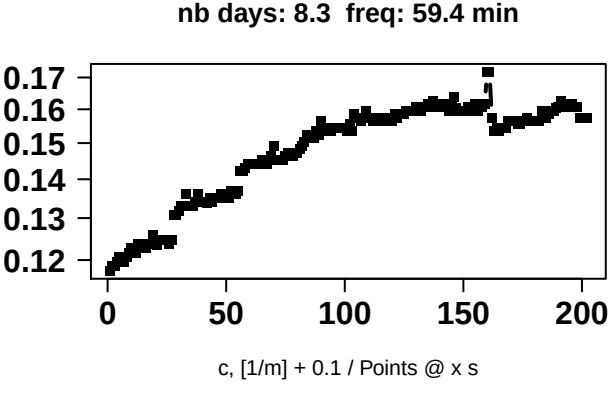

2013−09−14 20:12:05 2013−09−23 04:12:07
1040
1020
1000
980
0
500
1000
1500
Pressure in

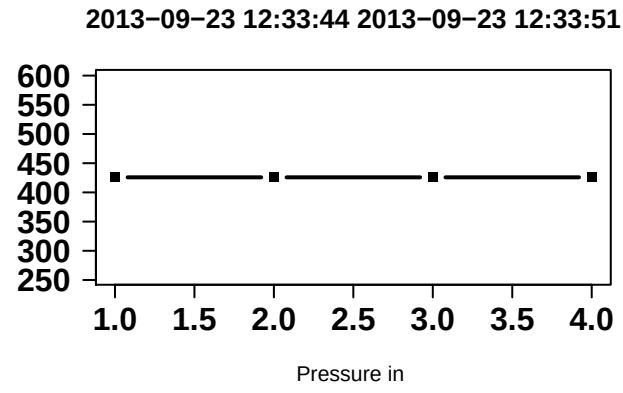

black 0.068 red 0.36
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
27.50
27.49
32.25
32.10
31.95
0
50
100
150
200

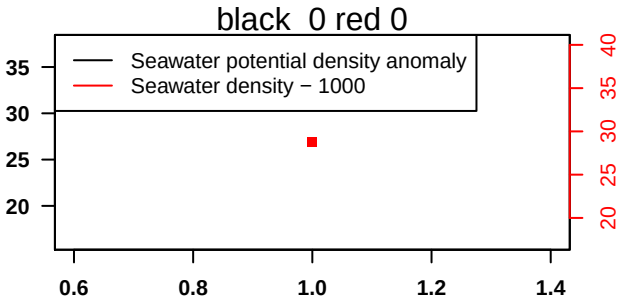

lovbio006b_036_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

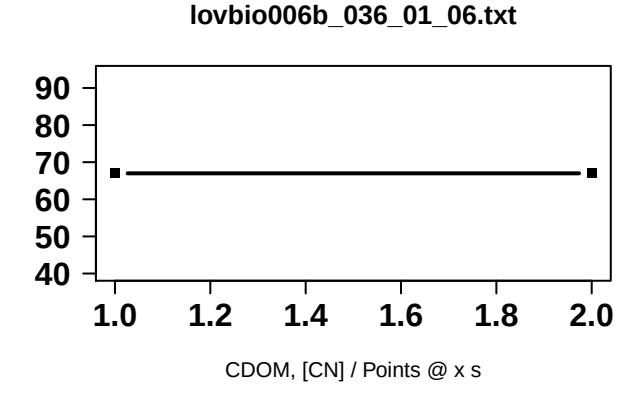

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

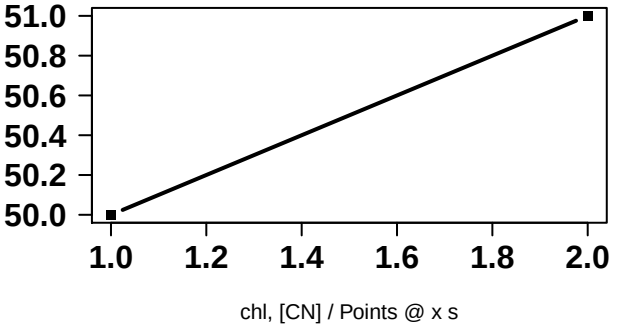

nb days: 8.3 freq: 9.9 min
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

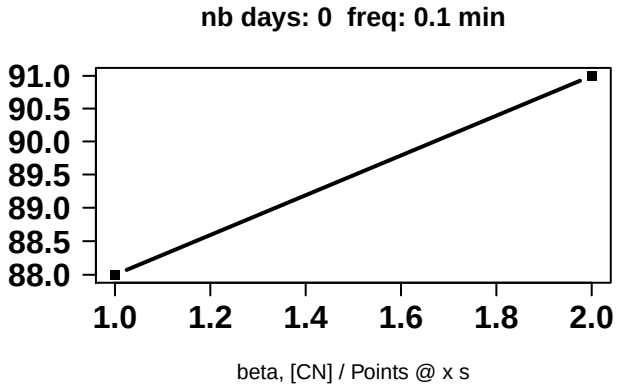

nb days: 8.3 freq: 59.4 min
0.17
0.16
0.15
0.14
0.13
0.12
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

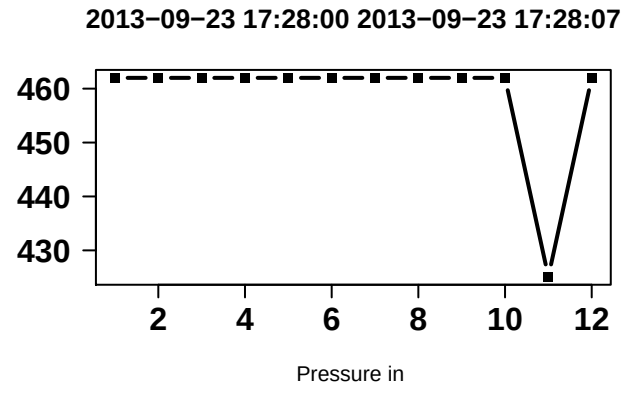

2013−09−23 12:33:44 2013−09−23 12:33:51
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

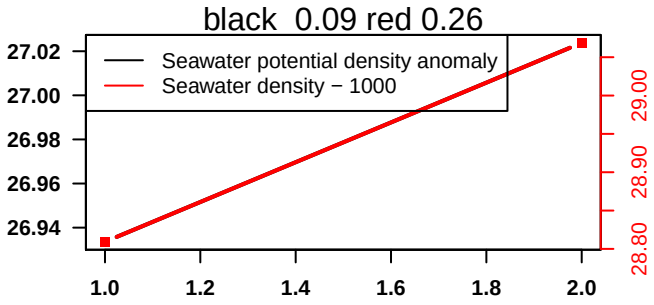

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

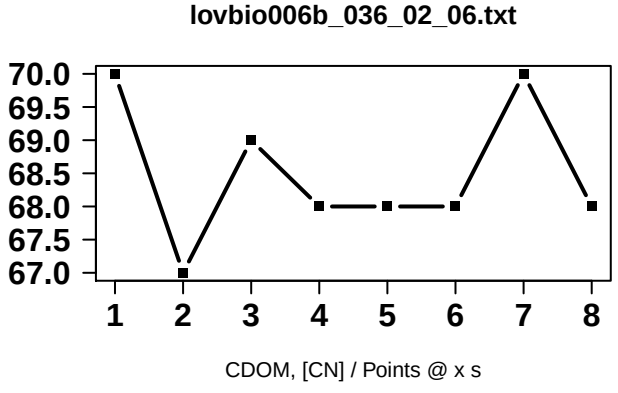

lovbio006b_036_01_06.txt
90
80
70
60
50
40
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

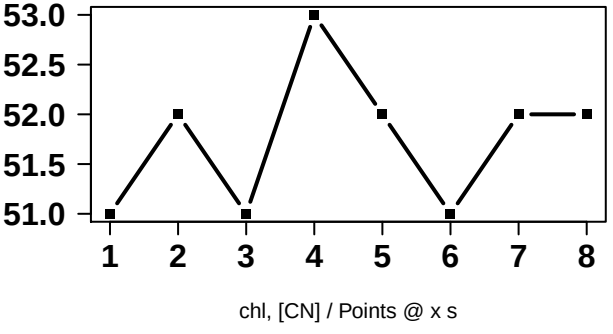

51.0
50.8
50.6
50.4
50.2
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

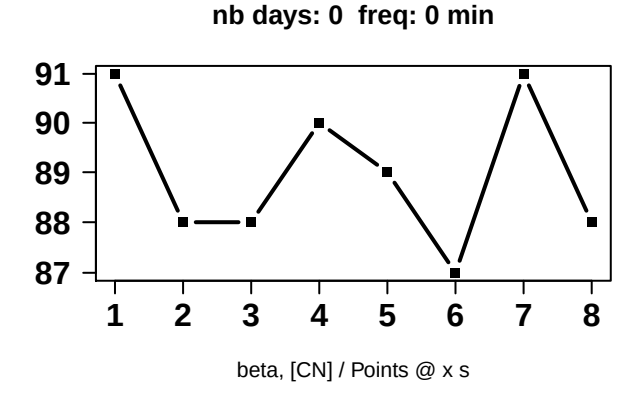

nb days: 0 freq: 0.1 min
91.0
90.5
90.0
89.5
89.0
88.5
88.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

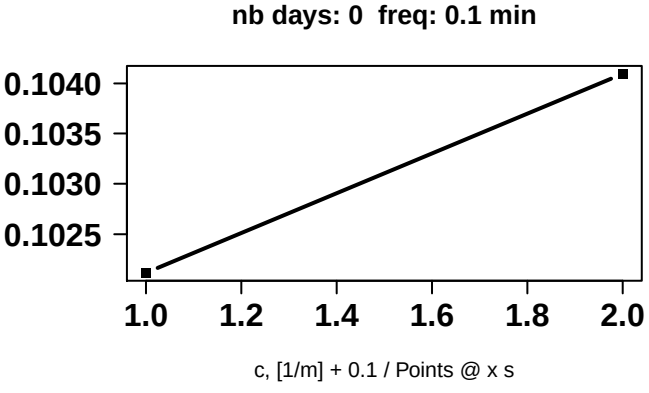

2013−09−23 17:28:00 2013−09−23 17:28:07
460
450
440
430
2
4
6
8
10
12
Pressure in

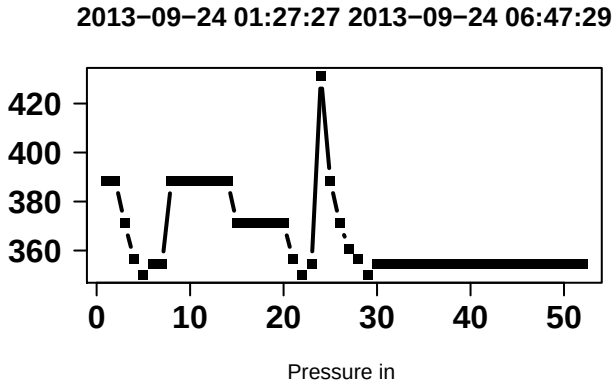

black 0.09 red 0.26
Seawater potential density anomaly
Seawater density − 1000
27.02
27.00
26.98
26.96
26.94
1.0
1.2
1.4
1.6
1.8
2.0
29.00
28.90
28.80

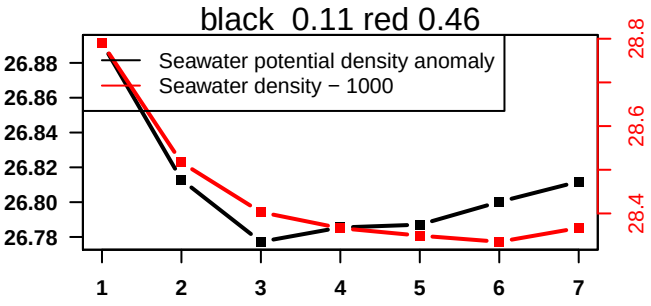

lovbio006b_036_02_06.txt
70.0
69.5
69.0
68.5
68.0
67.5
67.0
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

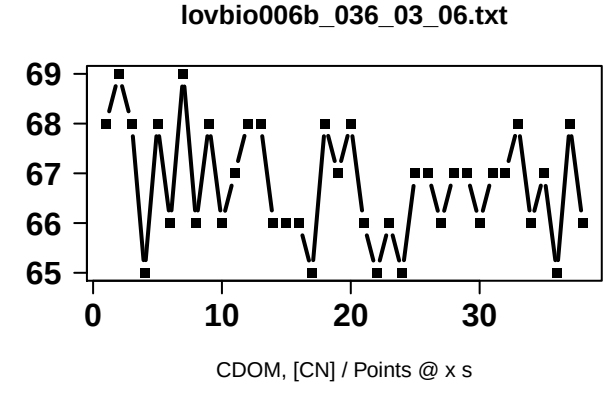

53.0
52.5
52.0
51.5
51.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

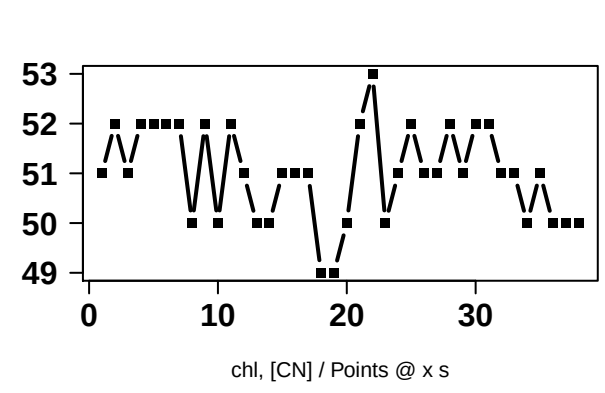

nb days: 0 freq: 0 min
91
90
89
88
87
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

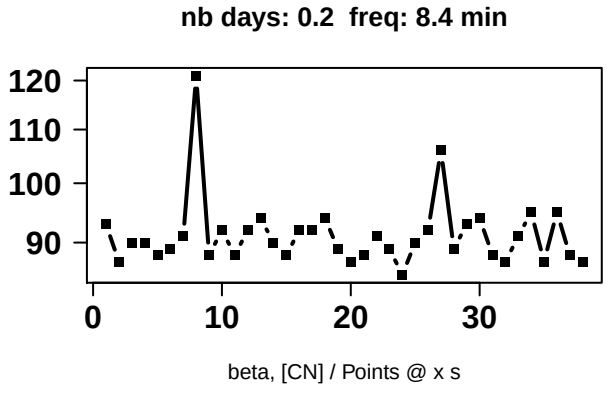

nb days: 0 freq: 0.1 min
0.1040
0.1035
0.1030
0.1025
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

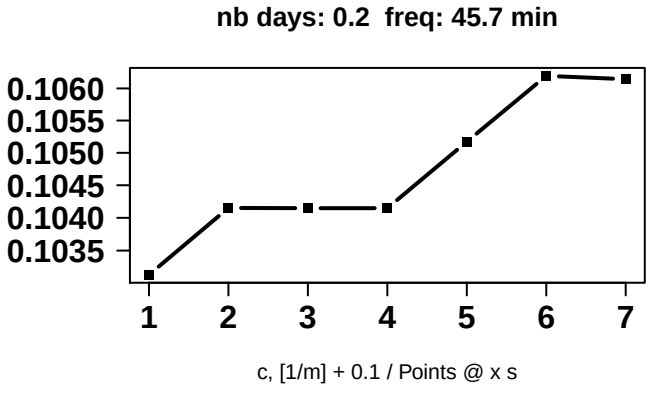

2013−09−24 01:27:27 2013−09−24 06:47:29
420
400
380
360
0
10
20
30
40
50
Pressure in

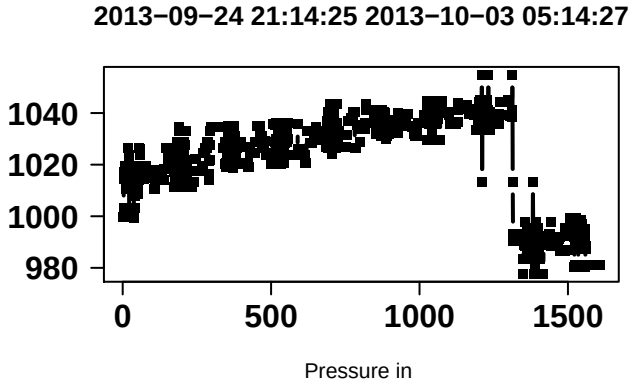

black 0.11 red 0.46
Seawater potential density anomaly
Seawater density − 1000
26.88
26.86
26.84
26.82
26.80
26.78
28.8
28.6
28.4
1
2
3
4
5
6
7

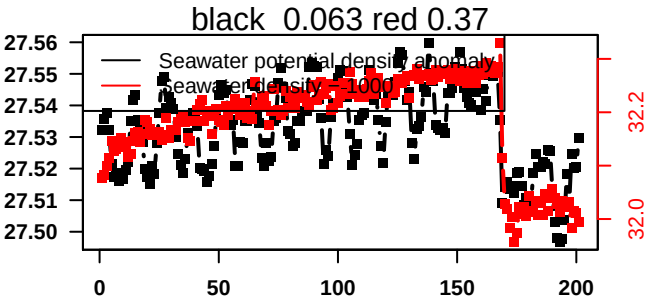

lovbio006b_036_03_06.txt
69
68
67
66
65
0
10
20
30
CDOM, [CN] / Points @ x s

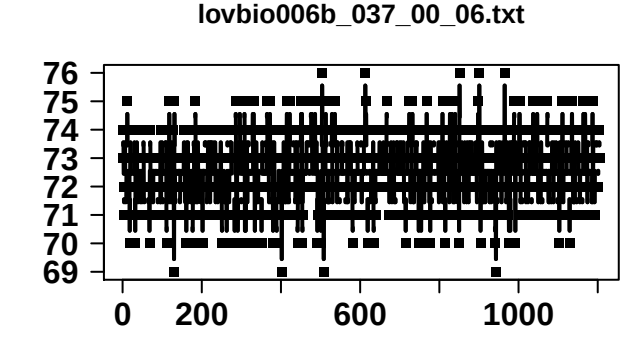

53
52
51
50
49
0
10
20
30
chl, [CN] / Points @ x s

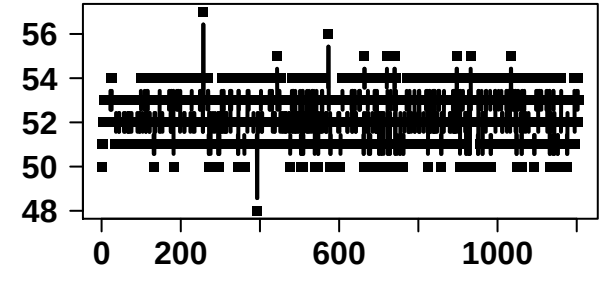

nb days: 0.2 freq: 8.4 min
120
110
100
90
0
10
20
30
beta, [CN] / Points @ x s

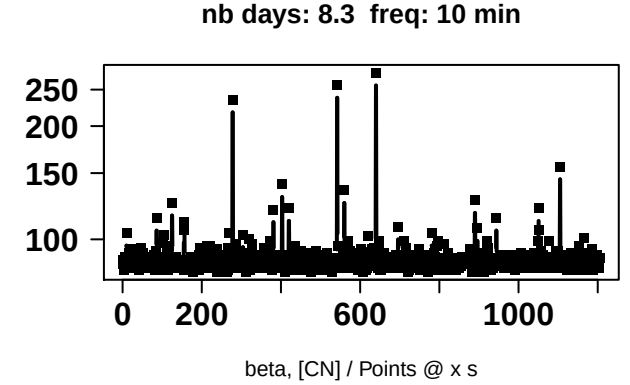

nb days: 0.2 freq: 45.7 min
0.1060
0.1055
0.1050
0.1045
0.1040
0.1035
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

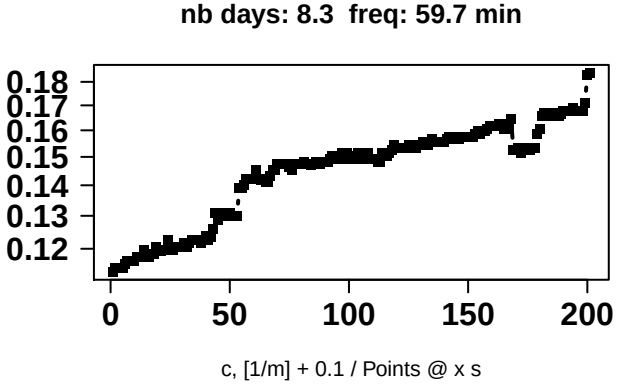

2013−09−24 21:14:25 2013−10−03 05:14:27
1040
1020
1000
980
0
500
1000
1500
Pressure in

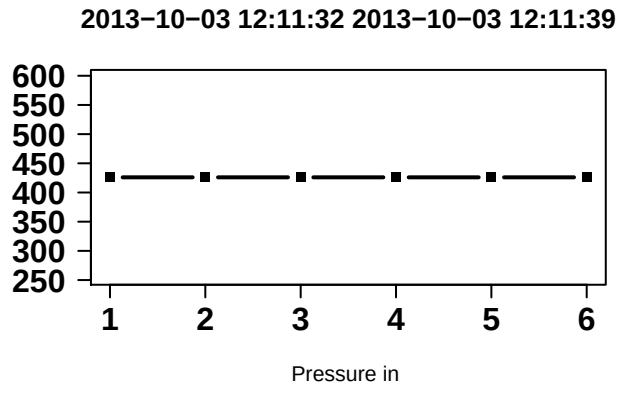

black 0.063 red 0.37
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
27.51
27.50
32.2
32.0
0
50
100
150
200

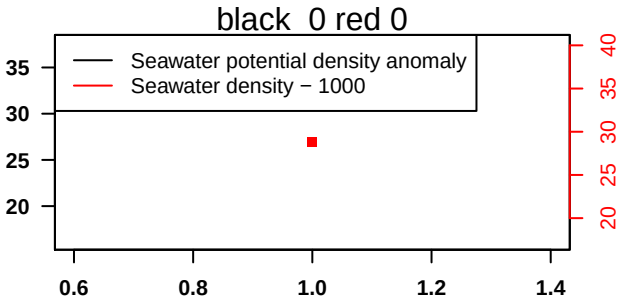

lovbio006b_037_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

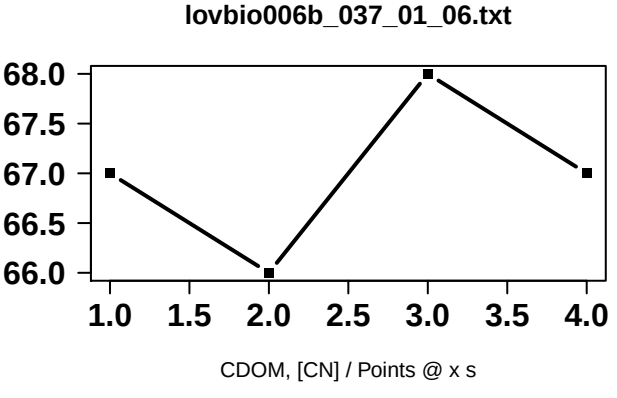

56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

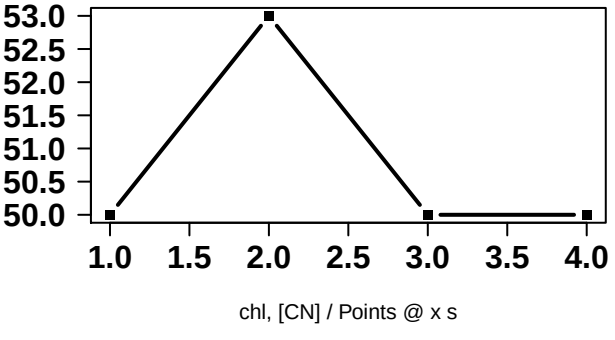

nb days: 8.3 freq: 10 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

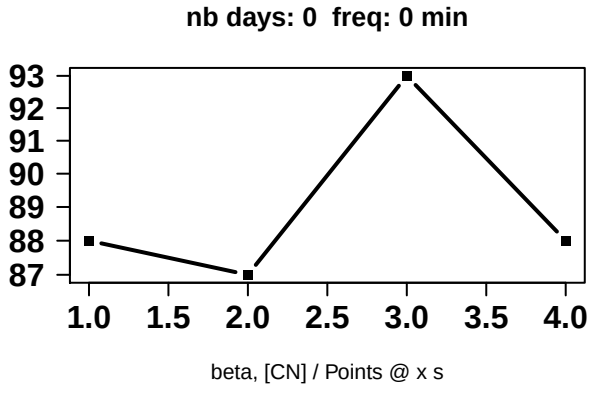

nb days: 8.3 freq: 59.7 min
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

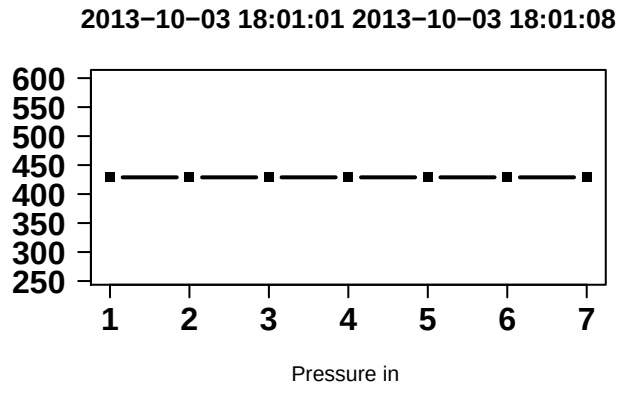

2013−10−03 12:11:32 2013−10−03 12:11:39
600
550
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

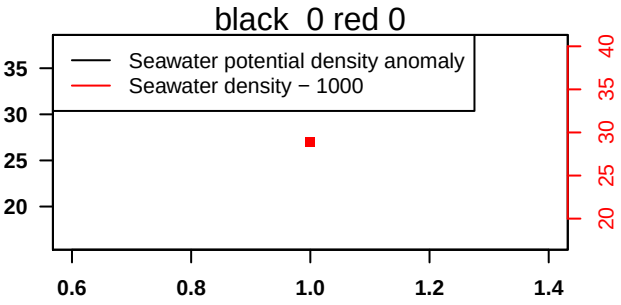

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

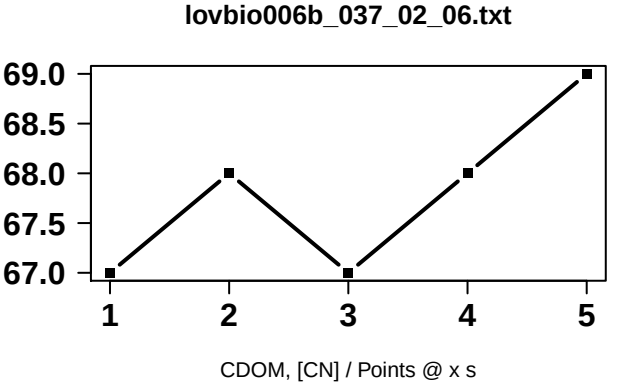

lovbio006b_037_01_06.txt
68.0
67.5
67.0
66.5
66.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

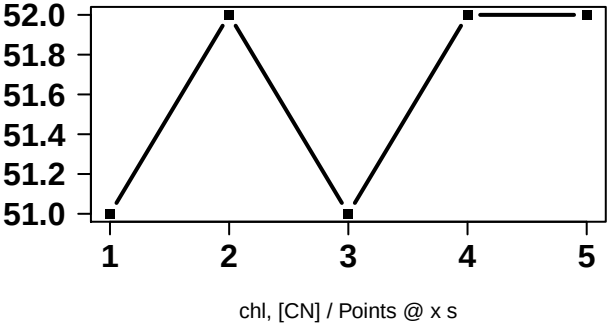

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

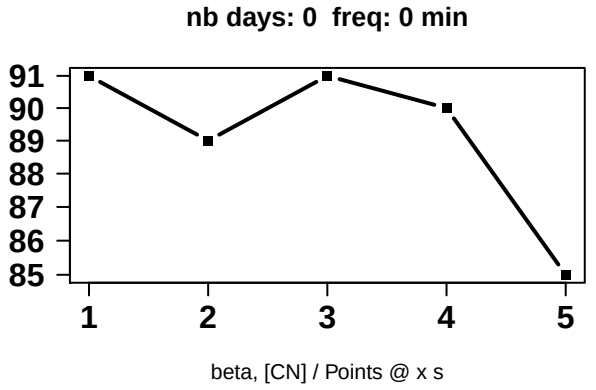

nb days: 0 freq: 0 min
93
92
91
90
89
88
87
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

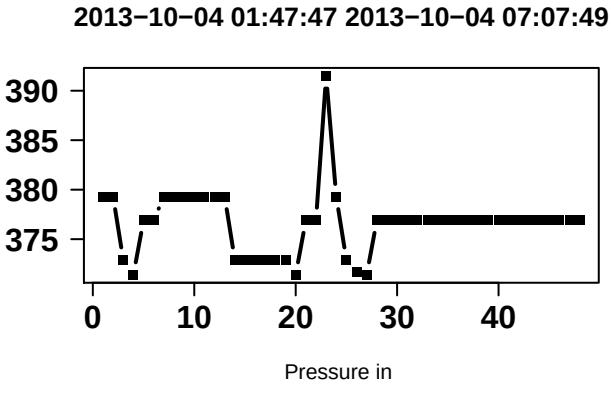

2013−10−03 18:01:01 2013−10−03 18:01:08
600
550
500
450
400
350
300
250
1
2
3
4
5
6
7
Pressure in

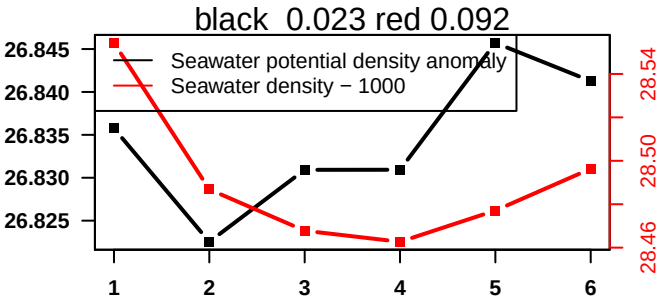

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

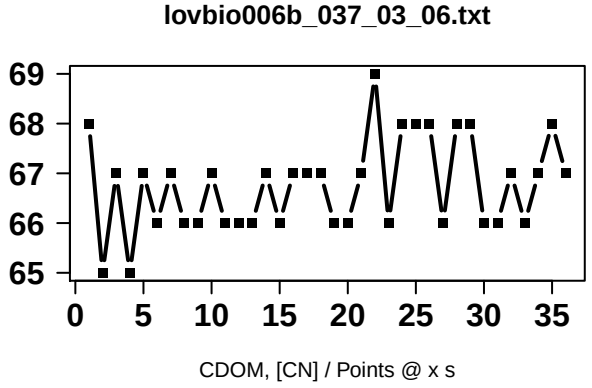

lovbio006b_037_02_06.txt
69.0
68.5
68.0
67.5
67.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

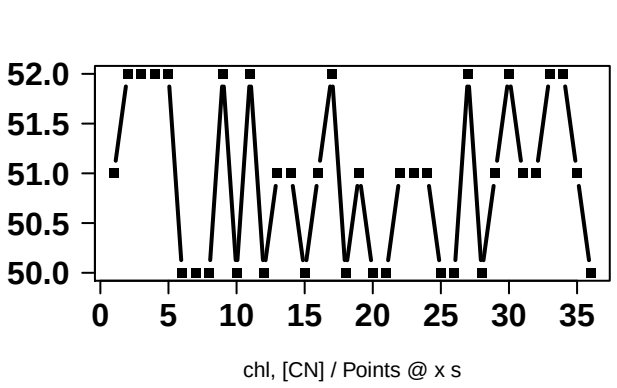

52.0
51.8
51.6
51.4
51.2
51.0
1
2
3
4
5
chl, [CN] / Points @ x s

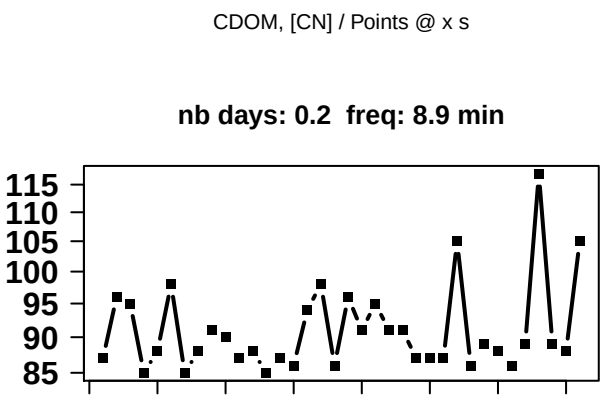

nb days: 0 freq: 0 min
91
90
89
88
87
86
85
1
2
3
4
5
beta, [CN] / Points @ x s

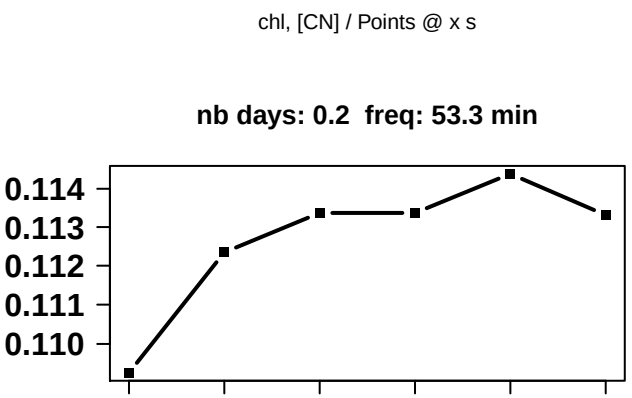

2013−10−04 01:47:47 2013−10−04 07:07:49
390
385
380
375
0
10
20
30
40
Pressure in

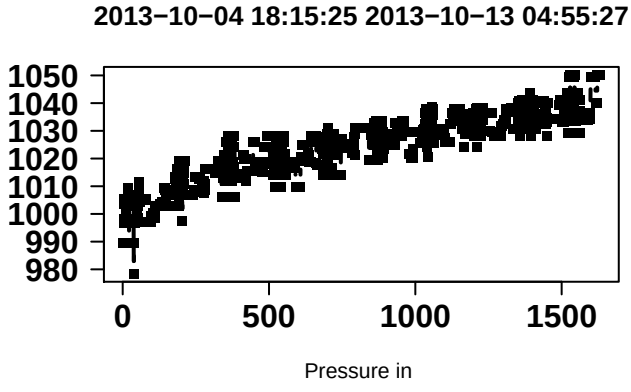

black 0.023 red 0.092
Seawater potential density anomaly
Seawater density − 1000
26.845
26.840
26.835
26.830
26.825
28.54
28.50
28.46
1
2
3
4
5
6

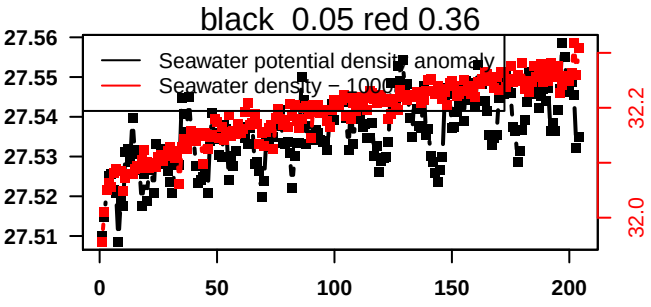

lovbio006b_037_03_06.txt
69
68
67
66
65
0
5
10
15
20
25
30
35
CDOM, [CN] / Points @ x s

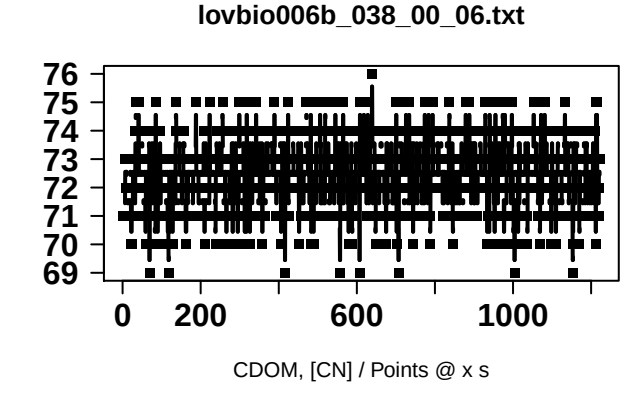

52.0
51.5
51.0
50.5
50.0
0
5
10
15
20
25
30
35
chl, [CN] / Points @ x s

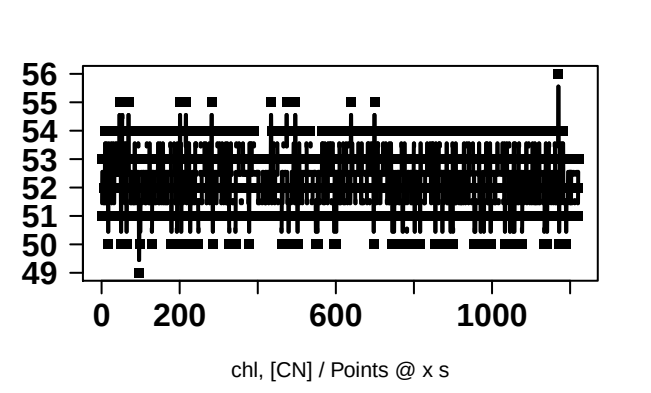

nb days: 0.2 freq: 8.9 min
115
110
105
100
95
90
85
0
5
10
15
20
25
30
35
beta, [CN] / Points @ x s

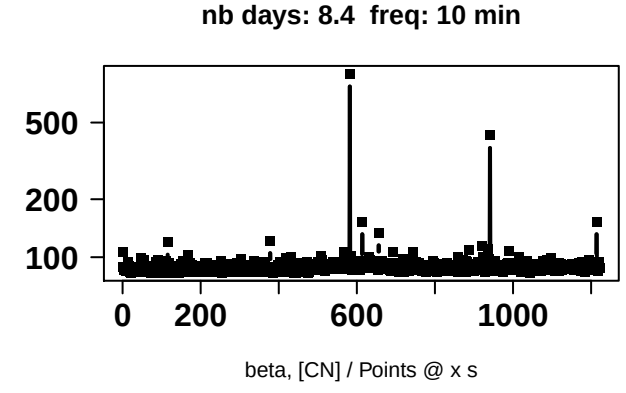

nb days: 0.2 freq: 53.3 min
0.114
0.113
0.112
0.111
0.110
1
2
3
4
5
6
c, [1/m] + 0.1 / Points @ x s

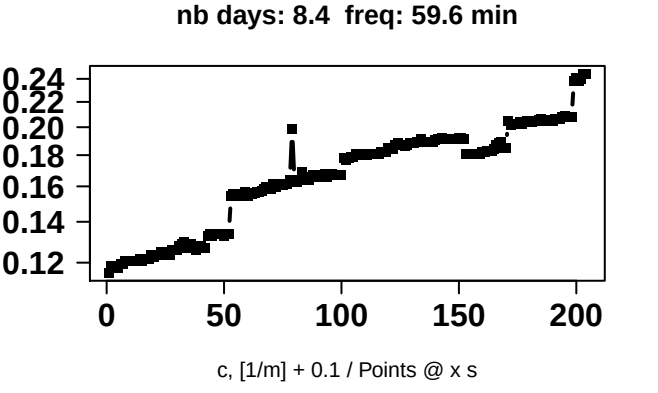

2013−10−04 18:15:25 2013−10−13 04:55:27
1050
1040
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

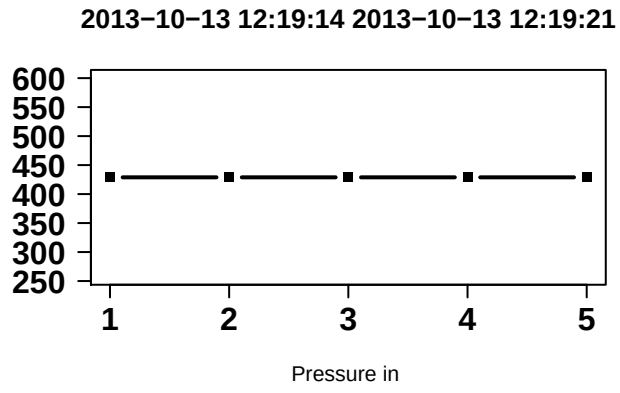

black 0.05 red 0.36
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
27.51
32.2
32.0
0
50
100
150
200

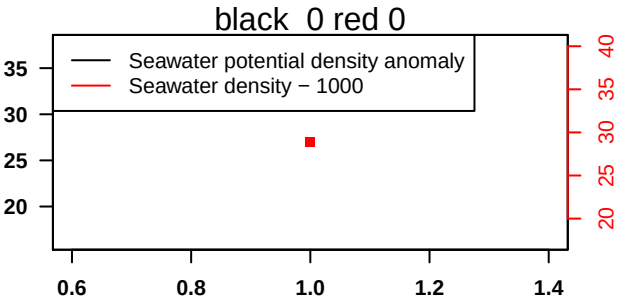

lovbio006b_038_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

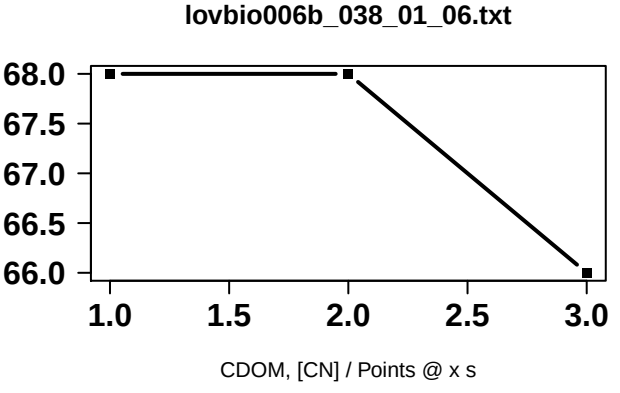

56
55
54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

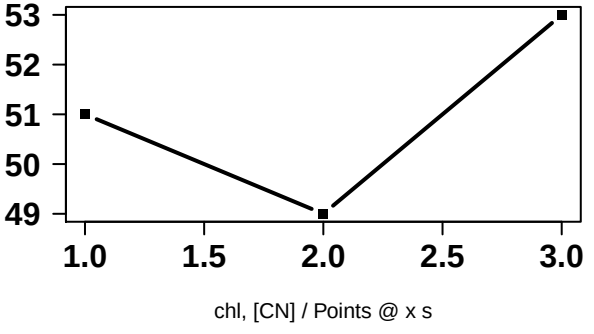

nb days: 8.4 freq: 10 min
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

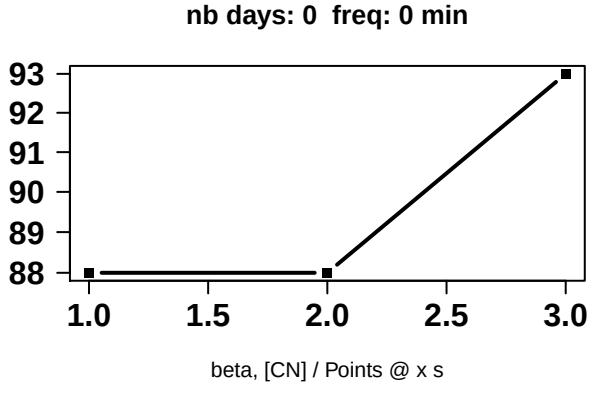

nb days: 8.4 freq: 59.6 min
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

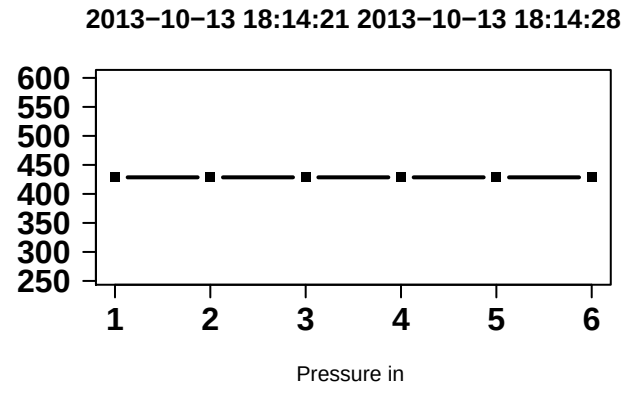

2013−10−13 12:19:14 2013−10−13 12:19:21
600
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

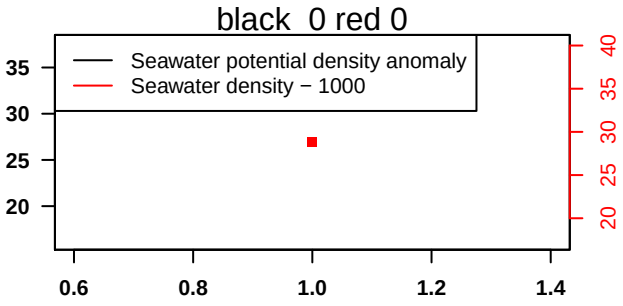

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

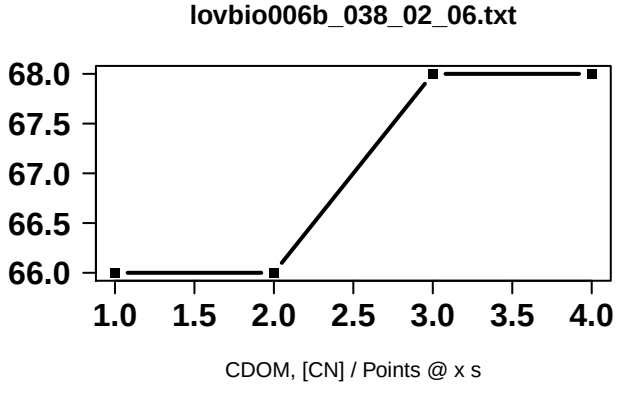

lovbio006b_038_01_06.txt
68.0
67.5
67.0
66.5
66.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

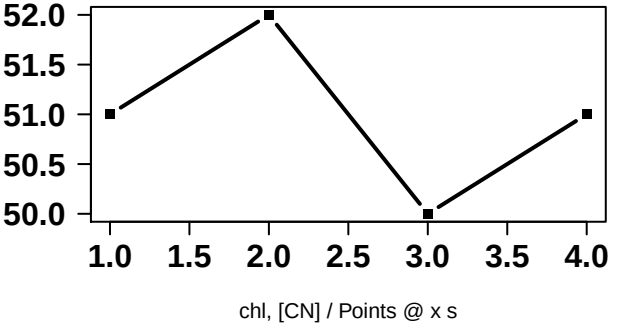

53
52
51
50
49
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

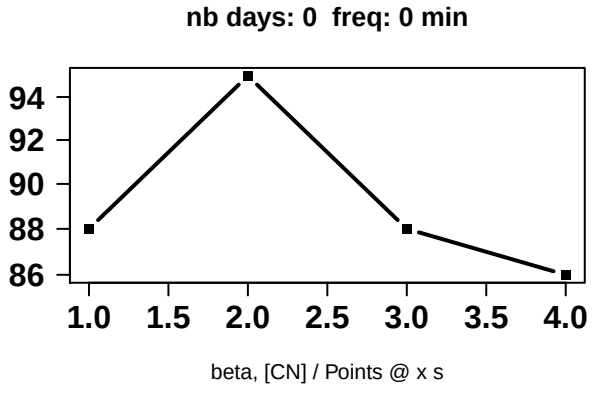

nb days: 0 freq: 0 min
93
92
91
90
89
88
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

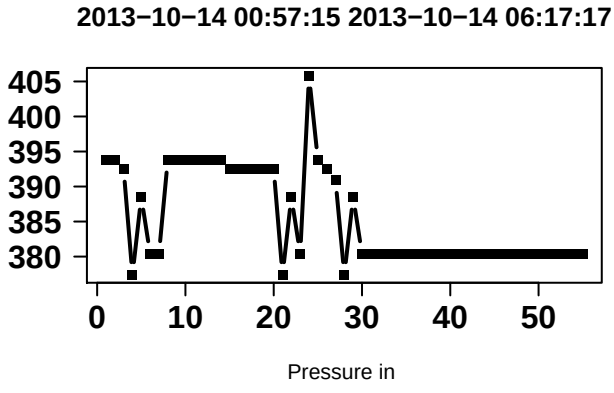

2013−10−13 18:14:21 2013−10−13 18:14:28
600
550
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

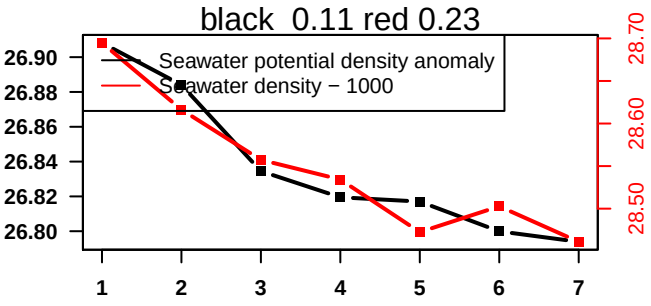

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

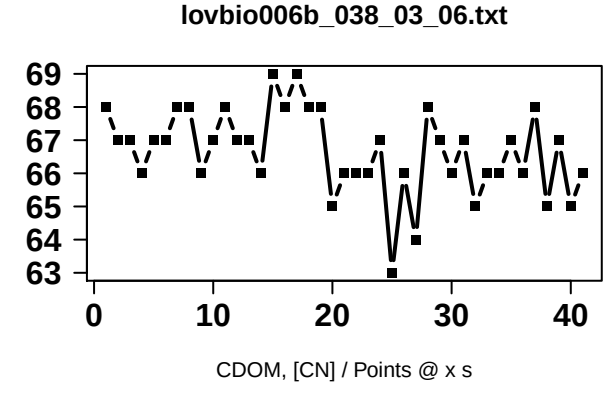

lovbio006b_038_02_06.txt
68.0
67.5
67.0
66.5
66.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

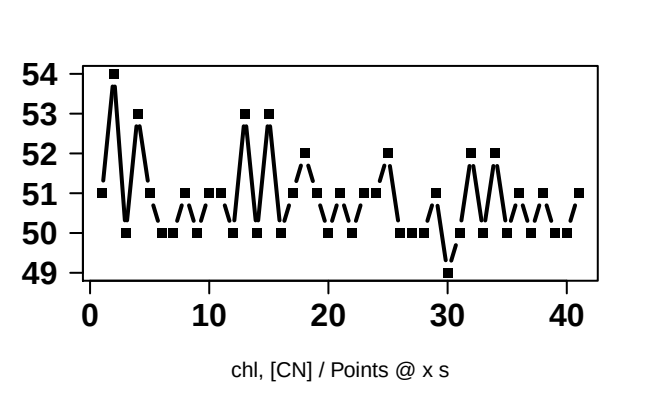

52.0
51.5
51.0
50.5
50.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

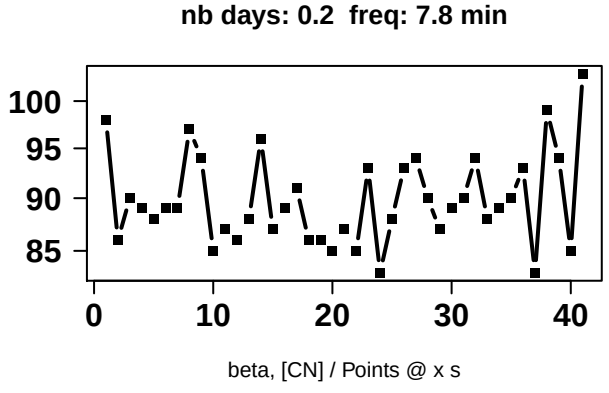

nb days: 0 freq: 0 min
94
92
90
88
86
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

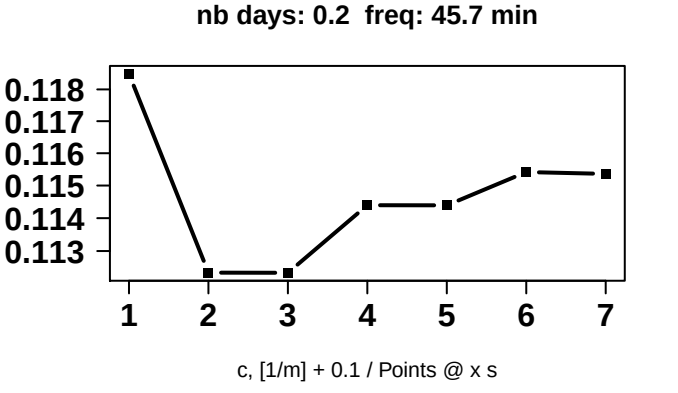

2013−10−14 00:57:15 2013−10−14 06:17:17
405
400
395
390
385
380
0
10
20
30
40
50
Pressure in

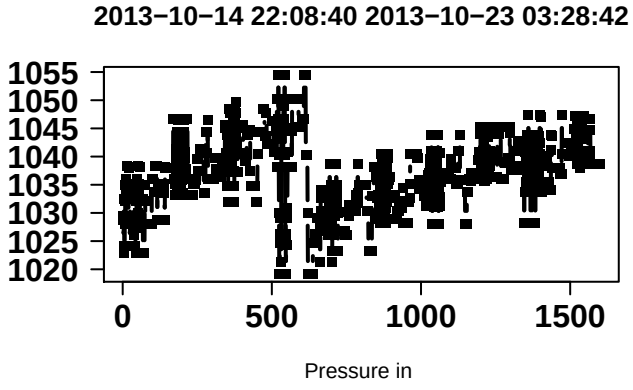

black 0.11 red 0.23
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
26.80
28.70
28.60
28.50
1
2
3
4
5
6
7

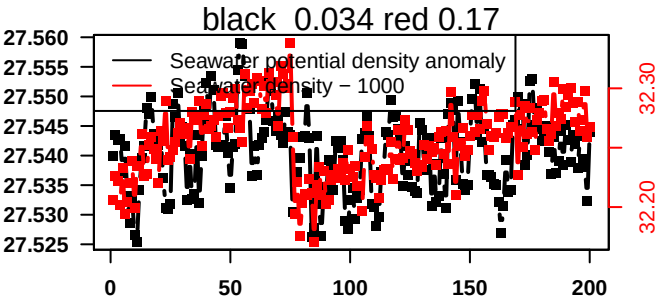

lovbio006b_038_03_06.txt
69
68
67
66
65
64
63
0
10
20
30
40
CDOM, [CN] / Points @ x s

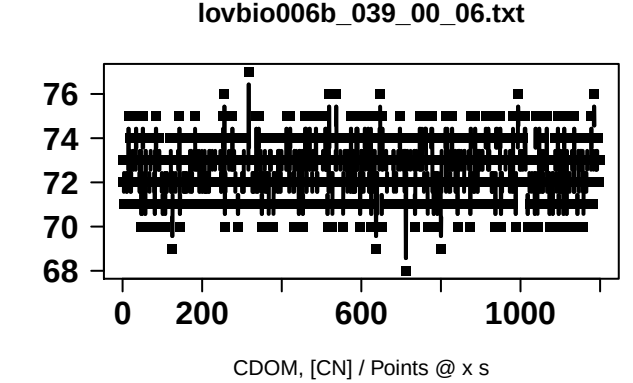

54
53
52
51
50
49
0
10
20
30
40
chl, [CN] / Points @ x s

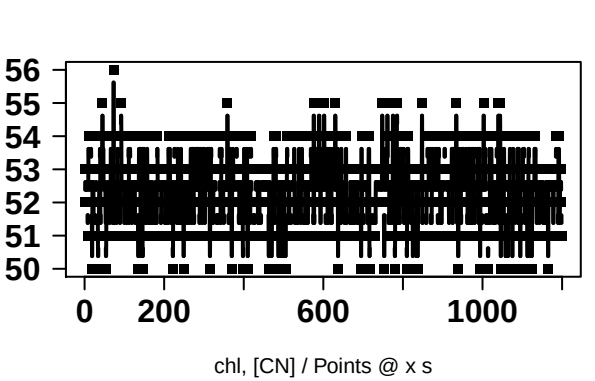

nb days: 0.2 freq: 7.8 min
100
95
90
85
0
10
20
30
40
beta, [CN] / Points @ x s

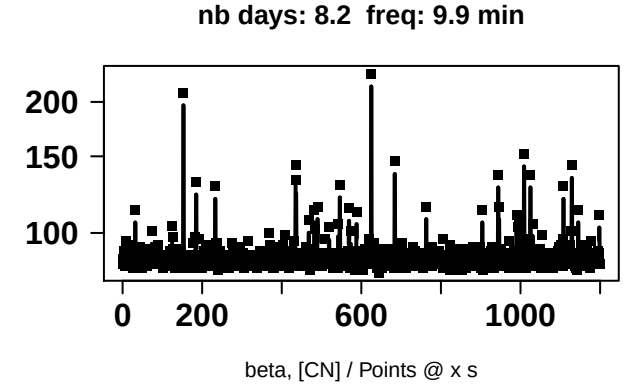

nb days: 0.2 freq: 45.7 min
0.118
0.117
0.116
0.115
0.114
0.113
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

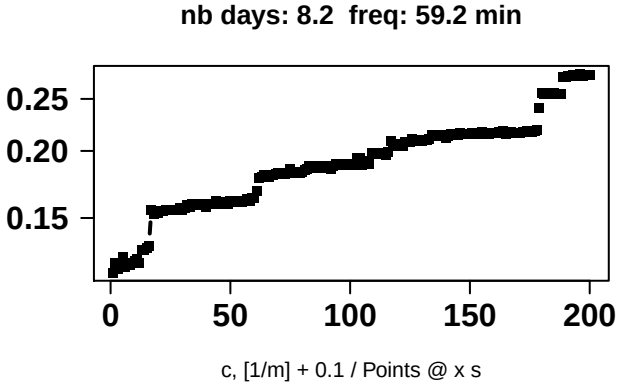

2013−10−14 22:08:40 2013−10−23 03:28:42
1055
1050
1045
1040
1035
1030
1025
1020
0
500
1000
1500
Pressure in

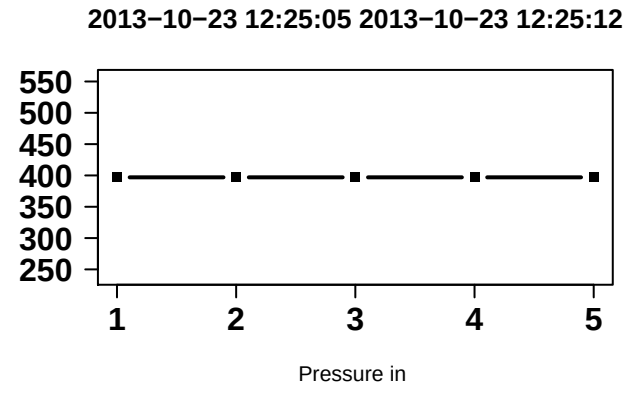

black 0.034 red 0.17
Seawater potential density anomaly
Seawater density − 1000
27.560
27.555
27.550
27.545
27.540
27.535
27.530
27.525
32.30
32.20
0
50
100
150
200

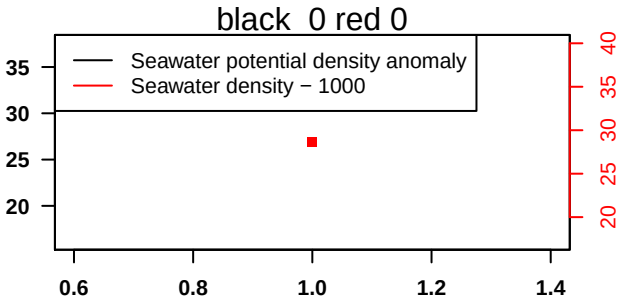

lovbio006b_039_00_06.txt
76
74
72
70
68
0
200
600
1000
CDOM, [CN] / Points @ x s

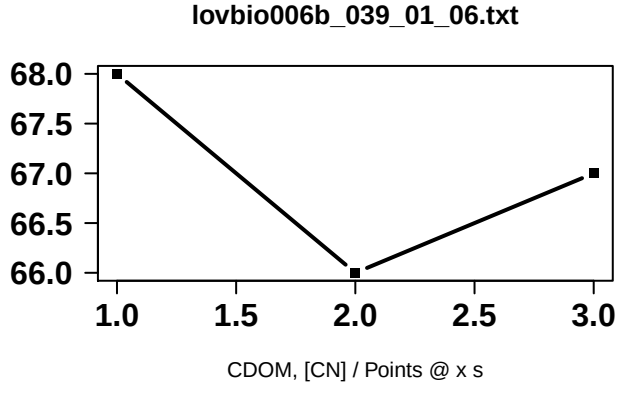

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

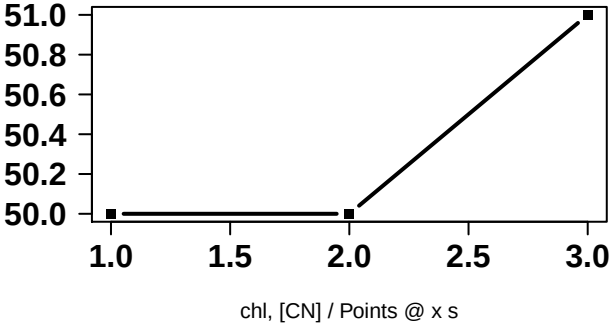

nb days: 8.2 freq: 9.9 min
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

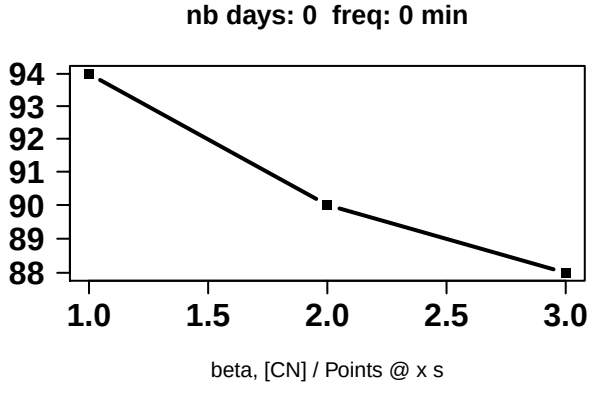

nb days: 8.2 freq: 59.2 min
0.25
0.20
0.15
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

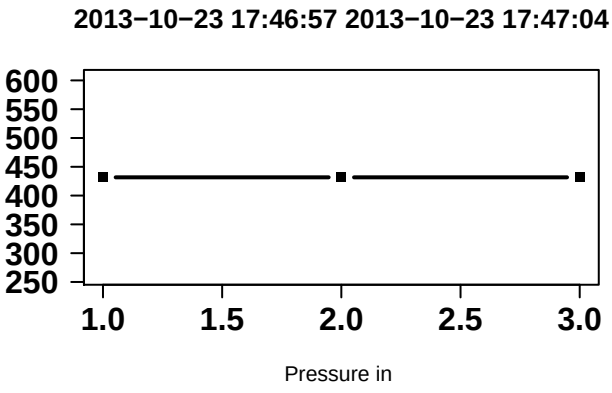

2013−10−23 12:25:05 2013−10−23 12:25:12
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

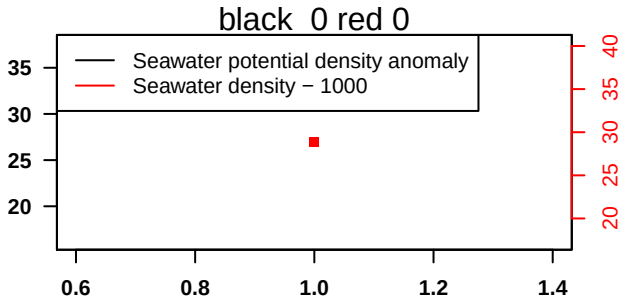

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

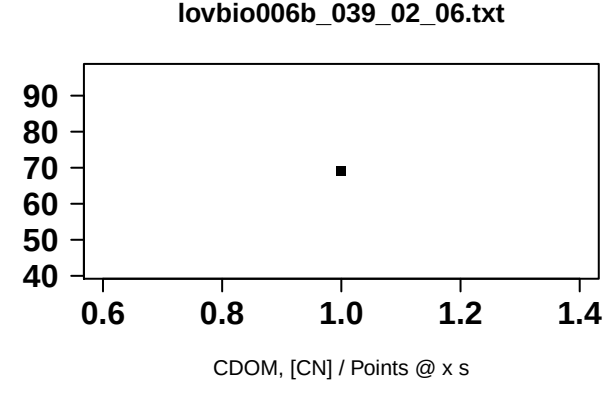

lovbio006b_039_01_06.txt
68.0
67.5
67.0
66.5
66.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

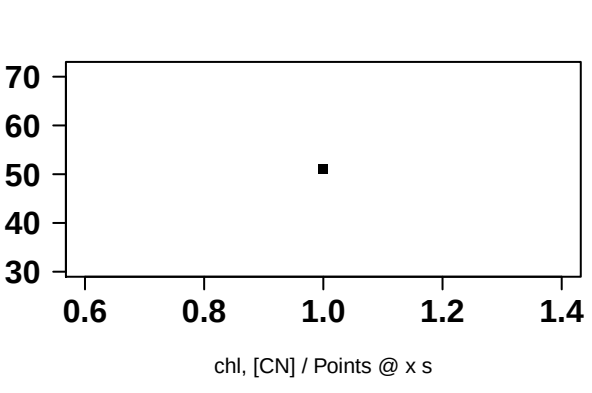

51.0
50.8
50.6
50.4
50.2
50.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

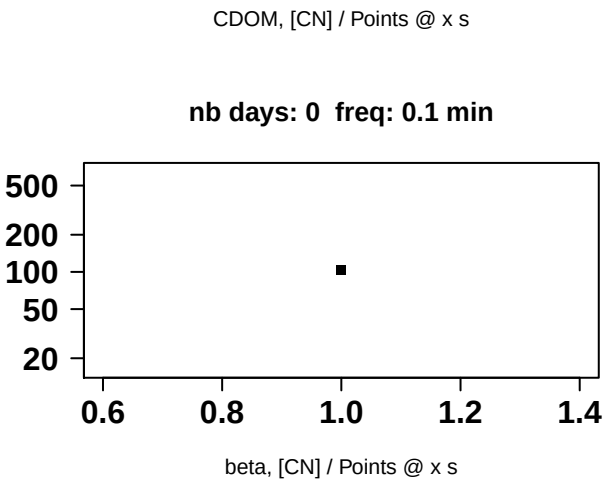

nb days: 0 freq: 0 min
94
93
92
91
90
89
88
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

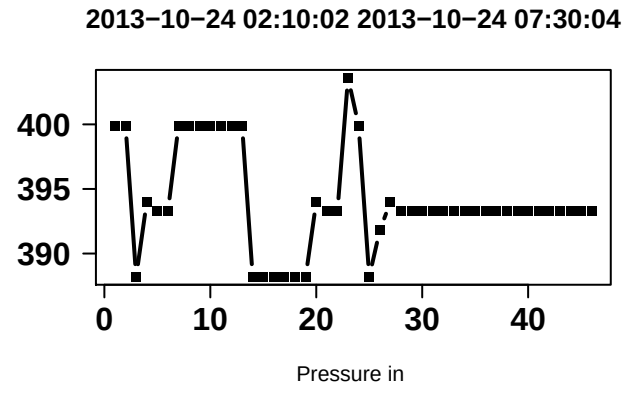

2013−10−23 17:46:57 2013−10−23 17:47:04
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

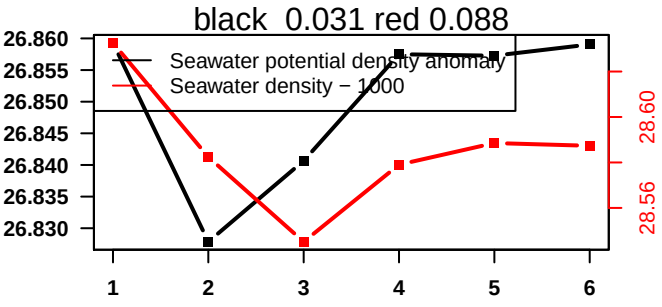

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

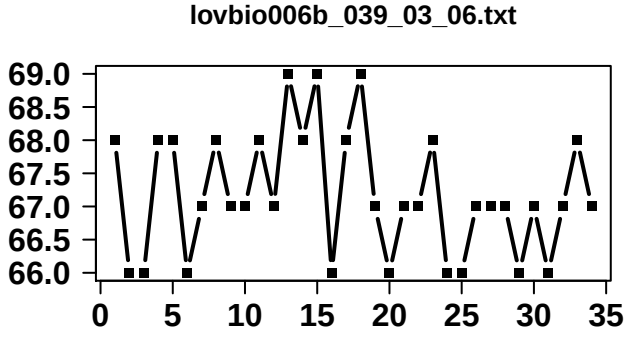

lovbio006b_039_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

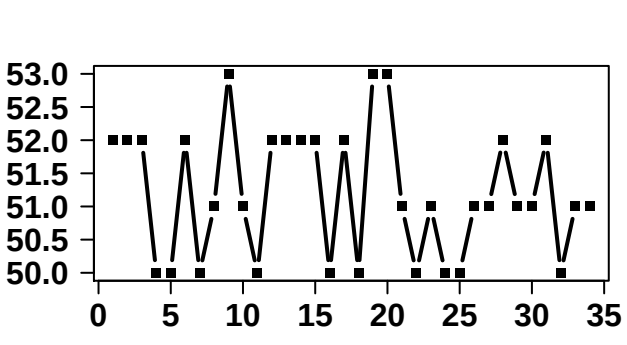

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

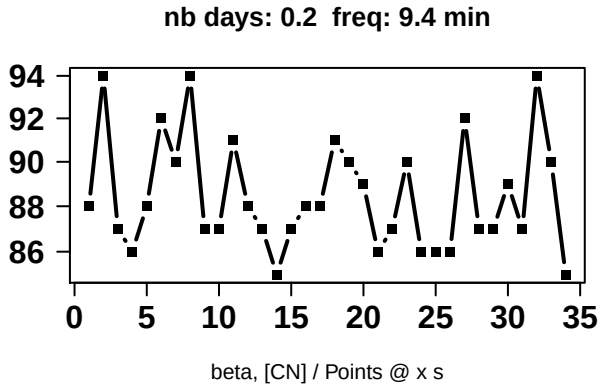

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

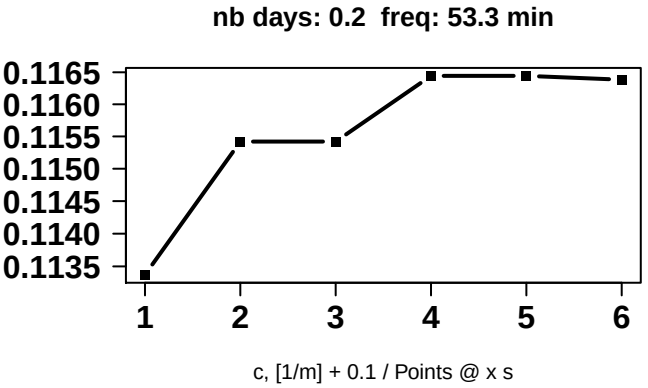

2013−10−24 02:10:02 2013−10−24 07:30:04
400
395
390
0
10
20
30
40
Pressure in

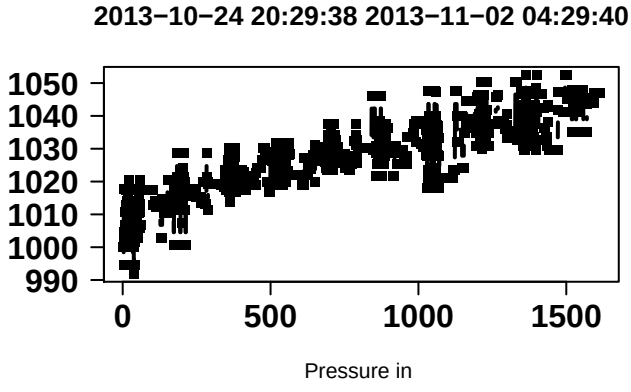

black 0.031 red 0.088
Seawater potential density anomaly
Seawater density − 1000
26.860
26.855
26.850
26.845
26.840
26.835
26.830
28.60
28.56
1
2
3
4
5
6

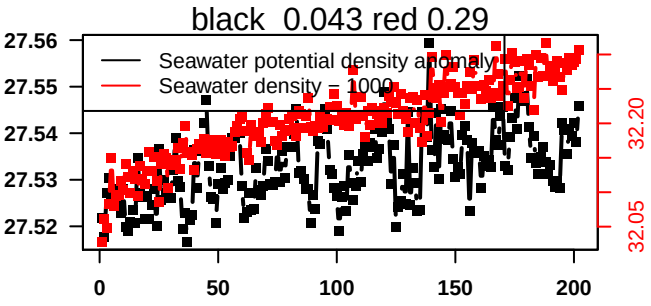

lovbio006b_039_03_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
0
5
10
15
20
25
30
35
CDOM, [CN] / Points @ x s

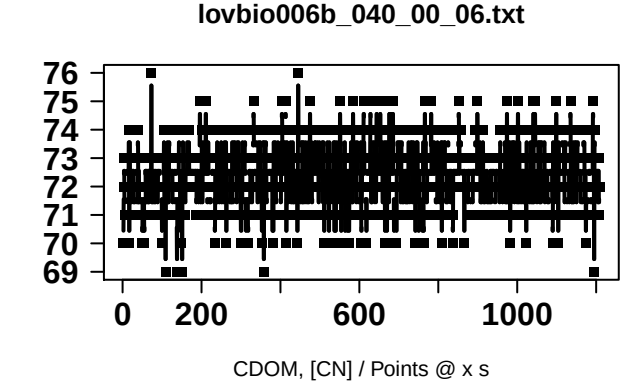

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
5
10
15
20
25
30
35
chl, [CN] / Points @ x s

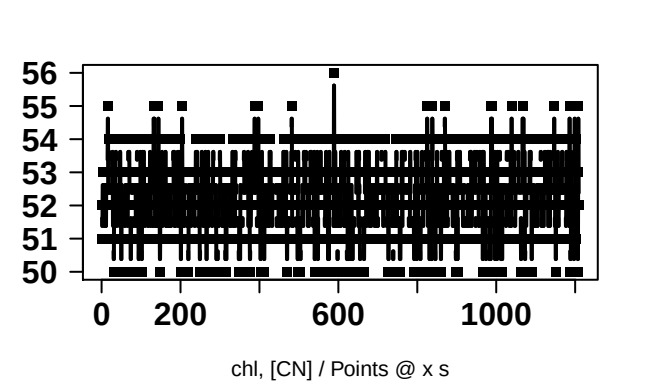

nb days: 0.2 freq: 9.4 min
94
92
90
88
86
0
5
10
15
20
25
30
35
beta, [CN] / Points @ x s

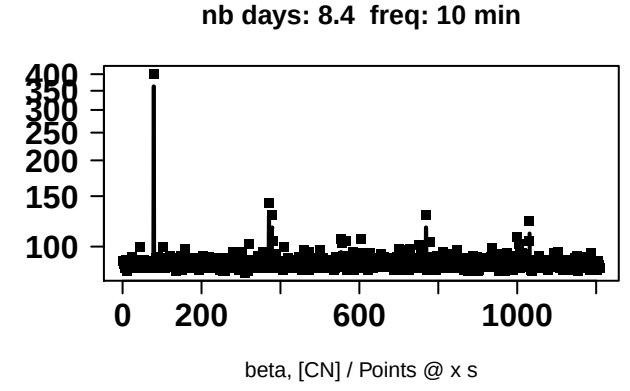

nb days: 0.2 freq: 53.3 min
0.1165
0.1160
0.1155
0.1150
0.1145
0.1140
0.1135
1
2
3
4
5
6
c, [1/m] + 0.1 / Points @ x s

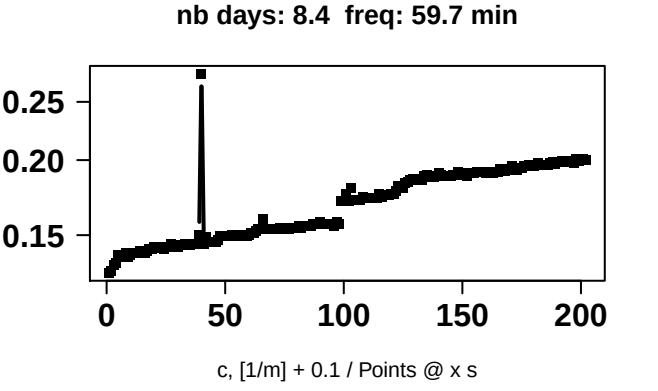

2013−10−24 20:29:38 2013−11−02 04:29:40
1050
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

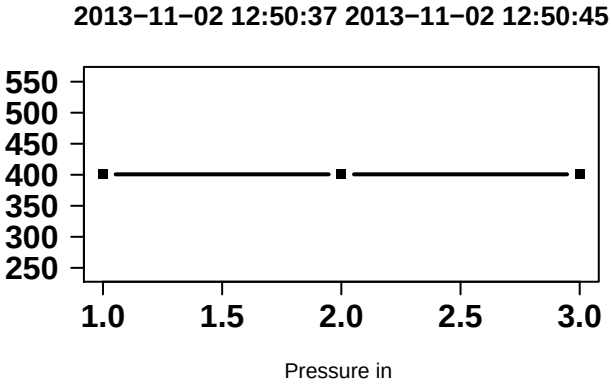

black 0.043 red 0.29
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
32.20
32.05
0
50
100
150
200

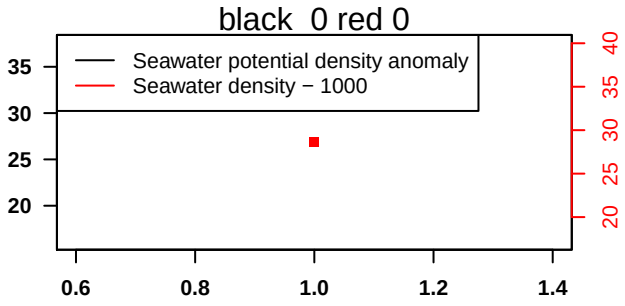

lovbio006b_040_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

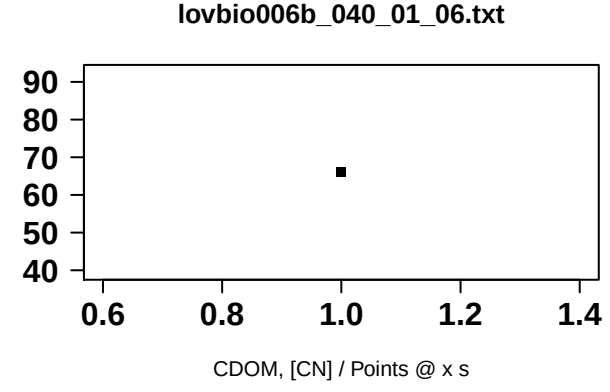

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

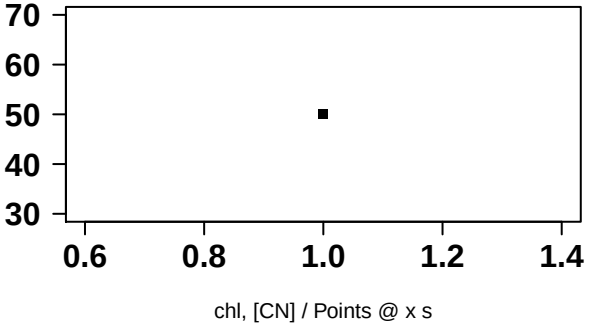

nb days: 8.4 freq: 10 min
400
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

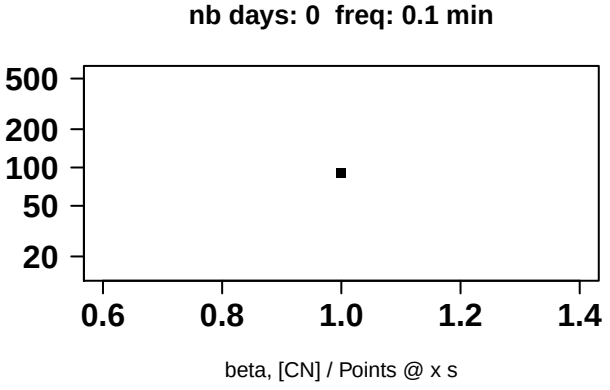

nb days: 8.4 freq: 59.7 min
0.25
0.20
0.15
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

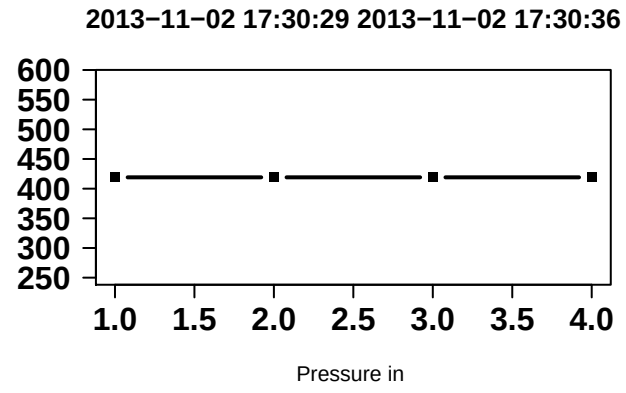

2013−11−02 12:50:37 2013−11−02 12:50:45
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

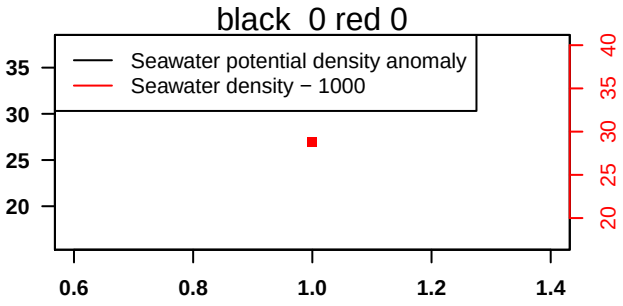

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

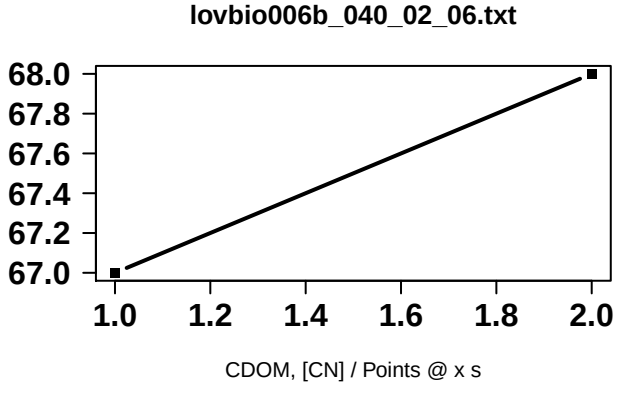

lovbio006b_040_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

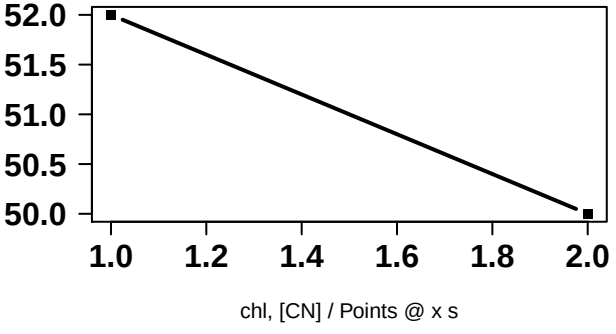

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

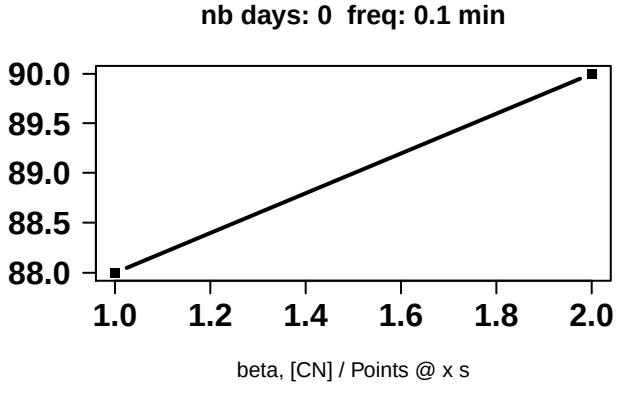

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

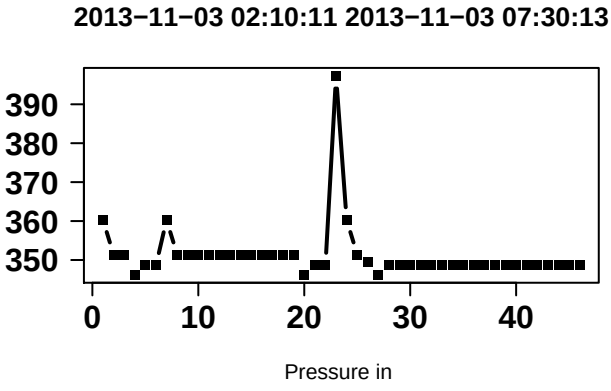

2013−11−02 17:30:29 2013−11−02 17:30:36
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

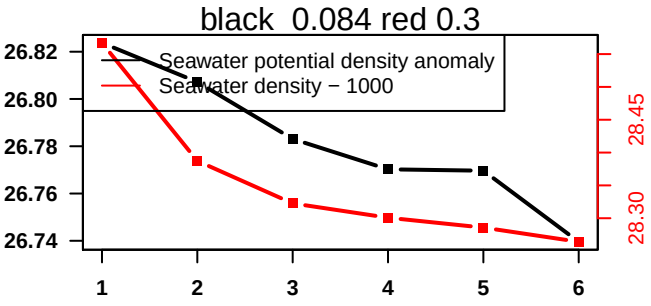

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

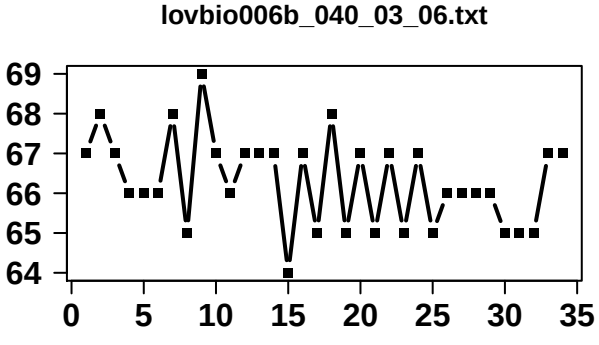

lovbio006b_040_02_06.txt
68.0
67.8
67.6
67.4
67.2
67.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

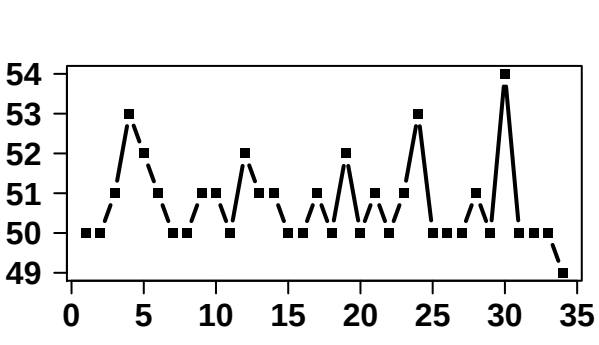

52.0
51.5
51.0
50.5
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

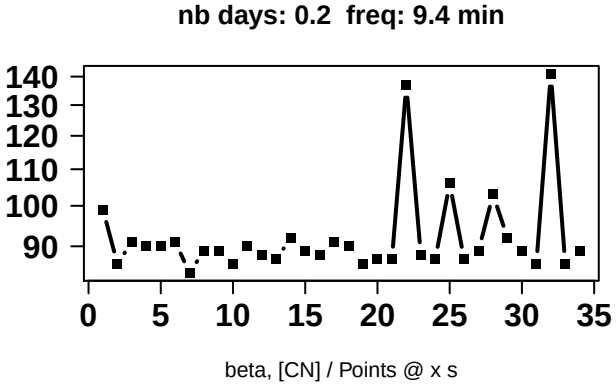

nb days: 0 freq: 0.1 min
90.0
89.5
89.0
88.5
88.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

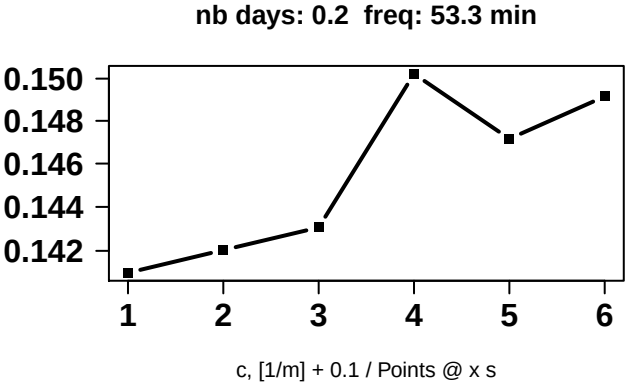

2013−11−03 02:10:11 2013−11−03 07:30:13
390
380
370
360
350
0
10
20
30
40
Pressure in

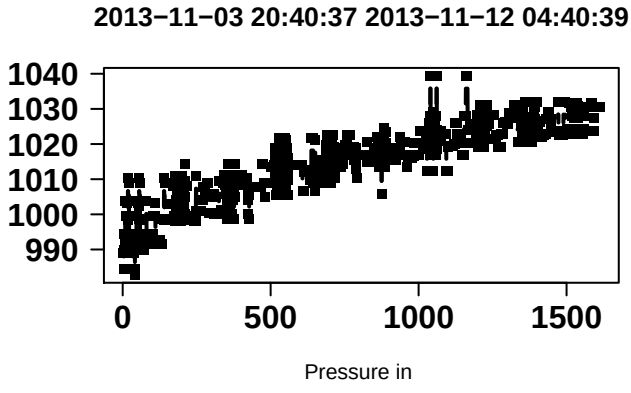

black 0.084 red 0.3
Seawater potential density anomaly
Seawater density − 1000
26.82
26.80
26.78
26.76
26.74
28.45
28.30
1
2
3
4
5
6

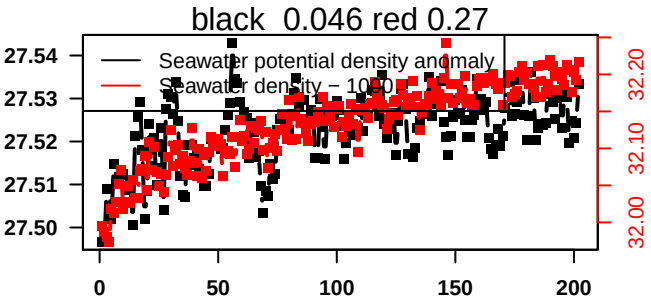

lovbio006b_040_03_06.txt
69
68
67
66
65
64
0
5
10
15
20
25
30
35
CDOM, [CN] / Points @ x s

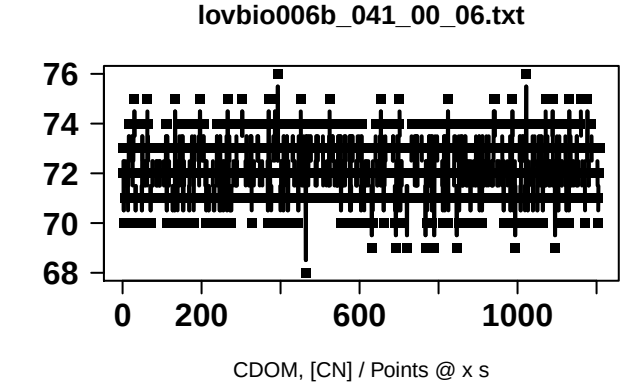

54
53
52
51
50
49
0
5
10
15
20
25
30
35
chl, [CN] / Points @ x s

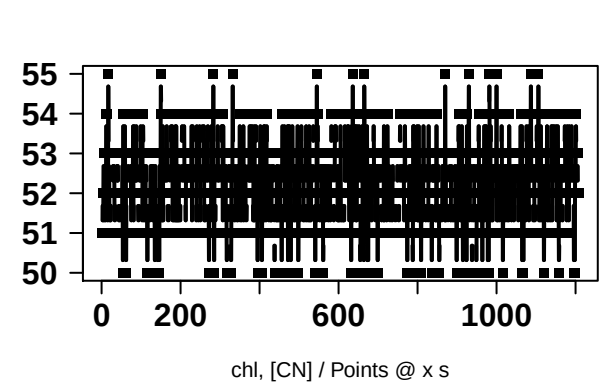

nb days: 0.2 freq: 9.4 min
140
130
120
110
100
90
0
5
10
15
20
25
30
35
beta, [CN] / Points @ x s

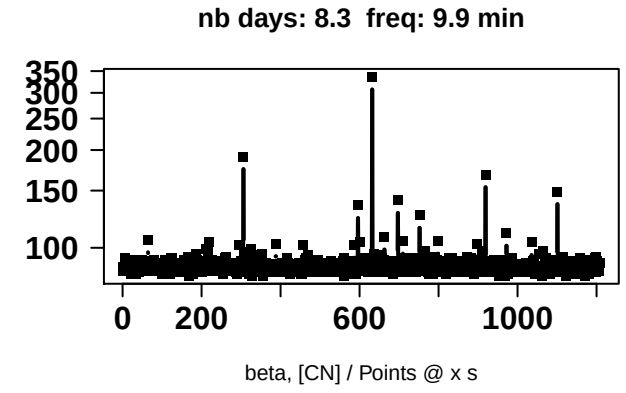

nb days: 0.2 freq: 53.3 min
0.150
0.148
0.146
0.144
0.142
1
2
3
4
5
6
c, [1/m] + 0.1 / Points @ x s

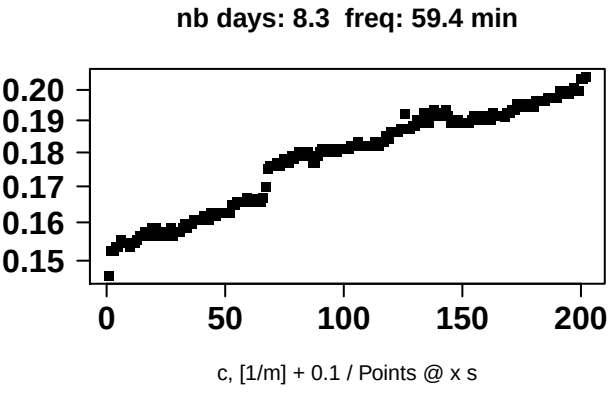

2013−11−03 20:40:37 2013−11−12 04:40:39
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

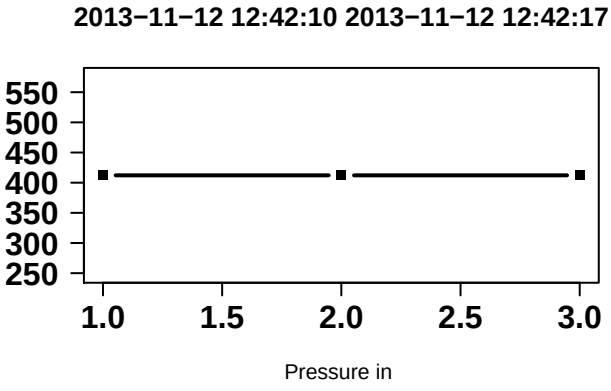

black 0.046 red 0.27
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.20
32.10
32.00
0
50
100
150
200

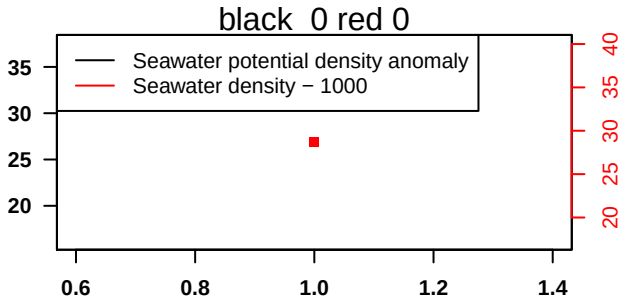

lovbio006b_041_00_06.txt
76
74
72
70
68
0
200
600
1000
CDOM, [CN] / Points @ x s

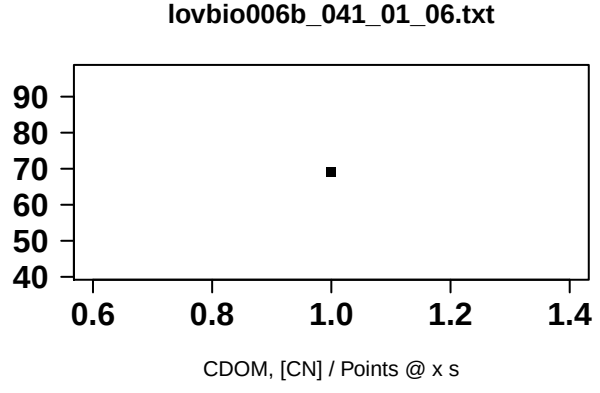

55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

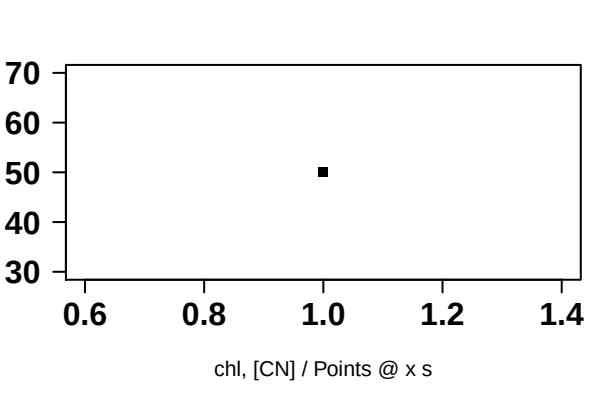

nb days: 8.3 freq: 9.9 min
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

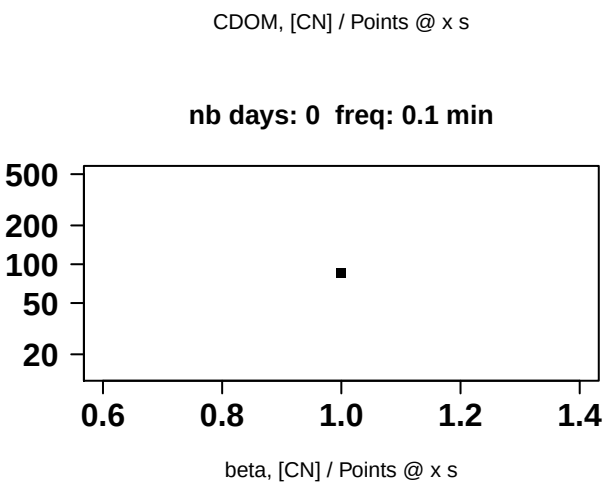

nb days: 8.3 freq: 59.4 min
0.20
0.19
0.18
0.17
0.16
0.15
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

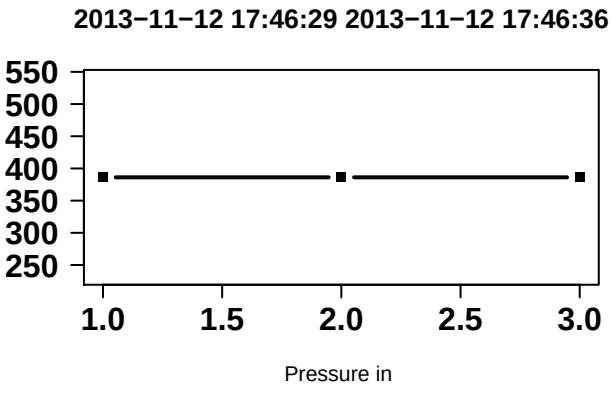

2013−11−12 12:42:10 2013−11−12 12:42:17
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

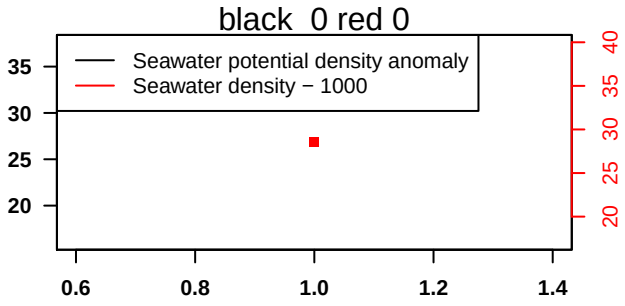

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

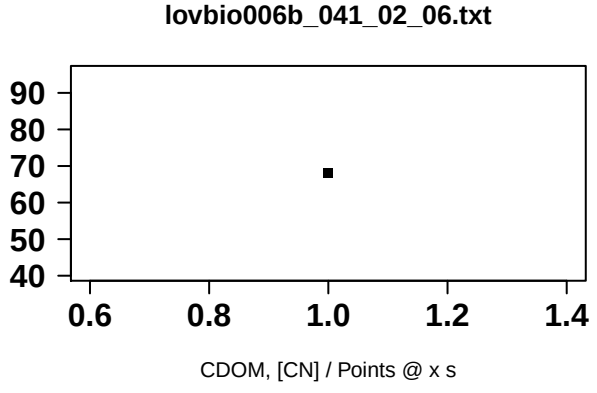

lovbio006b_041_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

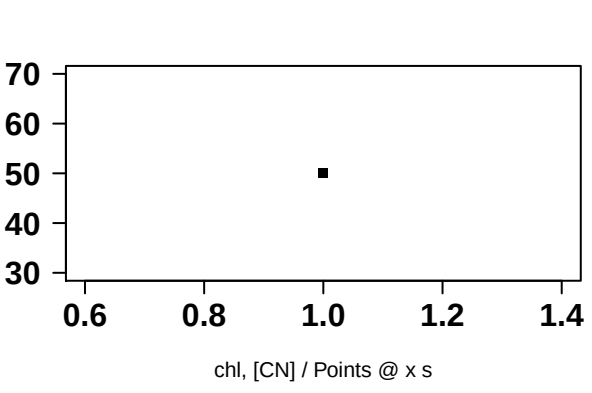

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

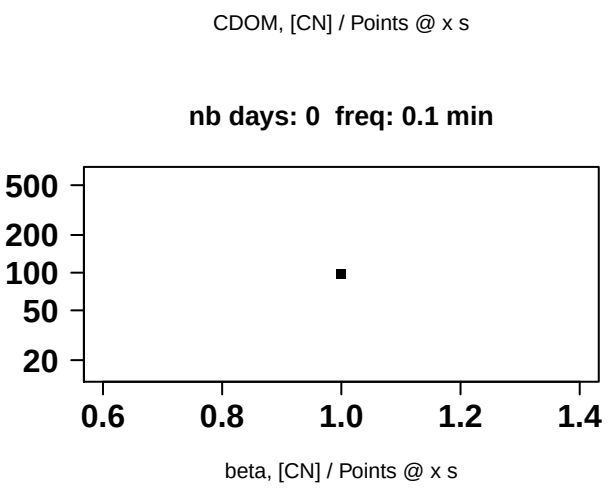

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

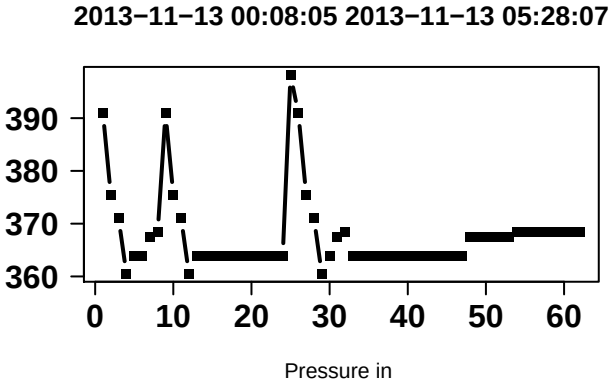

2013−11−12 17:46:29 2013−11−12 17:46:36
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

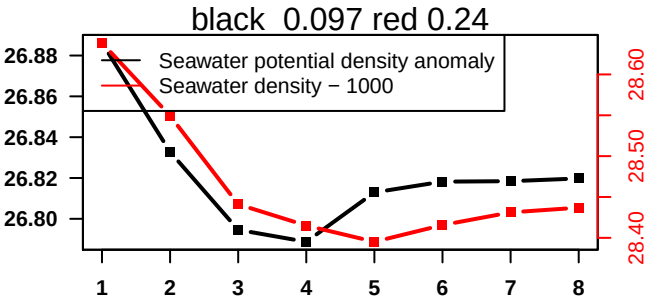

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

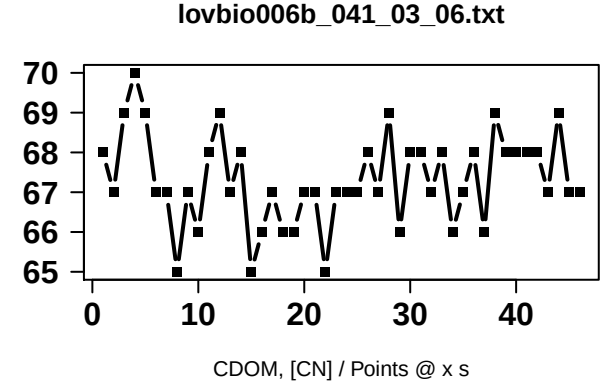

lovbio006b_041_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

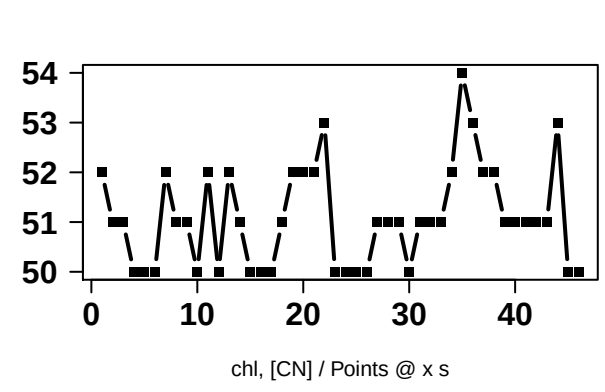

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

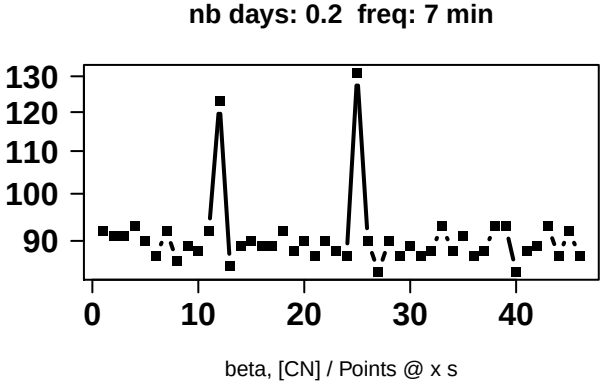

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

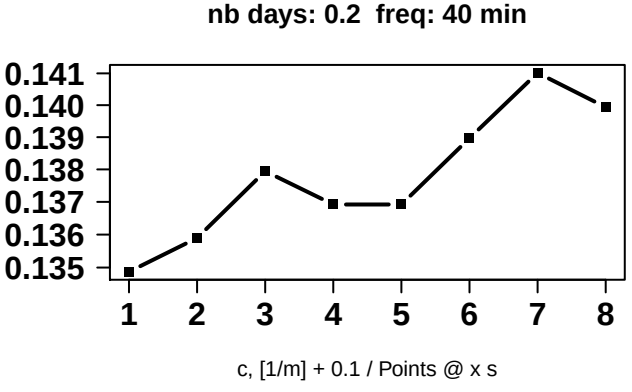

2013−11−13 00:08:05 2013−11−13 05:28:07
390
380
370
360
0
10
20
30
40
50
60
Pressure in

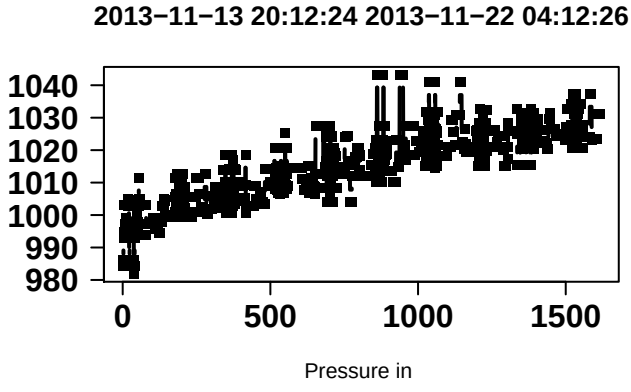

black 0.097 red 0.24
Seawater potential density anomaly
Seawater density − 1000
26.88
26.86
26.84
26.82
26.80
28.60
28.50
28.40
1
2
3
4
5
6
7
8

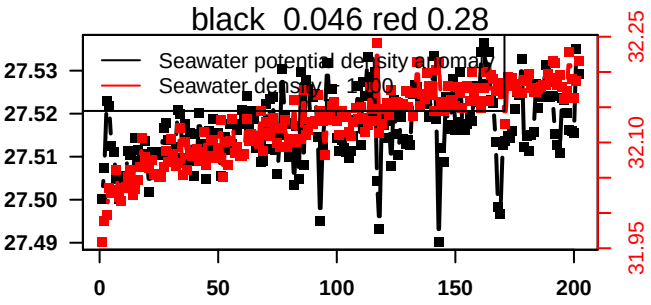

lovbio006b_041_03_06.txt
70
69
68
67
66
65
0
10
20
30
40
CDOM, [CN] / Points @ x s

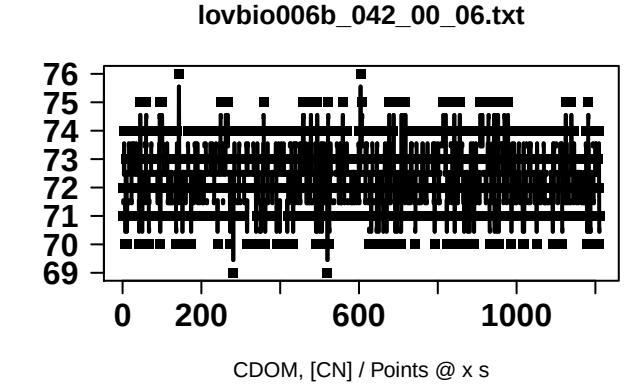

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

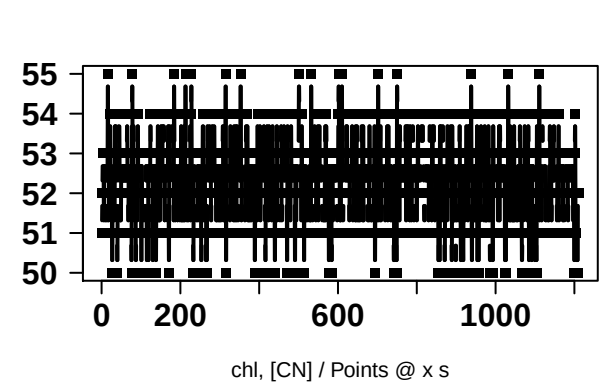

nb days: 0.2 freq: 7 min
130
120
110
100
90
0
10
20
30
40
beta, [CN] / Points @ x s

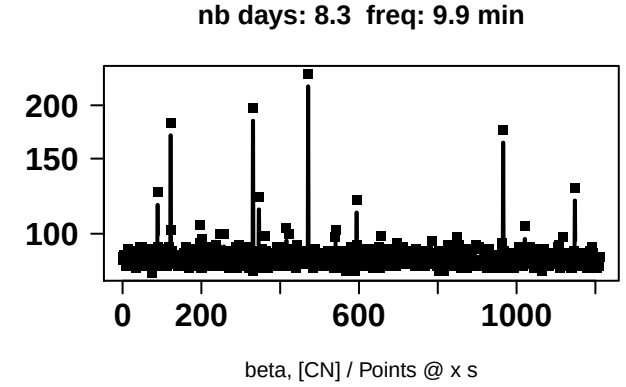

nb days: 0.2 freq: 40 min
0.141
0.140
0.139
0.138
0.137
0.136
0.135
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

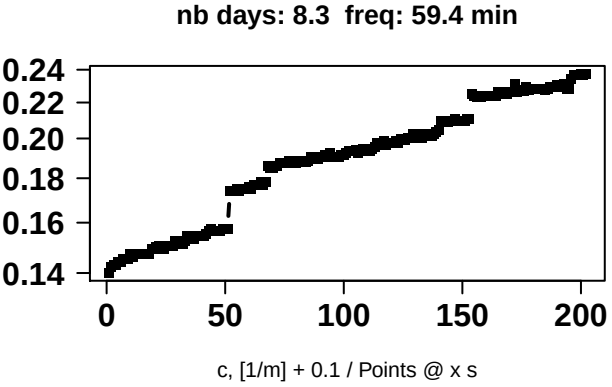

2013−11−13 20:12:24 2013−11−22 04:12:26
1040
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

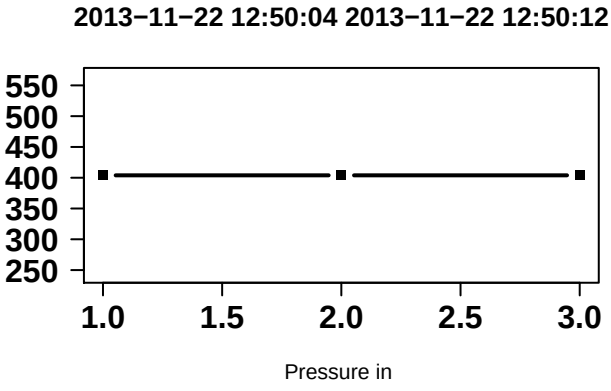

black 0.046 red 0.28
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
32.25
32.10
31.95
0
50
100
150
200

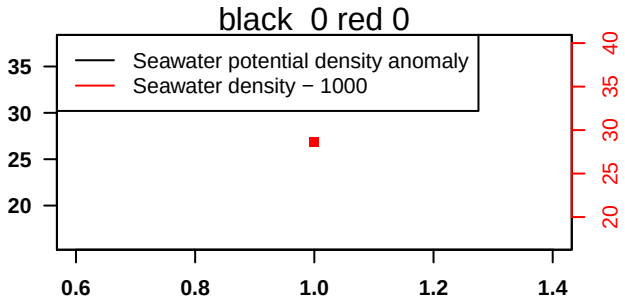

lovbio006b_042_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

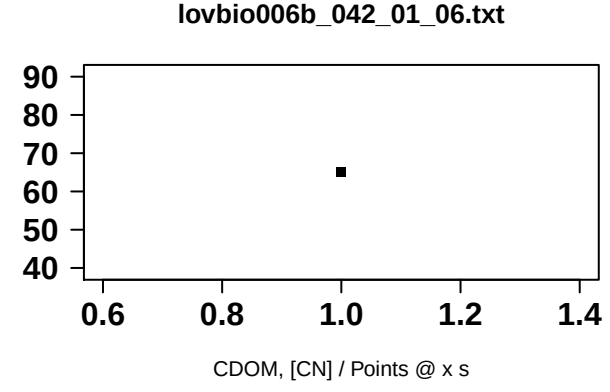

55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

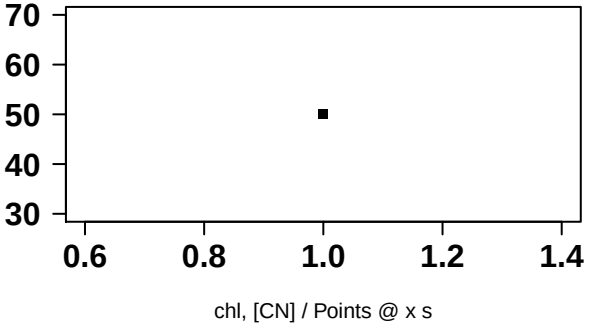

nb days: 8.3 freq: 9.9 min
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

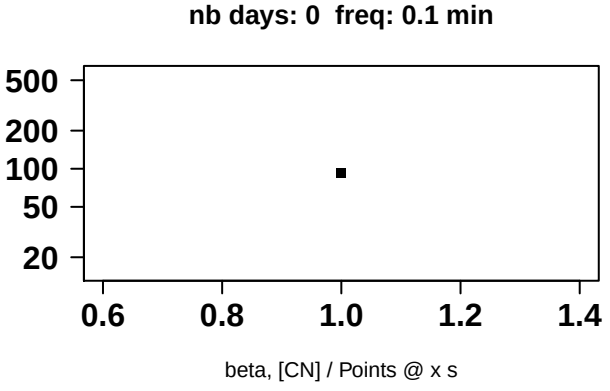

nb days: 8.3 freq: 59.4 min
0.24
0.22
0.20
0.18
0.16
0.14
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

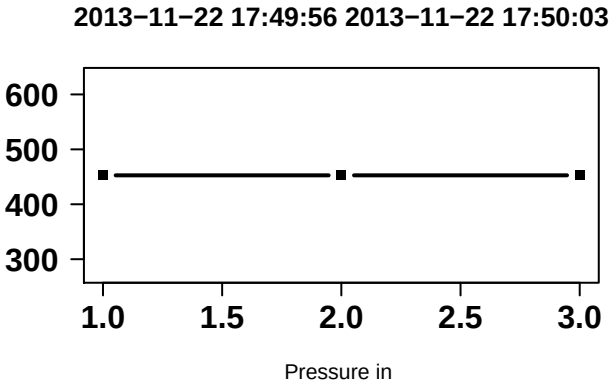

2013−11−22 12:50:04 2013−11−22 12:50:12
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

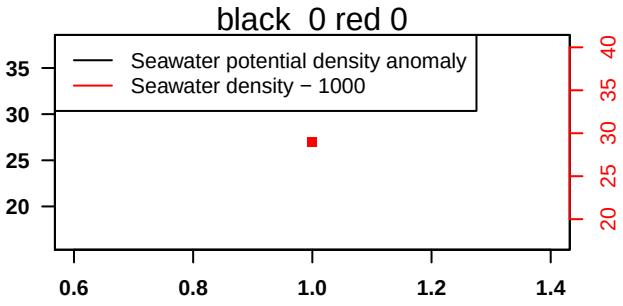

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

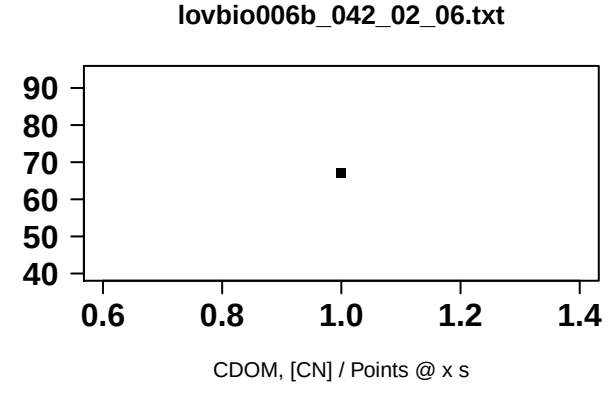

lovbio006b_042_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

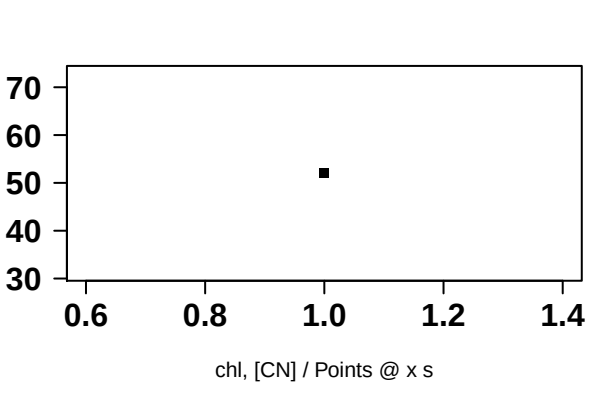

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

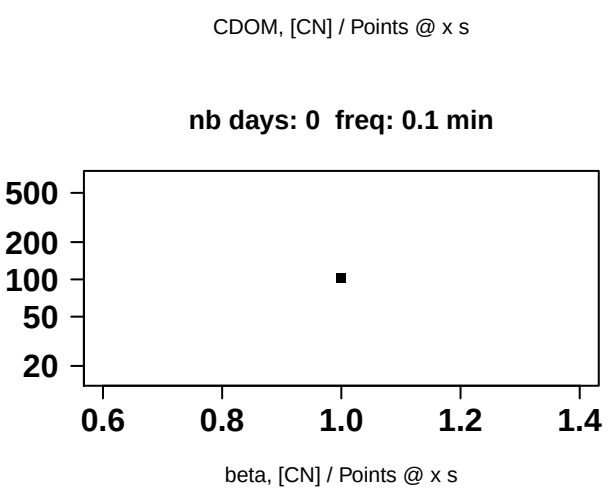

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

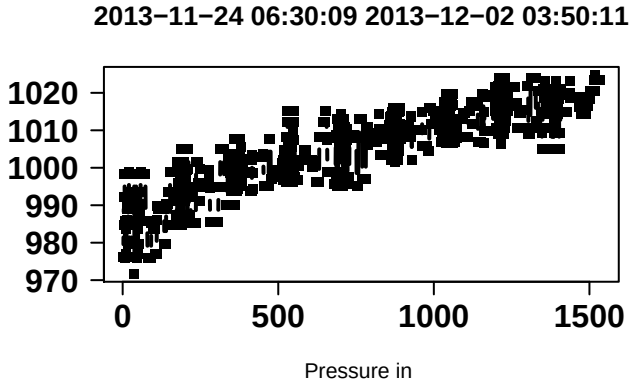

2013−11−22 17:49:56 2013−11−22 17:50:03
600
500
400
300
1.0
1.5
2.0
2.5
3.0
Pressure in

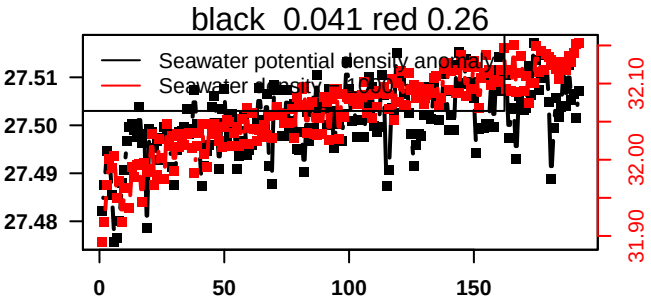

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

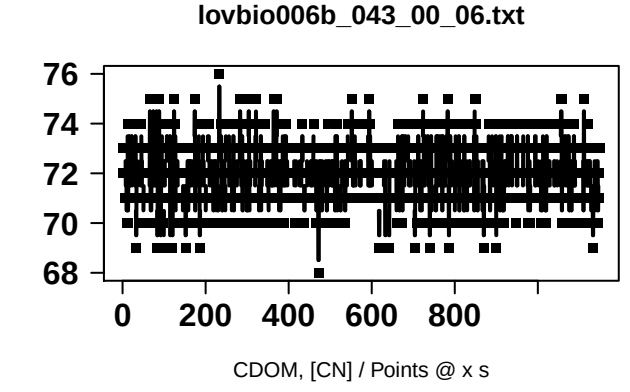

lovbio006b_042_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

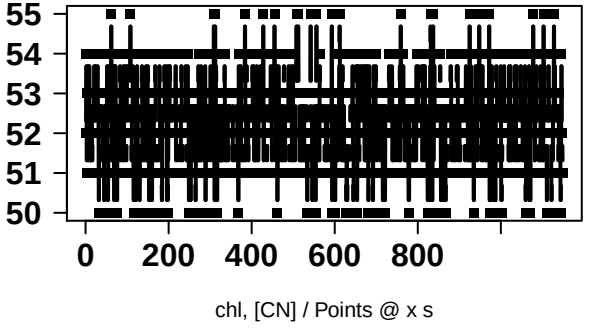

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

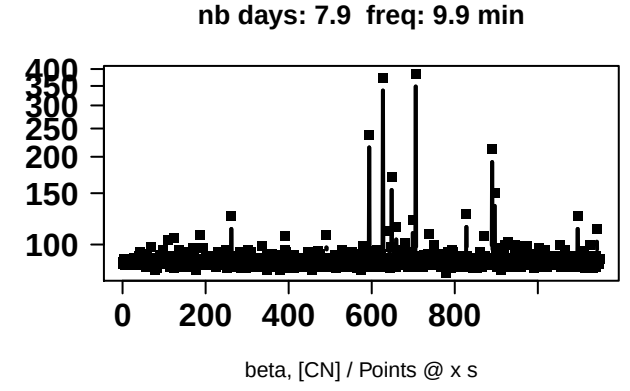

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

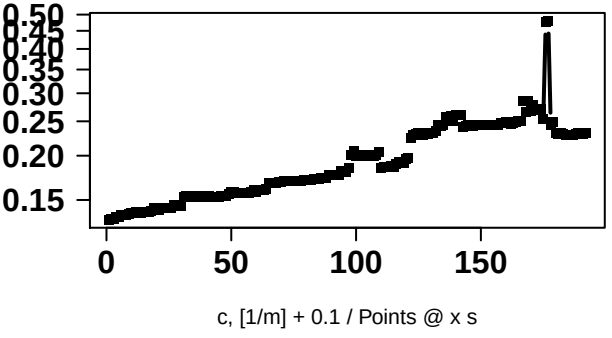

2013−11−24 06:30:09 2013−12−02 03:50:11
1020
1010
1000
990
980
970
0
500
1000
1500
Pressure in

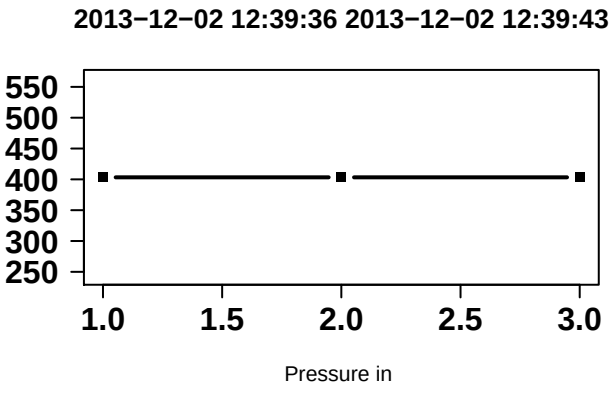

black 0.041 red 0.26
Seawater potential density anomaly
27.51
27.50
27.49
27.48
32.10
32.00
31.90
0
50
100
150

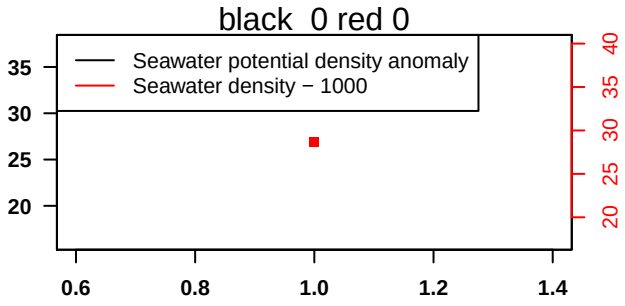

lovbio006b_043_00_06.txt
76
74
72
70
68
0
200
400
600
800
CDOM, [CN] / Points @ x s

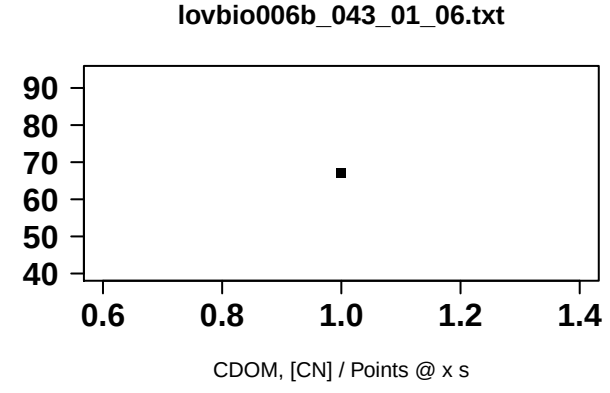

55
54
53
52
51
50
0
200
400
600
800
chl, [CN] / Points @ x s

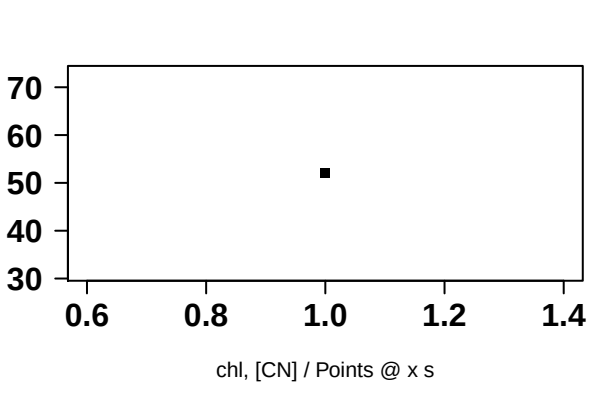

nb days: 7.9 freq: 9.9 min
400
350
300
250
200
150
100
0
200
400
600
800
beta, [CN] / Points @ x s

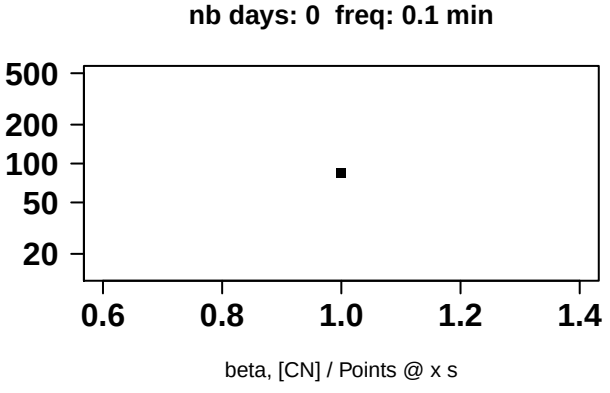

nb days: 7.9 freq: 59.2 min
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0
50
100
150
c, [1/m] + 0.1 / Points @ x s

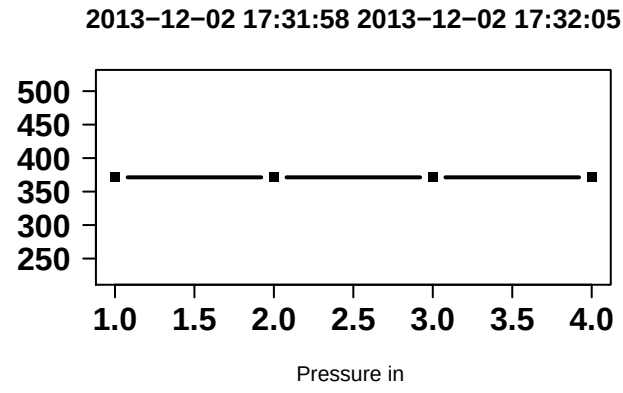

2013−12−02 12:39:36 2013−12−02 12:39:43
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

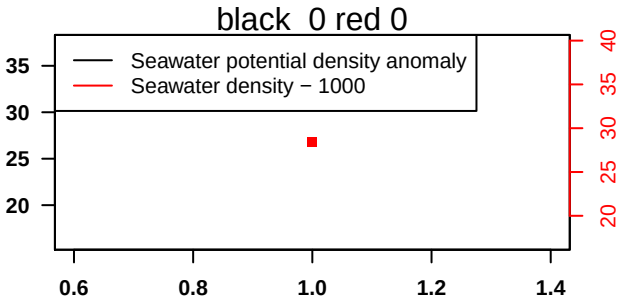

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

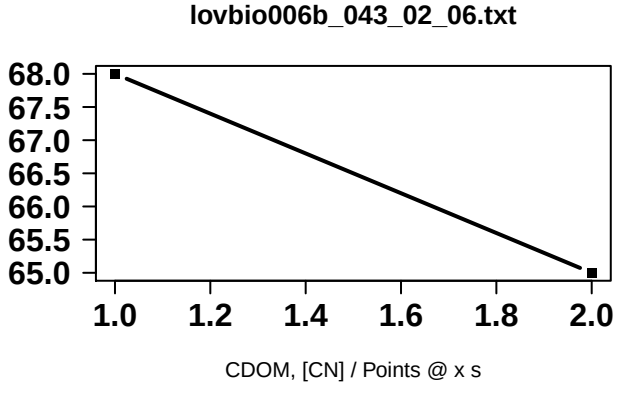

lovbio006b_043_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

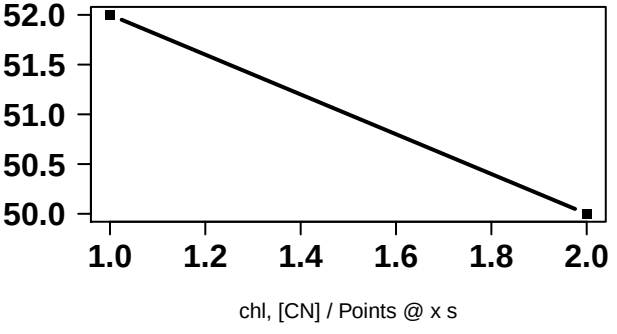

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

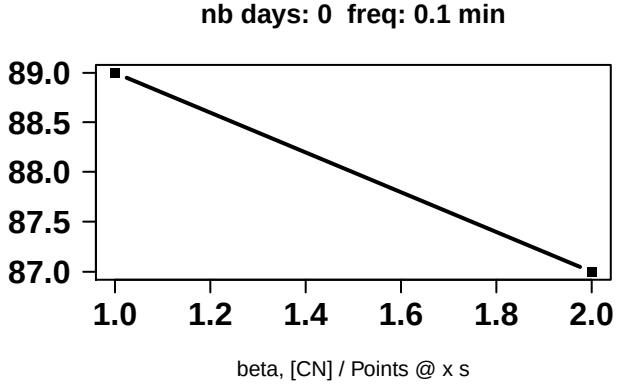

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

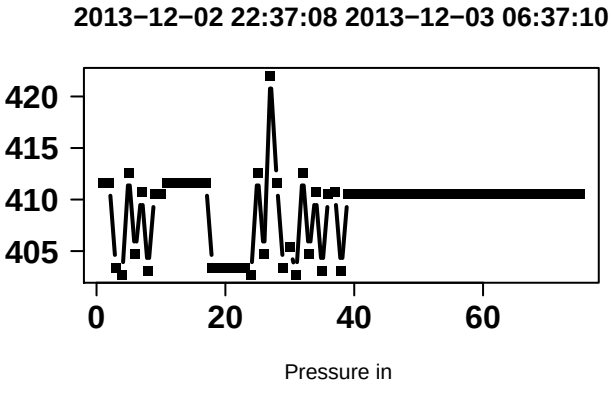

2013−12−02 17:31:58 2013−12−02 17:32:05
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

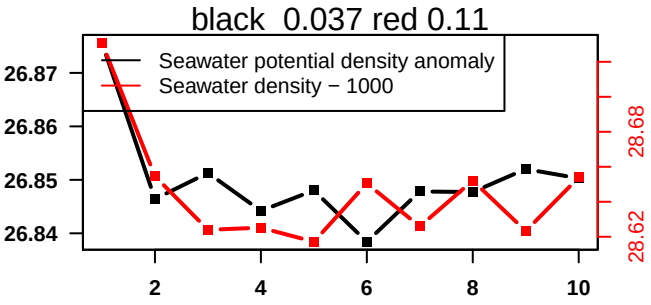

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

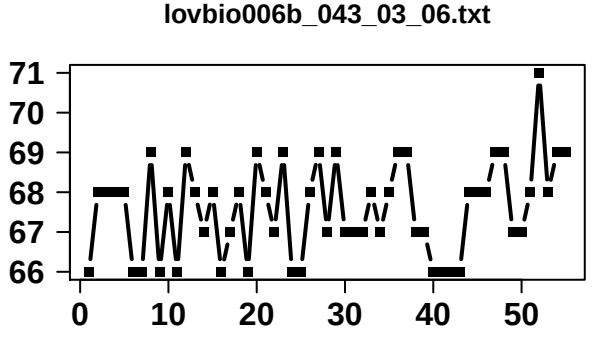

lovbio006b_043_02_06.txt
68.0
67.5
67.0
66.5
66.0
65.5
65.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

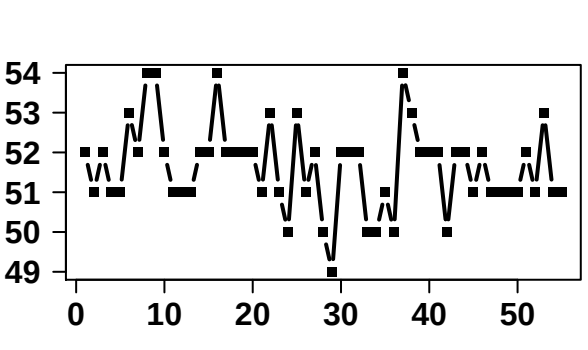

52.0
51.5
51.0
50.5
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

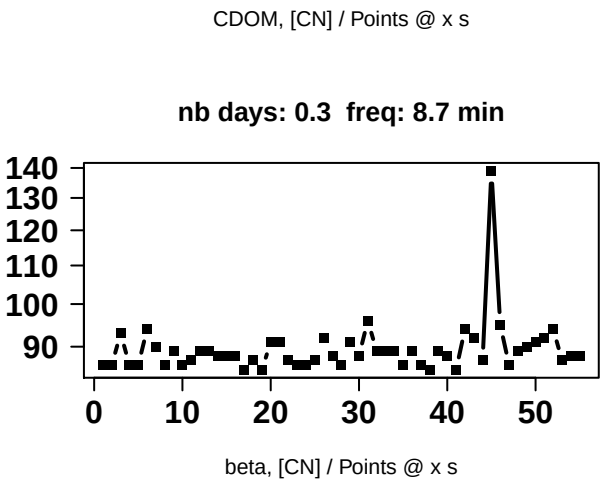

nb days: 0 freq: 0.1 min
89.0
88.5
88.0
87.5
87.0
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

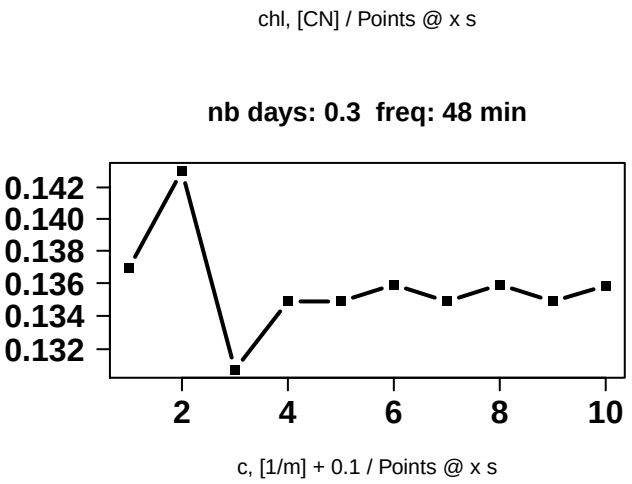

2013−12−02 22:37:08 2013−12−03 06:37:10
420
415
410
405
0
20
40
60
Pressure in

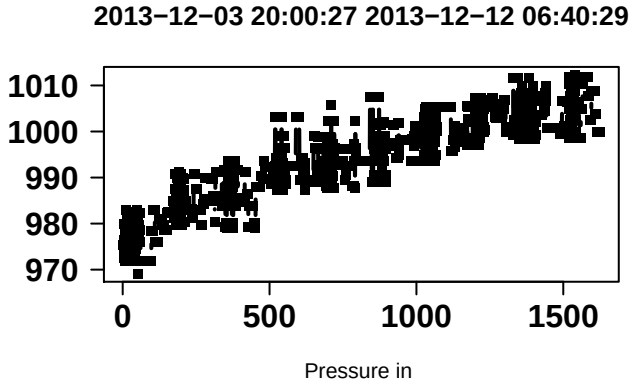

black 0.037 red 0.11
Seawater potential density anomaly
Seawater density − 1000
26.87
26.86
26.85
26.84
28.68
28.62
2
4
6
8
10

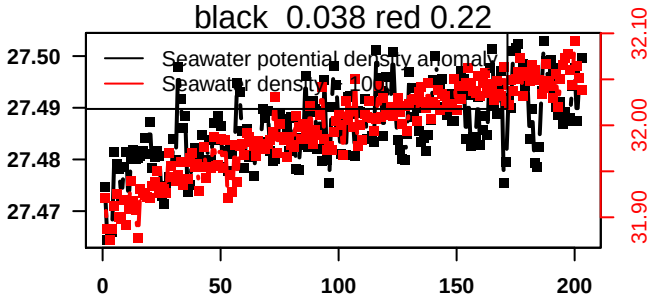

lovbio006b_043_03_06.txt
71
70
69
68
67
66
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

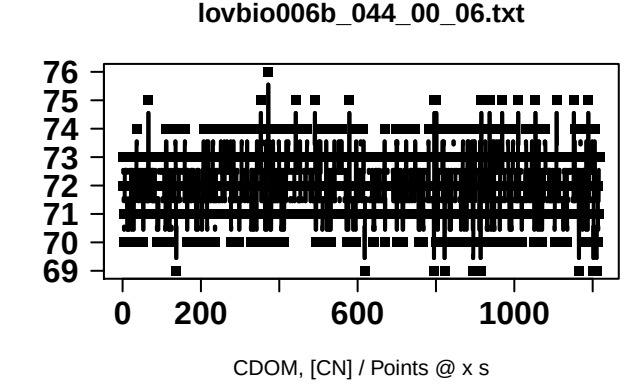

54
53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

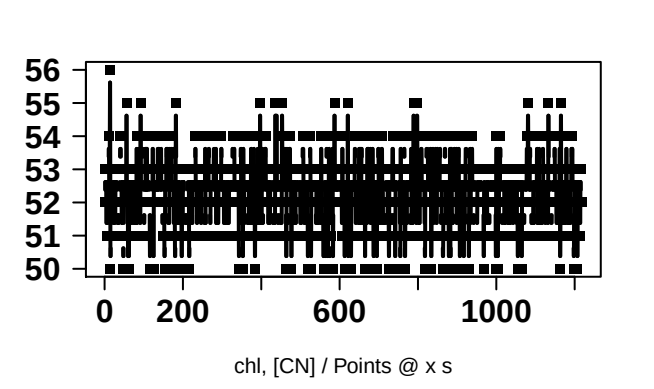

nb days: 0.3 freq: 8.7 min
140
130
120
110
100
90
0
10
20
30
40
50
beta, [CN] / Points @ x s

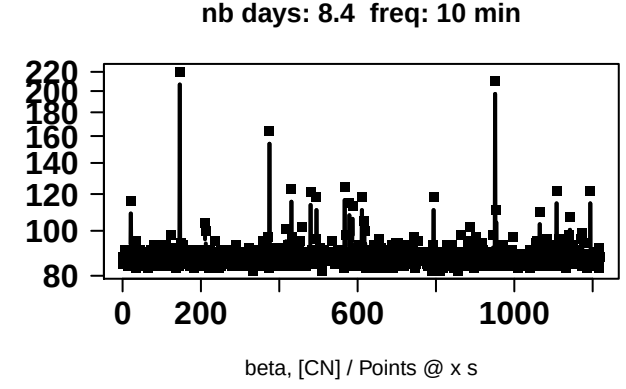

nb days: 0.3 freq: 48 min
0.142
0.140
0.138
0.136
0.134
0.132
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

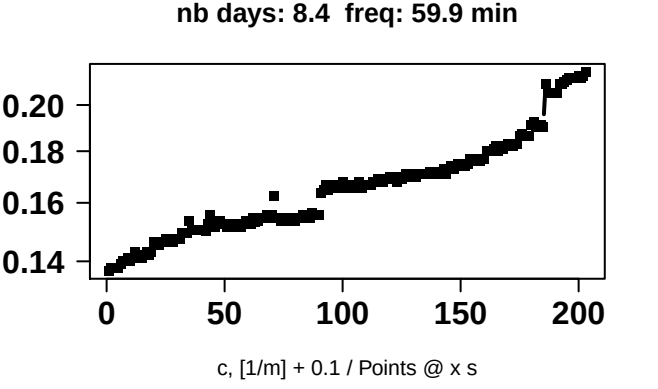

2013−12−03 20:00:27 2013−12−12 06:40:29
1010
1000
990
980
970
0
500
1000
1500
Pressure in

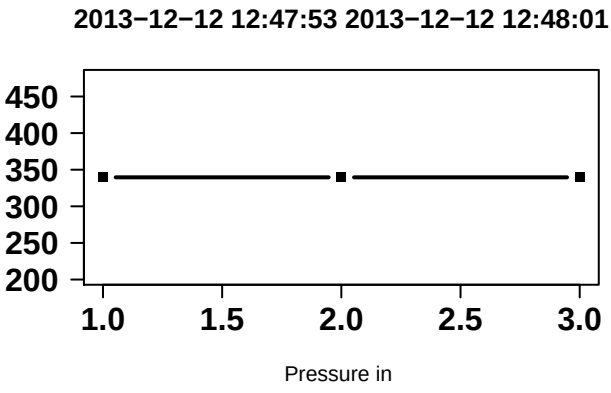

black 0.038 red 0.22
Seawater potential density anomaly
Seawater density − 1000
27.50
27.49
27.48
27.47
32.10
32.00
31.90
0
50
100
150
200

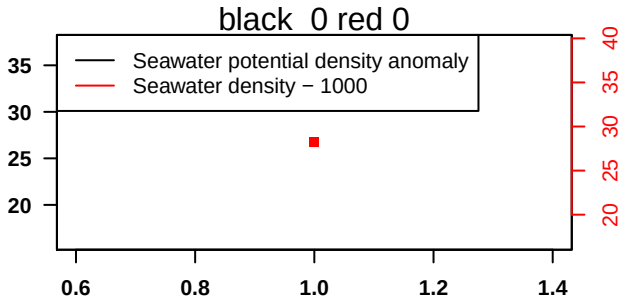

lovbio006b_044_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

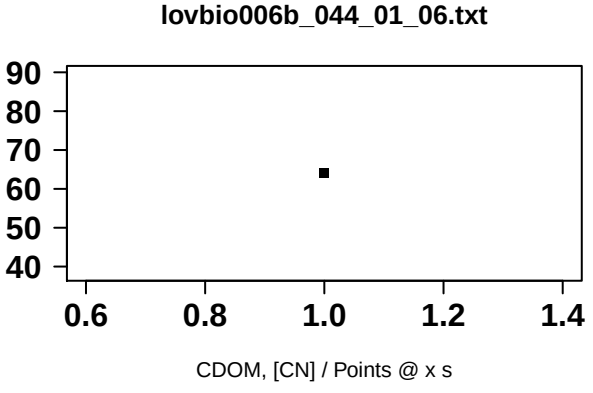

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

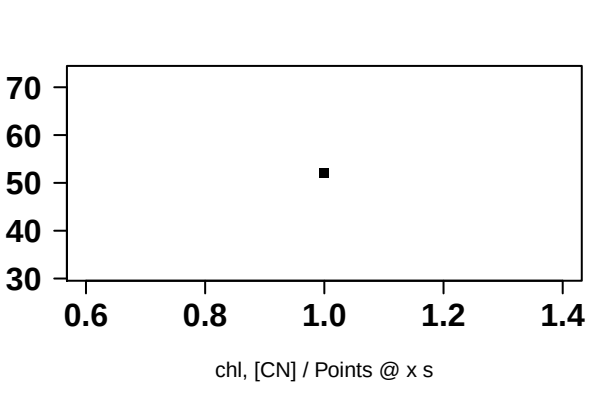

nb days: 8.4 freq: 10 min
220
200
180
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

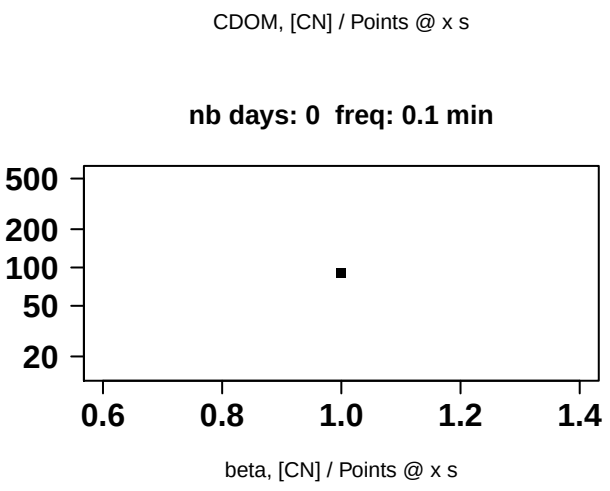

nb days: 8.4 freq: 59.9 min
0.20
0.18
0.16
0.14
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

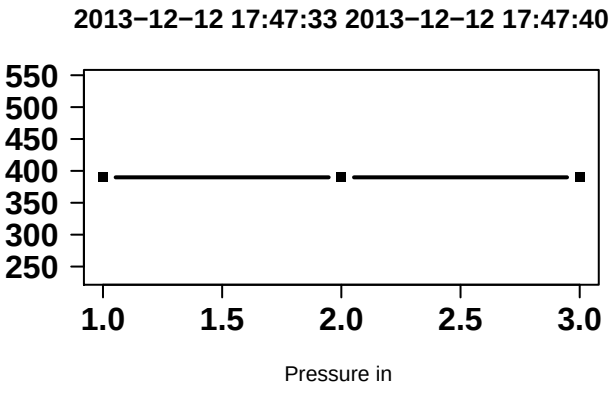

2013−12−12 12:47:53 2013−12−12 12:48:01
450
400
350
300
250
200
1.0
1.5
2.0
2.5
3.0
Pressure in

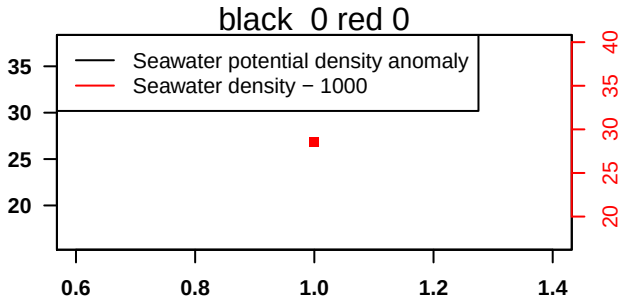

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

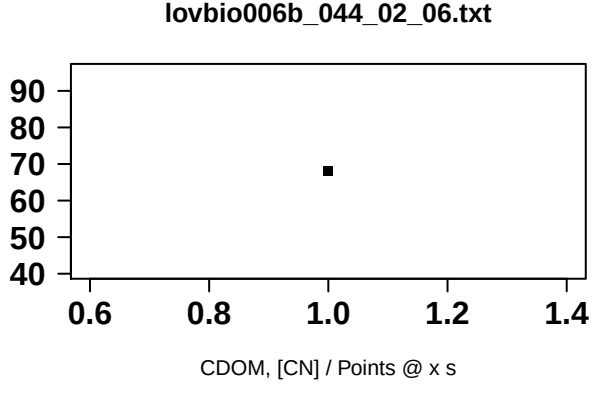

lovbio006b_044_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

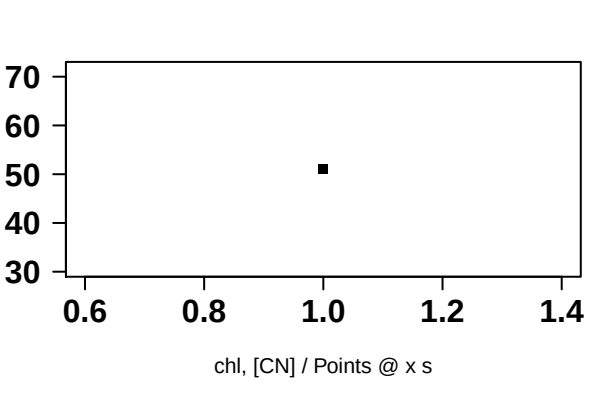

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

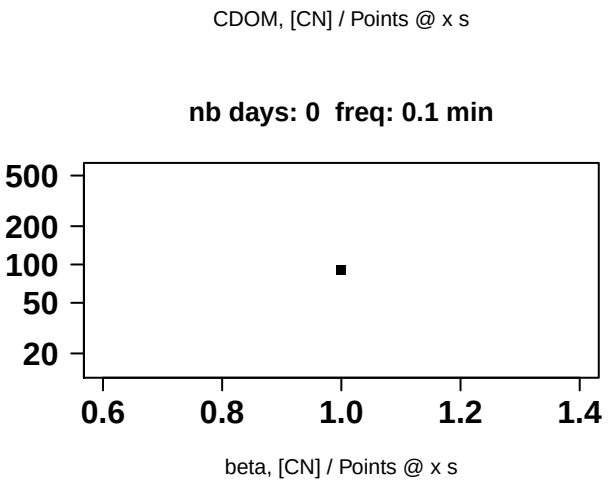

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

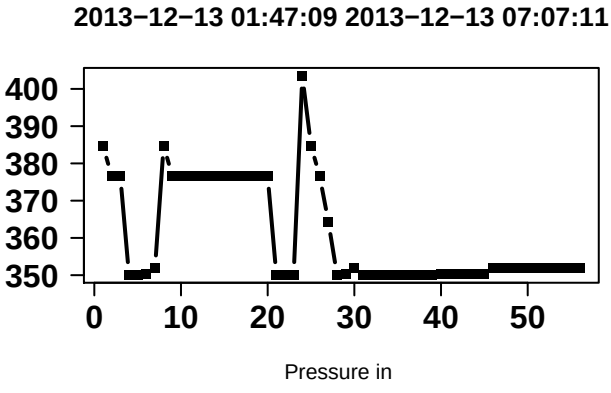

2013−12−12 17:47:33 2013−12−12 17:47:40
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

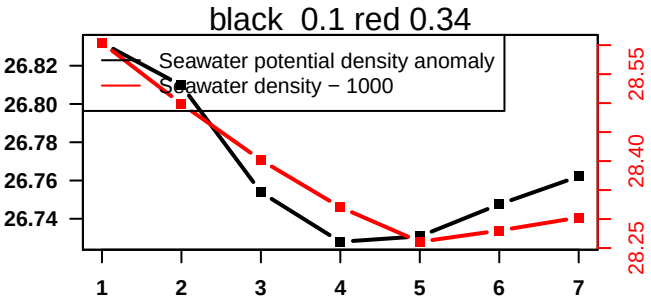

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

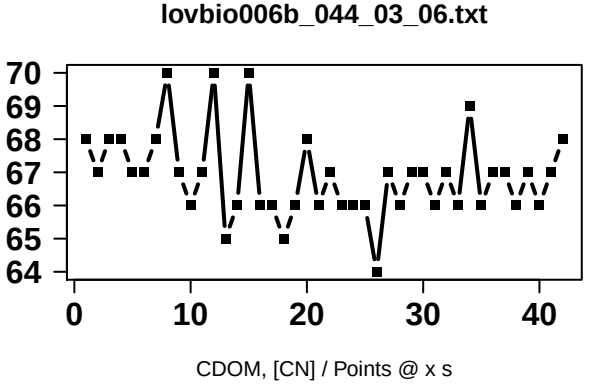

lovbio006b_044_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

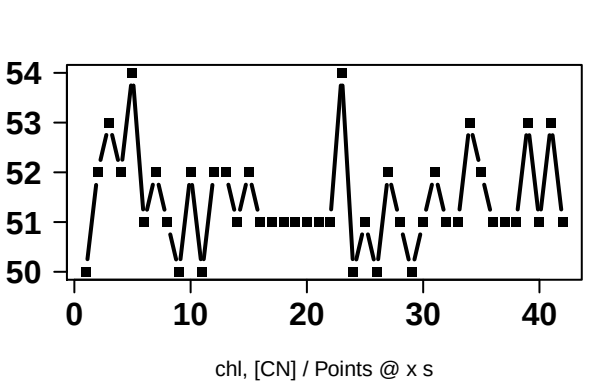

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

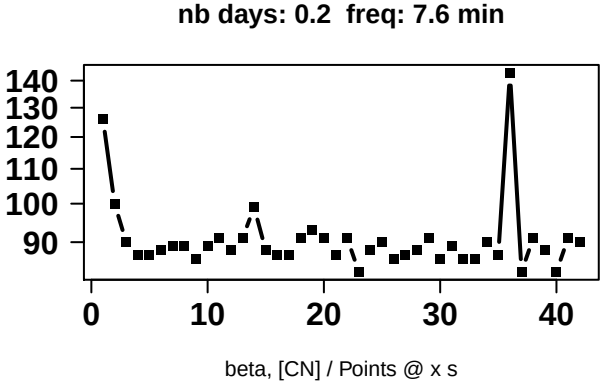

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

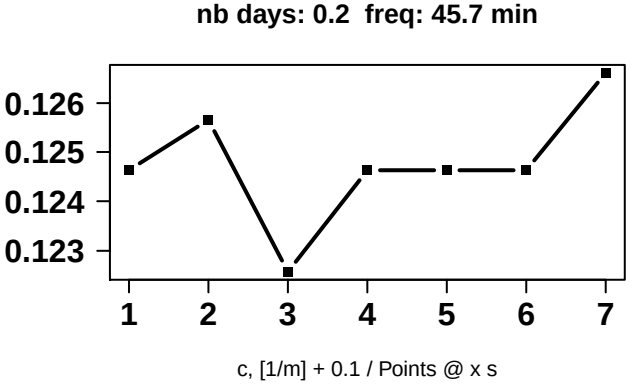

2013−12−13 01:47:09 2013−12−13 07:07:11
400
390
380
370
360
350
0
10
20
30
40
50
Pressure in

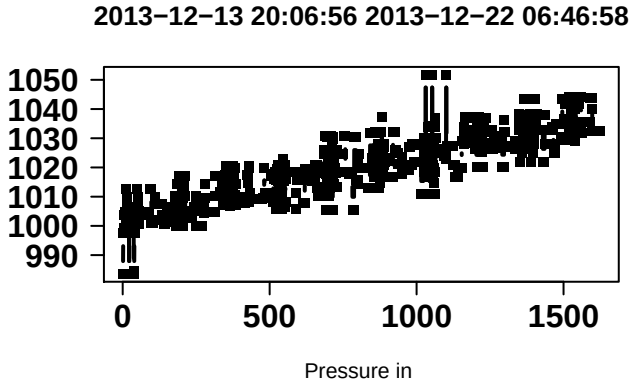

black 0.1 red 0.34
Seawater potential density anomaly
Seawater density − 1000
26.82
26.80
26.78
26.76
26.74
28.55
28.40
28.25
1
2
3
4
5
6
7

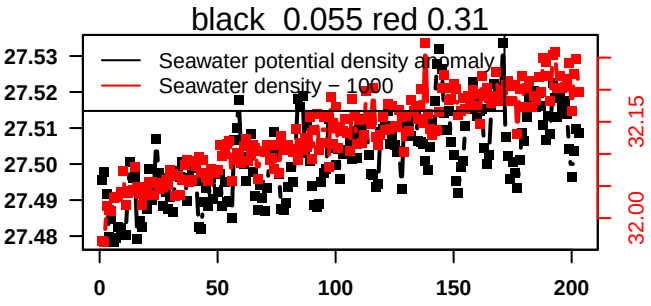

lovbio006b_044_03_06.txt
70
69
68
67
66
65
64
0
10
20
30
40
CDOM, [CN] / Points @ x s

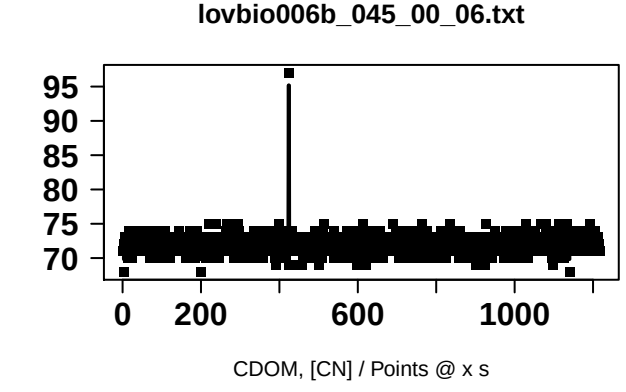

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

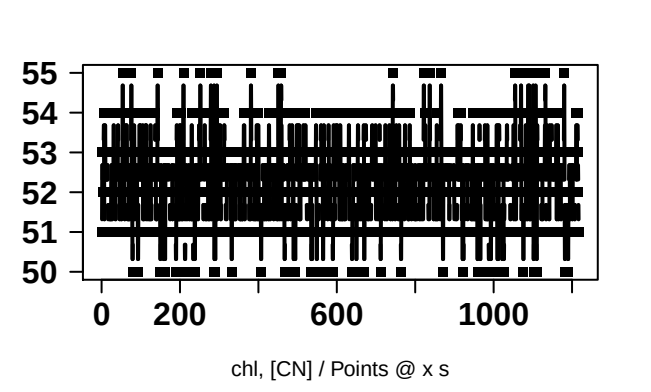

nb days: 0.2 freq: 7.6 min
140
130
120
110
100
90
0
10
20
30
40
beta, [CN] / Points @ x s

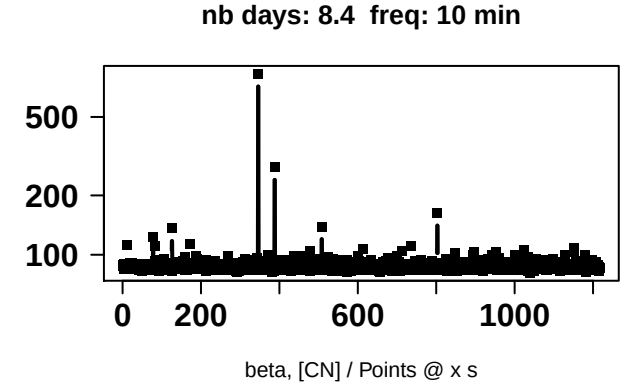

nb days: 0.2 freq: 45.7 min
0.126
0.125
0.124
0.123
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

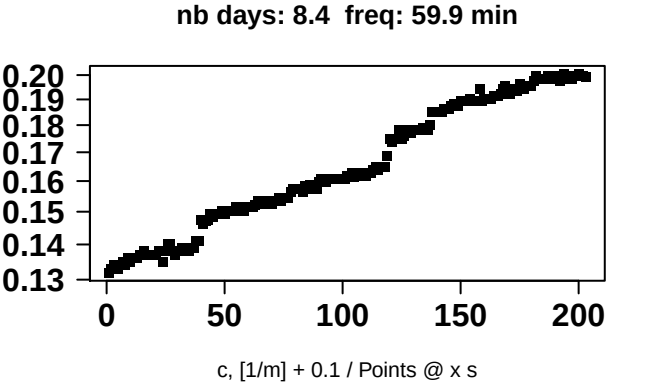

2013−12−13 20:06:56 2013−12−22 06:46:58
1050
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

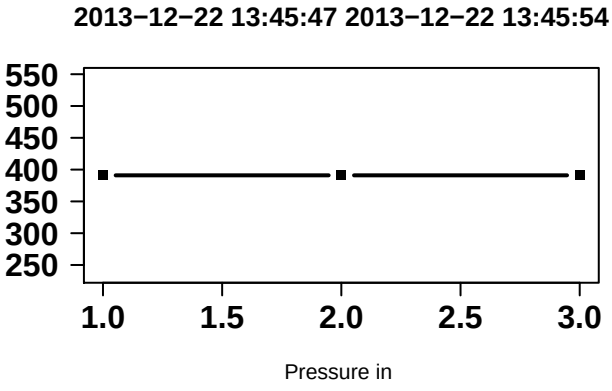

black 0.055 red 0.31
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
27.48
32.15
32.00
0
50
100
150
200

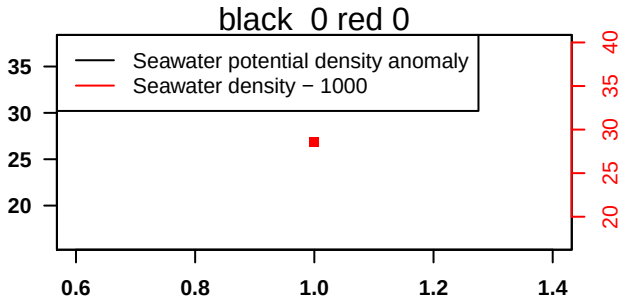

lovbio006b_045_00_06.txt
95
90
85
80
75
70
0
200
600
1000
CDOM, [CN] / Points @ x s

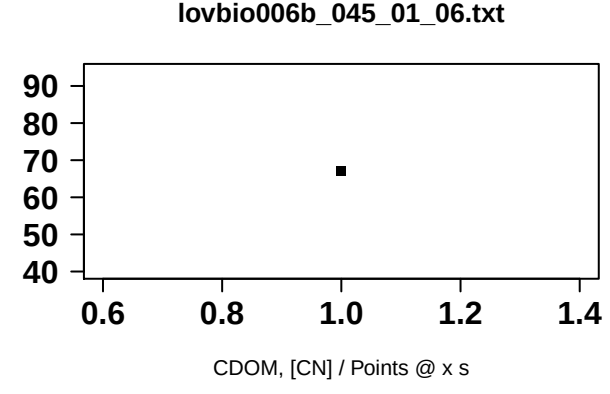

55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

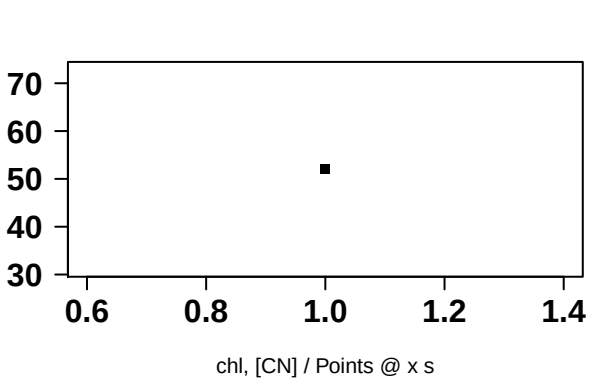

nb days: 8.4 freq: 10 min
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

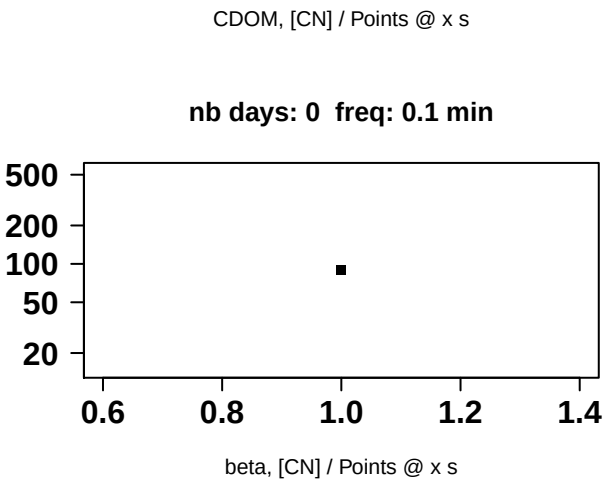

nb days: 8.4 freq: 59.9 min
0.20
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

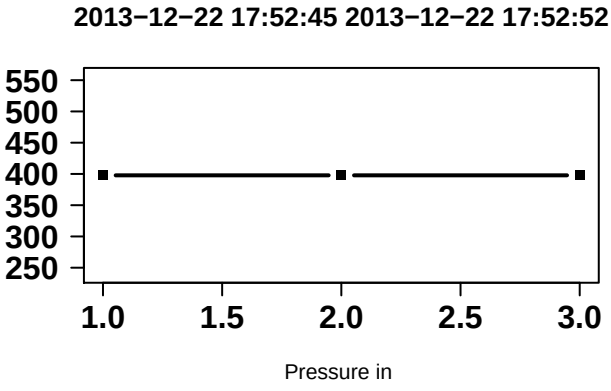

2013−12−22 13:45:47 2013−12−22 13:45:54
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

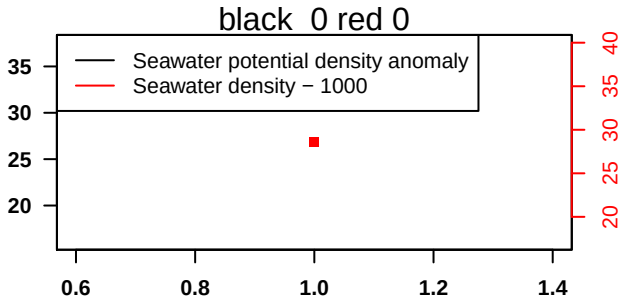

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

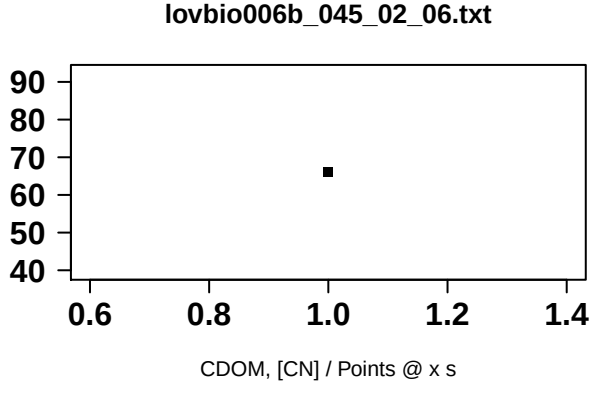

lovbio006b_045_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

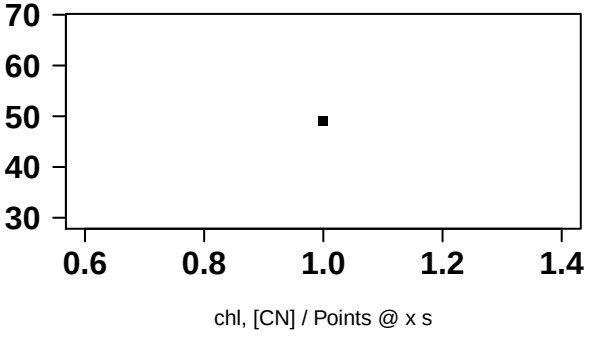

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

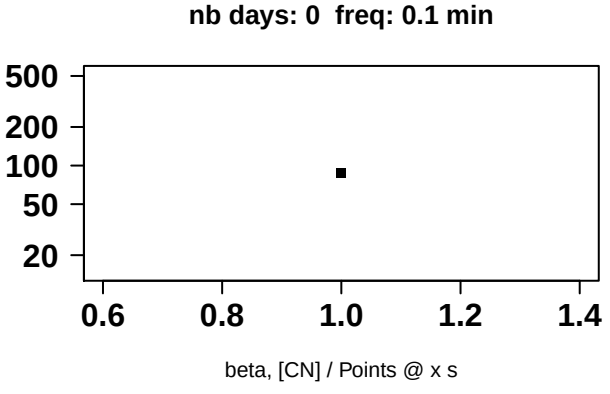

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

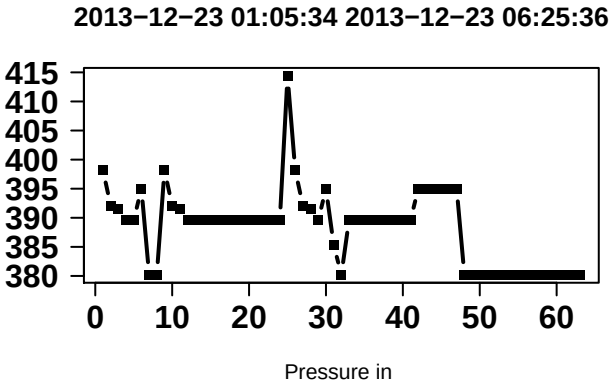

2013−12−22 17:52:45 2013−12−22 17:52:52
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

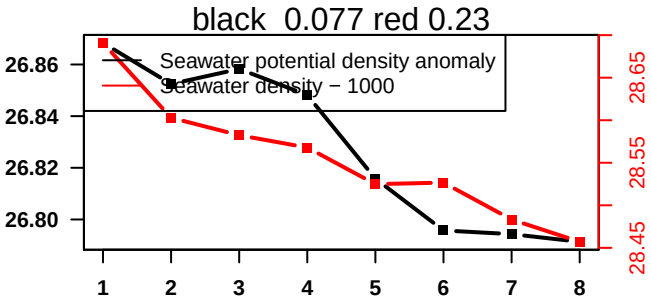

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

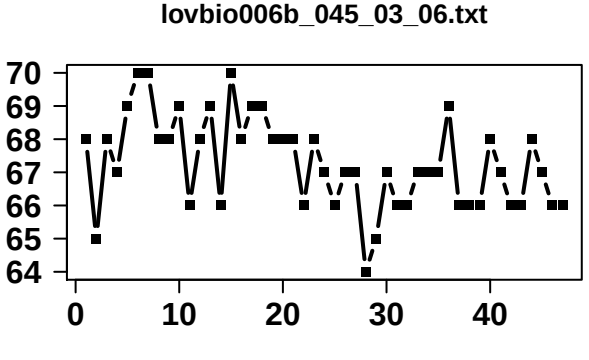

lovbio006b_045_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

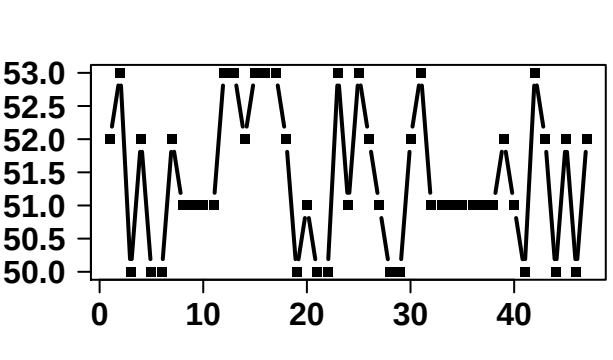

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

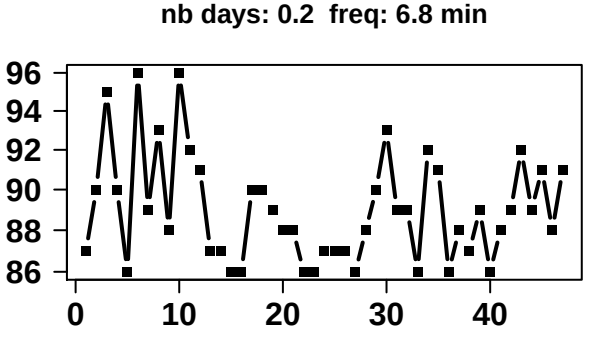

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

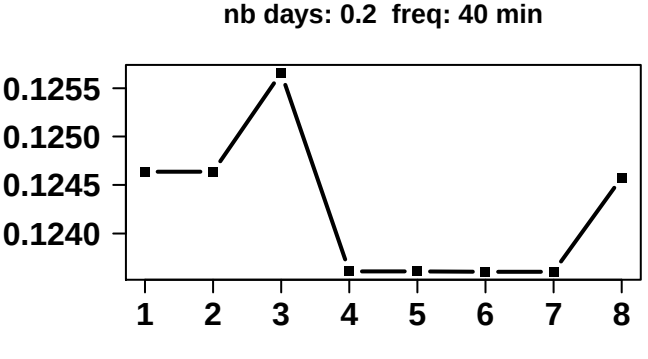

2013−12−23 01:05:34 2013−12−23 06:25:36
415
410
405
400
395
390
385
380
0
10
20
30
40
50
60
Pressure in

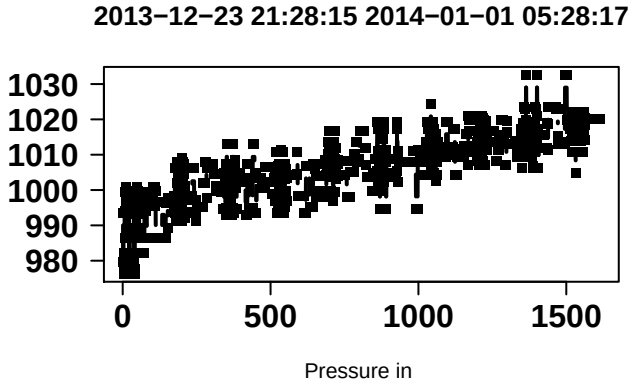

black 0.077 red 0.23
Seawater potential density anomaly
Seawater density − 1000
26.86
26.84
26.82
26.80
28.65
28.55
28.45
1
2
3
4
5
6
7
8

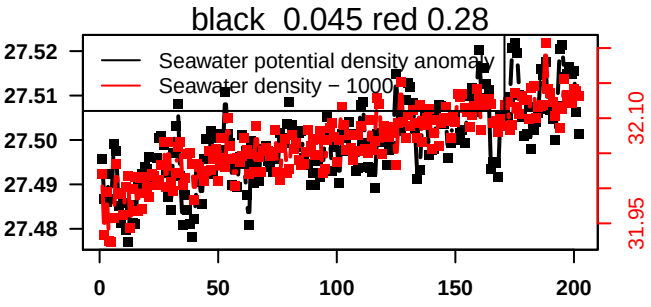

lovbio006b_045_03_06.txt
70
69
68
67
66
65
64
0
10
20
30
40
CDOM, [CN] / Points @ x s

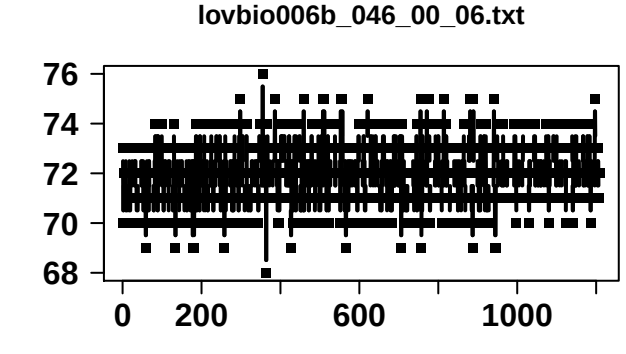

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
chl, [CN] / Points @ x s

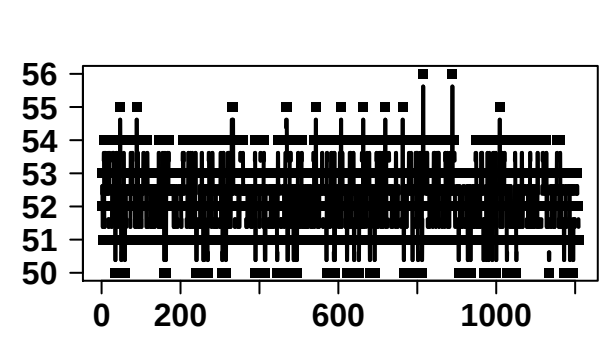

nb days: 0.2 freq: 6.8 min
96
94
92
90
88
86
0
10
20
30
40
beta, [CN] / Points @ x s

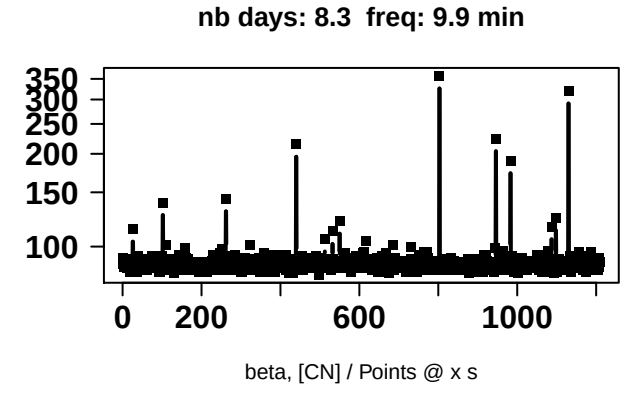

nb days: 0.2 freq: 40 min
0.1255
0.1250
0.1245
0.1240
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

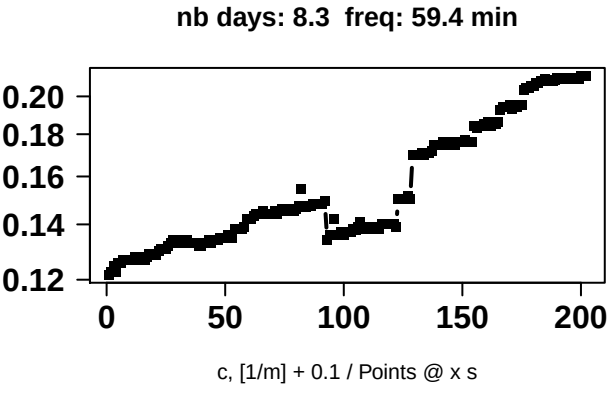

2013−12−23 21:28:15 2014−01−01 05:28:17
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

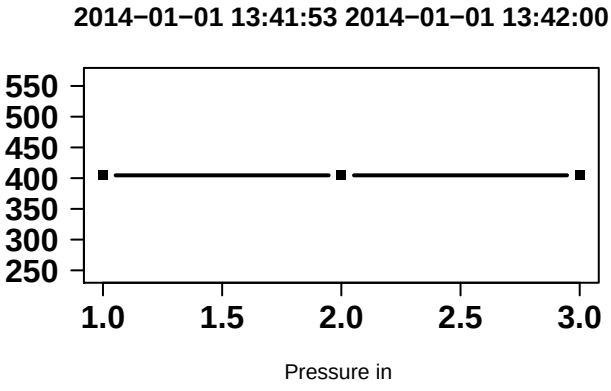

black 0.045 red 0.28
Seawater potential density anomaly
Seawater density − 1000
27.52
27.51
27.50
27.49
27.48
32.10
31.95
0
50
100
150
200

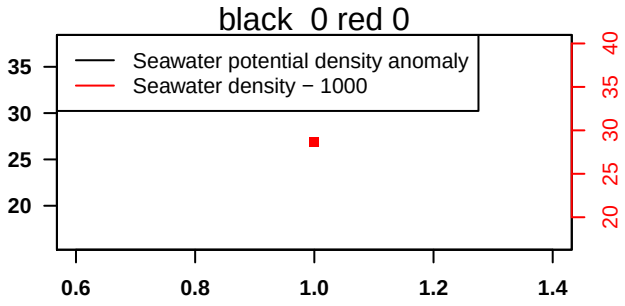

lovbio006b_046_00_06.txt
76
74
72
70
68
0
200
600
1000
CDOM, [CN] / Points @ x s

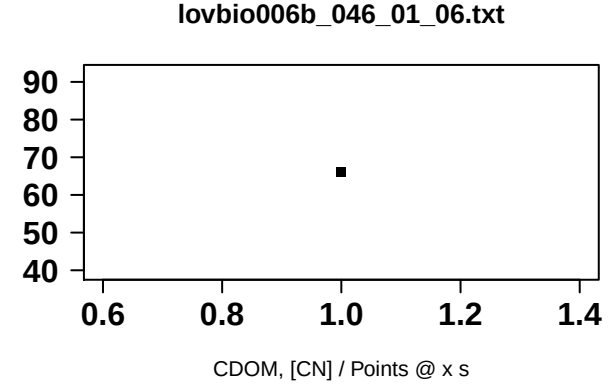

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

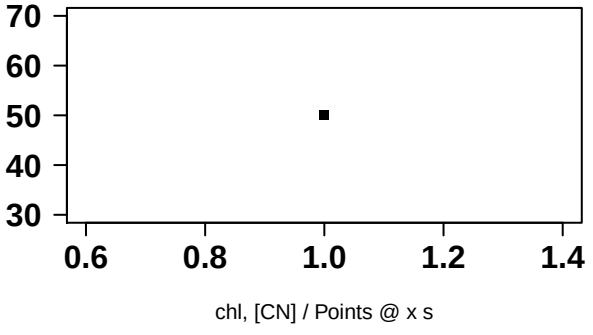

nb days: 8.3 freq: 9.9 min
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

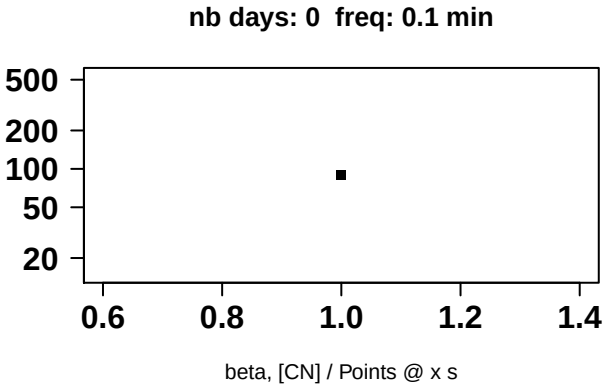

nb days: 8.3 freq: 59.4 min
0.20
0.18
0.16
0.14
0.12
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

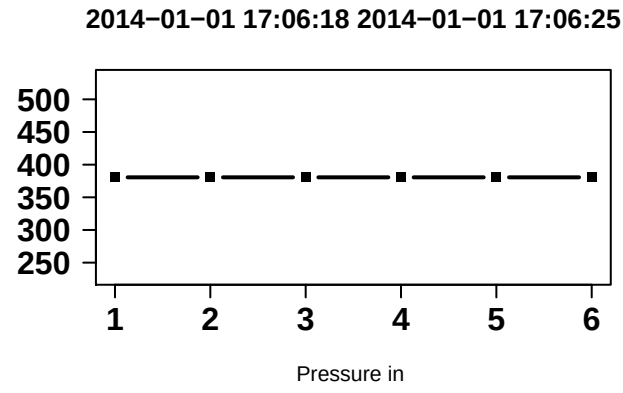

2014−01−01 13:41:53 2014−01−01 13:42:00
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

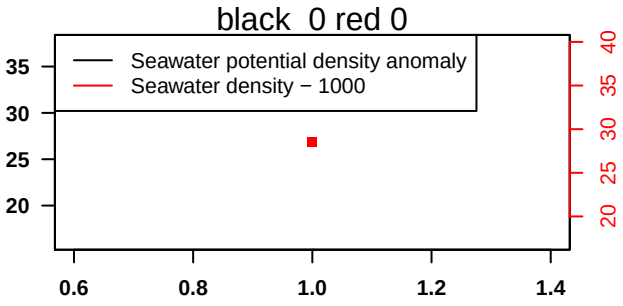

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

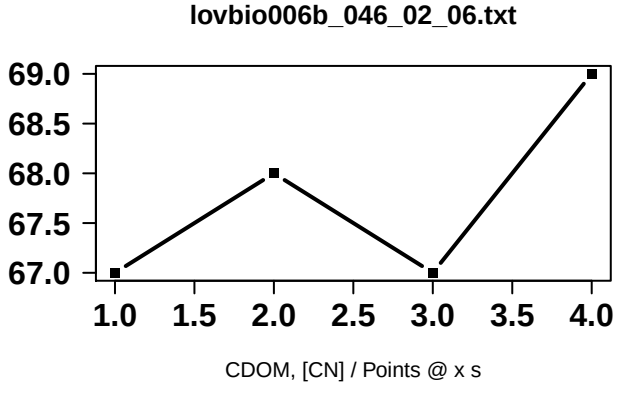

lovbio006b_046_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

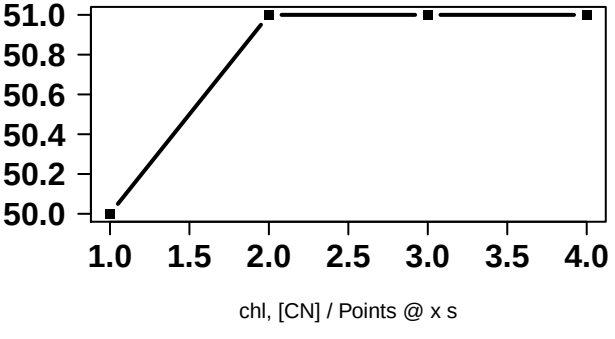

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

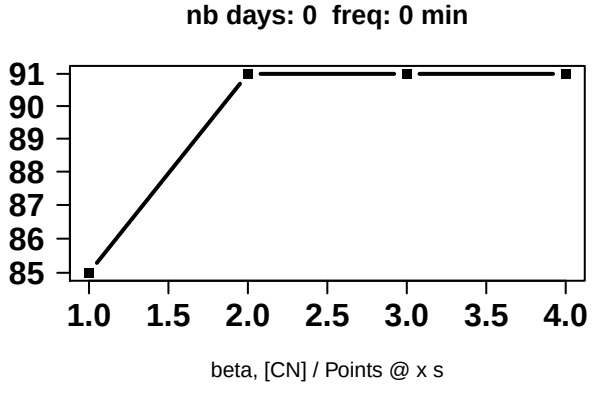

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

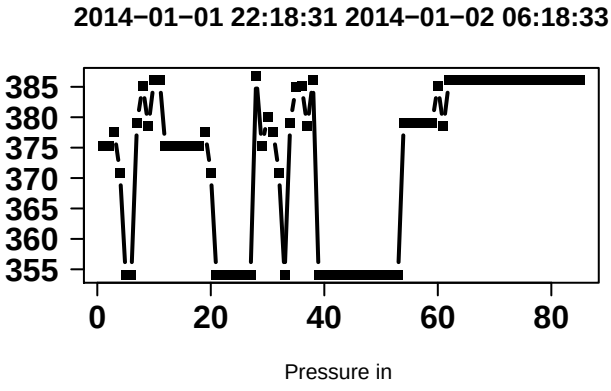

2014−01−01 17:06:18 2014−01−01 17:06:25
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

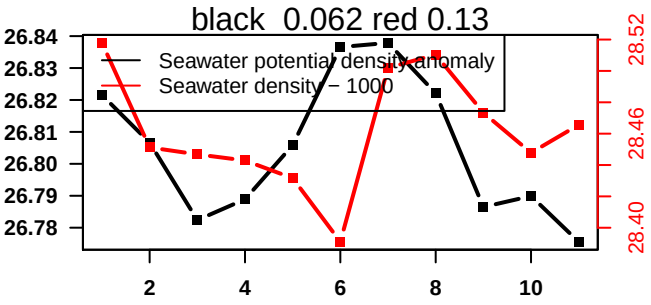

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

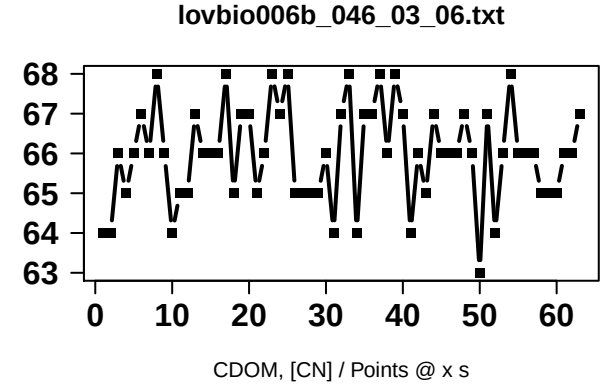

lovbio006b_046_02_06.txt
69.0
68.5
68.0
67.5
67.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

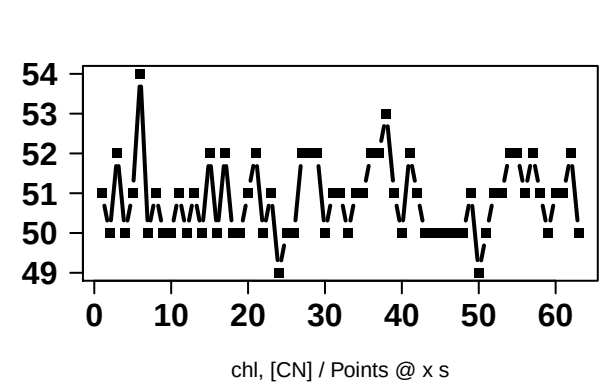

51.0
50.8
50.6
50.4
50.2
50.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

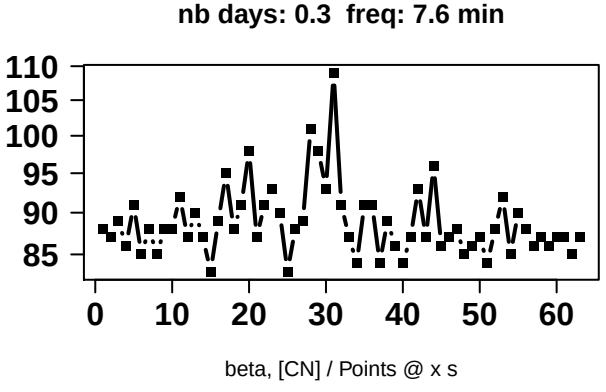

nb days: 0 freq: 0 min
91
90
89
88
87
86
85
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

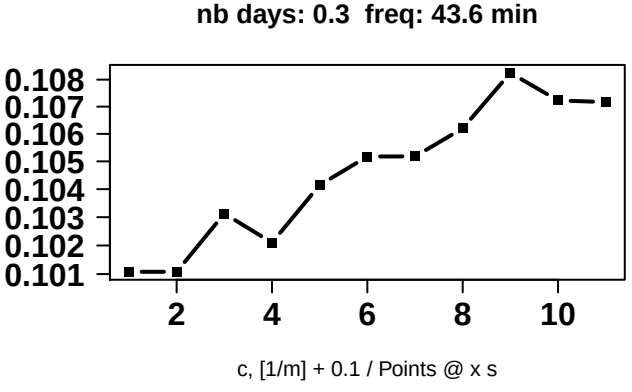

2014−01−01 22:18:31 2014−01−02 06:18:33
385
380
375
370
365
360
355
0
20
40
60
80
Pressure in

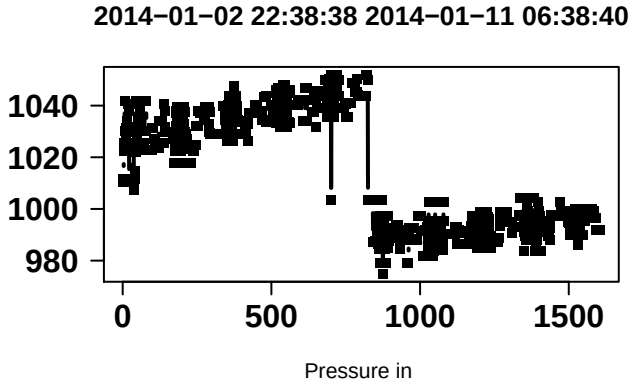

black 0.062 red 0.13
26.84
26.83
26.82
26.81
26.80
26.79
26.78
Seawater potential density anomaly
Seawater density − 1000
28.52
28.46
28.40
2
4
6
8
10

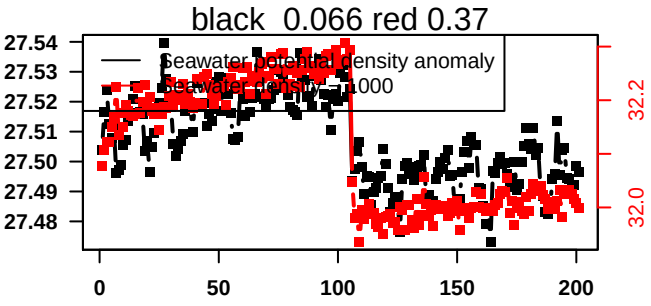

lovbio006b_046_03_06.txt
68
67
66
65
64
63
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

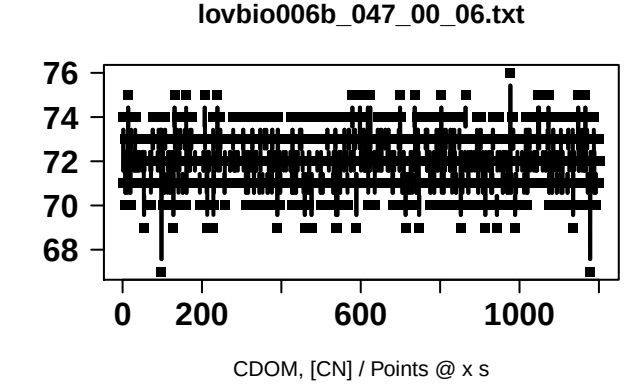

54
53
52
51
50
49
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

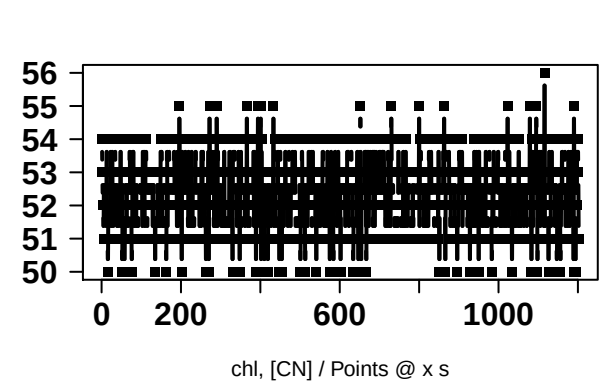

nb days: 0.3 freq: 7.6 min
110
105
100
95
90
85
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

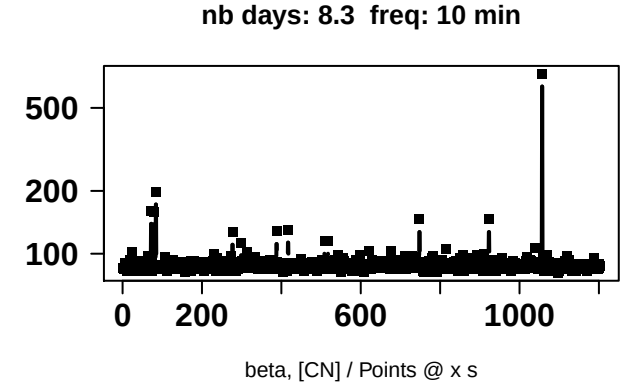

nb days: 0.3 freq: 43.6 min
0.108
0.107
0.106
0.105
0.104
0.103
0.102
0.101
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

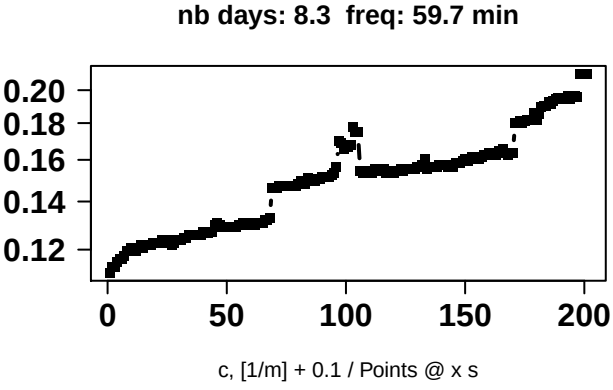

2014−01−02 22:38:38 2014−01−11 06:38:40
1040
1020
1000
980
0
500
1000
1500
Pressure in

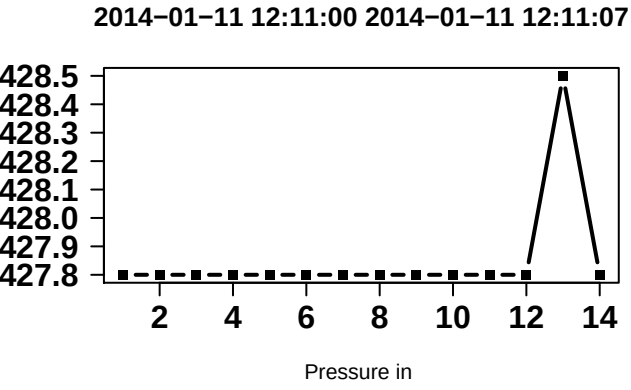

black 0.066 red 0.37
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
27.49
27.48
32.2
32.0
0
50
100
150
200

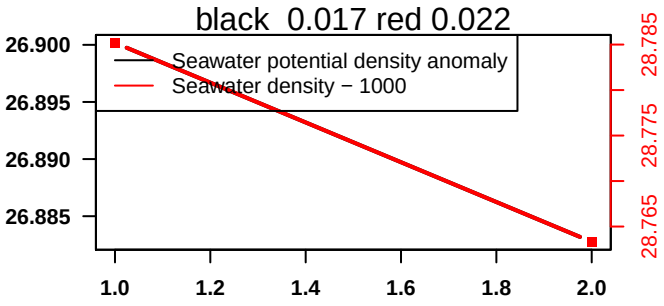

lovbio006b_047_00_06.txt
76
74
72
70
68
0
200
600
1000
CDOM, [CN] / Points @ x s

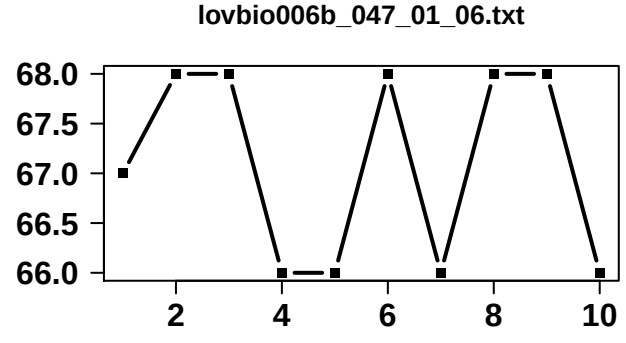

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

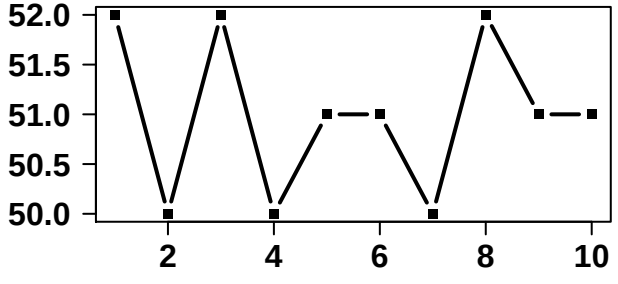

nb days: 8.3 freq: 10 min
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

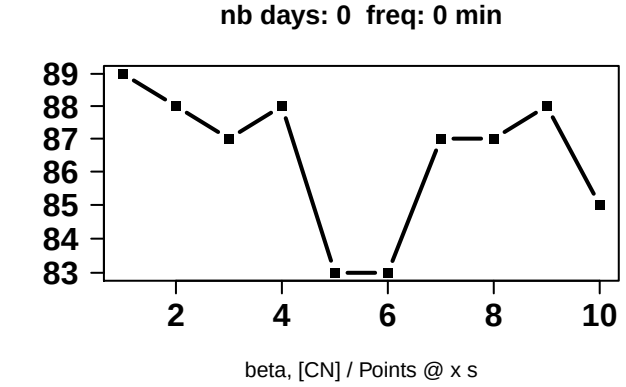

nb days: 8.3 freq: 59.7 min
0.20
0.18
0.16
0.14
0.12
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

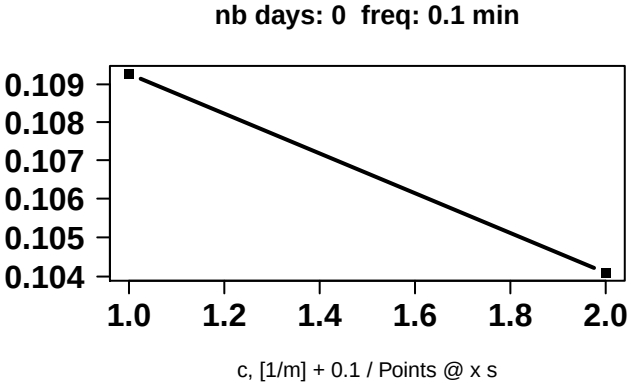

2014−01−11 12:11:00 2014−01−11 12:11:07
428.5
428.4
428.3
428.2
428.1
428.0
427.9
427.8
2
4
6
8
10
12
14
Pressure in

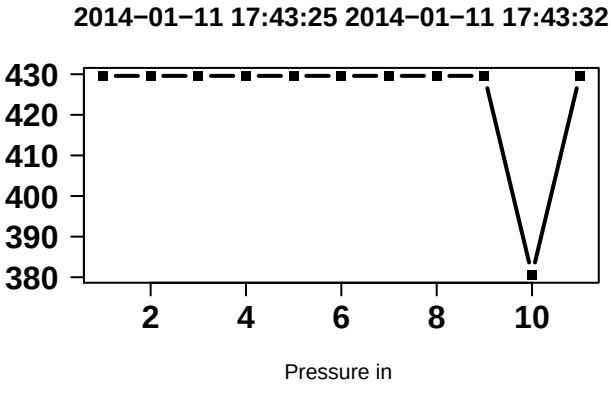

black 0.017 red 0.022
Seawater potential density anomaly
Seawater density − 1000
26.900
26.895
26.890
26.885
28.785
28.775
28.765
1.0
1.2
1.4
1.6
1.8
2.0

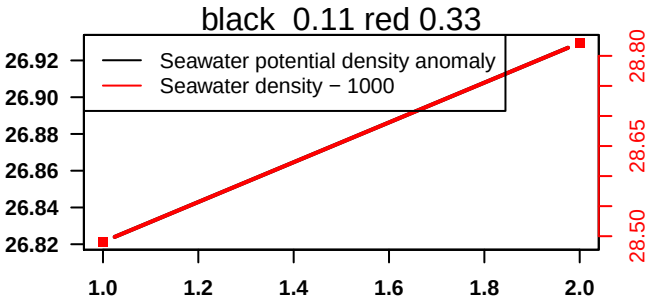

lovbio006b_047_01_06.txt
68.0
67.5
67.0
66.5
66.0
2
4
6
8
10
CDOM, [CN] / Points @ x s

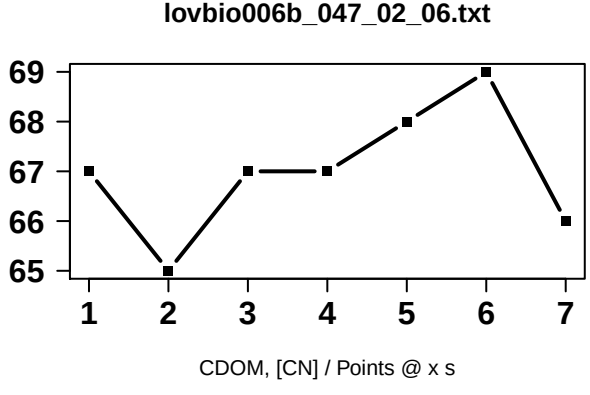

52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

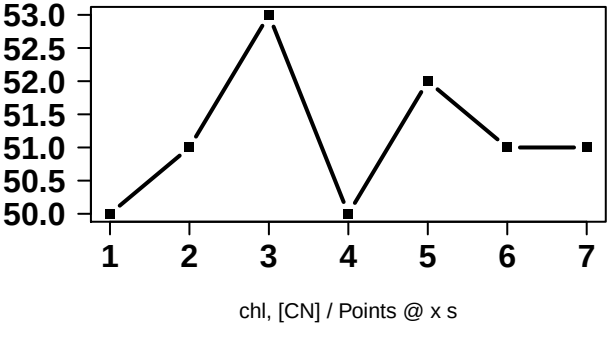

nb days: 0 freq: 0 min
89
88
87
86
85
84
83
2
4
6
8
10
beta, [CN] / Points @ x s

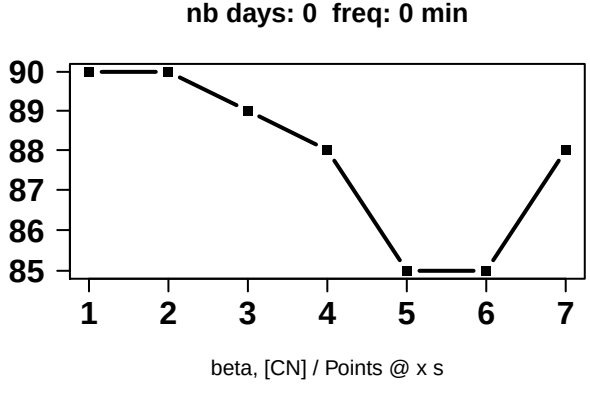

nb days: 0 freq: 0.1 min
0.109
0.108
0.107
0.106
0.105
0.104
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

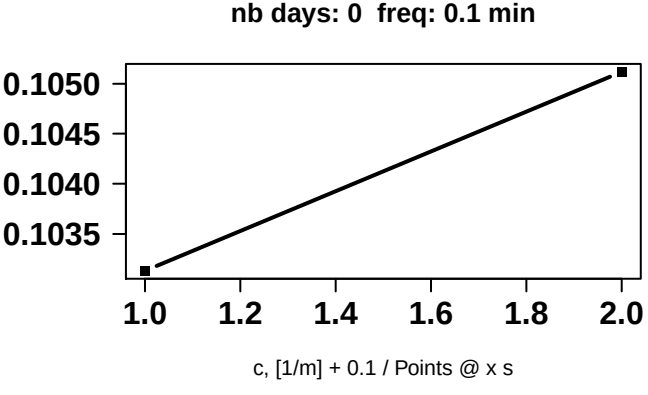

2014−01−11 17:43:25 2014−01−11 17:43:32
430
420
410
400
390
380
2
4
6
8
10
Pressure in

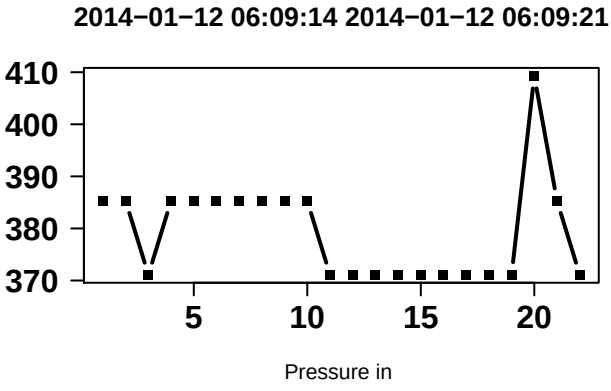

black 0.11 red 0.33
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
26.84
26.82
28.80
28.65
28.50
1.0
1.2
1.4
1.6
1.8
2.0

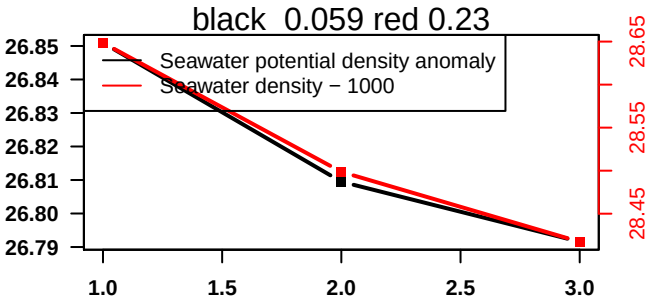

lovbio006b_047_02_06.txt
69
68
67
66
65
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

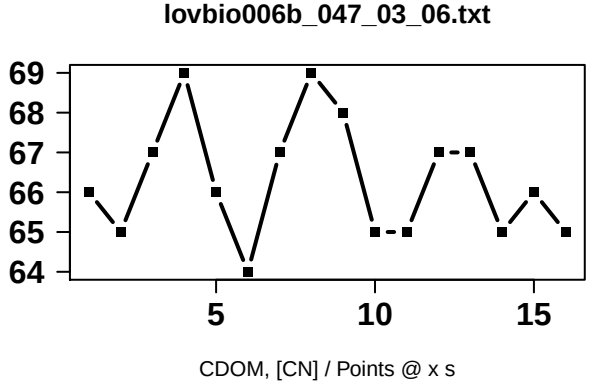

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

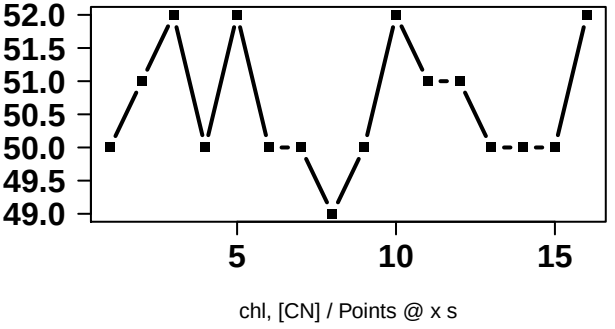

nb days: 0 freq: 0 min
90
89
88
87
86
85
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

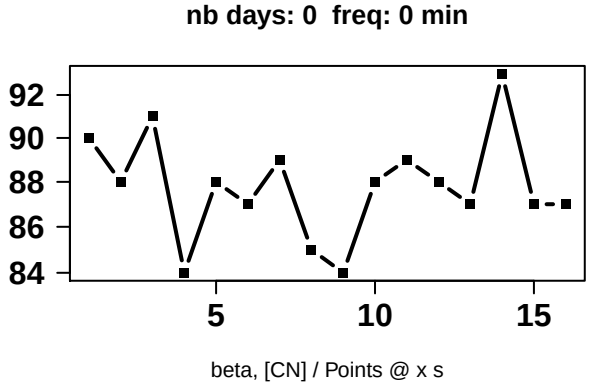

nb days: 0 freq: 0.1 min
0.1050
0.1045
0.1040
0.1035
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

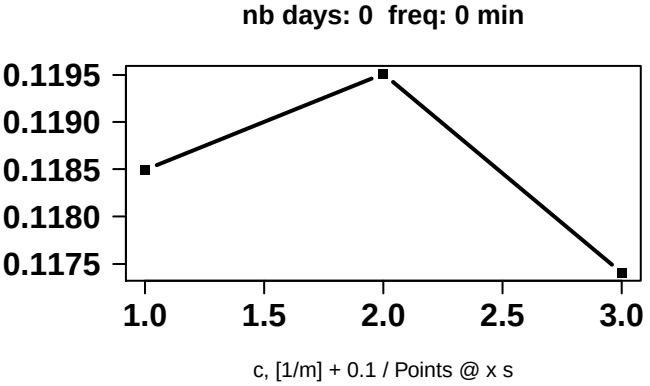

2014−01−12 06:09:14 2014−01−12 06:09:21
410
400
390
380
370
5
10
15
20
Pressure in

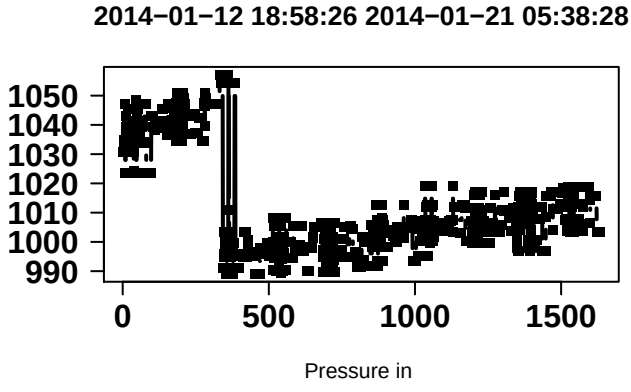

black 0.059 red 0.23
Seawater potential density anomaly
Seawater density − 1000
26.85
26.84
26.83
26.82
26.81
26.80
26.79
28.65
28.55
28.45
1.0
1.5
2.0
2.5
3.0

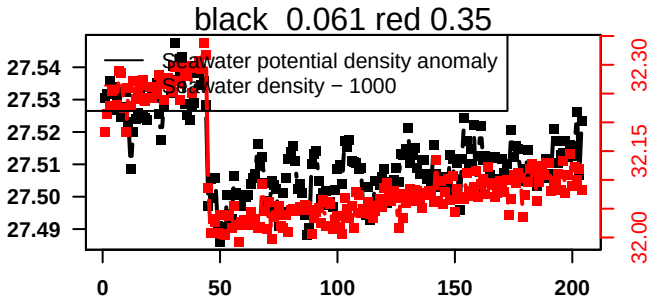

lovbio006b_047_03_06.txt
69
68
67
66
65
64
5
10
15
CDOM, [CN] / Points @ x s

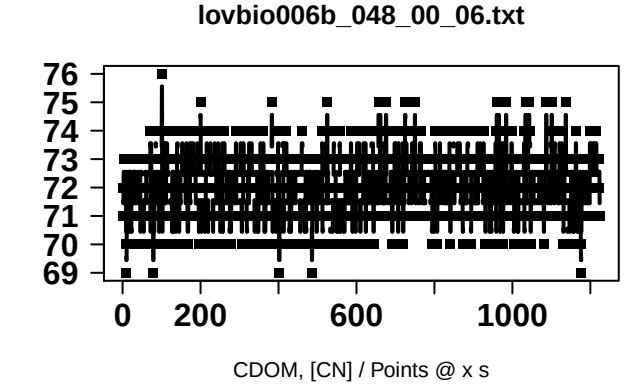

52.0
51.5
51.0
50.5
50.0
49.5
49.0
5
10
15
chl, [CN] / Points @ x s

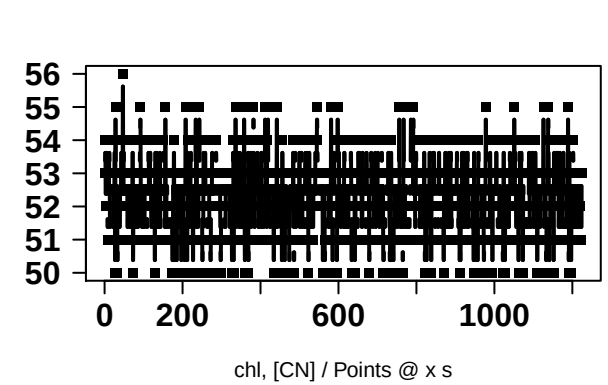

nb days: 0 freq: 0 min
92
90
88
86
84
5
10
15
beta, [CN] / Points @ x s

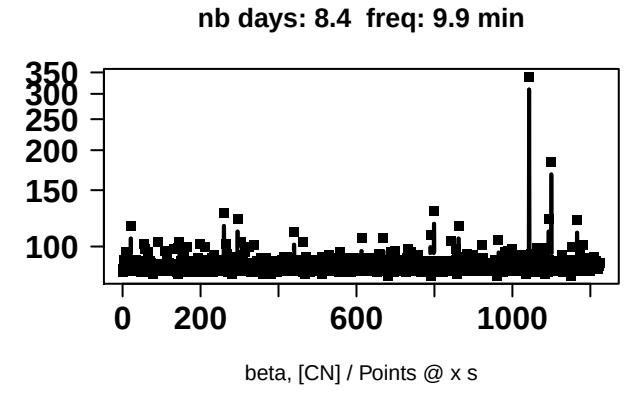

nb days: 0 freq: 0 min
0.1195
0.1190
0.1185
0.1180
0.1175
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

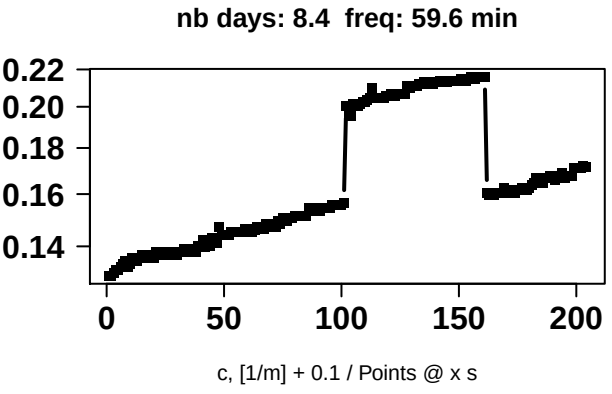

2014−01−12 18:58:26 2014−01−21 05:38:28
1050
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

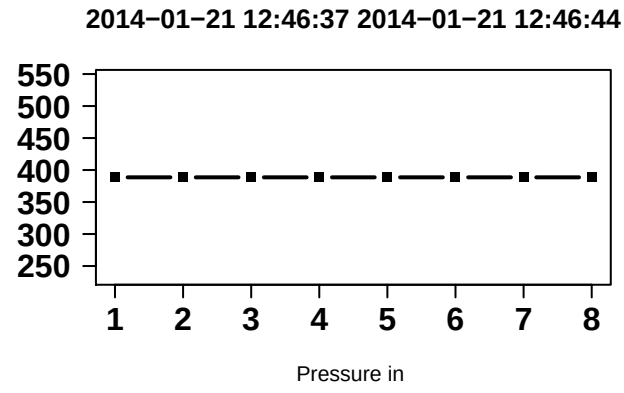

black 0.061 red 0.35
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
27.49
32.30
32.15
32.00
0
50
100
150
200

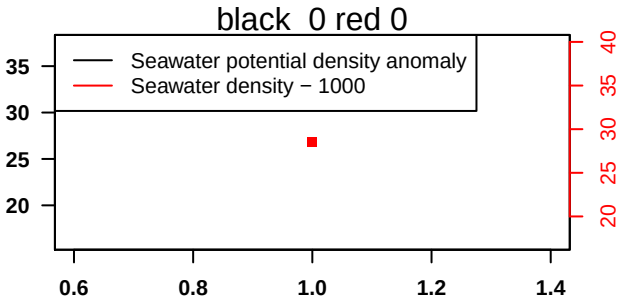

lovbio006b_048_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

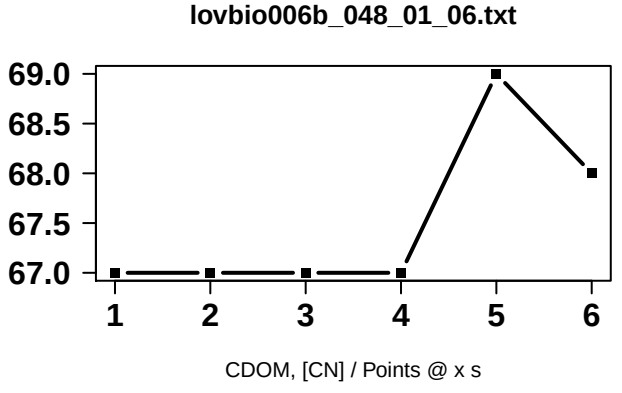

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

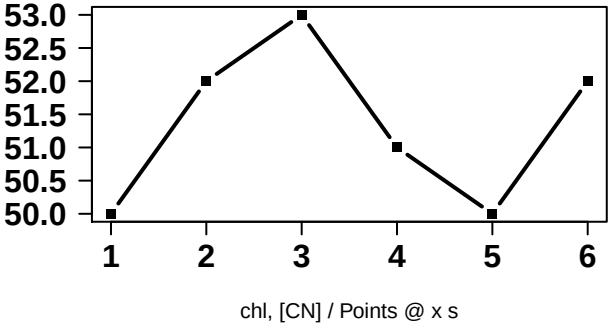

nb days: 8.4 freq: 9.9 min
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

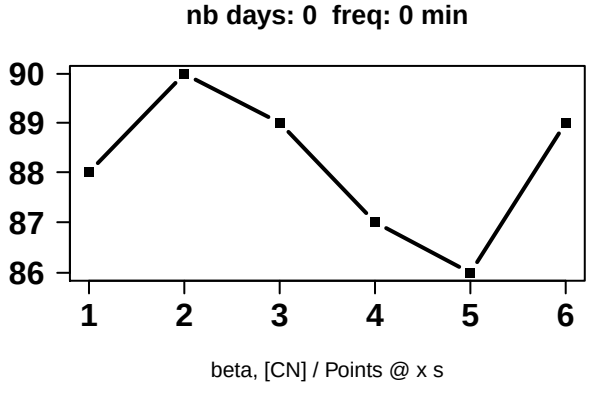

nb days: 8.4 freq: 59.6 min
0.22
0.20
0.18
0.16
0.14
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

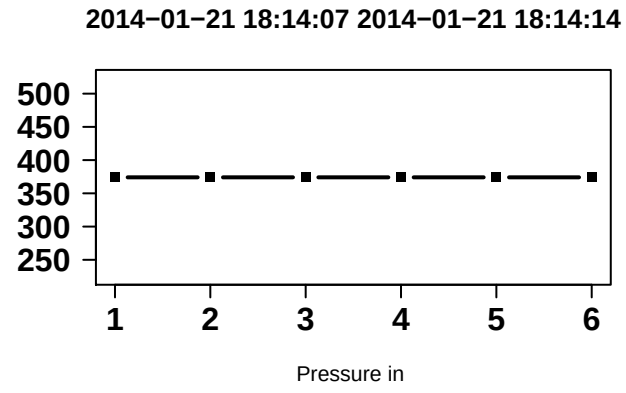

2014−01−21 12:46:37 2014−01−21 12:46:44
550
500
450
400
350
300
250
1
2
3
4
5
6
7
8
Pressure in

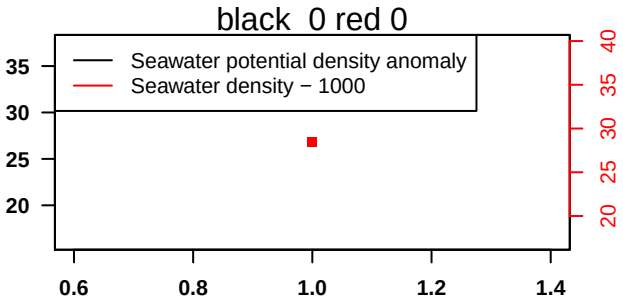

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

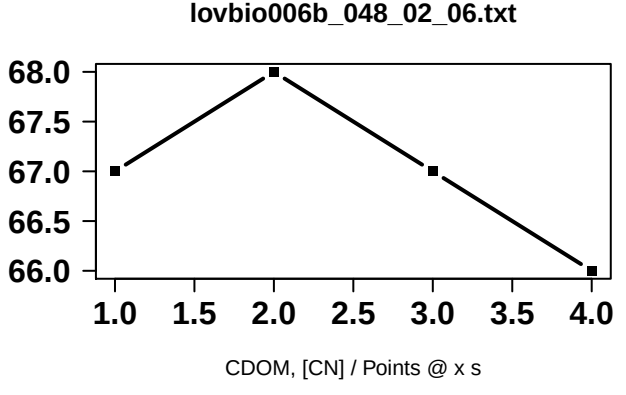

lovbio006b_048_01_06.txt
69.0
68.5
68.0
67.5
67.0
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

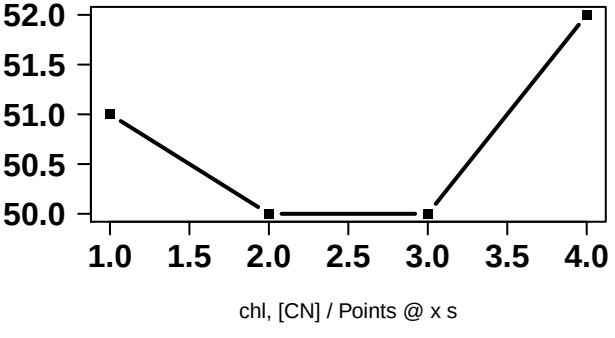

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

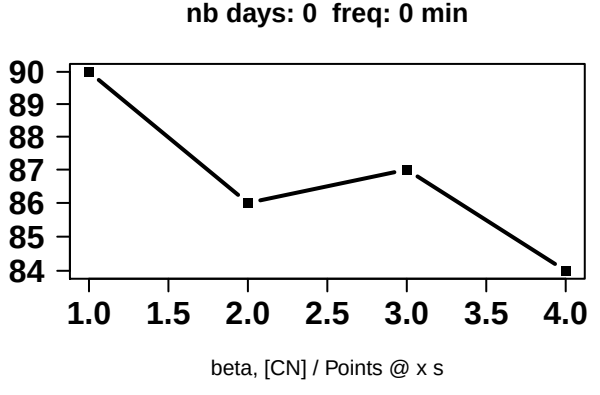

nb days: 0 freq: 0 min
90
89
88
87
86
1
2
3
4
5
6
beta, [CN] / Points @ x s

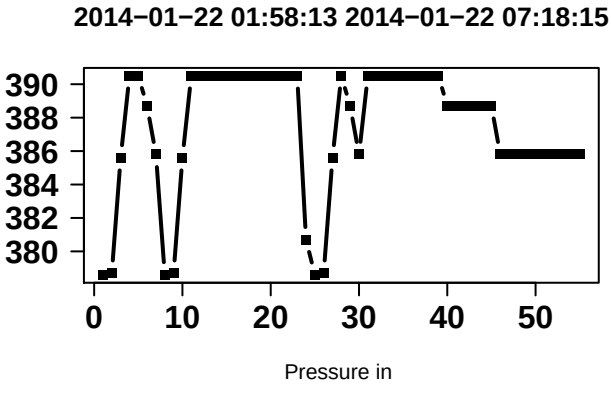

2014−01−21 18:14:07 2014−01−21 18:14:14
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

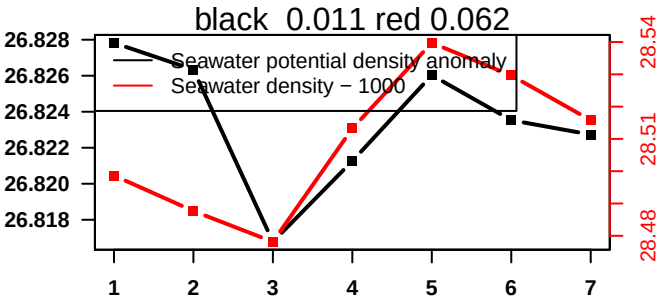

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

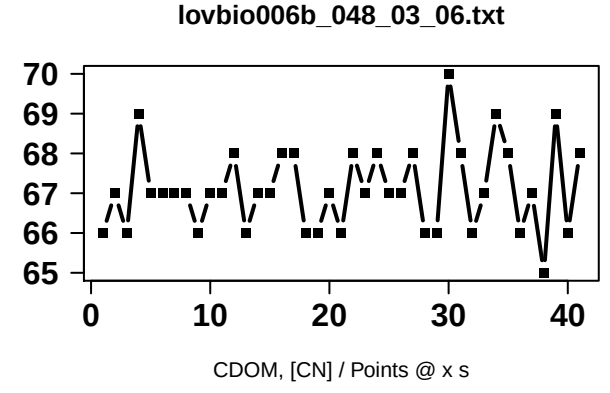

lovbio006b_048_02_06.txt
68.0
67.5
67.0
66.5
66.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

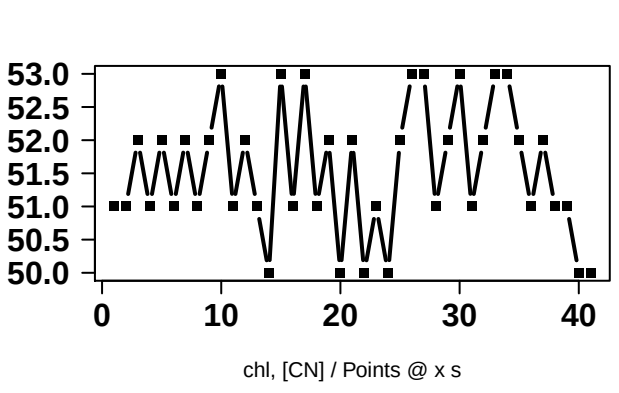

52.0
51.5
51.0
50.5
50.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

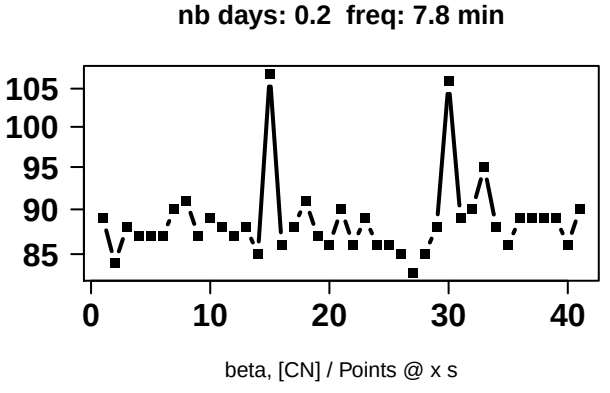

nb days: 0 freq: 0 min
90
89
88
87
86
85
84
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

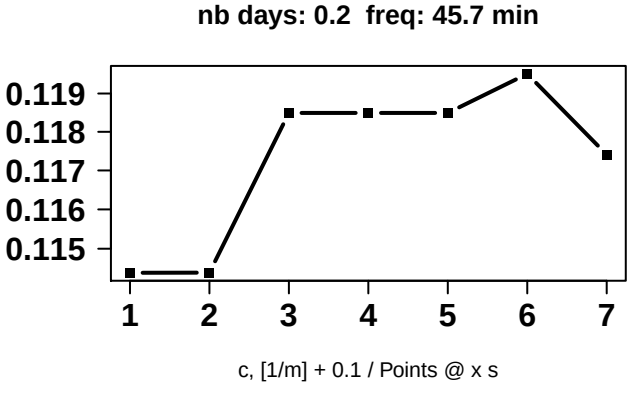

2014−01−22 01:58:13 2014−01−22 07:18:15
390
388
386
384
382
380
0
10
20
30
40
50
Pressure in

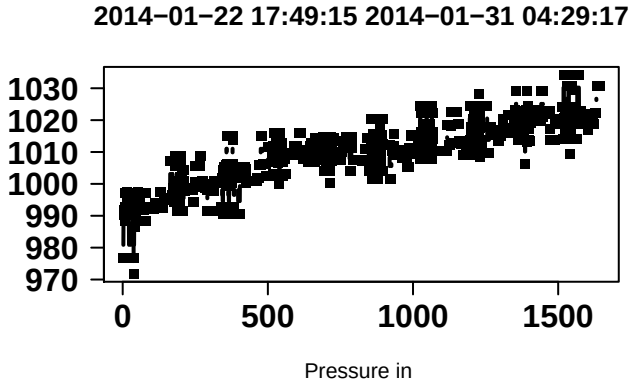

black 0.011 red 0.062
Seawater potential density anomaly
Seawater density − 1000
26.828
26.826
26.824
26.822
26.820
26.818
28.54
28.51
28.48
1
2
3
4
5
6
7

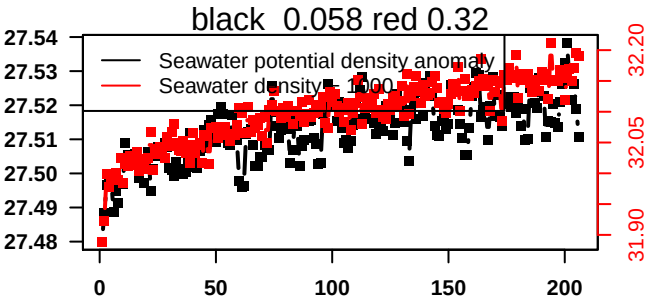

lovbio006b_048_03_06.txt
70
69
68
67
66
65
0
10
20
30
40
CDOM, [CN] / Points @ x s

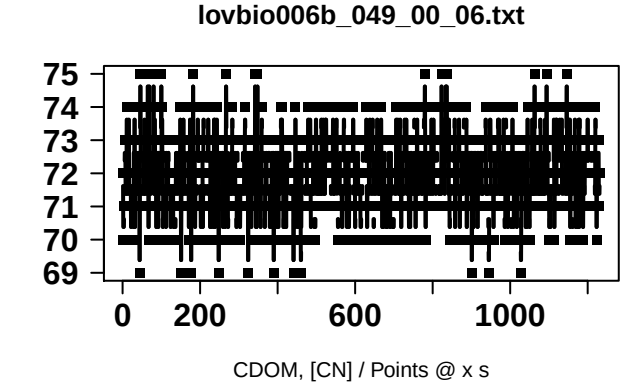

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
chl, [CN] / Points @ x s

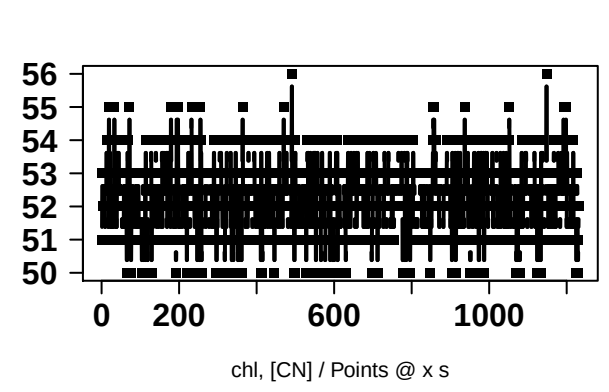

nb days: 0.2 freq: 7.8 min
105
100
95
90
85
0
10
20
30
40
beta, [CN] / Points @ x s

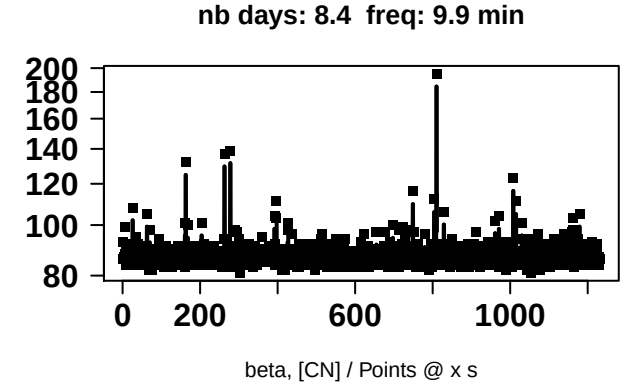

nb days: 0.2 freq: 45.7 min
0.119
0.118
0.117
0.116
0.115
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

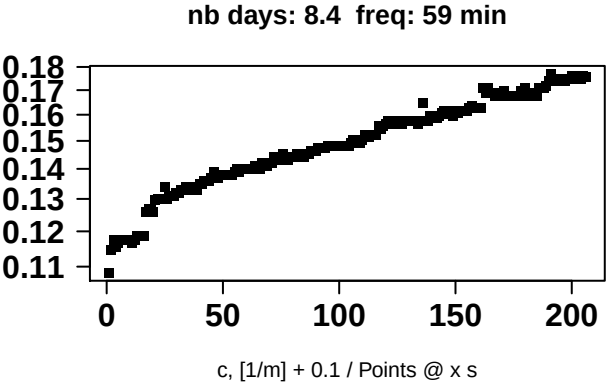

2014−01−22 17:49:15 2014−01−31 04:29:17
1030
1020
1010
1000
990
980
970
0
500
1000
1500
Pressure in

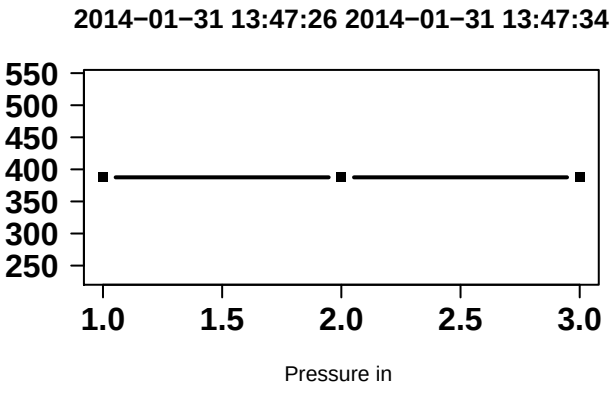

black 0.058 red 0.32
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
27.49
27.48
32.20
32.05
31.90
0
50
100
150
200

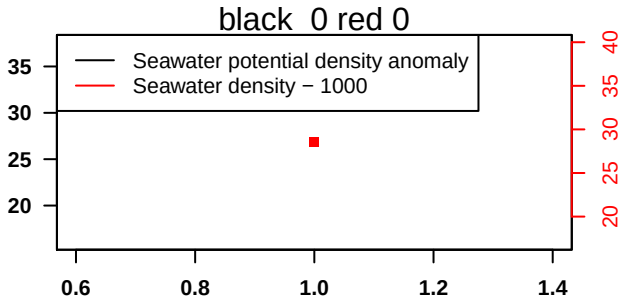

lovbio006b_049_00_06.txt
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

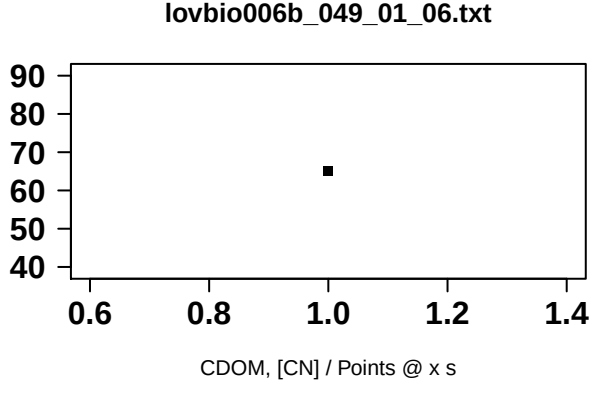

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

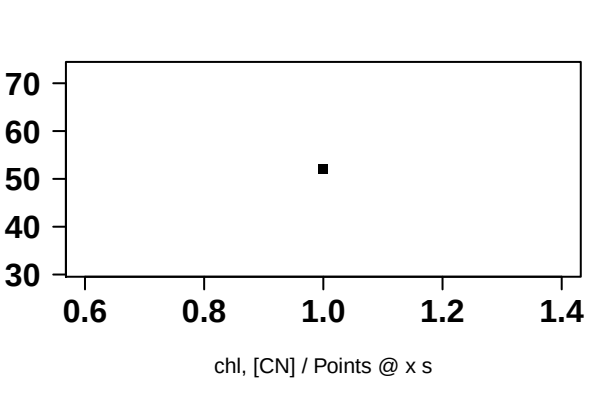

nb days: 8.4 freq: 9.9 min
200
180
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

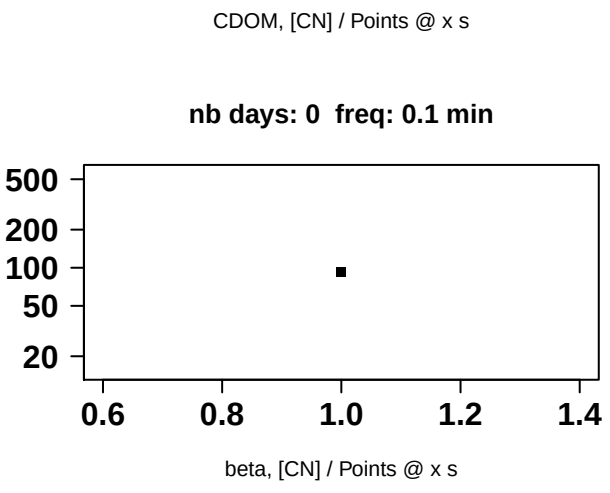

nb days: 8.4 freq: 59 min
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

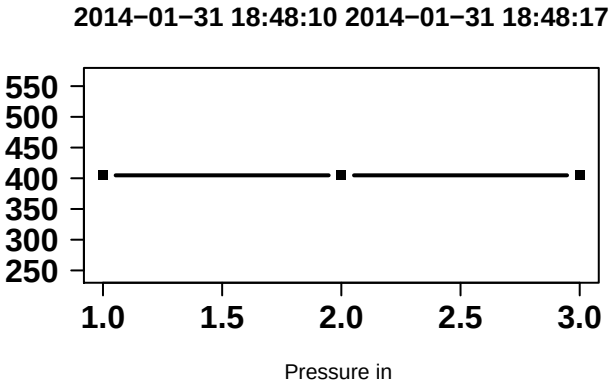

2014−01−31 13:47:26 2014−01−31 13:47:34
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

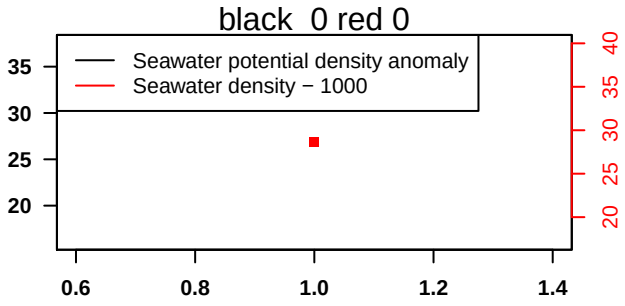

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

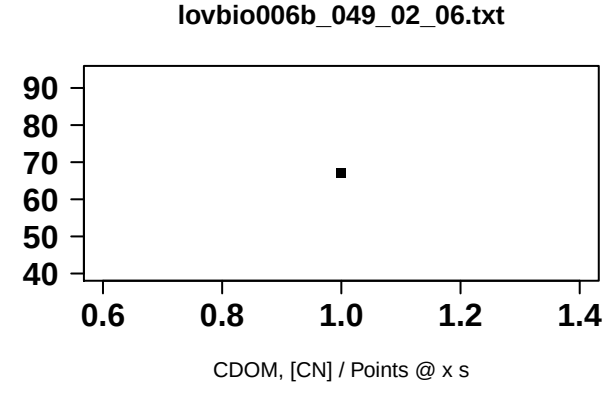

lovbio006b_049_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

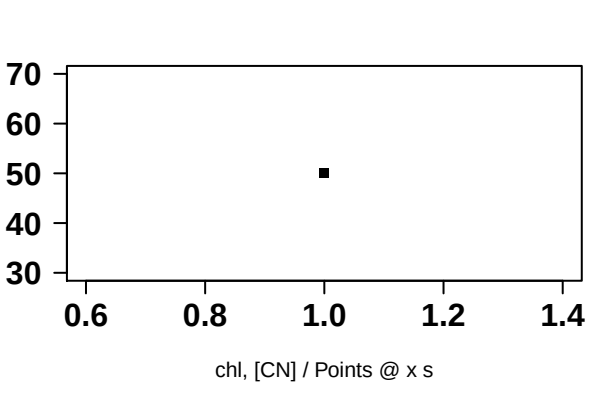

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

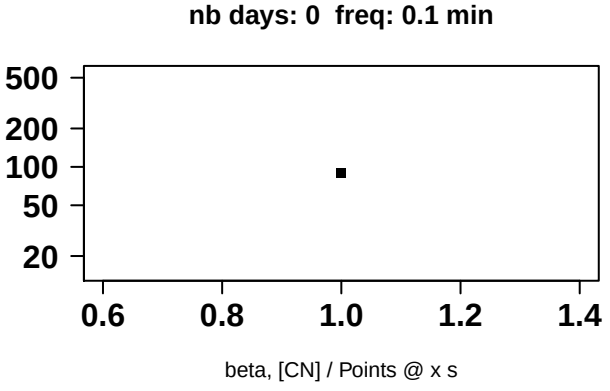

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

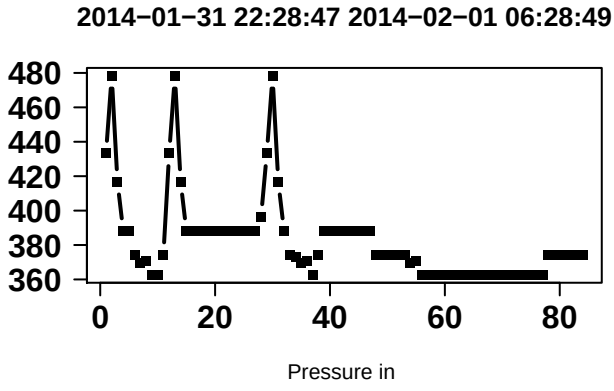

2014−01−31 18:48:10 2014−01−31 18:48:17
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

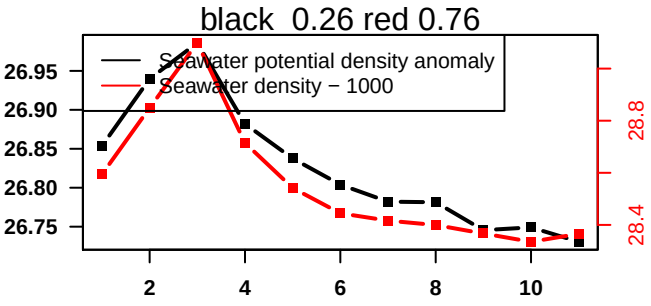

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

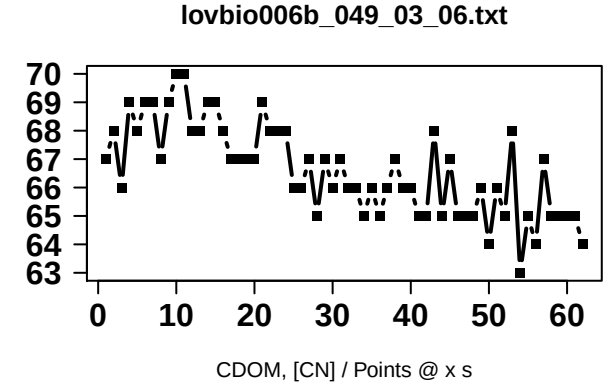

lovbio006b_049_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

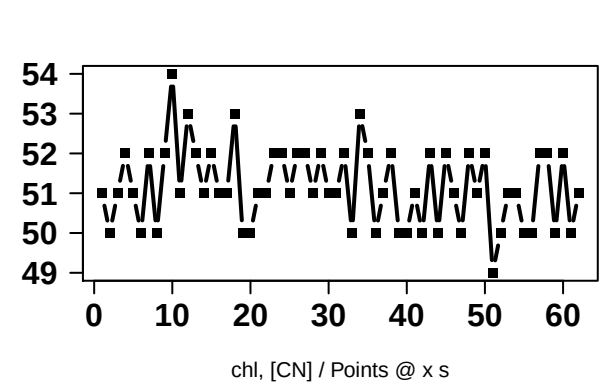

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

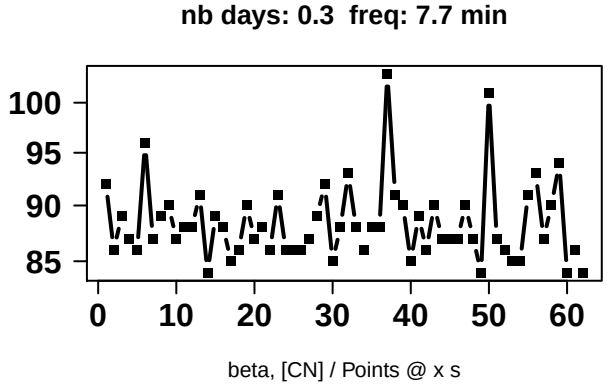

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

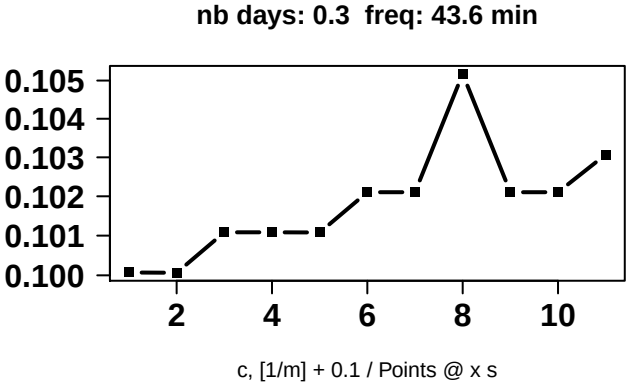

2014−01−31 22:28:47 2014−02−01 06:28:49
480
460
440
420
400
380
360
0
20
40
60
80
Pressure in

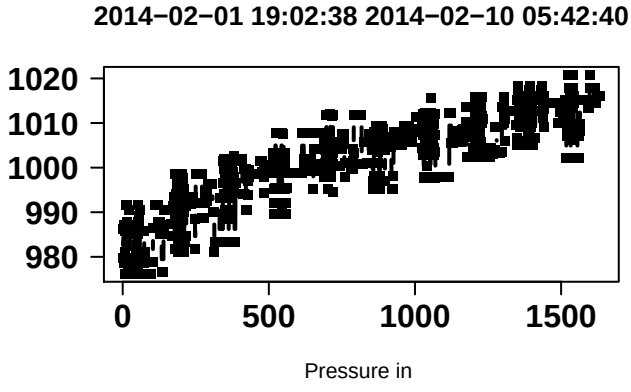

black 0.26 red 0.76
Seawater potential density anomaly
Seawater density − 1000
26.95
26.90
26.85
26.80
26.75
28.8
28.4
2
4
6
8
10

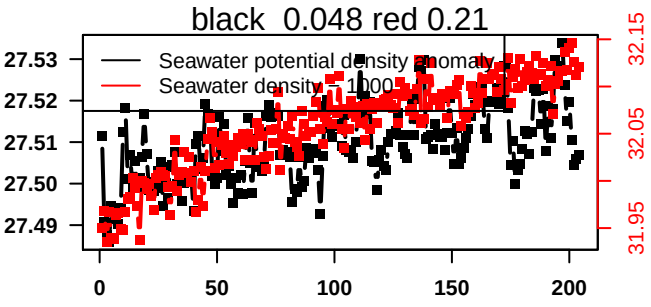

lovbio006b_049_03_06.txt
70
69
68
67
66
65
64
63
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

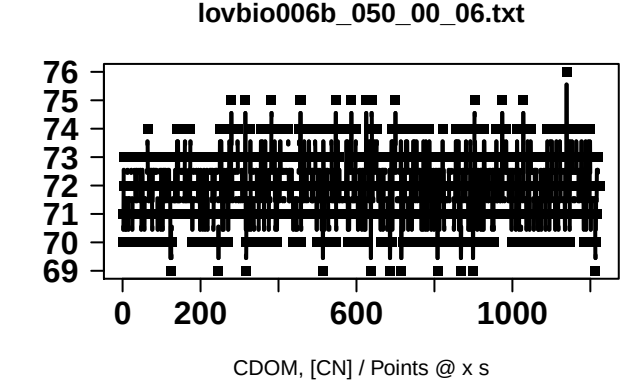

54
53
52
51
50
49
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

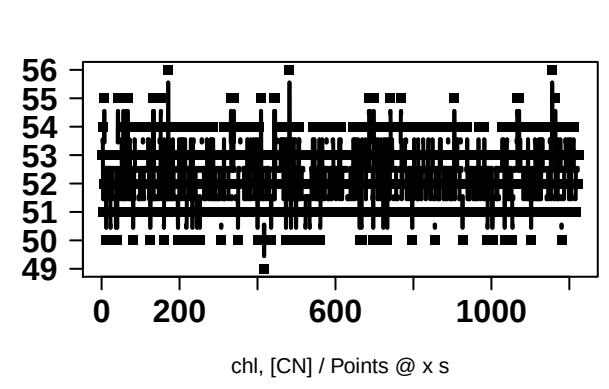

nb days: 0.3 freq: 7.7 min
100
95
90
85
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

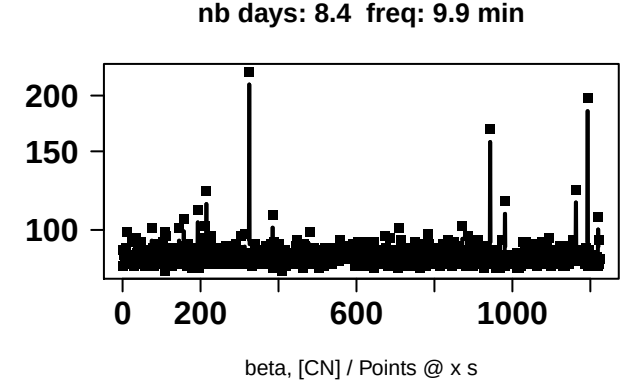

nb days: 0.3 freq: 43.6 min
0.105
0.104
0.103
0.102
0.101
0.100
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

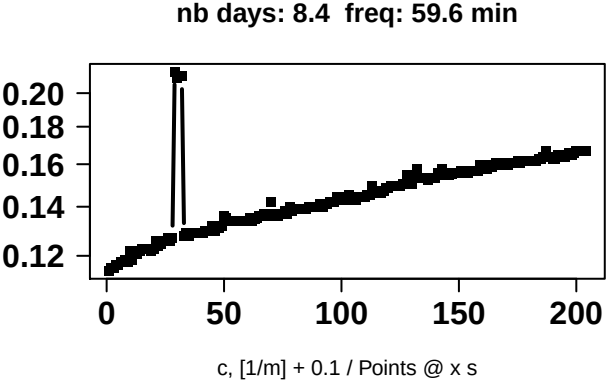

2014−02−01 19:02:38 2014−02−10 05:42:40
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

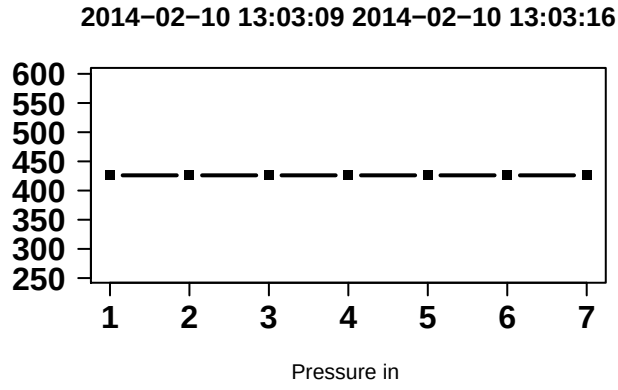

black 0.048 red 0.21
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
32.15
32.05
31.95
0
50
100
150
200

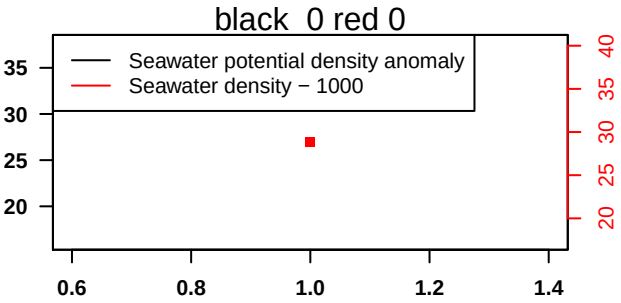

lovbio006b_050_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

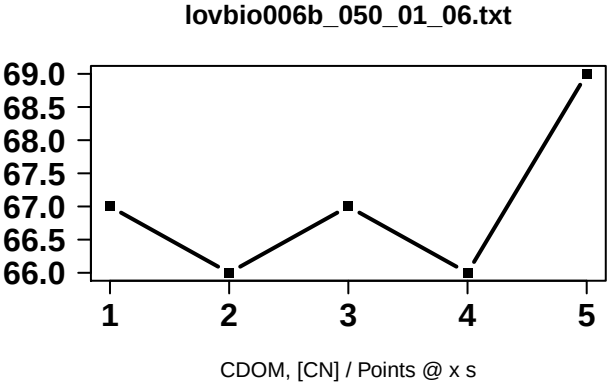

56
55
54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

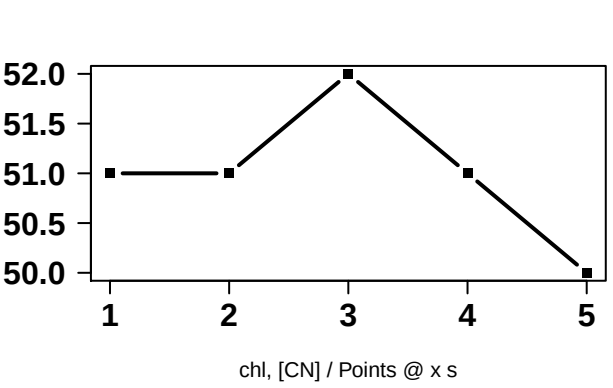

nb days: 8.4 freq: 9.9 min
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

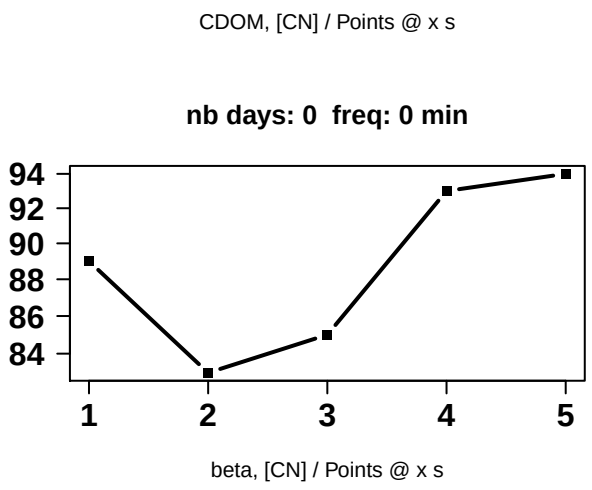

nb days: 8.4 freq: 59.6 min
0.20
0.18
0.16
0.14
0.12
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

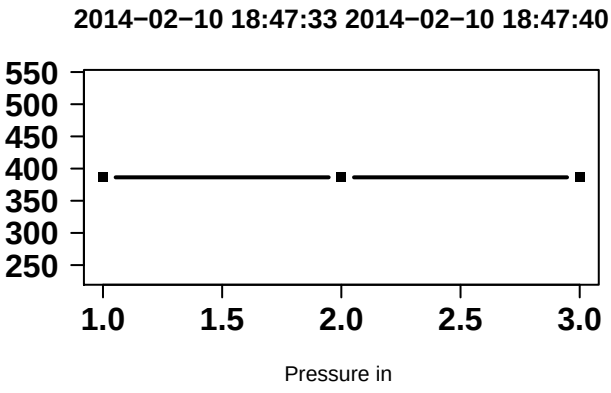

2014−02−10 13:03:09 2014−02−10 13:03:16
600
550
500
450
400
350
300
250
1
2
3
4
5
6
7
Pressure in

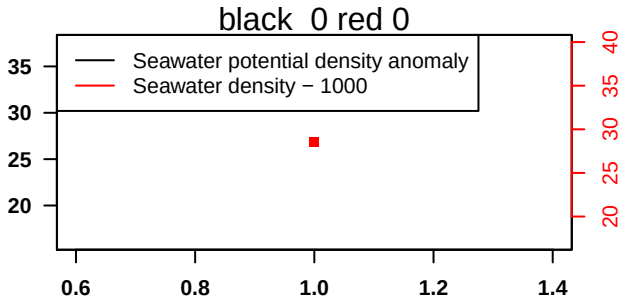

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

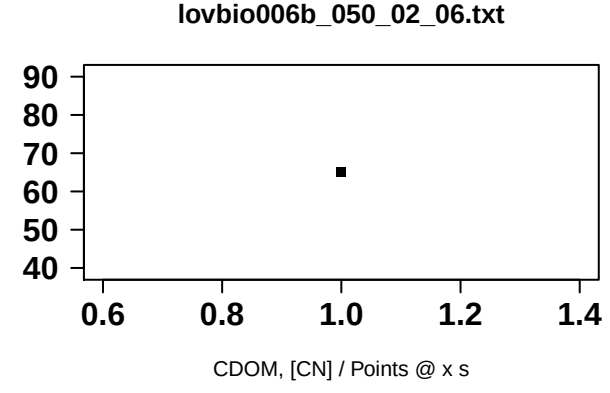

lovbio006b_050_01_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

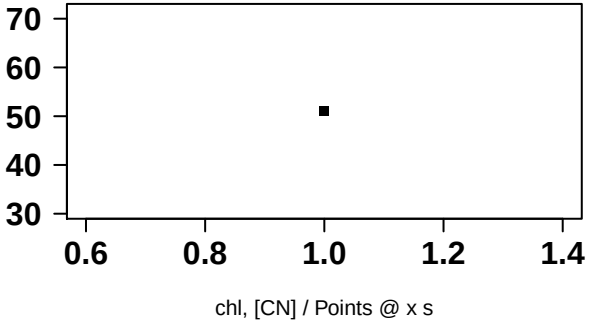

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
chl, [CN] / Points @ x s

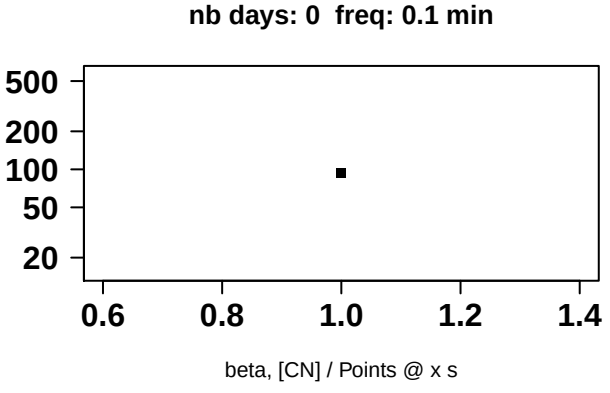

nb days: 0 freq: 0 min
94
92
90
88
86
84
1
2
3
4
5
beta, [CN] / Points @ x s

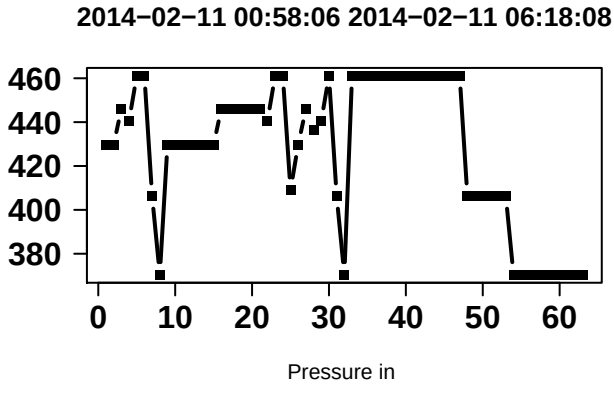

2014−02−10 18:47:33 2014−02−10 18:47:40
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

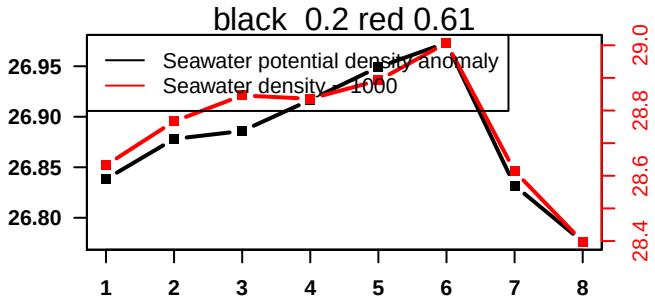

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

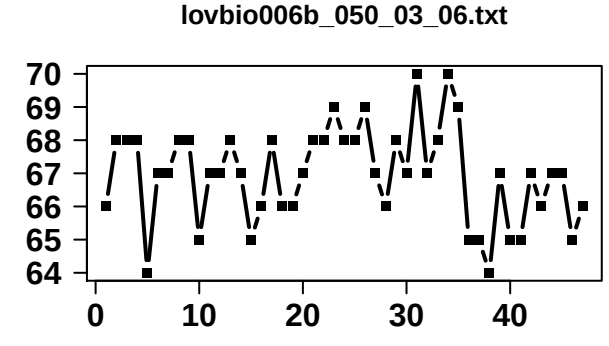

lovbio006b_050_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

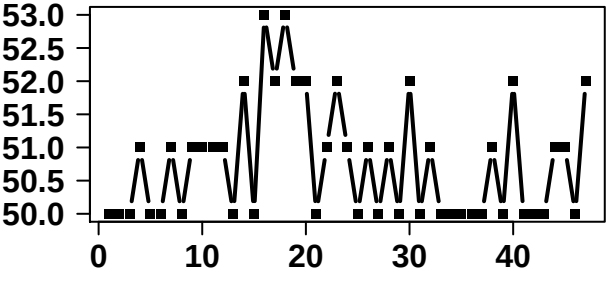

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

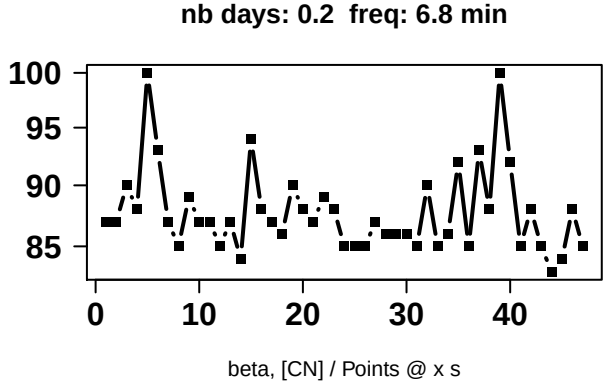

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

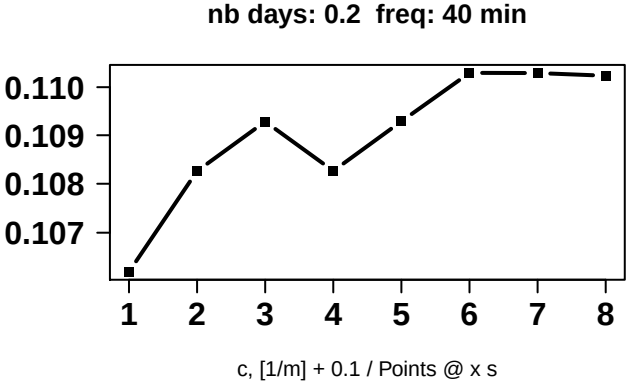

2014−02−11 00:58:06 2014−02−11 06:18:08
460
440
420
400
380
0
10
20
30
40
50
60
Pressure in

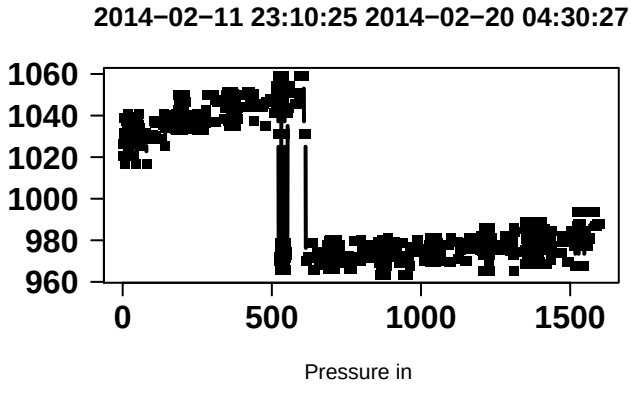

black 0.2 red 0.61
Seawater potential density anomaly
Seawater density − 1000
26.95
26.90
26.85
26.80
29.0
28.8
28.6
28.4
1
2
3
4
5
6
7
8

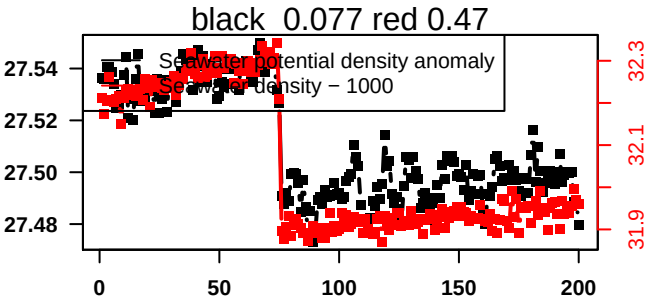

lovbio006b_050_03_06.txt
70
69
68
67
66
65
64
0
10
20
30
40
CDOM, [CN] / Points @ x s

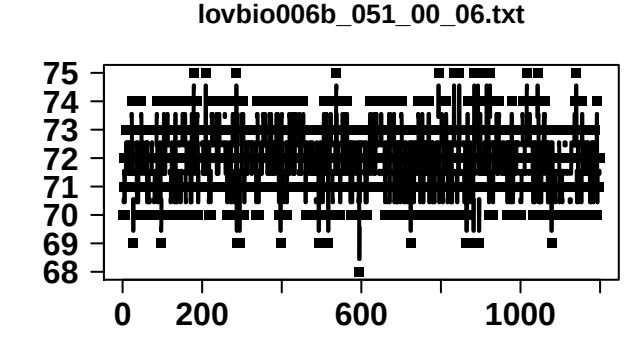

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
chl, [CN] / Points @ x s

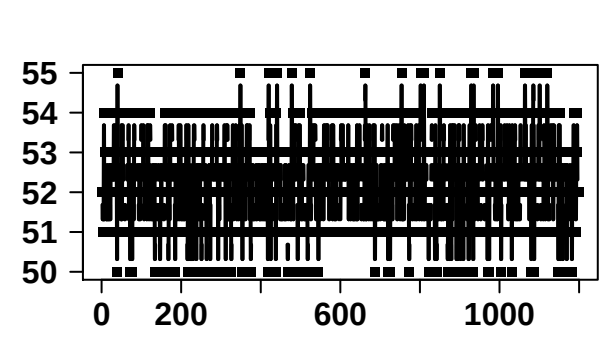

nb days: 0.2 freq: 6.8 min
100
95
90
85
0
10
20
30
40
beta, [CN] / Points @ x s

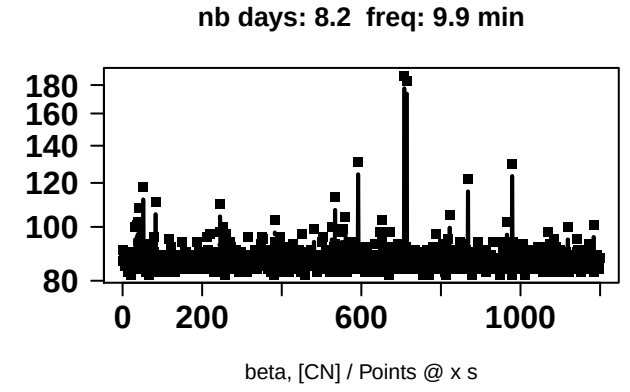

nb days: 0.2 freq: 40 min
0.110
0.109
0.108
0.107
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

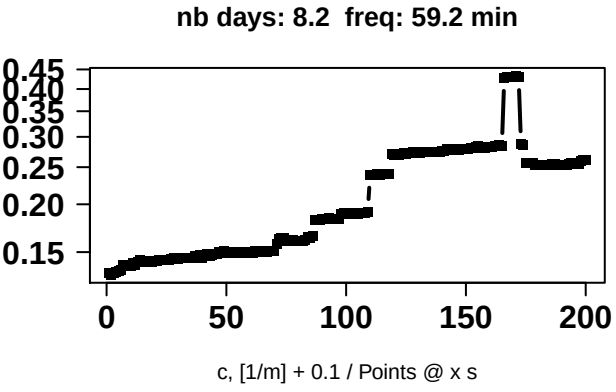

2014−02−11 23:10:25 2014−02−20 04:30:27
1060
1040
1020
1000
980
960
0
500
1000
1500
Pressure in

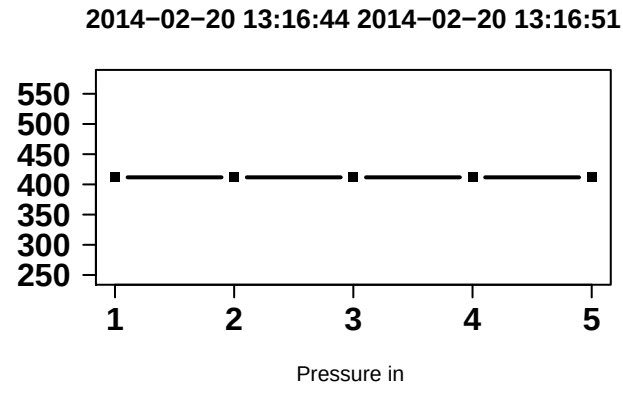

black 0.077 red 0.47
Seawater potential density anomaly
Seawater density − 1000
27.54
27.52
27.50
27.48
32.3
32.1
31.9
0
50
100
150
200

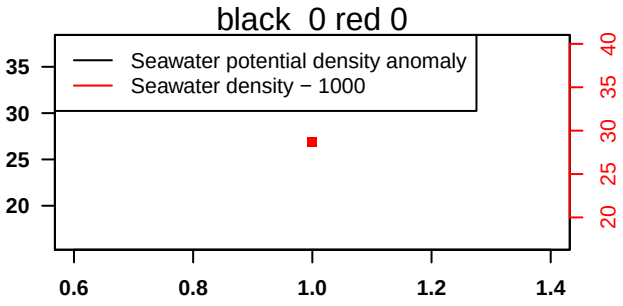

lovbio006b_051_00_06.txt
75
74
73
72
71
70
69
68
0
200
600
1000
CDOM, [CN] / Points @ x s

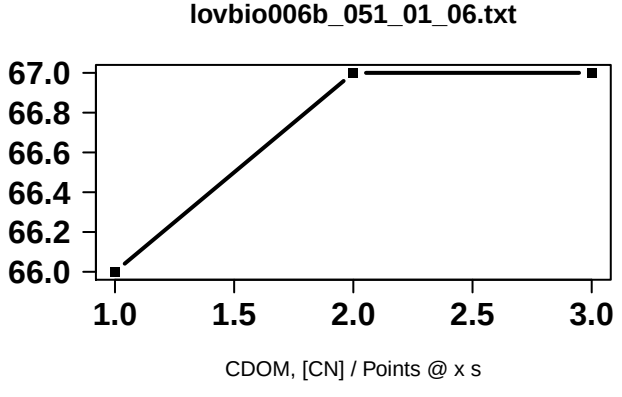

55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

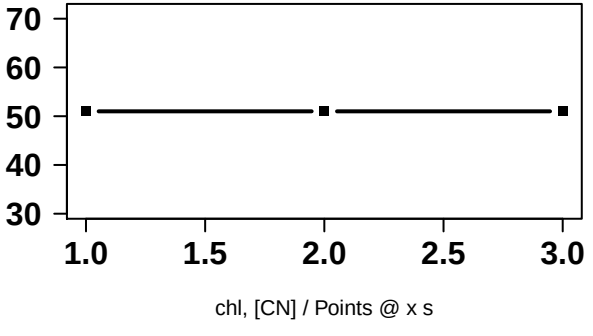

nb days: 8.2 freq: 9.9 min
180
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

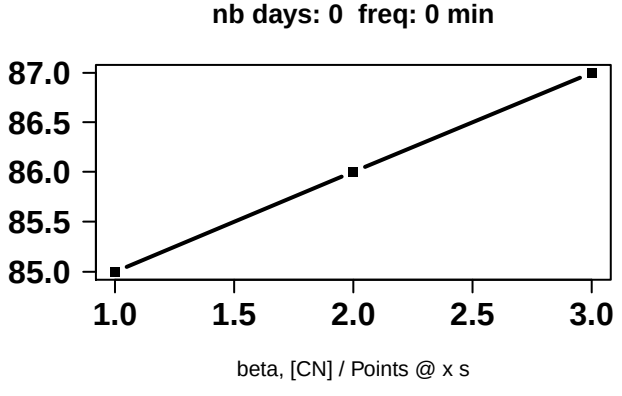

nb days: 8.2 freq: 59.2 min
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

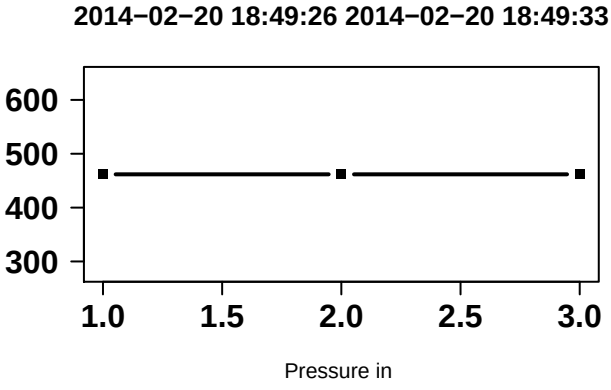

2014−02−20 13:16:44 2014−02−20 13:16:51
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

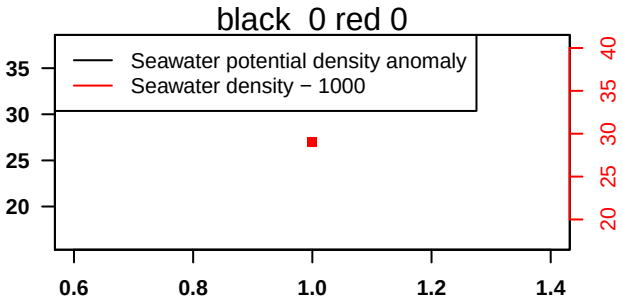

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

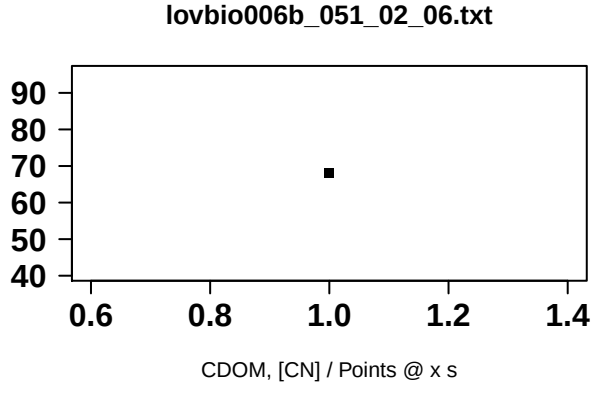

lovbio006b_051_01_06.txt
67.0
66.8
66.6
66.4
66.2
66.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

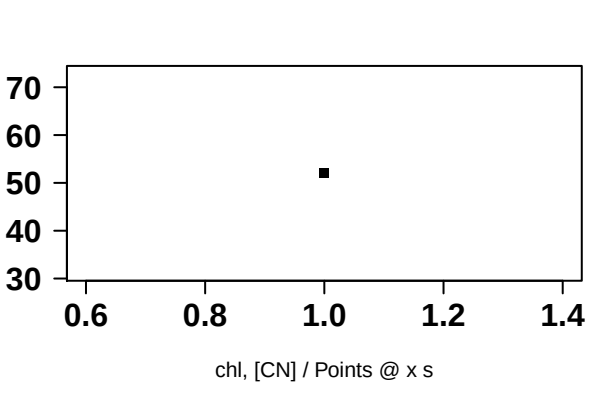

70
60
50
40
30
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

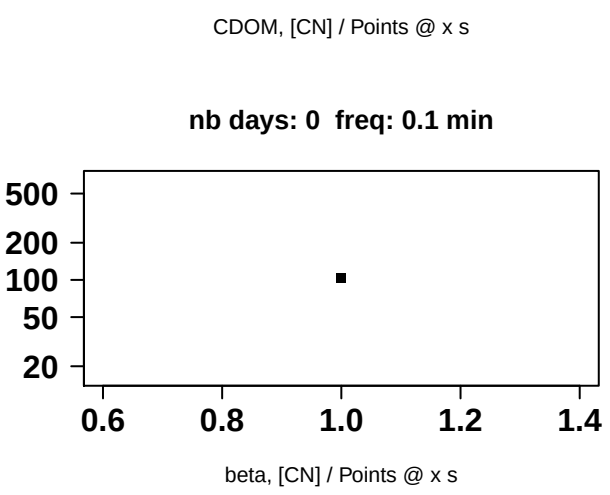

nb days: 0 freq: 0 min
87.0
86.5
86.0
85.5
85.0
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

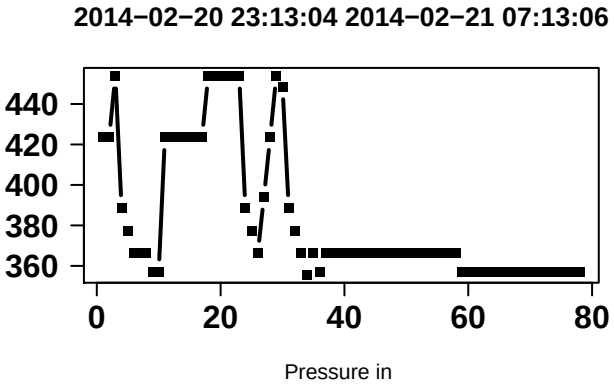

2014−02−20 18:49:26 2014−02−20 18:49:33
600
500
400
300
1.0
1.5
2.0
2.5
3.0
Pressure in

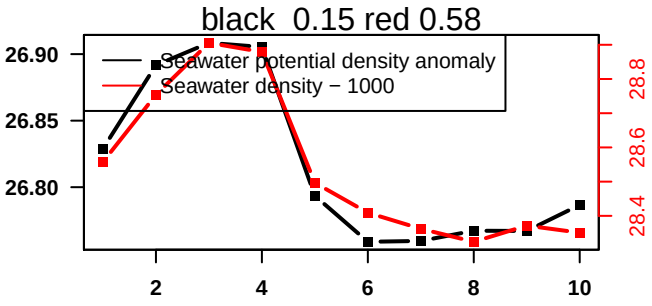

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

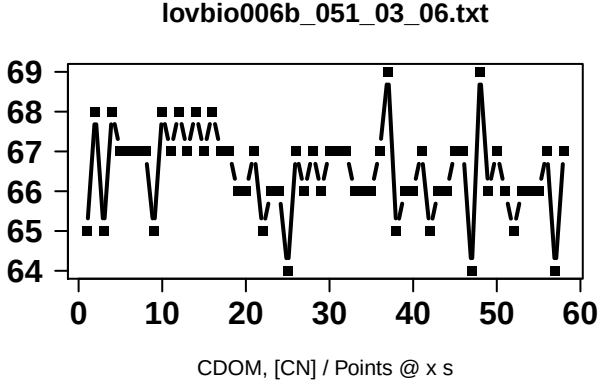

lovbio006b_051_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

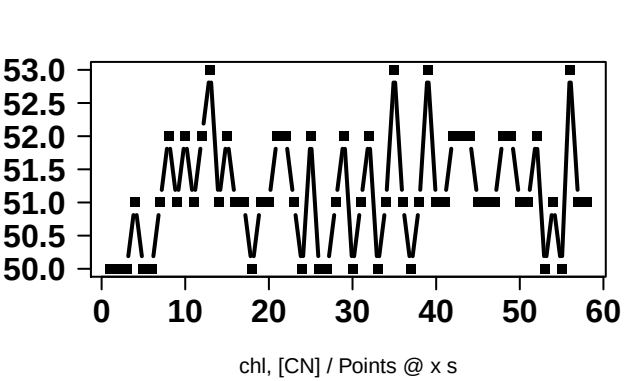

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

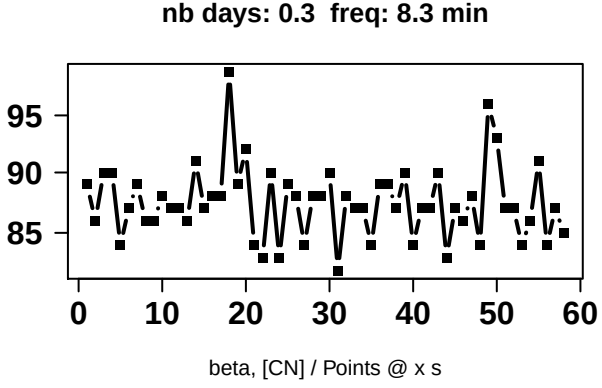

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

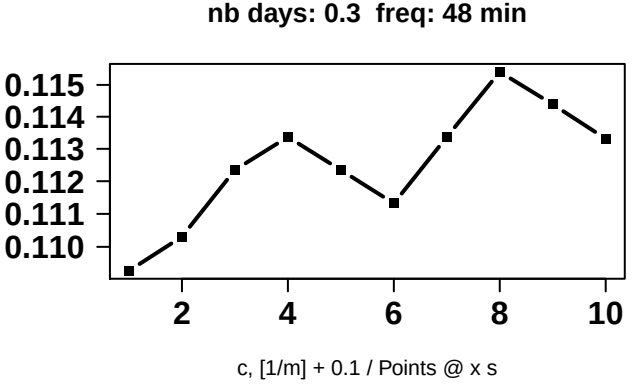

2014−02−20 23:13:04 2014−02−21 07:13:06
440
420
400
380
360
0
20
40
60
80
Pressure in

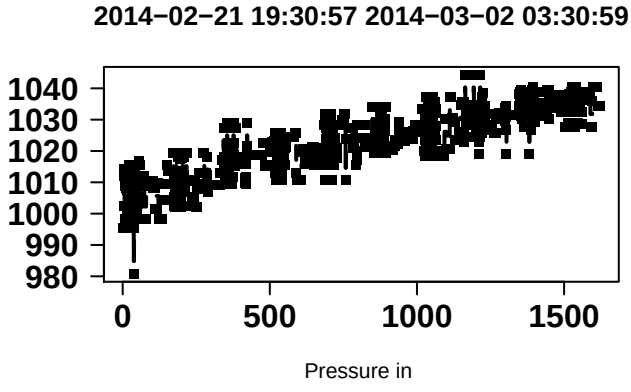

black 0.15 red 0.58
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
28.8
28.6
28.4
2
4
6
8
10

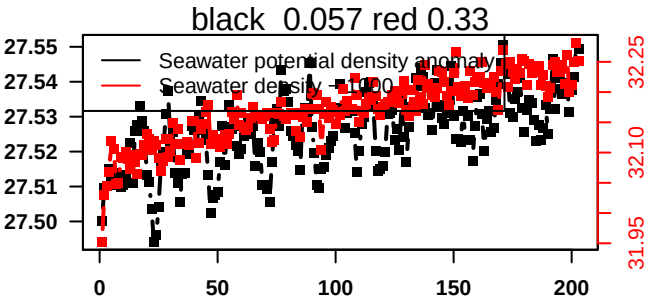

lovbio006b_051_03_06.txt
69
68
67
66
65
64
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

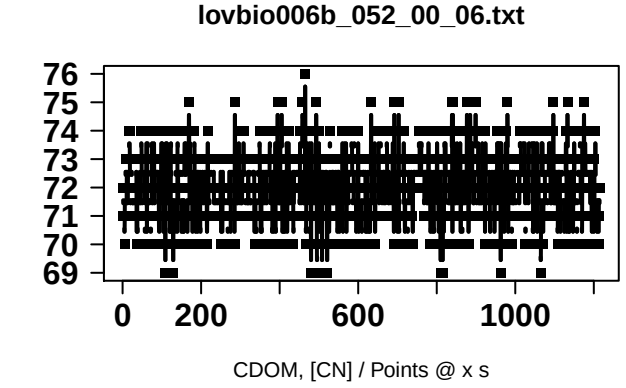

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

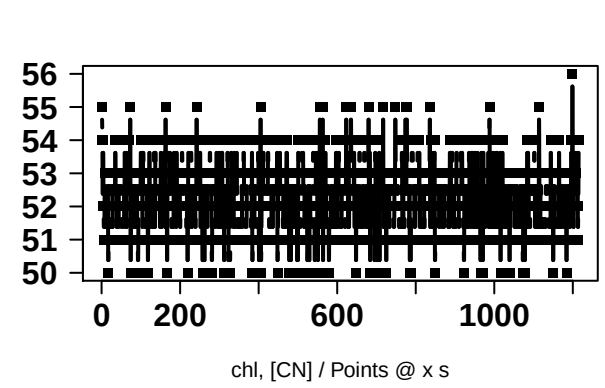

nb days: 0.3 freq: 8.3 min
95
90
85
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

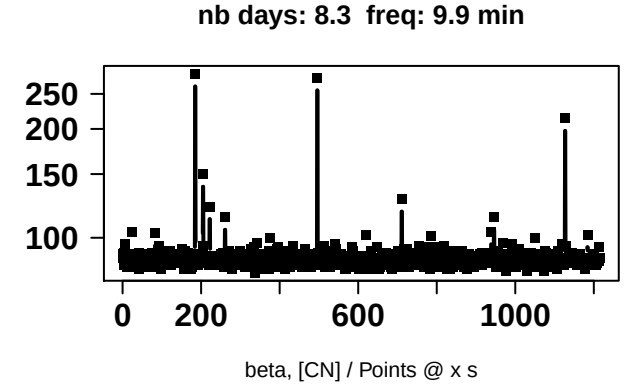

nb days: 0.3 freq: 48 min
0.115
0.114
0.113
0.112
0.111
0.110
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

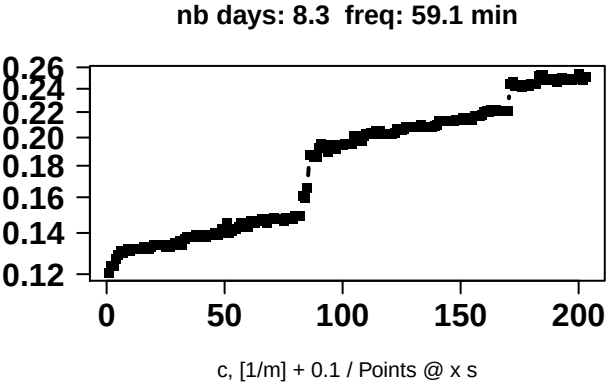

2014−02−21 19:30:57 2014−03−02 03:30:59
1040
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

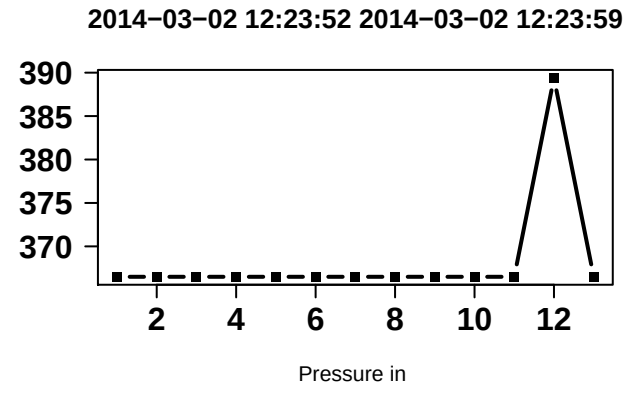

black 0.057 red 0.33
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
27.50
32.25
32.10
31.95
0
50
100
150
200

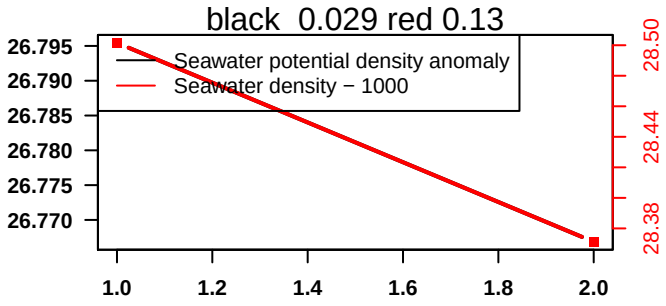

lovbio006b_052_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

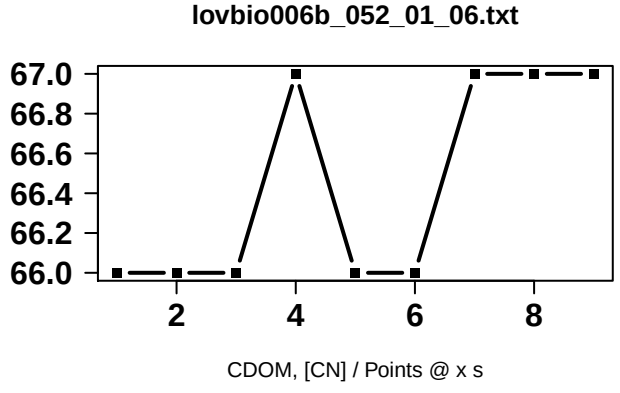

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

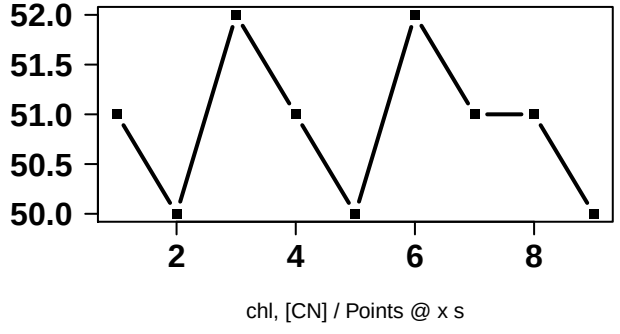

nb days: 8.3 freq: 9.9 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

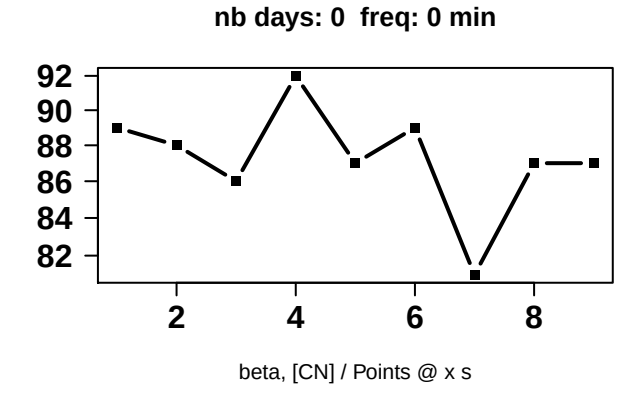

nb days: 8.3 freq: 59.1 min
0.26
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

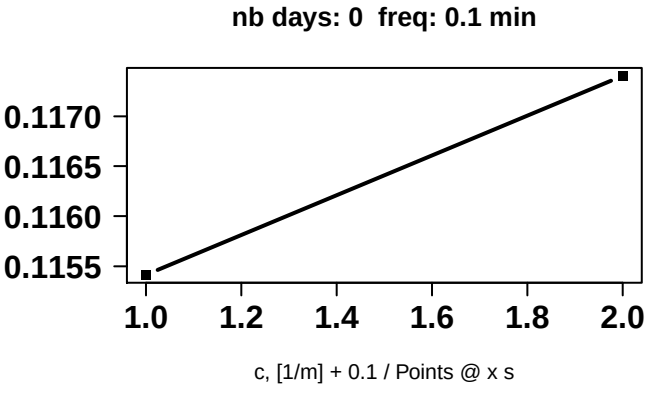

2014−03−02 12:23:52 2014−03−02 12:23:59
390
385
380
375
370
2
4
6
8
10
12
Pressure in

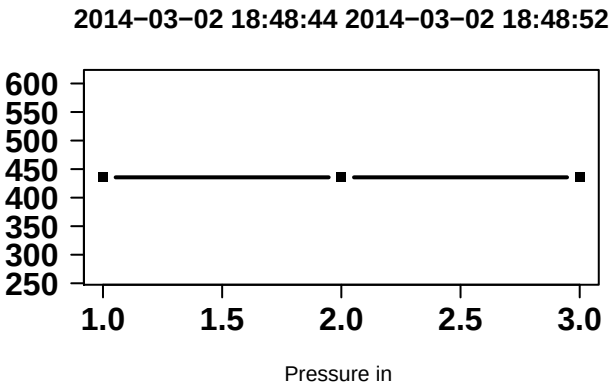

black 0.029 red 0.13
Seawater potential density anomaly
Seawater density − 1000
26.795
26.790
26.785
26.780
26.775
26.770
28.50
28.44
28.38
1.0
1.2
1.4
1.6
1.8
2.0

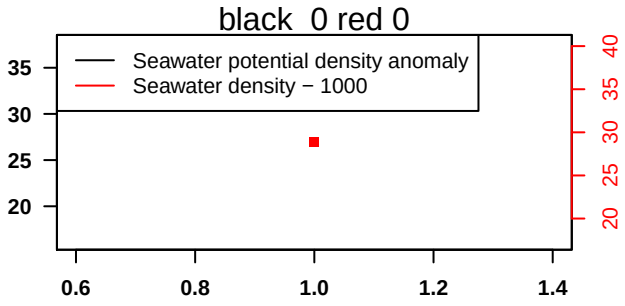

lovbio006b_052_01_06.txt
67.0
66.8
66.6
66.4
66.2
66.0
2
4
6
8
CDOM, [CN] / Points @ x s

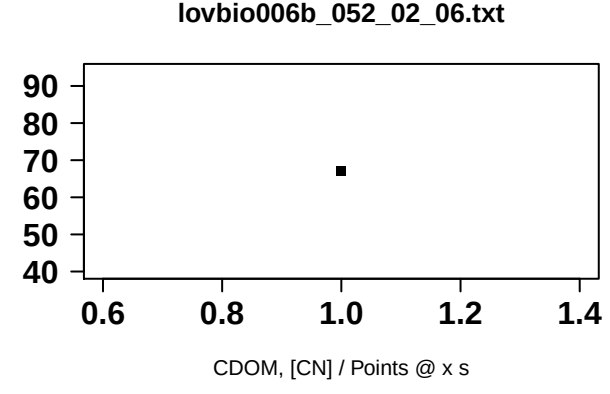

52.0
51.5
51.0
50.5
50.0
2
4
6
8
chl, [CN] / Points @ x s

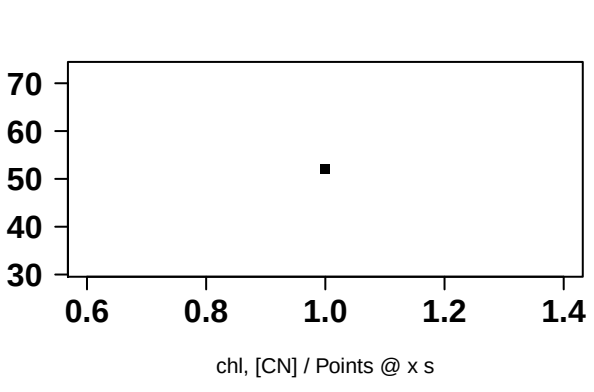

nb days: 0 freq: 0 min
92
90
88
86
84
82
2
4
6
8
beta, [CN] / Points @ x s

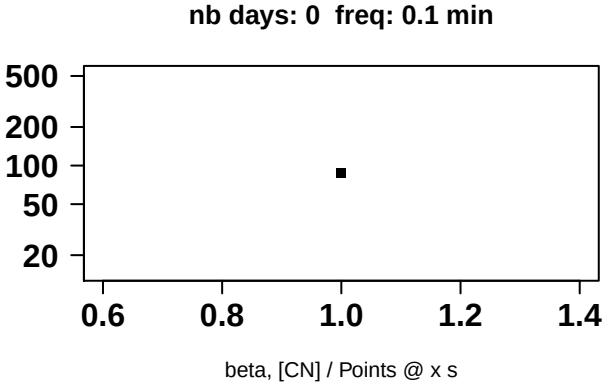

nb days: 0 freq: 0.1 min
0.1170
0.1165
0.1160
0.1155
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

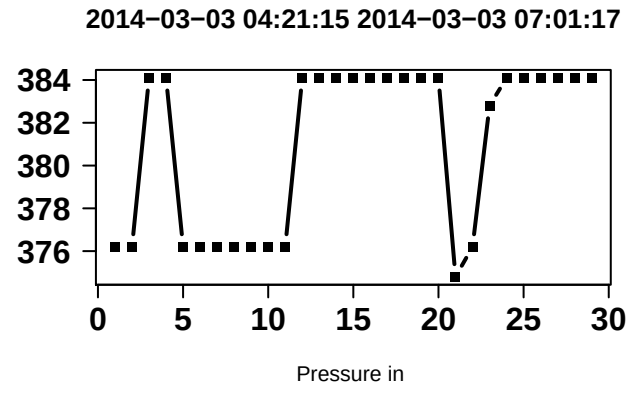

2014−03−02 18:48:44 2014−03−02 18:48:52
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

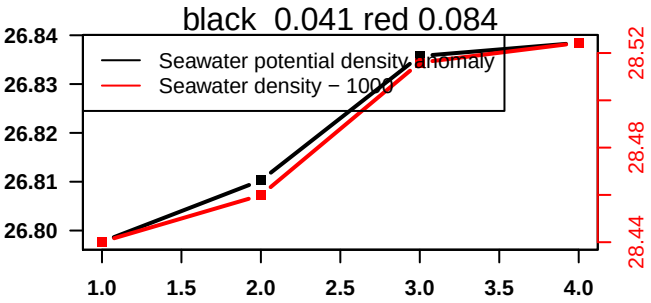

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

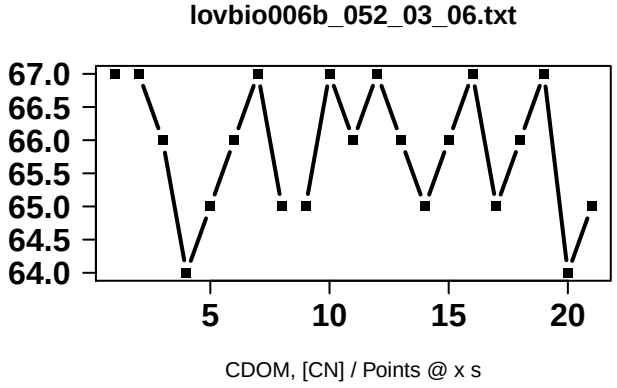

lovbio006b_052_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

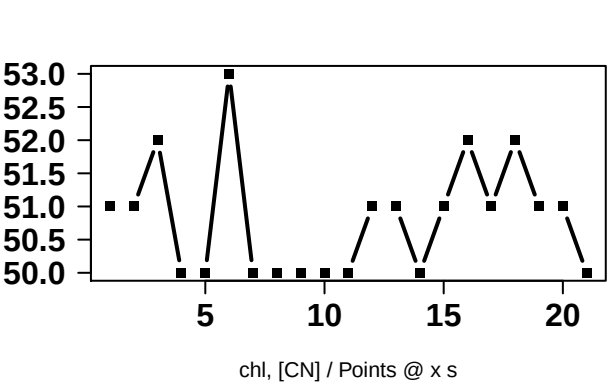

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

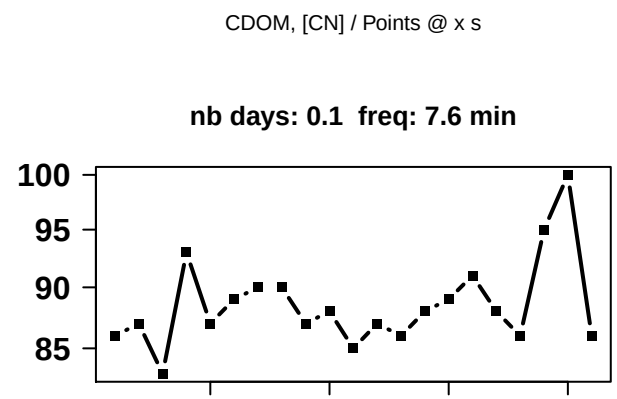

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

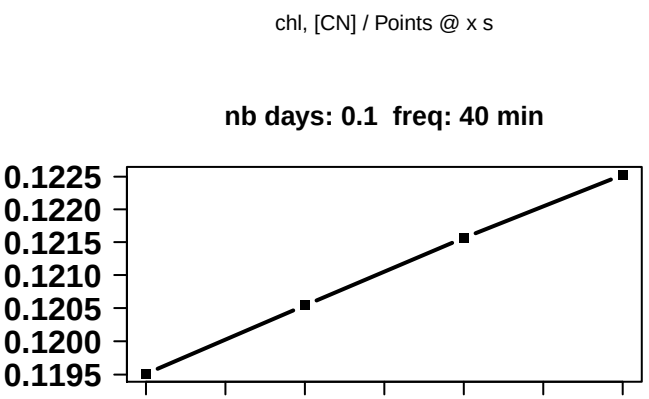

2014−03−03 04:21:15 2014−03−03 07:01:17
384
382
380
378
376
0
5
10
15
20
25
30
Pressure in

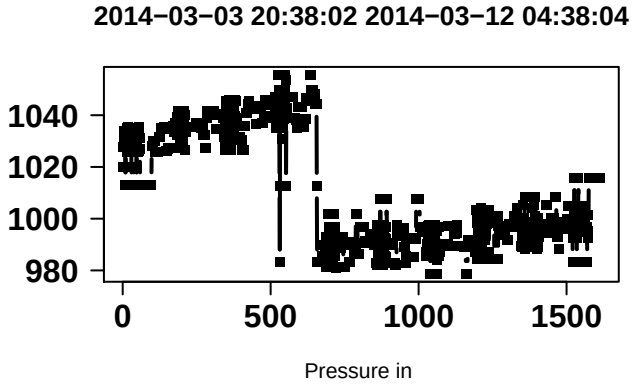

black 0.041 red 0.084
Seawater potential density anomaly
Seawater density − 1000
26.84
26.83
26.82
26.81
26.80
28.52
28.48
28.44
1.0
1.5
2.0
2.5
3.0
3.5
4.0

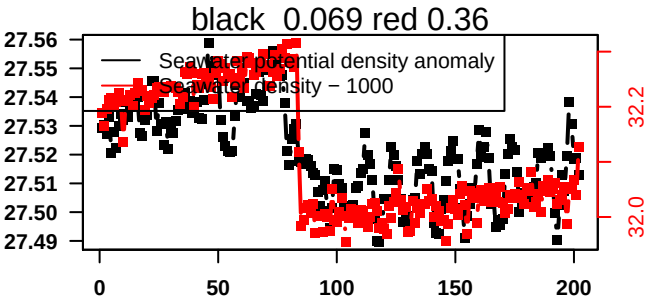

lovbio006b_052_03_06.txt
67.0
66.5
66.0
65.5
65.0
64.5
64.0
5
10
15
20
CDOM, [CN] / Points @ x s

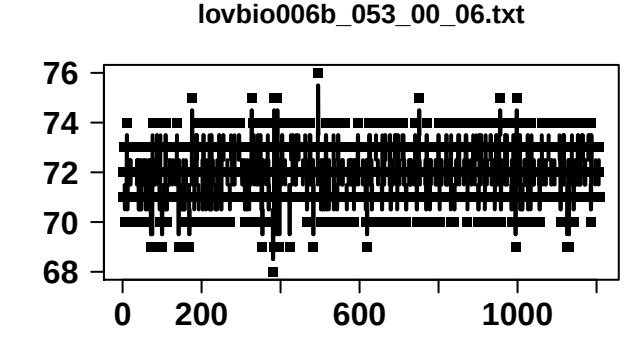

53.0
52.5
52.0
51.5
51.0
50.5
50.0
5
10
15
20
chl, [CN] / Points @ x s

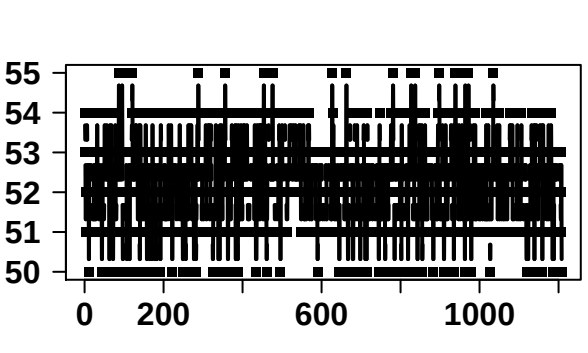

nb days: 0.1 freq: 7.6 min
100
95
90
85
5
10
15
20
beta, [CN] / Points @ x s

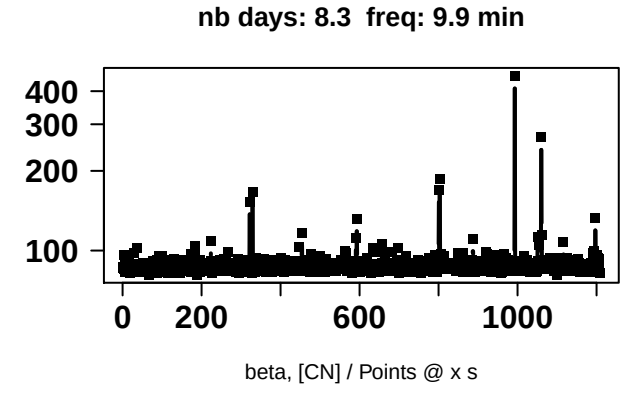

nb days: 0.1 freq: 40 min
0.1225
0.1220
0.1215
0.1210
0.1205
0.1200
0.1195
1.0
1.5
2.0
2.5
3.0
3.5
4.0
c, [1/m] + 0.1 / Points @ x s

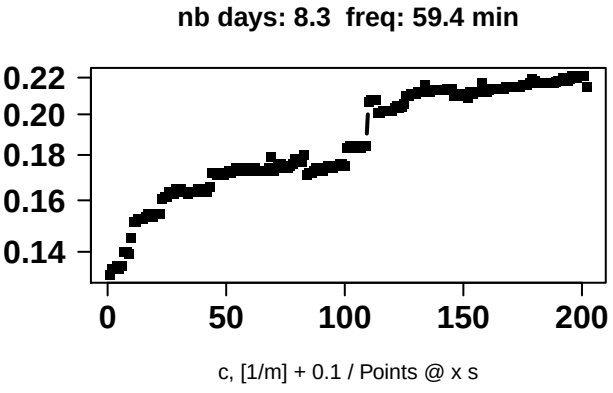

2014−03−03 20:38:02 2014−03−12 04:38:04
1040
1020
1000
980
0
500
1000
1500
Pressure in

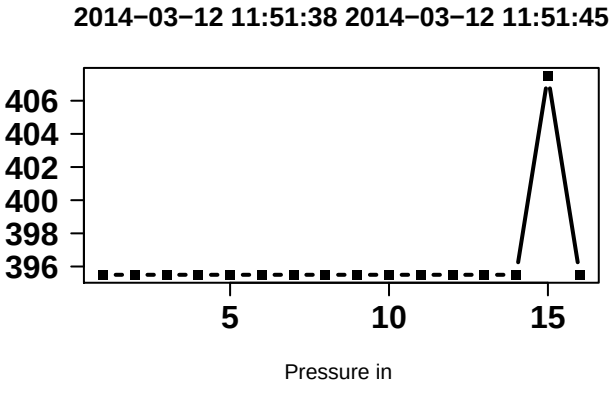

black 0.069 red 0.36
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
27.51
27.50
27.49
32.2
32.0
0
50
100
150
200

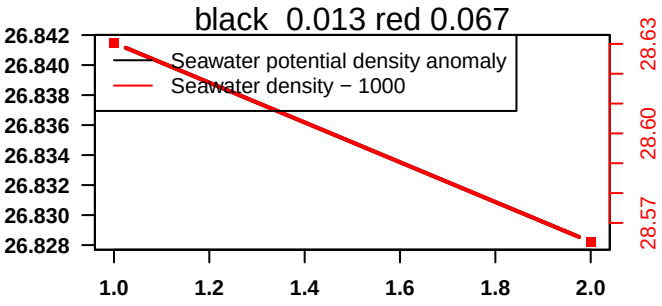

lovbio006b_053_00_06.txt
76
74
72
70
68
0
200
600
1000
CDOM, [CN] / Points @ x s

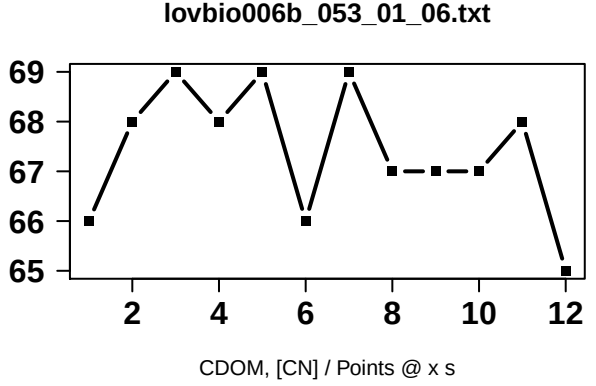

55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

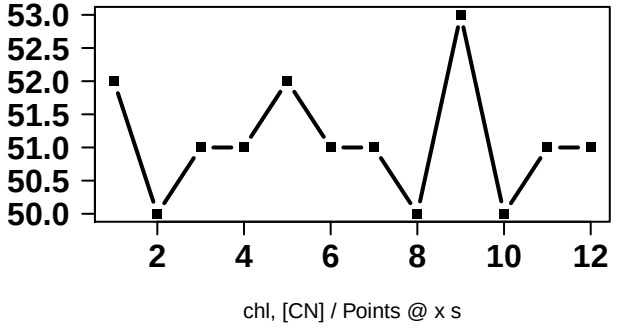

nb days: 8.3 freq: 9.9 min
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

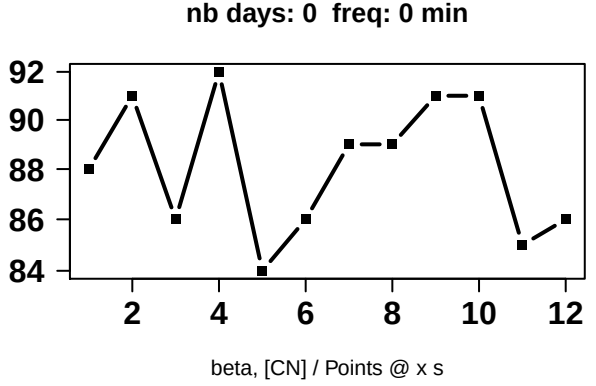

nb days: 8.3 freq: 59.4 min
0.22
0.20
0.18
0.16
0.14
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

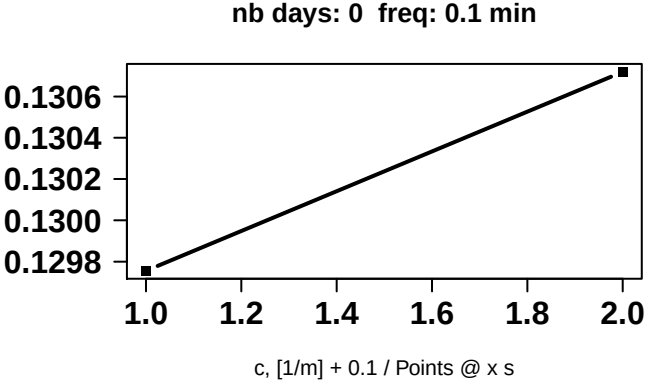

2014−03−12 11:51:38 2014−03−12 11:51:45
406
404
402
400
398
396
5
10
15
Pressure in

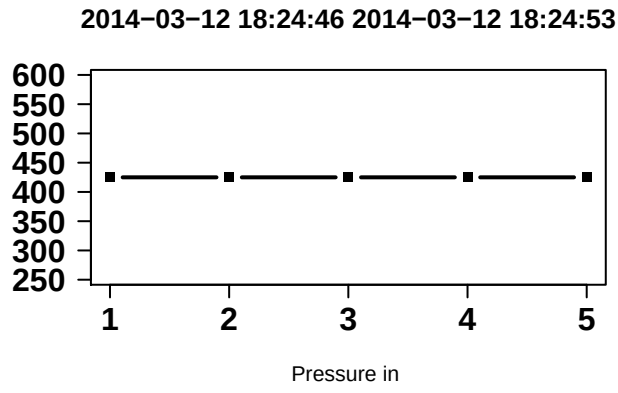

black 0.013 red 0.067
Seawater potential density anomaly
Seawater density − 1000
26.842
26.840
26.838
26.836
26.834
26.832
26.830
26.828
28.63
28.60
28.57
1.0
1.2
1.4
1.6
1.8
2.0

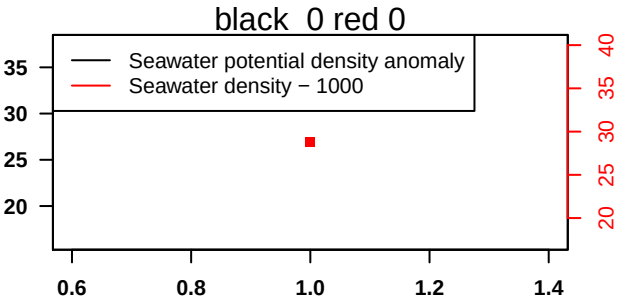

lovbio006b_053_01_06.txt
69
68
67
66
65
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

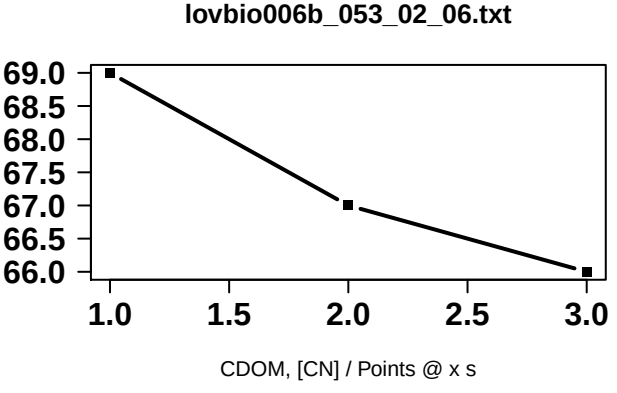

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
12
chl, [CN] / Points @ x s

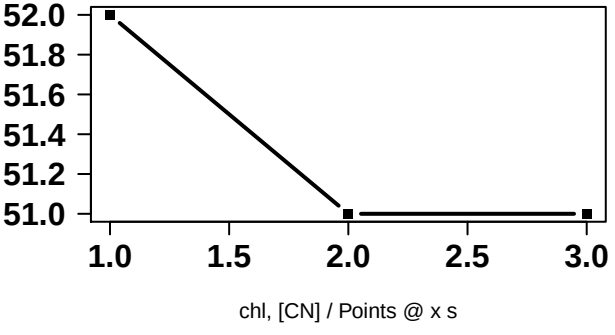

nb days: 0 freq: 0 min
92
90
88
86
84
2
4
6
8
10
12
beta, [CN] / Points @ x s

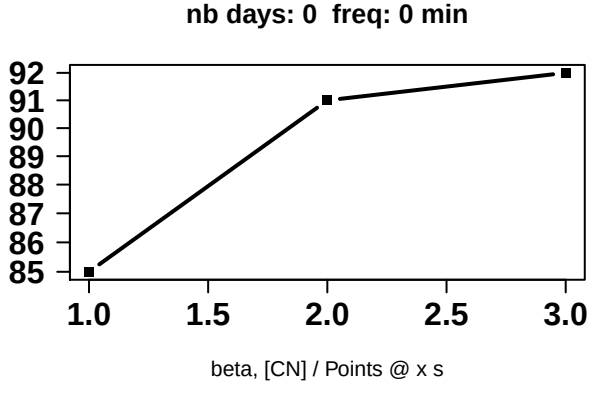

nb days: 0 freq: 0.1 min
0.1306
0.1304
0.1302
0.1300
0.1298
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

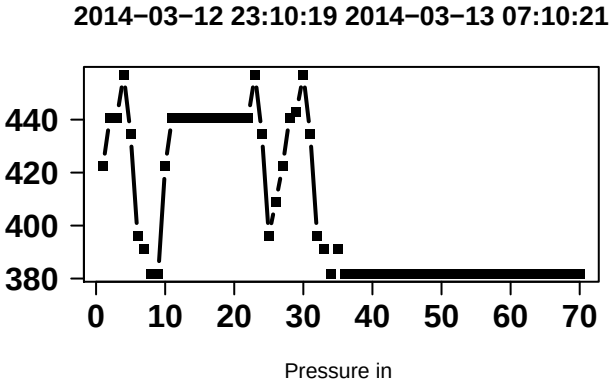

2014−03−12 18:24:46 2014−03−12 18:24:53
600
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

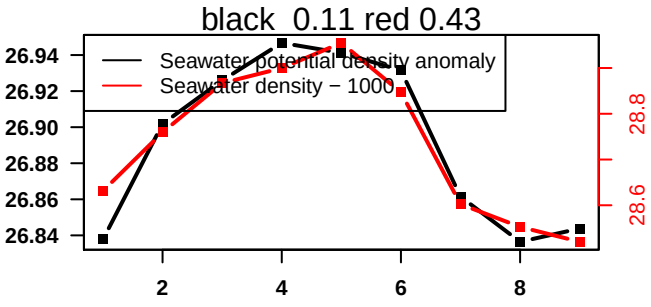

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

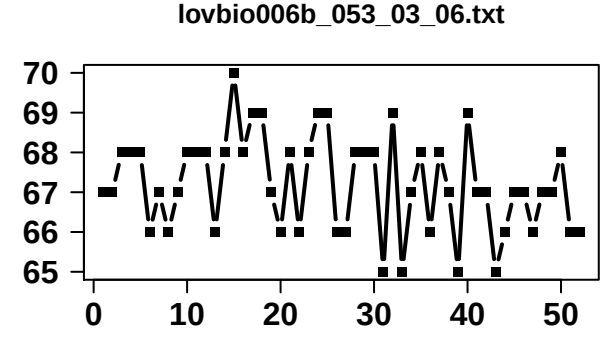

lovbio006b_053_02_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

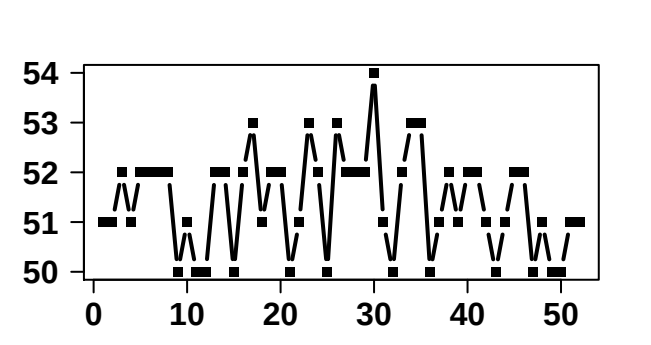

52.0
51.8
51.6
51.4
51.2
51.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

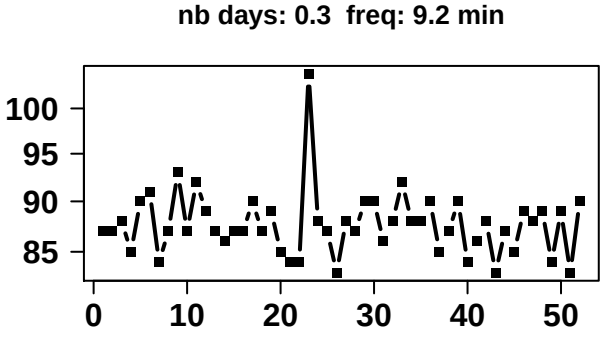

nb days: 0 freq: 0 min
92
91
90
89
88
87
86
85
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

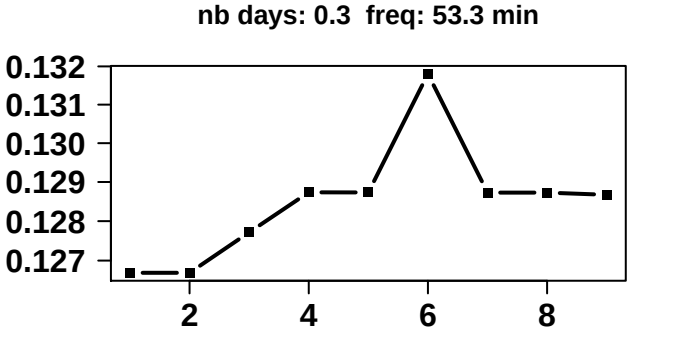

2014−03−12 23:10:19 2014−03−13 07:10:21
440
420
400
380
0
10
20
30
40
50
60
70
Pressure in

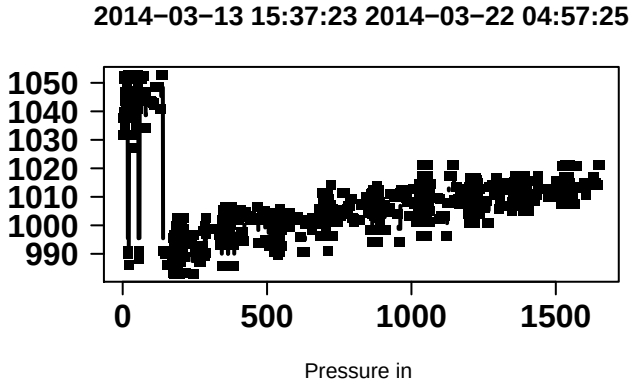

black 0.11 red 0.43
Seawater potential density anomaly
Seawater density − 1000
26.94
26.92
26.90
26.88
26.86
26.84
28.8
28.6
2
4
6
8

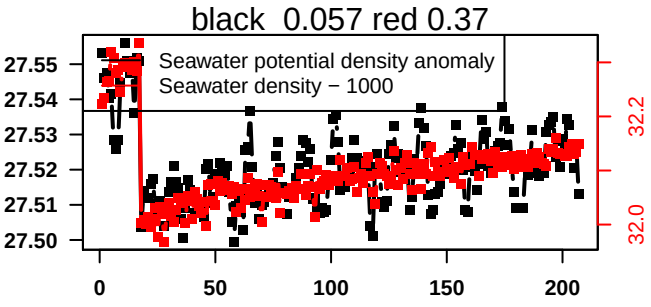

lovbio006b_053_03_06.txt
70
69
68
67
66
65
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

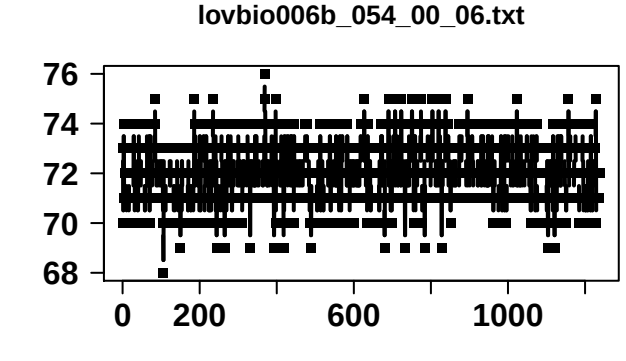

54
53
52
51
50
0
10
20
30
40
50
chl, [CN] / Points @ x s

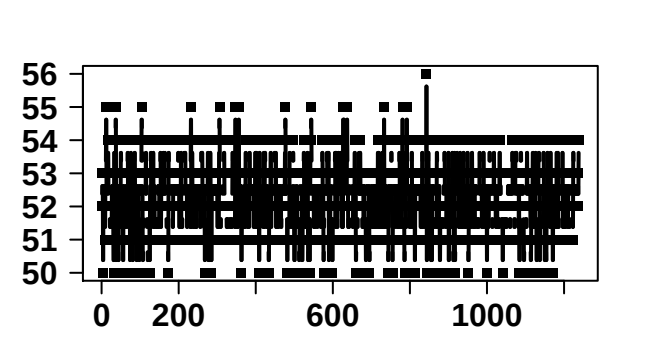

nb days: 0.3 freq: 9.2 min
100
95
90
85
0
10
20
30
40
50
beta, [CN] / Points @ x s

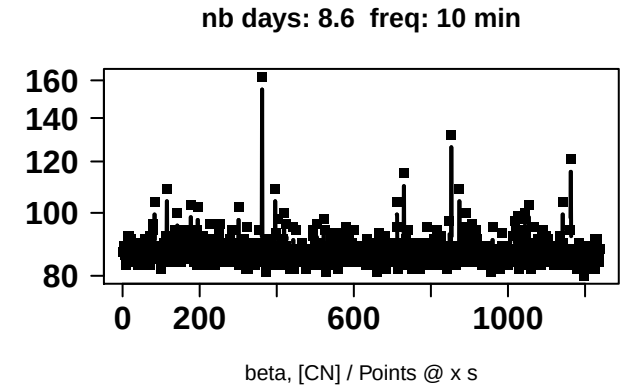

nb days: 0.3 freq: 53.3 min
0.132
0.131
0.130
0.129
0.128
0.127
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

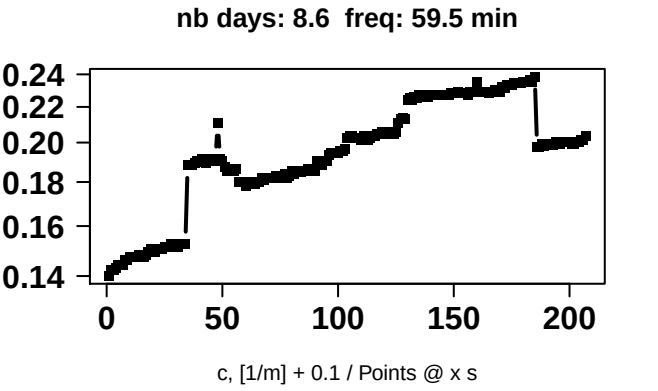

2014−03−13 15:37:23 2014−03−22 04:57:25
1050
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

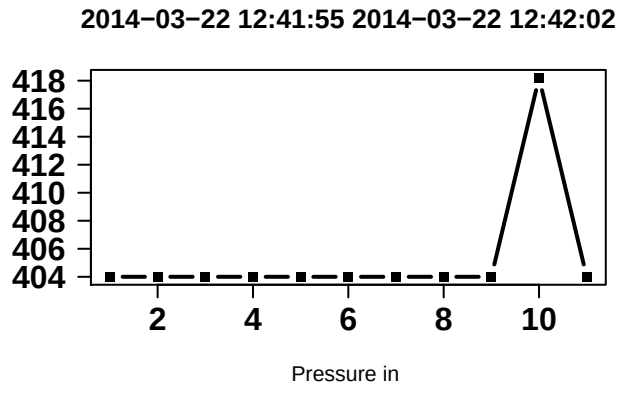

black 0.057 red 0.37
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
27.50
32.2
32.0
0
50
100
150
200

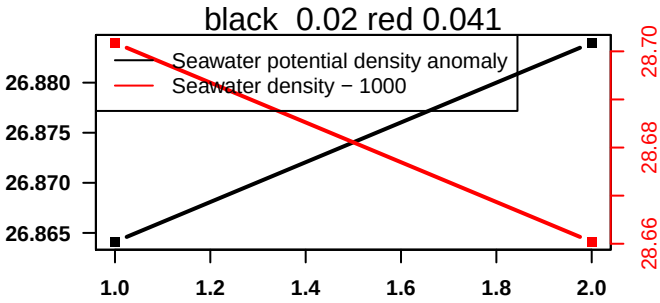

lovbio006b_054_00_06.txt
76
74
72
70
68
0
200
600
1000
CDOM, [CN] / Points @ x s

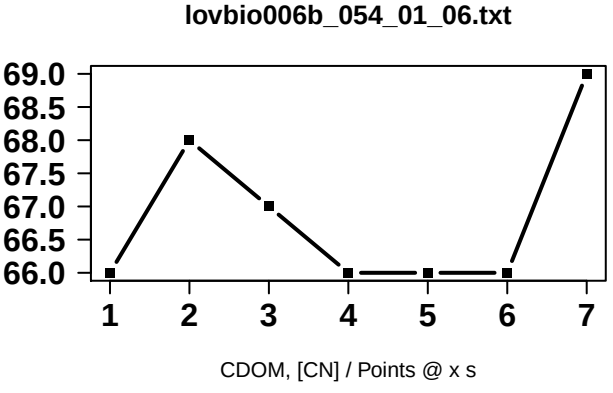

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

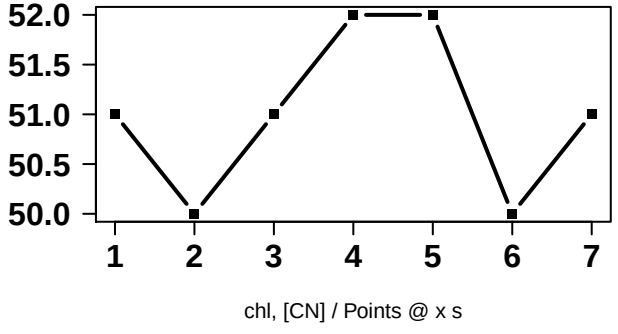

nb days: 8.6 freq: 10 min
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

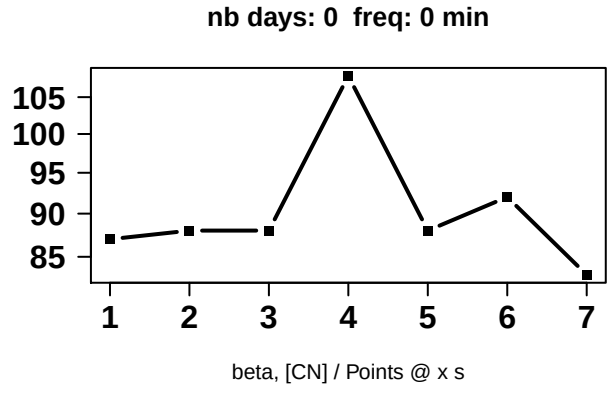

nb days: 8.6 freq: 59.5 min
0.24
0.22
0.20
0.18
0.16
0.14
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

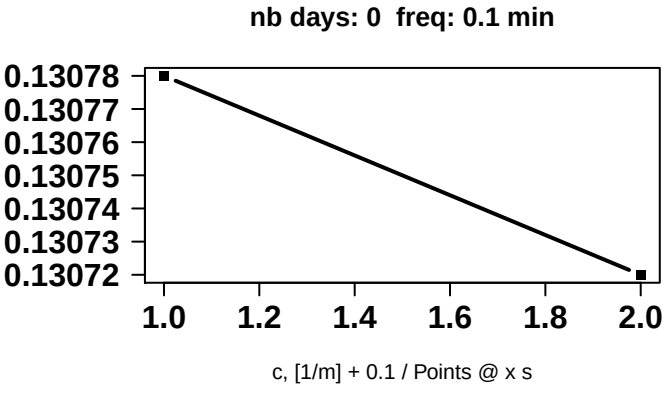

2014−03−22 12:41:55 2014−03−22 12:42:02
418
416
414
412
410
408
406
404
2
4
6
8
10
Pressure in

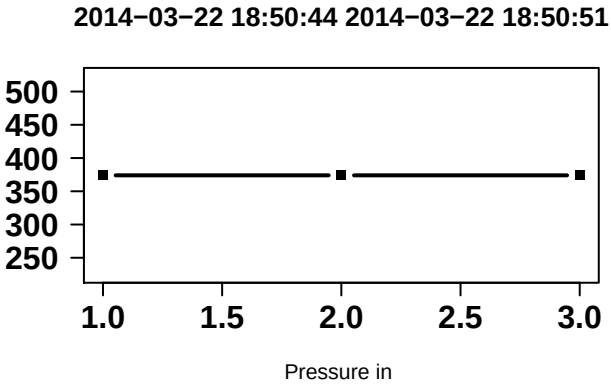

black 0.02 red 0.041
Seawater potential density anomaly
Seawater density − 1000
26.880
26.875
26.870
26.865
1.0
1.2
1.4
1.6
1.8
2.0
28.70
28.68
28.66

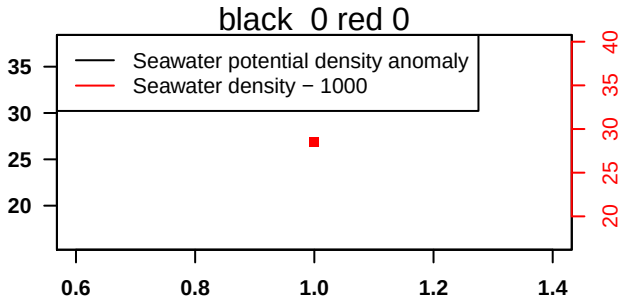

lovbio006b_054_01_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

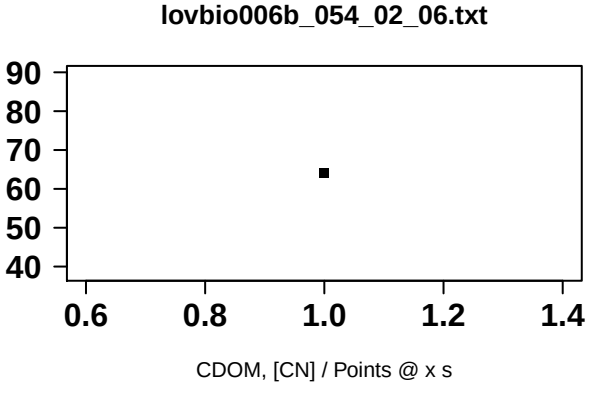

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

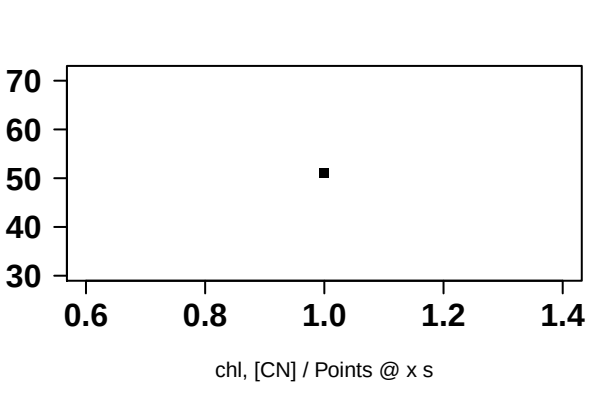

nb days: 0 freq: 0 min
105
100
95
90
85
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

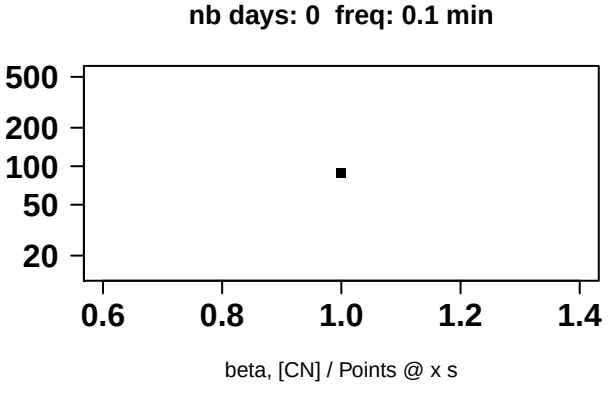

nb days: 0 freq: 0.1 min
0.13078
0.13077
0.13076
0.13075
0.13074
0.13073
0.13072
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

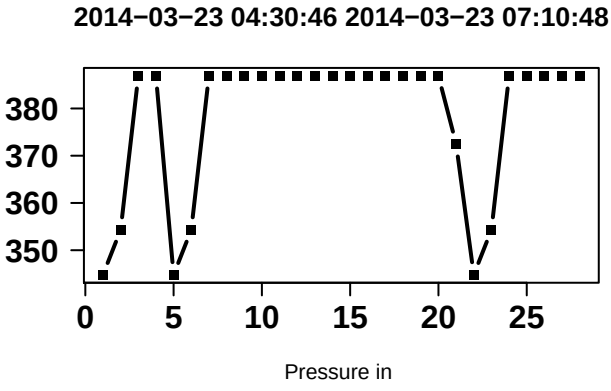

2014−03−22 18:50:44 2014−03−22 18:50:51
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

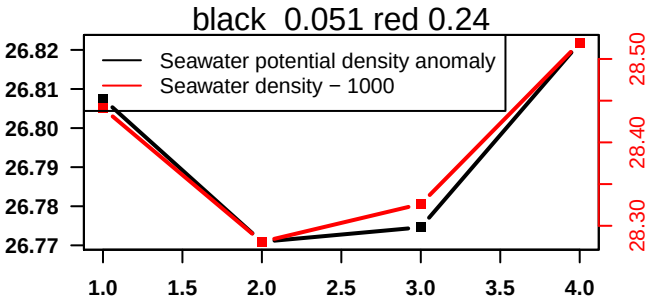

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

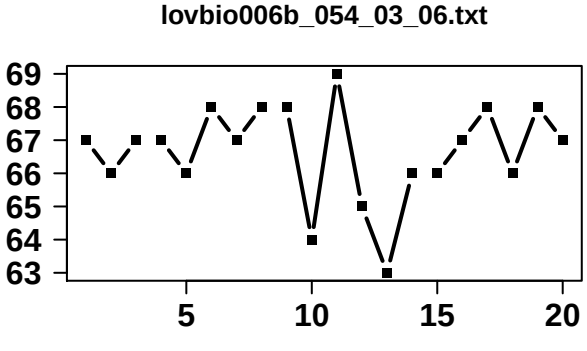

lovbio006b_054_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

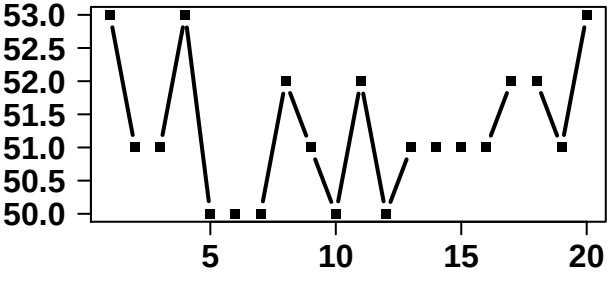

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

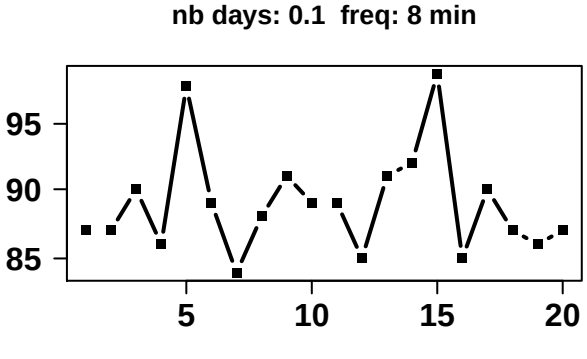

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

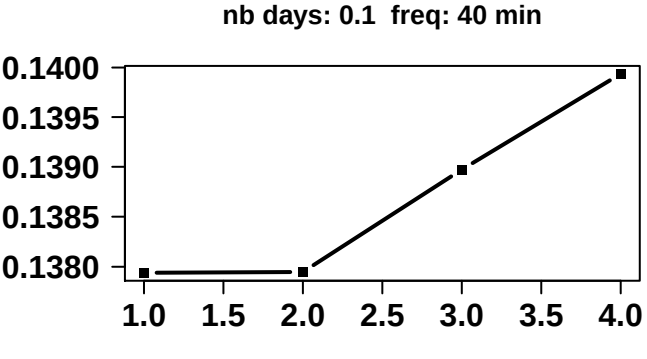

2014−03−23 04:30:46 2014−03−23 07:10:48
380
370
360
350
0
5
10
15
20
25
Pressure in

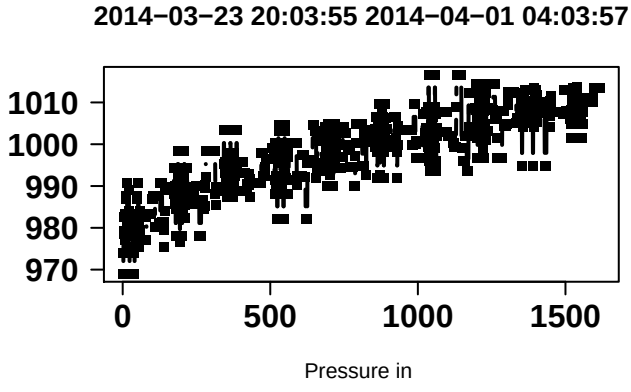

black 0.051 red 0.24
Seawater potential density anomaly
Seawater density − 1000
26.82
26.81
26.80
26.79
26.78
26.77
28.50
28.40
28.30
1.0
1.5
2.0
2.5
3.0
3.5
4.0

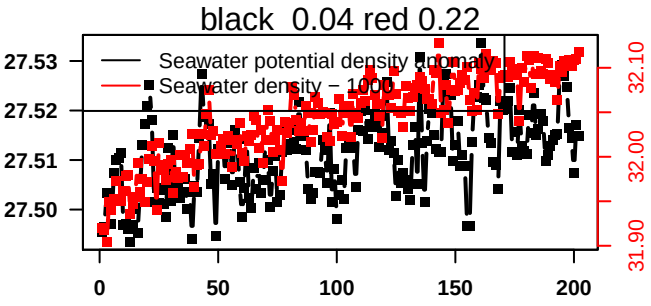

lovbio006b_054_03_06.txt
69
68
67
66
65
64
63
5
10
15
20
CDOM, [CN] / Points @ x s

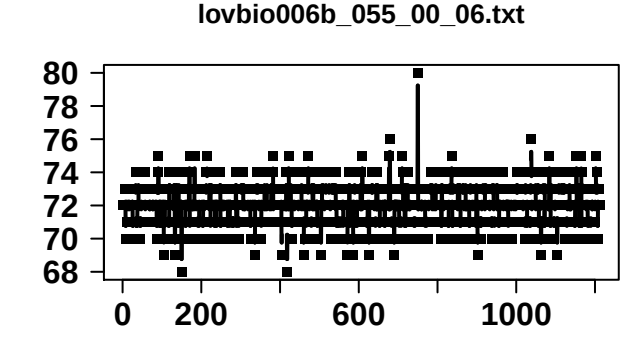

53.0
52.5
52.0
51.5
51.0
50.5
50.0
5
10
15
20
chl, [CN] / Points @ x s

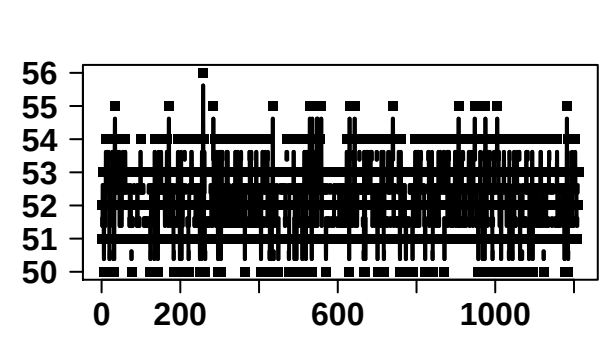

nb days: 0.1 freq: 8 min
95
90
85
5
10
15
20
beta, [CN] / Points @ x s

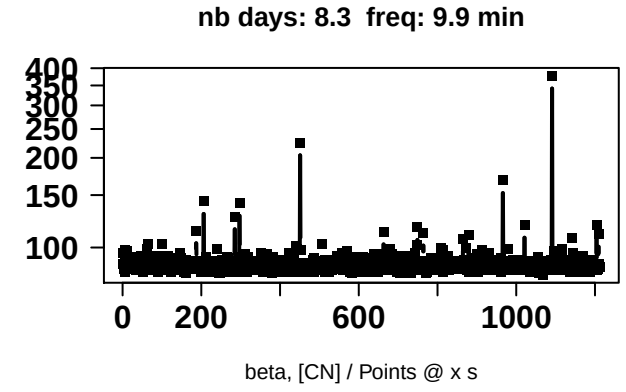

nb days: 0.1 freq: 40 min
0.1400
0.1395
0.1390
0.1385
0.1380
1.0
1.5
2.0
2.5
3.0
3.5
4.0
c, [1/m] + 0.1 / Points @ x s

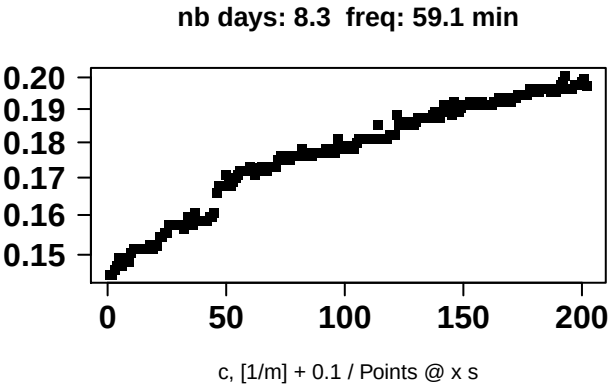

2014−03−23 20:03:55 2014−04−01 04:03:57
1010
1000
990
980
970
0
500
1000
1500
Pressure in

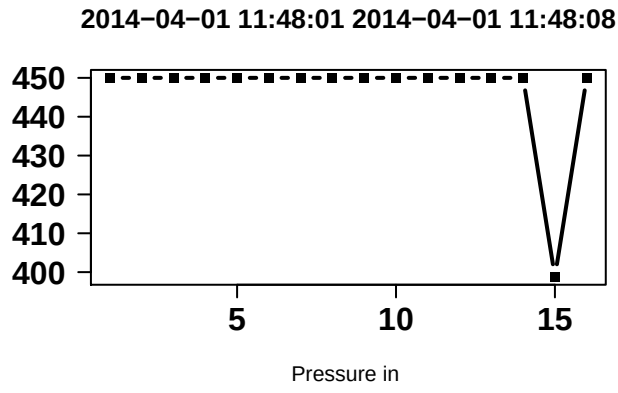

black 0.04 red 0.22
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
32.10
32.00
31.90
0
50
100
150
200

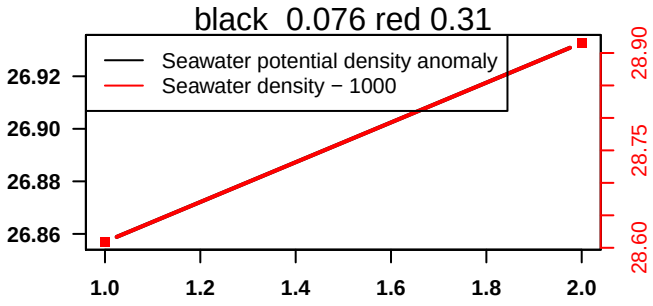

lovbio006b_055_00_06.txt
80
78
76
74
72
70
68
0
200
600
1000
CDOM, [CN] / Points @ x s

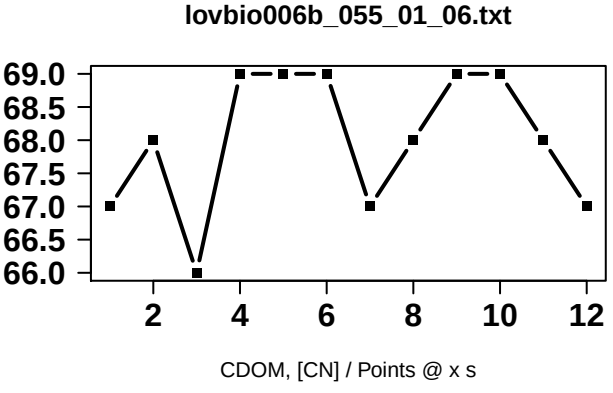

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

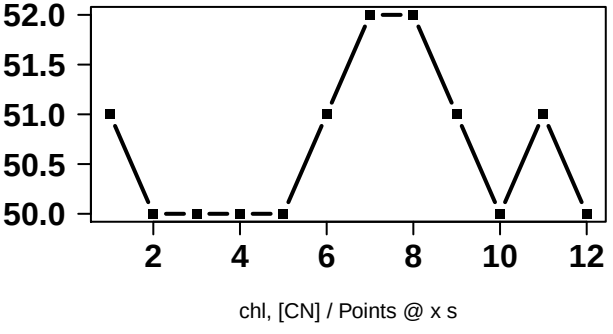

nb days: 8.3 freq: 9.9 min
400
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

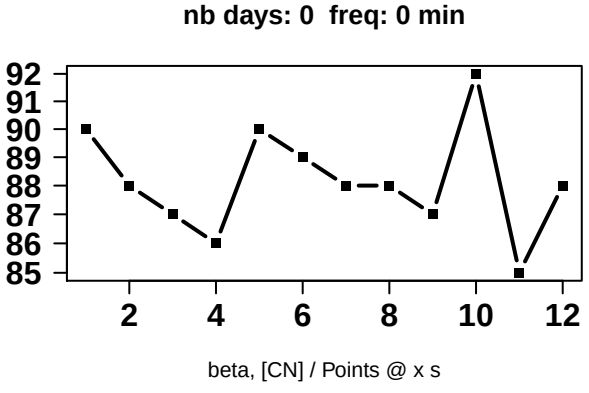

nb days: 8.3 freq: 59.1 min
0.20
0.19
0.18
0.17
0.16
0.15
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

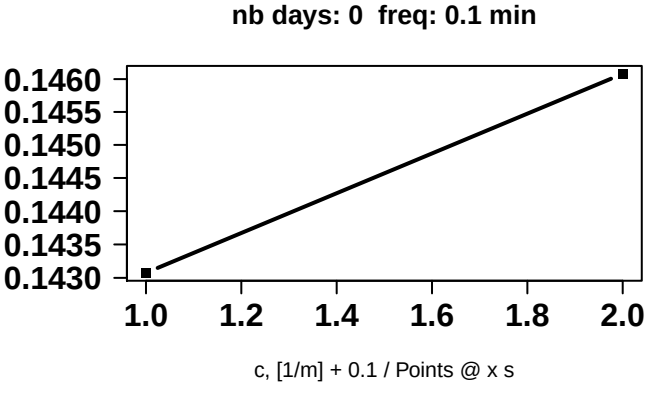

2014−04−01 11:48:01 2014−04−01 11:48:08
450
440
430
420
410
400
5
10
15
Pressure in

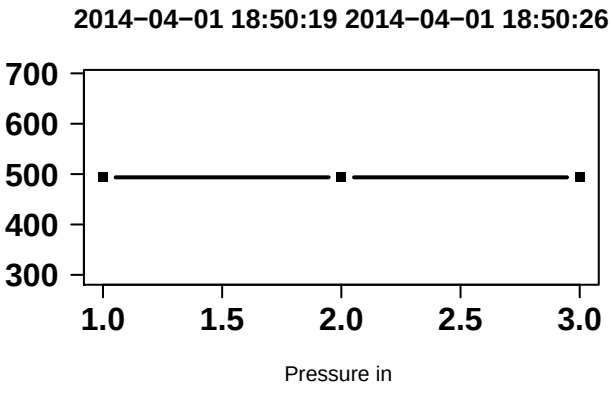

black 0.076 red 0.31
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
28.90
28.75
28.60
1.0
1.2
1.4
1.6
1.8
2.0

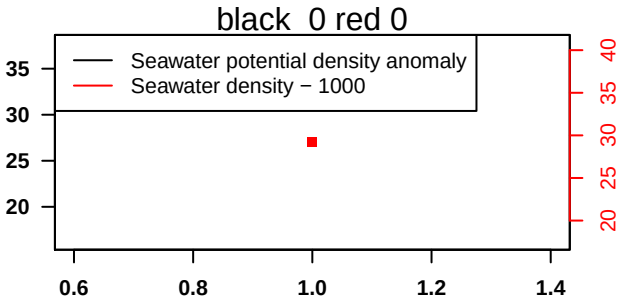

lovbio006b_055_01_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

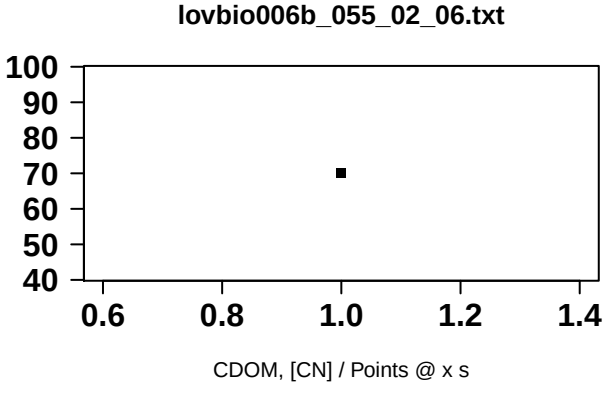

52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
12
chl, [CN] / Points @ x s

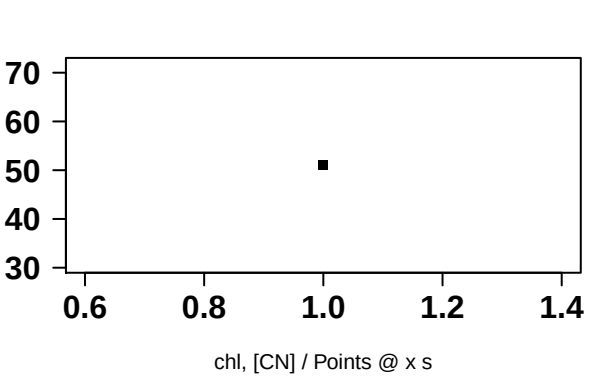

nb days: 0 freq: 0 min
92
91
90
89
88
87
86
85
2
4
6
8
10
12
beta, [CN] / Points @ x s

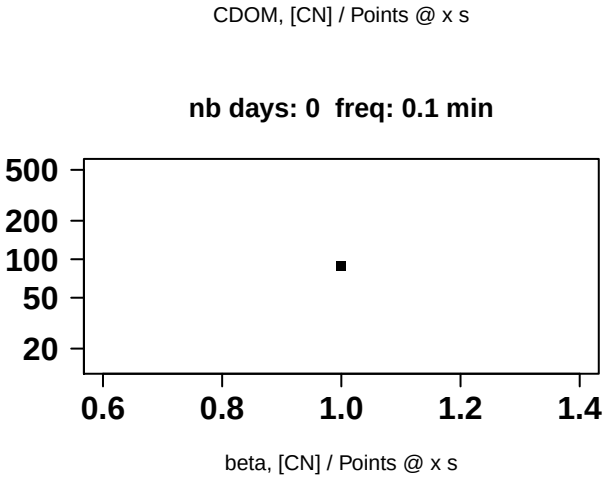

nb days: 0 freq: 0.1 min
0.1460
0.1455
0.1450
0.1445
0.1440
0.1435
0.1430
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

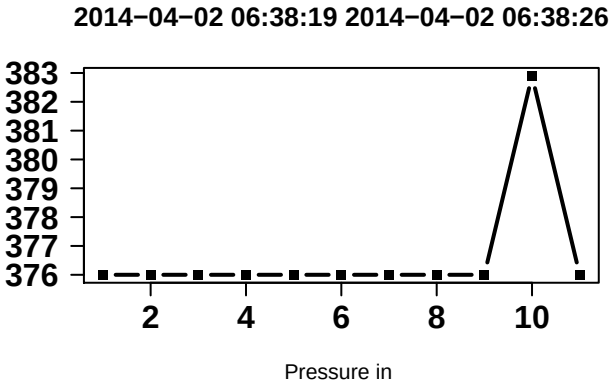

2014−04−01 18:50:19 2014−04−01 18:50:26
700
600
500
400
300
1.0
1.5
2.0
2.5
3.0
Pressure in

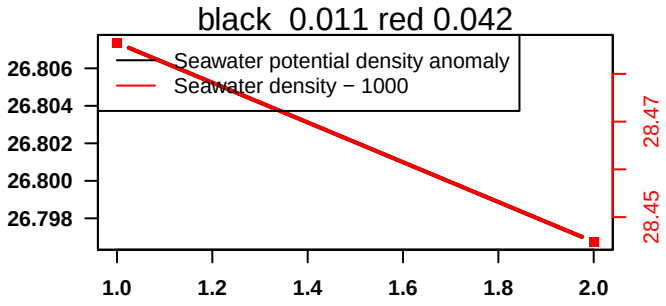

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

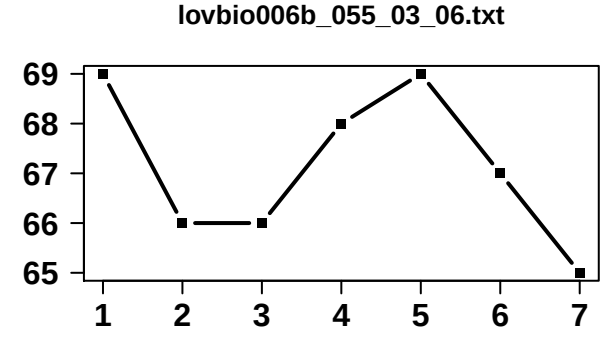

lovbio006b_055_02_06.txt
100
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

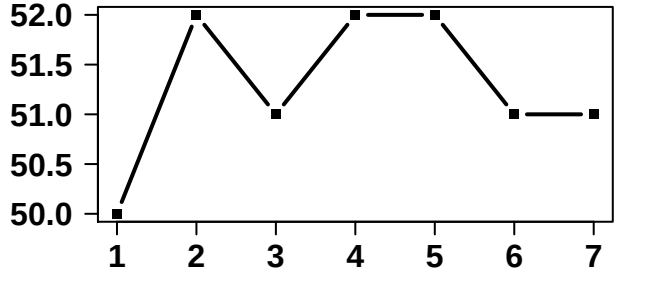

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

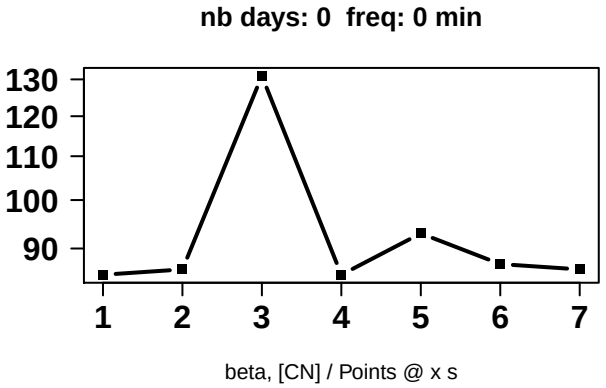

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

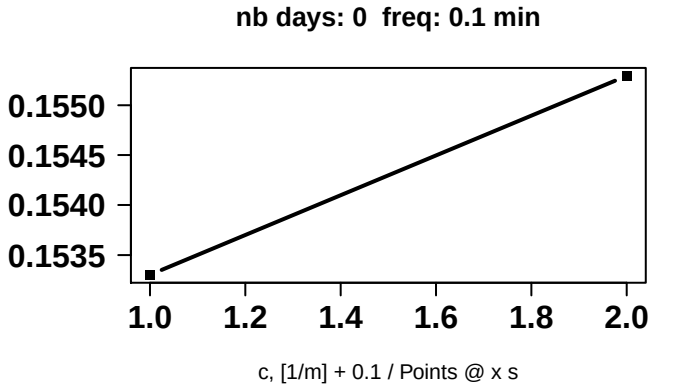

2014−04−02 06:38:19 2014−04−02 06:38:26
383
382
381
380
379
378
377
376
2
4
6
8
10
Pressure in

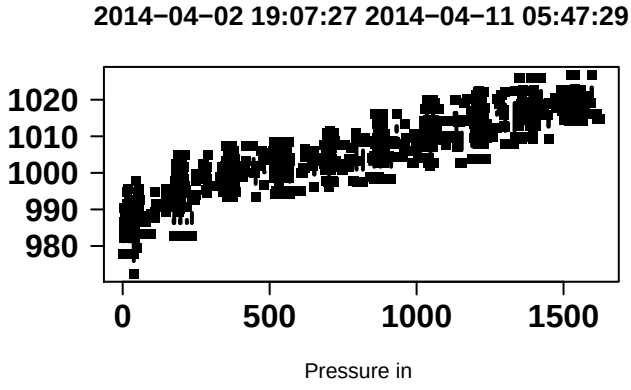

black 0.011 red 0.042
Seawater potential density anomaly
Seawater density − 1000
26.806
26.804
26.802
26.800
26.798
28.47
28.45
1.0
1.2
1.4
1.6
1.8
2.0

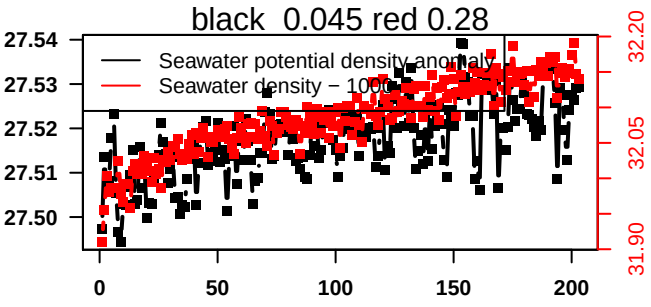

lovbio006b_055_03_06.txt
69
68
67
66
65
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

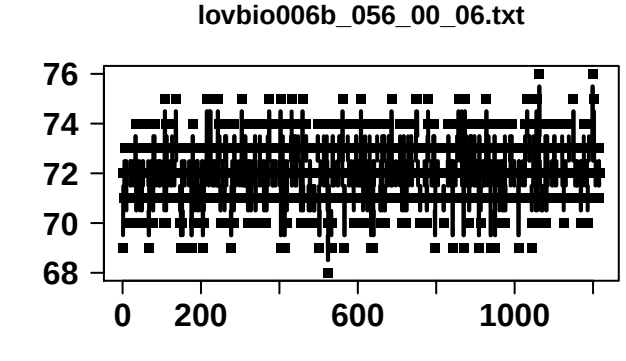

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

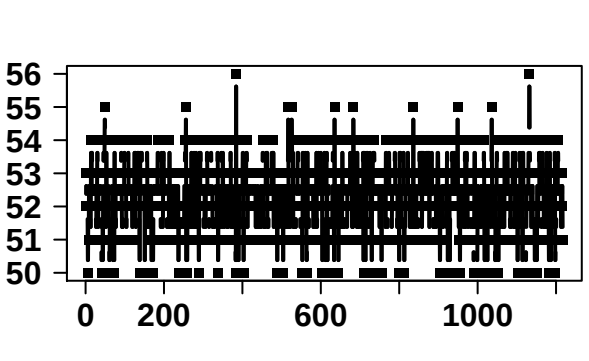

nb days: 0 freq: 0 min
130
120
110
100
90
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

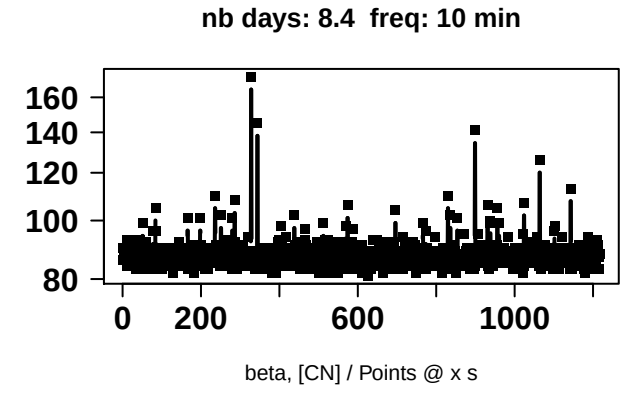

nb days: 0 freq: 0.1 min
0.1550
0.1545
0.1540
0.1535
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

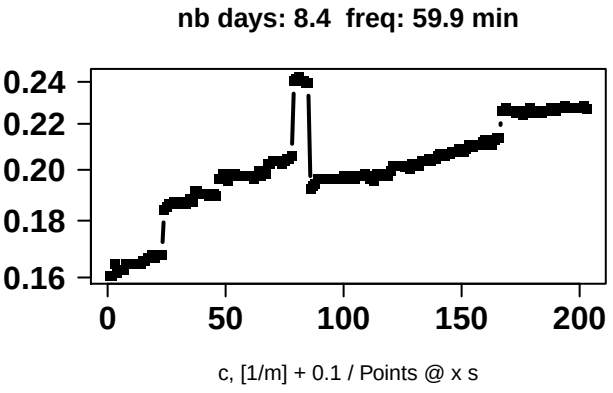

2014−04−02 19:07:27 2014−04−11 05:47:29
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

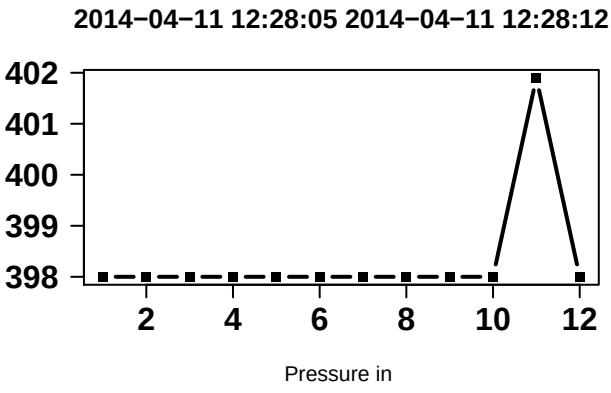

black 0.045 red 0.28
27.54
27.53
27.52
27.51
27.50
Seawater potential density anomaly
Seawater density − 1000
32.20
32.05
31.90
0
50
100
150
200

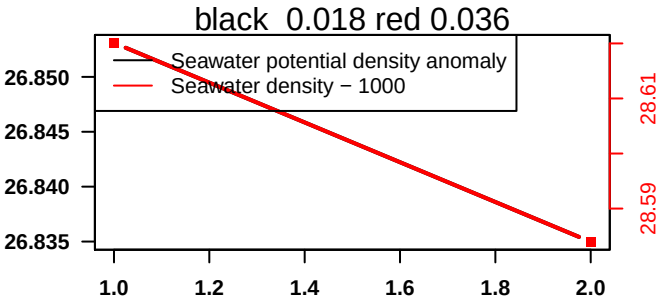

lovbio006b_056_00_06.txt
76
74
72
70
68
0
200
600
1000
CDOM, [CN] / Points @ x s

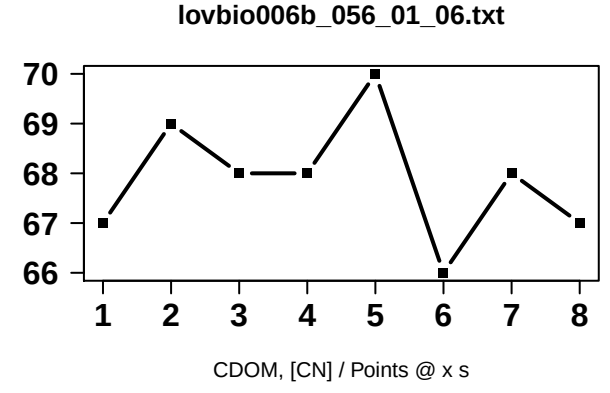

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

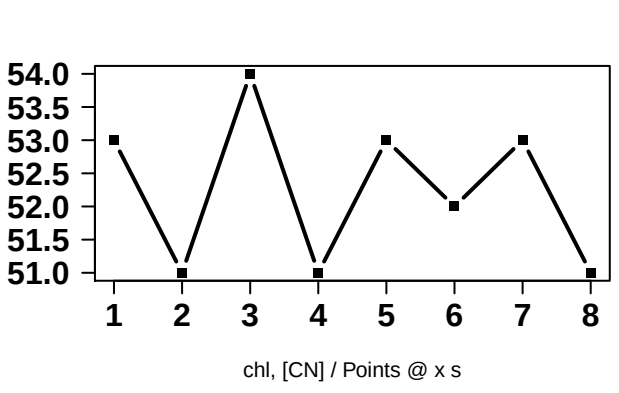

nb days: 8.4 freq: 10 min
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

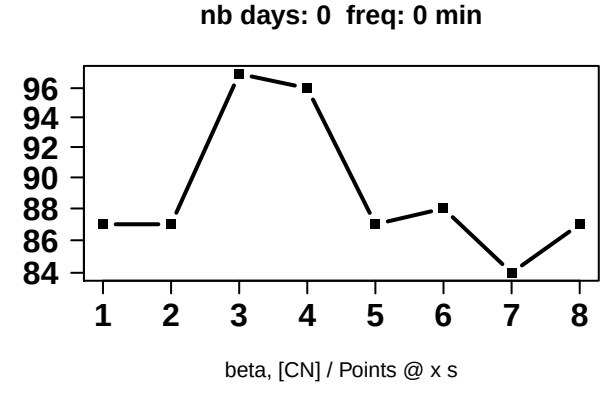

nb days: 8.4 freq: 59.9 min
0.24
0.22
0.20
0.18
0.16
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

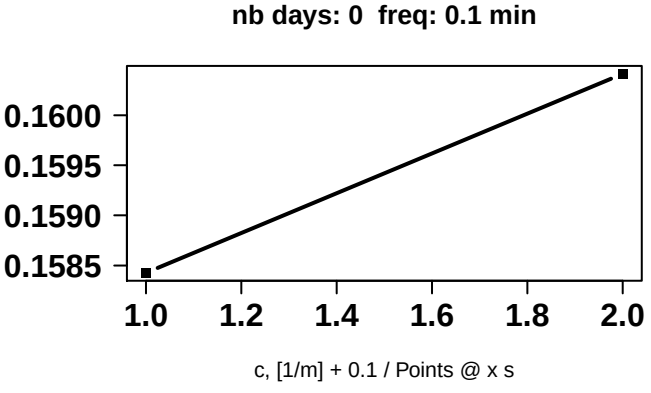

2014−04−11 12:28:05 2014−04−11 12:28:12
402
401
400
399
398
2
4
6
8
10
12
Pressure in

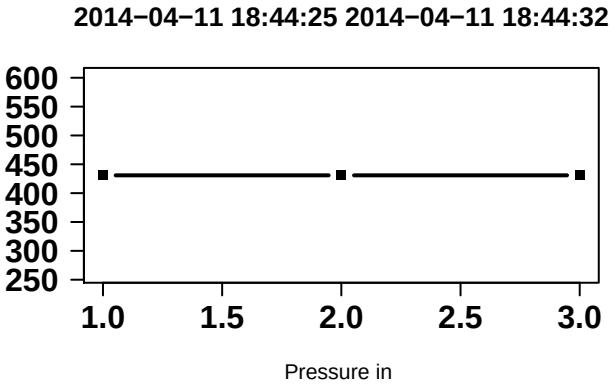

black 0.018 red 0.036
Seawater potential density anomaly
Seawater density − 1000
26.850
26.845
26.840
26.835
28.61
28.59
1.0
1.2
1.4
1.6
1.8
2.0

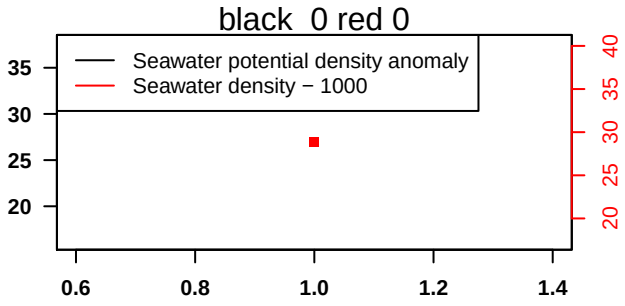

lovbio006b_056_01_06.txt
70
69
68
67
66
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

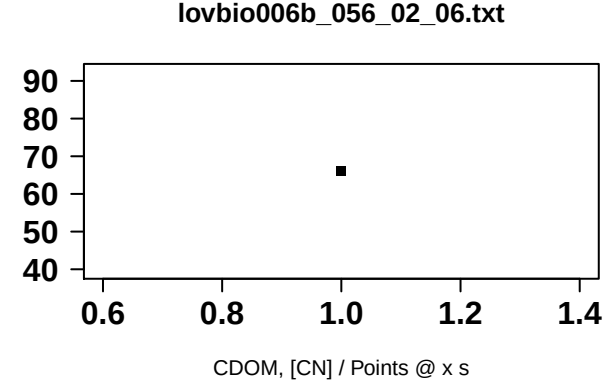

54.0
53.5
53.0
52.5
52.0
51.5
51.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

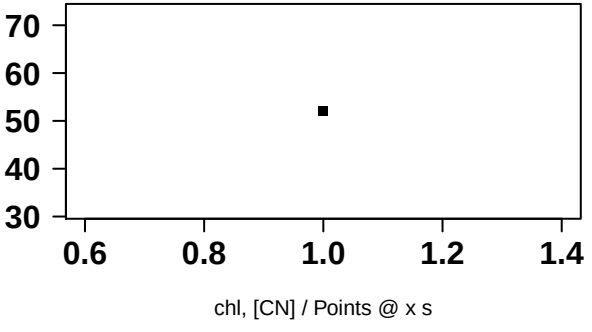

nb days: 0 freq: 0 min
96
94
92
90
88
86
84
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

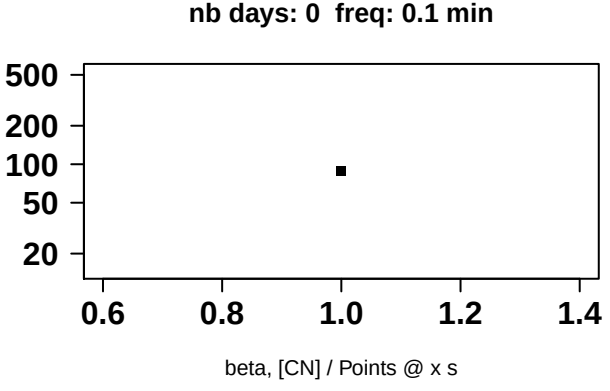

nb days: 0 freq: 0.1 min
0.1600
0.1595
0.1590
0.1585
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

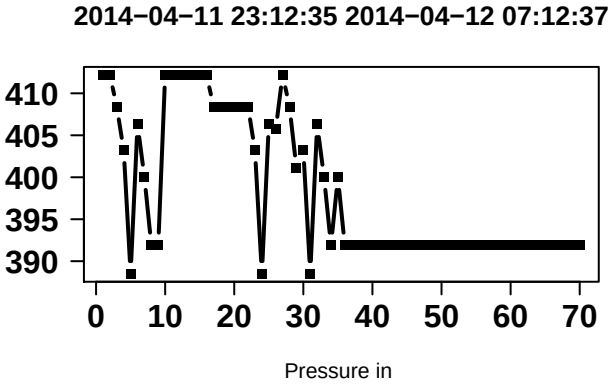

2014−04−11 18:44:25 2014−04−11 18:44:32
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

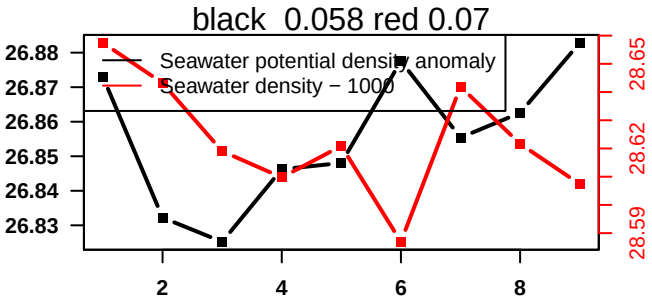

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

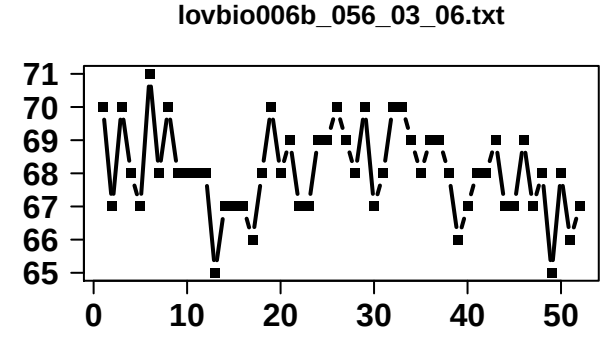

lovbio006b_056_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

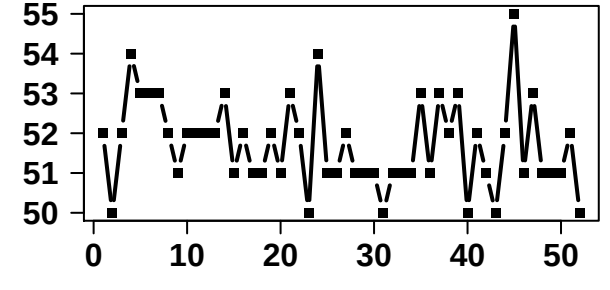

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

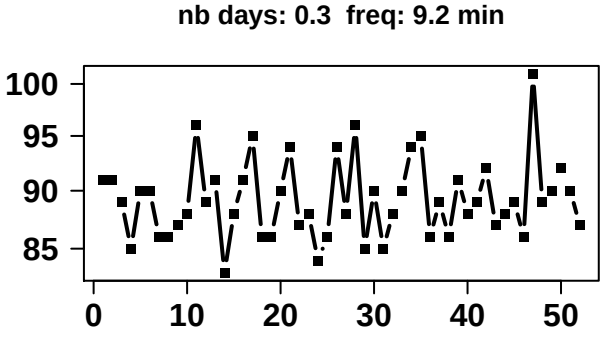

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

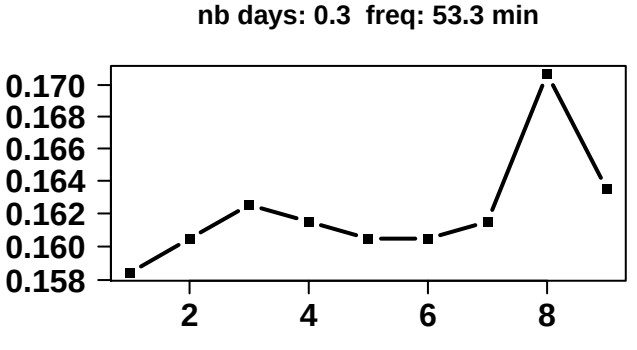

2014−04−11 23:12:35 2014−04−12 07:12:37
410
405
400
395
390
0
10
20
30
40
50
60
70
Pressure in

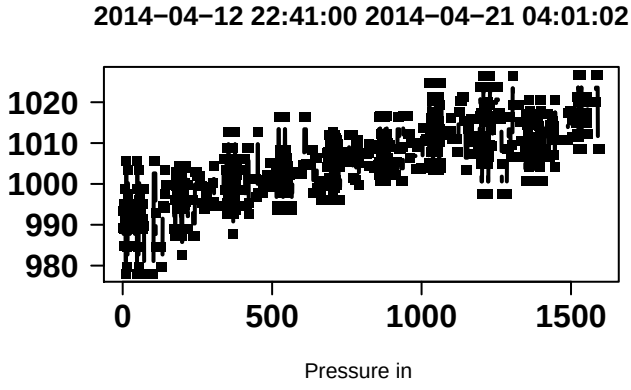

black 0.058 red 0.07
Seawater potential density anomaly
Seawater density − 1000
26.88
26.87
26.86
26.85
26.84
26.83
28.65
28.62
28.59
2
4
6
8

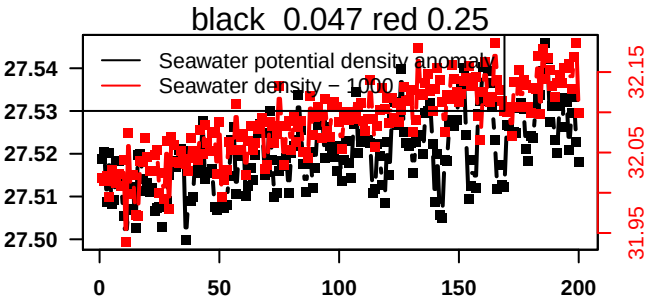

lovbio006b_056_03_06.txt
71
70
69
68
67
66
65
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

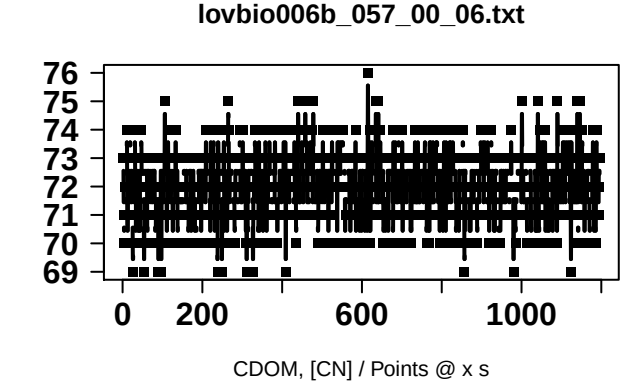

55
54
53
52
51
50
0
10
20
30
40
50
chl, [CN] / Points @ x s

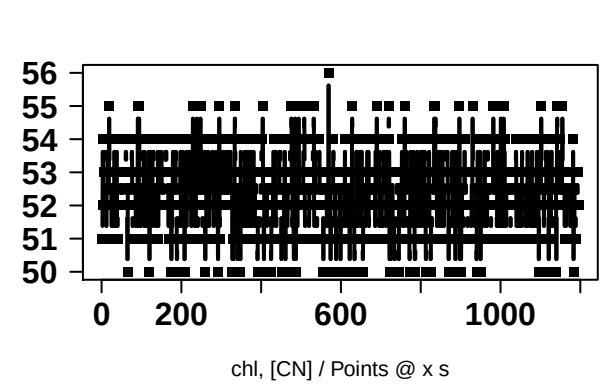

nb days: 0.3 freq: 9.2 min
100
95
90
85
0
10
20
30
40
50
beta, [CN] / Points @ x s

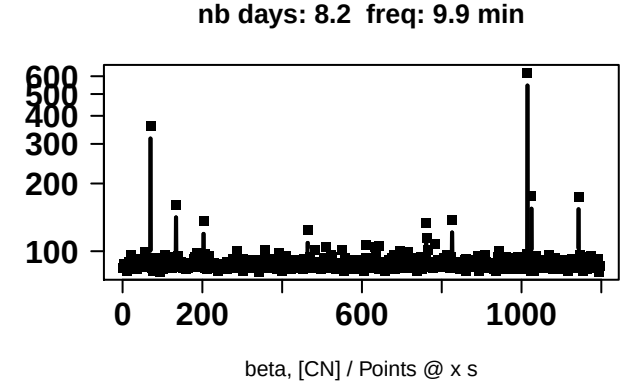

nb days: 0.3 freq: 53.3 min
0.170
0.168
0.166
0.164
0.162
0.160
0.158
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

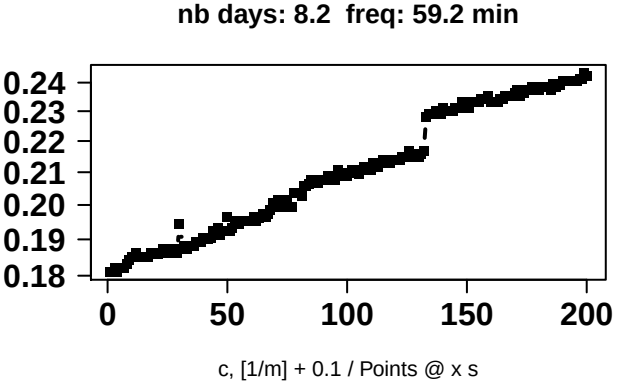

2014−04−12 22:41:00 2014−04−21 04:01:02
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

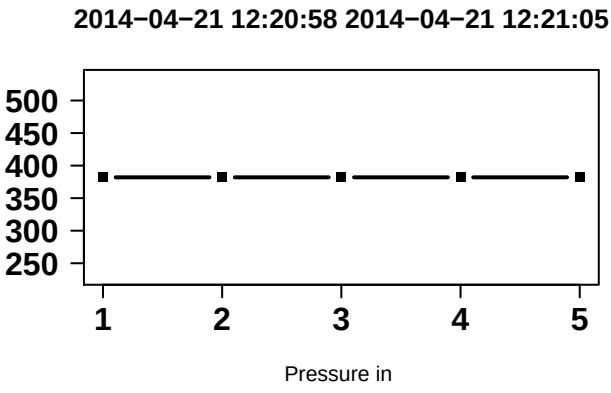

black 0.047 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.15
32.05
31.95
0
50
100
150
200

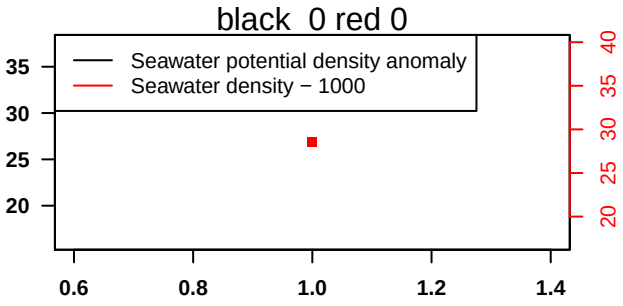

lovbio006b_057_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

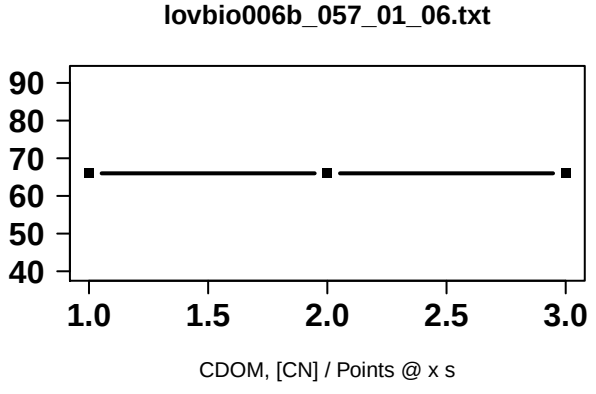

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

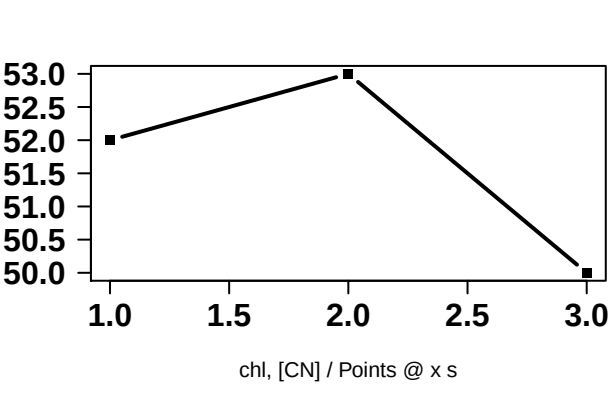

nb days: 8.2 freq: 9.9 min
600
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

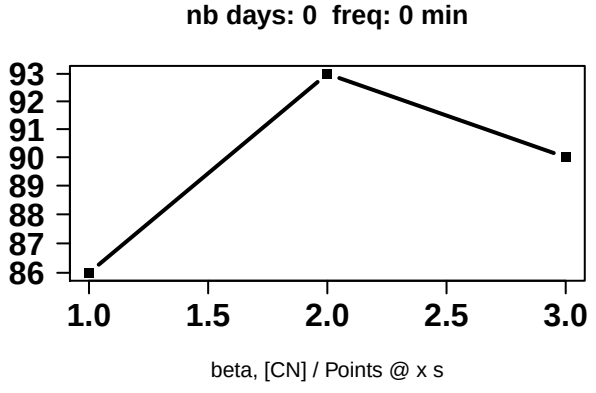

nb days: 8.2 freq: 59.2 min
0.24
0.23
0.22
0.21
0.20
0.19
0.18
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

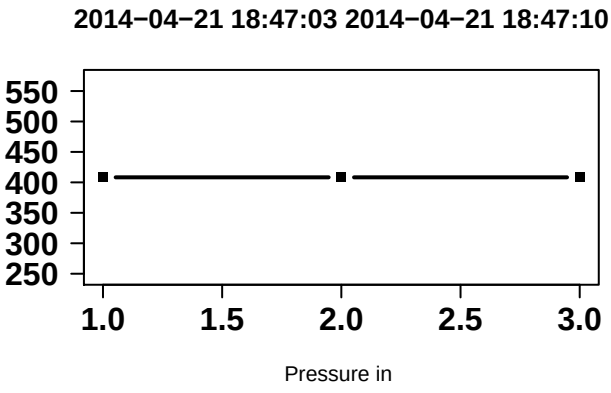

2014−04−21 12:20:58 2014−04−21 12:21:05
500
450
400
350
300
250
1
2
3
4
5
Pressure in

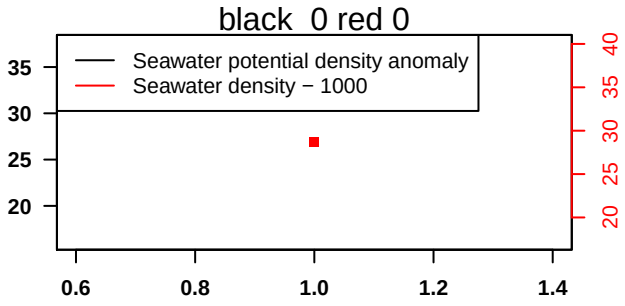

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

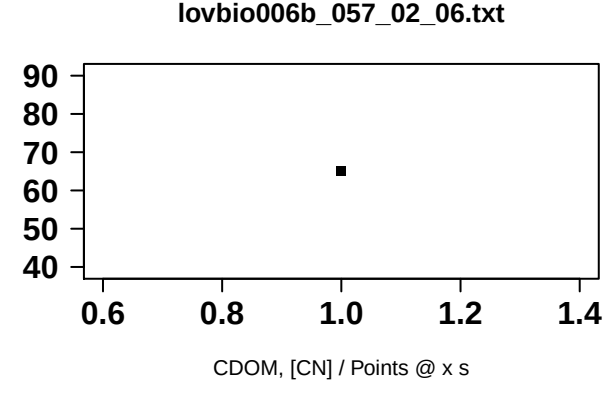

lovbio006b_057_01_06.txt
90
80
70
60
50
40
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

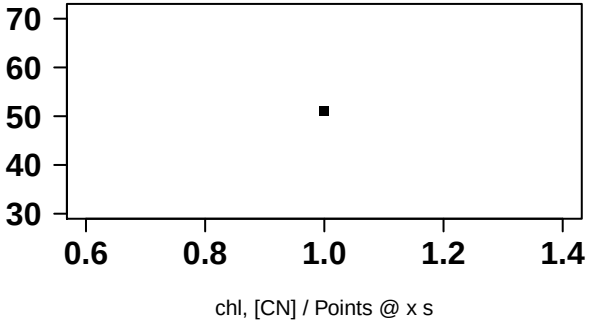

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

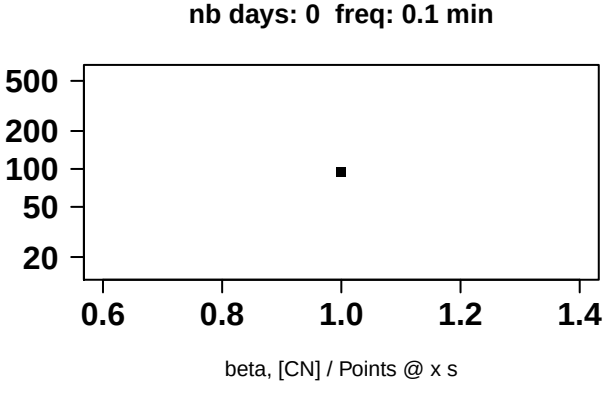

nb days: 0 freq: 0 min
93
92
91
90
89
88
87
86
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

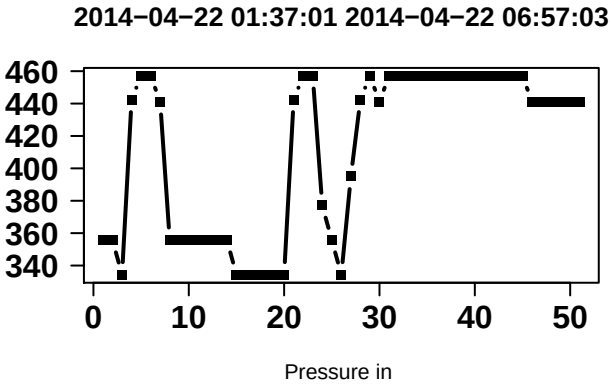

2014−04−21 18:47:03 2014−04−21 18:47:10
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

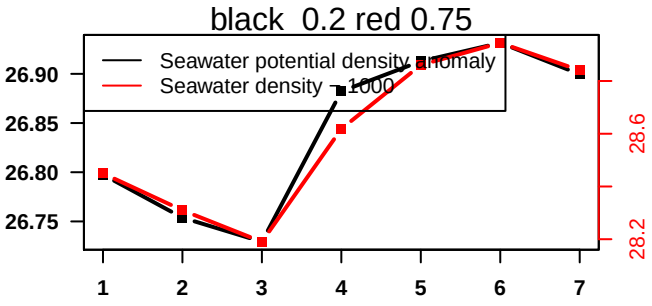

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

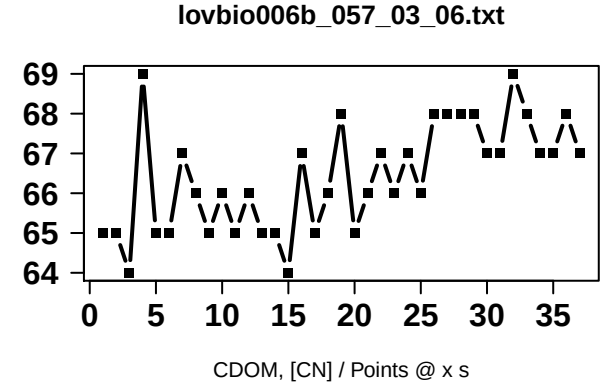

lovbio006b_057_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

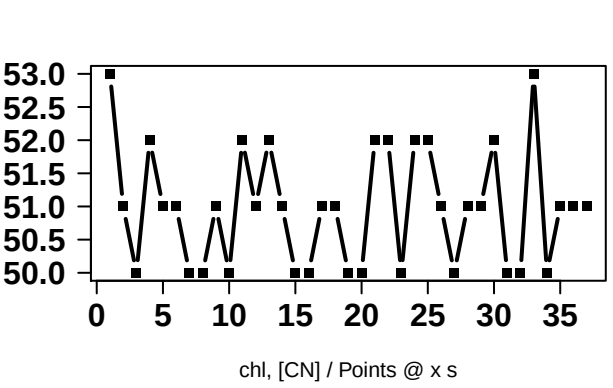

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

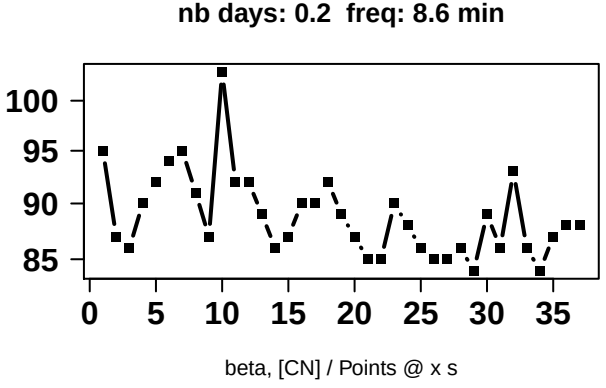

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

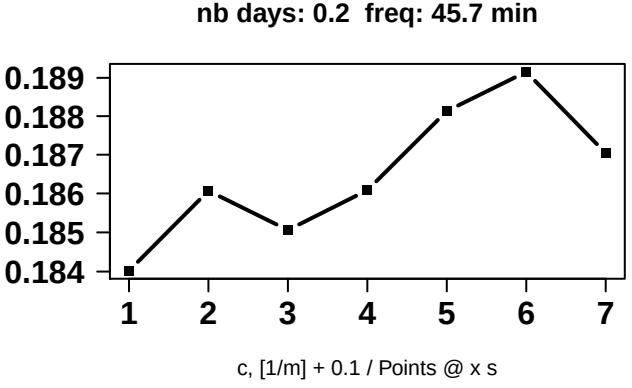

2014−04−22 01:37:01 2014−04−22 06:57:03
460
440
420
400
380
360
340
0
10
20
30
40
50
Pressure in

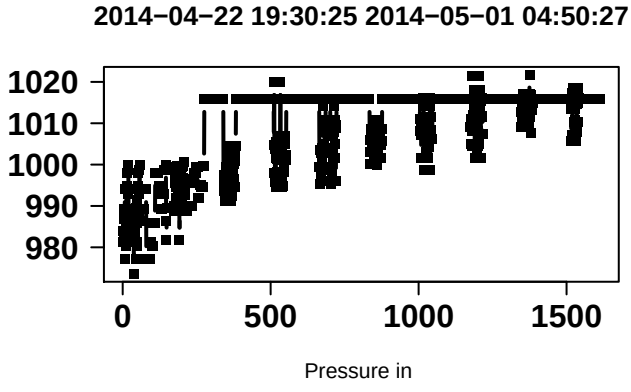

black 0.2 red 0.75
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
26.75
28.6
28.2
1
2
3
4
5
6
7

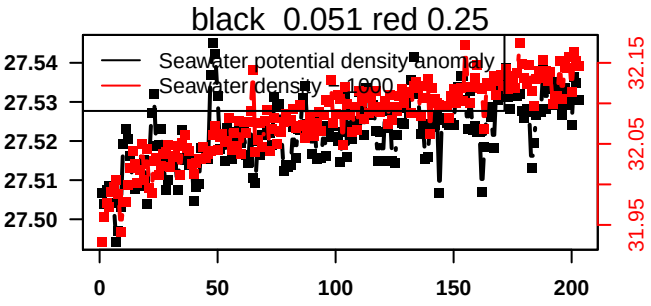

lovbio006b_057_03_06.txt
69
68
67
66
65
64
0
5
10
15
20
25
30
35
CDOM, [CN] / Points @ x s

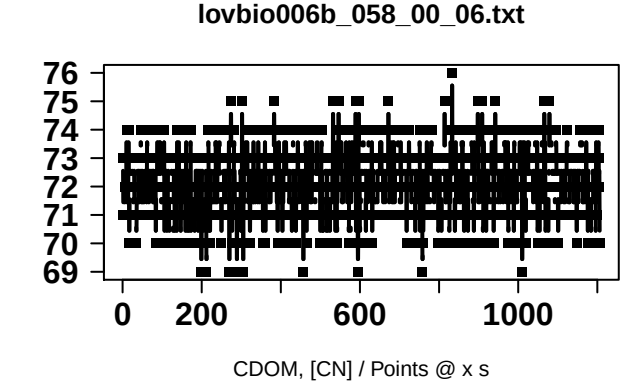

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
5
10
15
20
25
30
35
chl, [CN] / Points @ x s

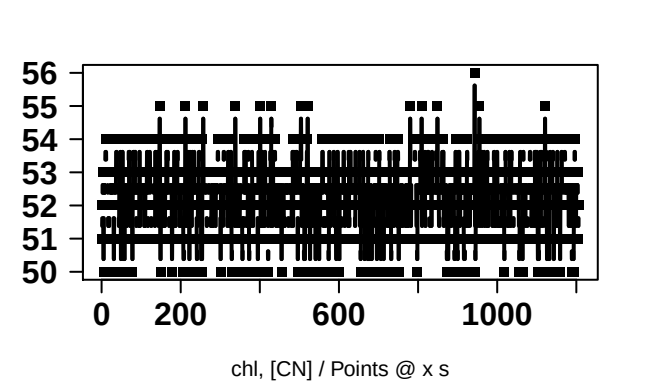

nb days: 0.2 freq: 8.6 min
100
95
90
85
0
5
10
15
20
25
30
35
beta, [CN] / Points @ x s

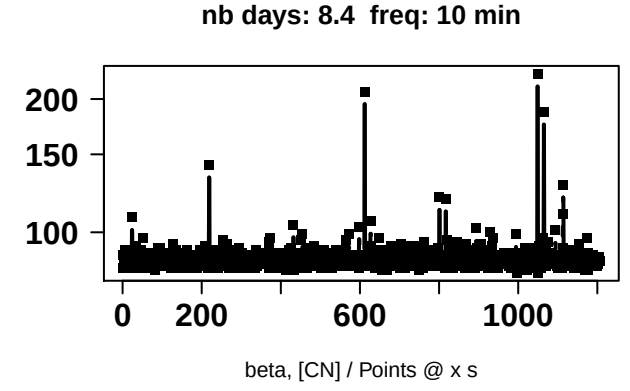

nb days: 0.2 freq: 45.7 min
0.189
0.188
0.187
0.186
0.185
0.184
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

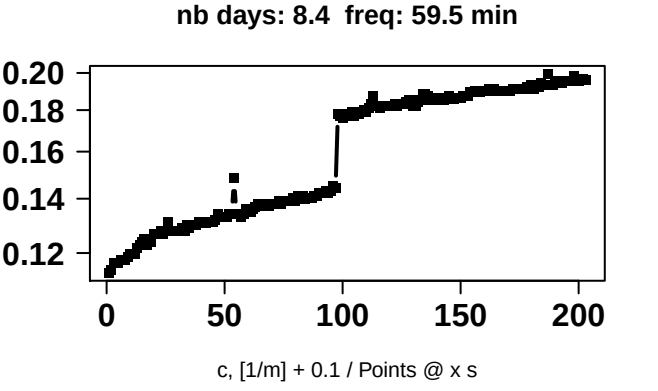

2014−04−22 19:30:25 2014−05−01 04:50:27
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

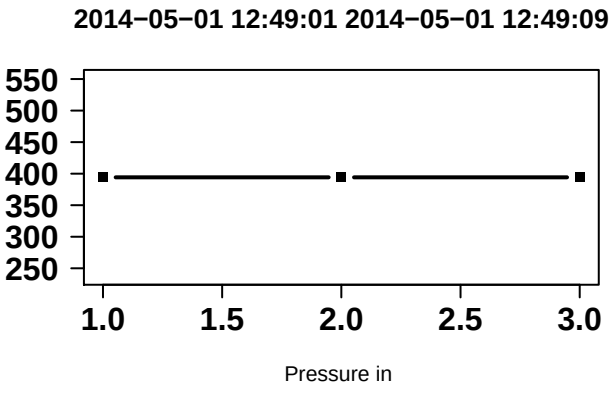

black 0.051 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.15
32.05
31.95
0
50
100
150
200

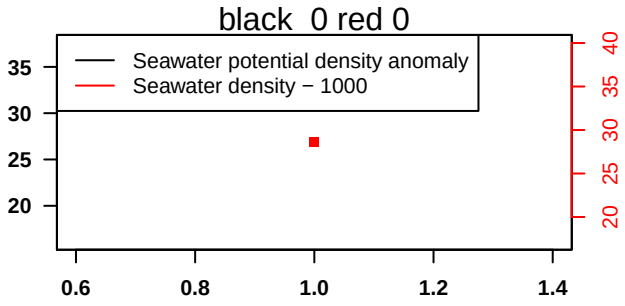

lovbio006b_058_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

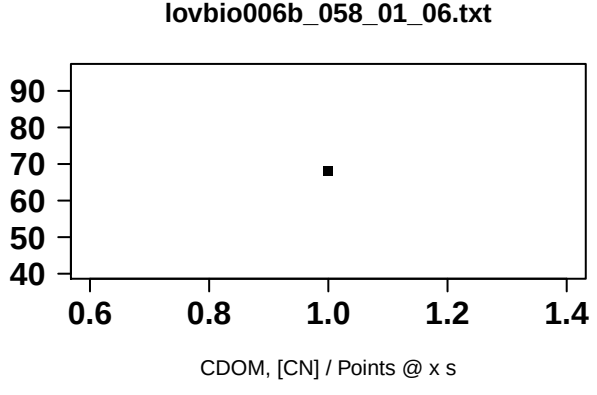

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

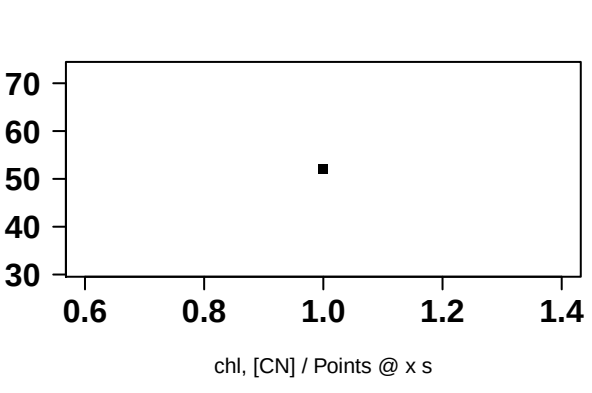

nb days: 8.4 freq: 10 min
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

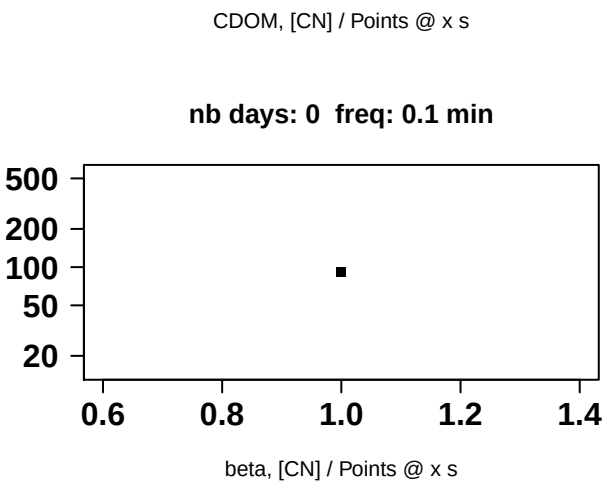

nb days: 8.4 freq: 59.5 min
0.20
0.18
0.16
0.14
0.12
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

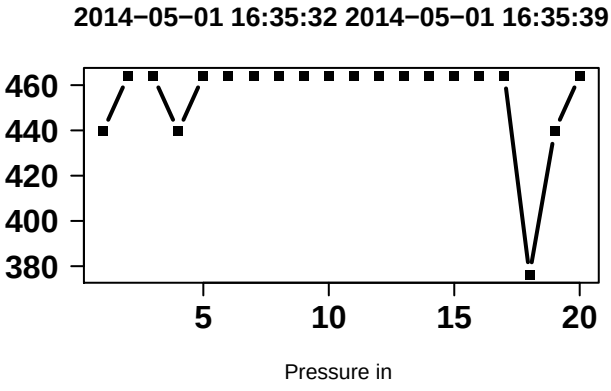

2014−05−01 12:49:01 2014−05−01 12:49:09
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

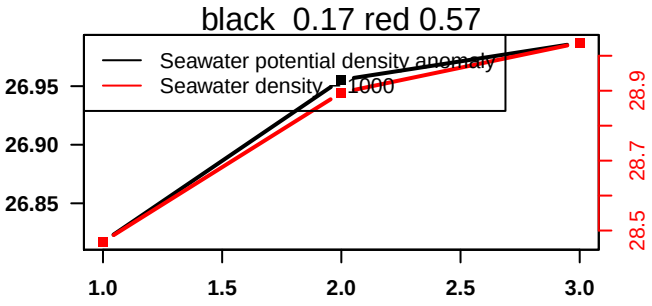

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

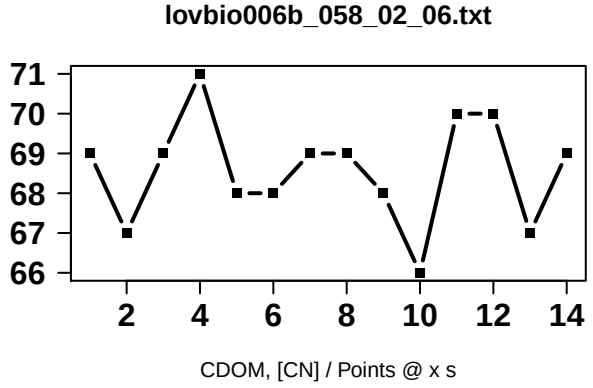

lovbio006b_058_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

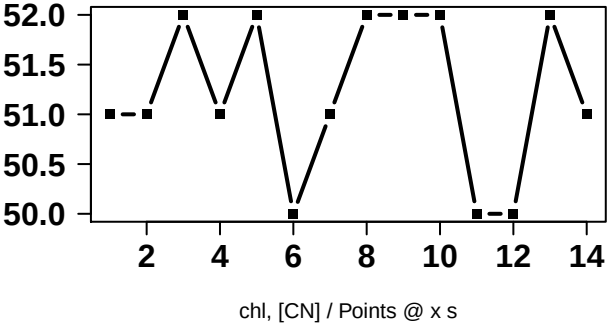

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

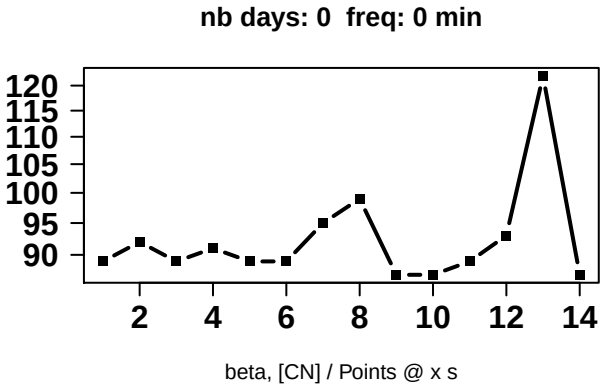

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

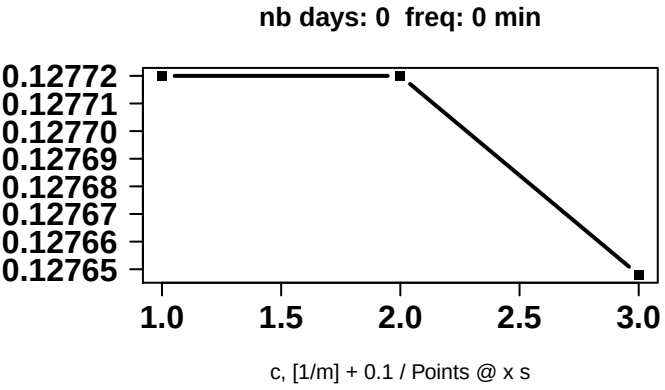

2014−05−01 16:35:32 2014−05−01 16:35:39
460
440
420
400
380
5
10
15
20
Pressure in

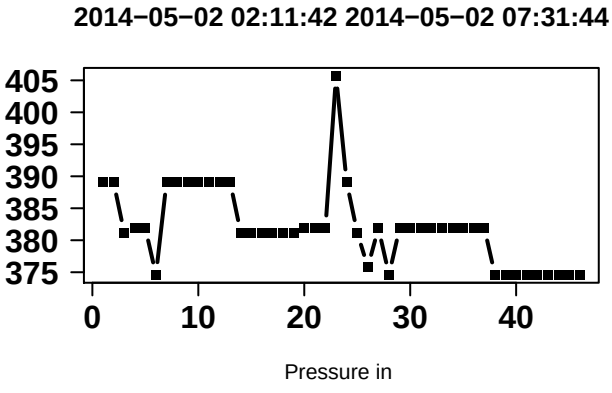

black 0.17 red 0.57
Seawater potential density anomaly
Seawater density − 1000
26.95
26.90
26.85
1.0
1.5
2.0
2.5
3.0
28.9
28.7
28.5

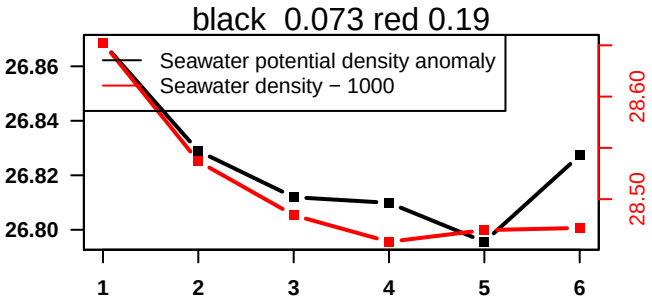

lovbio006b_058_02_06.txt
71
70
69
68
67
66
2
4
6
8
10
12
14
CDOM, [CN] / Points @ x s

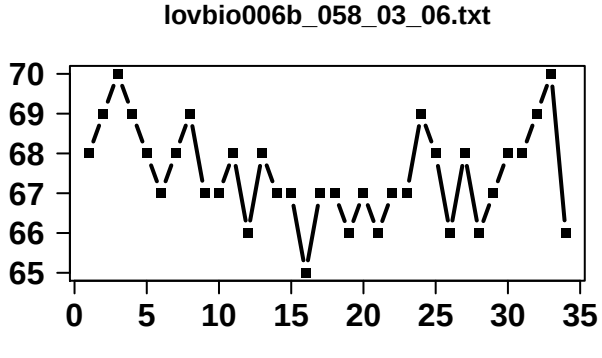

52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
12
14
chl, [CN] / Points @ x s

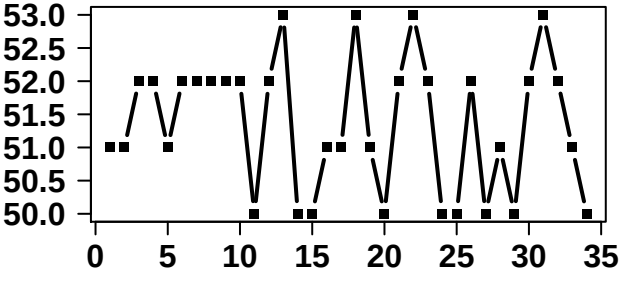

nb days: 0 freq: 0 min
120
115
110
105
100
95
90
2
4
6
8
10
12
14
beta, [CN] / Points @ x s

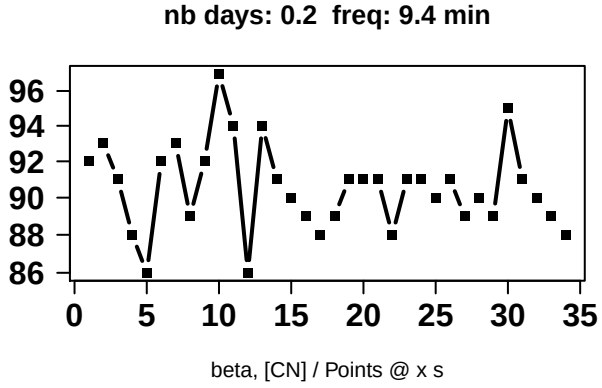

nb days: 0 freq: 0 min
0.12772
0.12771
0.12770
0.12769
0.12768
0.12767
0.12766
0.12765
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

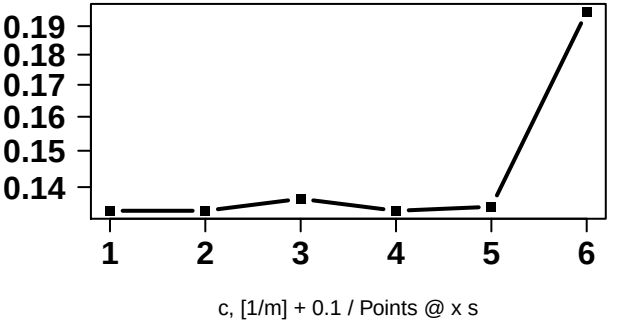

2014−05−02 02:11:42 2014−05−02 07:31:44
405
400
395
390
385
380
375
0
10
20
30
40
Pressure in

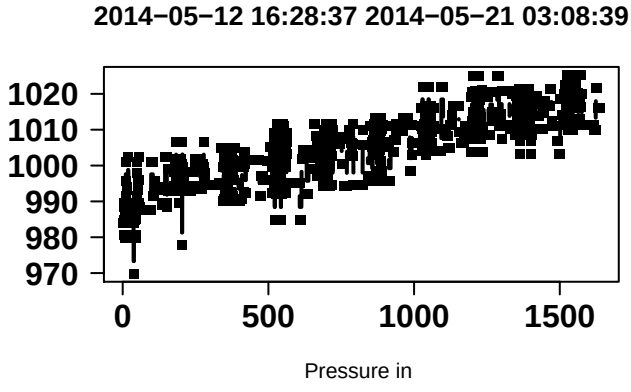

black 0.073 red 0.19
Seawater potential density anomaly
Seawater density − 1000
26.86
26.84
26.82
26.80
28.60
28.50
1
2
3
4
5
6

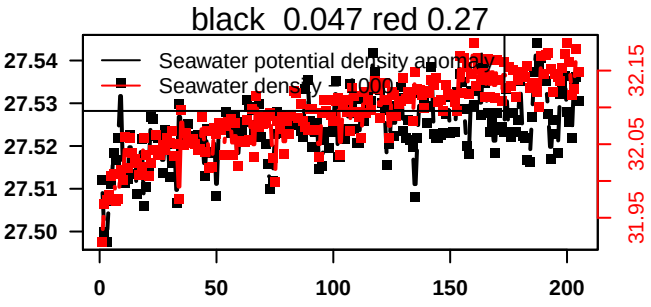

lovbio006b_058_03_06.txt
70
69
68
67
66
65
0
5
10
15
20
25
30
35
CDOM, [CN] / Points @ x s

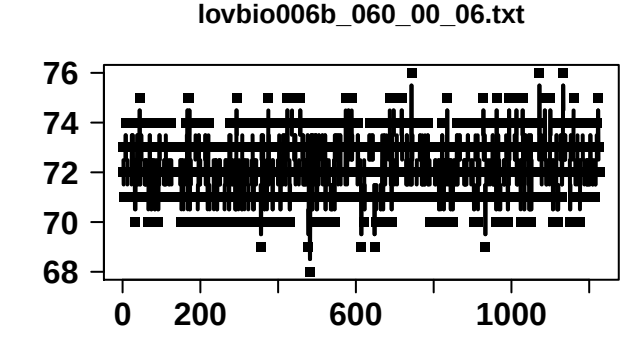

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
5
10
15
20
25
30
35
chl, [CN] / Points @ x s

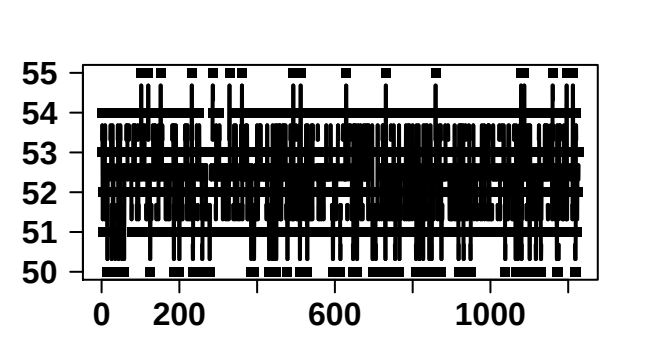

nb days: 0.2 freq: 9.4 min
96
94
92
90
88
86
0
5
10
15
20
25
30
35
beta, [CN] / Points @ x s

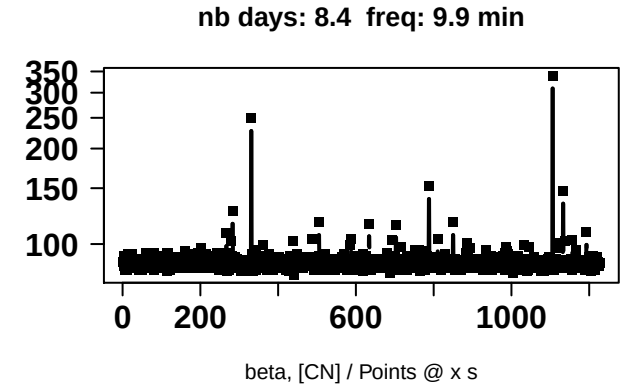

nb days: 0.2 freq: 53.3 min
0.19
0.18
0.17
0.16
0.15
0.14
1
2
3
4
5
6
c, [1/m] + 0.1 / Points @ x s

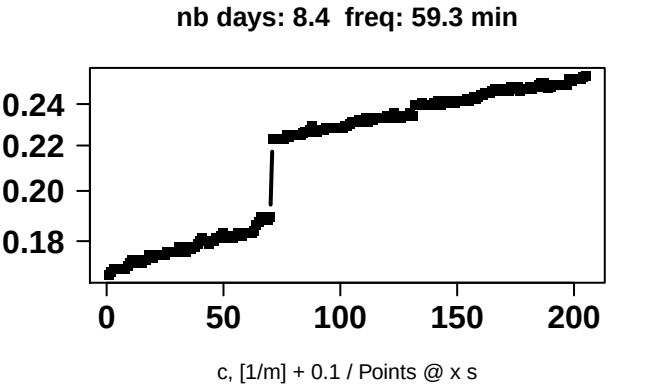

2014−05−12 16:28:37 2014−05−21 03:08:39
1020
1010
1000
990
980
970
0
500
1000
1500
Pressure in

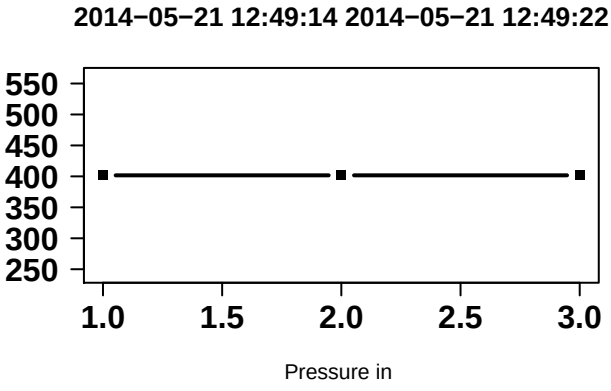

black 0.047 red 0.27
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.15
32.05
31.95
0
50
100
150
200

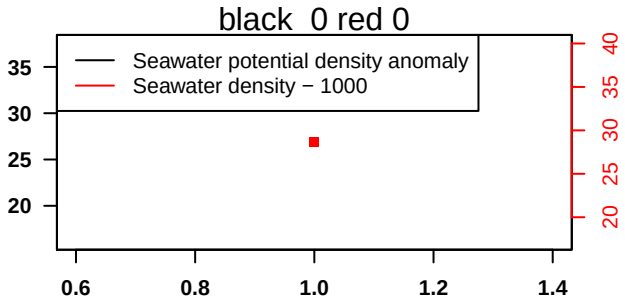

lovbio006b_060_00_06.txt
76
74
72
70
68
0
200
600
1000
CDOM, [CN] / Points @ x s

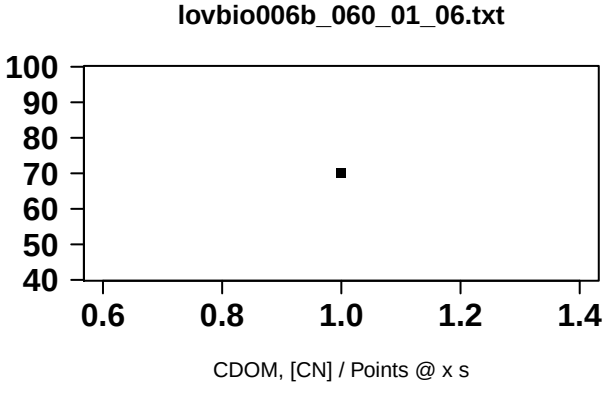

55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

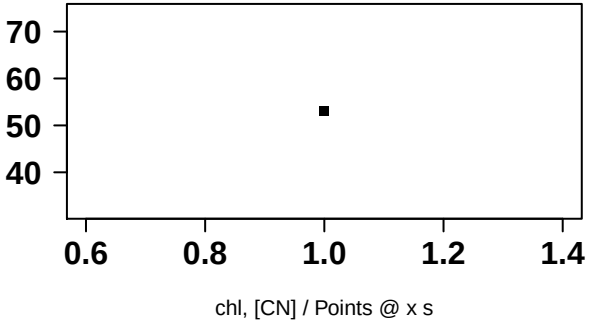

nb days: 8.4 freq: 9.9 min
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

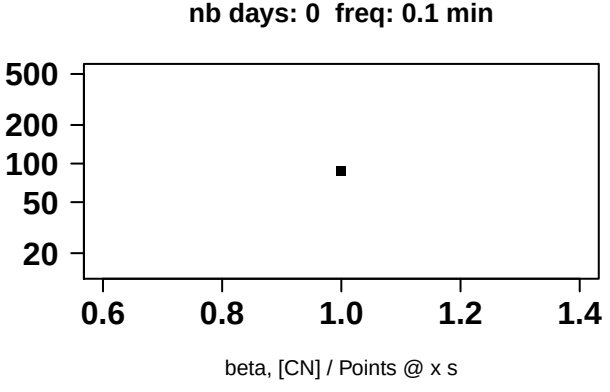

nb days: 8.4 freq: 59.3 min
0.24
0.22
0.20
0.18
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

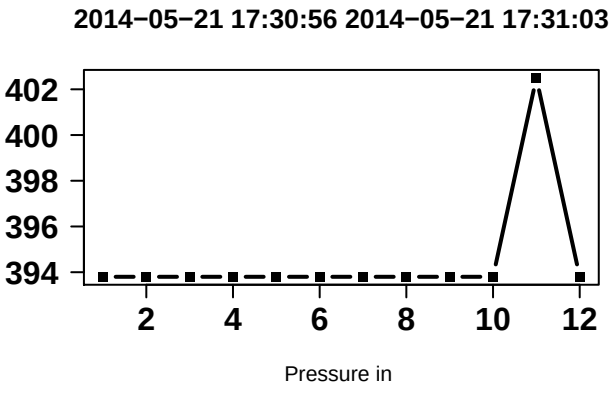

2014−05−21 12:49:14 2014−05−21 12:49:22
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

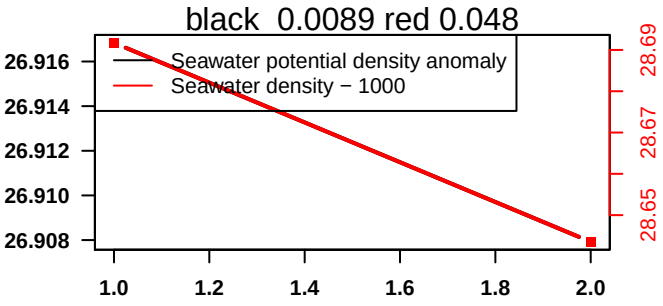

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

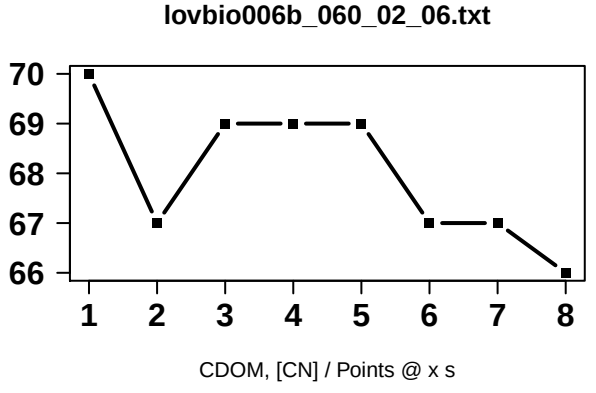

lovbio006b_060_01_06.txt
100
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

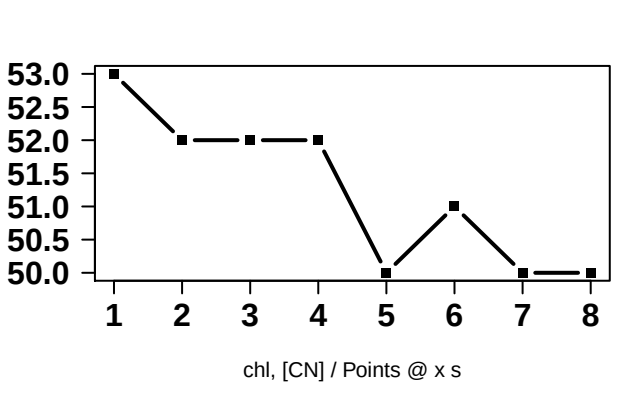

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

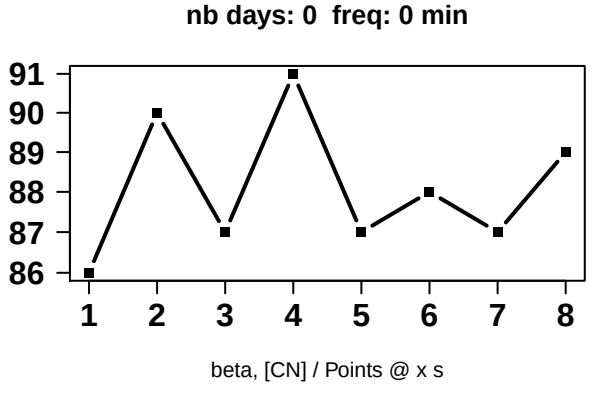

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

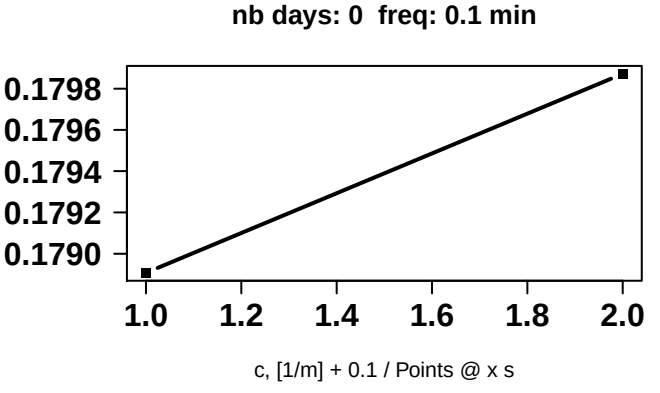

2014−05−21 17:30:56 2014−05−21 17:31:03
402
400
398
396
394
2
4
6
8
10
12
Pressure in

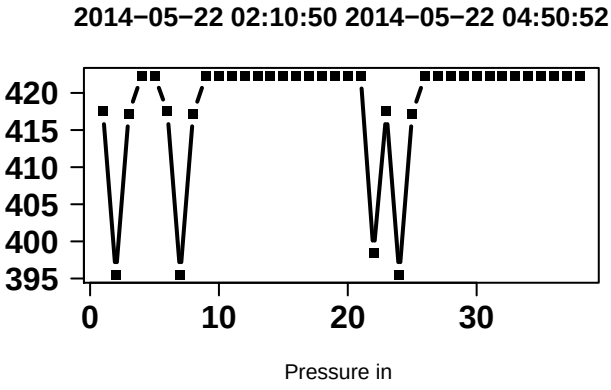

black 0.0089 red 0.048
Seawater potential density anomaly
Seawater density − 1000
26.916
26.914
26.912
26.910
26.908
28.69
28.67
28.65
1.0
1.2
1.4
1.6
1.8
2.0

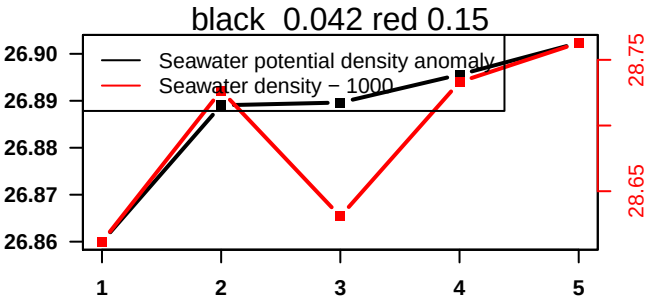

lovbio006b_060_02_06.txt
70
69
68
67
66
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

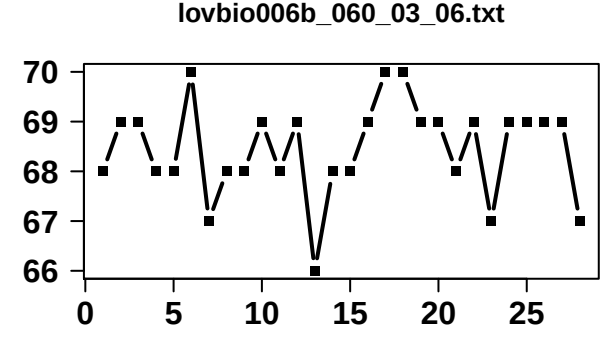

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

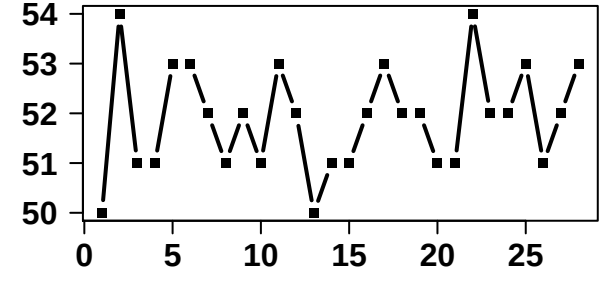

nb days: 0 freq: 0 min
91
90
89
88
87
86
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

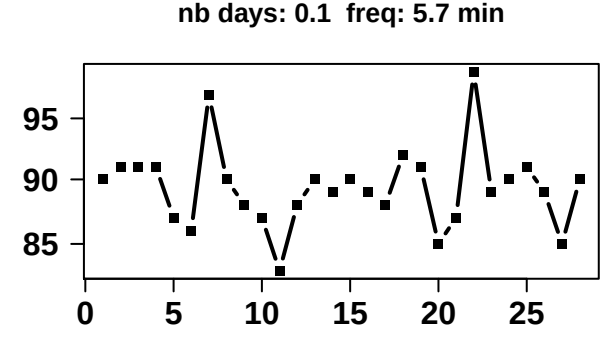

nb days: 0 freq: 0.1 min
0.1798
0.1796
0.1794
0.1792
0.1790
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

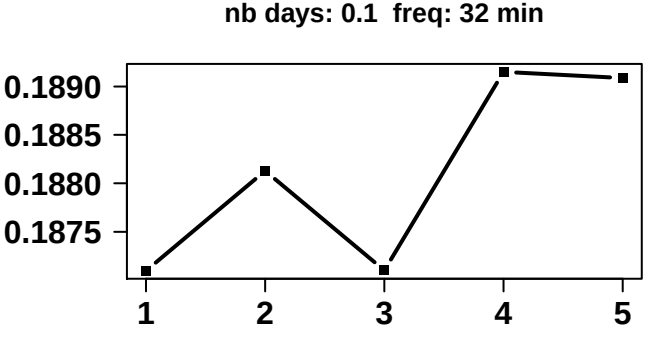

2014−05−22 02:10:50 2014−05−22 04:50:52
420
415
410
405
400
395
0
10
20
30
Pressure in

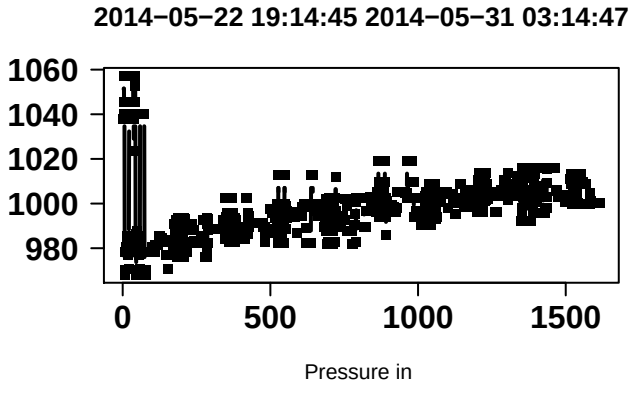

black 0.042 red 0.15
Seawater potential density anomaly
Seawater density − 1000
26.90
26.89
26.88
26.87
26.86
28.75
28.65
1
2
3
4
5

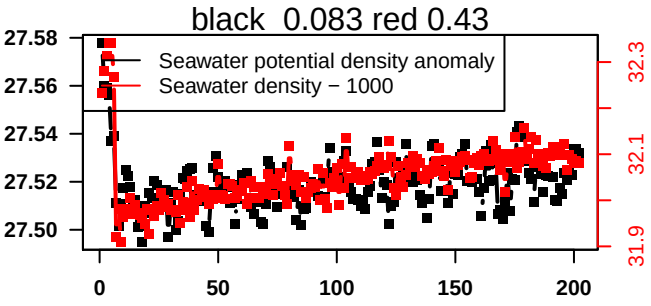

lovbio006b_060_03_06.txt
70
69
68
67
66
0
5
10
15
20
25
CDOM, [CN] / Points @ x s

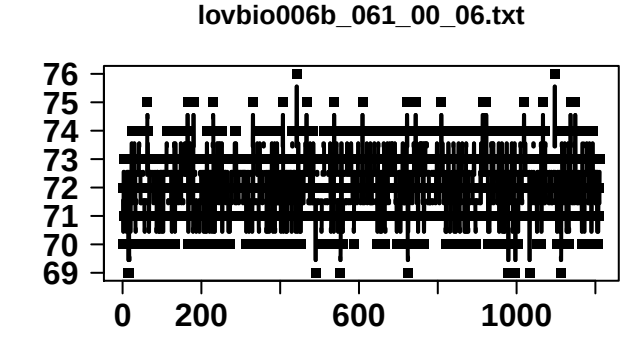

54
53
52
51
50
0
5
10
15
20
25
chl, [CN] / Points @ x s

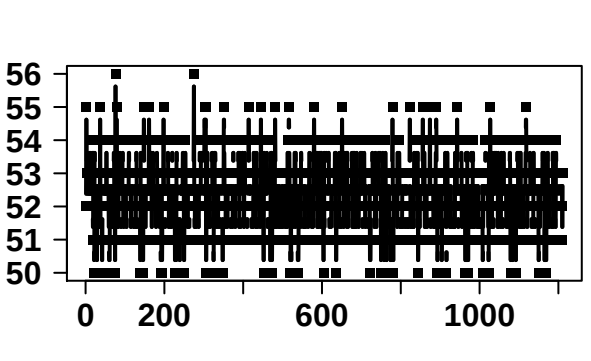

nb days: 0.1 freq: 5.7 min
95
90
85
0
5
10
15
20
25
beta, [CN] / Points @ x s

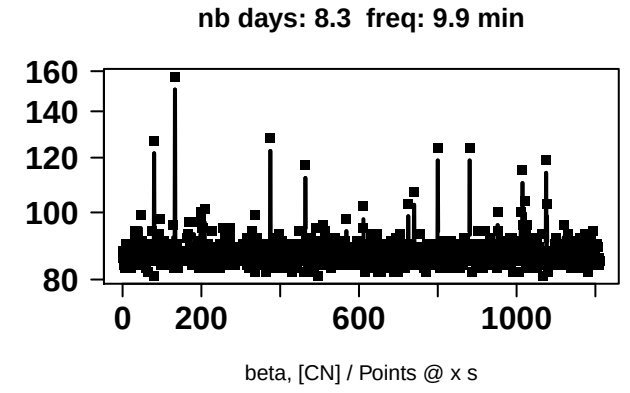

nb days: 0.1 freq: 32 min
0.1890
0.1885
0.1880
0.1875
1
2
3
4
5
c, [1/m] + 0.1 / Points @ x s

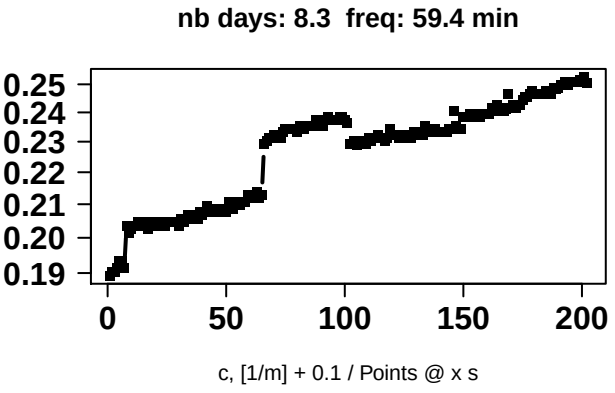

2014−05−22 19:14:45 2014−05−31 03:14:47
1060
1040
1020
1000
980
0
500
1000
1500
Pressure in

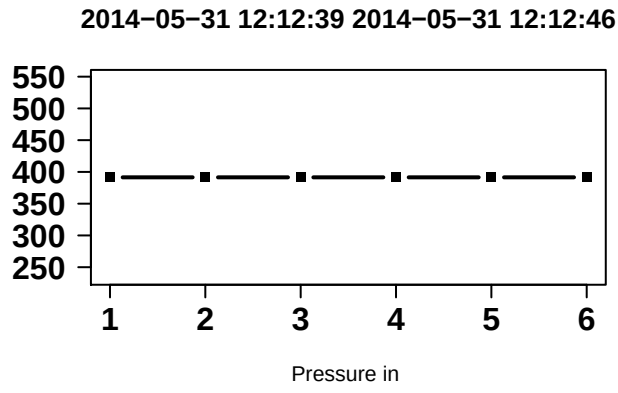

black 0.083 red 0.43
Seawater potential density anomaly
Seawater density − 1000
27.58
27.56
27.54
27.52
27.50
32.3
32.1
31.9
0
50
100
150
200

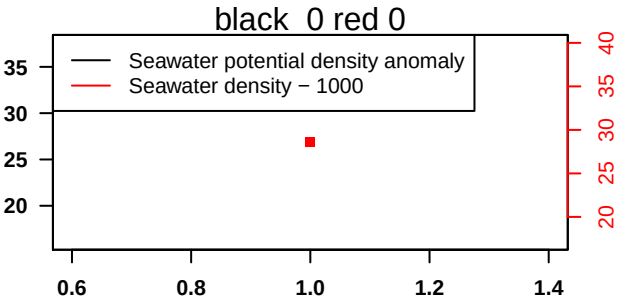

lovbio006b_061_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

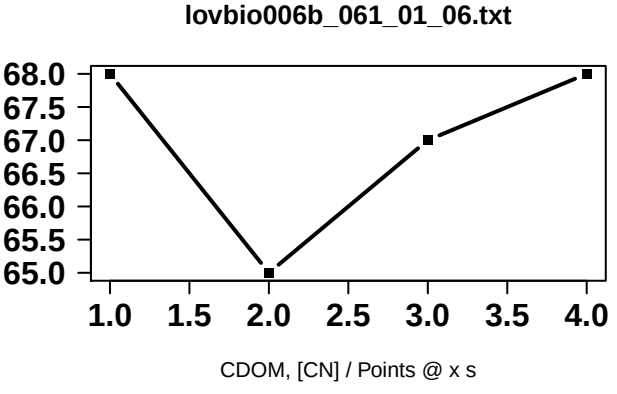

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

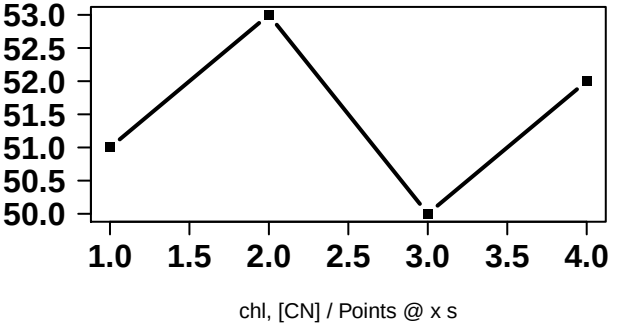

nb days: 8.3 freq: 9.9 min
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

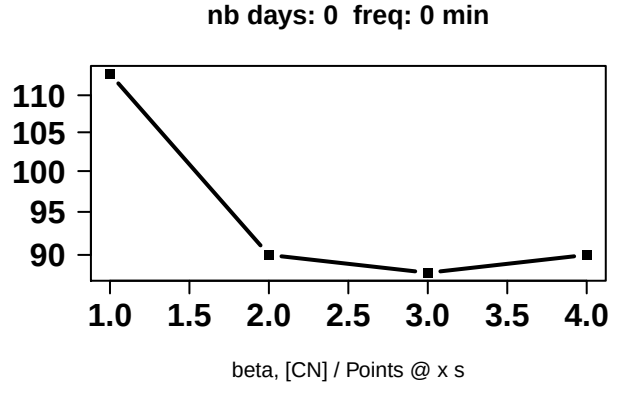

nb days: 8.3 freq: 59.4 min
0.25
0.24
0.23
0.22
0.21
0.20
0.19
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

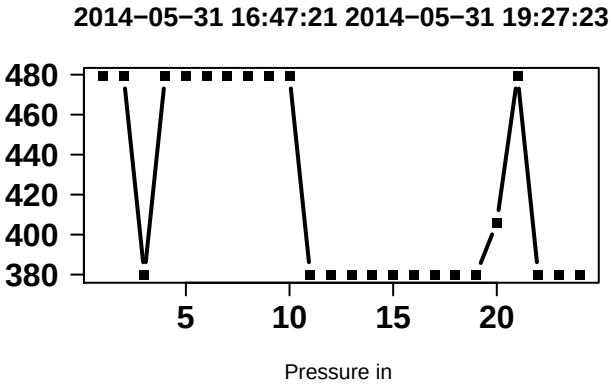

2014−05−31 12:12:39 2014−05−31 12:12:46
550
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

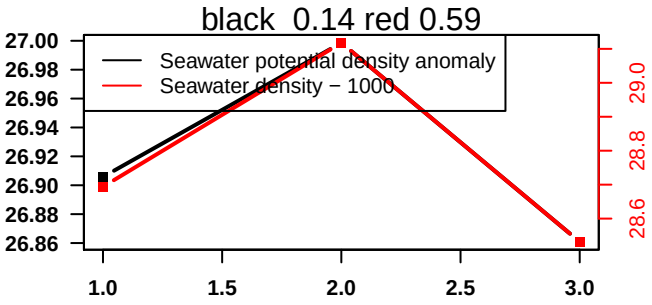

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

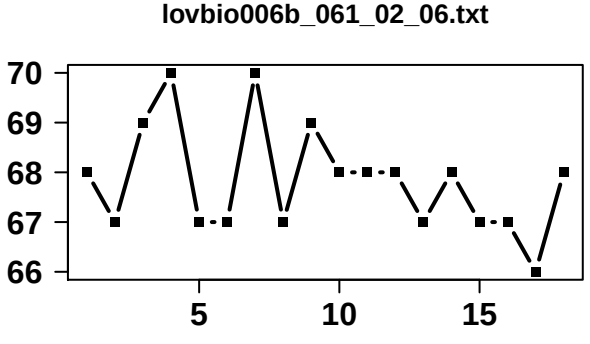

lovbio006b_061_01_06.txt
68.0
67.5
67.0
66.5
66.0
65.5
65.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

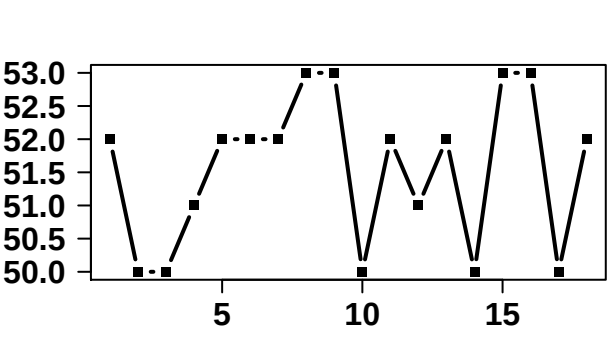

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

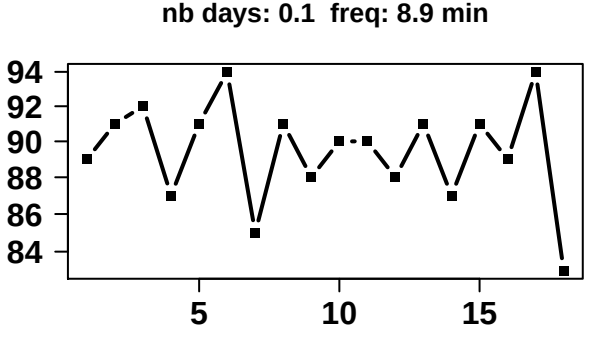

nb days: 0 freq: 0 min
110
105
100
95
90
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

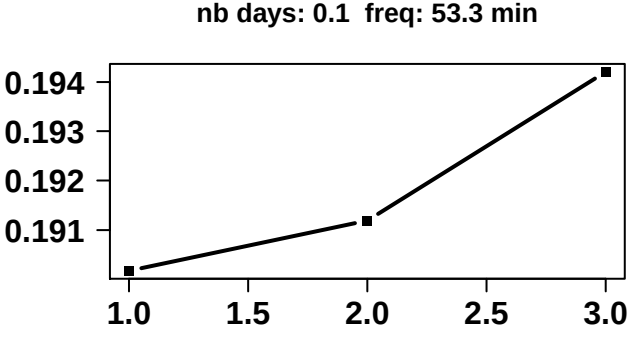

2014−05−31 16:47:21 2014−05−31 19:27:23
480
460
440
420
400
380
5
10
15
20
Pressure in

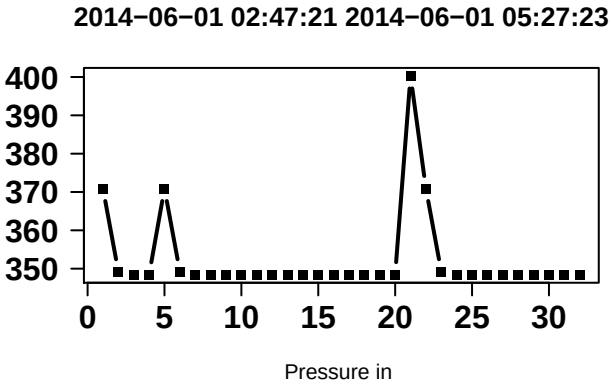

black 0.14 red 0.59
Seawater potential density anomaly
Seawater density − 1000
27.00
26.98
26.96
26.94
26.92
26.90
26.88
26.86
29.0
28.8
28.6
1.0
1.5
2.0
2.5
3.0

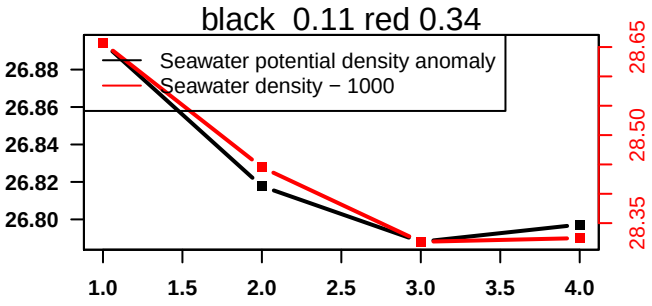

lovbio006b_061_02_06.txt
70
69
68
67
66
5
10
15
CDOM, [CN] / Points @ x s

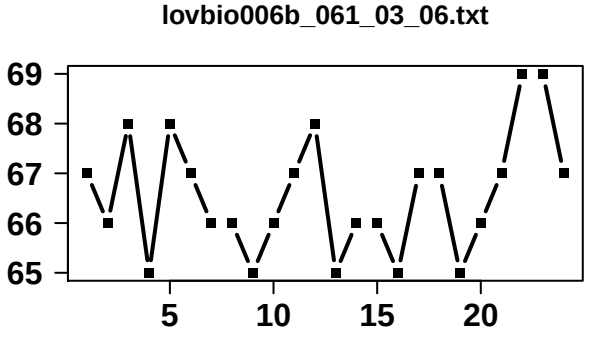

53.0
52.5
52.0
51.5
51.0
50.5
50.0
5
10
15
chl, [CN] / Points @ x s

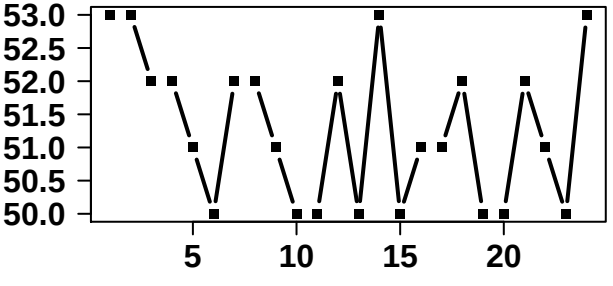

nb days: 0.1 freq: 8.9 min
94
92
90
88
86
84
5
10
15
beta, [CN] / Points @ x s

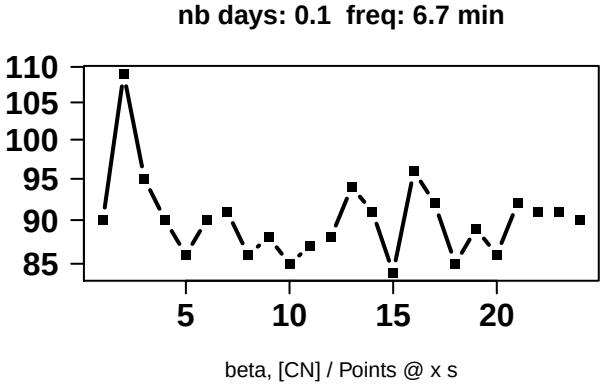

nb days: 0.1 freq: 53.3 min
0.194
0.193
0.192
0.191
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

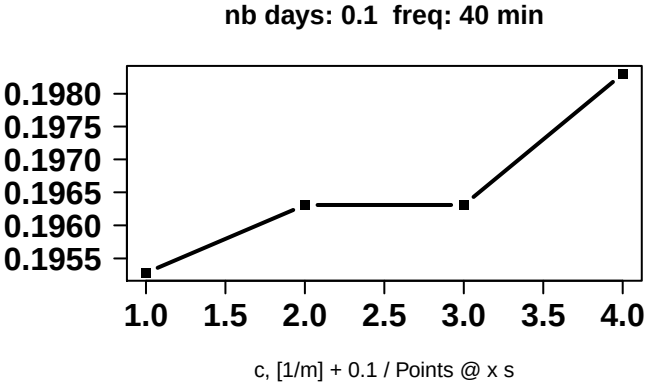

2014−06−01 02:47:21 2014−06−01 05:27:23
400
390
380
370
360
350
0
5
10
15
20
25
30
Pressure in

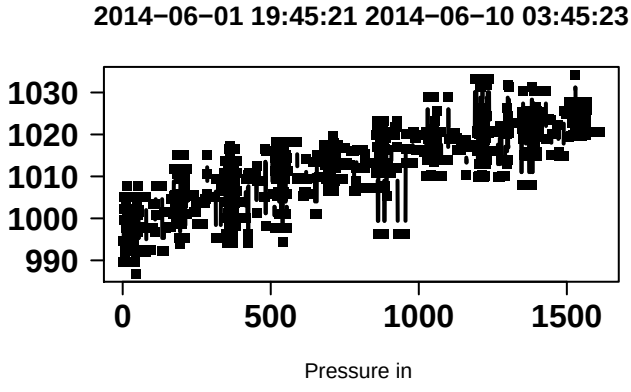

black 0.11 red 0.34
Seawater potential density anomaly
Seawater density − 1000
26.88
26.86
26.84
26.82
26.80
28.65
28.50
28.35
1.0
1.5
2.0
2.5
3.0
3.5
4.0

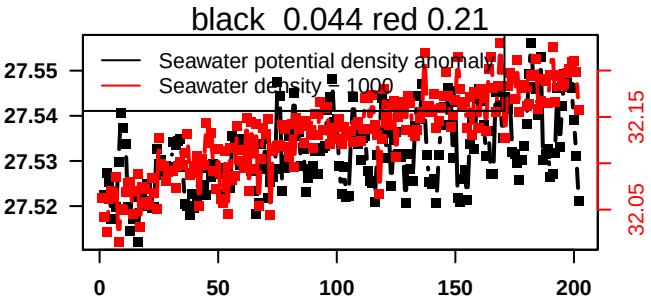

lovbio006b_061_03_06.txt
69
68
67
66
65
5
10
15
20
CDOM, [CN] / Points @ x s

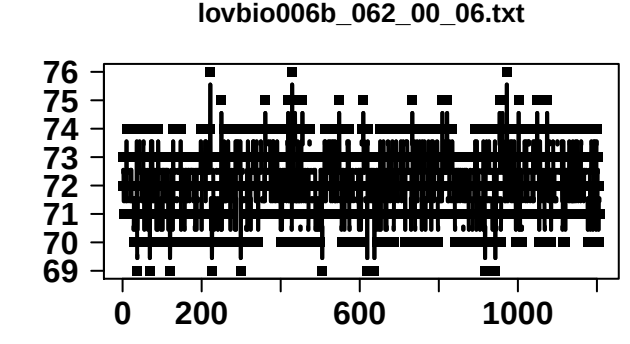

53.0
52.5
52.0
51.5
51.0
50.5
50.0
5
10
15
20
chl, [CN] / Points @ x s

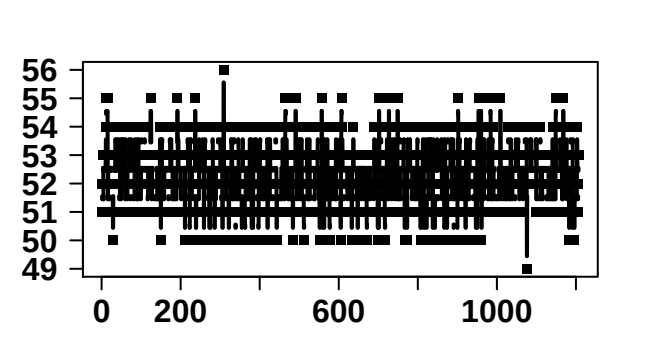

nb days: 0.1 freq: 6.7 min
110
105
100
95
90
85
5
10
15
20
beta, [CN] / Points @ x s

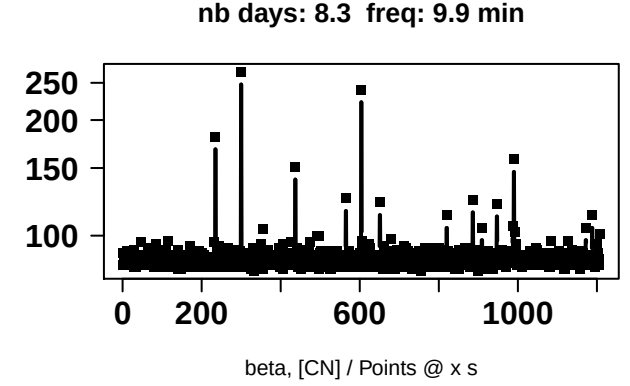

nb days: 0.1 freq: 40 min
0.1980
0.1975
0.1970
0.1965
0.1960
0.1955
1.0
1.5
2.0
2.5
3.0
3.5
4.0
c, [1/m] + 0.1 / Points @ x s

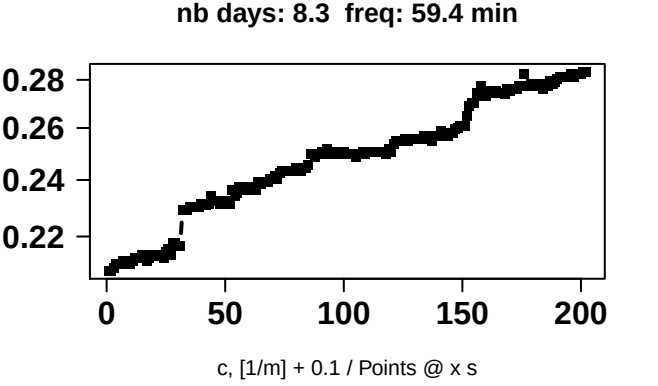

2014−06−01 19:45:21 2014−06−10 03:45:23
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

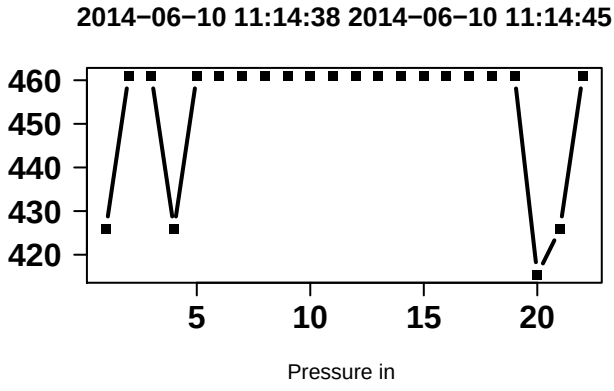

black 0.044 red 0.21
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
32.15
32.05
0
50
100
150
200

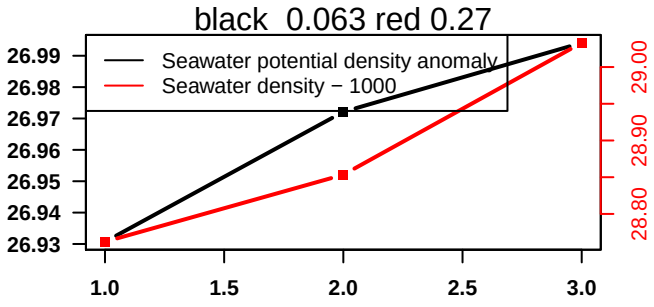

lovbio006b_062_00_06.txt
76
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

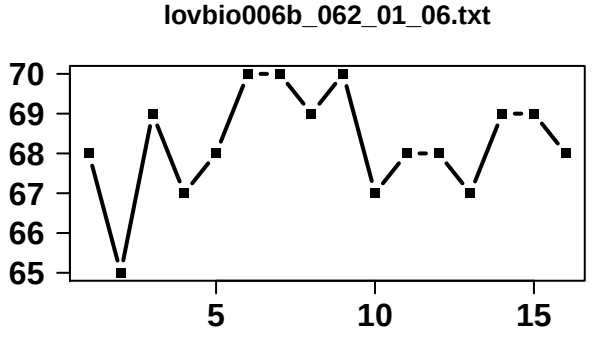

56
55
54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

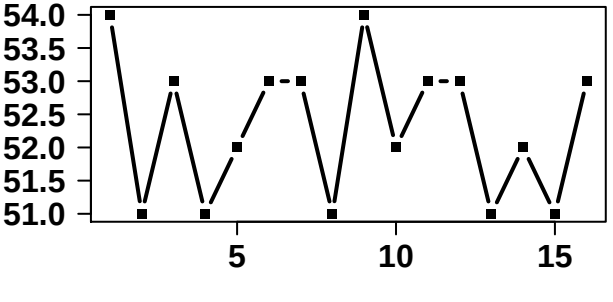

nb days: 8.3 freq: 9.9 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

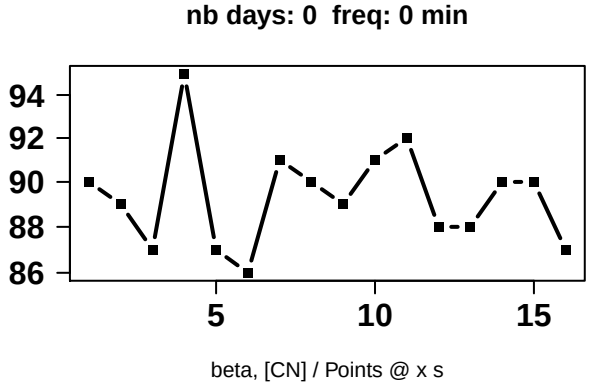

nb days: 8.3 freq: 59.4 min
0.28
0.26
0.24
0.22
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

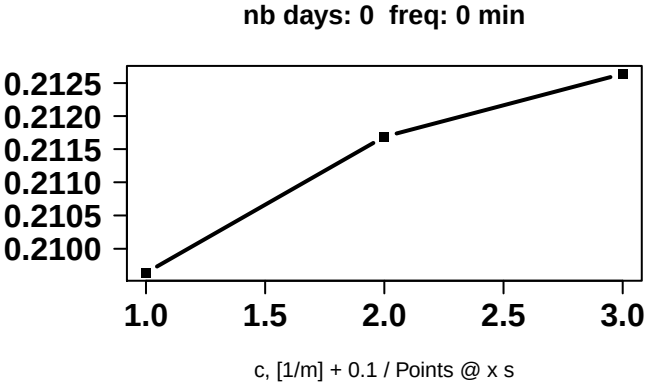

2014−06−10 11:14:38 2014−06−10 11:14:45
460
450
440
430
420
5
10
15
20
Pressure in

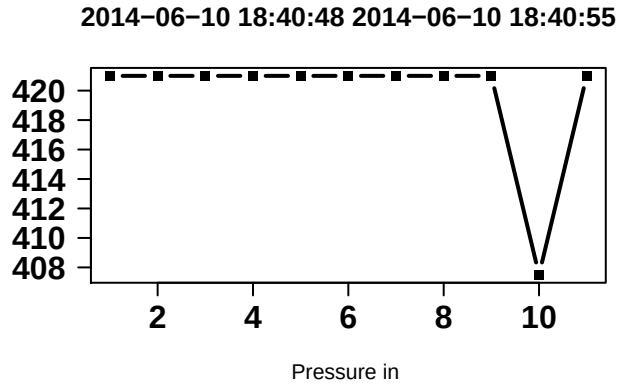

black 0.063 red 0.27
Seawater potential density anomaly
Seawater density − 1000
26.99
26.98
26.97
26.96
26.95
26.94
26.93
29.00
28.90
28.80
1.0
1.5
2.0
2.5
3.0

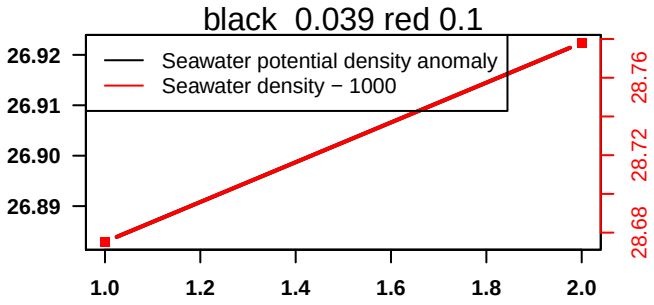

lovbio006b_062_01_06.txt
70
69
68
67
66
65
5
10
15
CDOM, [CN] / Points @ x s

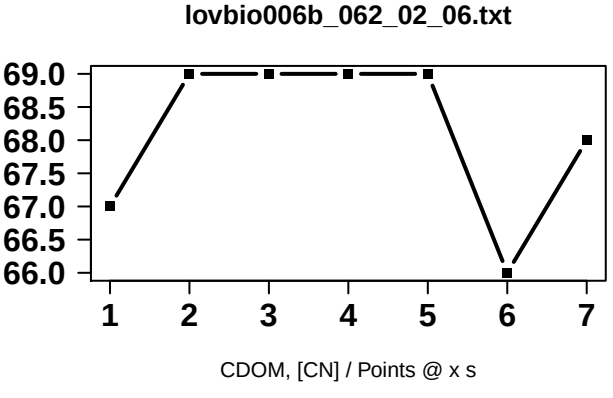

54.0
53.5
53.0
52.5
52.0
51.5
51.0
5
10
15
chl, [CN] / Points @ x s

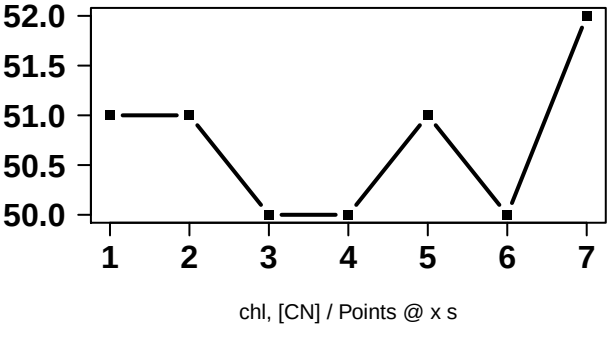

nb days: 0 freq: 0 min
94
92
90
88
86
5
10
15
beta, [CN] / Points @ x s

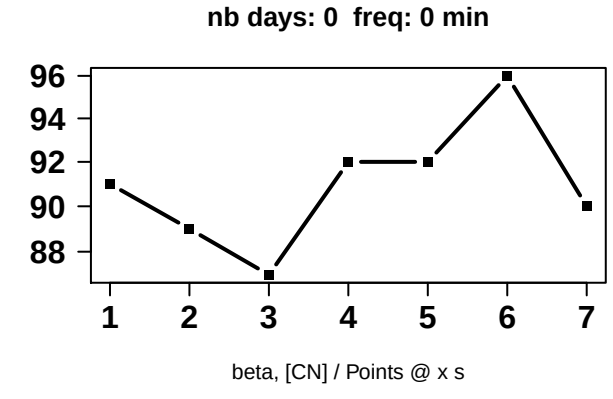

nb days: 0 freq: 0 min
0.2125
0.2120
0.2115
0.2110
0.2105
0.2100
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

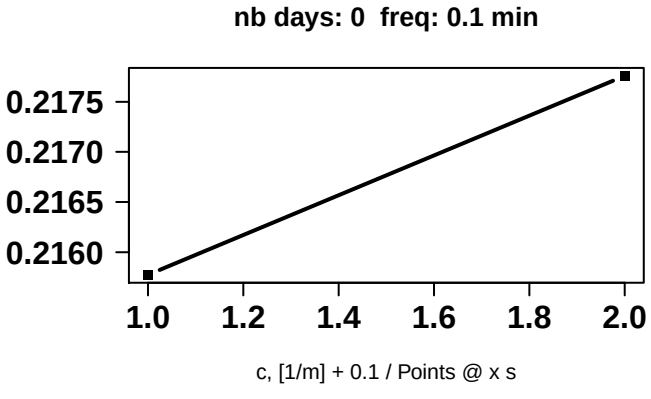

2014−06−10 18:40:48 2014−06−10 18:40:55
420
418
416
414
412
410
408
2
4
6
8
10
Pressure in

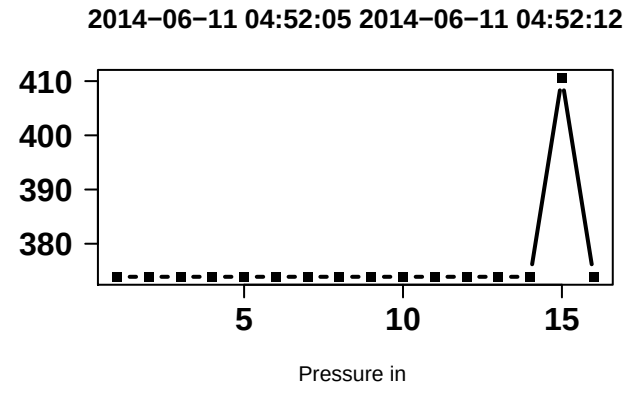

black 0.039 red 0.1
Seawater potential density anomaly
Seawater density − 1000
26.92
26.91
26.90
26.89
28.76
28.72
28.68
1.0
1.2
1.4
1.6
1.8
2.0

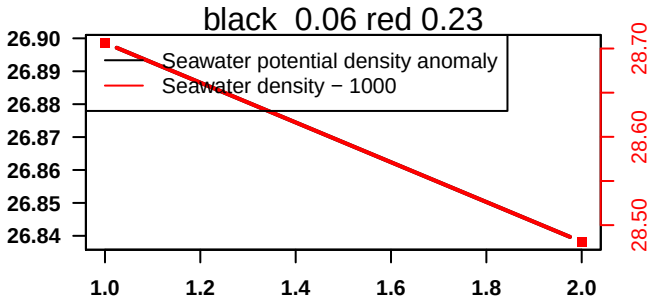

lovbio006b_062_02_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

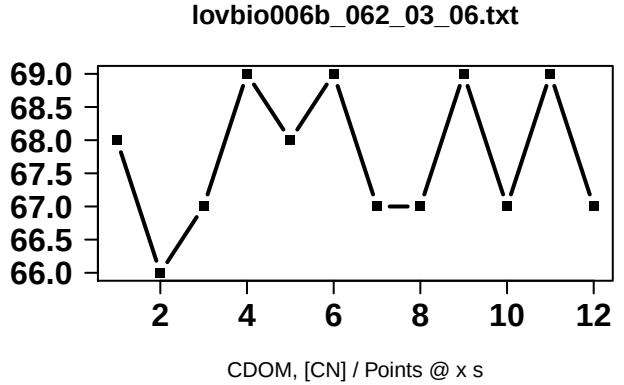

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

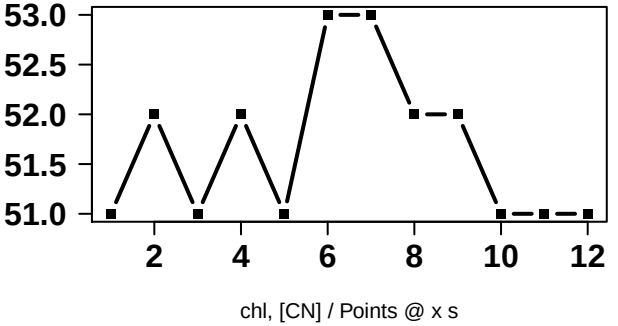

nb days: 0 freq: 0 min
96
94
92
90
88
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

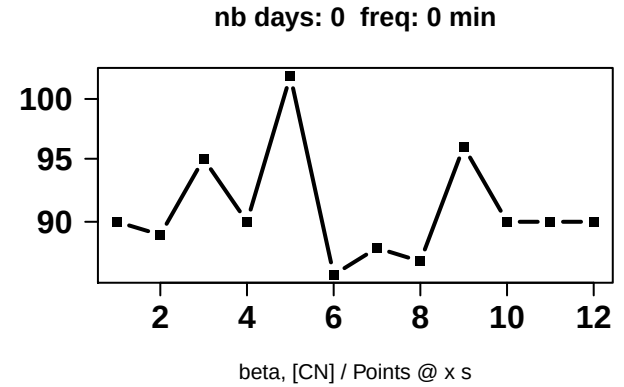

nb days: 0 freq: 0.1 min
0.2175
0.2170
0.2165
0.2160
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

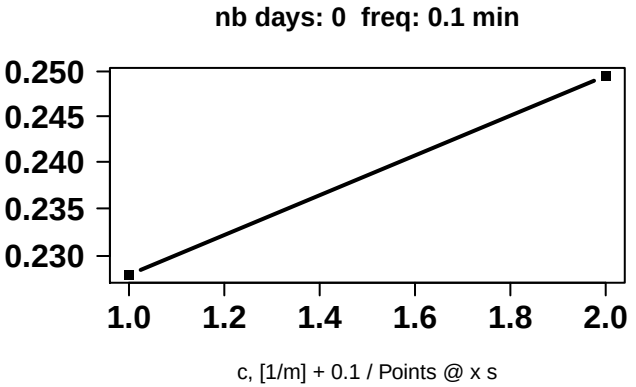

2014−06−11 04:52:05 2014−06−11 04:52:12
410
400
390
380
5
10
15
Pressure in

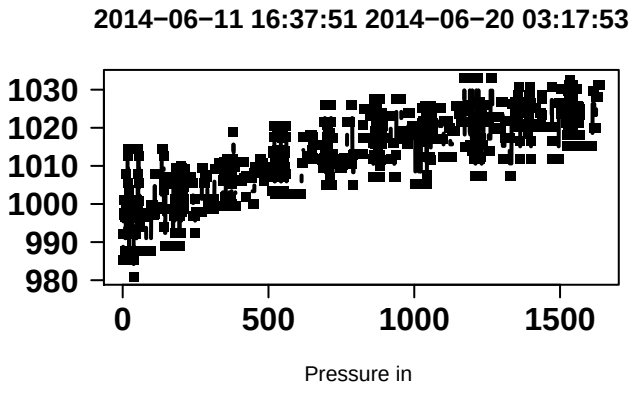

black 0.06 red 0.23
Seawater potential density anomaly
Seawater density − 1000
26.90
26.89
26.88
26.87
26.86
26.85
26.84
28.70
28.60
28.50
1.0
1.2
1.4
1.6
1.8
2.0

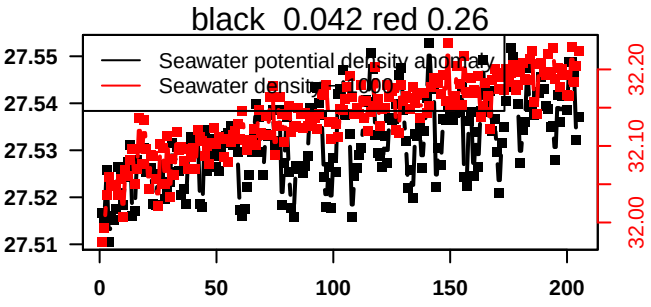

lovbio006b_062_03_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

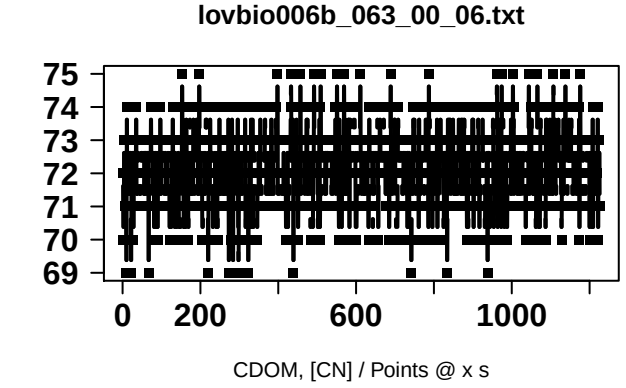

53.0
52.5
52.0
51.5
51.0
2
4
6
8
10
12
chl, [CN] / Points @ x s

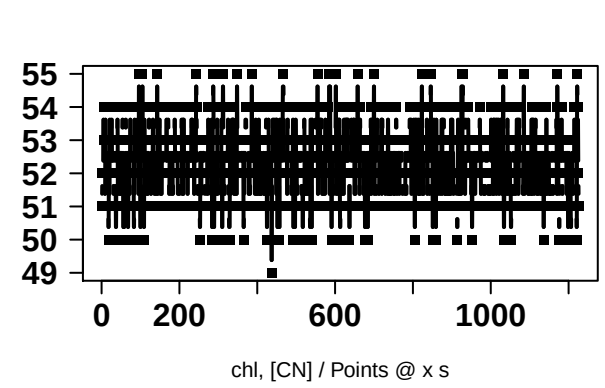

nb days: 0 freq: 0 min
100
95
90
2
4
6
8
10
12
beta, [CN] / Points @ x s

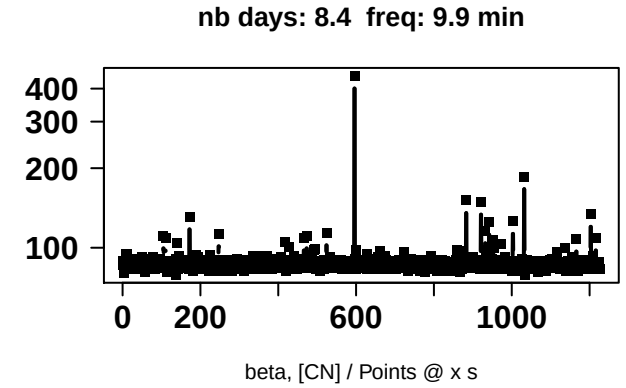

nb days: 0 freq: 0.1 min
0.250
0.245
0.240
0.235
0.230
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

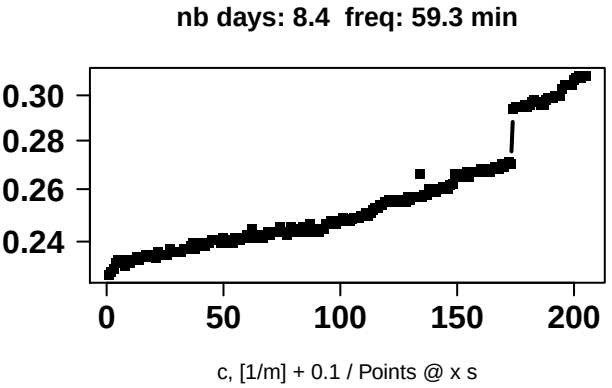

2014−06−11 16:37:51 2014−06−20 03:17:53
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

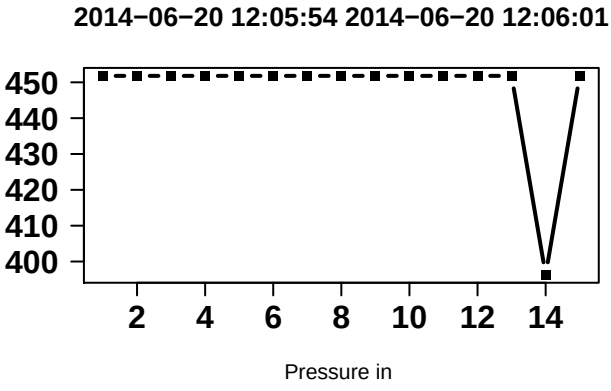

black 0.042 red 0.26
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
32.20
32.10
32.00
0
50
100
150
200

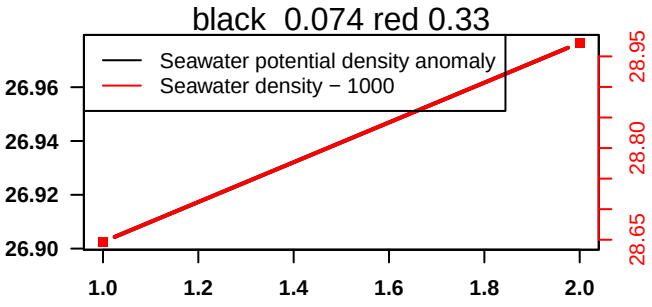

lovbio006b_063_00_06.txt
75
74
73
72
71
70
69
0
200
600
1000
CDOM, [CN] / Points @ x s

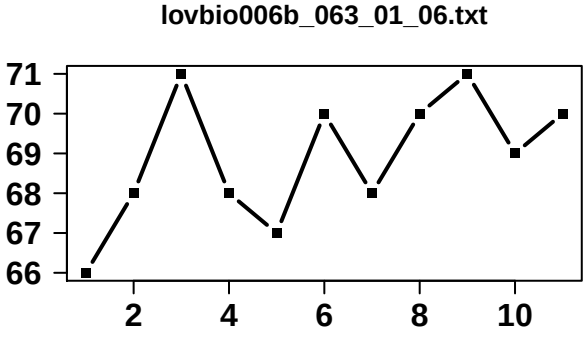

55
54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

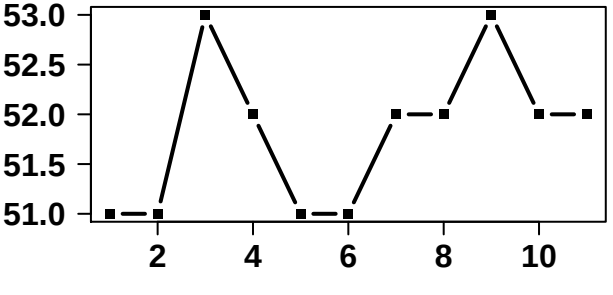

nb days: 8.4 freq: 9.9 min
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

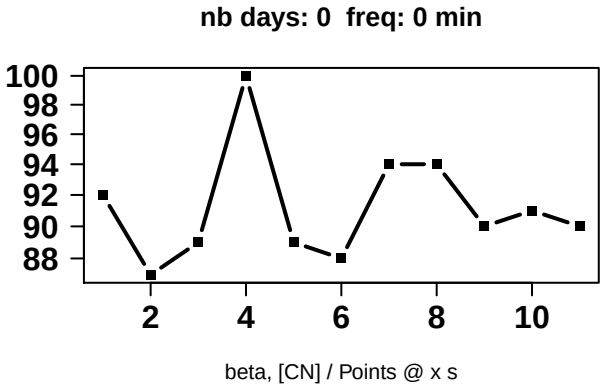

nb days: 8.4 freq: 59.3 min
0.30
0.28
0.26
0.24
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

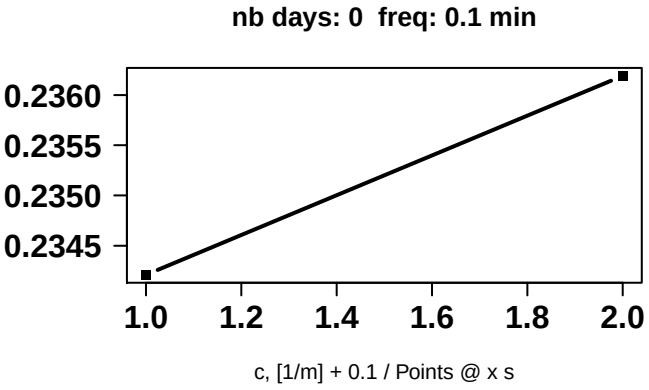

2014−06−20 12:05:54 2014−06−20 12:06:01
450
440
430
420
410
400
2
4
6
8
10
12
14
Pressure in

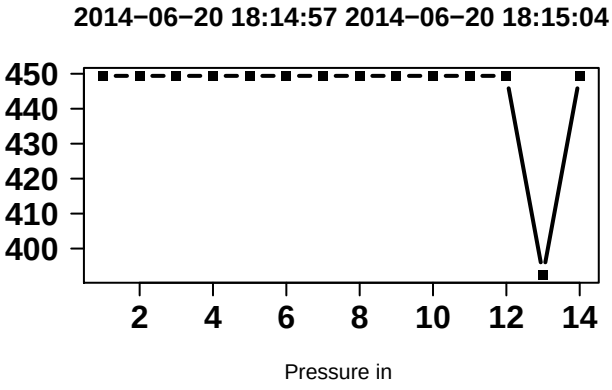

black 0.074 red 0.33
Seawater potential density anomaly
Seawater density − 1000
26.96
26.94
26.92
26.90
28.95
28.80
28.65
1.0
1.2
1.4
1.6
1.8
2.0

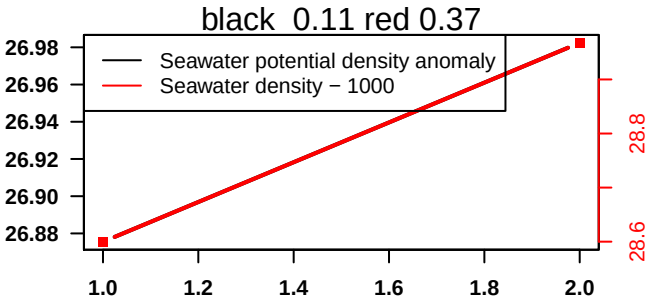

lovbio006b_063_01_06.txt
71
70
69
68
67
66
2
4
6
8
10
CDOM, [CN] / Points @ x s

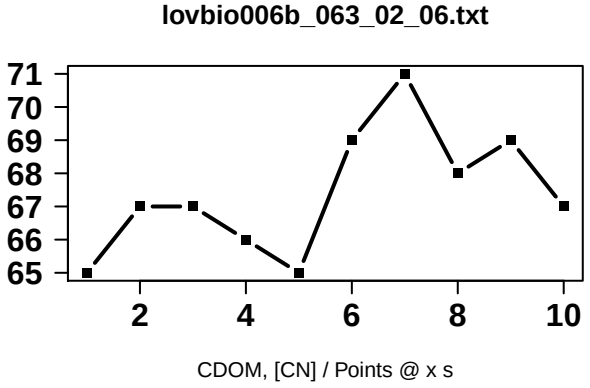

53.0
52.5
52.0
51.5
51.0
2
4
6
8
10
chl, [CN] / Points @ x s

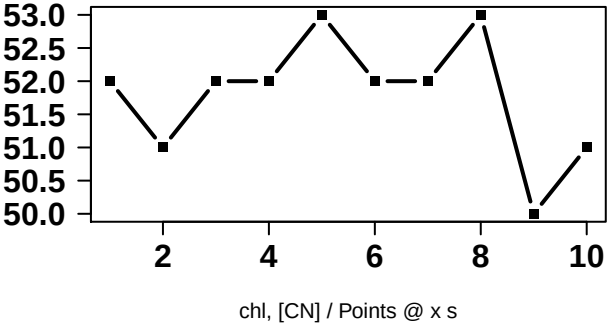

nb days: 0 freq: 0 min
100
98
96
94
92
90
88
2
4
6
8
10
beta, [CN] / Points @ x s

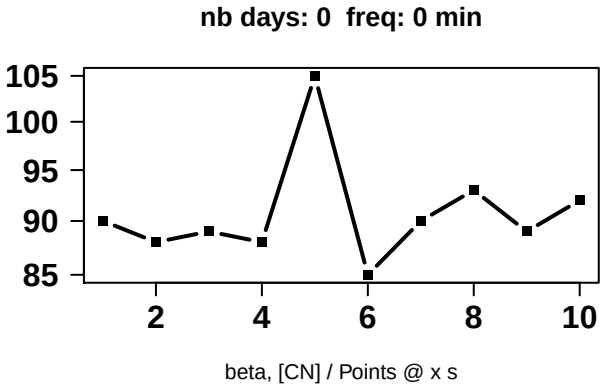

nb days: 0 freq: 0.1 min
0.2360
0.2355
0.2350
0.2345
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

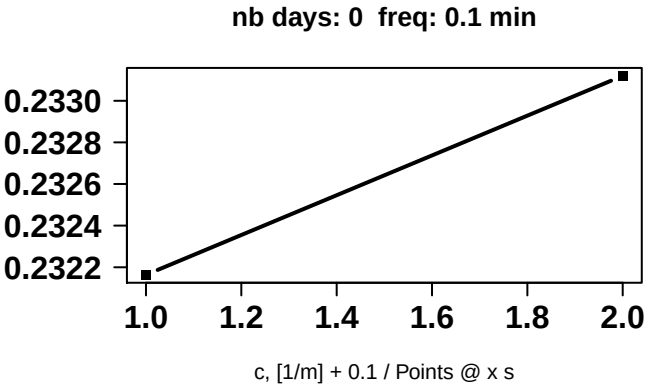

2014−06−20 18:14:57 2014−06−20 18:15:04
450
440
430
420
410
400
2
4
6
8
10
12
14
Pressure in

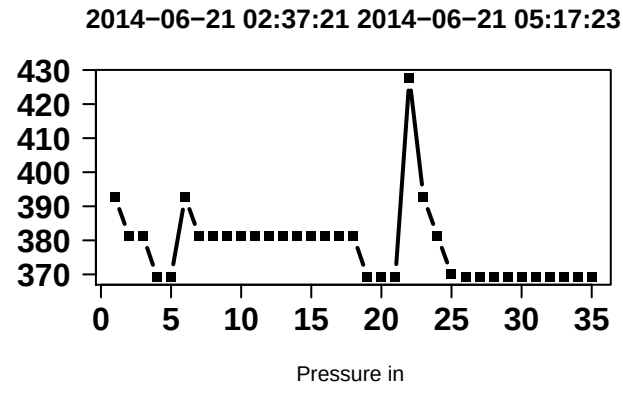

black 0.11 red 0.37
Seawater potential density anomaly
Seawater density − 1000
26.98
26.96
26.94
26.92
26.90
26.88
28.8
28.6
1.0
1.2
1.4
1.6
1.8
2.0

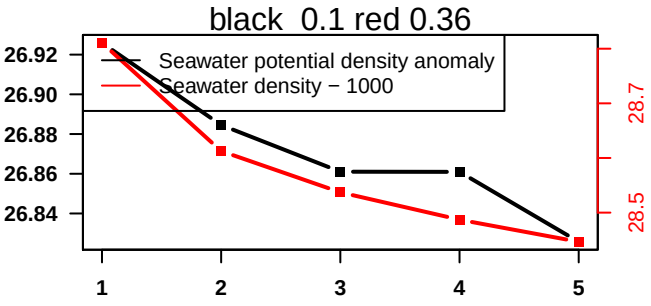

lovbio006b_063_02_06.txt
71
70
69
68
67
66
65
2
4
6
8
10
CDOM, [CN] / Points @ x s

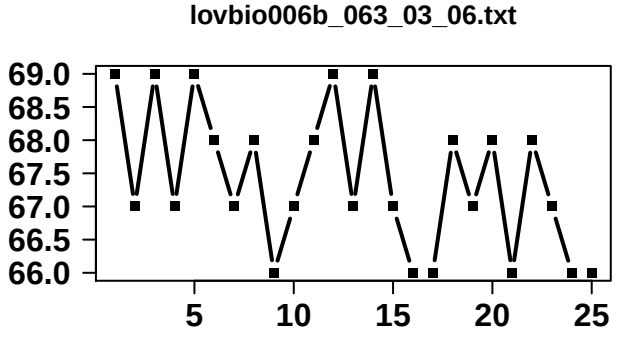

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

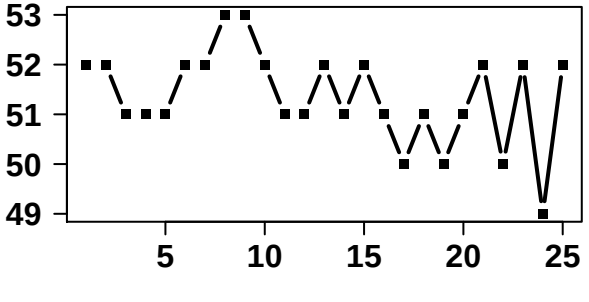

nb days: 0 freq: 0 min
105
100
95
90
85
2
4
6
8
10
beta, [CN] / Points @ x s

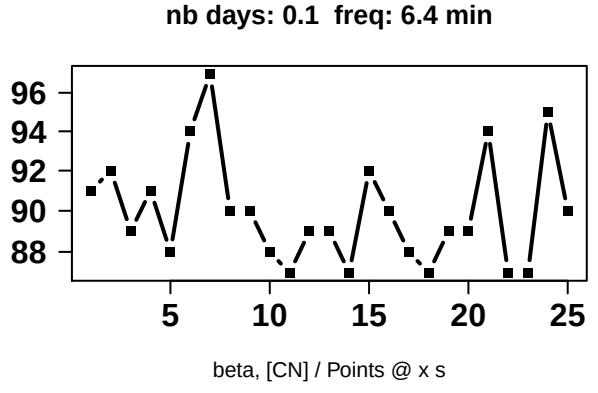

nb days: 0 freq: 0.1 min
0.2330
0.2328
0.2326
0.2324
0.2322
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

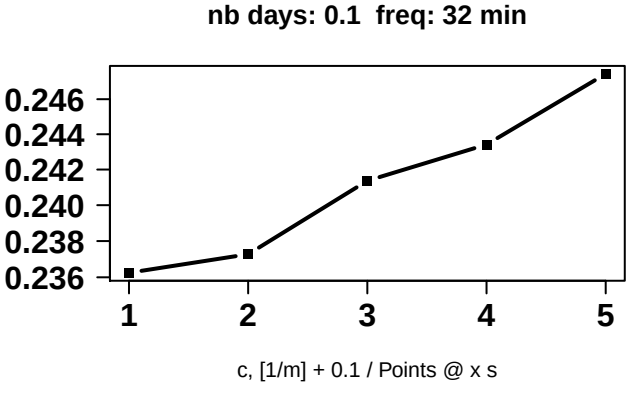

2014−06−21 02:37:21 2014−06−21 05:17:23
430
420
410
400
390
380
370
0
5
10
15
20
25
30
35
Pressure in

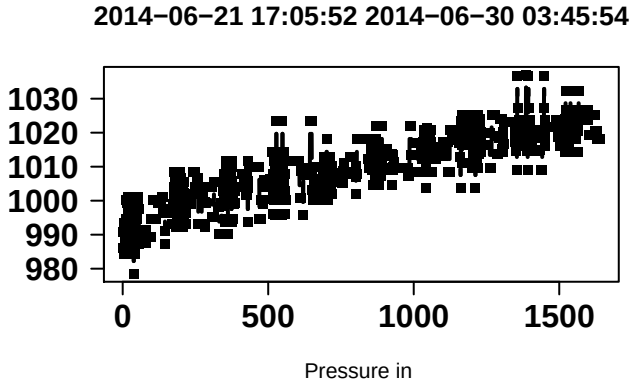

black 0.1 red 0.36
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
26.84
28.7
28.5
1
2
3
4
5

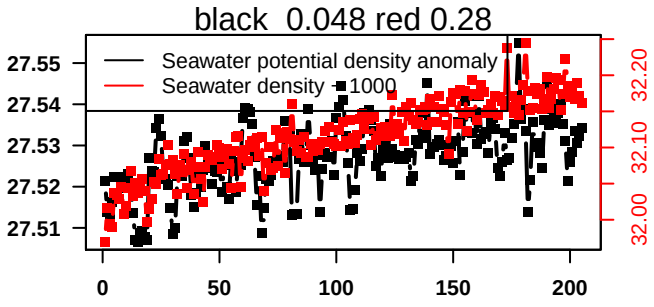

lovbio006b_063_03_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
5
10
15
20
25
CDOM, [CN] / Points @ x s

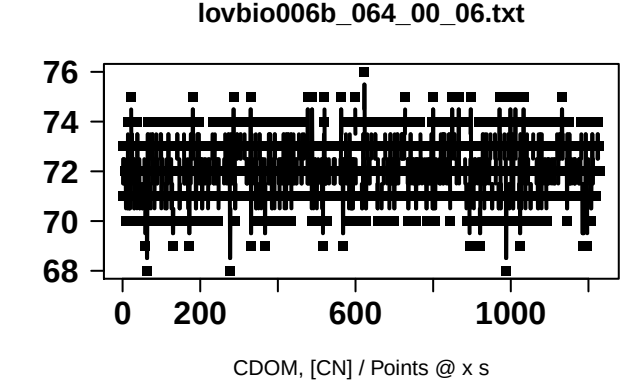

53
52
51
50
49
5
10
15
20
25
chl, [CN] / Points @ x s

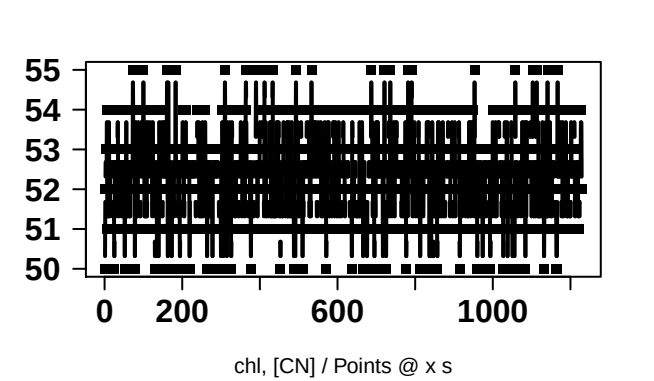

nb days: 0.1 freq: 6.4 min
96
94
92
90
88
5
10
15
20
25
beta, [CN] / Points @ x s

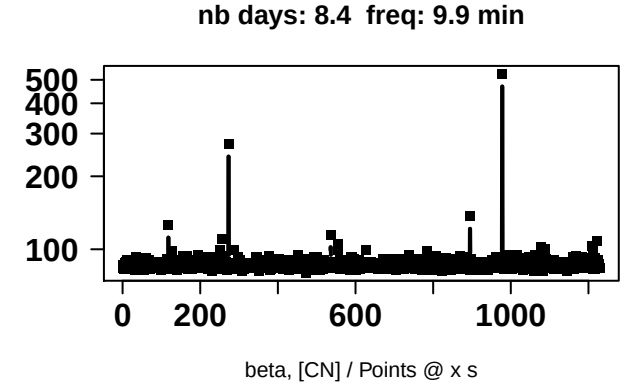

nb days: 0.1 freq: 32 min
0.246
0.244
0.242
0.240
0.238
0.236
1
2
3
4
5
c, [1/m] + 0.1 / Points @ x s

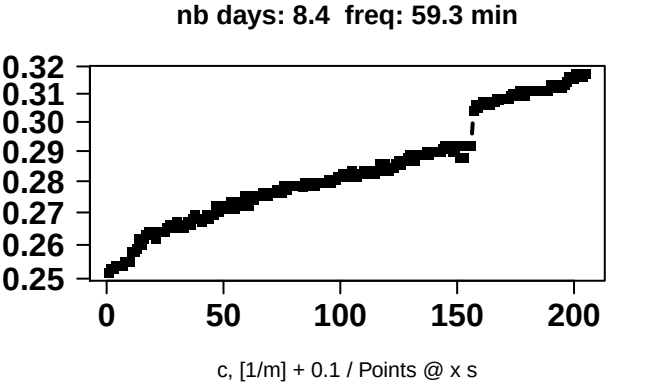

2014−06−21 17:05:52 2014−06−30 03:45:54
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

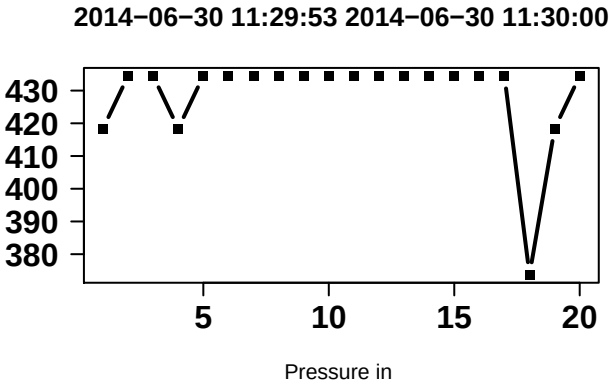

black 0.048 red 0.28
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
32.20
32.10
32.00
0
50
100
150
200

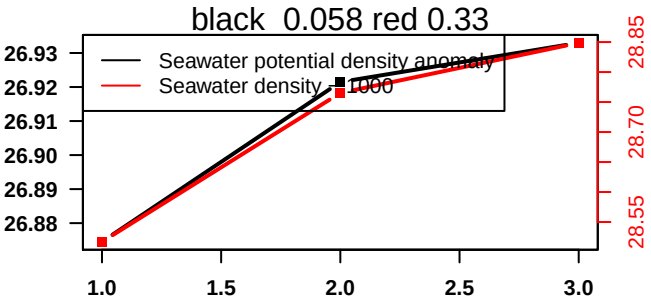

lovbio006b_064_00_06.txt
76
74
72
70
68
0
200
600
1000
CDOM, [CN] / Points @ x s

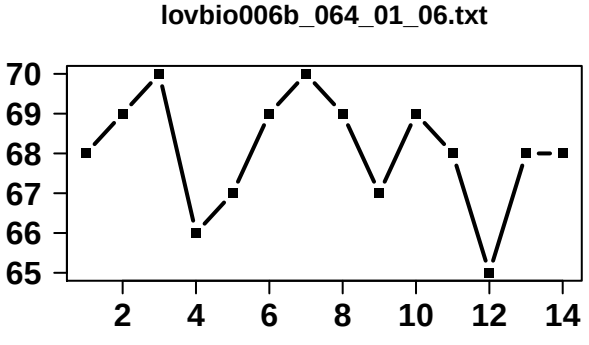

55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

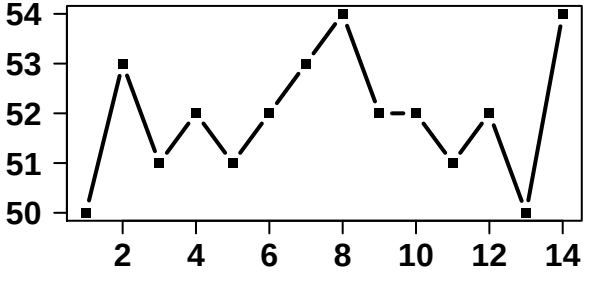

nb days: 8.4 freq: 9.9 min
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

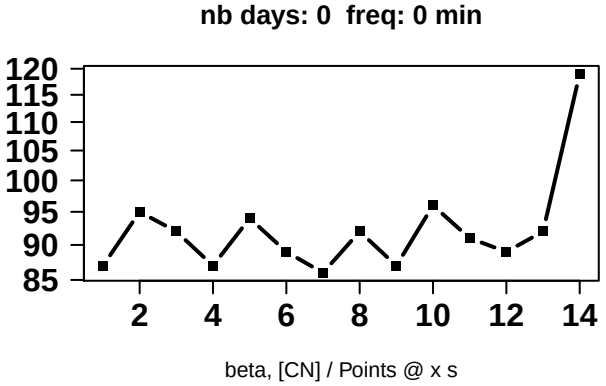

nb days: 8.4 freq: 59.3 min
0.32
0.31
0.30
0.29
0.28
0.27
0.26
0.25
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

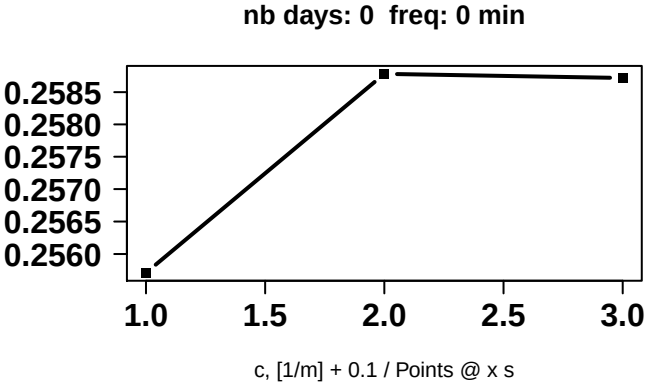

2014−06−30 11:29:53 2014−06−30 11:30:00
430
420
410
400
390
380
5
10
15
20
Pressure in

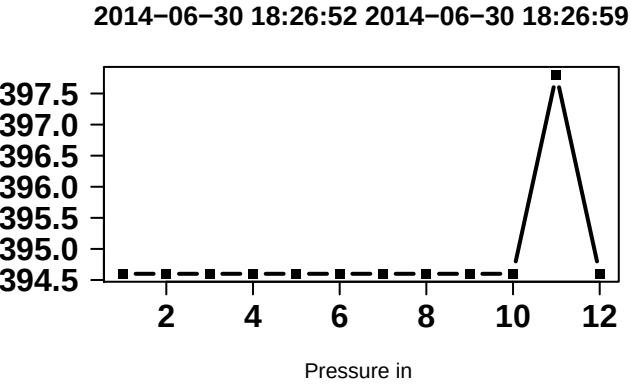

black 0.058 red 0.33
Seawater potential density anomaly
Seawater density − 1000
26.93
26.92
26.91
26.90
26.89
26.88
28.85
28.70
28.55
1.0
1.5
2.0
2.5
3.0

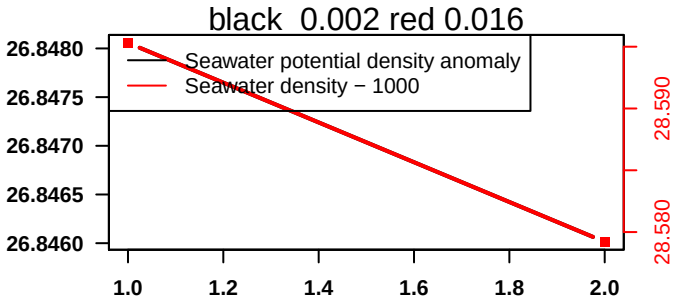

lovbio006b_064_01_06.txt
70
69
68
67
66
65
2
4
6
8
10
12
14
CDOM, [CN] / Points @ x s

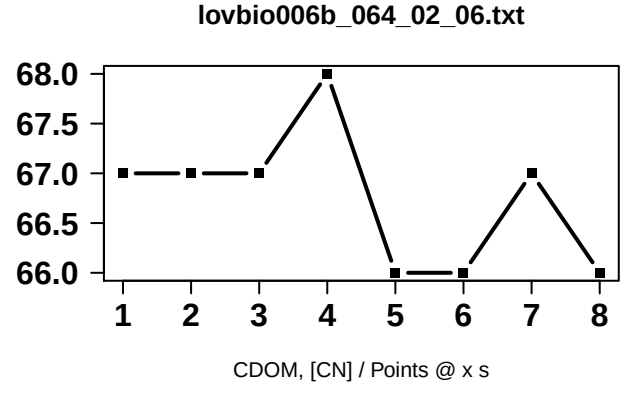

54
53
52
51
50
2
4
6
8
10
12
14
chl, [CN] / Points @ x s

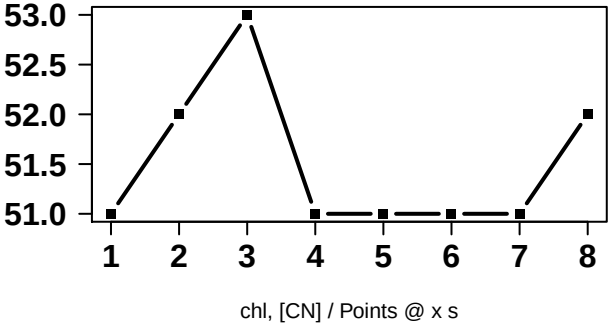

nb days: 0 freq: 0 min
120
115
110
105
100
95
90
85
2
4
6
8
10
12
14
beta, [CN] / Points @ x s

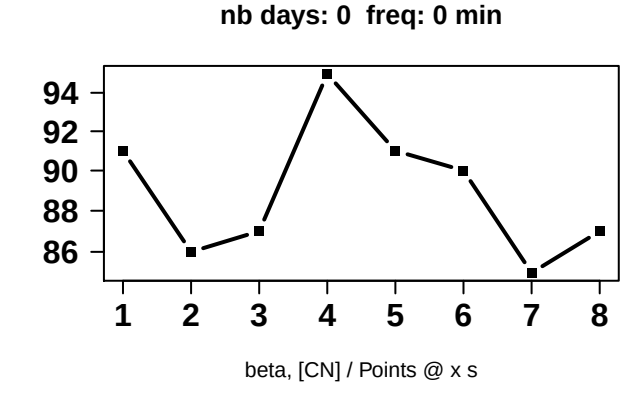

nb days: 0 freq: 0 min
0.2585
0.2580
0.2575
0.2570
0.2565
0.2560
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

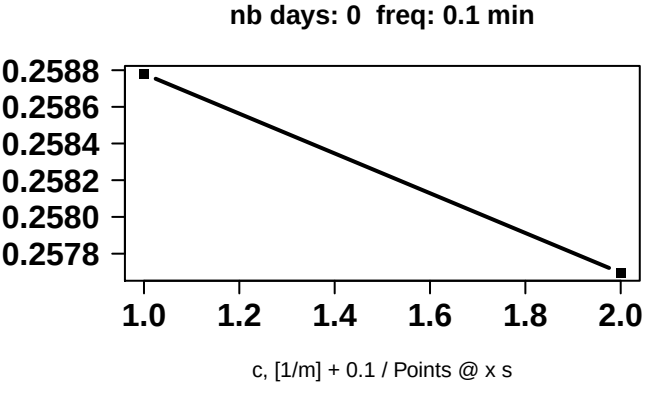

2014−06−30 18:26:52 2014−06−30 18:26:59
397.5
397.0
396.5
396.0
395.5
395.0
394.5
2
4
6
8
10
12
Pressure in

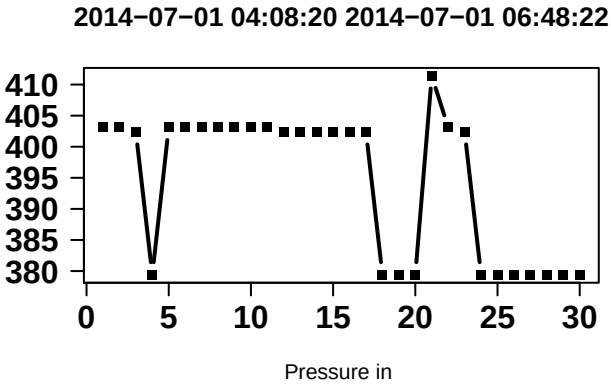

black 0.002 red 0.016
Seawater potential density anomaly
Seawater density − 1000
26.8480
26.8475
26.8470
26.8465
26.8460
28.590
28.580
1.0
1.2
1.4
1.6
1.8
2.0

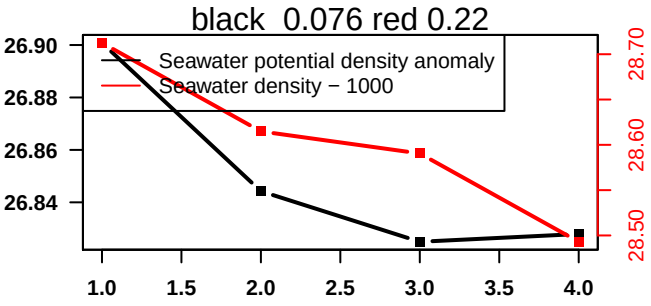

lovbio006b_064_02_06.txt
68.0
67.5
67.0
66.5
66.0
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

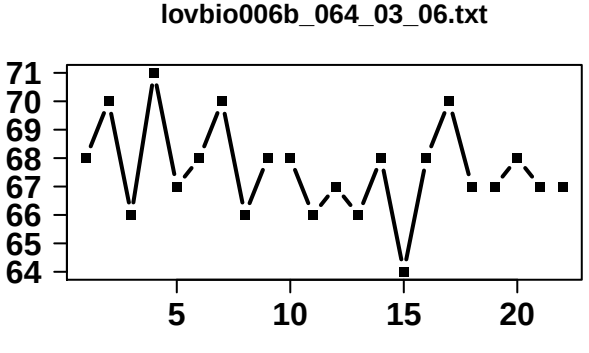

53.0
52.5
52.0
51.5
51.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

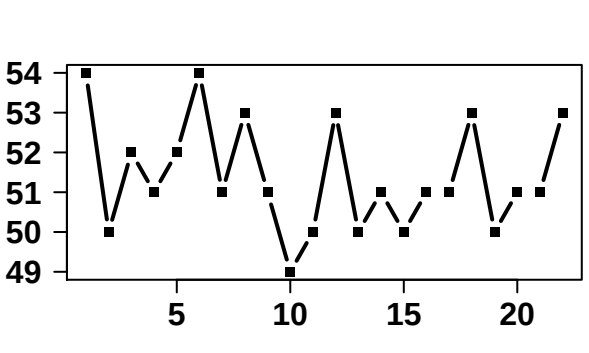

nb days: 0 freq: 0 min
94
92
90
88
86
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

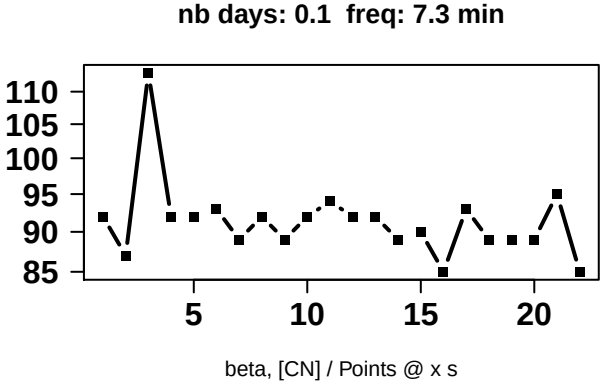

nb days: 0 freq: 0.1 min
0.2588
0.2586
0.2584
0.2582
0.2580
0.2578
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

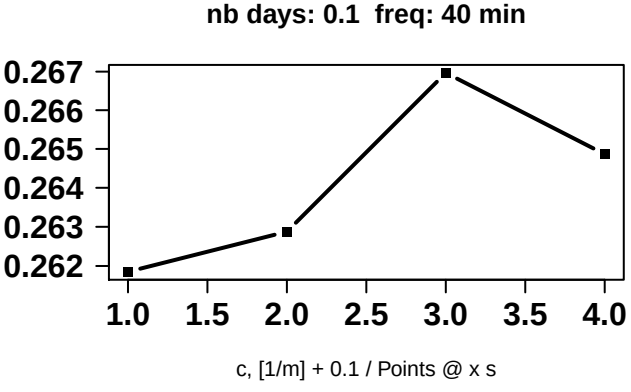

2014−07−01 04:08:20 2014−07−01 06:48:22
410
405
400
395
390
385
380
0
5
10
15
20
25
30
Pressure in

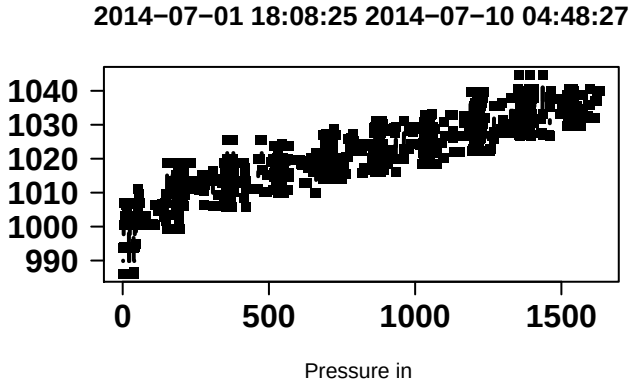

black 0.076 red 0.22
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
28.70
28.60
28.50
1.0
1.5
2.0
2.5
3.0
3.5
4.0

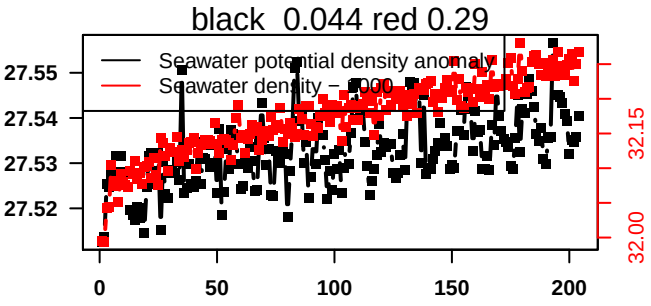

lovbio006b_064_03_06.txt
71
70
69
68
67
66
65
64
5
10
15
20
CDOM, [CN] / Points @ x s

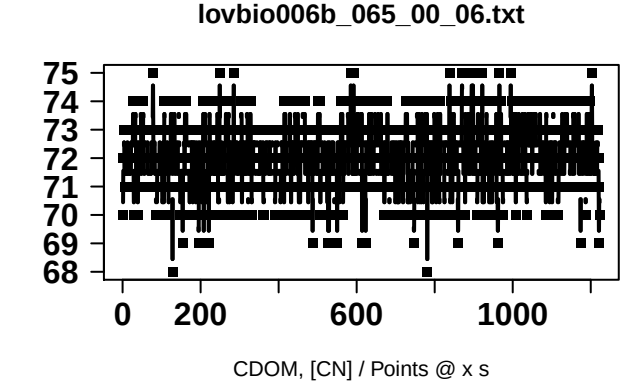

54
53
52
51
50
49
5
10
15
20
chl, [CN] / Points @ x s

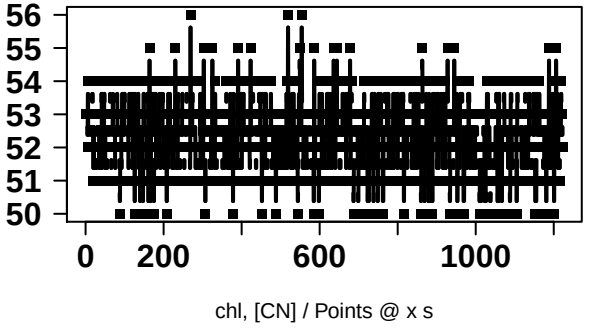

nb days: 0.1 freq: 7.3 min
110
105
100
95
90
85
5
10
15
20
beta, [CN] / Points @ x s

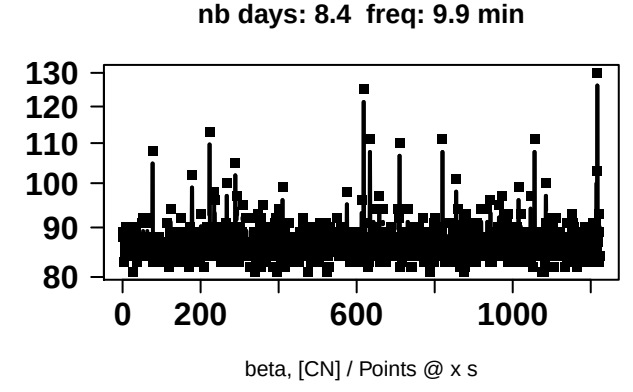

nb days: 0.1 freq: 40 min
0.267
0.266
0.265
0.264
0.263
0.262
1.0
1.5
2.0
2.5
3.0
3.5
4.0
c, [1/m] + 0.1 / Points @ x s

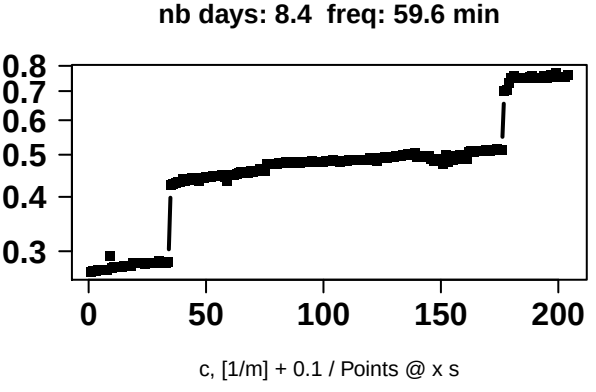

2014−07−01 18:08:25 2014−07−10 04:48:27
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

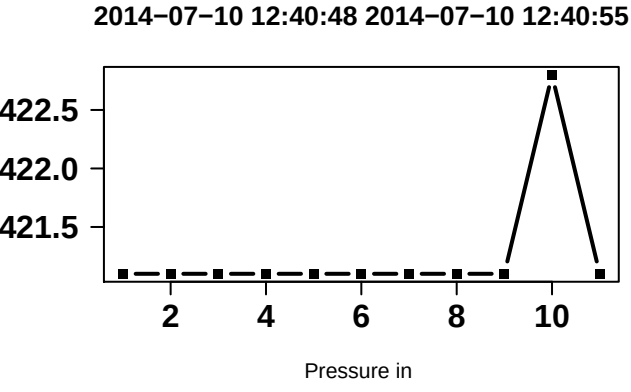

black 0.044 red 0.29
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
32.15
32.00
0
50
100
150
200

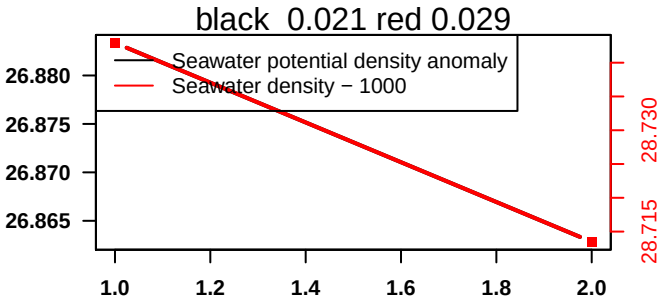

lovbio006b_065_00_06.txt
75
74
73
72
71
70
69
68
0
200
600
1000
CDOM, [CN] / Points @ x s

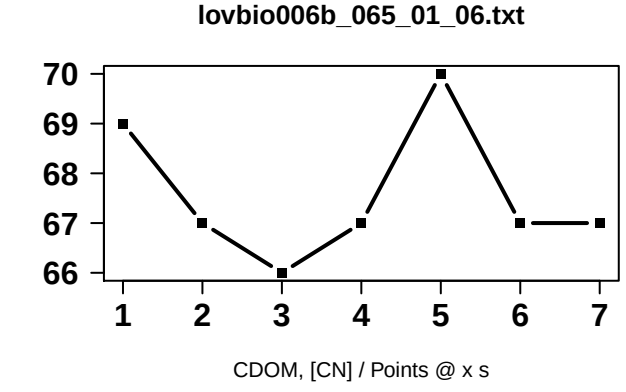

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

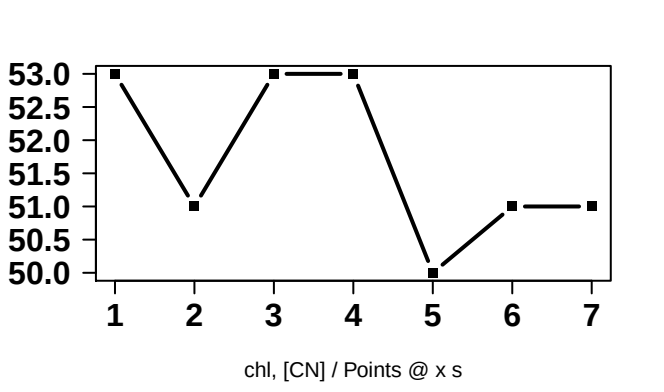

nb days: 8.4 freq: 9.9 min
130
120
110
100
90
80
0
200
600
1000
beta, [CN] / Points @ x s

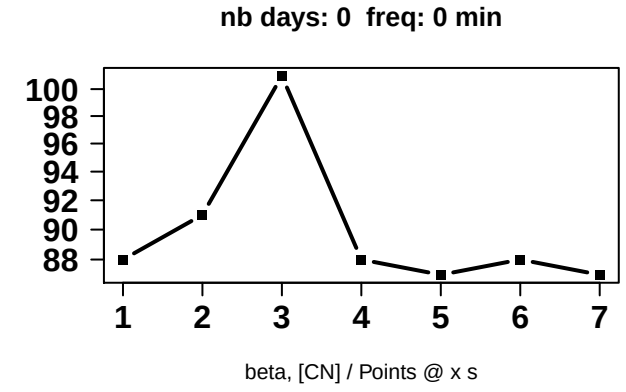

nb days: 8.4 freq: 59.6 min
0.8
0.7
0.6
0.5
0.4
0.3
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

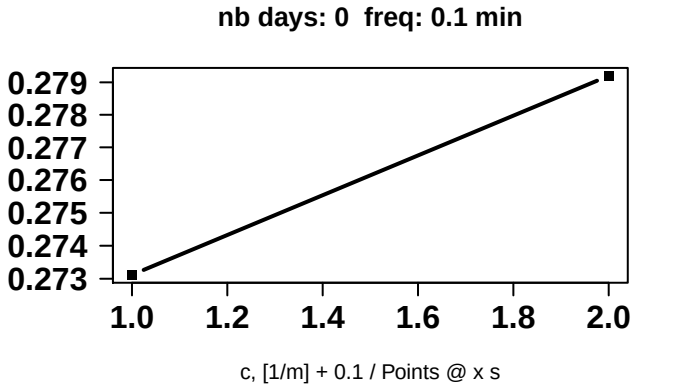

2014−07−10 12:40:48 2014−07−10 12:40:55
422.5
422.0
421.5
2
4
6
8
10
Pressure in

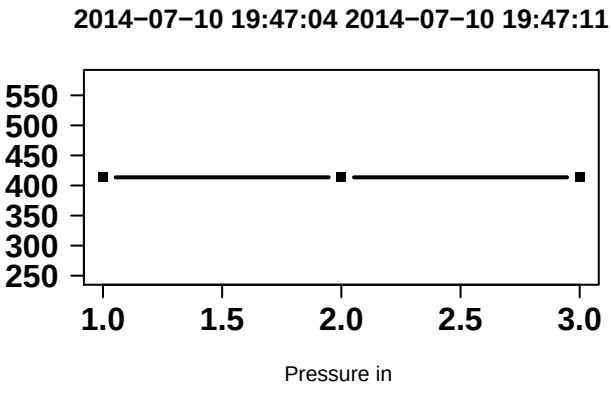

black 0.021 red 0.029
Seawater potential density anomaly
Seawater density − 1000
26.880
26.875
26.870
26.865
28.730
28.715
1.0
1.2
1.4
1.6
1.8
2.0

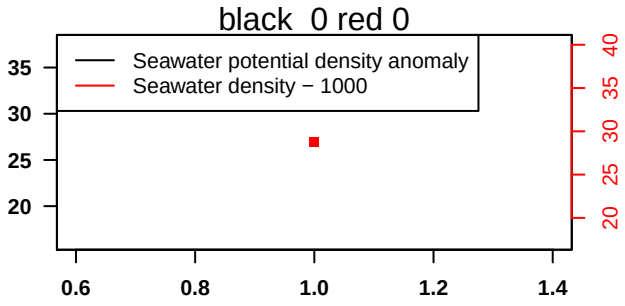

lovbio006b_065_01_06.txt
70
69
68
67
66
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

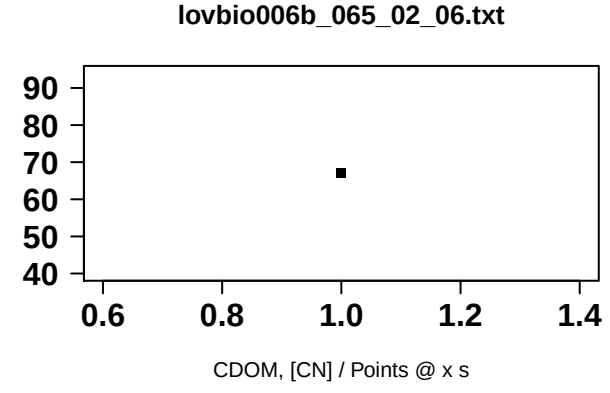

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

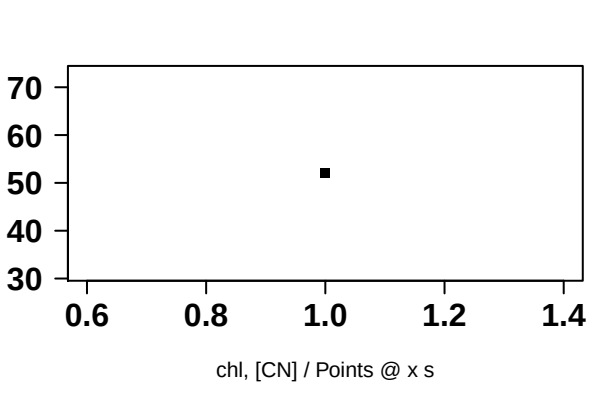

nb days: 0 freq: 0 min
100
98
96
94
92
90
88
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

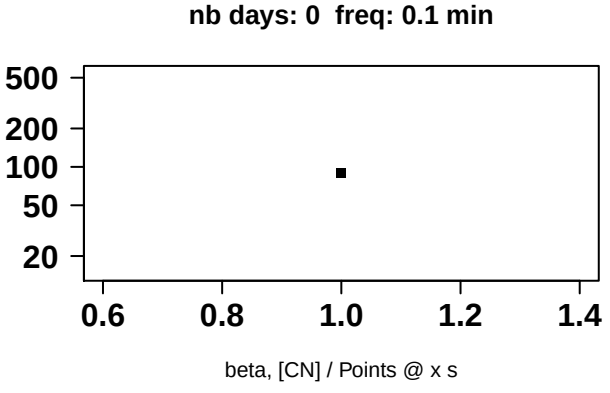

nb days: 0 freq: 0.1 min
0.279
0.278
0.277
0.276
0.275
0.274
0.273
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

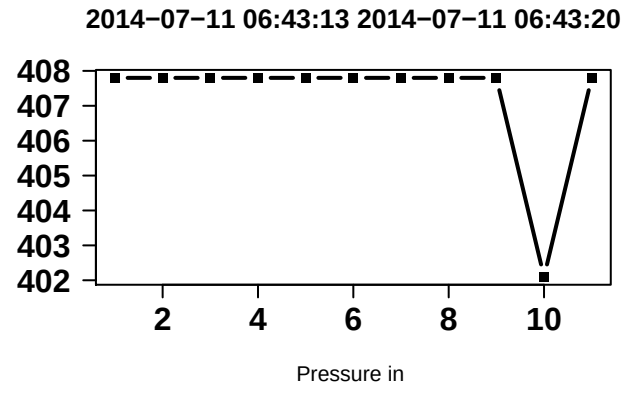

2014−07−10 19:47:04 2014−07−10 19:47:11
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
Pressure in

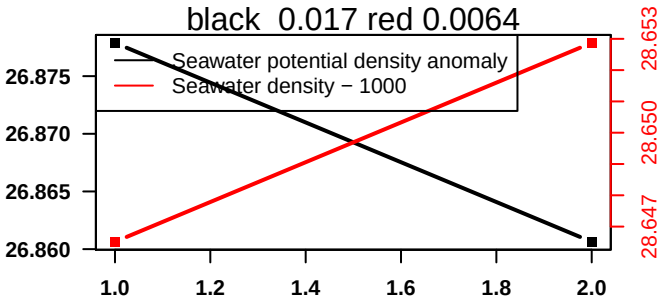

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

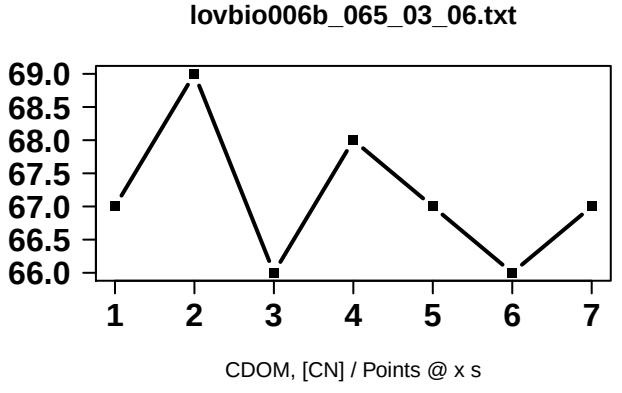

lovbio006b_065_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

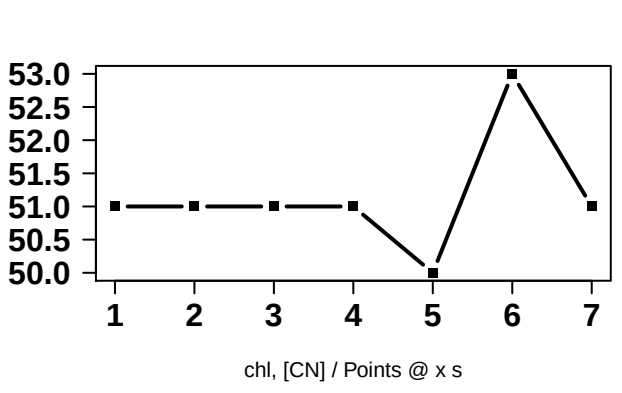

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

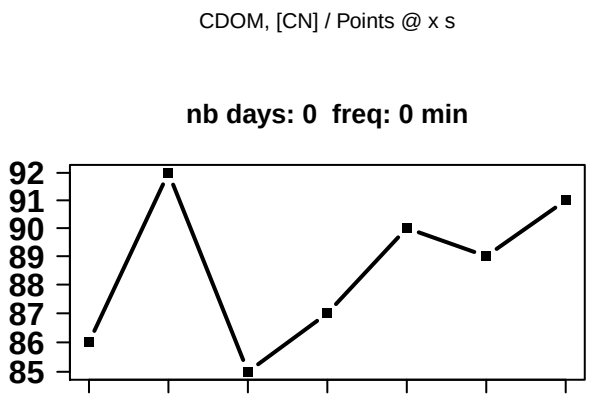

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

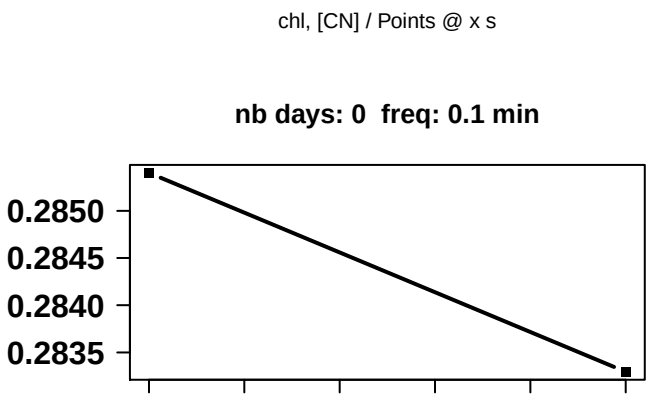

2014−07−11 06:43:13 2014−07−11 06:43:20
408
407
406
405
404
403
402
2
4
6
8
10
Pressure in

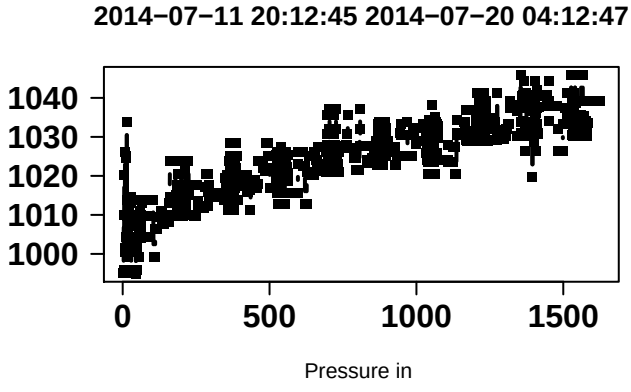

black 0.017 red 0.0064
Seawater potential density anomaly
Seawater density − 1000
26.875
26.870
26.865
26.860
28.653
28.650
28.647
1.0
1.2
1.4
1.6
1.8
2.0

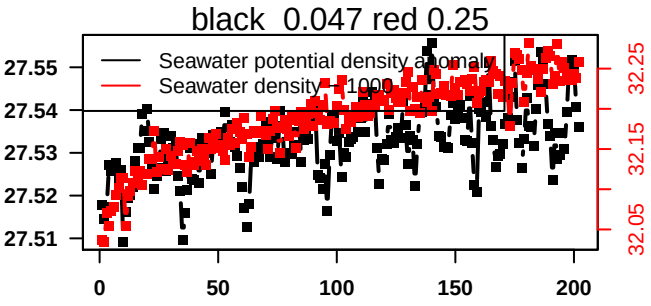

lovbio006b_065_03_06.txt
69.0
68.5
68.0
67.5
67.0
66.5
66.0
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

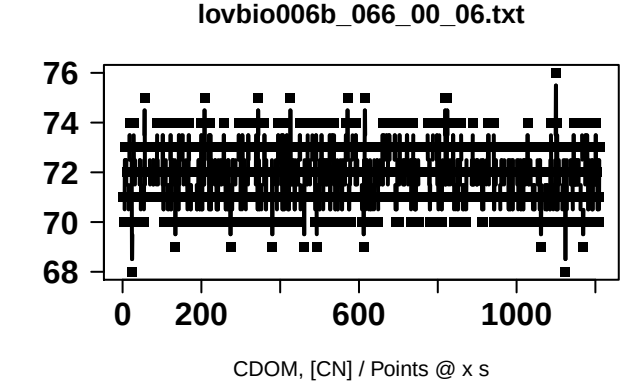

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

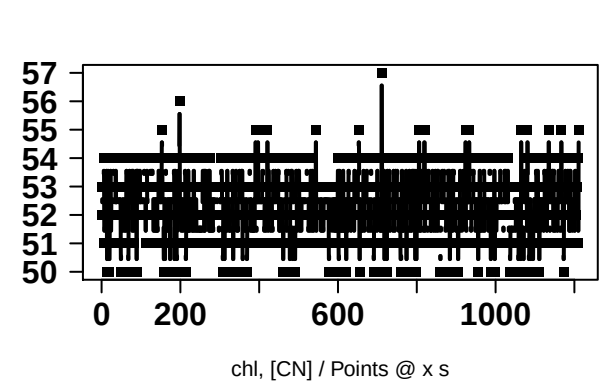

nb days: 0 freq: 0 min
92
91
90
89
88
87
86
85
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

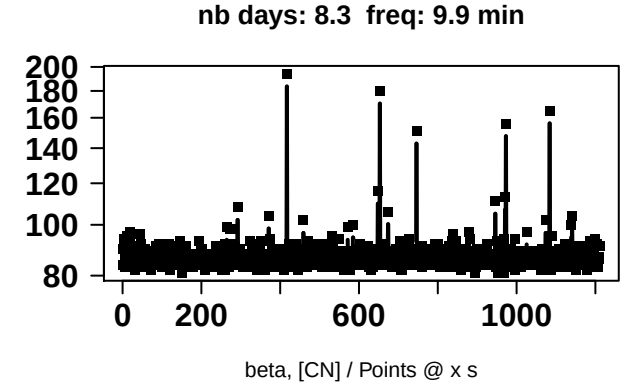

nb days: 0 freq: 0.1 min
0.2850
0.2845
0.2840
0.2835
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

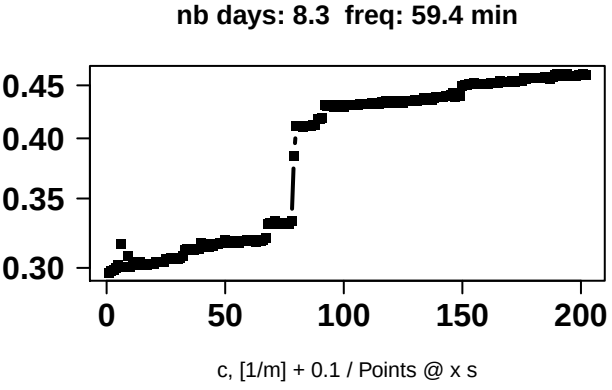

2014−07−11 20:12:45 2014−07−20 04:12:47
1040
1030
1020
1010
1000
0
500
1000
1500
Pressure in

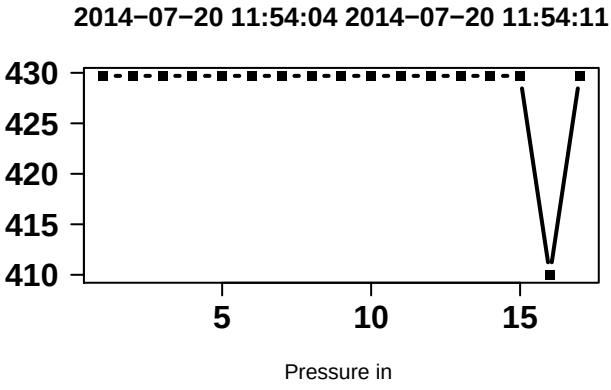

black 0.047 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
32.25
32.15
32.05
0
50
100
150
200

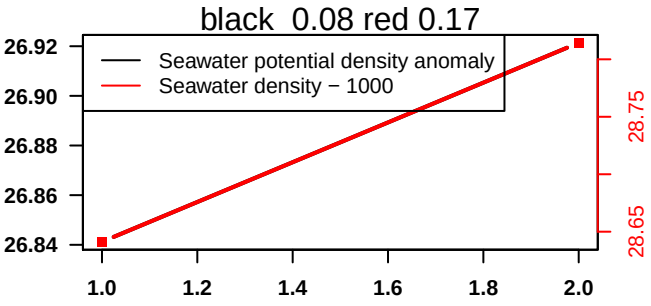

lovbio006b_066_00_06.txt
76
74
72
70
68
0
200
600
1000
CDOM, [CN] / Points @ x s

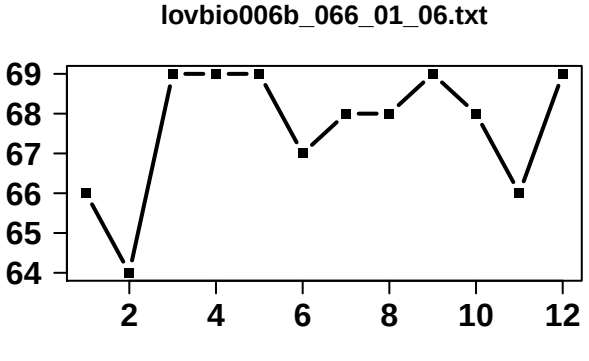

57
56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

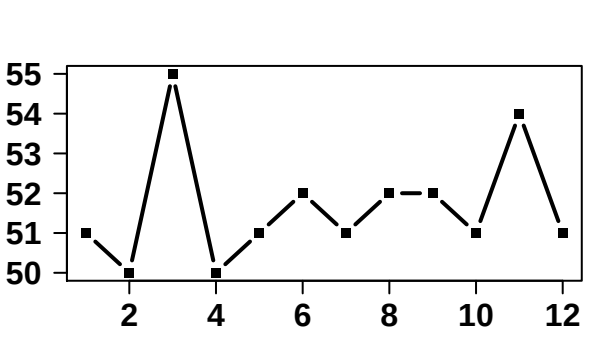

nb days: 8.3 freq: 9.9 min
200
180
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

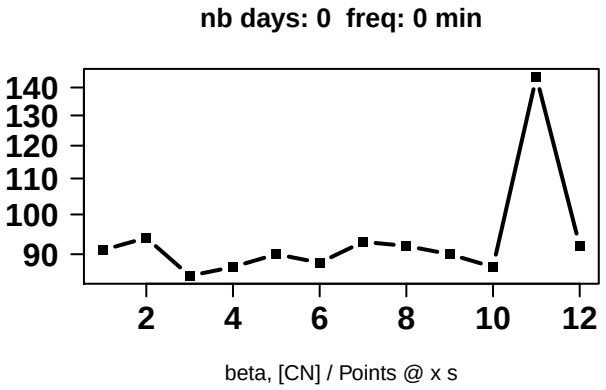

nb days: 8.3 freq: 59.4 min
0.45
0.40
0.35
0.30
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

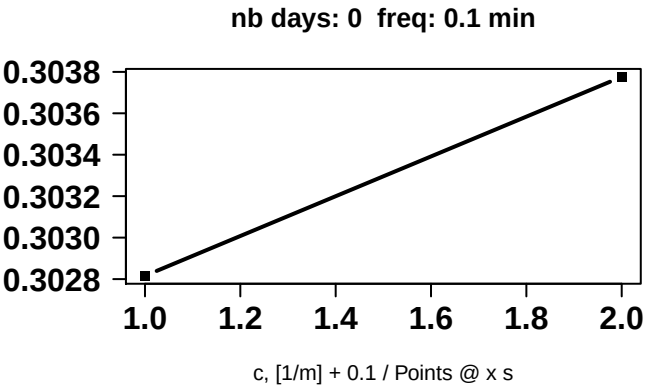

2014−07−20 11:54:04 2014−07−20 11:54:11
430
425
420
415
410
5
10
15
Pressure in

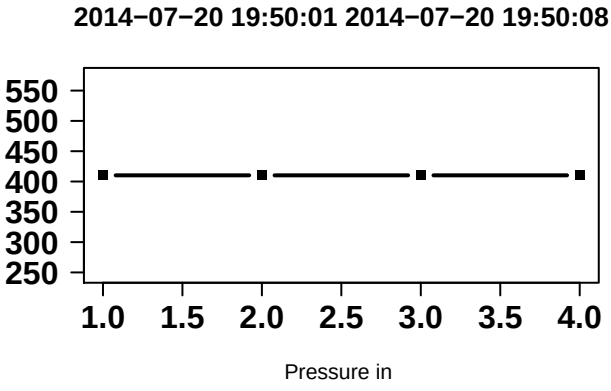

black 0.08 red 0.17
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
26.84
28.75
28.65
1.0
1.2
1.4
1.6
1.8
2.0

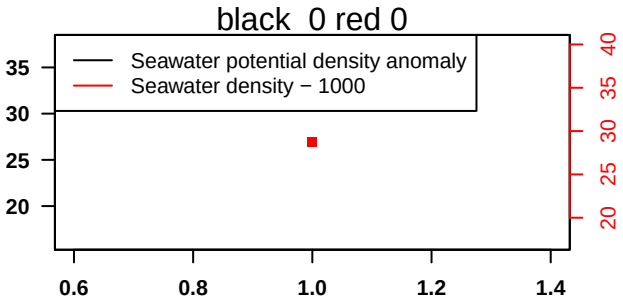

lovbio006b_066_01_06.txt
69
68
67
66
65
64
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

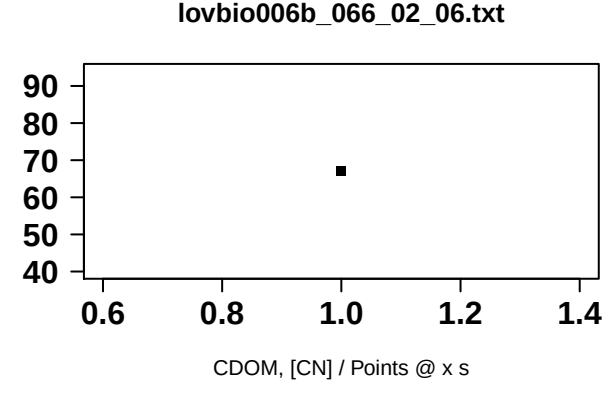

55
54
53
52
51
50
2
4
6
8
10
12
chl, [CN] / Points @ x s

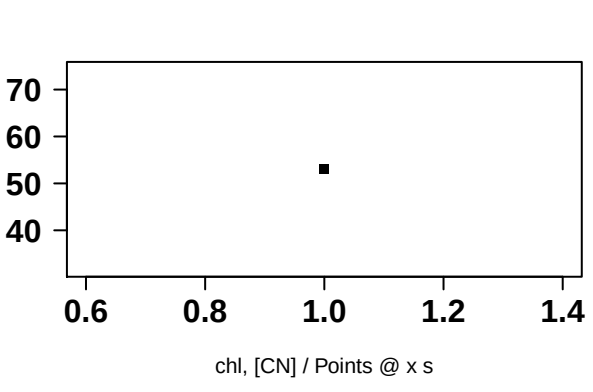

nb days: 0 freq: 0 min
140
130
120
110
100
90
2
4
6
8
10
12
beta, [CN] / Points @ x s

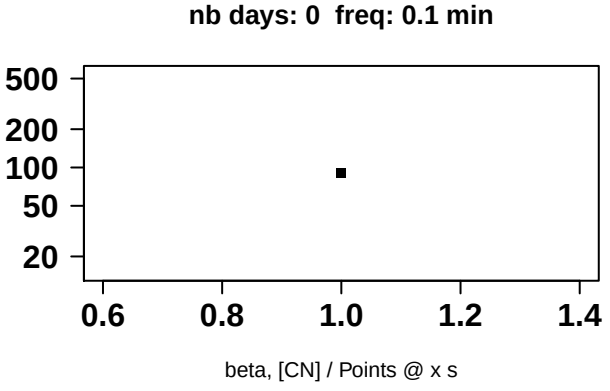

nb days: 0 freq: 0.1 min
0.3038
0.3036
0.3034
0.3032
0.3030
0.3028
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

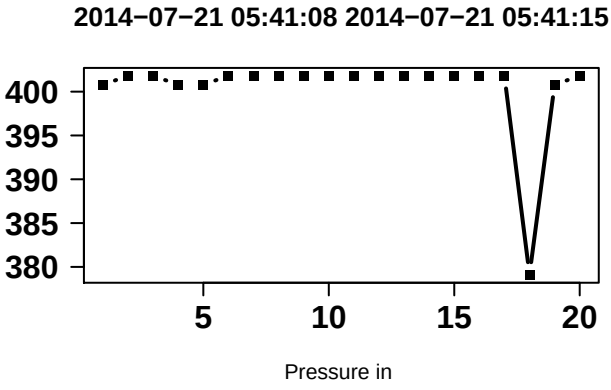

2014−07−20 19:50:01 2014−07−20 19:50:08
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

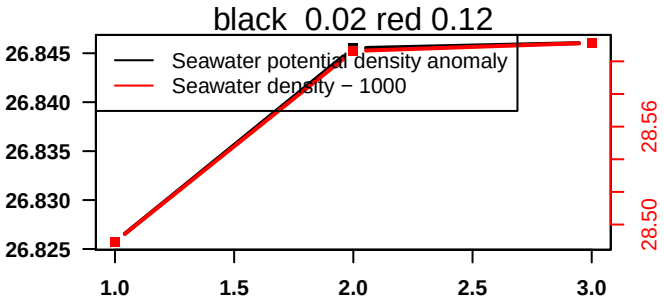

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

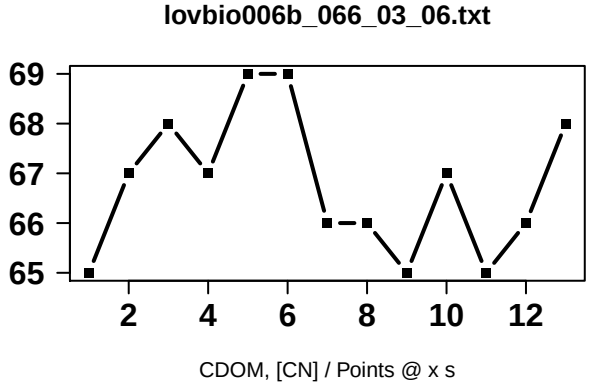

lovbio006b_066_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

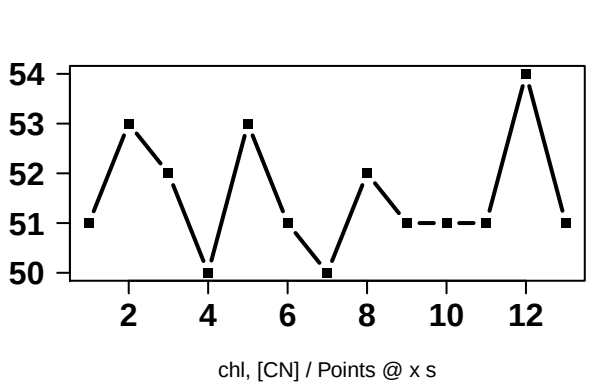

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

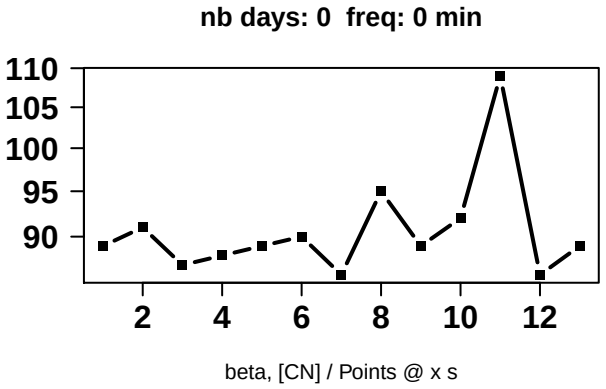

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

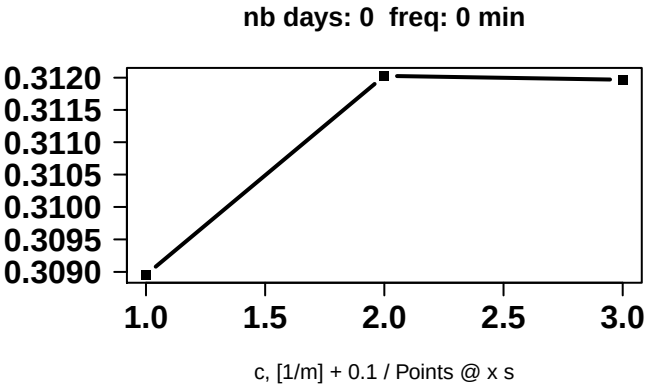

2014−07−21 05:41:08 2014−07−21 05:41:15
400
395
390
385
380
5
10
15
20
Pressure in

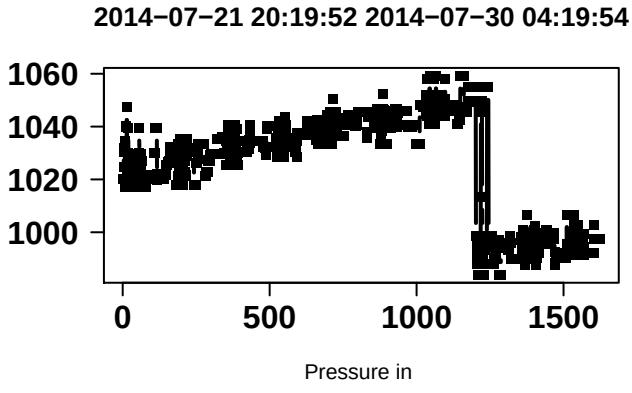

black 0.02 red 0.12
Seawater potential density anomaly
Seawater density − 1000
26.845
26.840
26.835
26.830
26.825
28.56
28.50
1.0
1.5
2.0
2.5
3.0

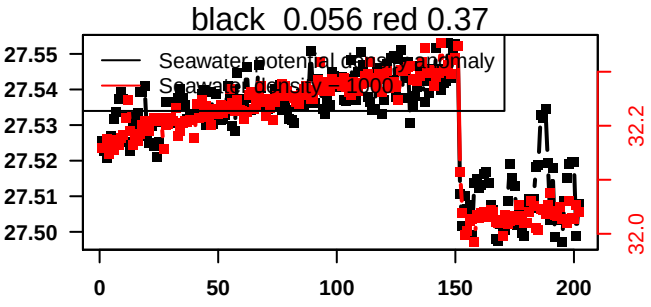

lovbio006b_066_03_06.txt
69
68
67
66
65
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

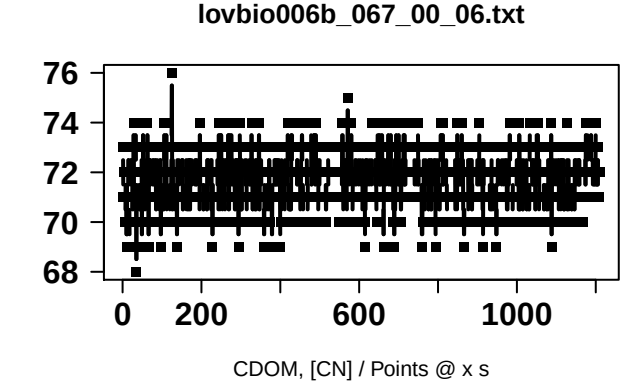

54
53
52
51
50
2
4
6
8
10
12
chl, [CN] / Points @ x s

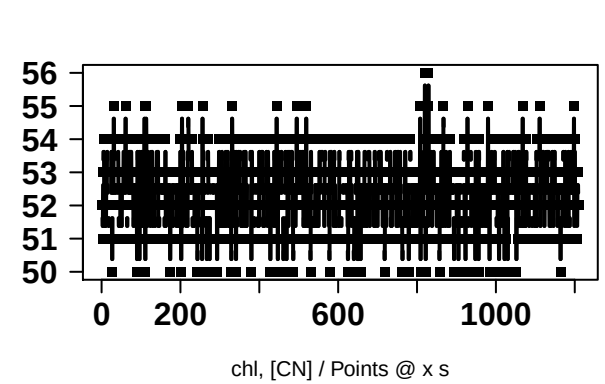

nb days: 0 freq: 0 min
110
105
100
95
90
2
4
6
8
10
12
beta, [CN] / Points @ x s

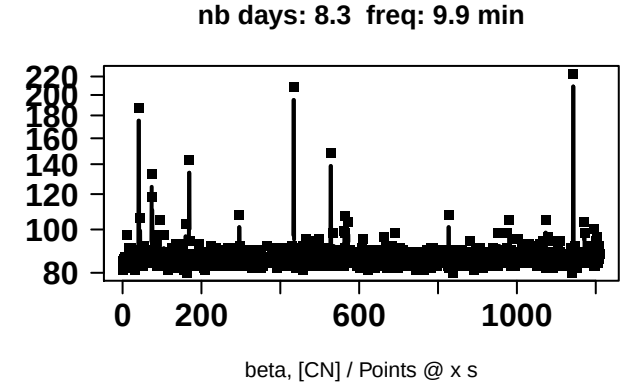

nb days: 0 freq: 0 min
0.3120
0.3115
0.3110
0.3105
0.3100
0.3095
0.3090
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

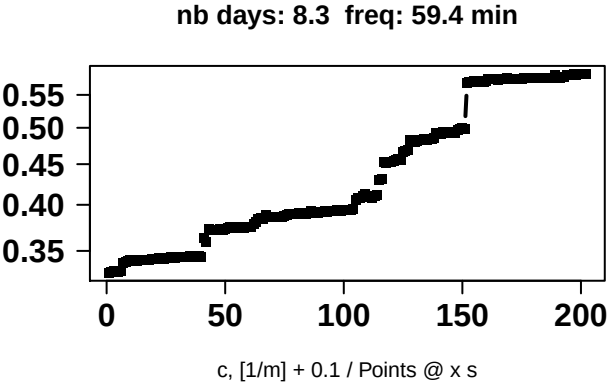

2014−07−21 20:19:52 2014−07−30 04:19:54
1060
1040
1020
1000
0
500
1000
1500
Pressure in

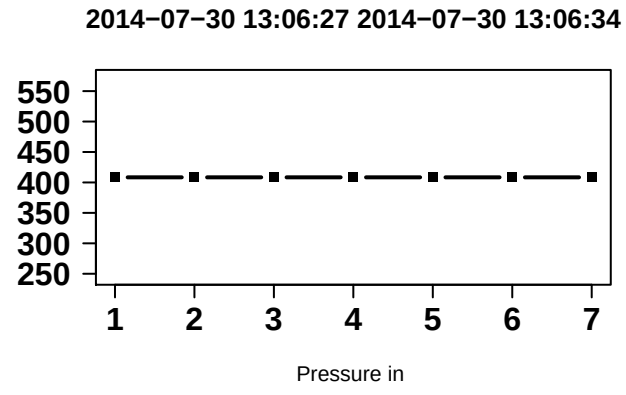

black 0.056 red 0.37
Seawater potential density anomaly
Seawater density − 1000 kg
27.55
27.54
27.53
27.52
27.51
27.50
32.2
32.0
0
50
100
150
200

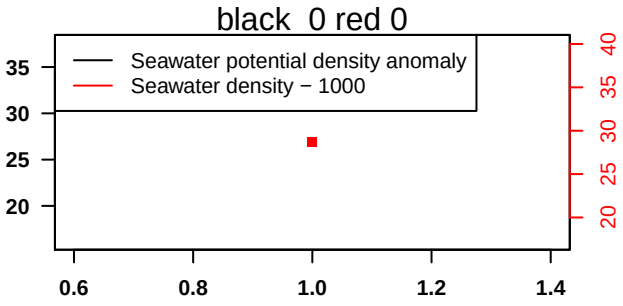

lovbio006b_067_00_06.txt
76
74
72
70
68
0
200
600
1000
CDOM, [CN] / Points @ x s

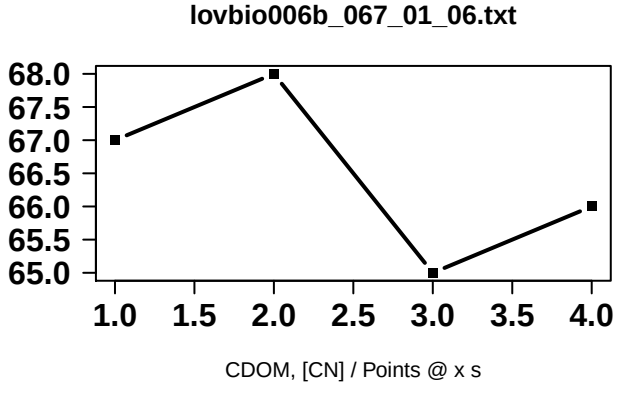

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

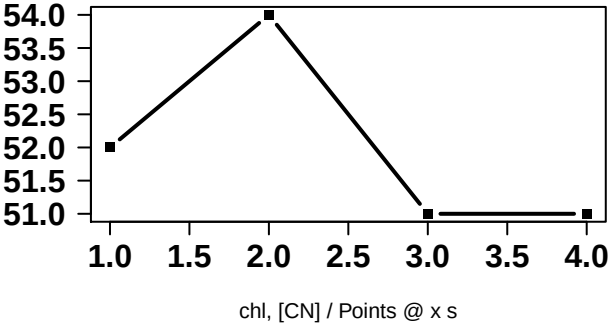

nb days: 8.3 freq: 9.9 min
220
200
180
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

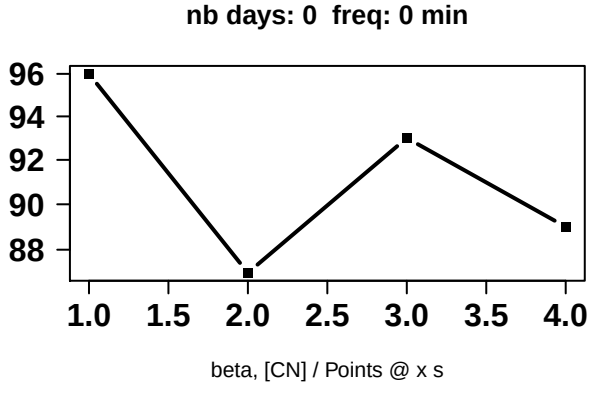

nb days: 8.3 freq: 59.4 min
0.55
0.50
0.45
0.40
0.35
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

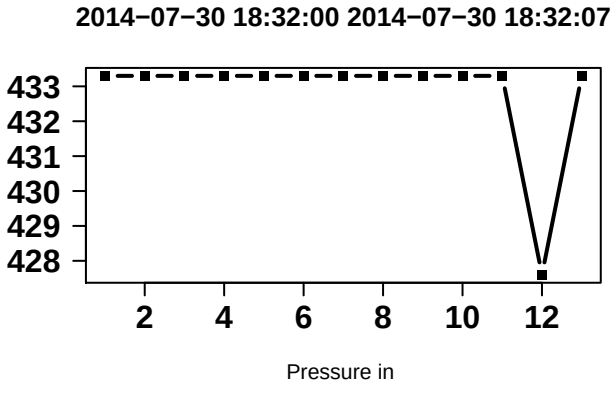

2014−07−30 13:06:27 2014−07−30 13:06:34
550
500
450
400
350
300
250
1
2
3
4
5
6
7
Pressure in

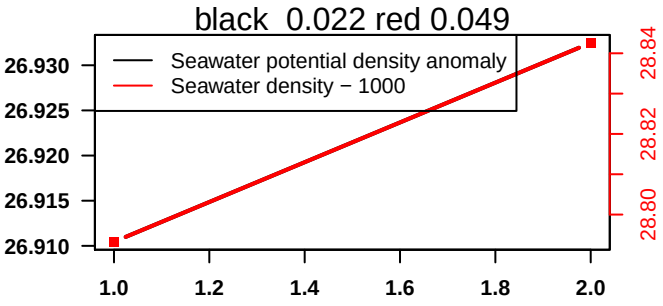

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

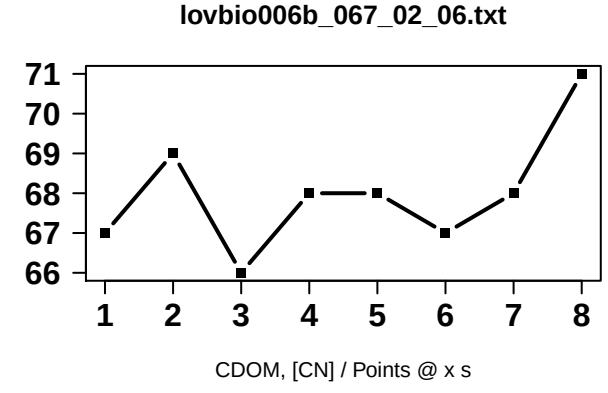

lovbio006b_067_01_06.txt
68.0
67.5
67.0
66.5
66.0
65.5
65.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

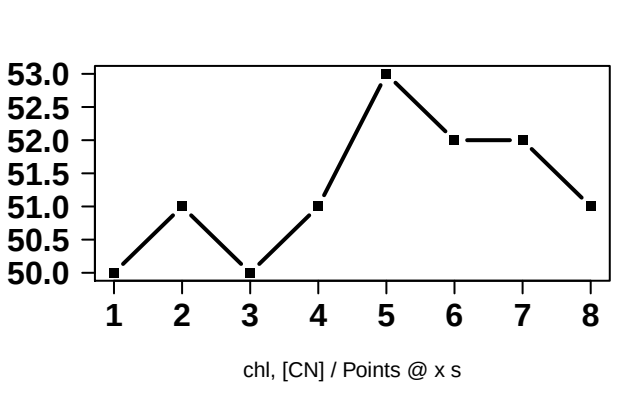

54.0
53.5
53.0
52.5
52.0
51.5
51.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

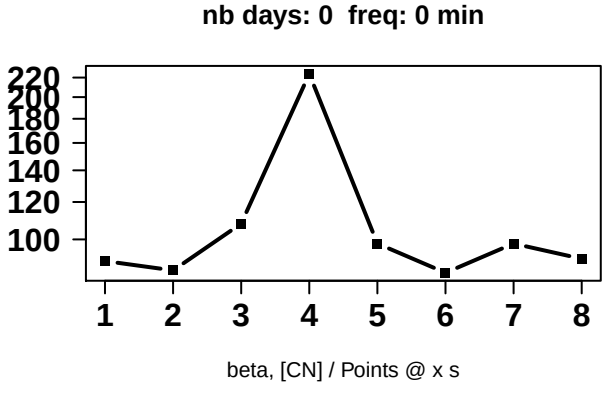

nb days: 0 freq: 0 min
96
94
92
90
88
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

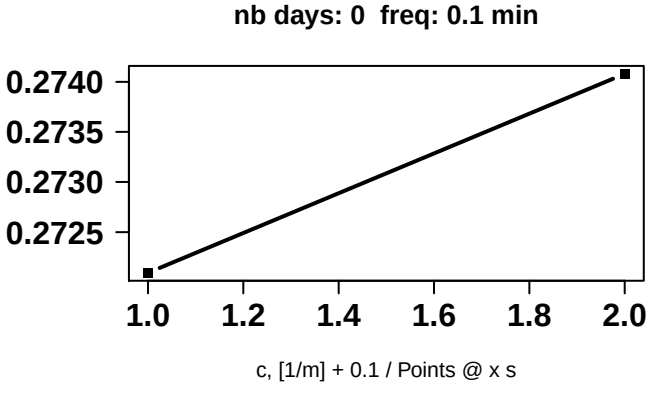

2014−07−30 18:32:00 2014−07−30 18:32:07
433
432
431
430
429
428
2
4
6
8
10
12
Pressure in

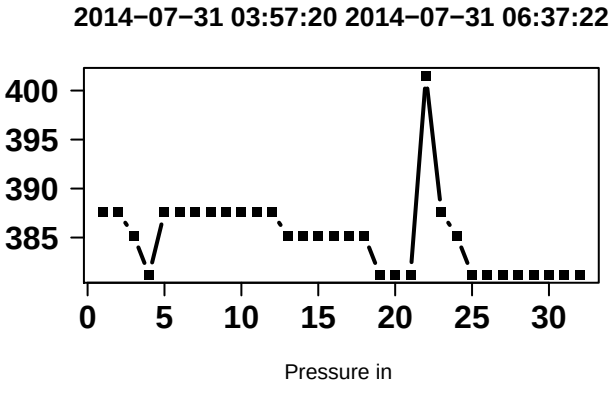

black 0.022 red 0.049
Seawater potential density anomaly
Seawater density − 1000
26.930
26.925
26.920
26.915
26.910
28.84
28.82
28.80
1.0
1.2
1.4
1.6
1.8
2.0

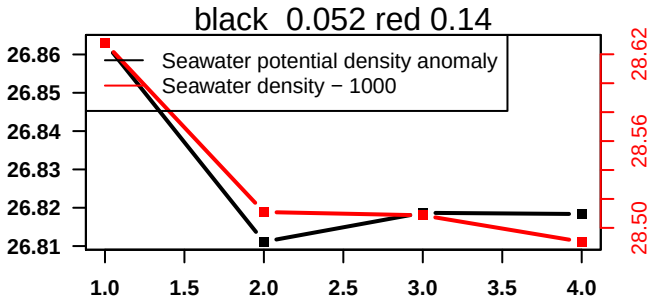

lovbio006b_067_02_06.txt
71
70
69
68
67
66
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

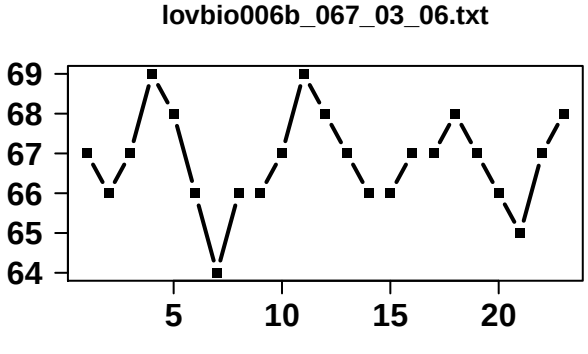

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

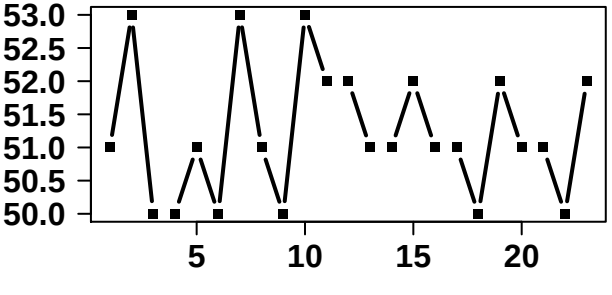

nb days: 0 freq: 0 min
220
200
180
160
140
120
100
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

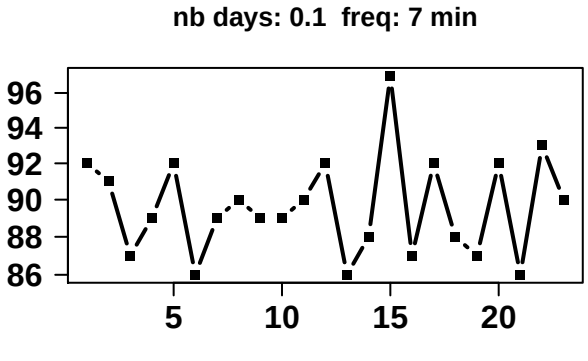

nb days: 0 freq: 0.1 min
0.2740
0.2735
0.2730
0.2725
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

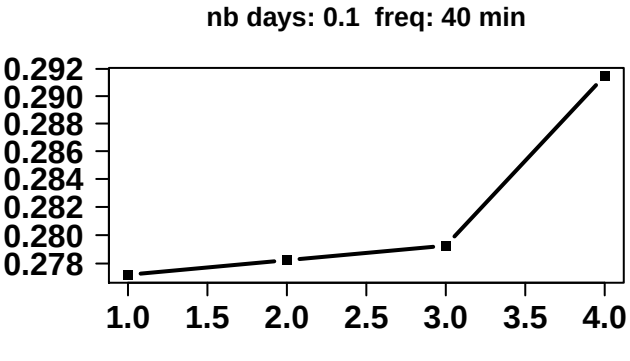

2014−07−31 03:57:20 2014−07−31 06:37:22
400
395
390
385
0
5
10
15
20
25
30
Pressure in

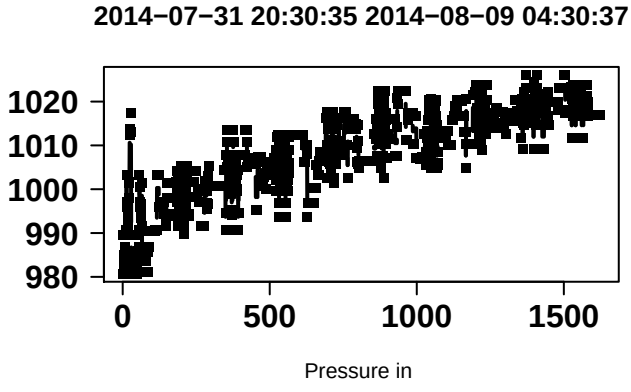

black 0.052 red 0.14
Seawater potential density anomaly
Seawater density − 1000
26.86
26.85
26.84
26.83
26.82
26.81
28.62
28.56
28.50
1.0
1.5
2.0
2.5
3.0
3.5
4.0

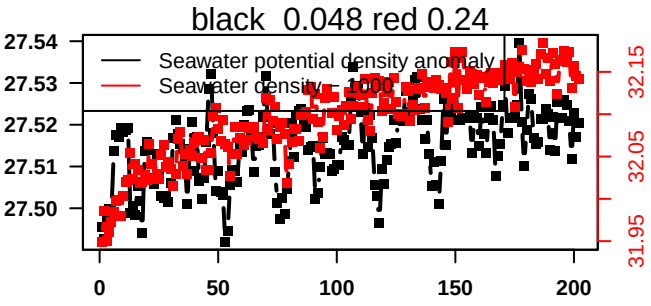

lovbio006b_067_03_06.txt
69
68
67
66
65
64
5
10
15
20
CDOM, [CN] / Points @ x s

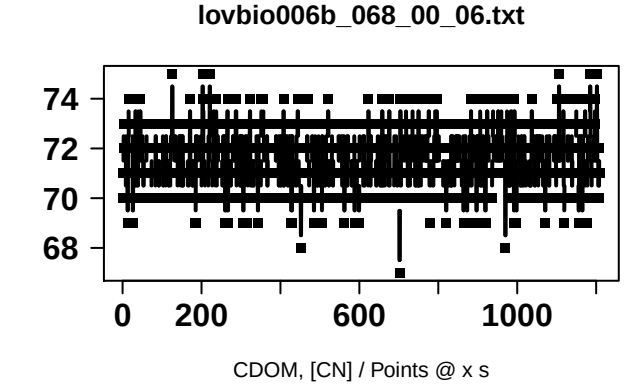

53.0
52.5
52.0
51.5
51.0
50.5
50.0
5
10
15
20
chl, [CN] / Points @ x s

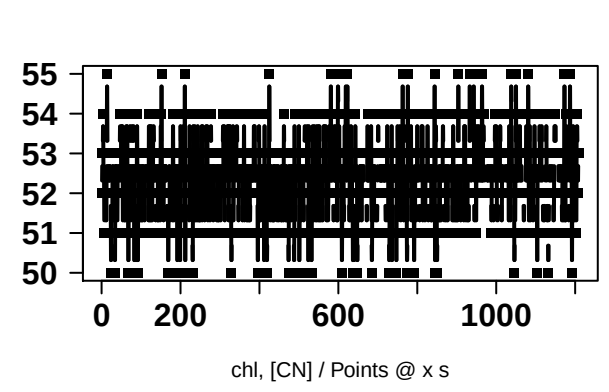

nb days: 0.1 freq: 7 min
96
94
92
90
88
86
5
10
15
20
beta, [CN] / Points @ x s

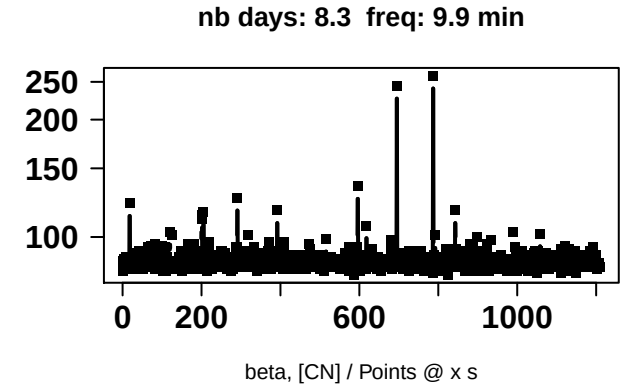

nb days: 0.1 freq: 40 min
0.292
0.290
0.288
0.286
0.284
0.282
0.280
0.278
1.0
1.5
2.0
2.5
3.0
3.5
4.0
c, [1/m] + 0.1 / Points @ x s

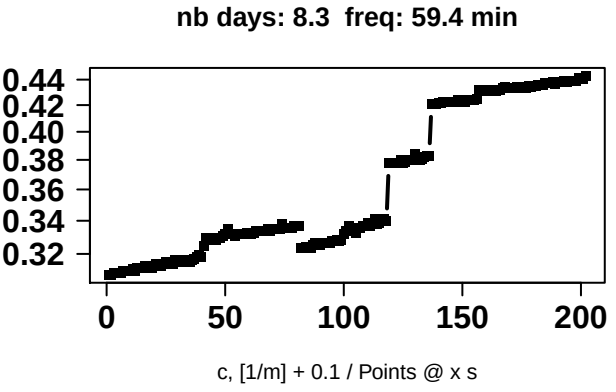

2014−07−31 20:30:35 2014−08−09 04:30:37
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

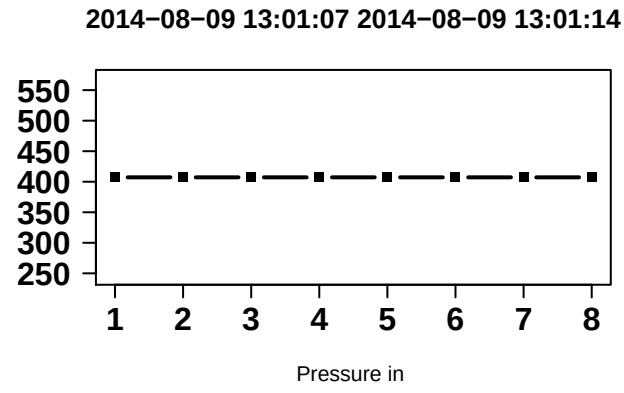

black 0.048 red 0.24
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.15
32.05
31.95
0
50
100
150
200

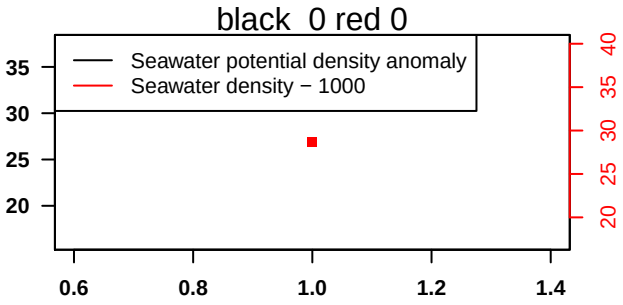

lovbio006b_068_00_06.txt
74
72
70
68
0
200
600
1000
CDOM, [CN] / Points @ x s

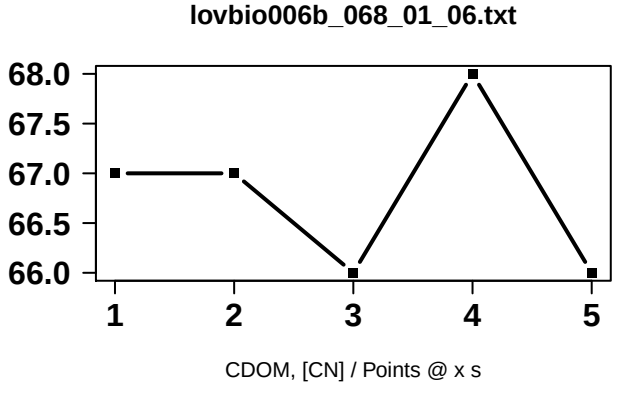

55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

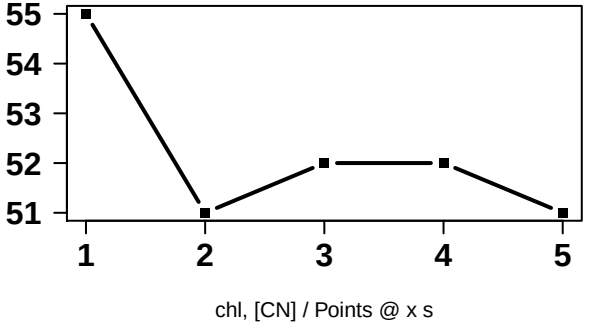

nb days: 8.3 freq: 9.9 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

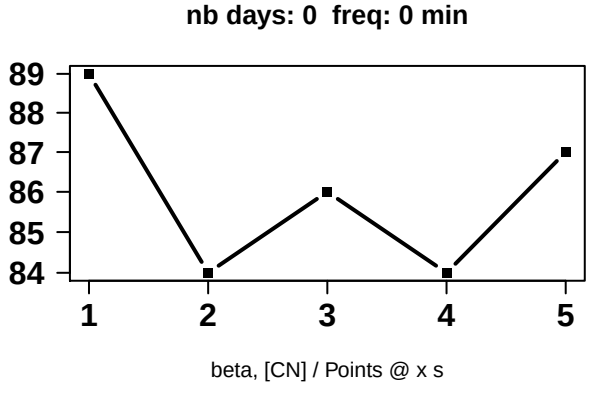

nb days: 8.3 freq: 59.4 min
0.44
0.42
0.40
0.38
0.36
0.34
0.32
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

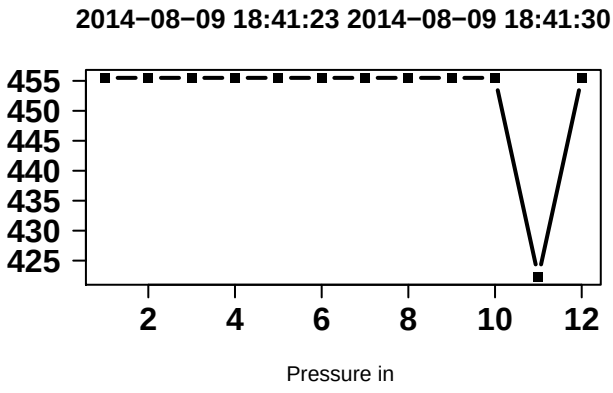

2014−08−09 13:01:07 2014−08−09 13:01:14
550
500
450
400
350
300
250
1
2
3
4
5
6
7
8
Pressure in

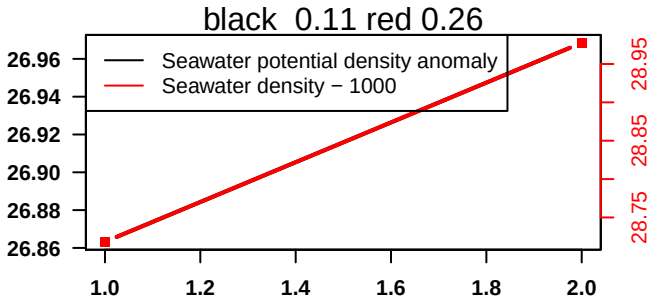

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

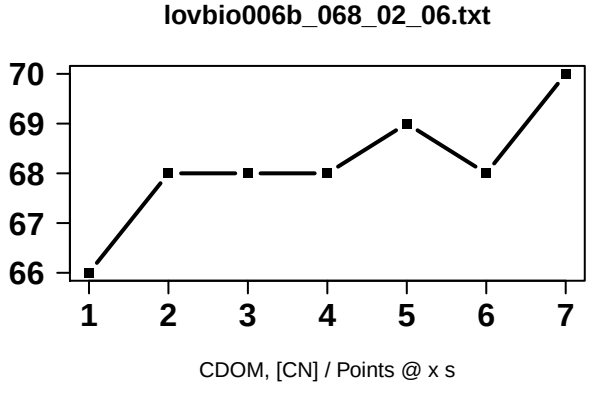

lovbio006b_068_01_06.txt
68.0
67.5
67.0
66.5
66.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

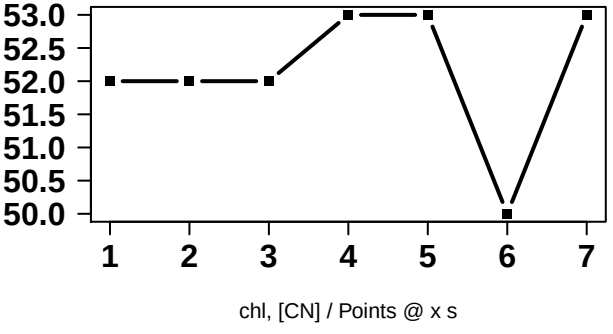

55
54
53
52
51
1
2
3
4
5
chl, [CN] / Points @ x s

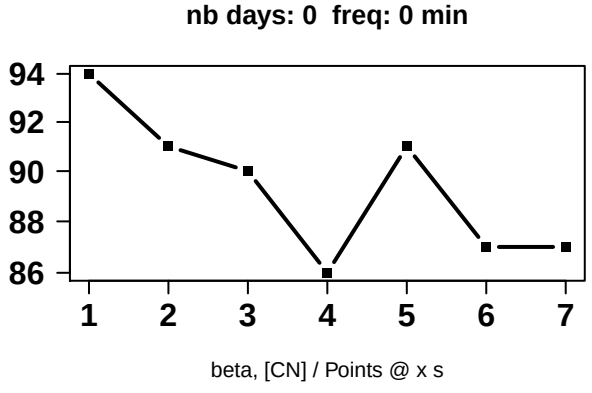

nb days: 0 freq: 0 min
89
88
87
86
85
84
1
2
3
4
5
beta, [CN] / Points @ x s

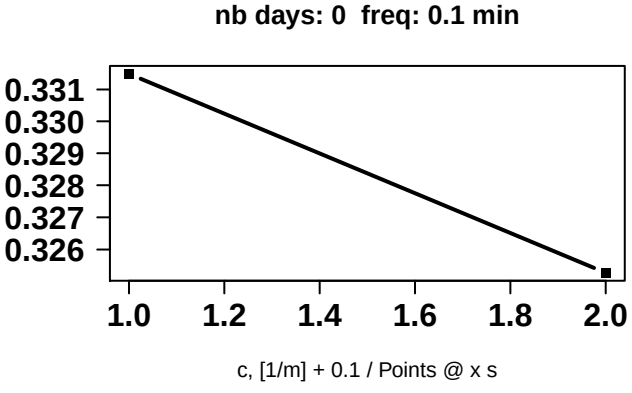

2014−08−09 18:41:23 2014−08−09 18:41:30
455
450
445
440
435
430
425
2
4
6
8
10
12
Pressure in

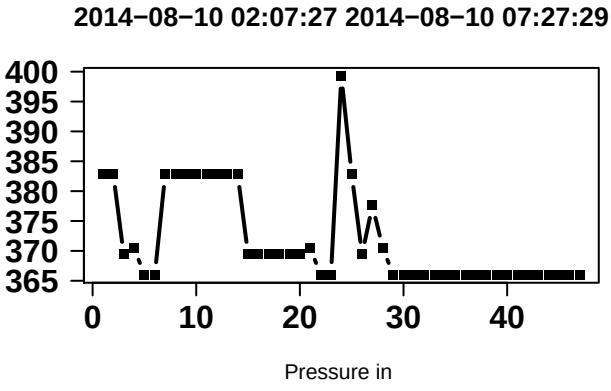

black 0.11 red 0.26
Seawater potential density anomaly
Seawater density − 1000
26.96
26.94
26.92
26.90
26.88
26.86
28.95
28.85
28.75
1.0
1.2
1.4
1.6
1.8
2.0

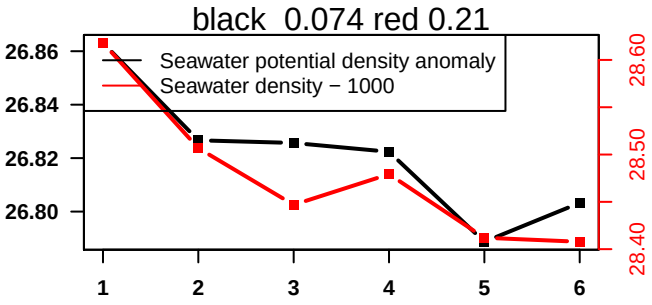

lovbio006b_068_02_06.txt
70
69
68
67
66
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

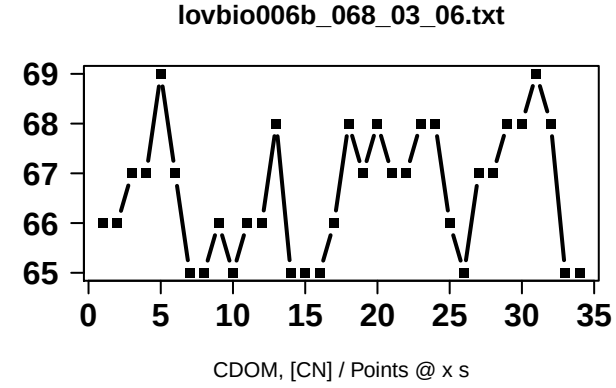

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

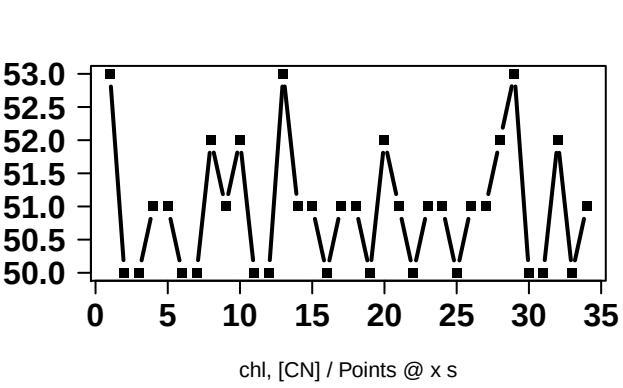

nb days: 0 freq: 0 min
94
92
90
88
86
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

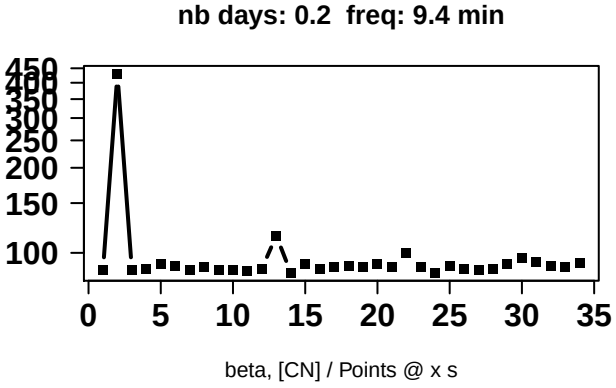

nb days: 0 freq: 0.1 min
0.331
0.330
0.329
0.328
0.327
0.326
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

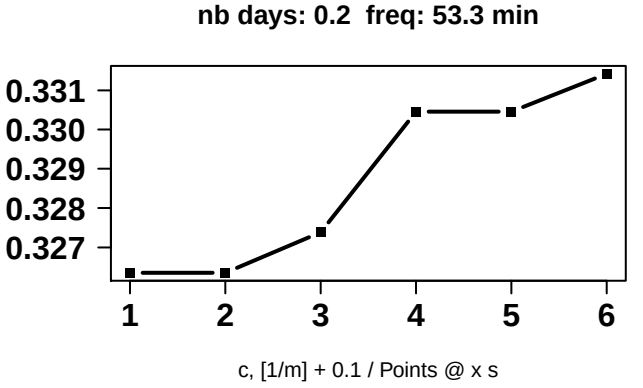

2014−08−10 02:07:27 2014−08−10 07:27:29
400
395
390
385
380
375
370
365
0
10
20
30
40
Pressure in

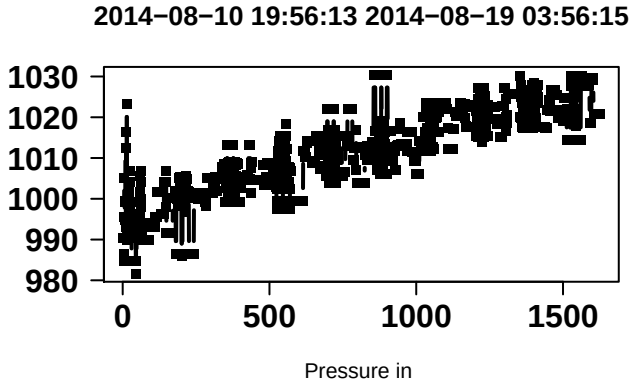

black 0.074 red 0.21
Seawater potential density anomaly
Seawater density − 1000
26.86
26.84
26.82
26.80
28.60
28.50
28.40
1
2
3
4
5
6

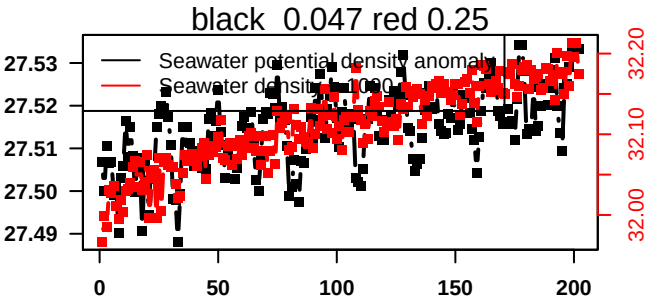

lovbio006b_068_03_06.txt
69
68
67
66
65
0
5
10
15
20
25
30
35
CDOM, [CN] / Points @ x s

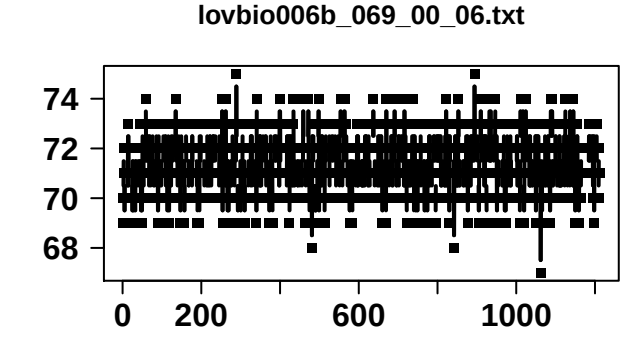

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
5
10
15
20
25
30
35
chl, [CN] / Points @ x s

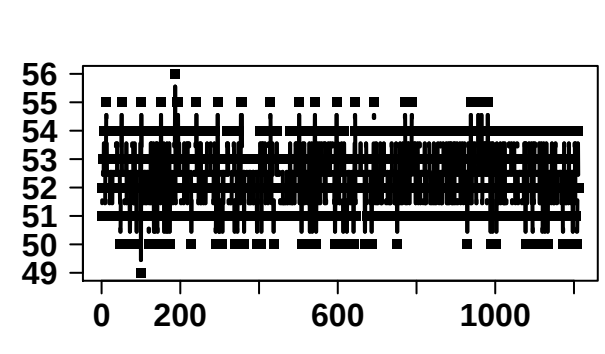

nb days: 0.2 freq: 9.4 min
450
400
350
300
250
200
150
100
0
5
10
15
20
25
30
35
beta, [CN] / Points @ x s

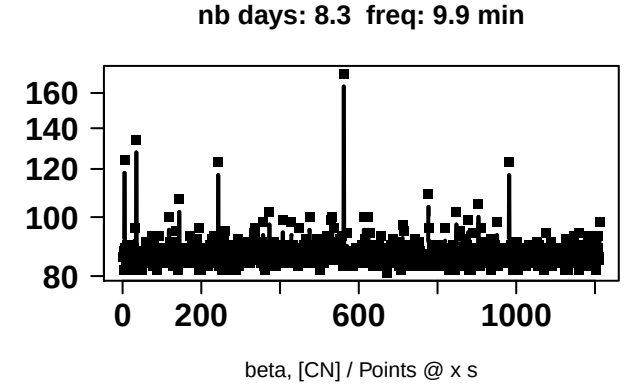

nb days: 0.2 freq: 53.3 min
0.331
0.330
0.329
0.328
0.327
1
2
3
4
5
6
c, [1/m] + 0.1 / Points @ x s

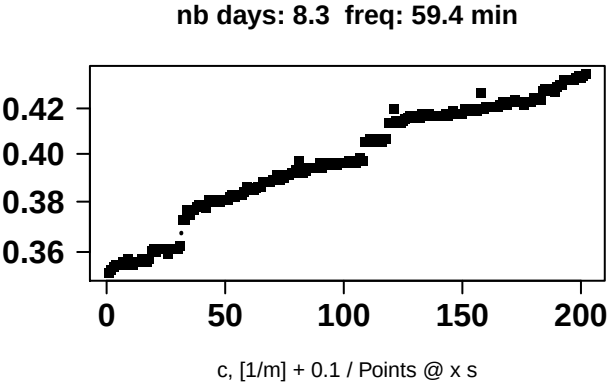

2014−08−10 19:56:13 2014−08−19 03:56:15
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

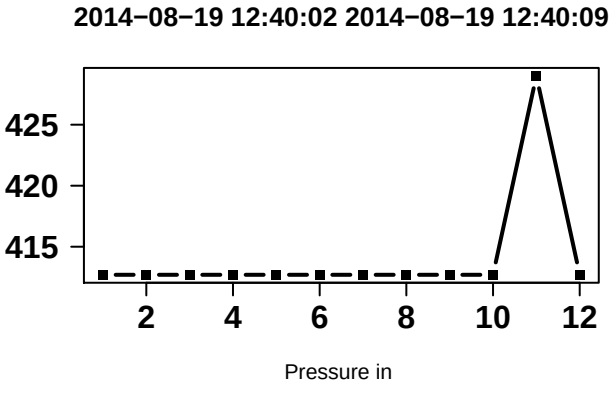

black 0.047 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
32.20
32.10
32.00
0
50
100
150
200

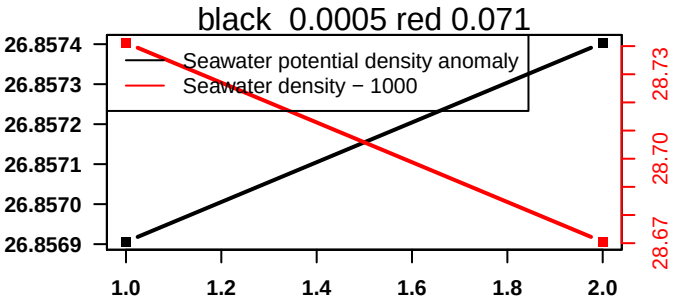

lovbio006b_069_00_06.txt
74
72
70
68
0
200
600
1000
CDOM, [CN] / Points @ x s

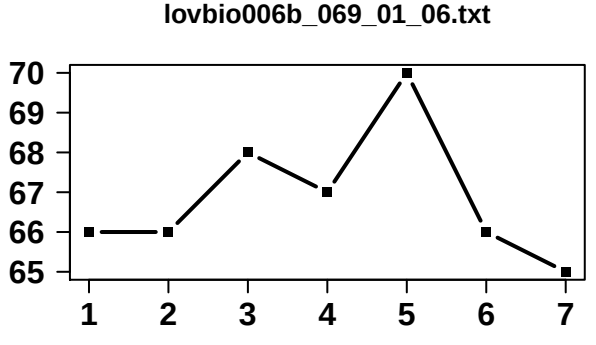

56
55
54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

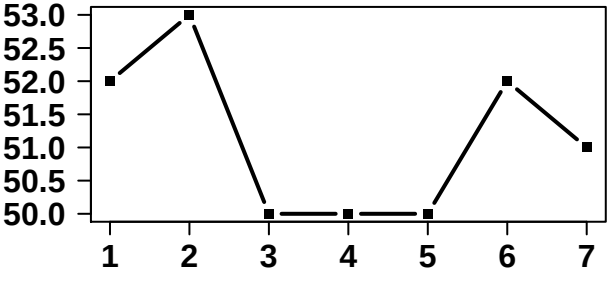

nb days: 8.3 freq: 9.9 min
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

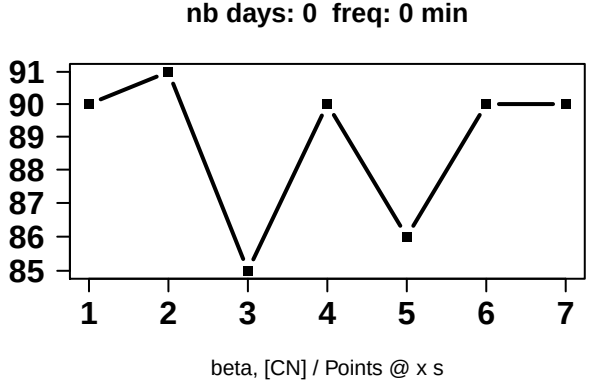

nb days: 8.3 freq: 59.4 min
0.42
0.40
0.38
0.36
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

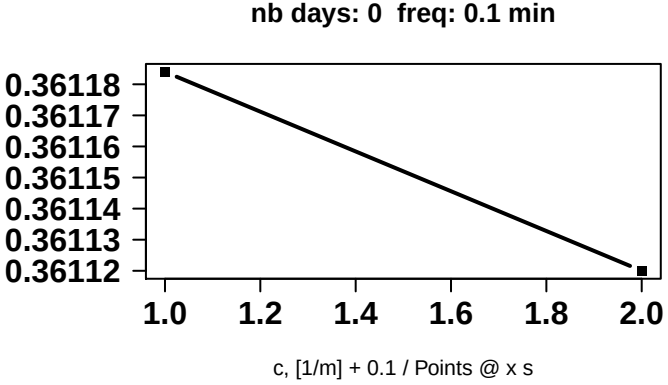

2014−08−19 12:40:02 2014−08−19 12:40:09
425
420
415
2
4
6
8
10
12
Pressure in

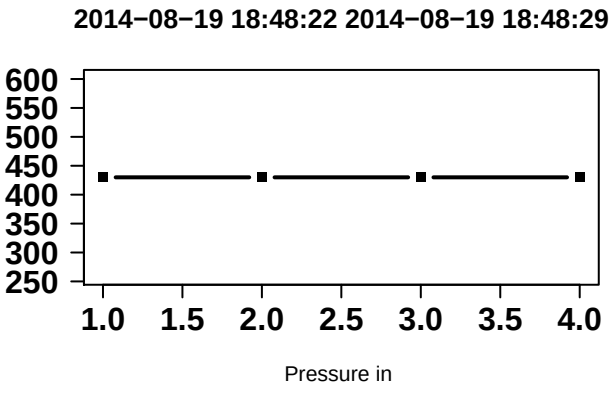

black 0.0005 red 0.071
Seawater potential density anomaly
Seawater density − 1000
26.8574
26.8573
26.8572
26.8571
26.8570
26.8569
28.73
28.70
28.67
1.0
1.2
1.4
1.6
1.8
2.0

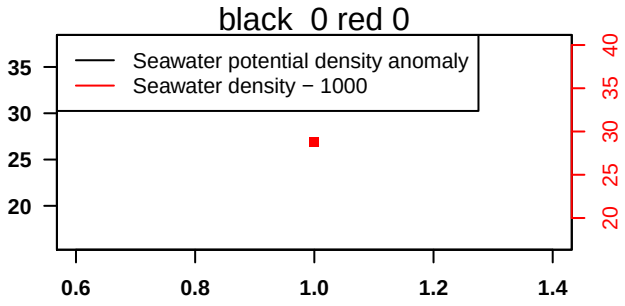

lovbio006b_069_01_06.txt
70
69
68
67
66
65
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

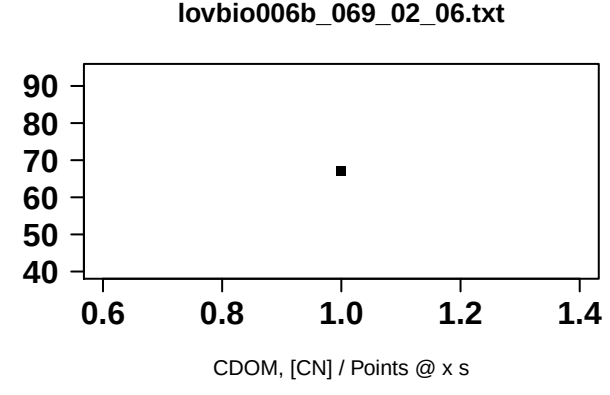

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

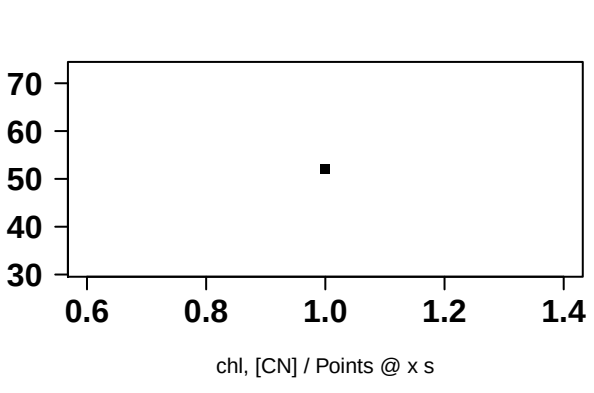

nb days: 0 freq: 0 min
91
90
89
88
87
86
85
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

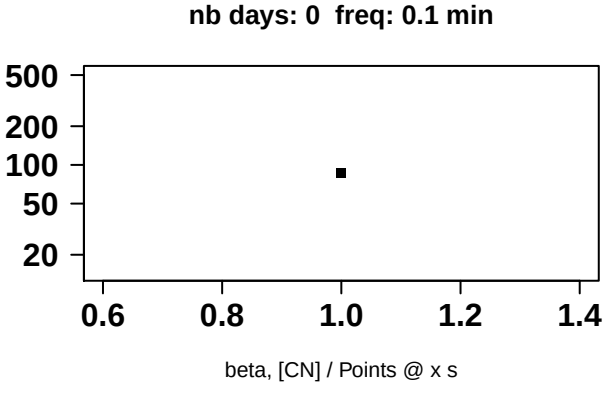

nb days: 0 freq: 0.1 min
0.36118
0.36117
0.36116
0.36115
0.36114
0.36113
0.36112
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

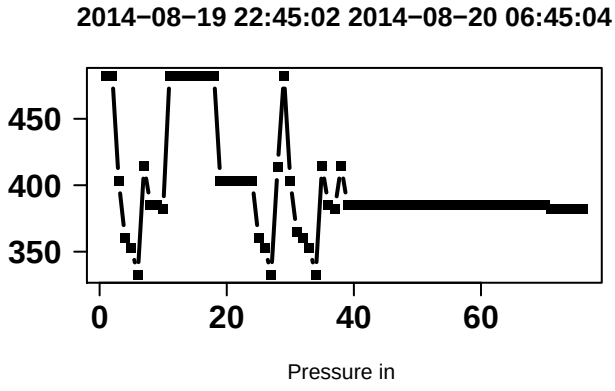

2014−08−19 18:48:22 2014−08−19 18:48:29
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

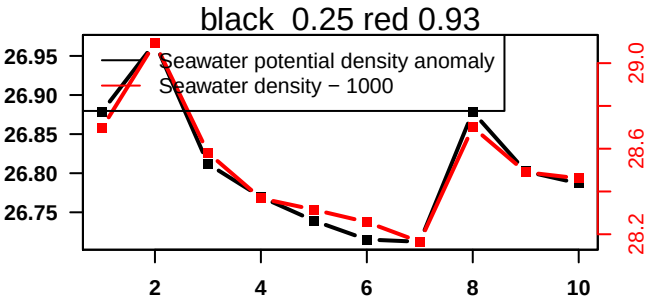

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

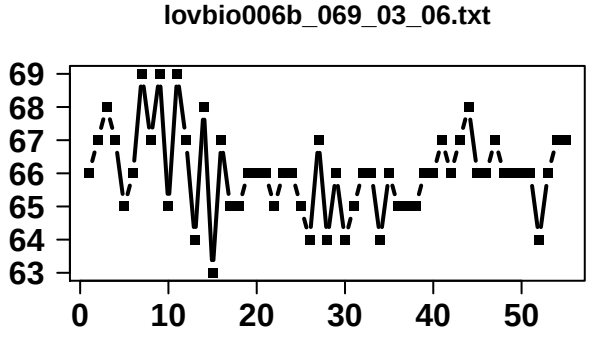

lovbio006b_069_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

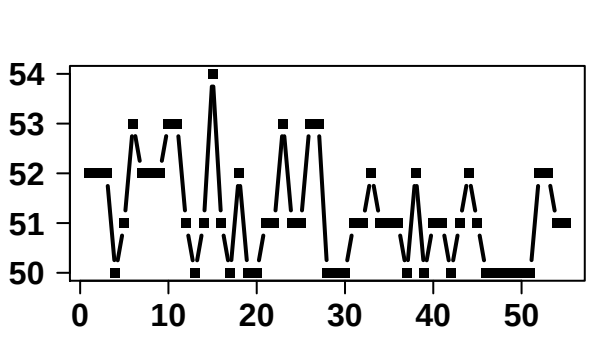

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

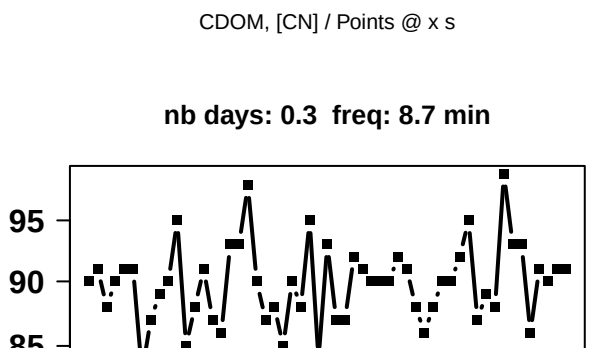

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

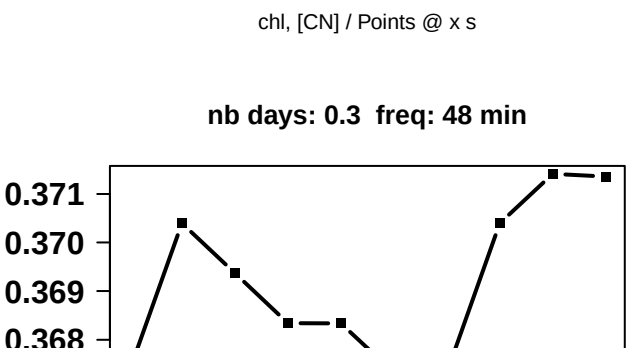

2014−08−19 22:45:02 2014−08−20 06:45:04
450
400
350
0
20
40
60
Pressure in

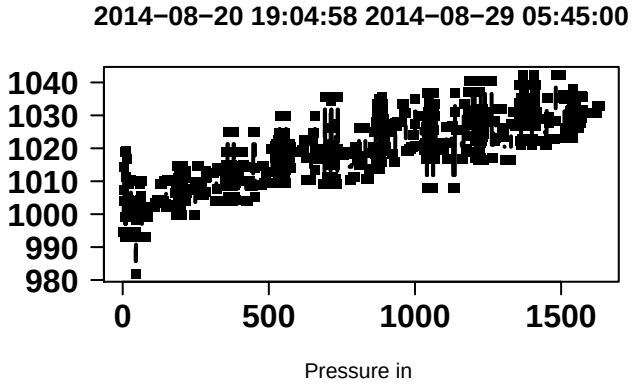

black 0.25 red 0.93
Seawater potential density anomaly
Seawater density − 1000
26.95
26.90
26.85
26.80
26.75
29.0
28.6
28.2
2
4
6
8
10

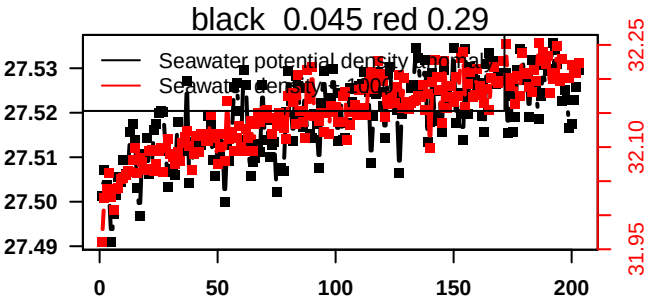

lovbio006b_069_03_06.txt
69
68
67
66
65
64
63
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

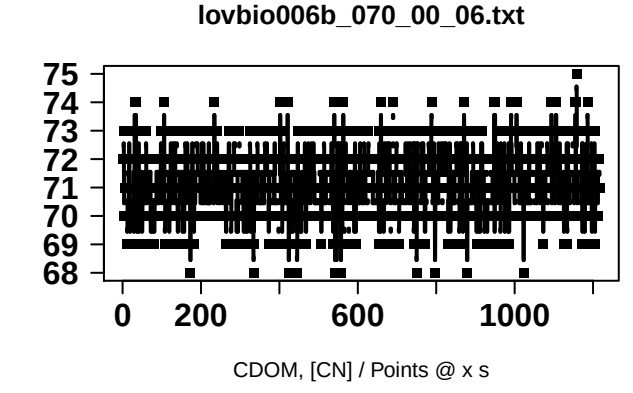

54
53
52
51
50
0
10
20
30
40
50
chl, [CN] / Points @ x s

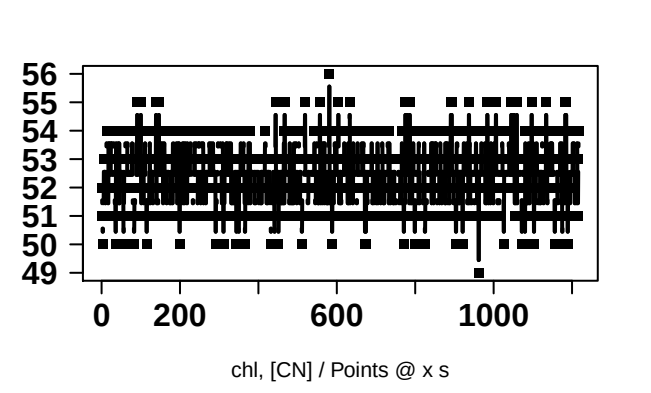

nb days: 0.3 freq: 8.7 min
95
90
85
0
10
20
30
40
50
beta, [CN] / Points @ x s

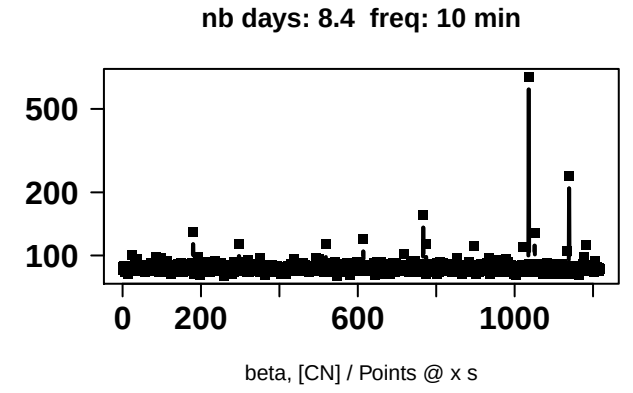

nb days: 0.3 freq: 48 min
0.371
0.370
0.369
0.368
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

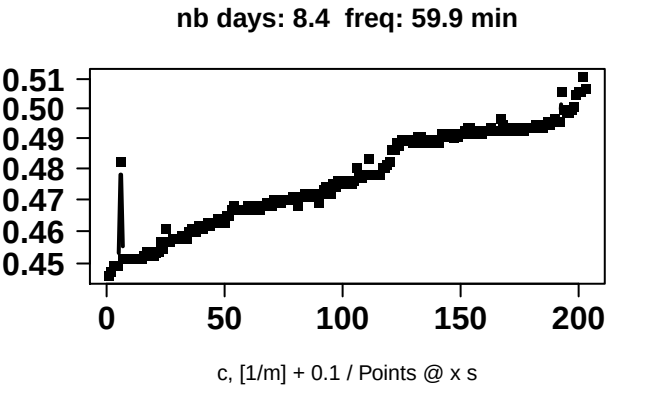

2014−08−20 19:04:58 2014−08−29 05:45:00
1040
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

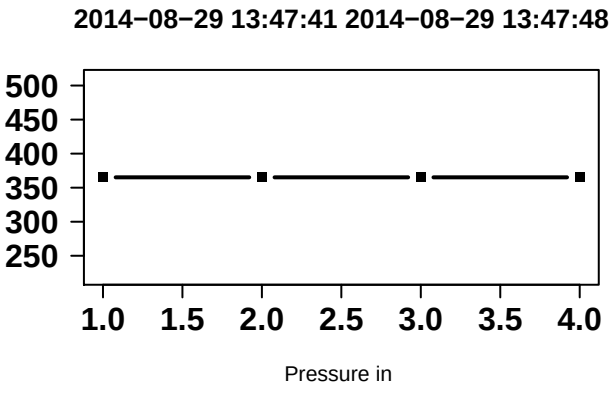

black 0.045 red 0.29
Seawater potential density [kg/m³]
27.53
27.52
27.51
27.50
27.49
32.25
32.10
31.95
0
50
100
150
200

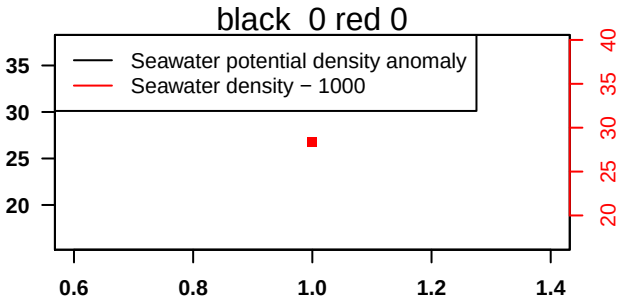

lovbio006b_070_00_06.txt
75
74
73
72
71
70
69
68
0
200
600
1000
CDOM, [CN] / Points @ x s

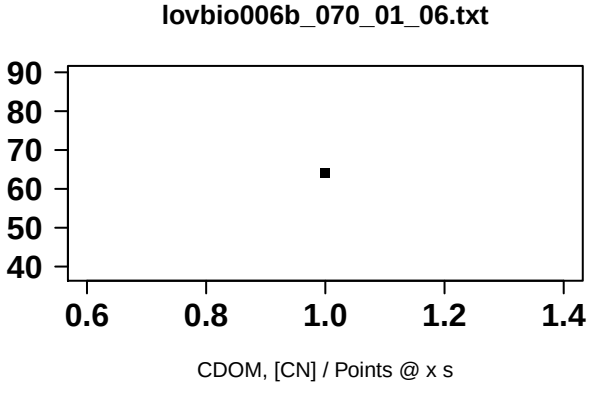

56
55
54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

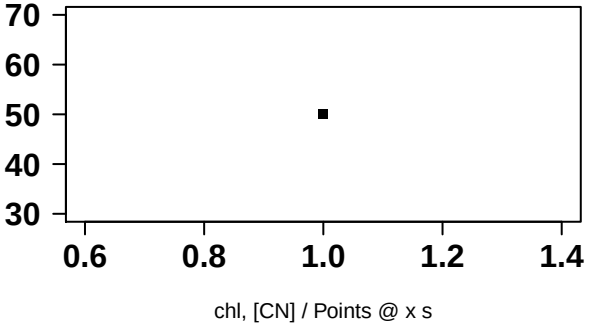

nb days: 8.4 freq: 10 min
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

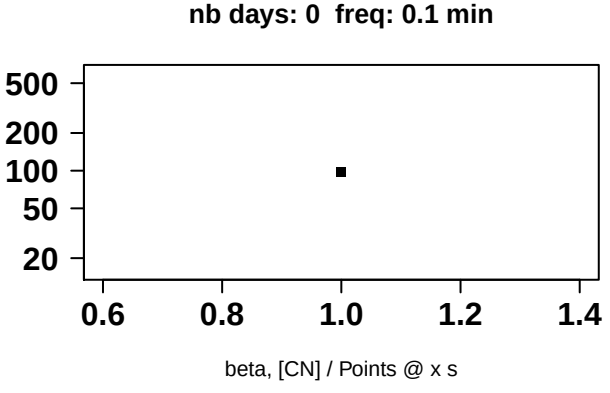

nb days: 8.4 freq: 59.9 min
0.51
0.50
0.49
0.48
0.47
0.46
0.45
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

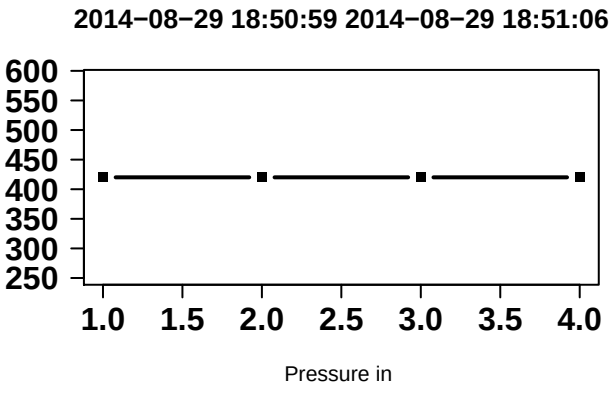

2014−08−29 13:47:41 2014−08−29 13:47:48
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

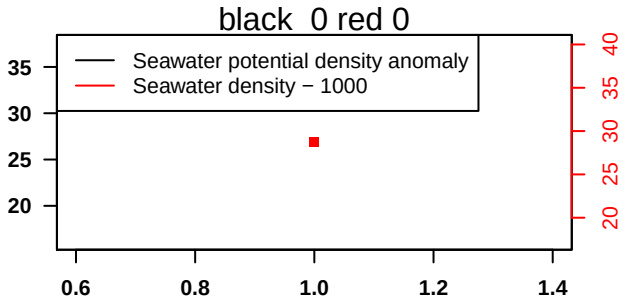

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

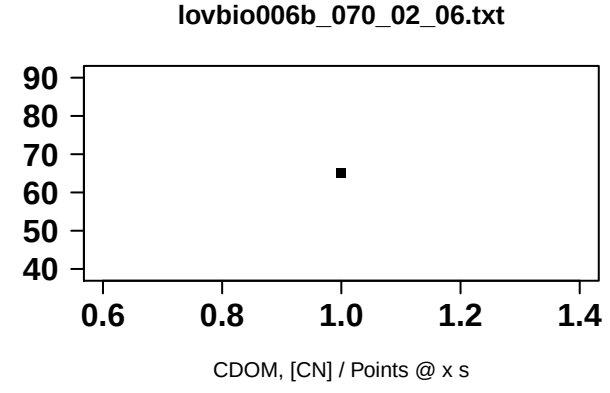

lovbio006b_070_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

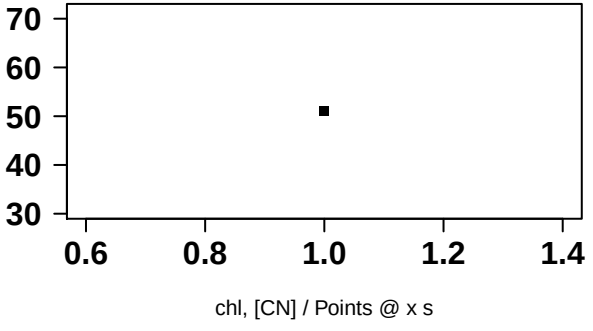

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

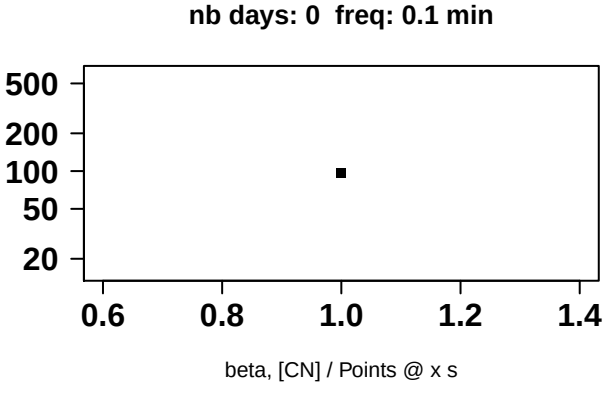

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

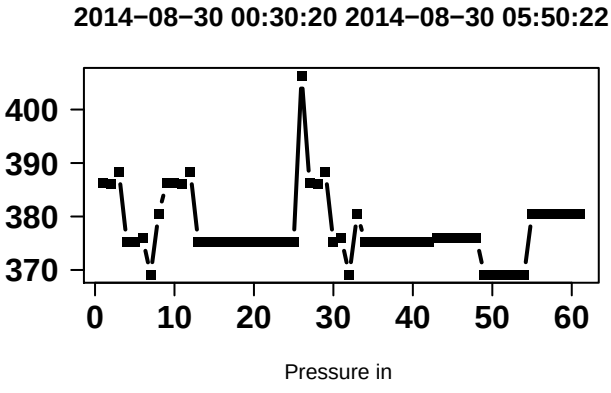

2014−08−29 18:50:59 2014−08−29 18:51:06
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

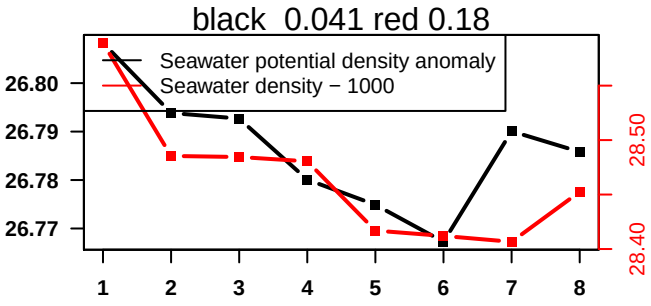

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

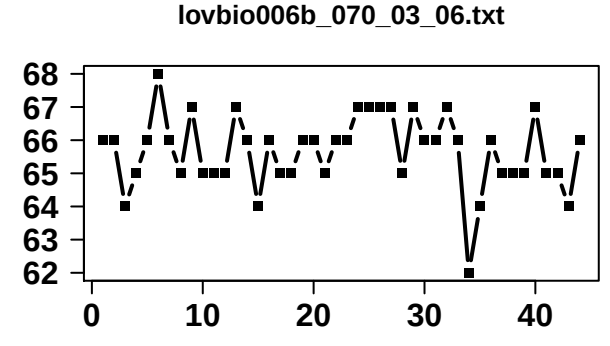

lovbio006b_070_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

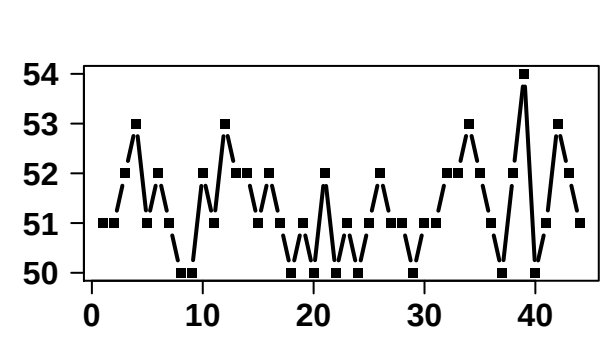

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

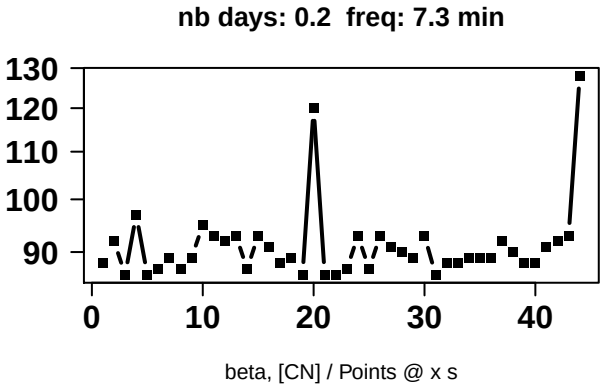

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

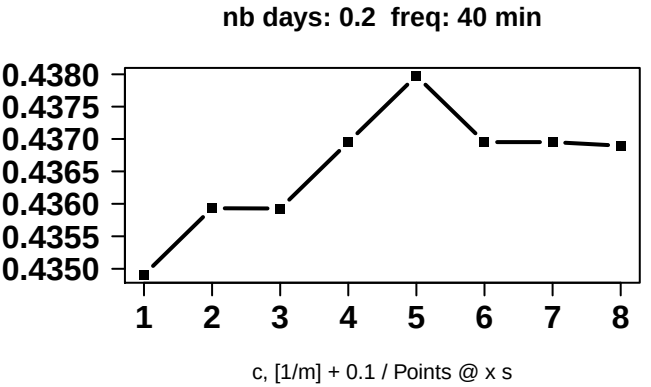

2014−08−30 00:30:20 2014−08−30 05:50:22
400
390
380
370
0
10
20
30
40
50
60
Pressure in

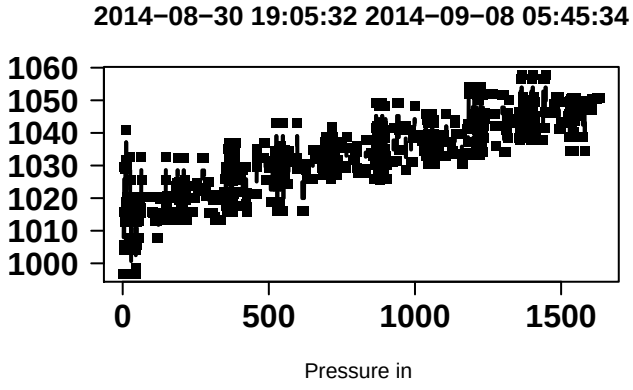

black 0.041 red 0.18
Seawater potential density anomaly
Seawater density − 1000
26.80
26.79
26.78
26.77
28.50
28.40
1
2
3
4
5
6
7
8

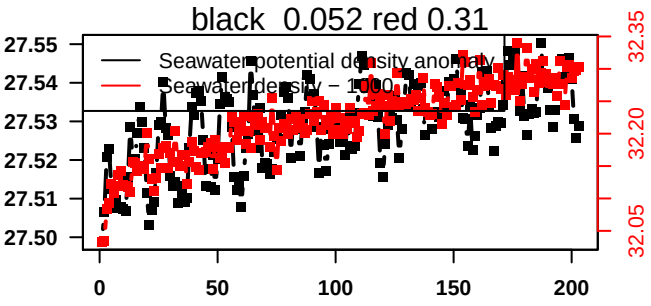

lovbio006b_070_03_06.txt
68
67
66
65
64
63
62
0
10
20
30
40
CDOM, [CN] / Points @ x s

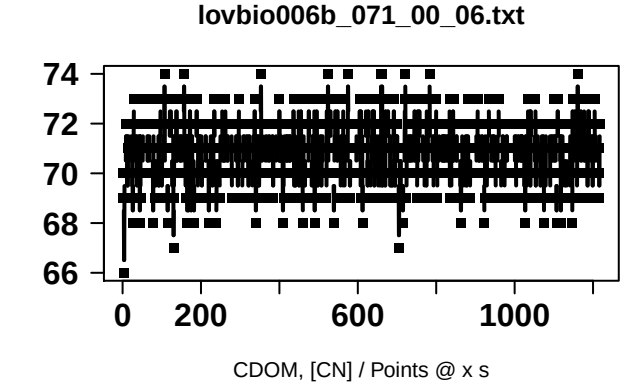

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

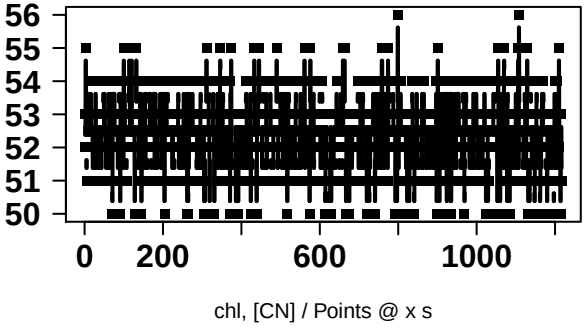

nb days: 0.2 freq: 7.3 min
130
120
110
100
90
0
10
20
30
40
beta, [CN] / Points @ x s

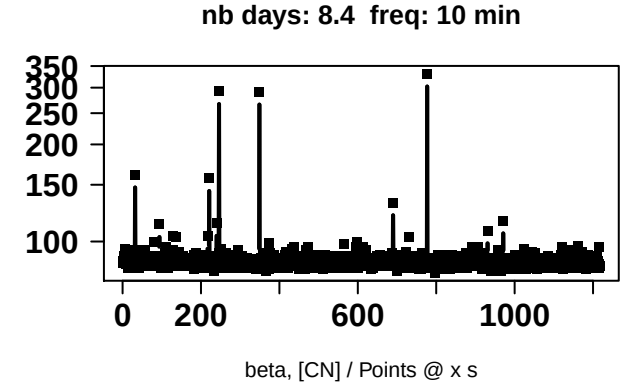

nb days: 0.2 freq: 40 min
0.4380
0.4375
0.4370
0.4365
0.4360
0.4355
0.4350
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

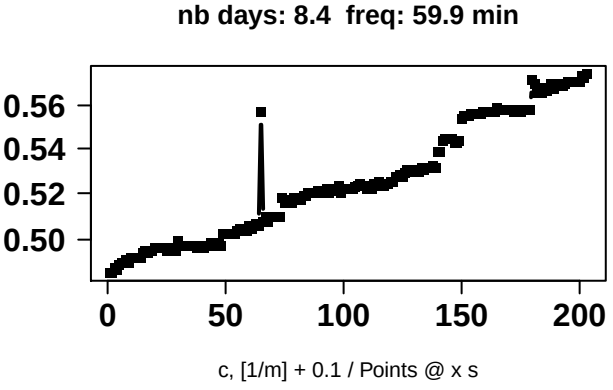

2014−08−30 19:05:32 2014−09−08 05:45:34
1060
1050
1040
1030
1020
1010
1000
0
500
1000
1500
Pressure in

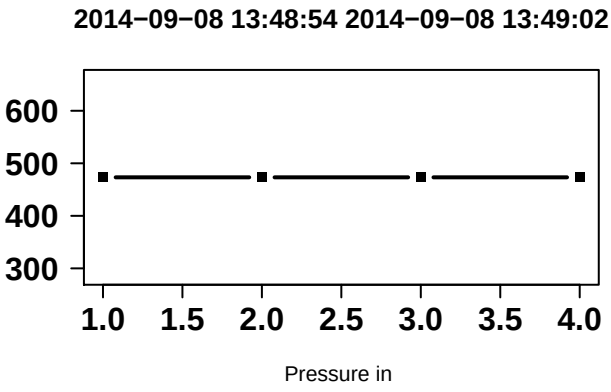

black 0.052 red 0.31
Seawater potential density anomaly
Seawater density − 1000 / kg
27.55
27.54
27.53
27.52
27.51
27.50
32.35
32.20
32.05
0
50
100
150
200

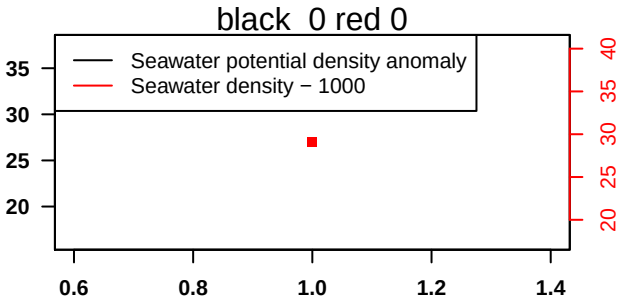

lovbio006b_071_00_06.txt
74
72
70
68
66
0
200
600
1000
CDOM, [CN] / Points @ x s

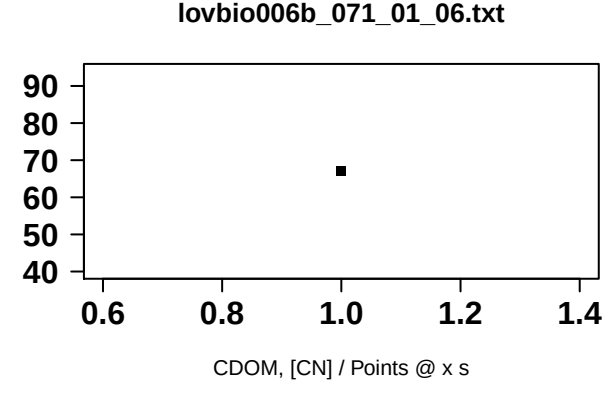

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

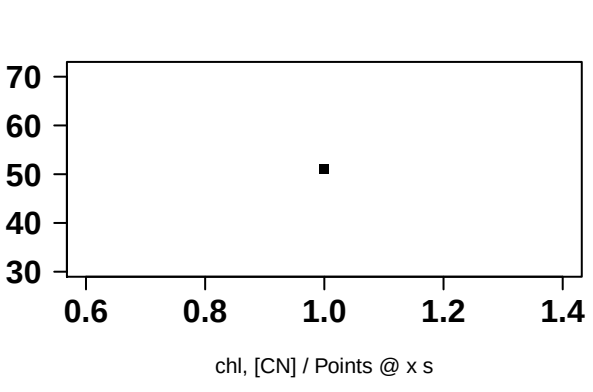

nb days: 8.4 freq: 10 min
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

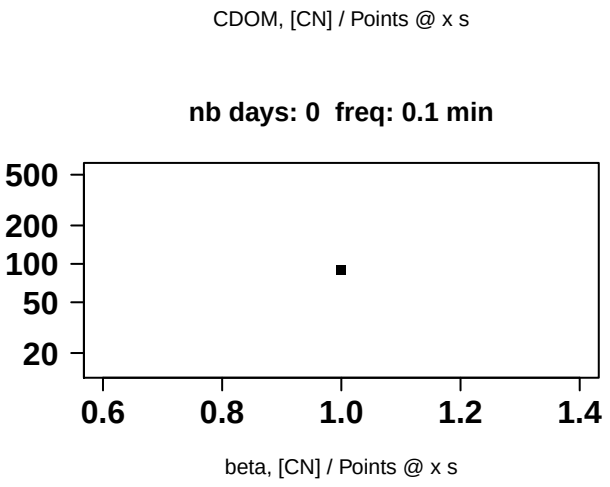

nb days: 8.4 freq: 59.9 min
0.56
0.54
0.52
0.50
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

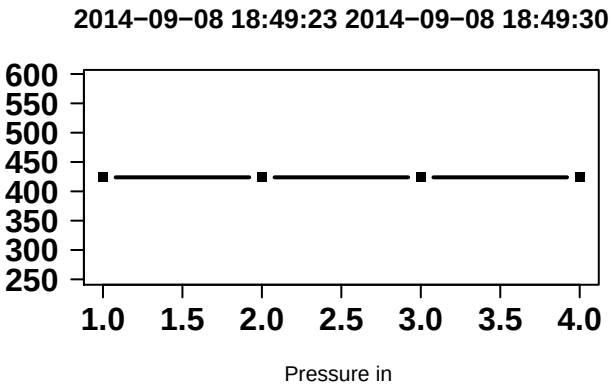

2014−09−08 13:48:54 2014−09−08 13:49:02
600
500
400
300
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

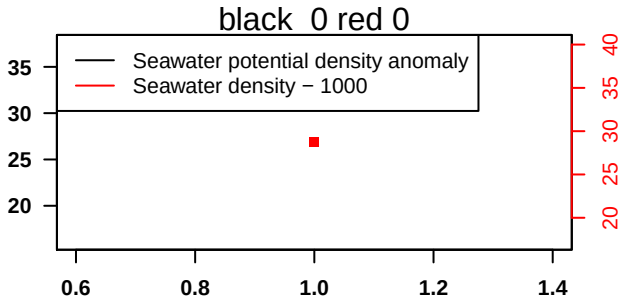

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

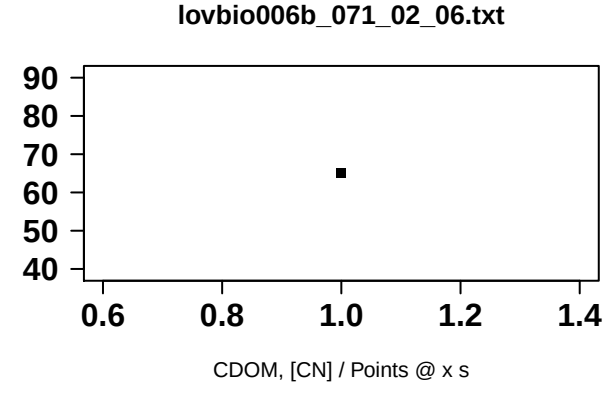

lovbio006b_071_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

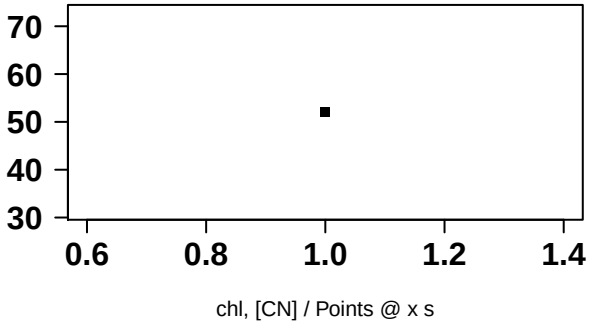

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

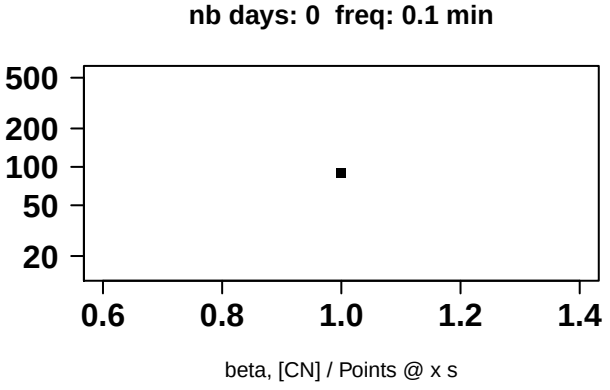

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

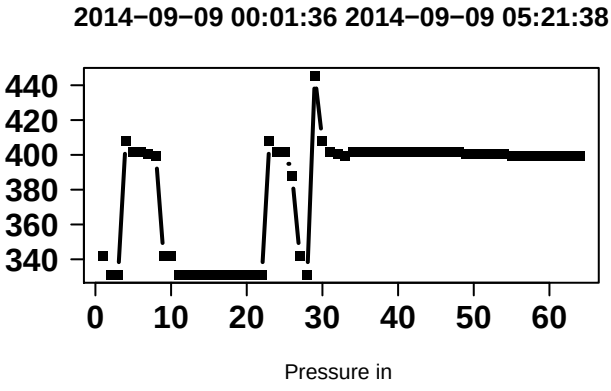

2014−09−08 18:49:23 2014−09−08 18:49:30
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

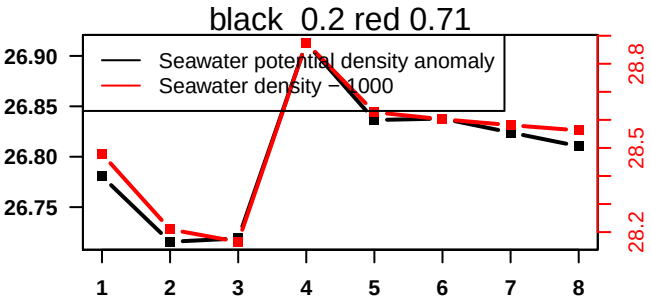

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

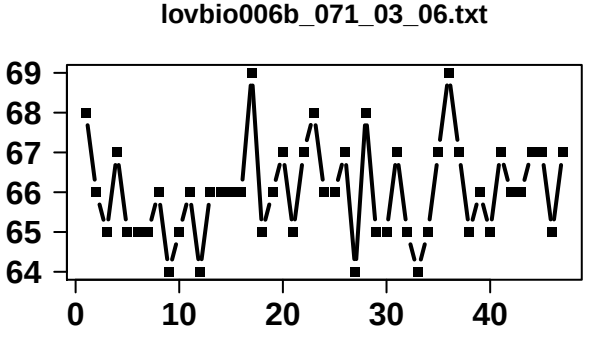

lovbio006b_071_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

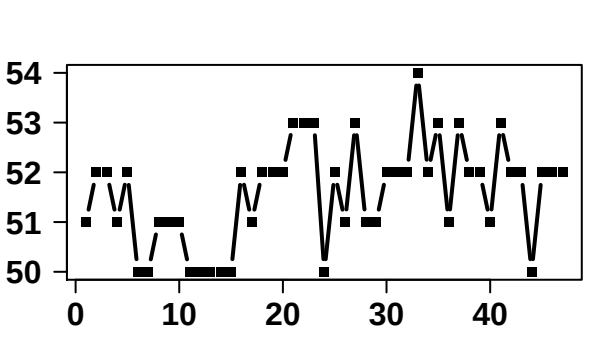

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

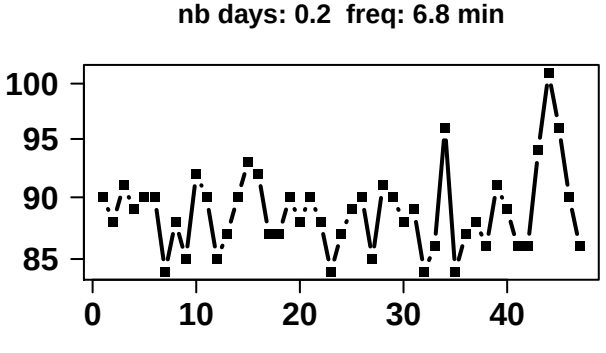

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

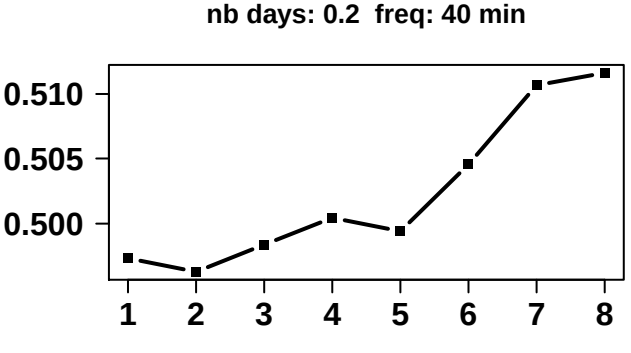

2014−09−09 00:01:36 2014−09−09 05:21:38
440
420
400
380
360
340
0
10
20
30
40
50
60
Pressure in

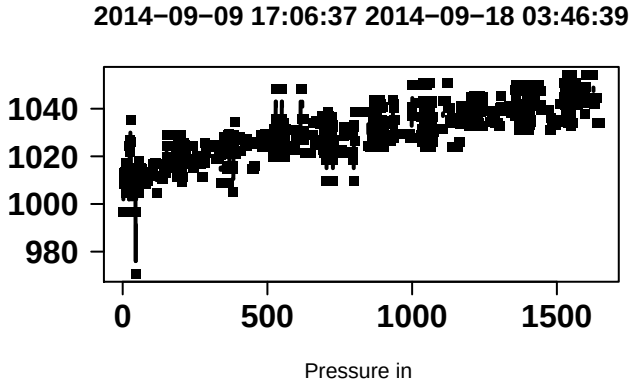

black 0.2 red 0.71
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
26.75
28.8
28.5
28.2
1
2
3
4
5
6
7
8

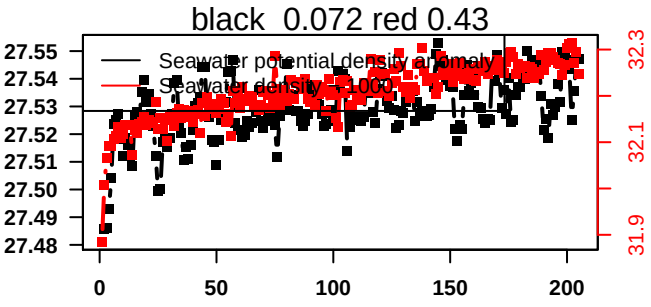

lovbio006b_071_03_06.txt
69
68
67
66
65
64
0
10
20
30
40
CDOM, [CN] / Points @ x s

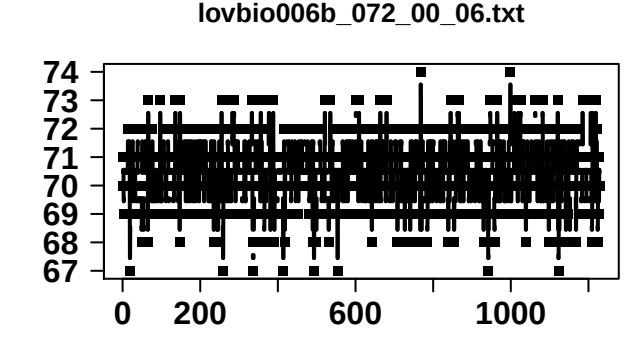

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

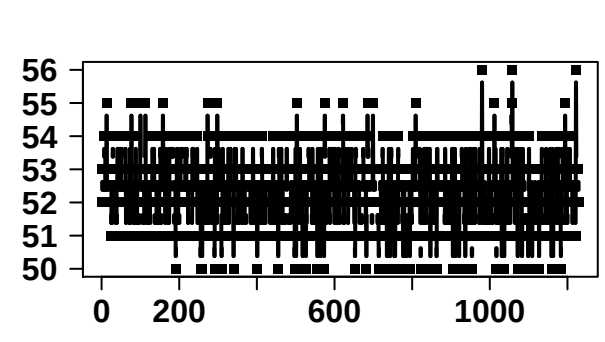

nb days: 0.2 freq: 6.8 min
100
95
90
85
0
10
20
30
40
beta, [CN] / Points @ x s

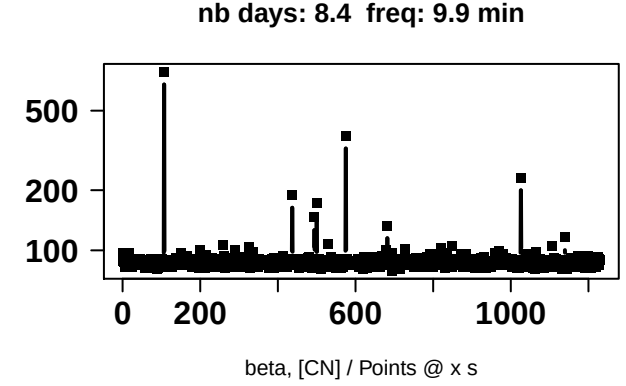

nb days: 0.2 freq: 40 min
0.510
0.505
0.500
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

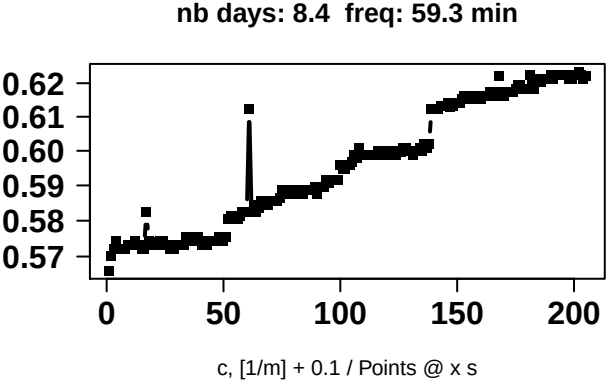

2014−09−09 17:06:37 2014−09−18 03:46:39
1040
1020
1000
980
0
500
1000
1500
Pressure in

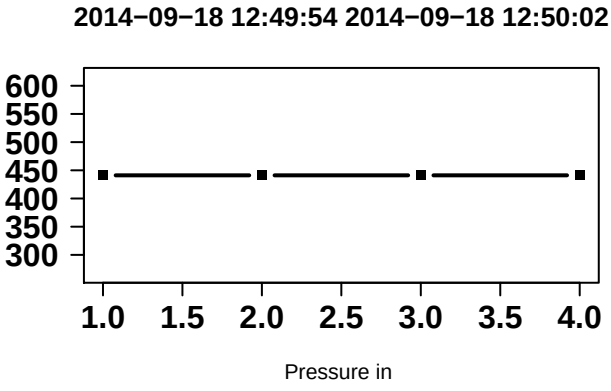

black 0.072 red 0.43
Seawater potential density anomaly
Seawater density + 1000
27.55
27.54
27.53
27.52
27.51
27.50
27.49
27.48
32.3
32.1
31.9
0
50
100
150
200

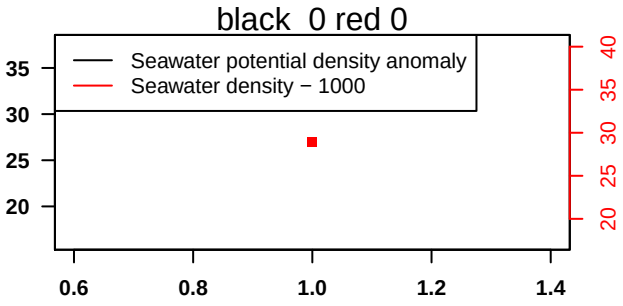

lovbio006b_072_00_06.txt
74
73
72
71
70
69
68
67
0
200
600
1000
CDOM, [CN] / Points @ x s

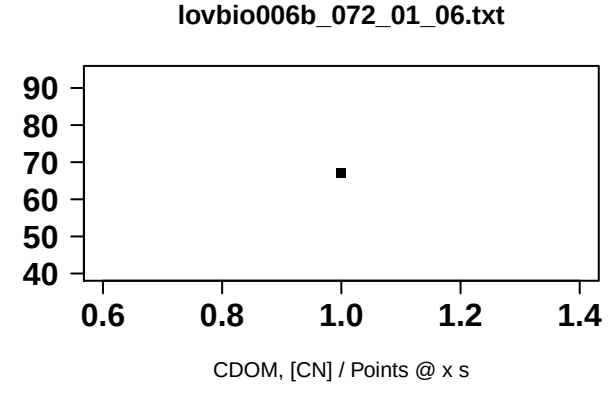

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

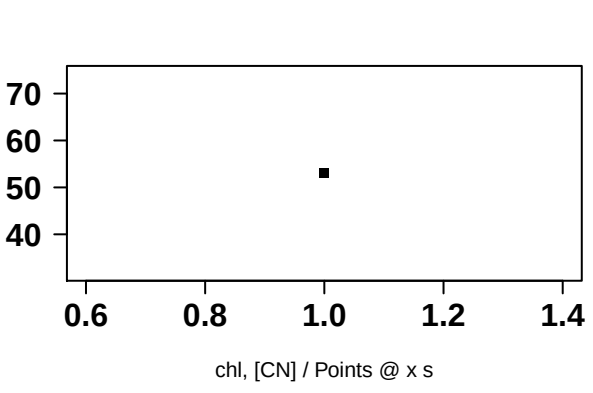

nb days: 8.4 freq: 9.9 min
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

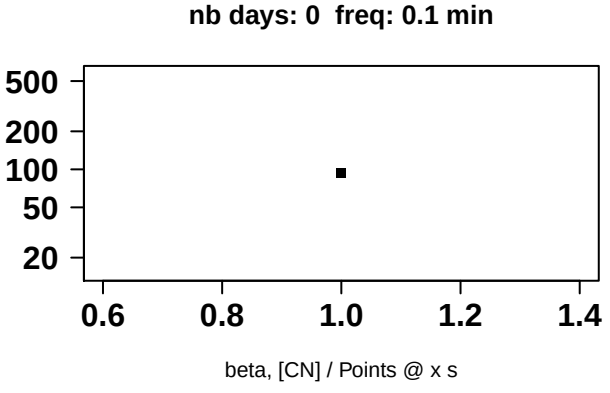

nb days: 8.4 freq: 59.3 min
0.62
0.61
0.60
0.59
0.58
0.57
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

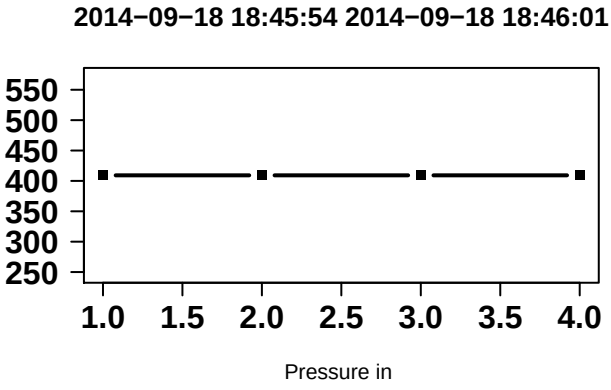

2014−09−18 12:49:54 2014−09−18 12:50:02
600
550
500
450
400
350
300
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

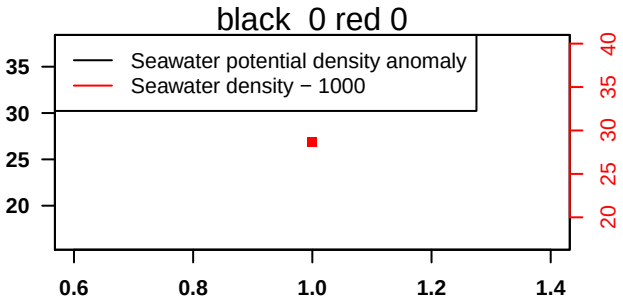

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

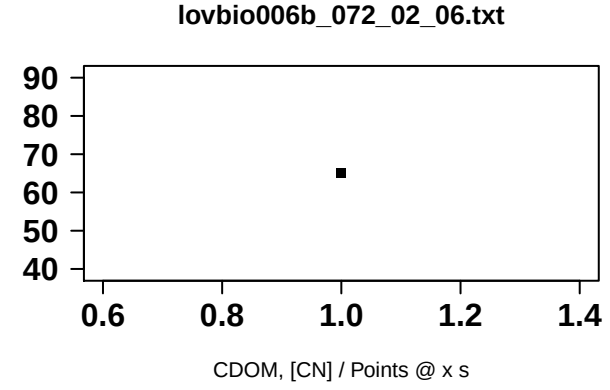

lovbio006b_072_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

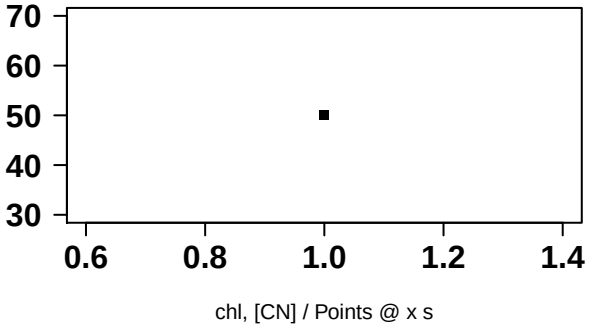

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

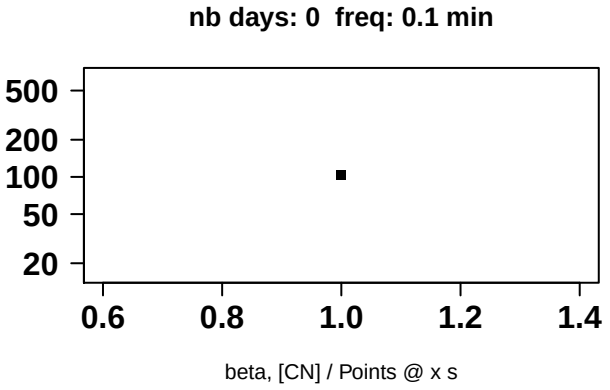

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

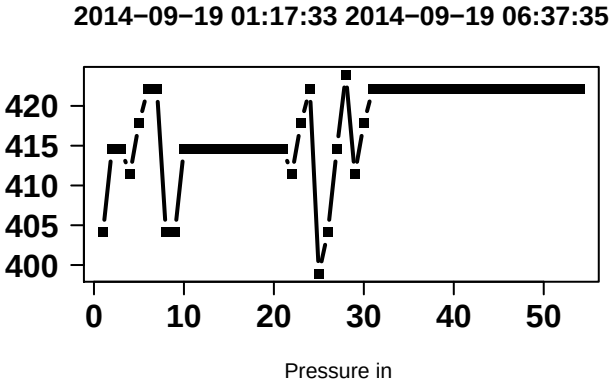

2014−09−18 18:45:54 2014−09−18 18:46:01
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

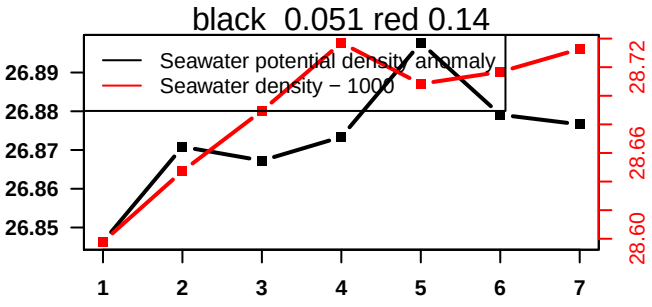

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

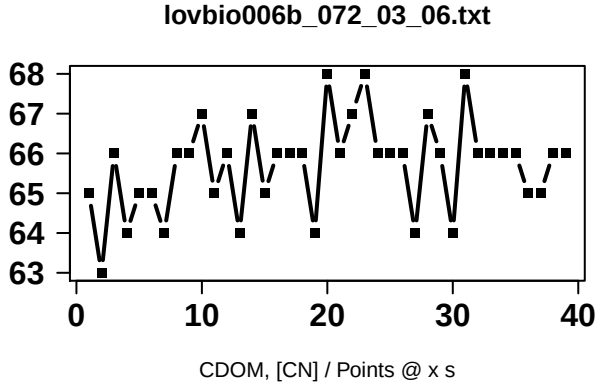

lovbio006b_072_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

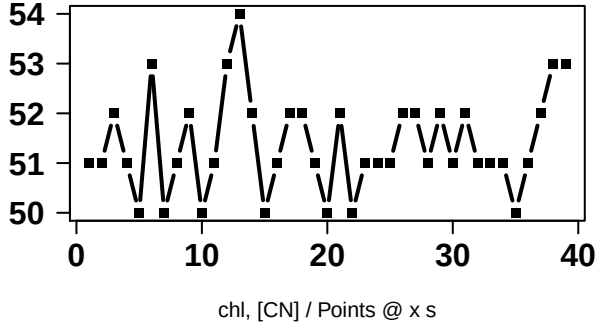

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

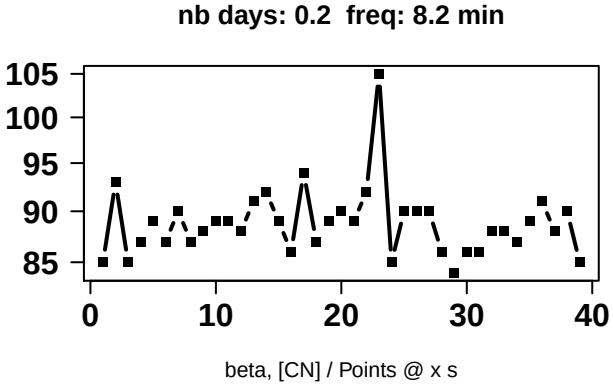

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

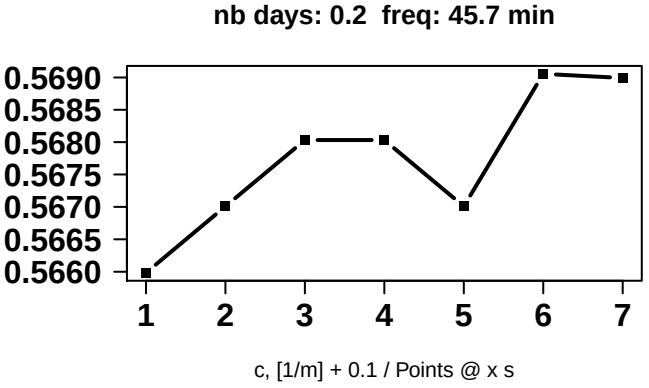

2014−09−19 01:17:33 2014−09−19 06:37:35
420
415
410
405
400
0
10
20
30
40
50
Pressure in

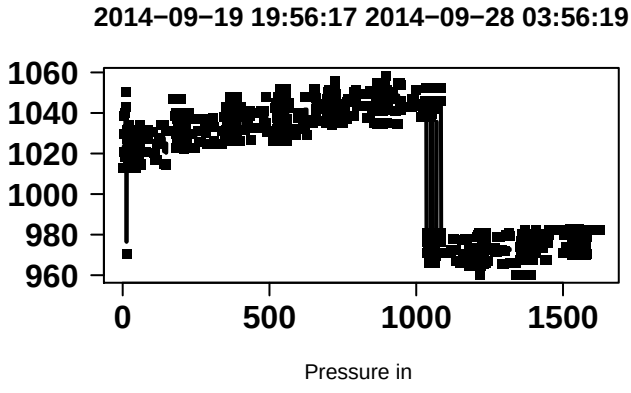

black 0.051 red 0.14
Seawater potential density anomaly
Seawater density − 1000
26.89
26.88
26.87
26.86
26.85
28.72
28.66
28.60
1
2
3
4
5
6
7

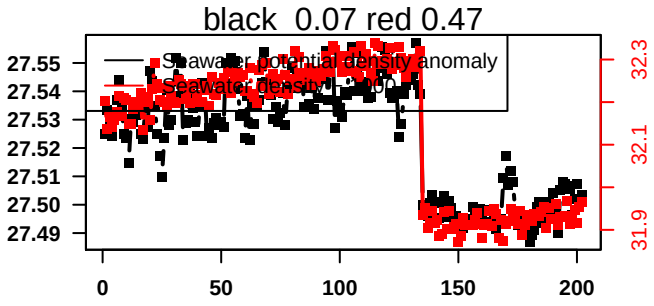

lovbio006b_072_03_06.txt
68
67
66
65
64
63
0
10
20
30
40
CDOM, [CN] / Points @ x s

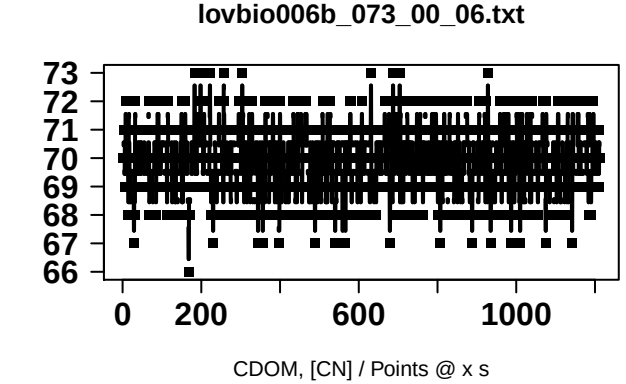

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

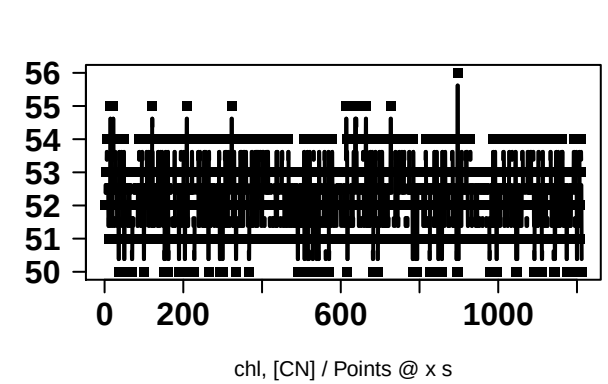

nb days: 0.2 freq: 8.2 min
105
100
95
90
85
0
10
20
30
40
beta, [CN] / Points @ x s

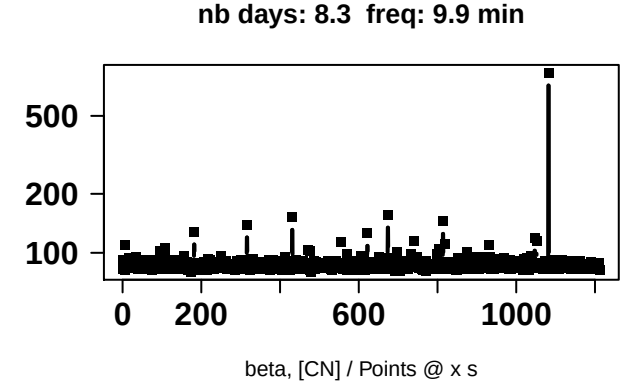

nb days: 0.2 freq: 45.7 min
0.5690
0.5685
0.5680
0.5675
0.5670
0.5665
0.5660
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

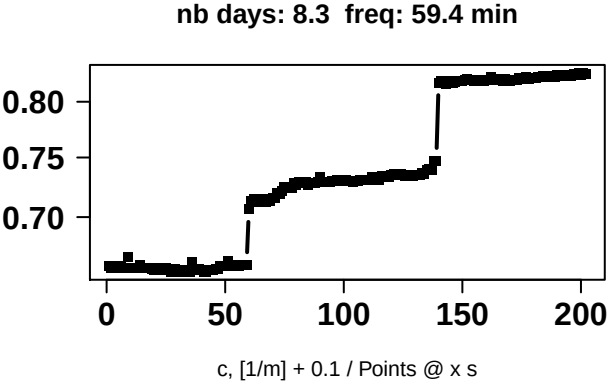

2014−09−19 19:56:17 2014−09−28 03:56:19
1060
1040
1020
1000
980
960
0
500
1000
1500
Pressure in

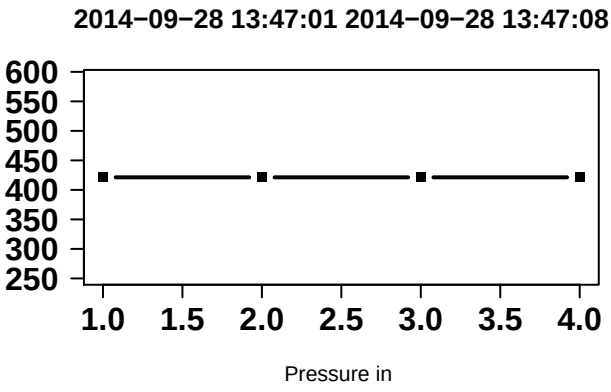

black 0.07 red 0.47
Seawater potential density anomaly
Seawater density
27.55
27.54
27.53
27.52
27.51
27.50
27.49
32.3
32.1
31.9
0
50
100
150
200

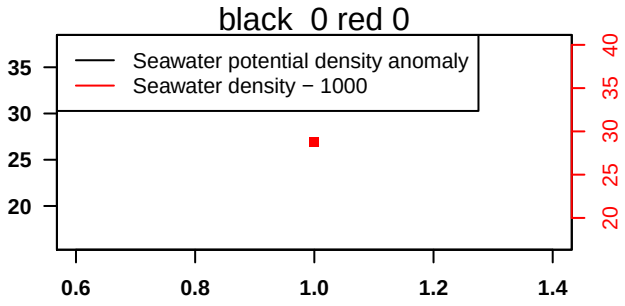

lovbio006b_073_00_06.txt
73
72
71
70
69
68
67
66
0
200
600
1000
CDOM, [CN] / Points @ x s

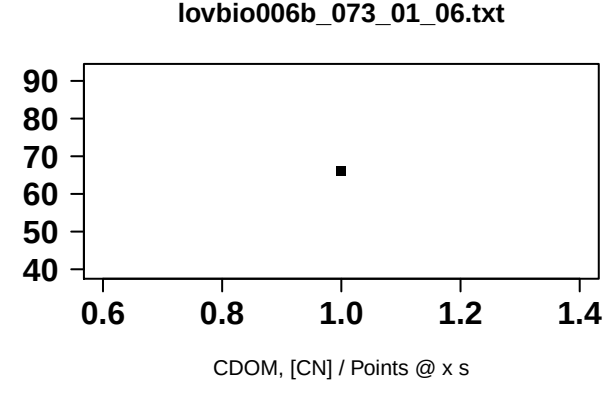

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

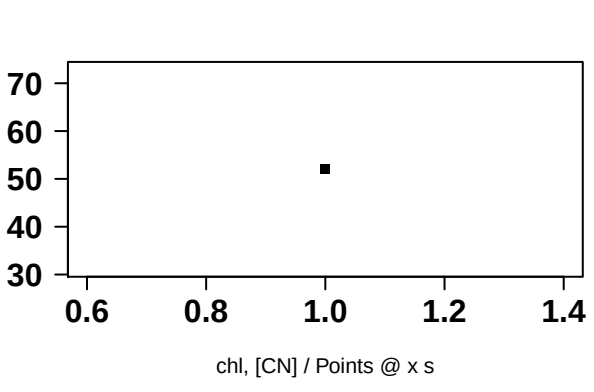

nb days: 8.3 freq: 9.9 min
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

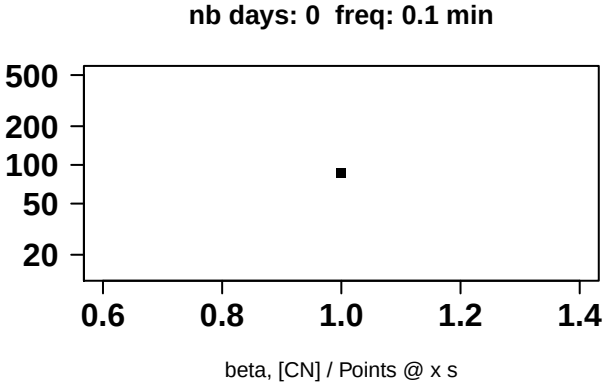

nb days: 8.3 freq: 59.4 min
0.80
0.75
0.70
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

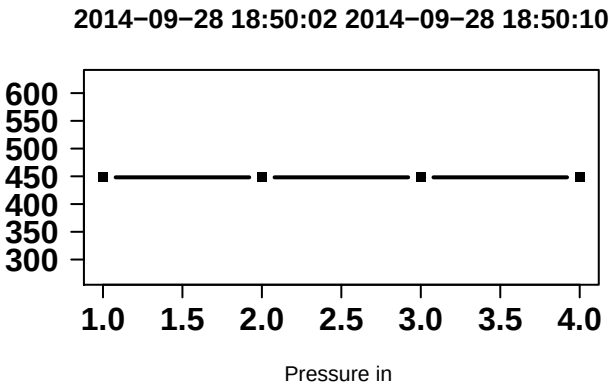

2014−09−28 13:47:01 2014−09−28 13:47:08
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

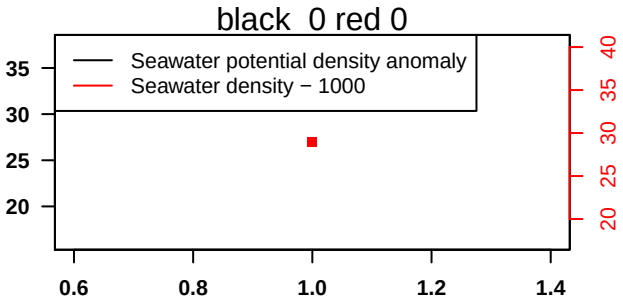

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

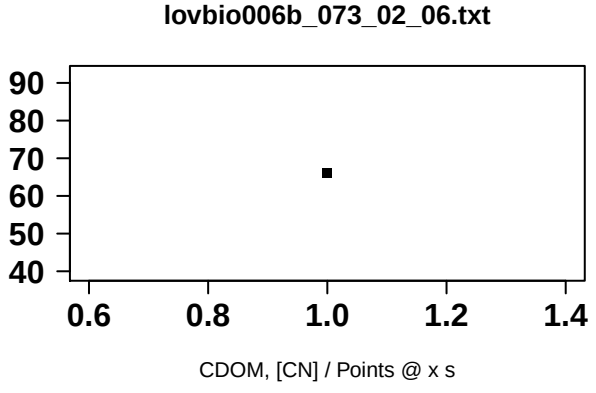

lovbio006b_073_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

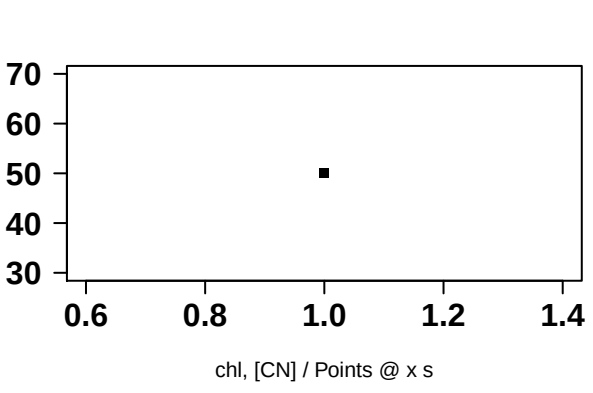

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

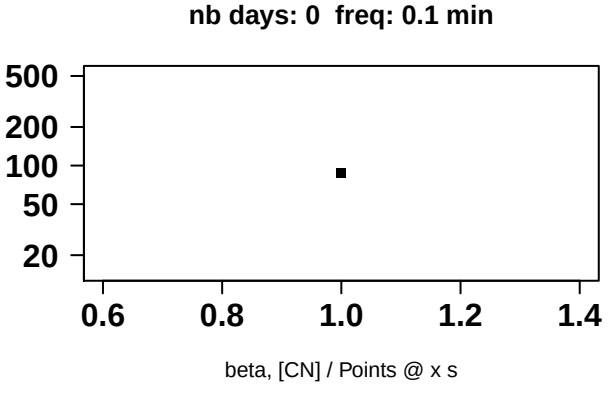

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

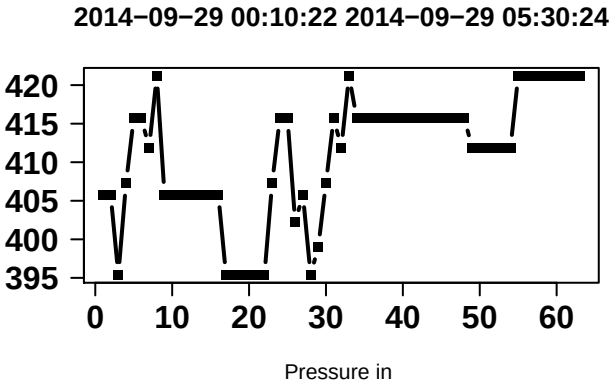

2014−09−28 18:50:02 2014−09−28 18:50:10
600
550
500
450
400
350
300
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

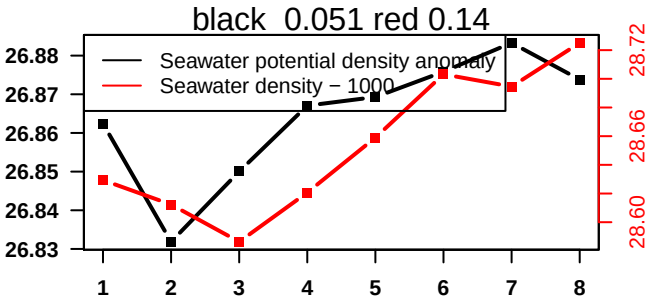

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

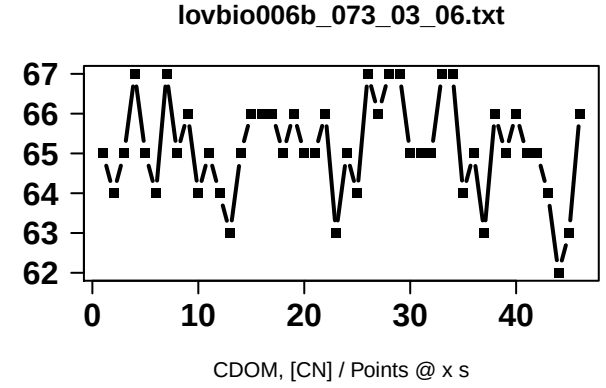

lovbio006b_073_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

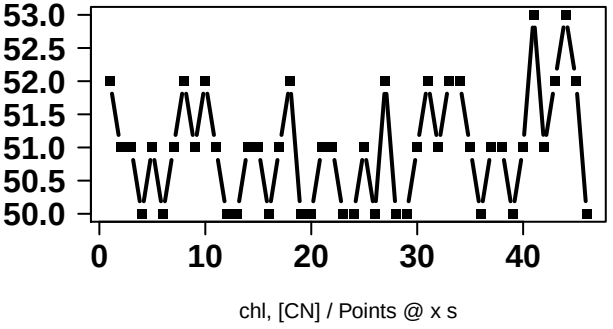

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

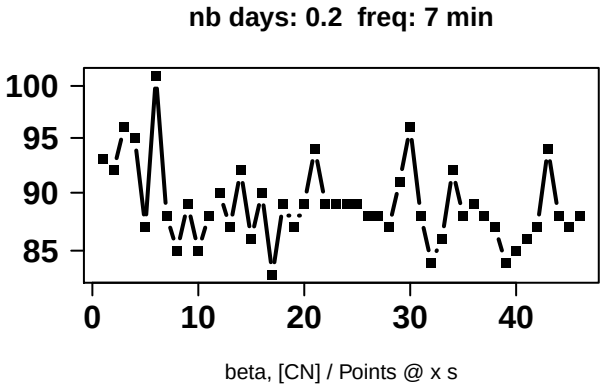

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

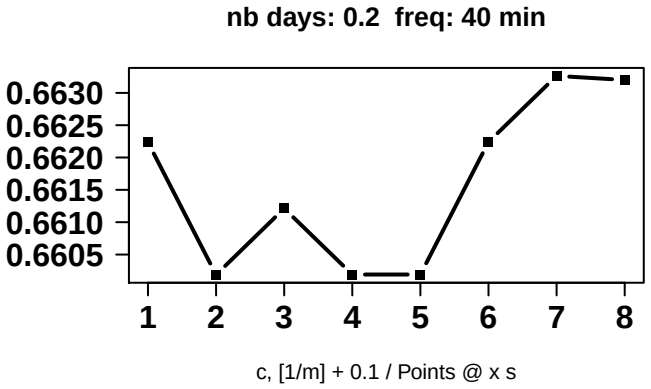

2014−09−29 00:10:22 2014−09−29 05:30:24
420
415
410
405
400
395
0
10
20
30
40
50
60
Pressure in

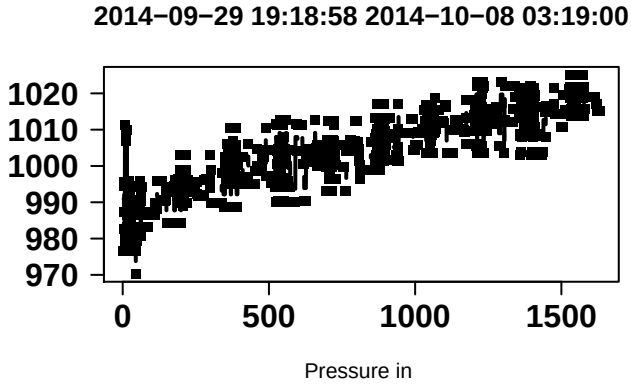

black 0.051 red 0.14
Seawater potential density anomaly
Seawater density − 1000
26.88
26.87
26.86
26.85
26.84
26.83
28.72
28.66
28.60
1
2
3
4
5
6
7
8

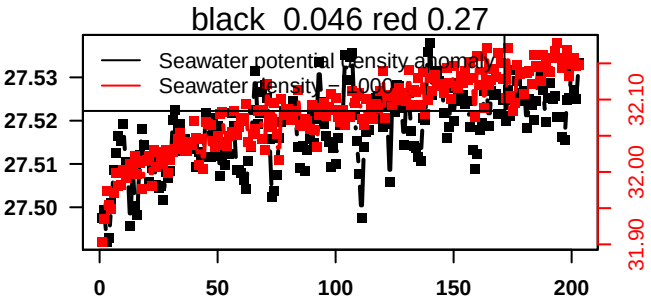

lovbio006b_073_03_06.txt
67
66
65
64
63
62
0
10
20
30
40
CDOM, [CN] / Points @ x s

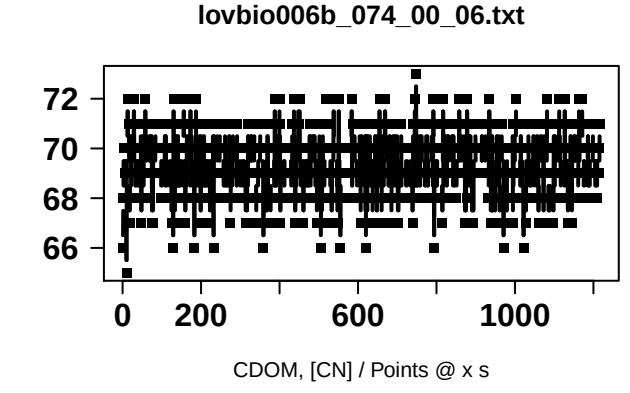

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
chl, [CN] / Points @ x s

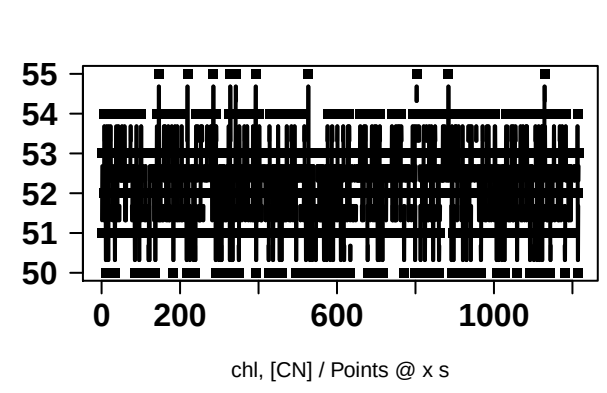

nb days: 0.2 freq: 7 min
100
95
90
85
0
10
20
30
40
beta, [CN] / Points @ x s

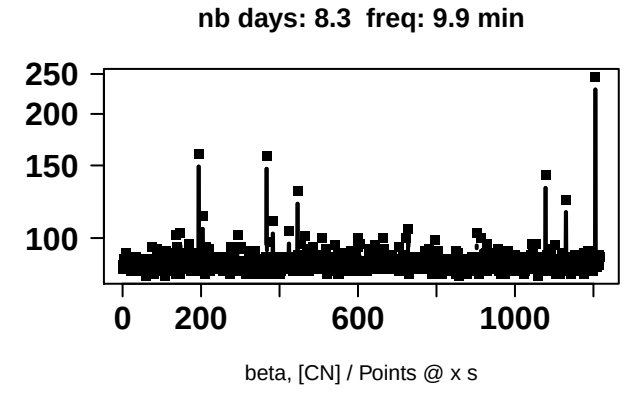

nb days: 0.2 freq: 40 min
0.6630
0.6625
0.6620
0.6615
0.6610
0.6605
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

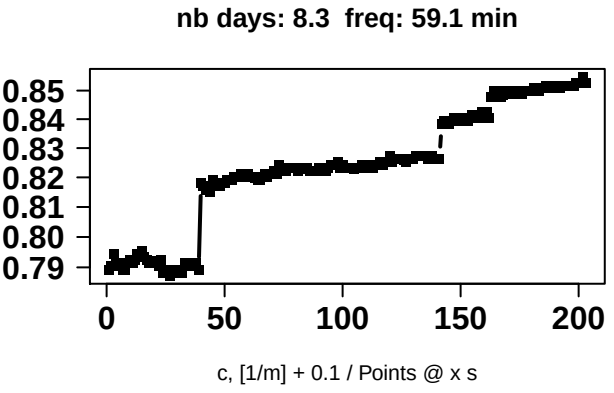

2014−09−29 19:18:58 2014−10−08 03:19:00
1020
1010
1000
990
980
970
0
500
1000
1500
Pressure in

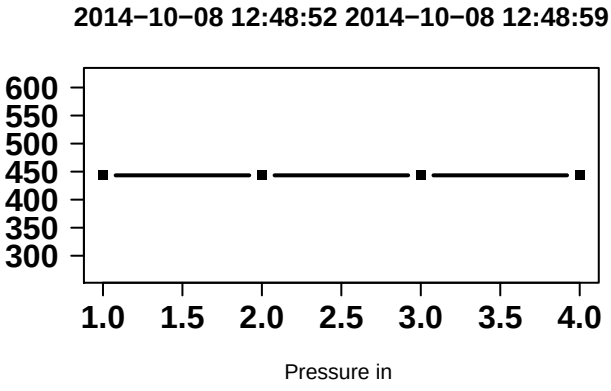

black 0.046 red 0.27
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
0
50
100
150
200
32.10
32.00
31.90

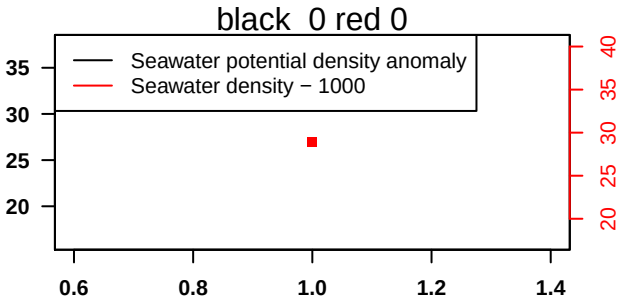

lovbio006b_074_00_06.txt
72
70
68
66
0
200
600
1000
CDOM, [CN] / Points @ x s

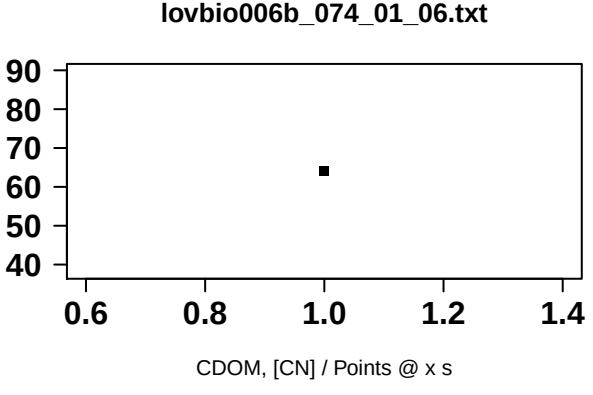

55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

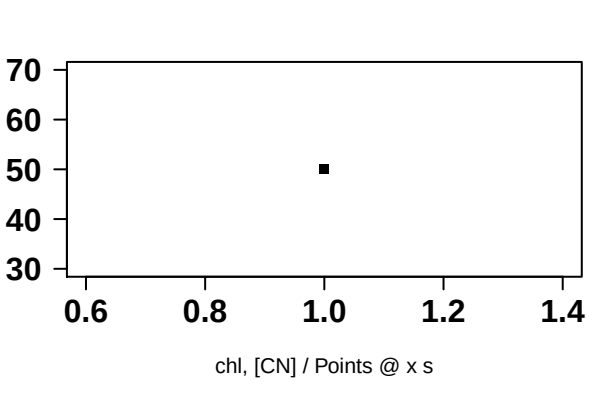

nb days: 8.3 freq: 9.9 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

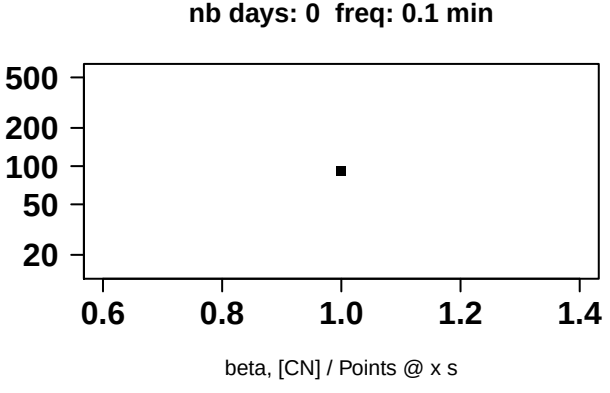

nb days: 8.3 freq: 59.1 min
0.85
0.84
0.83
0.82
0.81
0.80
0.79
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

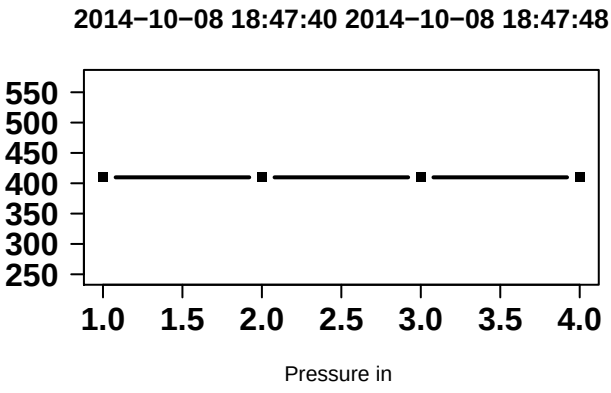

2014−10−08 12:48:52 2014−10−08 12:48:59
600
550
500
450
400
350
300
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

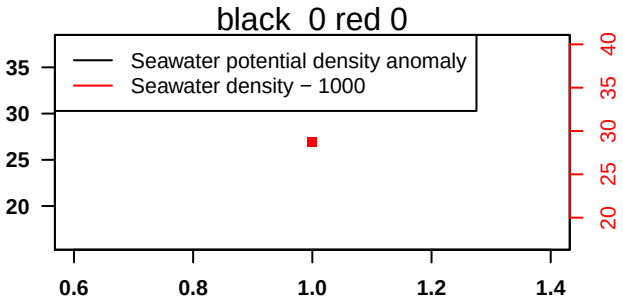

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

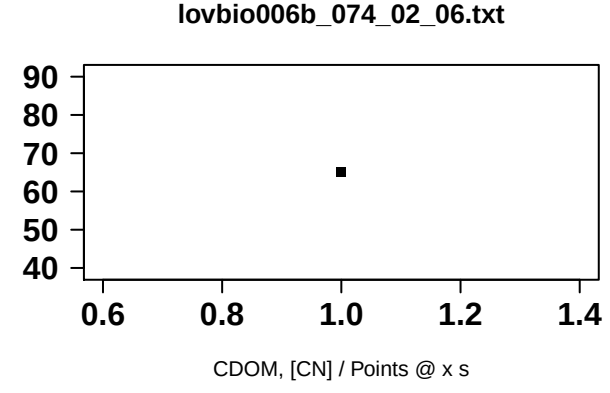

lovbio006b_074_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

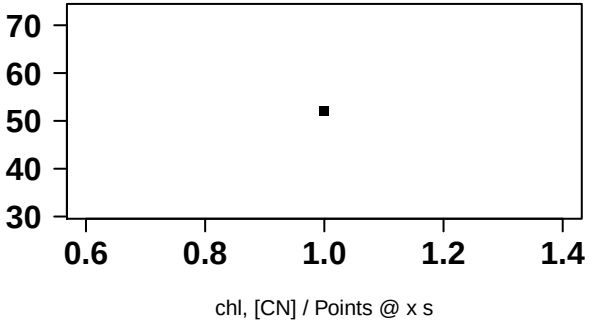

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

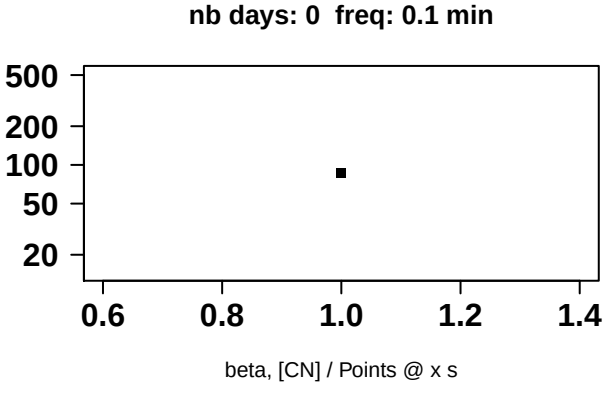

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

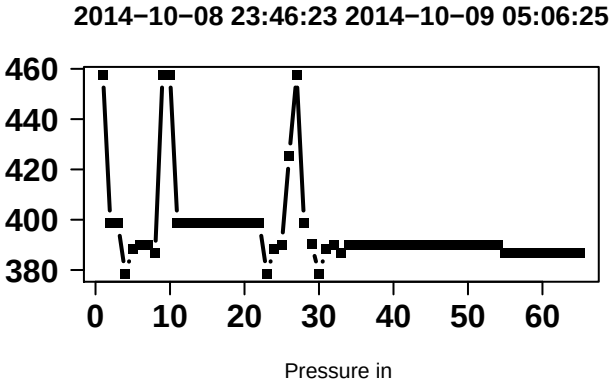

2014−10−08 18:47:40 2014−10−08 18:47:48
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

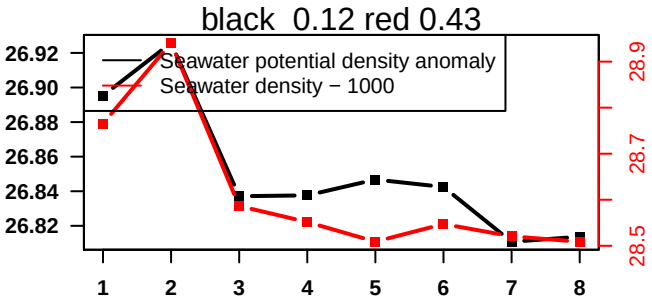

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

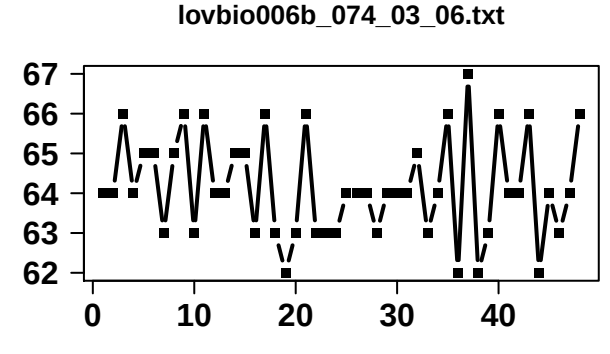

lovbio006b_074_02_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

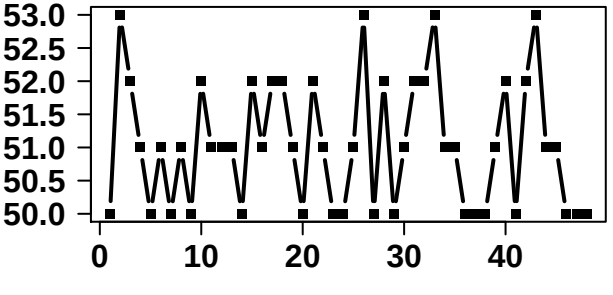

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

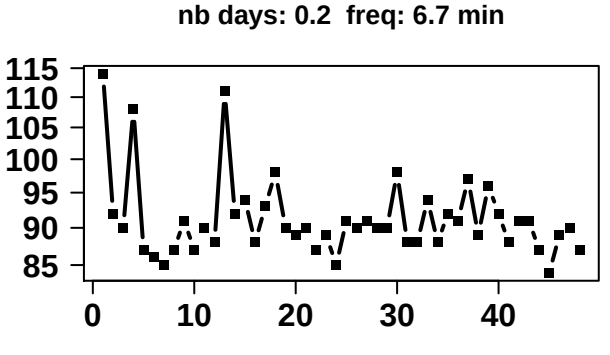

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

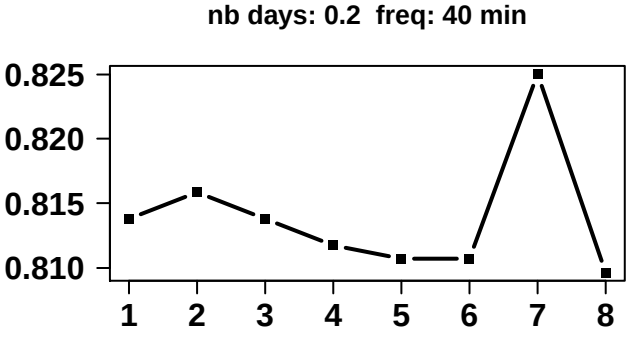

2014−10−08 23:46:23 2014−10−09 05:06:25
460
440
420
400
380
0
10
20
30
40
50
60
Pressure in

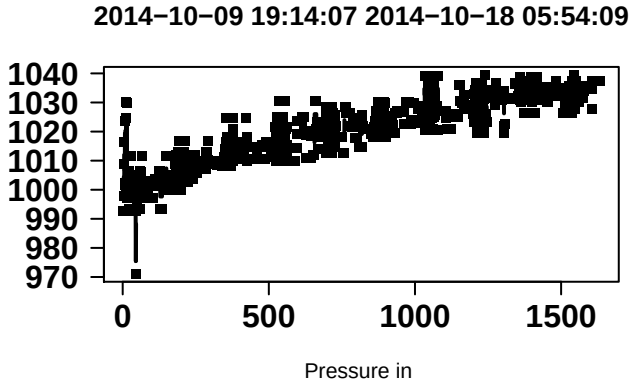

black 0.12 red 0.43
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
26.84
26.82
28.9
28.7
28.5
1
2
3
4
5
6
7
8

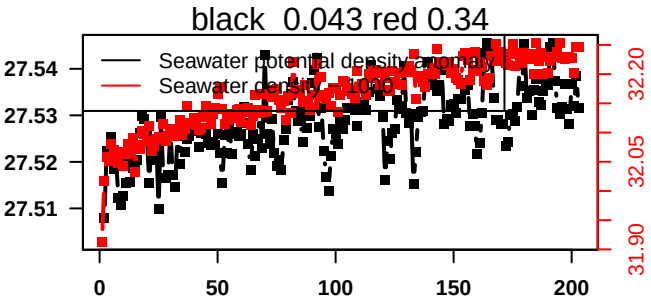

lovbio006b_074_03_06.txt
67
66
65
64
63
62
0
10
20
30
40
CDOM, [CN] / Points @ x s

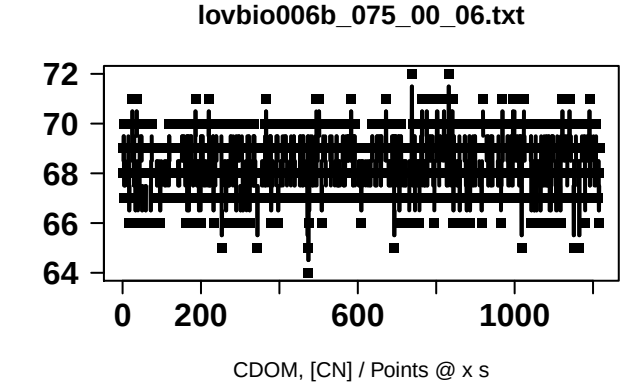

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
chl, [CN] / Points @ x s

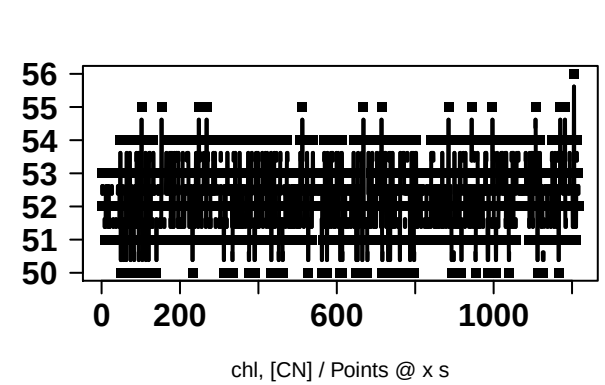

nb days: 0.2 freq: 6.7 min
115
110
105
100
95
90
85
0
10
20
30
40
beta, [CN] / Points @ x s

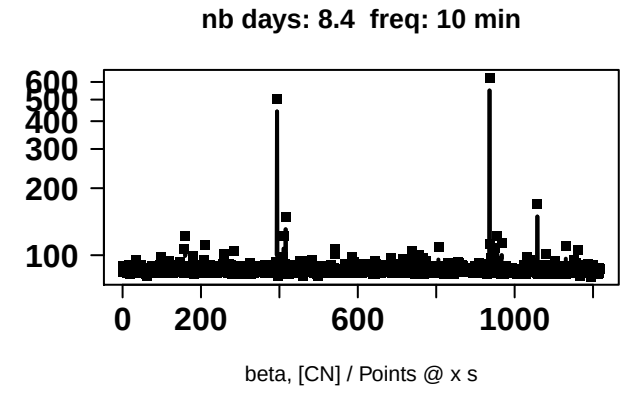

nb days: 0.2 freq: 40 min
0.825
0.820
0.815
0.810
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

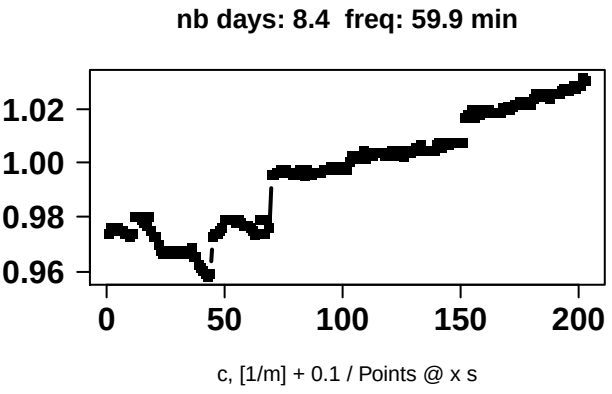

2014−10−09 19:14:07 2014−10−18 05:54:09
1040
1030
1020
1010
1000
990
980
970
0
500
1000
1500
Pressure in

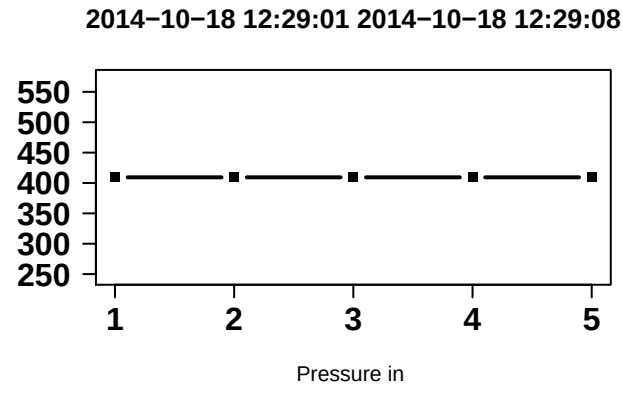

black 0.043 red 0.34
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
32.20
32.05
31.90
0
50
100
150
200

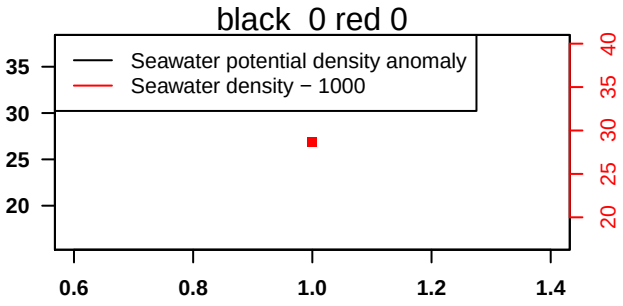

lovbio006b_075_00_06.txt
72
70
68
66
64
0
200
600
1000
CDOM, [CN] / Points @ x s

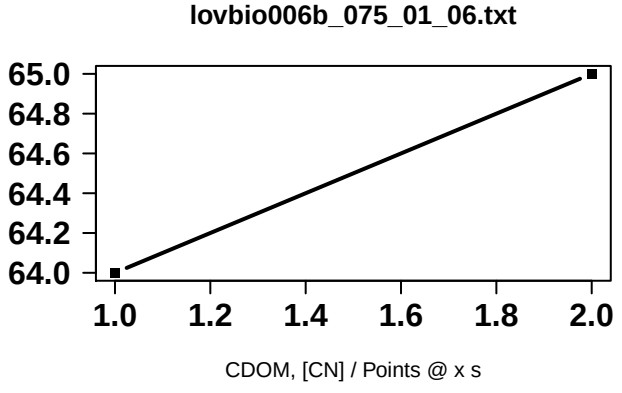

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

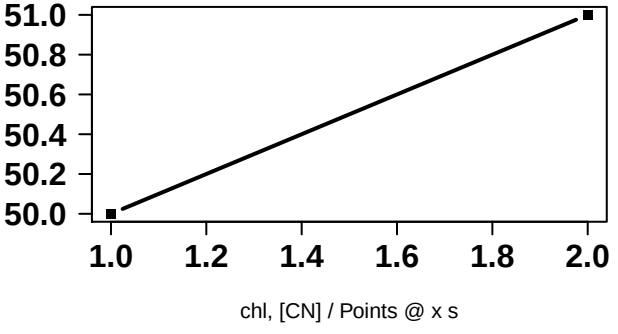

nb days: 8.4 freq: 10 min
600
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

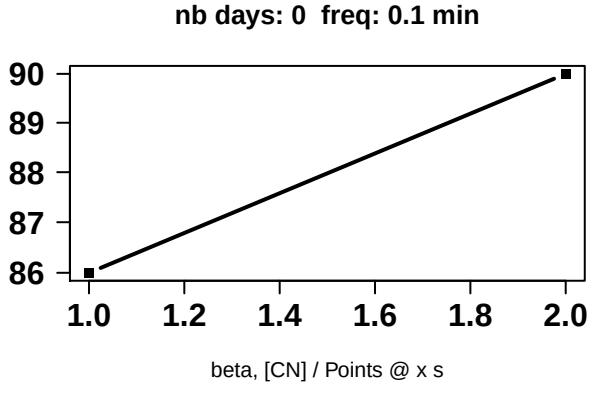

nb days: 8.4 freq: 59.9 min
1.02
1.00
0.98
0.96
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

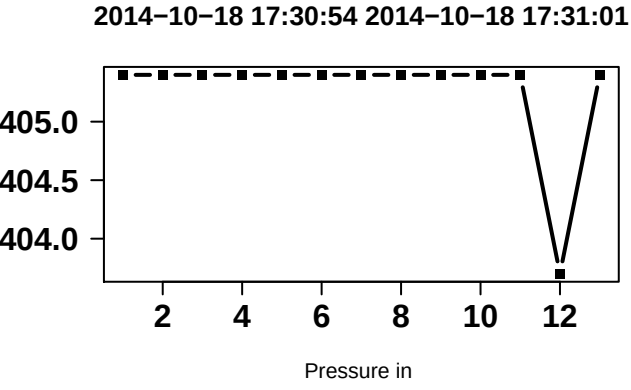

2014−10−18 12:29:01 2014−10−18 12:29:08
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

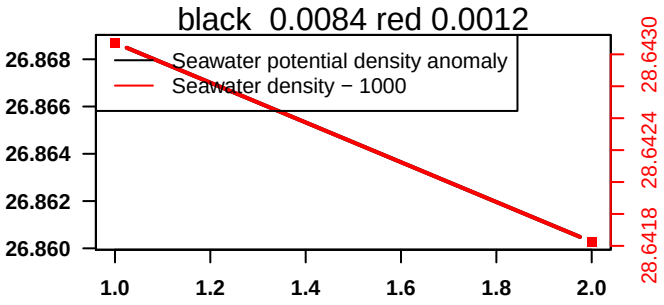

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

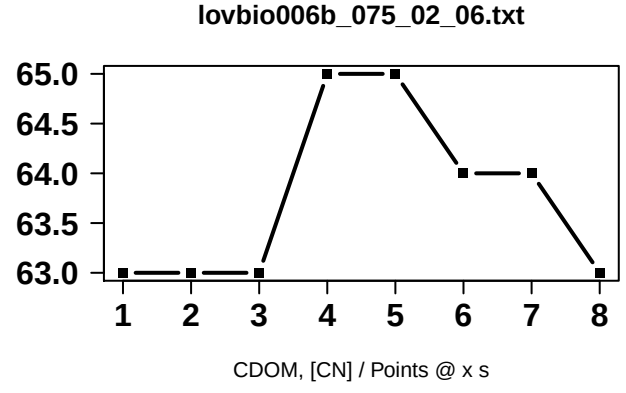

lovbio006b_075_01_06.txt
65.0
64.8
64.6
64.4
64.2
64.0
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

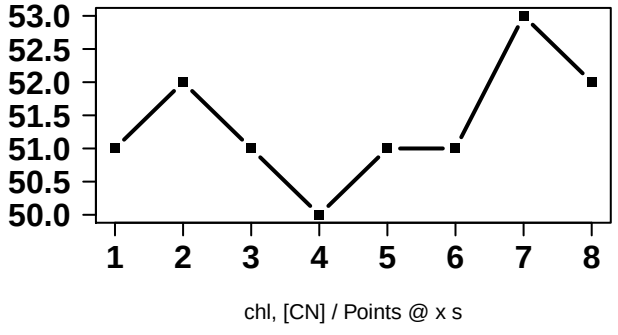

51.0
50.8
50.6
50.4
50.2
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

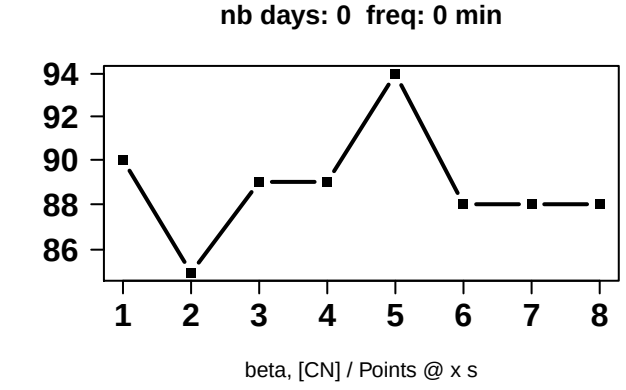

nb days: 0 freq: 0.1 min
90
89
88
87
86
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

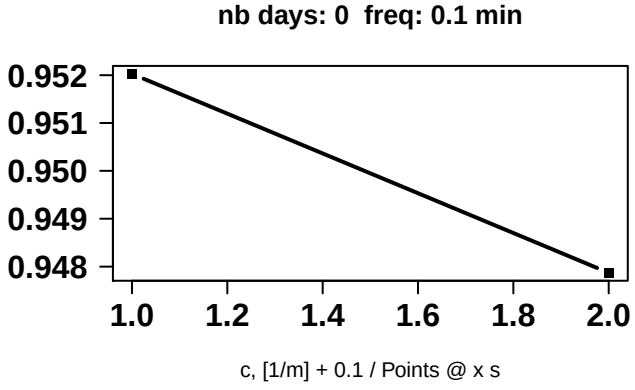

2014−10−18 17:30:54 2014−10−18 17:31:01
405.0
404.5
404.0
2
4
6
8
10
12
Pressure in

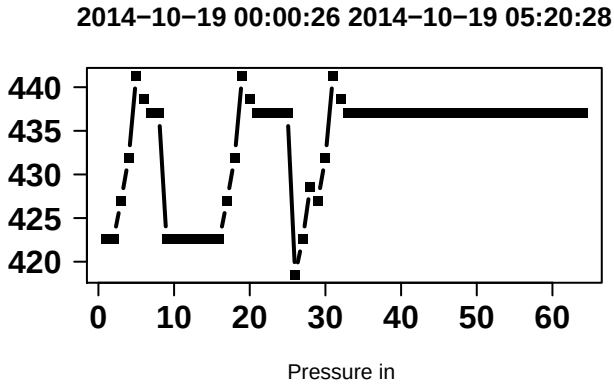

black 0.0084 red 0.0012
Seawater potential density anomaly
Seawater density − 1000
26.868
26.866
26.864
26.862
26.860
28.6430
28.6424
28.6418
1.0
1.2
1.4
1.6
1.8
2.0

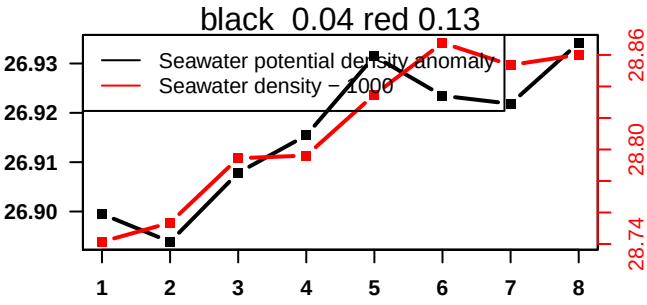

lovbio006b_075_02_06.txt
65.0
64.5
64.0
63.5
63.0
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

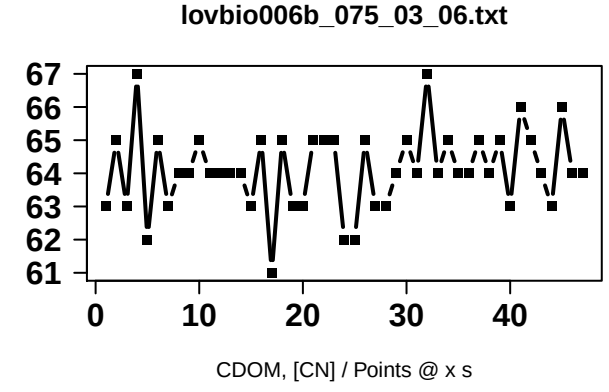

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

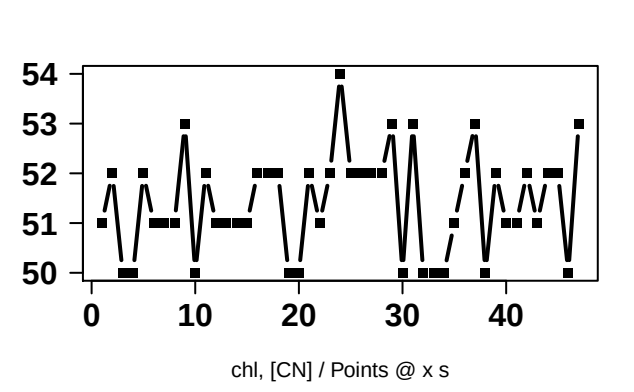

nb days: 0 freq: 0 min
94
92
90
88
86
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

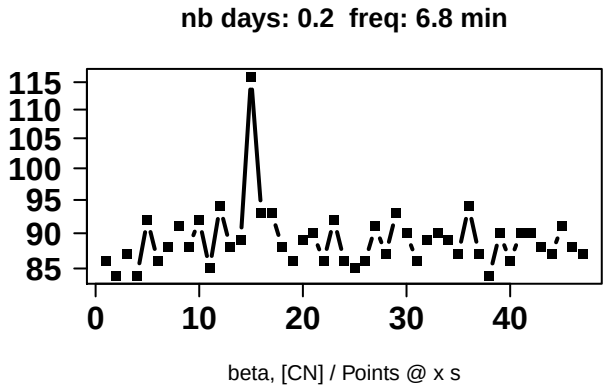

nb days: 0 freq: 0.1 min
0.952
0.951
0.950
0.949
0.948
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

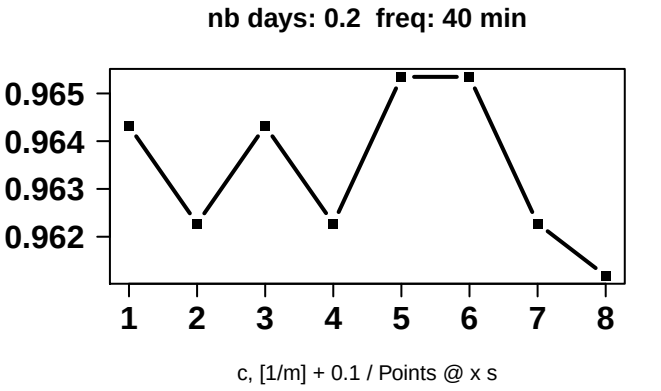

2014−10−19 00:00:26 2014−10−19 05:20:28
440
435
430
425
420
0
10
20
30
40
50
60
Pressure in

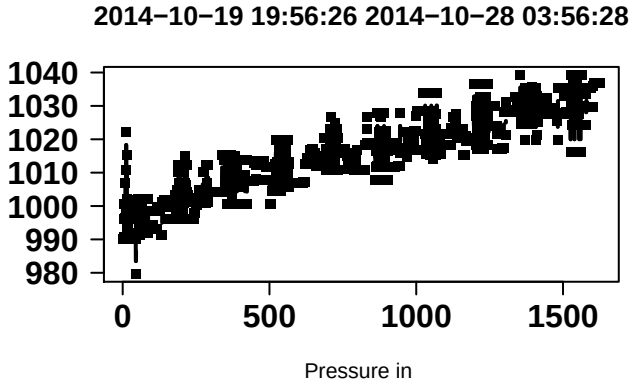

black 0.04 red 0.13
Seawater potential density anomaly
Seawater density − 1000
26.93
26.92
26.91
26.90
28.86
28.80
28.74
1
2
3
4
5
6
7
8

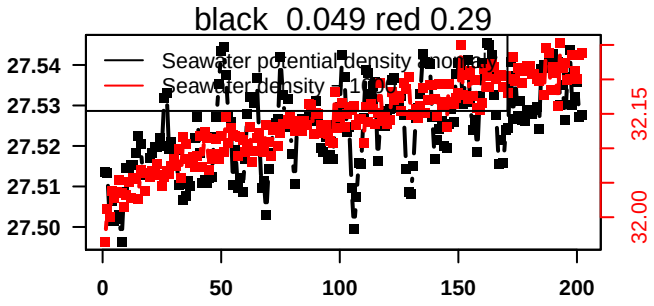

lovbio006b_075_03_06.txt
67
66
65
64
63
62
61
0
10
20
30
40
CDOM, [CN] / Points @ x s

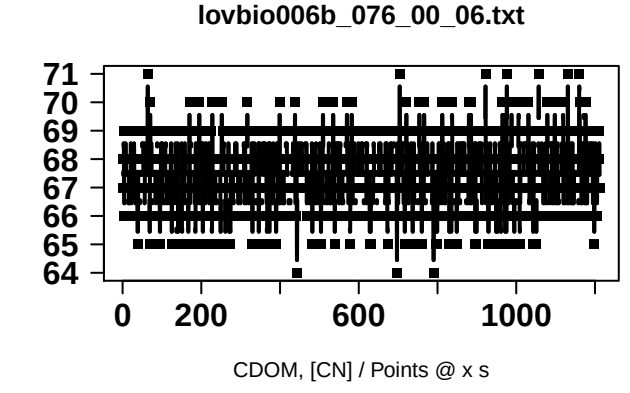

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

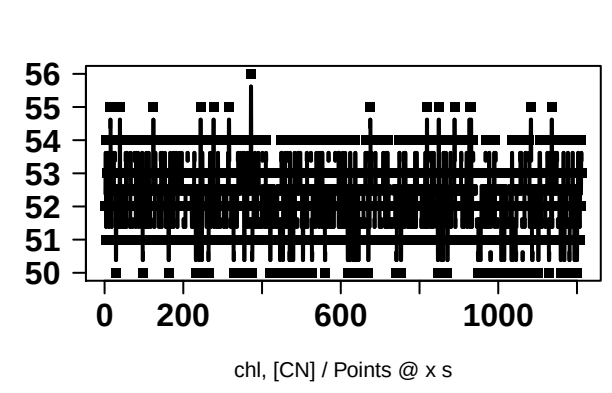

nb days: 0.2 freq: 6.8 min
115
110
105
100
95
90
85
0
10
20
30
40
beta, [CN] / Points @ x s

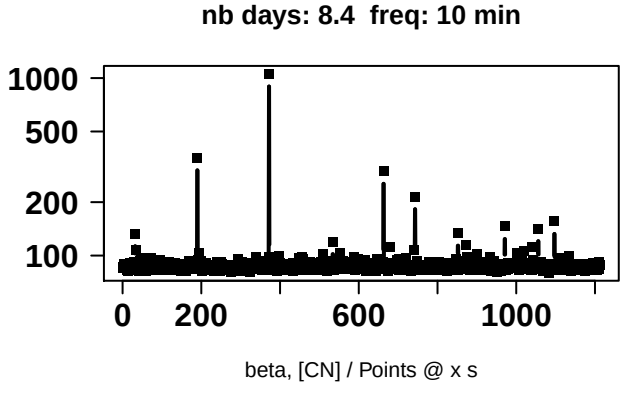

nb days: 0.2 freq: 40 min
0.965
0.964
0.963
0.962
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

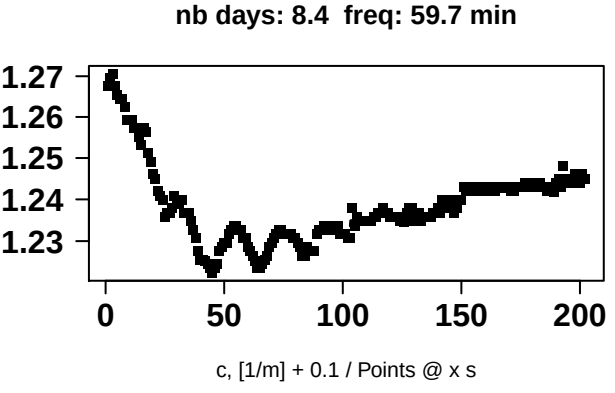

2014−10−19 19:56:26 2014−10−28 03:56:28
1040
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

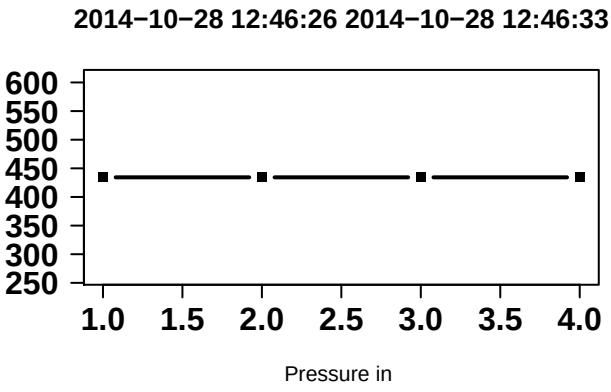

black 0.049 red 0.29
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.15
32.00
0
50
100
150
200

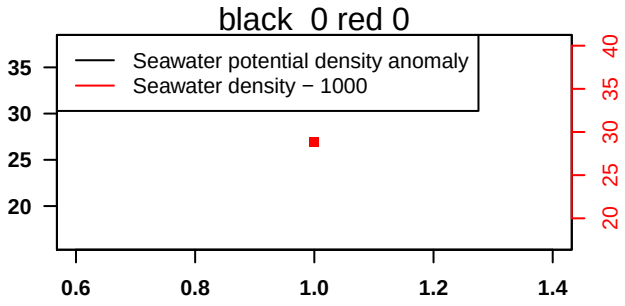

lovbio006b_076_00_06.txt
71
70
69
68
67
66
65
64
0
200
600
1000
CDOM, [CN] / Points @ x s

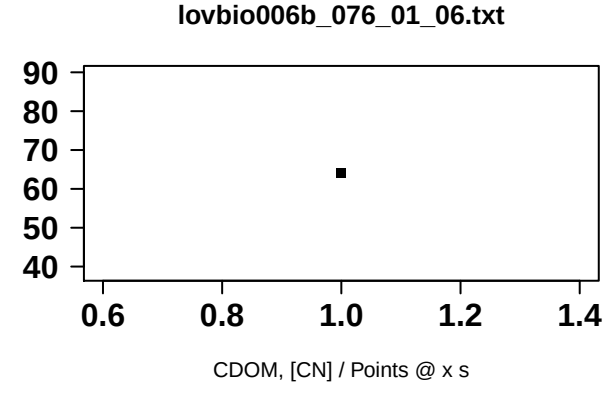

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

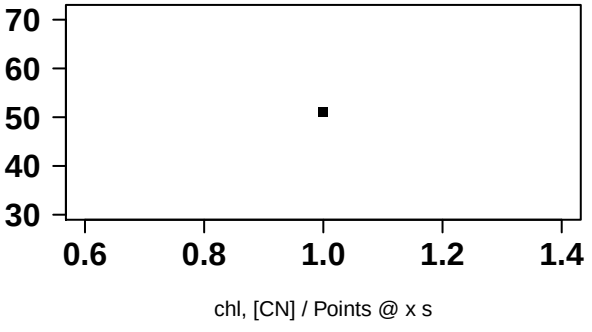

nb days: 8.4 freq: 10 min
1000
500
200
100
0
200
600
1000
beta, [CN] / Points @ x s

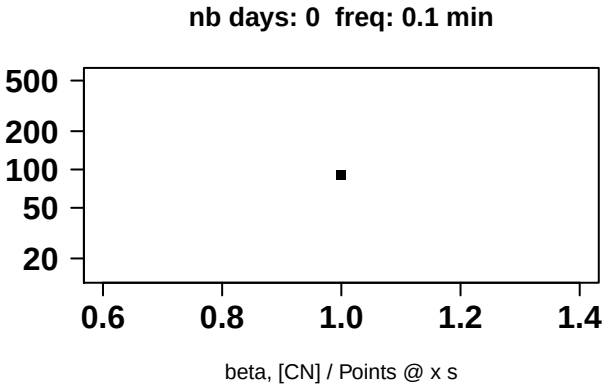

nb days: 8.4 freq: 59.7 min
1.27
1.26
1.25
1.24
1.23
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

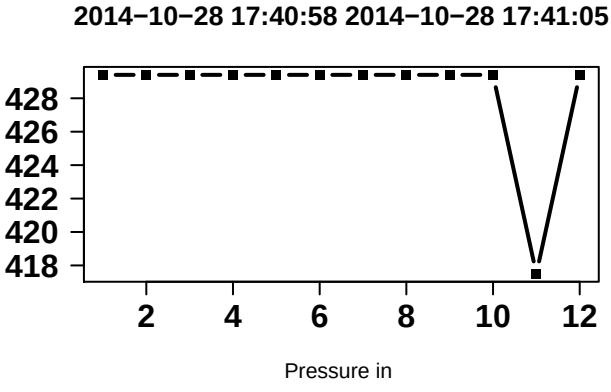

2014−10−28 12:46:26 2014−10−28 12:46:33
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

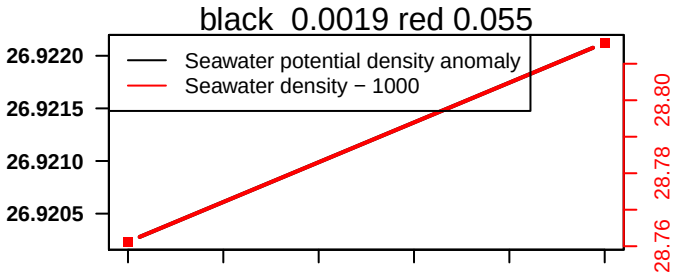

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

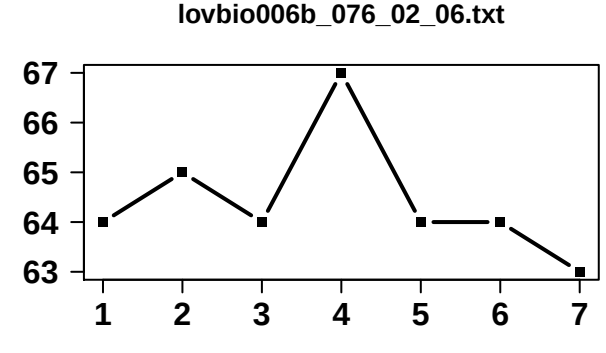

lovbio006b_076_01_06.txt
90
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

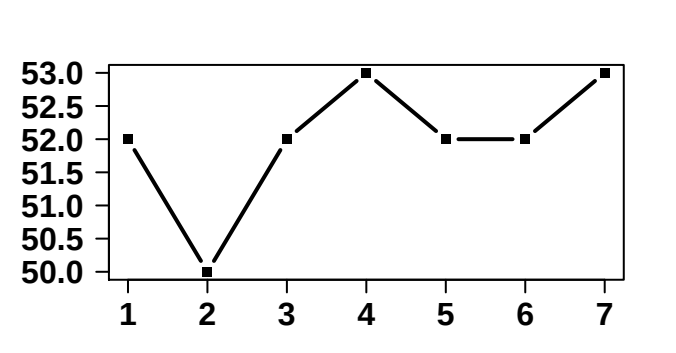

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

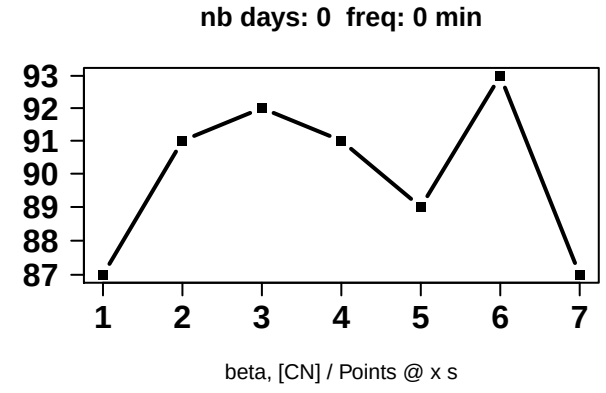

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

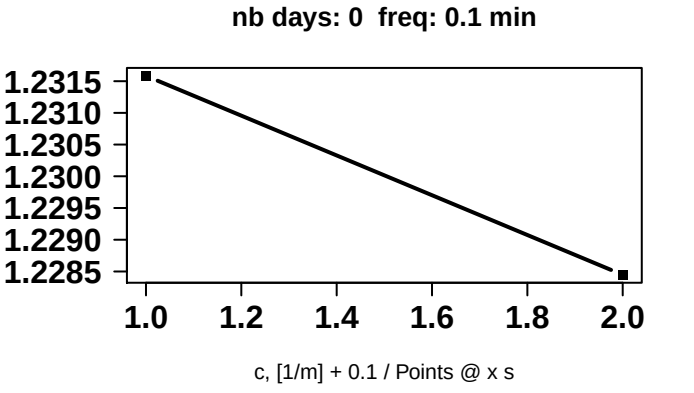

2014−10−28 17:40:58 2014−10−28 17:41:05
428
426
424
422
420
418
2
4
6
8
10
12
Pressure in

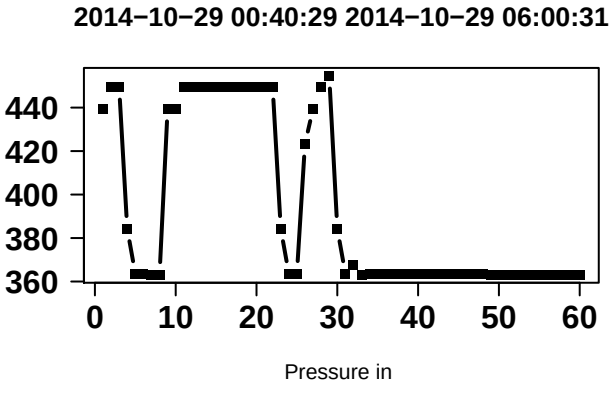

black 0.0019 red 0.055
Seawater potential density anomaly
Seawater density − 1000
26.9220
26.9215
26.9210
26.9205
1.0
1.2
1.4
1.6
1.8
2.0
28.80
28.78
28.76

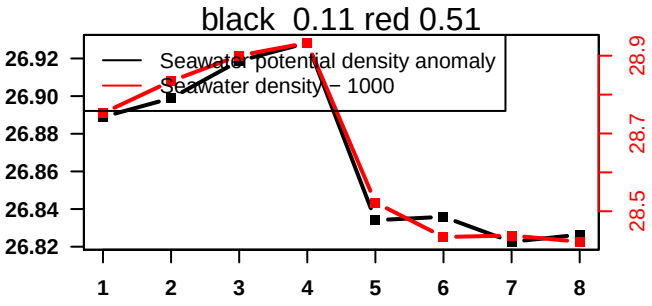

lovbio006b_076_02_06.txt
67
66
65
64
63
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

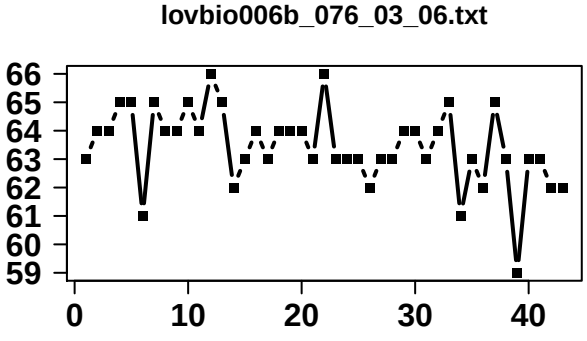

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

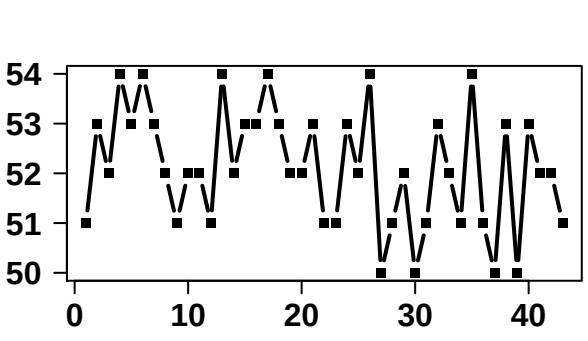

nb days: 0 freq: 0 min
93
92
91
90
89
88
87
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

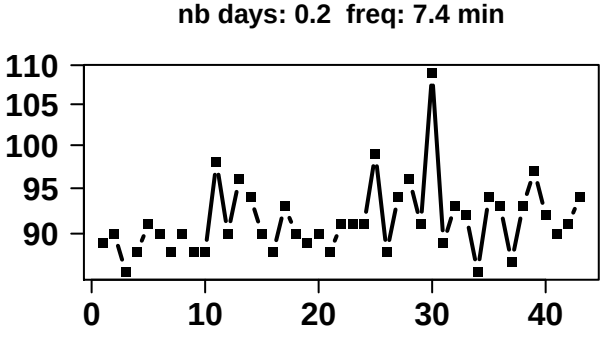

nb days: 0 freq: 0.1 min
1.2315
1.2310
1.2305
1.2300
1.2295
1.2290
1.2285
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

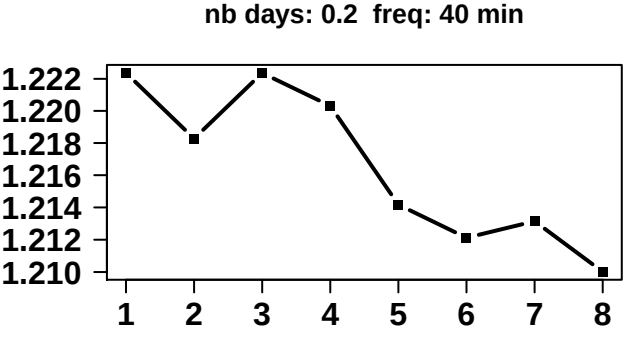

2014−10−29 00:40:29 2014−10−29 06:00:31
440
420
400
380
360
0
10
20
30
40
50
60
Pressure in

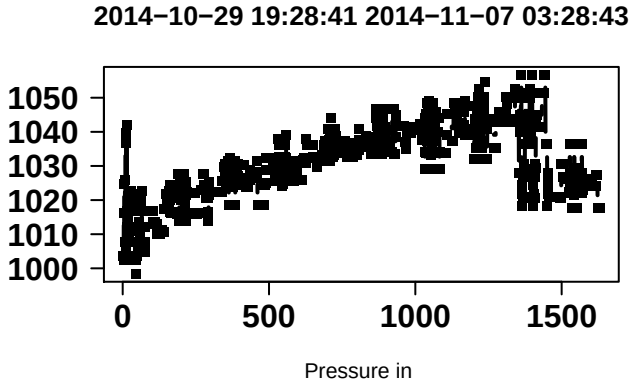

black 0.11 red 0.51
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
26.84
26.82
28.9
28.7
28.5
1
2
3
4
5
6
7
8

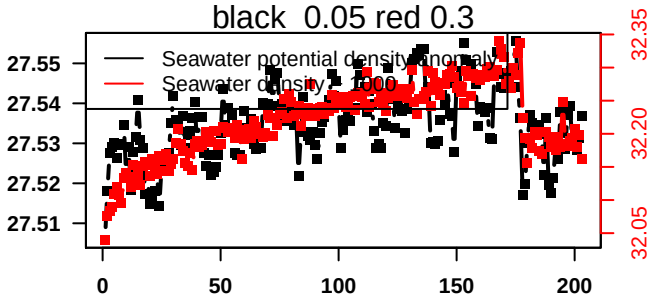

lovbio006b_076_03_06.txt
66
65
64
63
62
61
60
59
0
10
20
30
40
CDOM, [CN] / Points @ x s

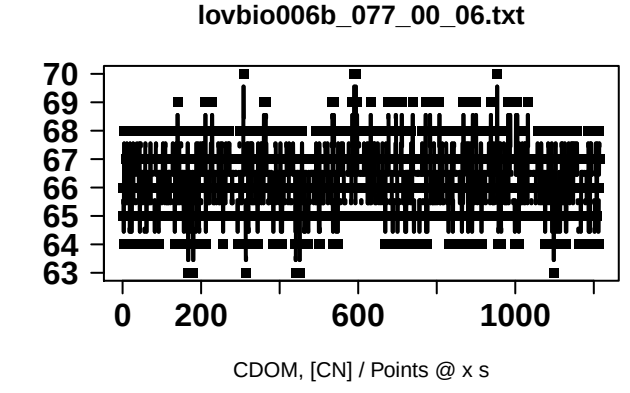

54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

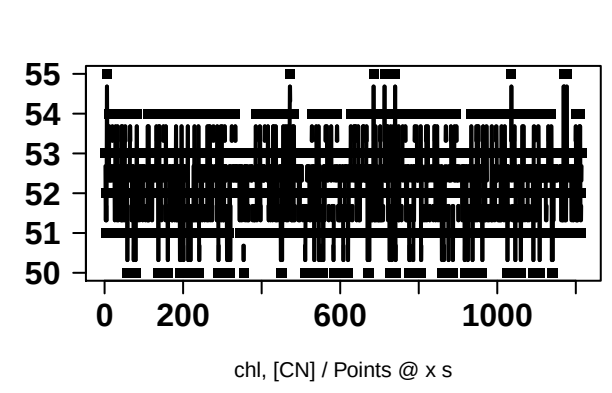

nb days: 0.2 freq: 7.4 min
110
105
100
95
90
0
10
20
30
40
beta, [CN] / Points @ x s

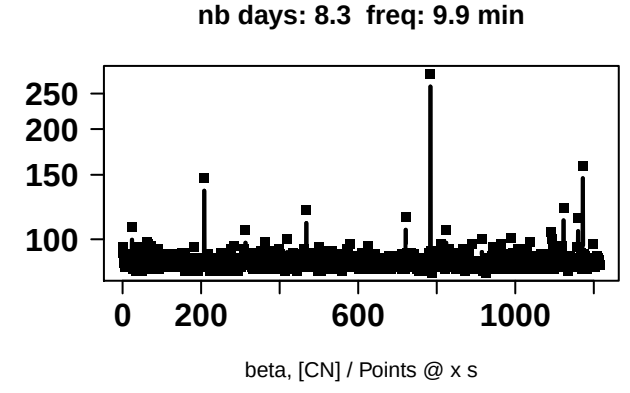

nb days: 0.2 freq: 40 min
1.222
1.220
1.218
1.216
1.214
1.212
1.210
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

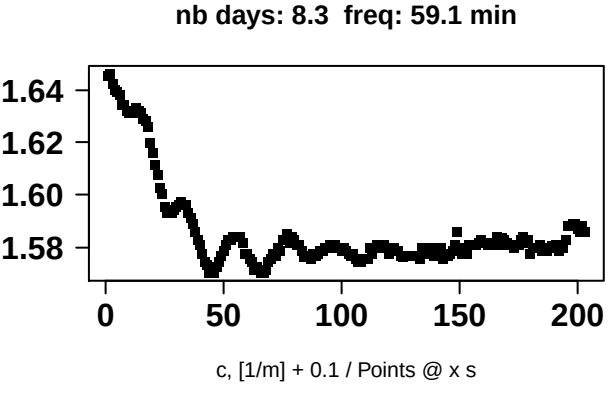

2014−10−29 19:28:41 2014−11−07 03:28:43
1050
1040
1030
1020
1010
1000
0
500
1000
1500
Pressure in

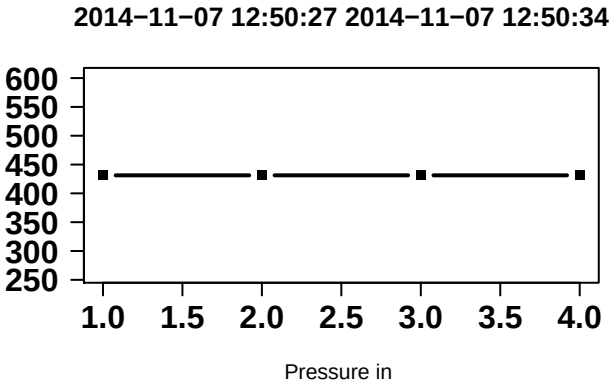

black 0.05 red 0.3
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
32.35
32.20
32.05
0
50
100
150
200

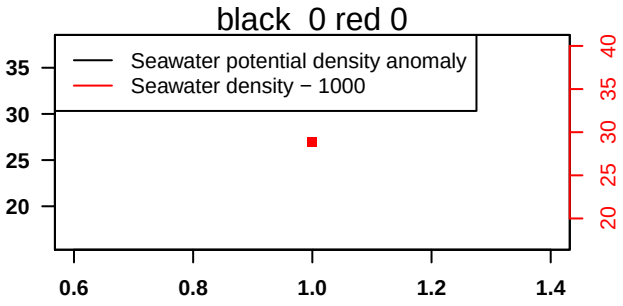

lovbio006b_077_00_06.txt
70
69
68
67
66
65
64
63
0
200
600
1000
CDOM, [CN] / Points @ x s

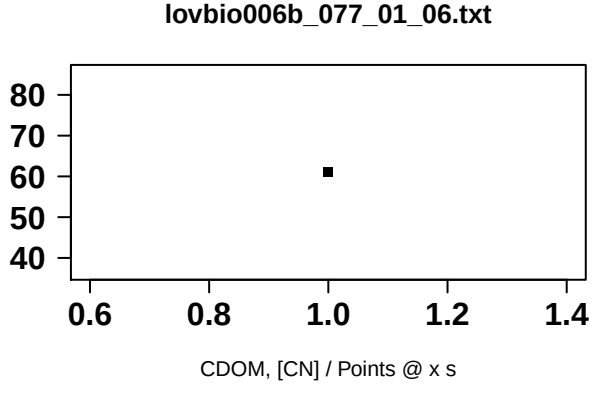

55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

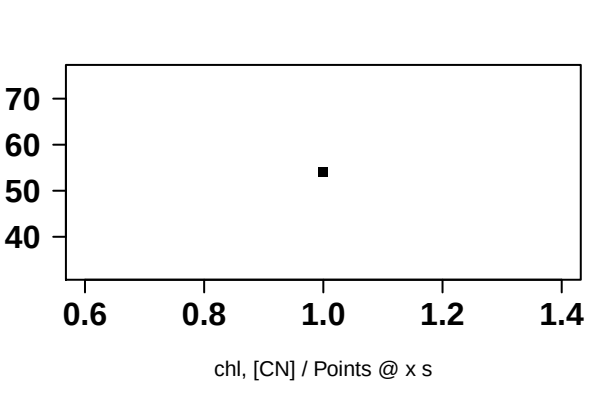

nb days: 8.3 freq: 9.9 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

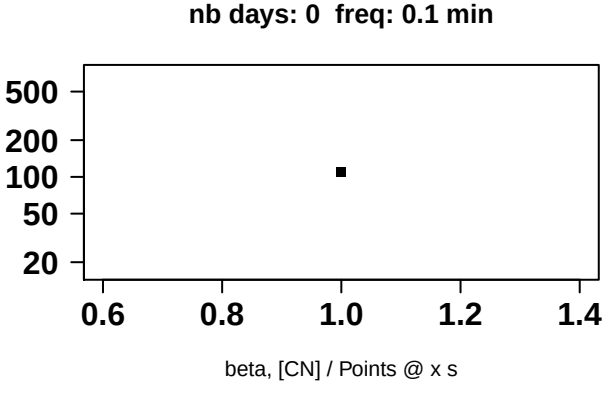

nb days: 8.3 freq: 59.1 min
1.64
1.62
1.60
1.58
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

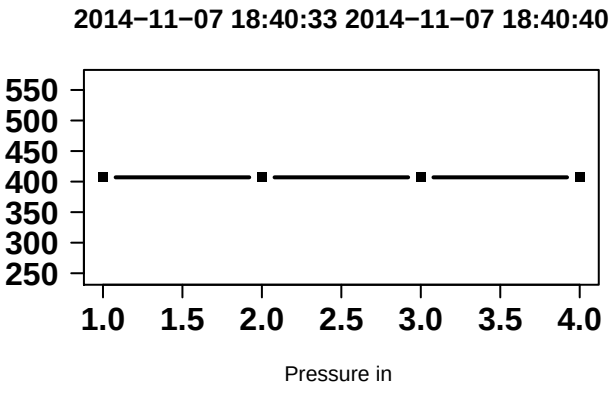

2014−11−07 12:50:27 2014−11−07 12:50:34
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

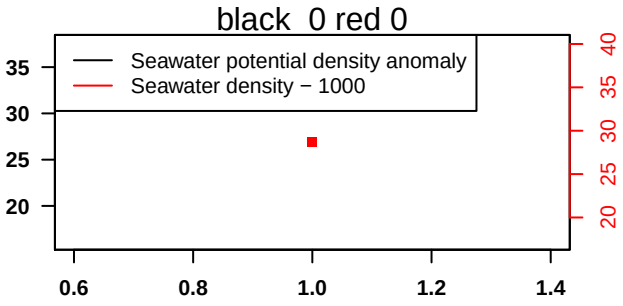

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

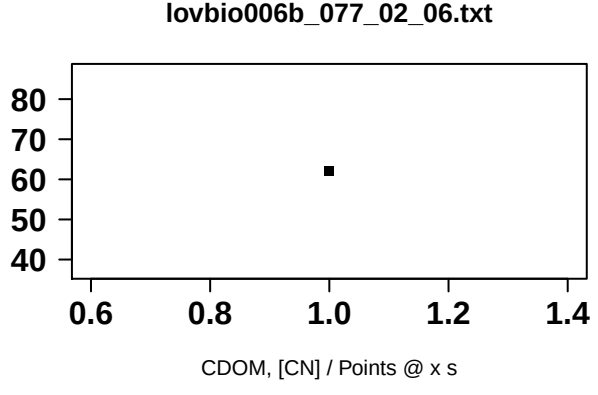

lovbio006b_077_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

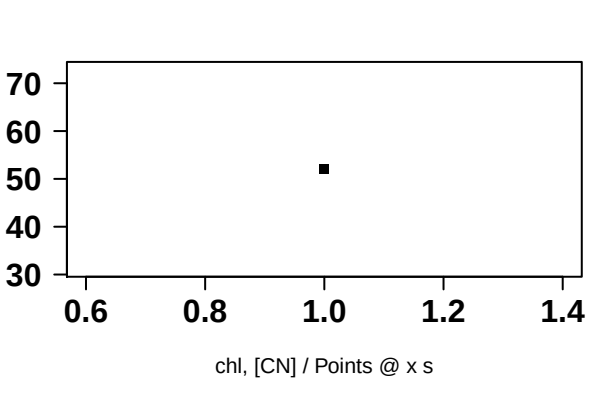

70
60
50
40
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

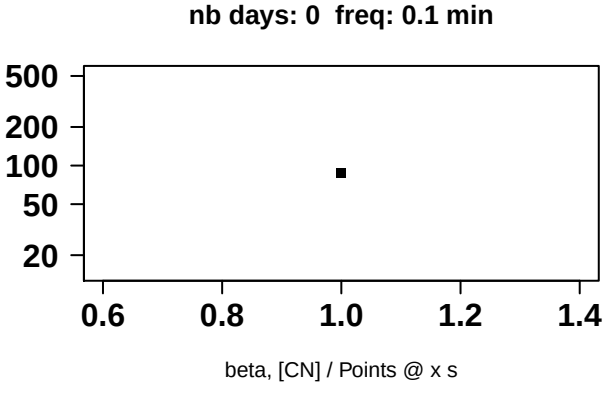

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

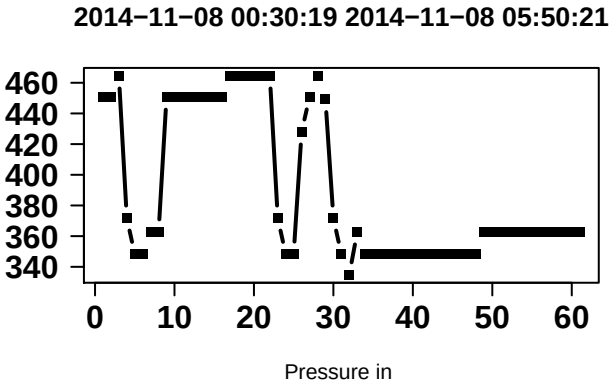

2014−11−07 18:40:33 2014−11−07 18:40:40
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

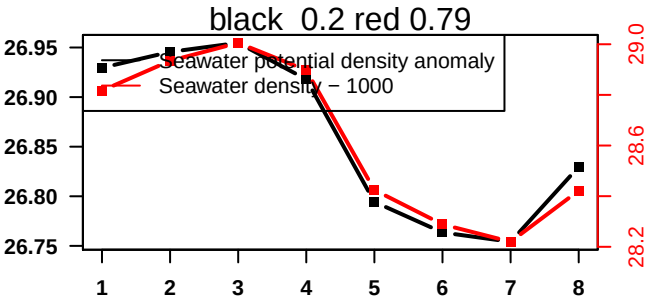

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

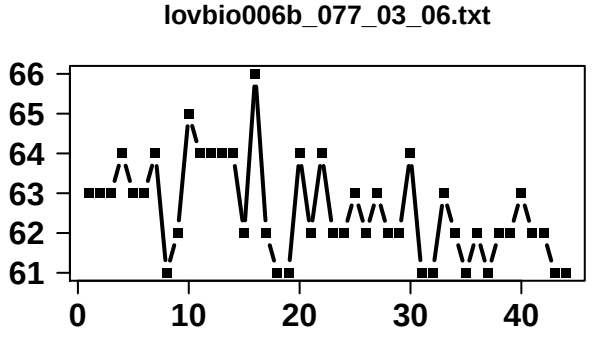

lovbio006b_077_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

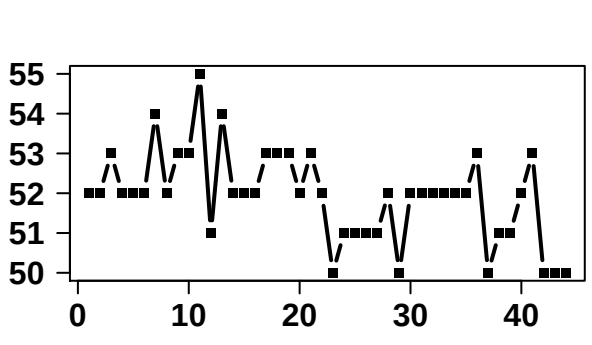

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

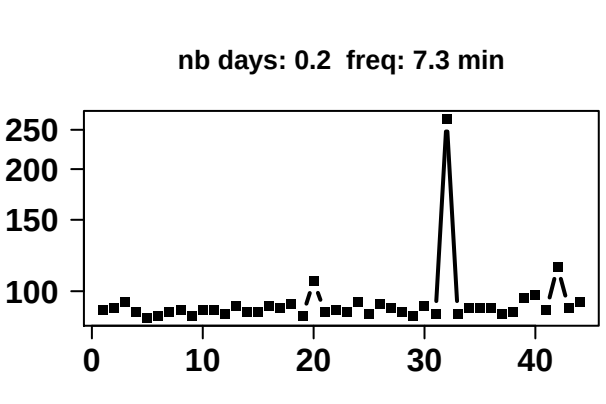

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

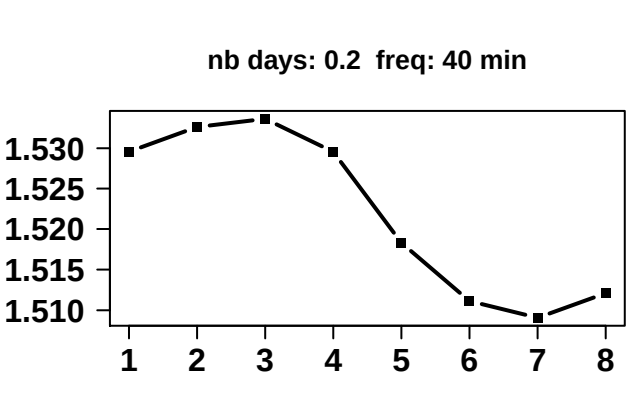

2014−11−08 00:30:19 2014−11−08 05:50:21
460
440
420
400
380
360
340
0
10
20
30
40
50
60
Pressure in

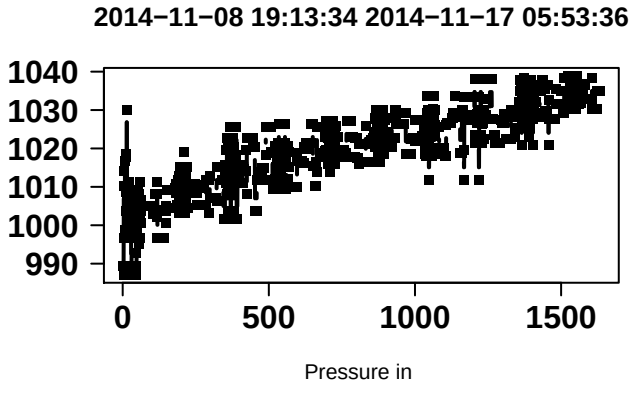

black 0.2 red 0.79
Seawater potential density anomaly
Seawater density − 1000
26.95
26.90
26.85
26.80
26.75
29.0
28.6
28.2
1
2
3
4
5
6
7
8

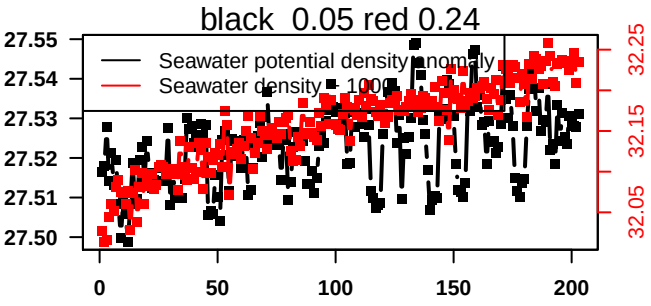

lovbio006b_077_03_06.txt
66
65
64
63
62
61
0
10
20
30
40
CDOM, [CN] / Points @ x s

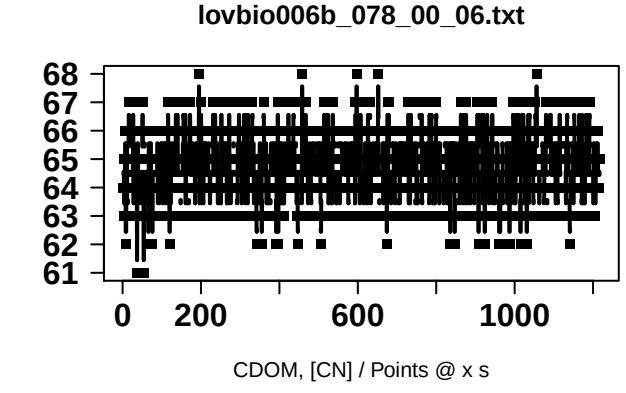

55
54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

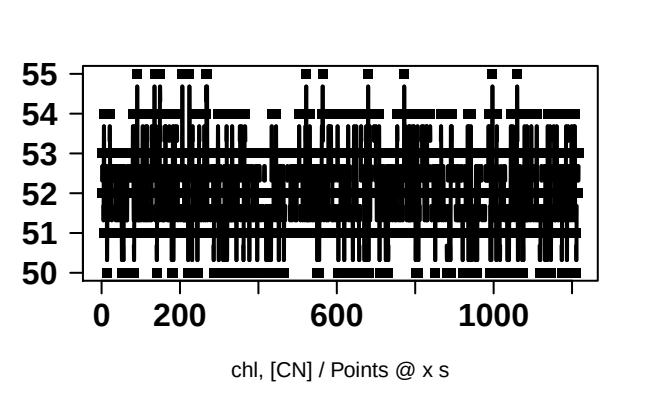

nb days: 0.2 freq: 7.3 min
250
200
150
100
0
10
20
30
40
beta, [CN] / Points @ x s

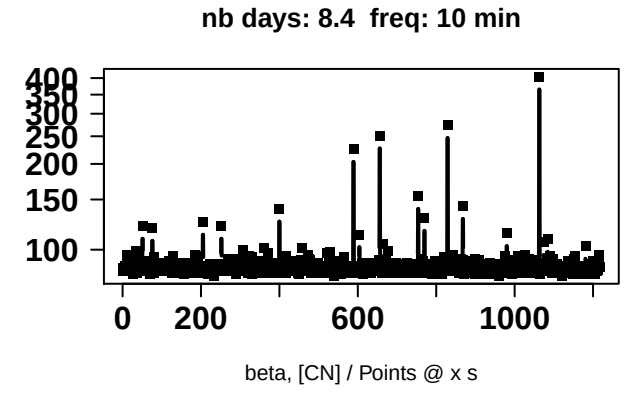

nb days: 0.2 freq: 40 min
1.530
1.525
1.520
1.515
1.510
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

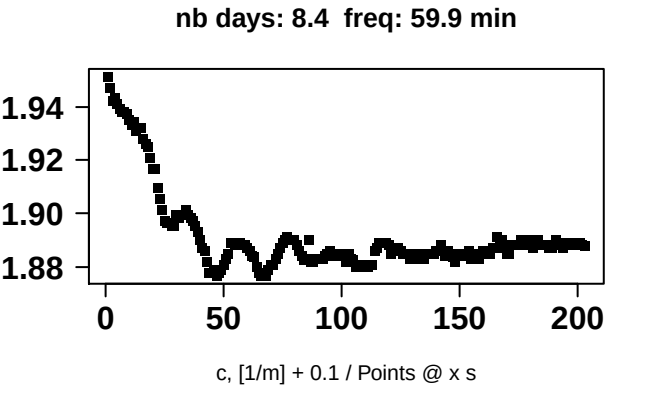

2014−11−08 19:13:34 2014−11−17 05:53:36
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

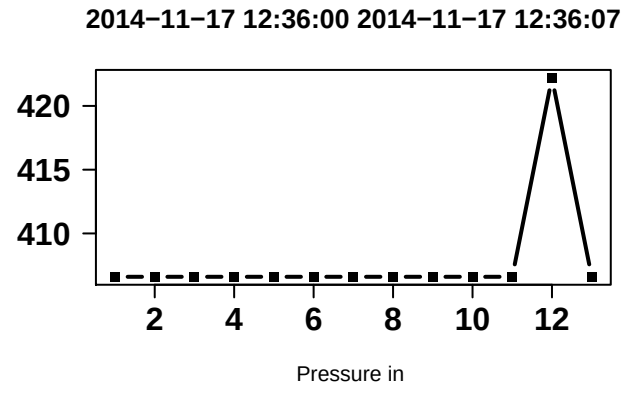

black 0.05 red 0.24
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
27.50
32.25
32.15
32.05
0
50
100
150
200

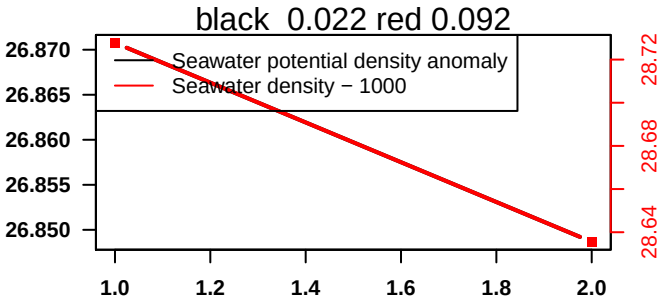

lovbio006b_078_00_06.txt
68
67
66
65
64
63
62
61
0
200
600
1000
CDOM, [CN] / Points @ x s

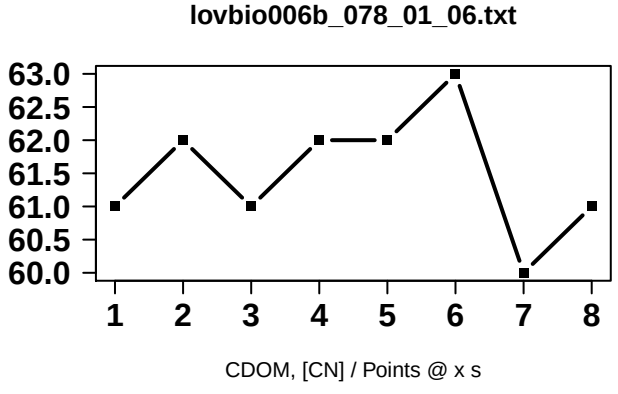

55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

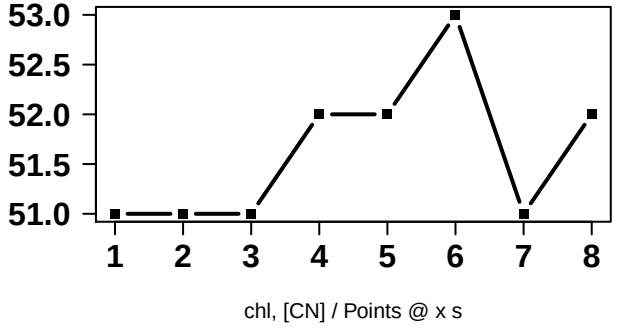

nb days: 8.4 freq: 10 min
400
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

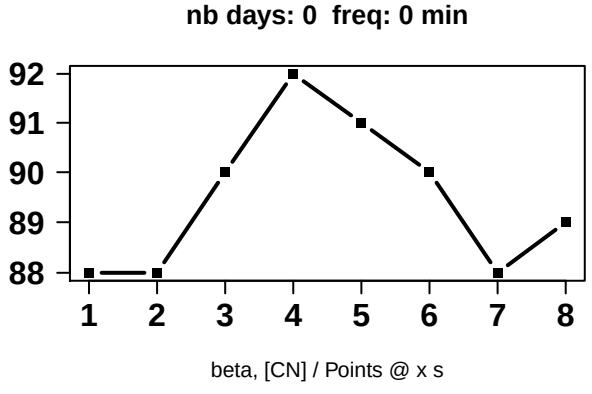

nb days: 8.4 freq: 59.9 min
1.94
1.92
1.90
1.88
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

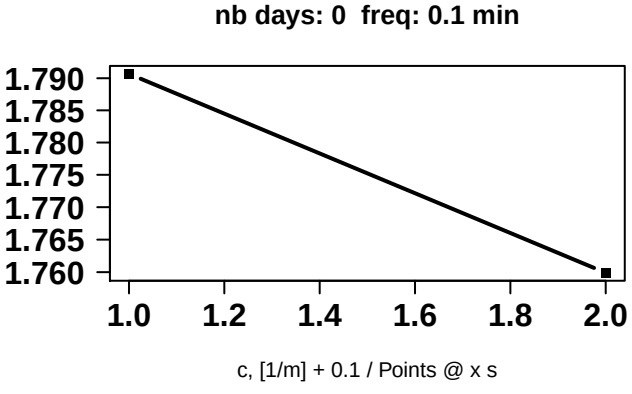

2014−11−17 12:36:00 2014−11−17 12:36:07
420
415
410
2
4
6
8
10
12
Pressure in

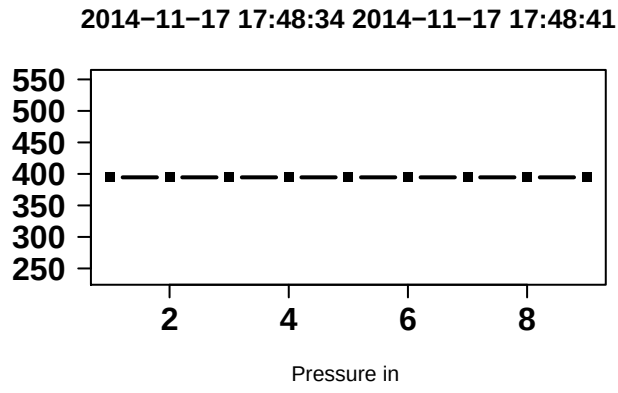

black 0.022 red 0.092
Seawater potential density anomaly
Seawater density − 1000
26.870
26.865
26.860
26.855
26.850
28.72
28.68
28.64
1.0
1.2
1.4
1.6
1.8
2.0

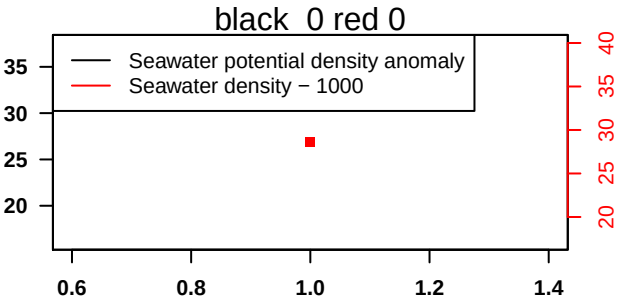

lovbio006b_078_01_06.txt
63.0
62.5
62.0
61.5
61.0
60.5
60.0
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

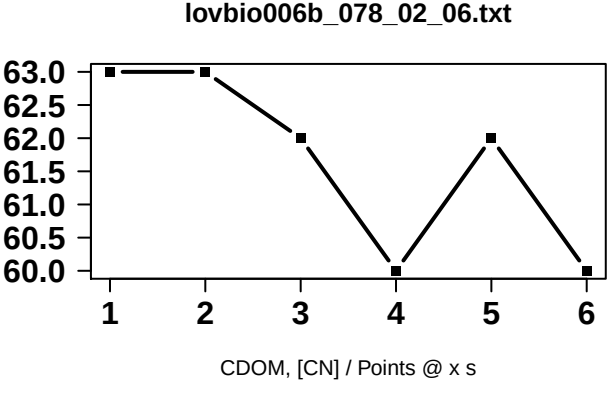

53.0
52.5
52.0
51.5
51.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

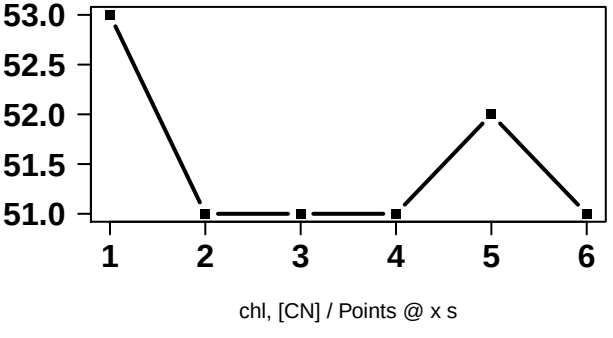

nb days: 0 freq: 0 min
92
91
90
89
88
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

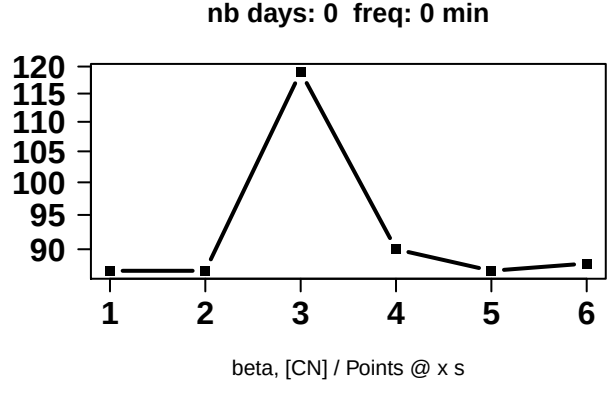

nb days: 0 freq: 0.1 min
1.790
1.785
1.780
1.775
1.770
1.765
1.760
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

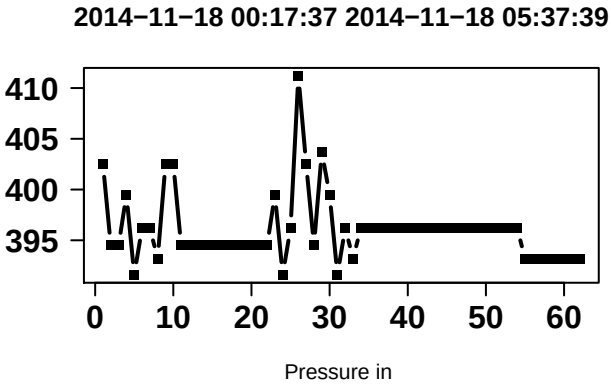

2014−11−17 17:48:34 2014−11−17 17:48:41
550
500
450
400
350
300
250
2
4
6
8
Pressure in

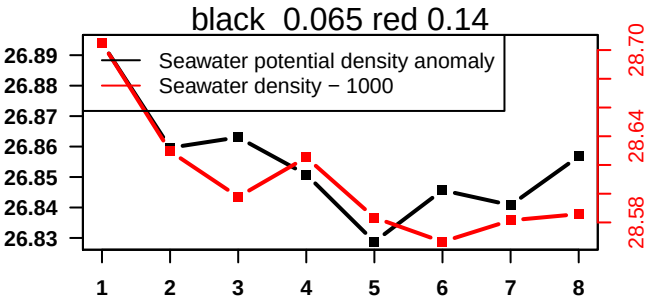

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

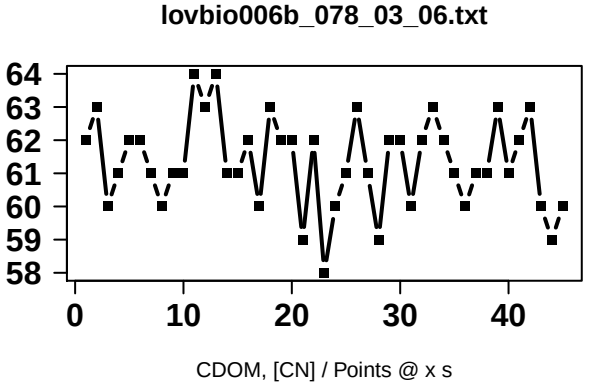

lovbio006b_078_02_06.txt
63.0
62.5
62.0
61.5
61.0
60.5
60.0
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

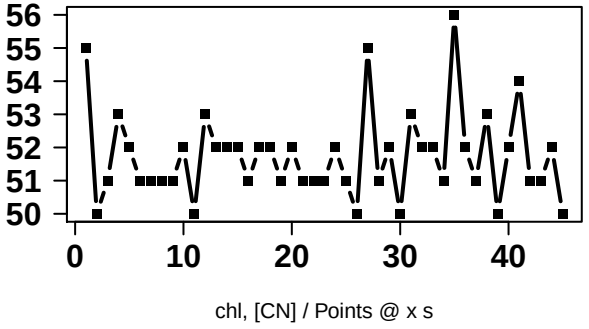

53.0
52.5
52.0
51.5
51.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

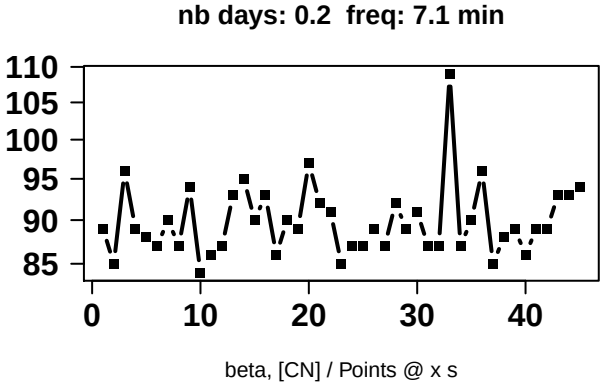

nb days: 0 freq: 0 min
120
115
110
105
100
95
90
1
2
3
4
5
6
beta, [CN] / Points @ x s

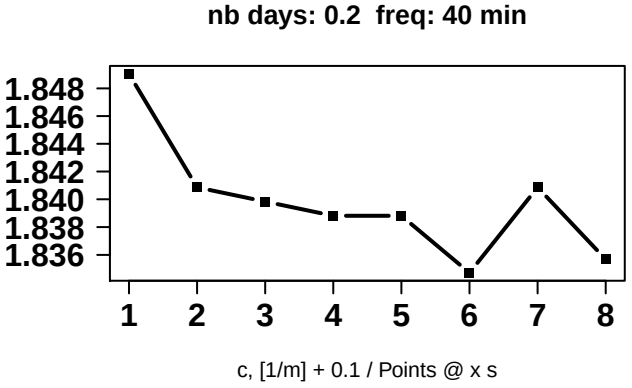

2014−11−18 00:17:37 2014−11−18 05:37:39
410
405
400
395
0
10
20
30
40
50
60
Pressure in

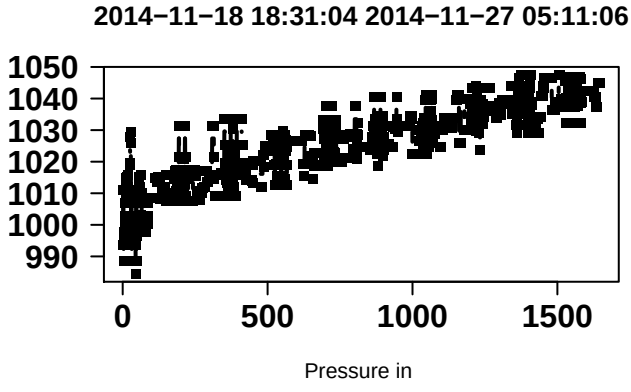

black 0.065 red 0.14
Seawater potential density anomaly
Seawater density − 1000
26.89
26.88
26.87
26.86
26.85
26.84
26.83
28.70
28.64
28.58
1
2
3
4
5
6
7
8

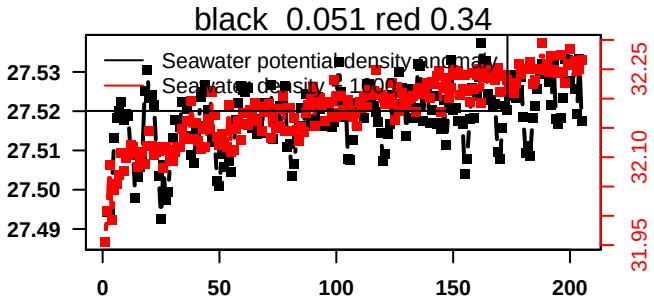

lovbio006b_078_03_06.txt
64
63
62
61
60
59
58
0
10
20
30
40
CDOM, [CN] / Points @ x s

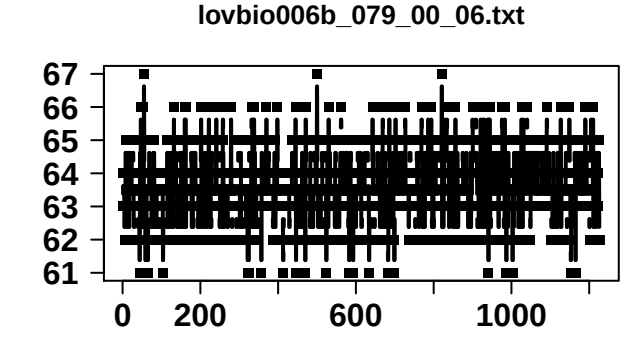

56
55
54
53
52
51
50
0
10
20
30
40
chl, [CN] / Points @ x s

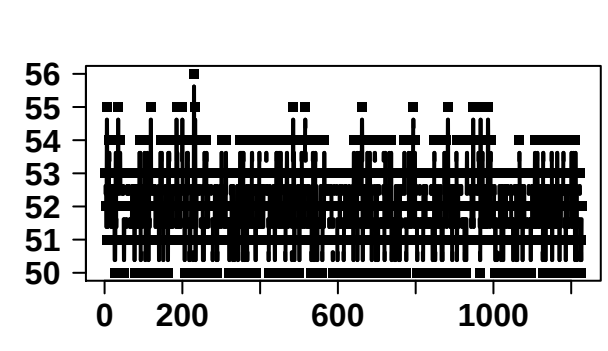

nb days: 0.2 freq: 7.1 min
110
105
100
95
90
85
0
10
20
30
40
beta, [CN] / Points @ x s

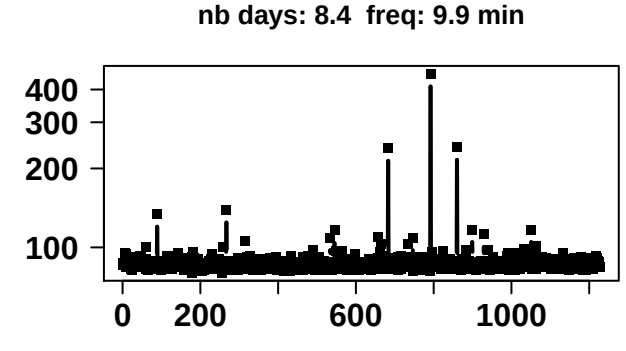

nb days: 0.2 freq: 40 min
1.848
1.846
1.844
1.842
1.840
1.838
1.836
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

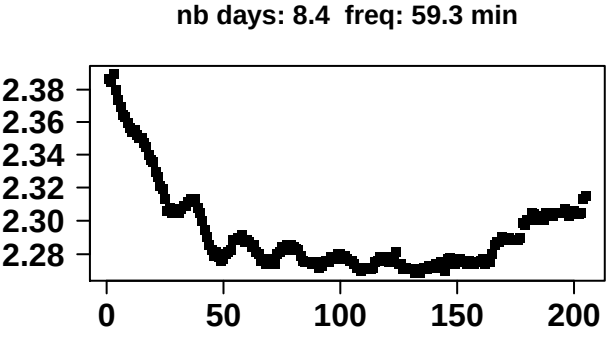

2014−11−18 18:31:04 2014−11−27 05:11:06
1050
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

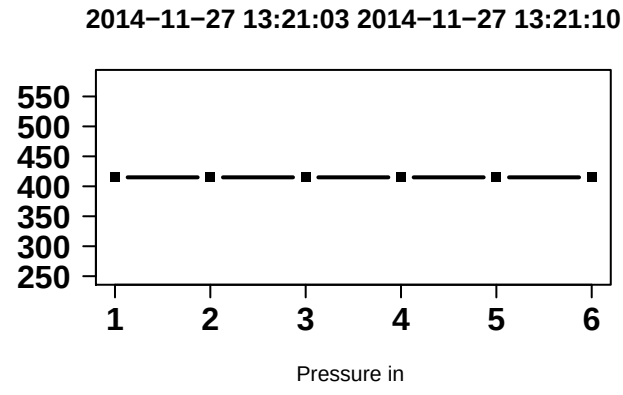

black 0.051 red 0.34
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
0
50
100
150
200
32.25
32.10
31.95

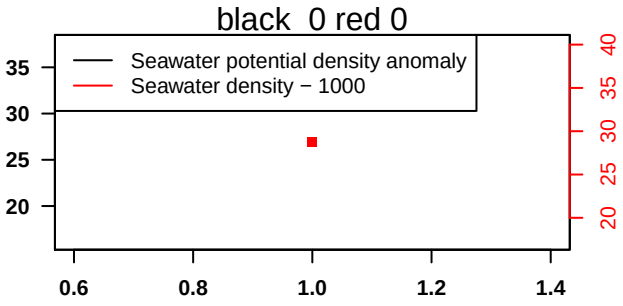

lovbio006b_079_00_06.txt
67
66
65
64
63
62
61
0
200
600
1000
CDOM, [CN] / Points @ x s

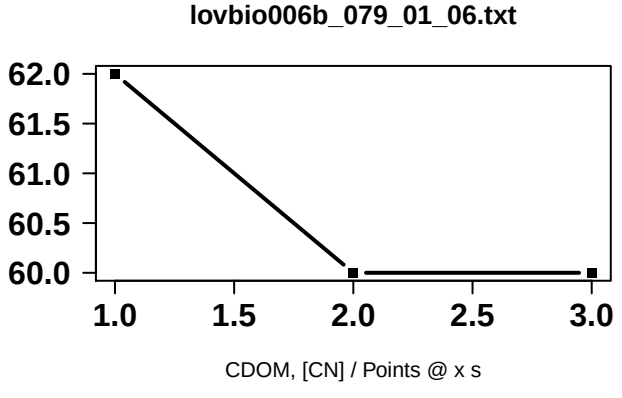

56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

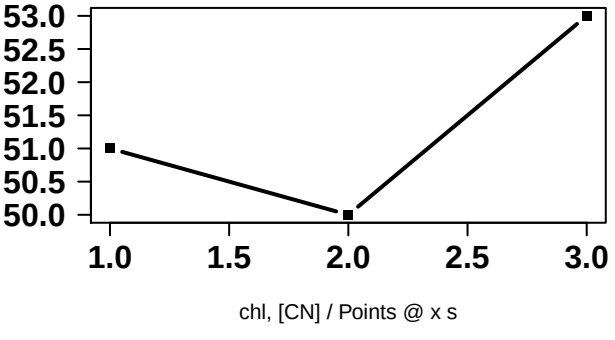

nb days: 8.4 freq: 9.9 min
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

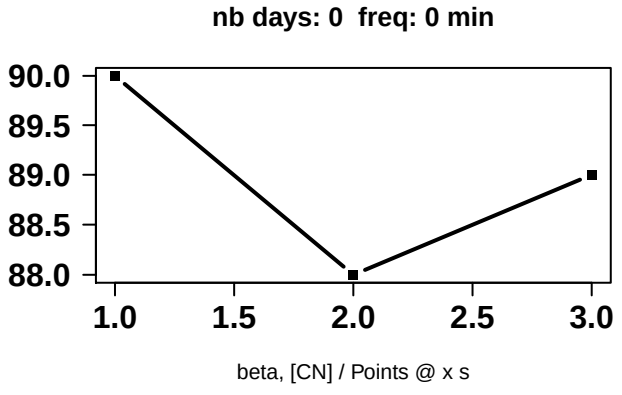

nb days: 8.4 freq: 59.3 min
2.38
2.36
2.34
2.32
2.30
2.28
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

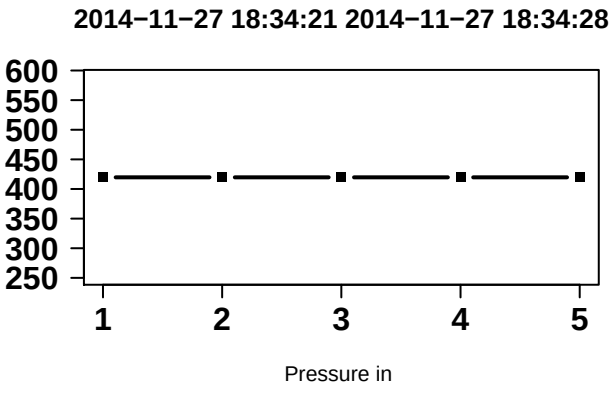

2014−11−27 13:21:03 2014−11−27 13:21:10
550
500
450
400
350
300
250
1
2
3
4
5
6
Pressure in

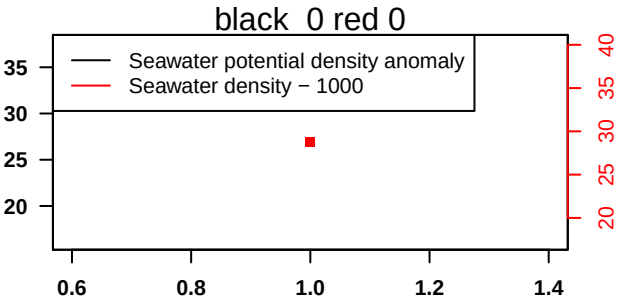

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

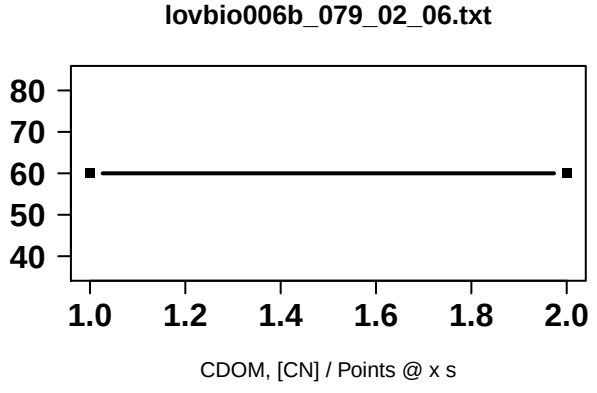

lovbio006b_079_01_06.txt
62.0
61.5
61.0
60.5
60.0
1.0
1.5
2.0
2.5
3.0
CDOM, [CN] / Points @ x s

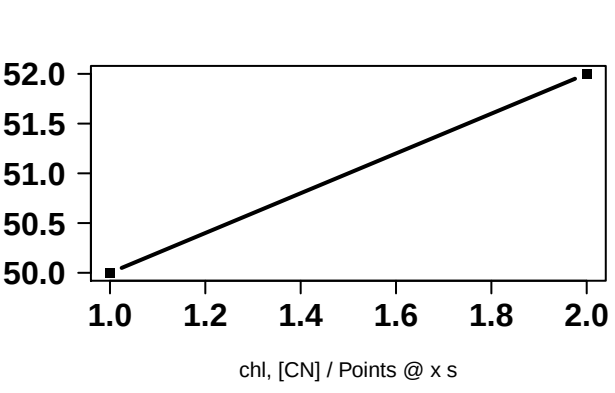

53.0
52.5
52.0
51.5
51.0
50.5
50.0
1.0
1.5
2.0
2.5
3.0
chl, [CN] / Points @ x s

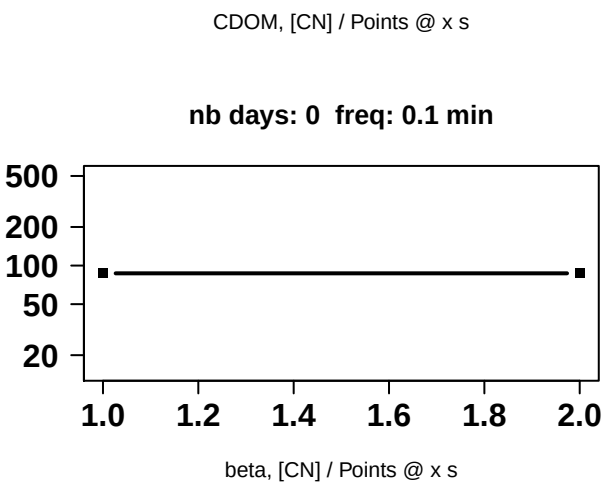

nb days: 0 freq: 0 min
90.0
89.5
89.0
88.5
88.0
1.0
1.5
2.0
2.5
3.0
beta, [CN] / Points @ x s

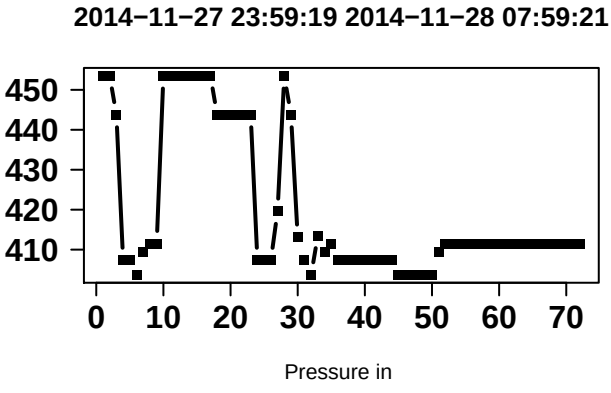

2014−11−27 18:34:21 2014−11−27 18:34:28
600
550
500
450
400
350
300
250
1
2
3
4
5
Pressure in

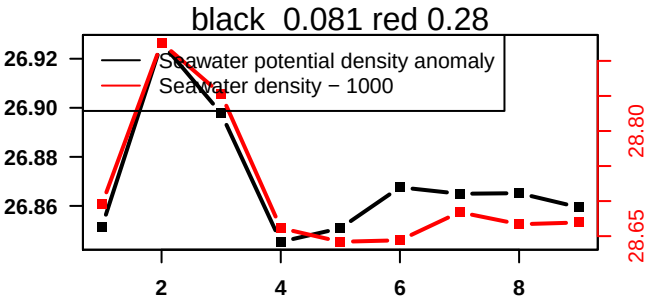

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

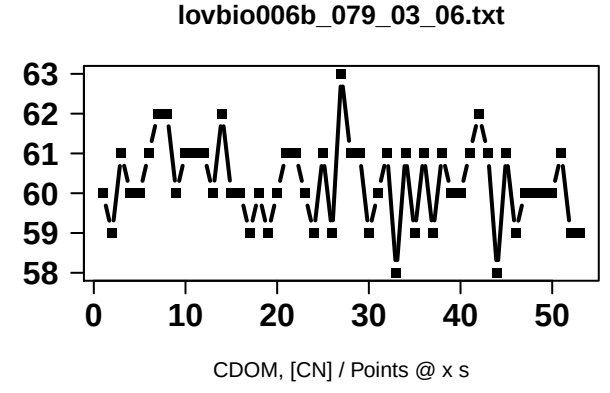

lovbio006b_079_02_06.txt
80
70
60
50
40
1.0
1.2
1.4
1.6
1.8
2.0
CDOM, [CN] / Points @ x s

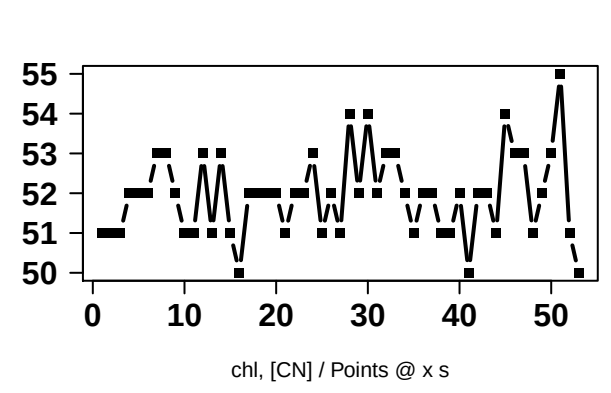

52.0
51.5
51.0
50.5
50.0
1.0
1.2
1.4
1.6
1.8
2.0
chl, [CN] / Points @ x s

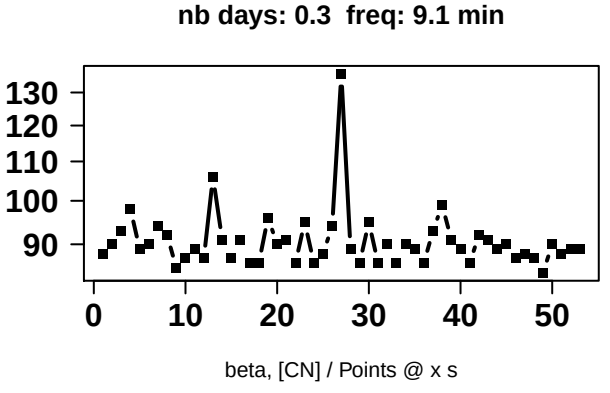

nb days: 0 freq: 0.1 min
500
200
100
50
20
1.0
1.2
1.4
1.6
1.8
2.0
beta, [CN] / Points @ x s

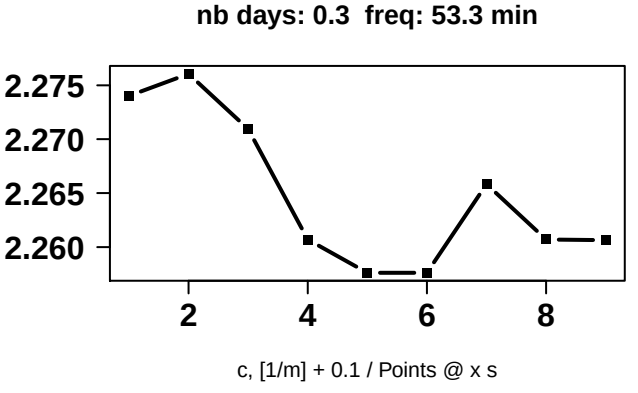

2014−11−27 23:59:19 2014−11−28 07:59:21
450
440
430
420
410
0
10
20
30
40
50
60
70
Pressure in

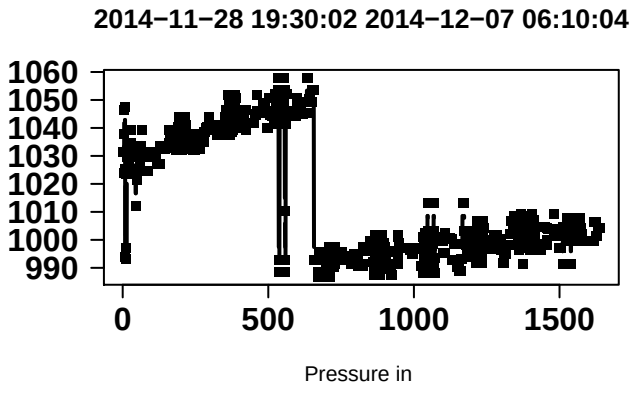

black 0.081 red 0.28
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
28.80
28.65
2
4
6
8

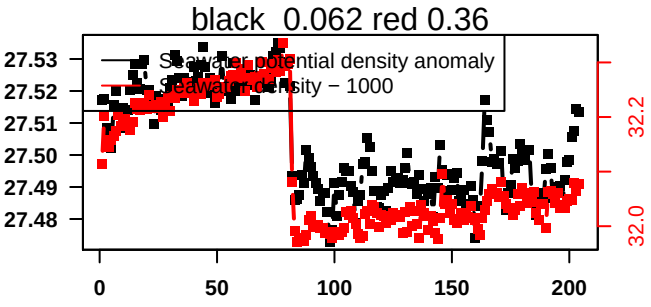

lovbio006b_079_03_06.txt
63
62
61
60
59
58
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

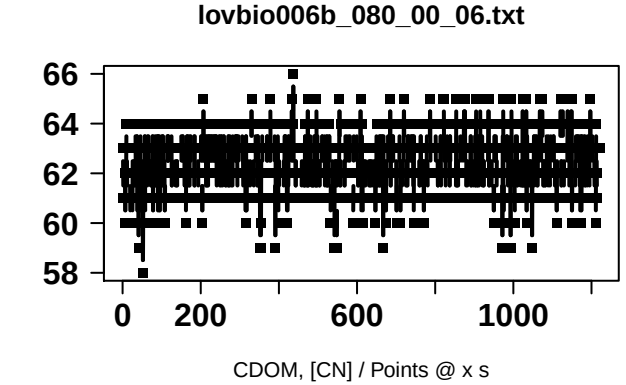

55
54
53
52
51
50
0
10
20
30
40
50
chl, [CN] / Points @ x s

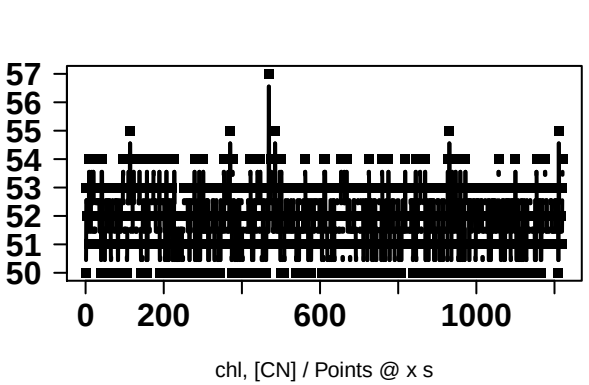

nb days: 0.3 freq: 9.1 min
130
120
110
100
90
0
10
20
30
40
50
beta, [CN] / Points @ x s

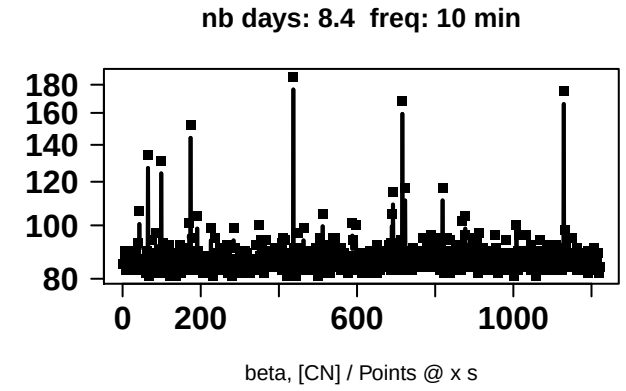

nb days: 0.3 freq: 53.3 min
2.275
2.270
2.265
2.260
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

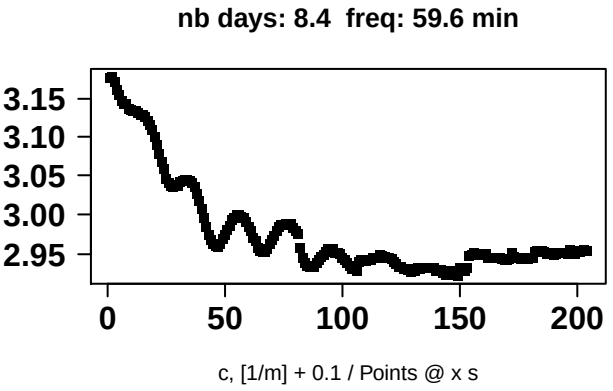

2014−11−28 19:30:02 2014−12−07 06:10:04
1060
1050
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

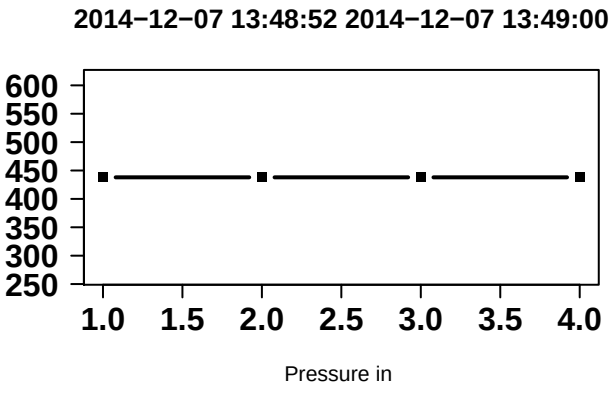

black 0.062 red 0.36
Seawater potential density anomaly
Seawater density − 1000
27.53
27.52
27.51
27.50
27.49
27.48
32.2
32.0
0
50
100
150
200

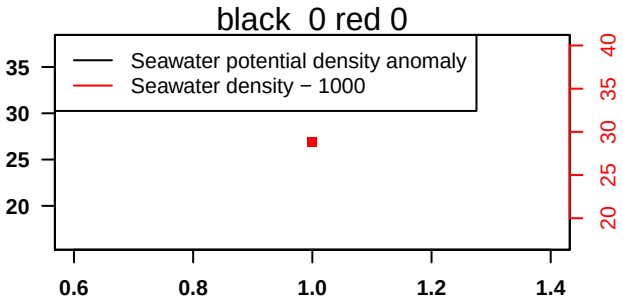

lovbio006b_080_00_06.txt
66
64
62
60
58
0
200
600
1000
CDOM, [CN] / Points @ x s

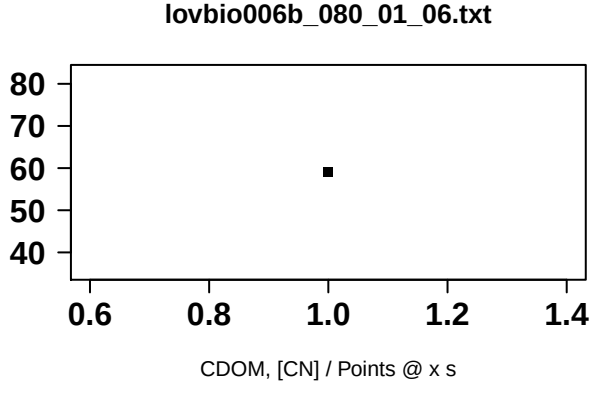

57
56
55
54
53
52
51
50
0
200
600
1000
chl, [CN] / Points @ x s

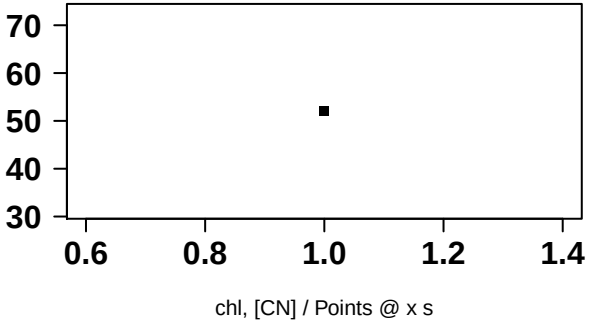

nb days: 8.4 freq: 10 min
180
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

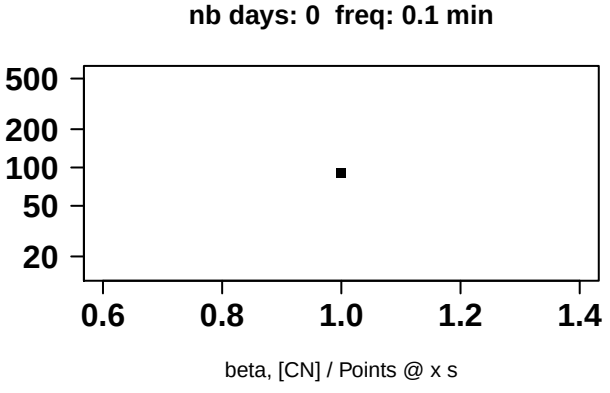

nb days: 8.4 freq: 59.6 min
3.15
3.10
3.05
3.00
2.95
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

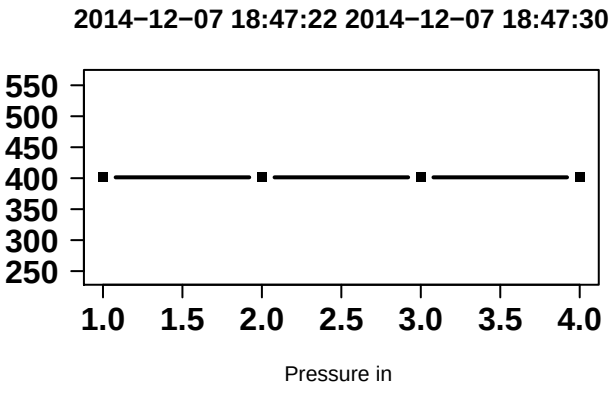

2014−12−07 13:48:52 2014−12−07 13:49:00
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

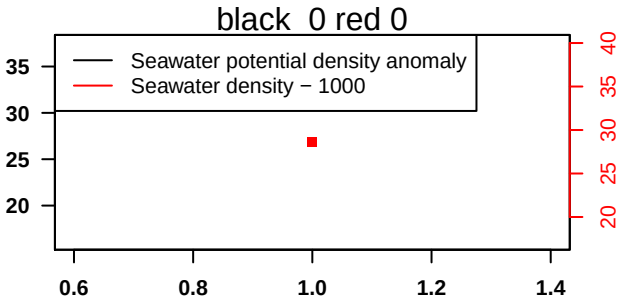

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

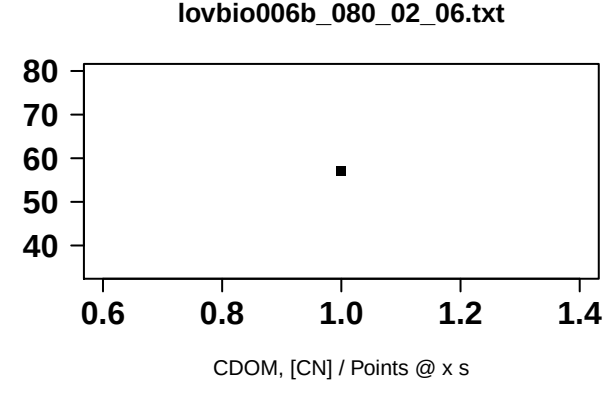

lovbio006b_080_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

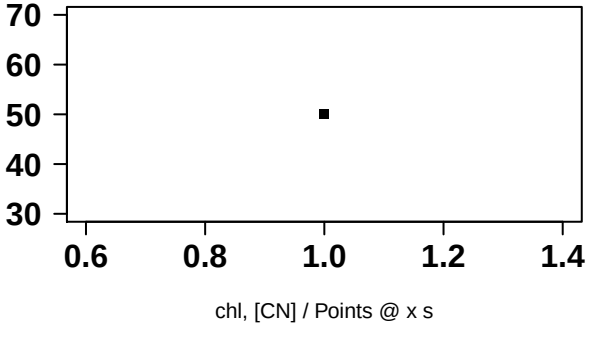

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

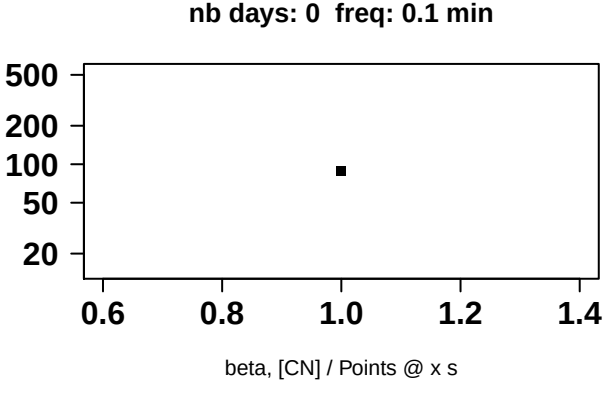

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

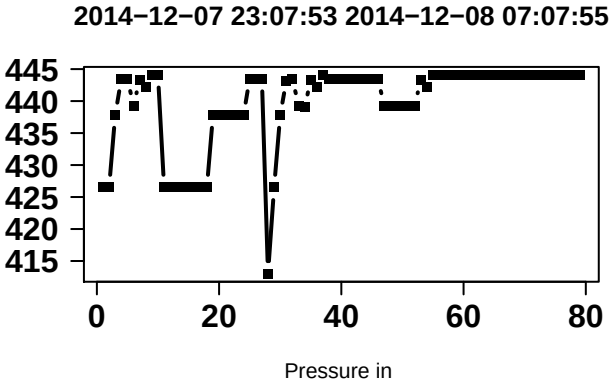

2014−12−07 18:47:22 2014−12−07 18:47:30
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

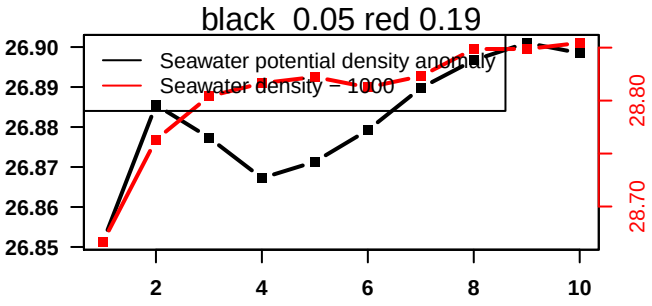

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

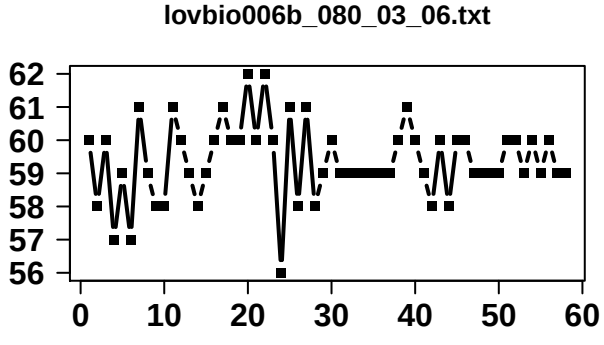

lovbio006b_080_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

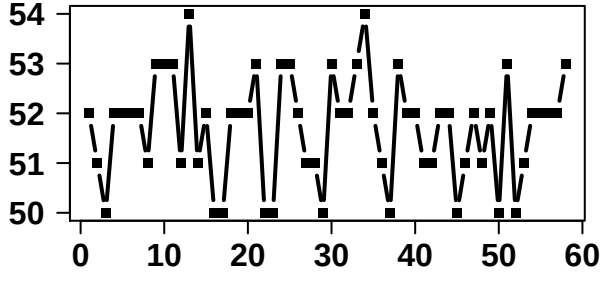

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

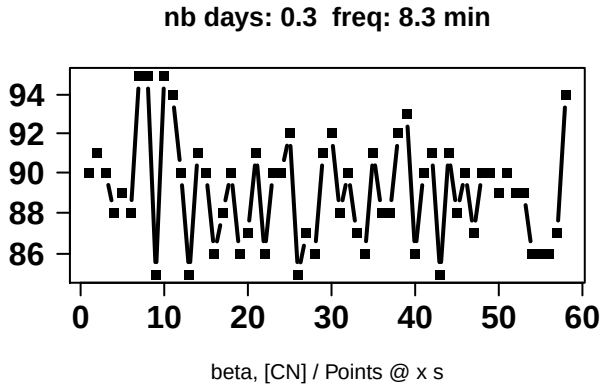

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

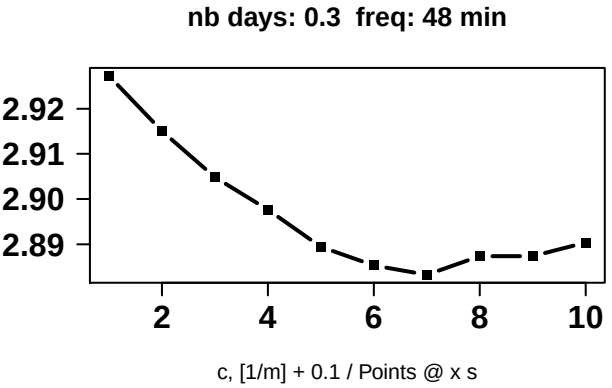

2014−12−07 23:07:53 2014−12−08 07:07:55
445
440
435
430
425
420
415
0
20
40
60
80
Pressure in

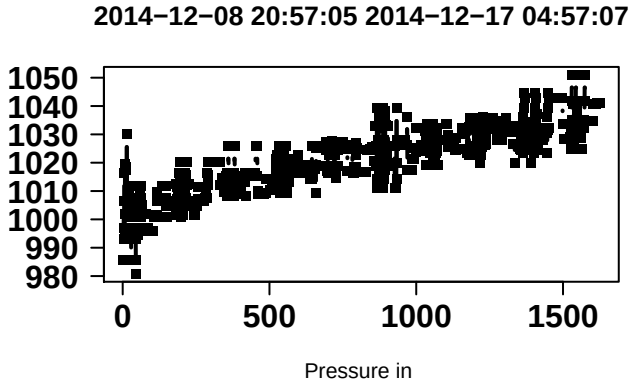

black 0.05 red 0.19
Seawater potential density anomaly
Seawater density − 1000
26.90
26.89
26.88
26.87
26.86
26.85
28.80
28.70
2
4
6
8
10

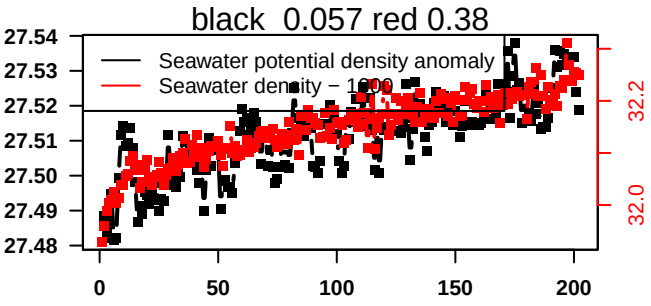

lovbio006b_080_03_06.txt
62
61
60
59
58
57
56
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

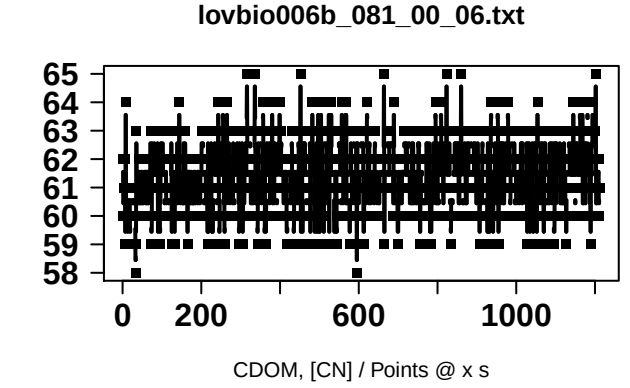

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

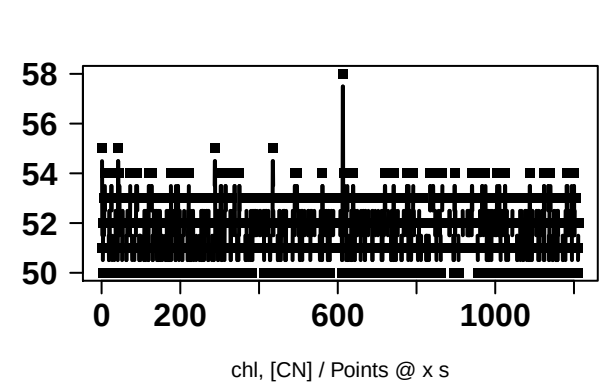

nb days: 0.3 freq: 8.3 min
94
92
90
88
86
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

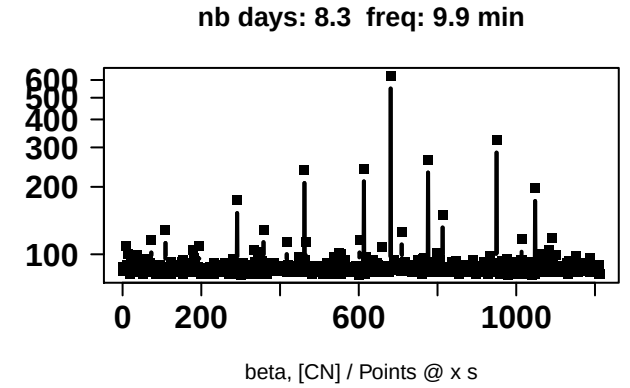

nb days: 0.3 freq: 48 min
2.92
2.91
2.90
2.89
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

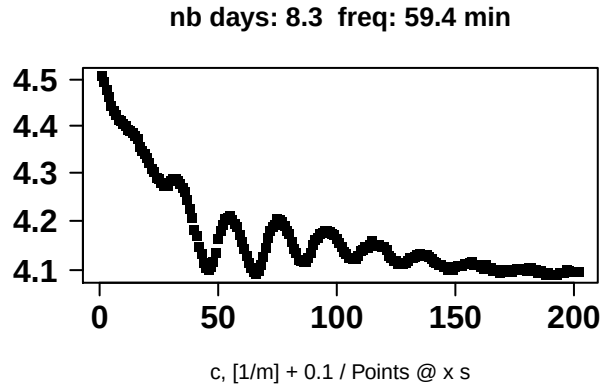

2014−12−08 20:57:05 2014−12−17 04:57:07
1050
1040
1030
1020
1010
1000
990
980
0
500
1000
1500
Pressure in

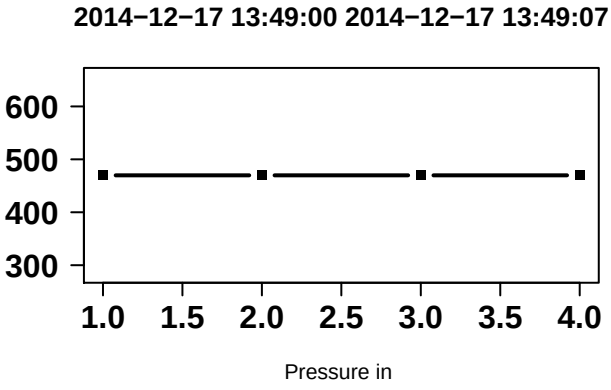

black 0.057 red 0.38
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
27.49
27.48
32.2
32.0
0
50
100
150
200

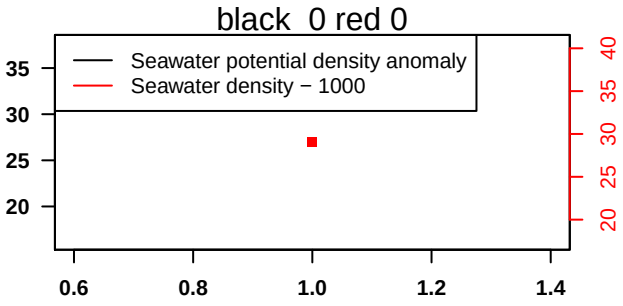

lovbio006b_081_00_06.txt
65
64
63
62
61
60
59
58
0
200
600
1000
CDOM, [CN] / Points @ x s

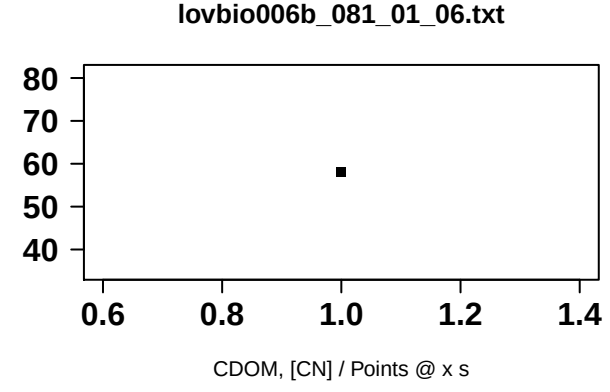

58
56
54
52
50
0
200
600
1000
chl, [CN] / Points @ x s

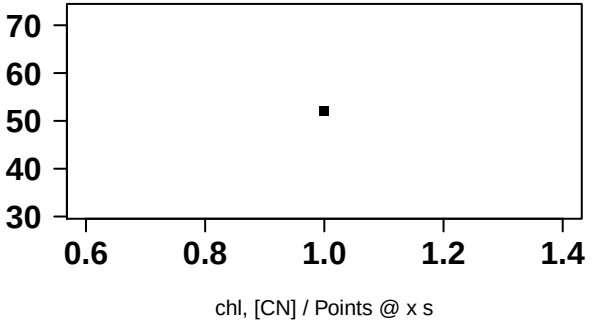

nb days: 8.3 freq: 9.9 min
600
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

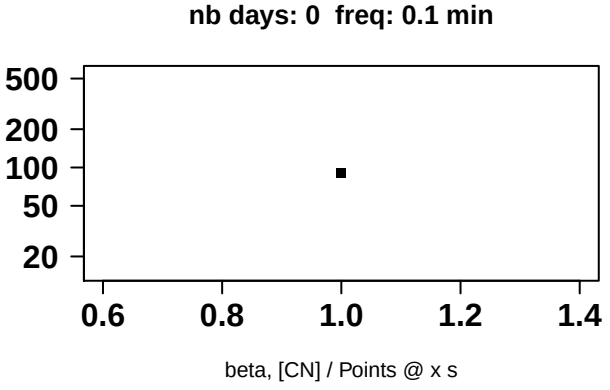

nb days: 8.3 freq: 59.4 min
4.5
4.4
4.3
4.2
4.1
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

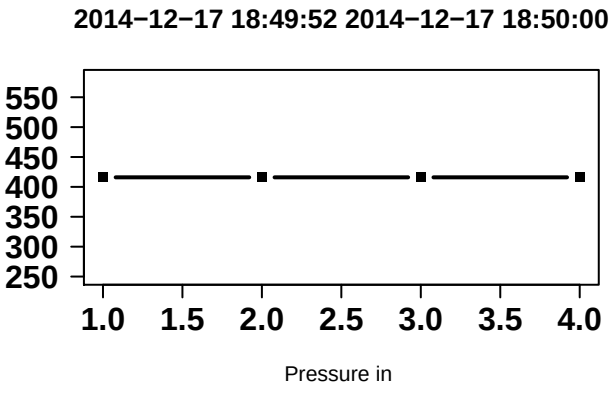

2014−12−17 13:49:00 2014−12−17 13:49:07
600
500
400
300
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

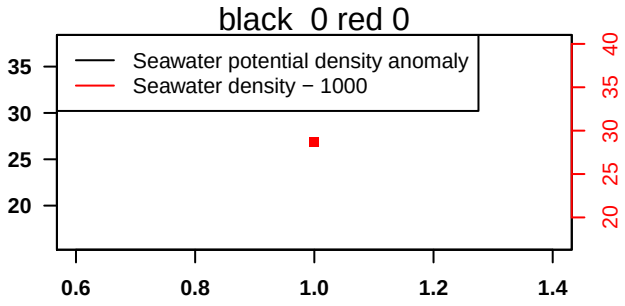

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

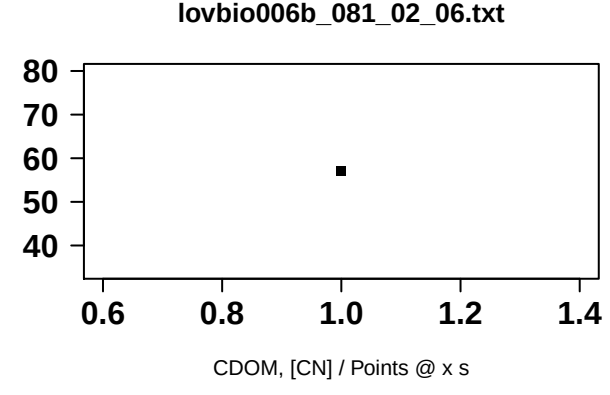

lovbio006b_081_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

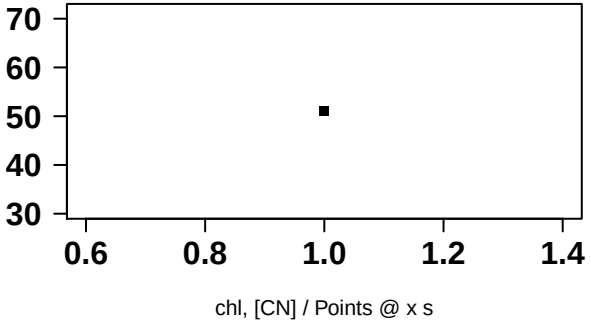

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

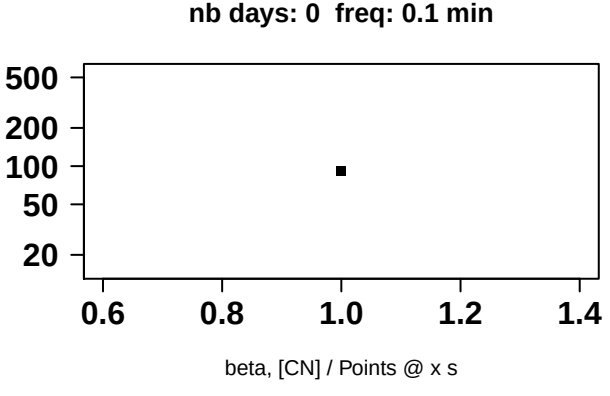

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

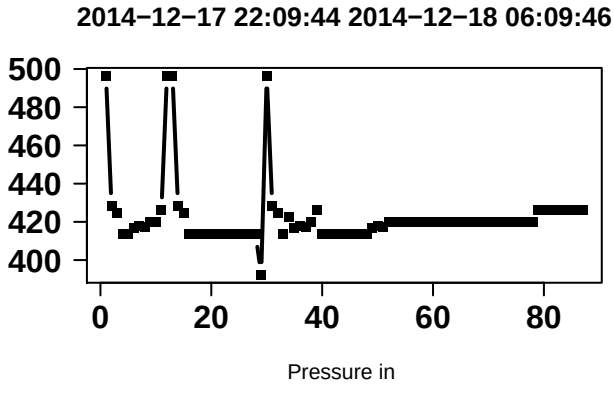

2014−12−17 18:49:52 2014−12−17 18:50:00
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

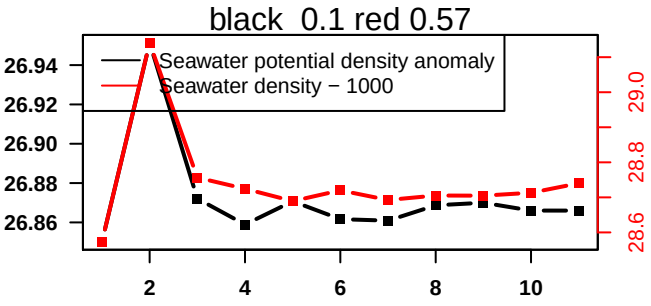

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

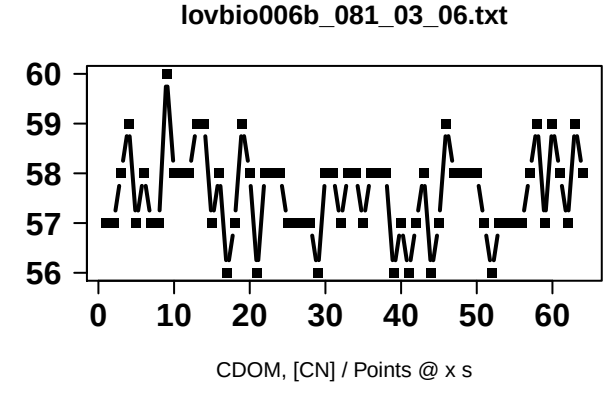

lovbio006b_081_02_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

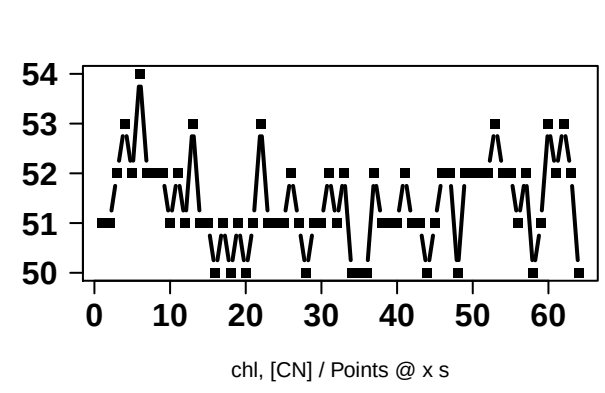

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

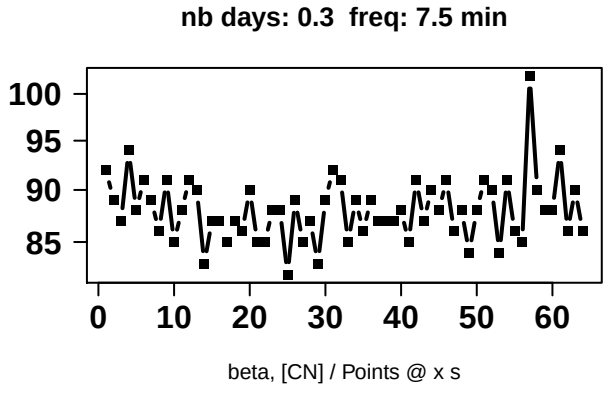

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

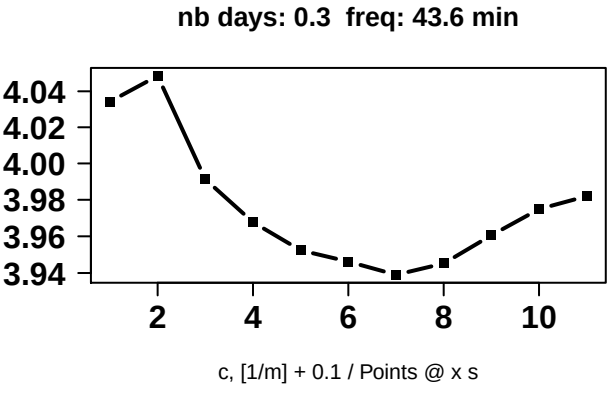

2014−12−17 22:09:44 2014−12−18 06:09:46
500
480
460
440
420
400
0
20
40
60
80
Pressure in

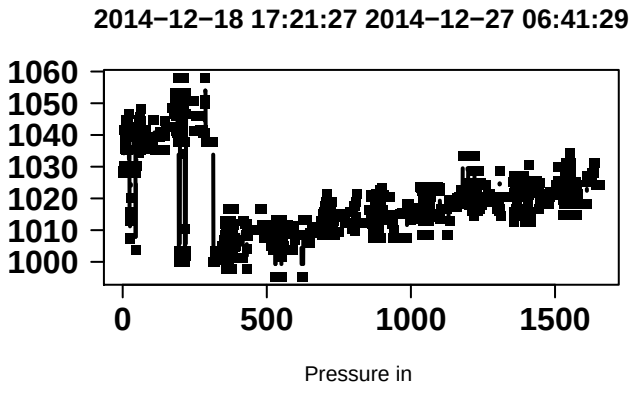

black 0.1 red 0.57
Seawater potential density anomaly
Seawater density − 1000
26.94
26.92
26.90
26.88
26.86
29.0
28.8
28.6
2
4
6
8
10

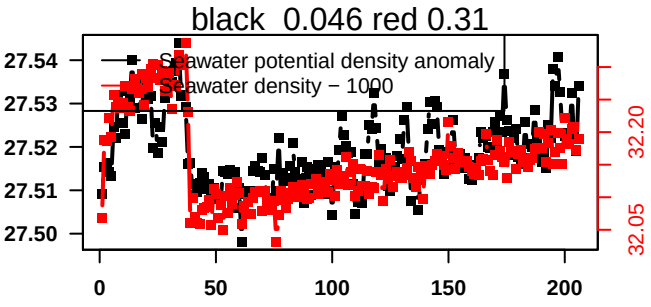

lovbio006b_081_03_06.txt
60
59
58
57
56
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

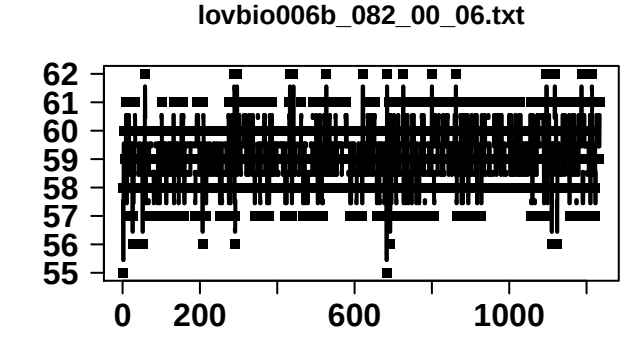

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

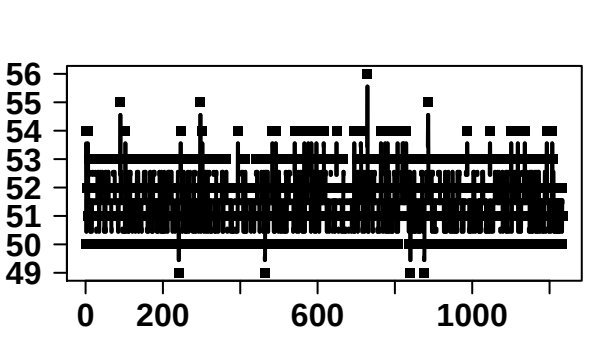

nb days: 0.3 freq: 7.5 min
100
95
90
85
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

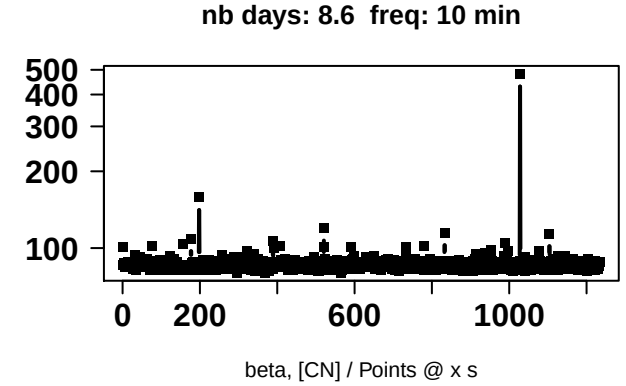

nb days: 0.3 freq: 43.6 min
4.04
4.02
4.00
3.98
3.96
3.94
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

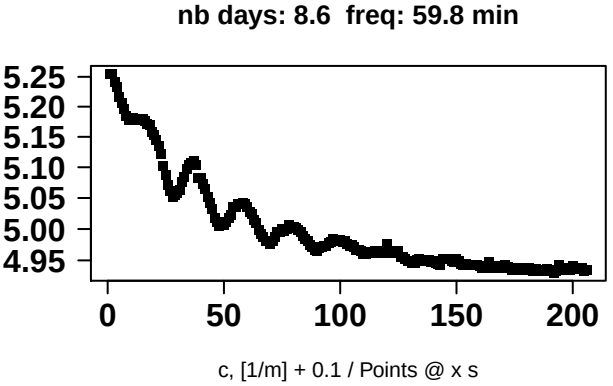

2014−12−18 17:21:27 2014−12−27 06:41:29
1060
1050
1040
1030
1020
1010
1000
0
500
1000
1500
Pressure in

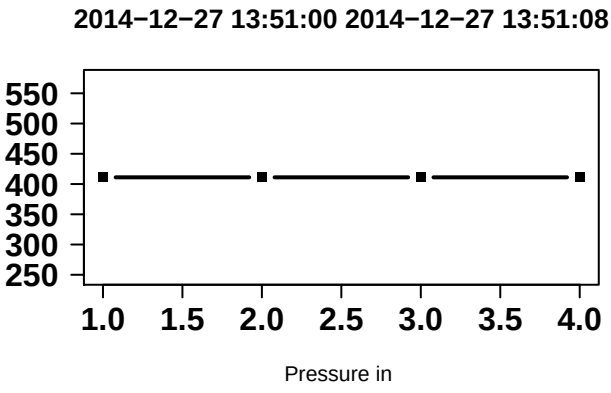

black 0.046 red 0.31
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.20
32.05
0
50
100
150
200

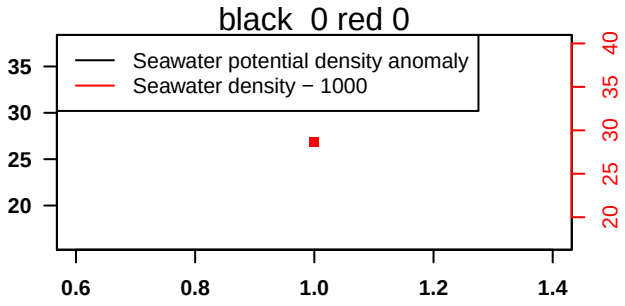

lovbio006b_082_00_06.txt
62
61
60
59
58
57
56
55
0
200
600
1000
CDOM, [CN] / Points @ x s

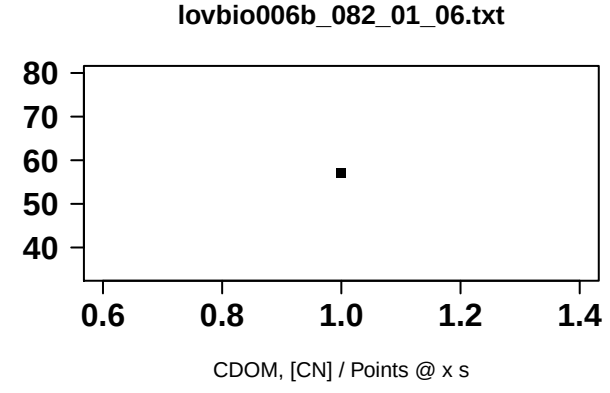

56
55
54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

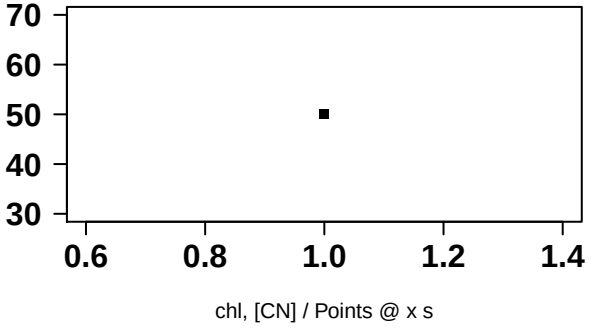

nb days: 8.6 freq: 10 min
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

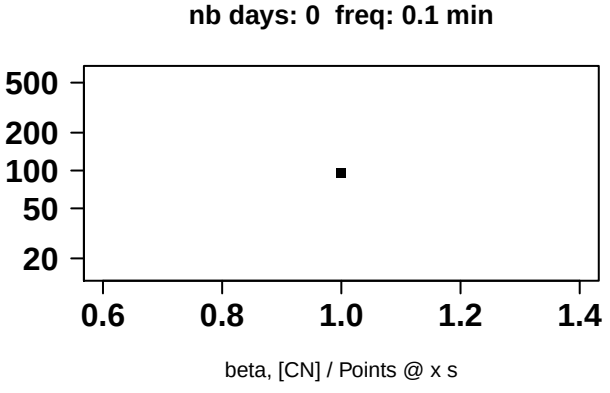

nb days: 8.6 freq: 59.8 min
5.25
5.20
5.15
5.10
5.05
5.00
4.95
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

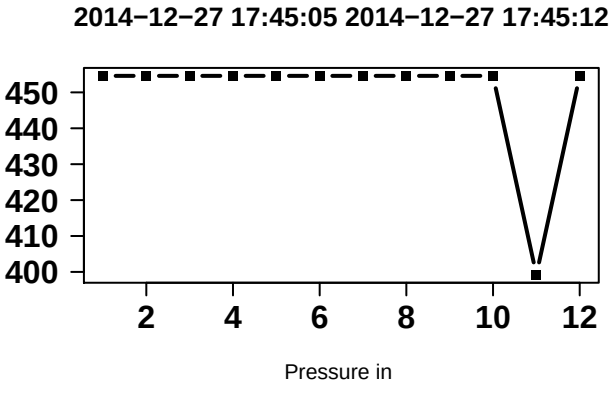

2014−12−27 13:51:00 2014−12−27 13:51:08
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

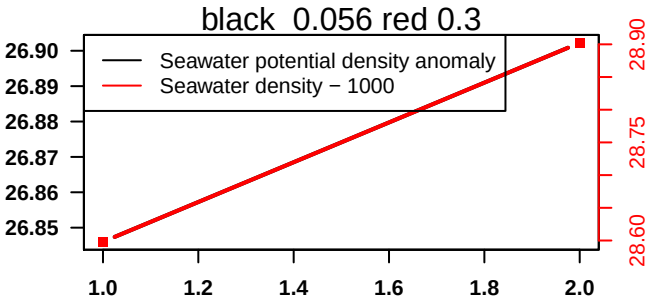

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

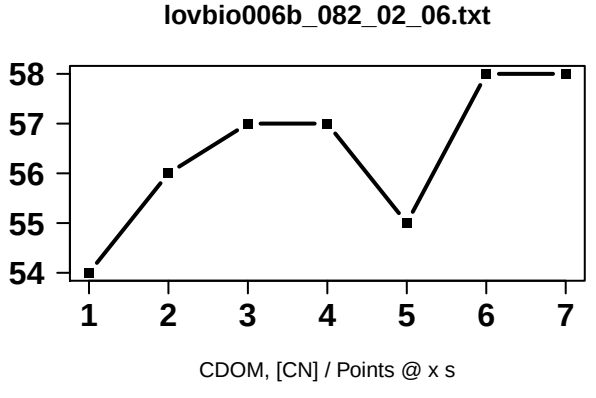

lovbio006b_082_01_06.txt
80
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

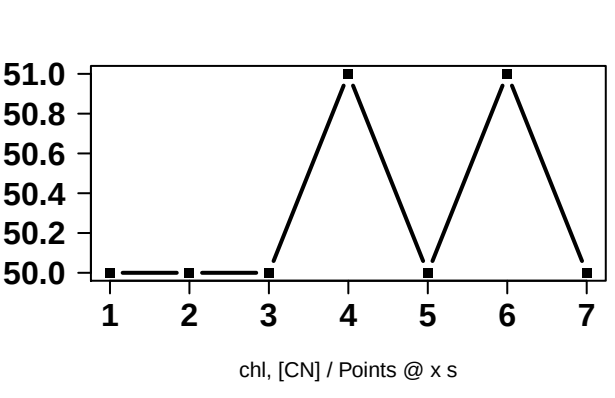

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

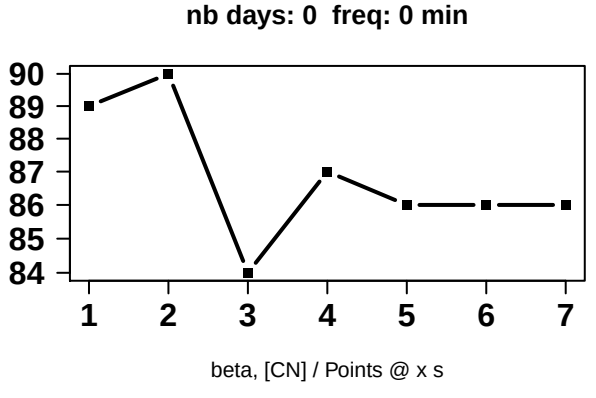

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

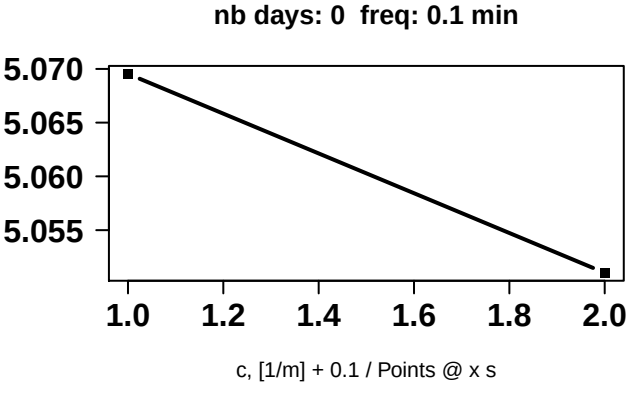

2014−12−27 17:45:05 2014−12−27 17:45:12
450
440
430
420
410
400
2
4
6
8
10
12
Pressure in

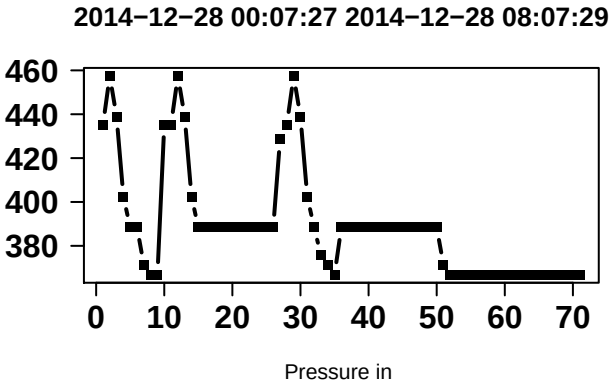

black 0.056 red 0.3
Seawater potential density anomaly
Seawater density − 1000
26.90
26.89
26.88
26.87
26.86
26.85
28.90
28.75
28.60
1.0
1.2
1.4
1.6
1.8
2.0

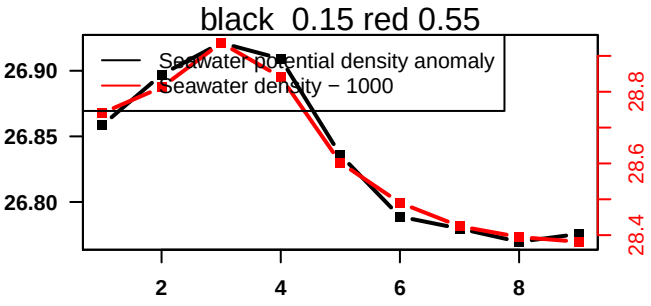

lovbio006b_082_02_06.txt
58
57
56
55
54
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

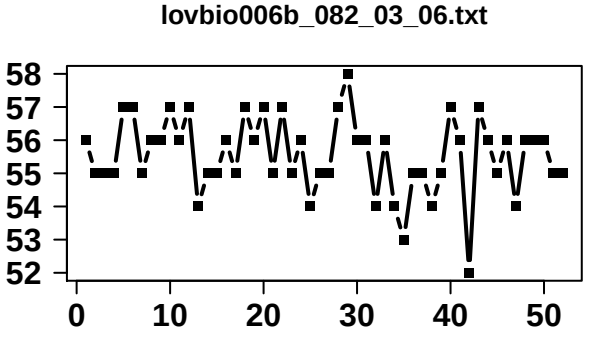

51.0
50.8
50.6
50.4
50.2
50.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

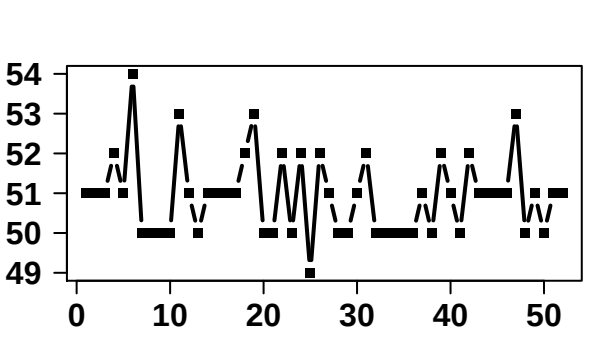

nb days: 0 freq: 0 min
90
89
88
87
86
85
84
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

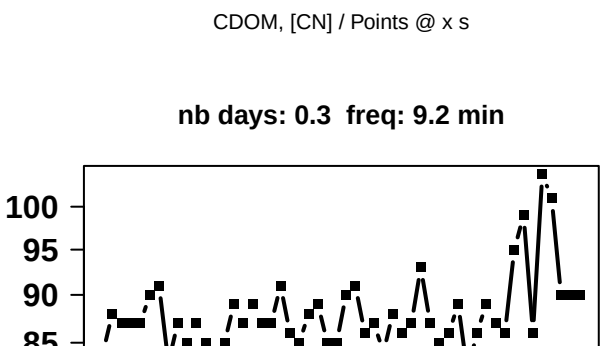

nb days: 0 freq: 0.1 min
5.070
5.065
5.060
5.055
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

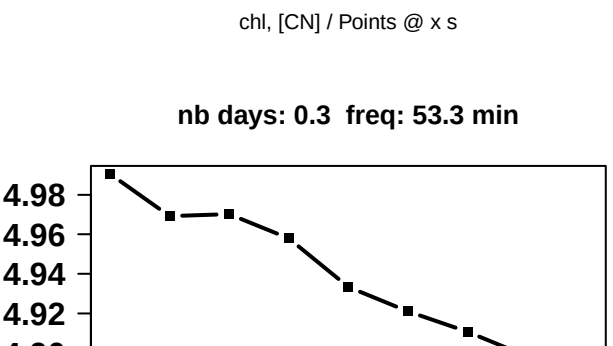

2014−12−28 00:07:27 2014−12−28 08:07:29
460
440
420
400
380
0
10
20
30
40
50
60
70
Pressure in

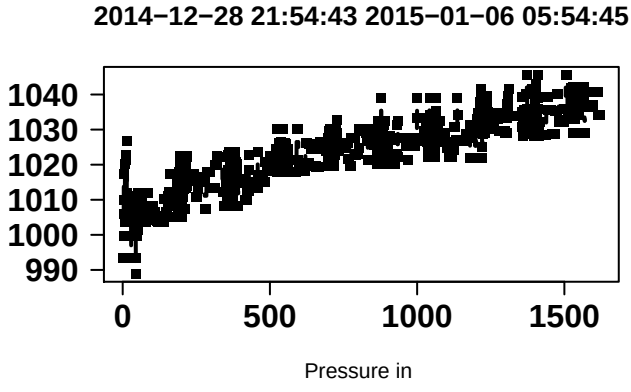

black 0.15 red 0.55
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
2
4
6
8
28.8
28.6
28.4

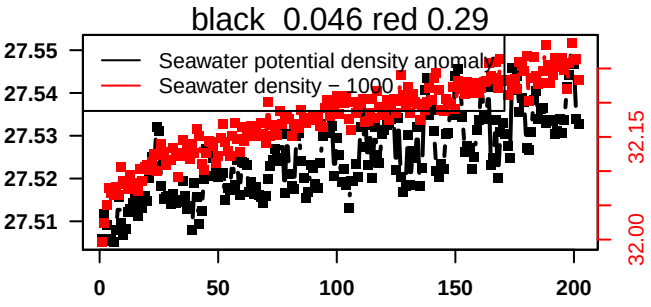

lovbio006b_082_03_06.txt
58
57
56
55
54
53
52
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

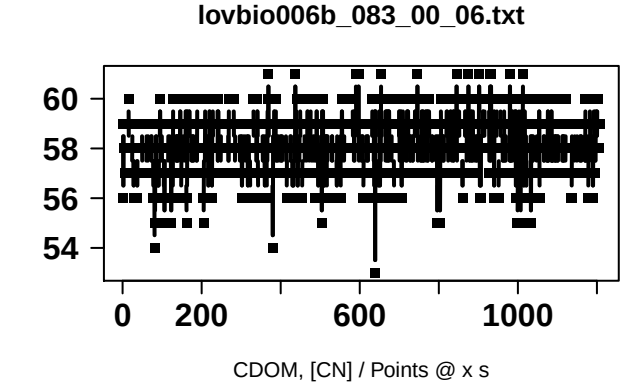

54
53
52
51
50
49
0
10
20
30
40
50
chl, [CN] / Points @ x s

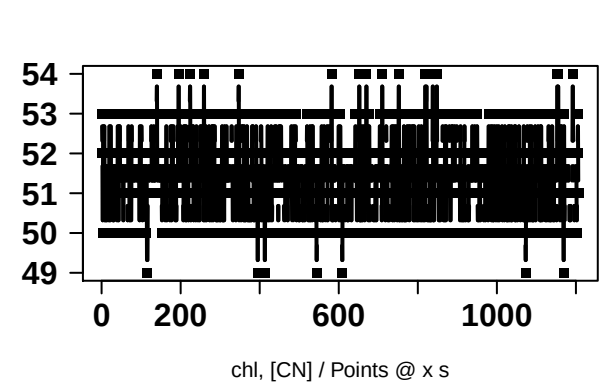

nb days: 0.3 freq: 9.2 min
100
95
90
85
0
10
20
30
40
50
beta, [CN] / Points @ x s

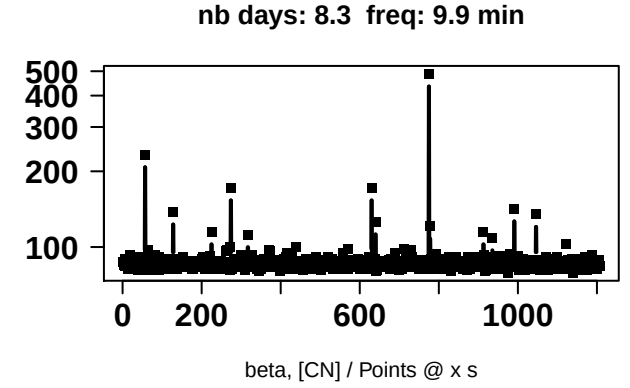

nb days: 0.3 freq: 53.3 min
4.98
4.96
4.94
4.92
4.90
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

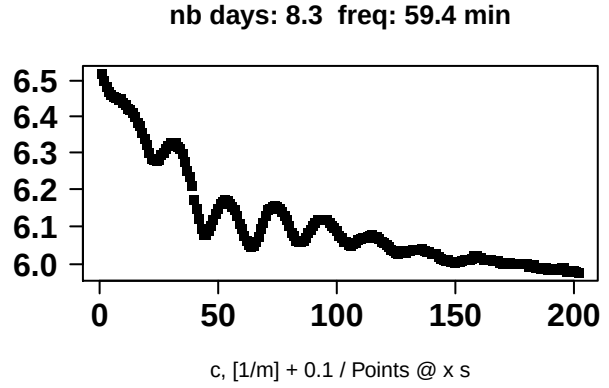

2014−12−28 21:54:43 2015−01−06 05:54:45
1040
1030
1020
1010
1000
990
0
500
1000
1500
Pressure in

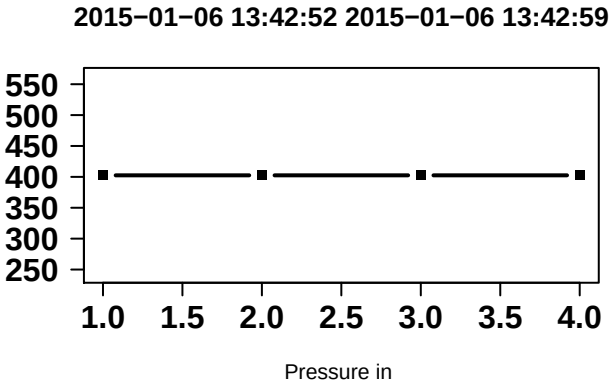

black 0.046 red 0.29
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
32.15
32.00
0
50
100
150
200

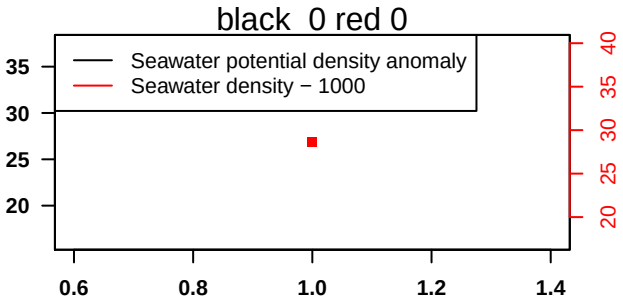

lovbio006b_083_00_06.txt
60
58
56
54
0
200
600
1000
CDOM, [CN] / Points @ x s

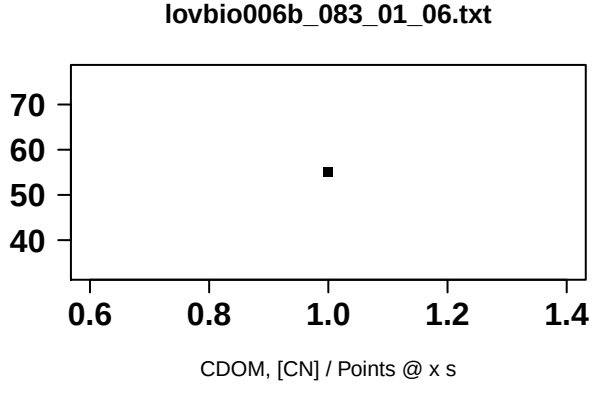

54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

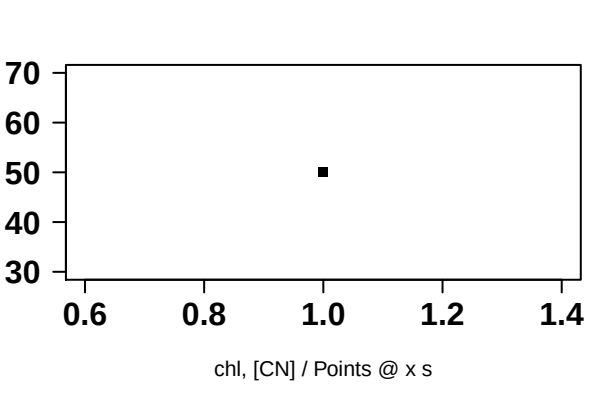

nb days: 8.3 freq: 9.9 min
500
400
300
200
100
0
200
600
1000
beta, [CN] / Points @ x s

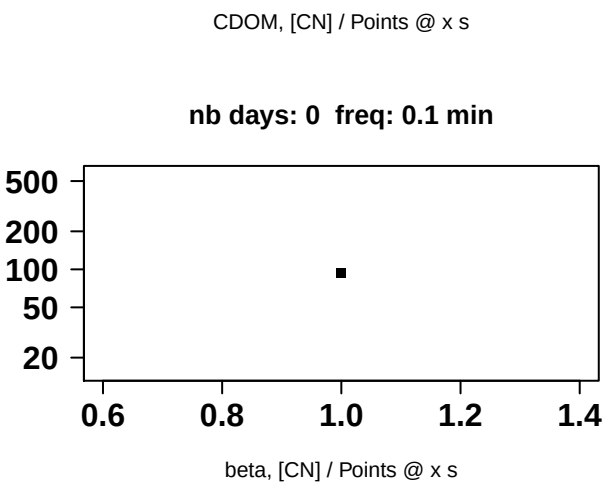

nb days: 8.3 freq: 59.4 min
6.5
6.4
6.3
6.2
6.1
6.0
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

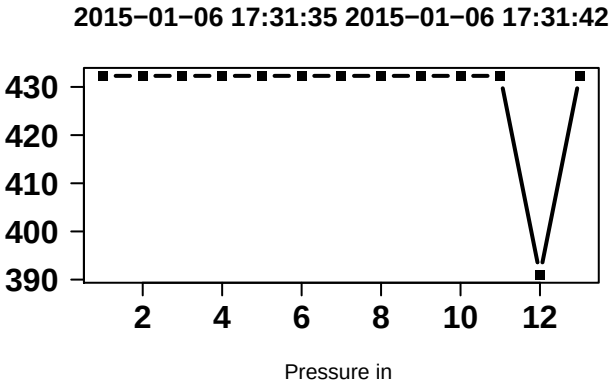

2015−01−06 13:42:52 2015−01−06 13:42:59
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

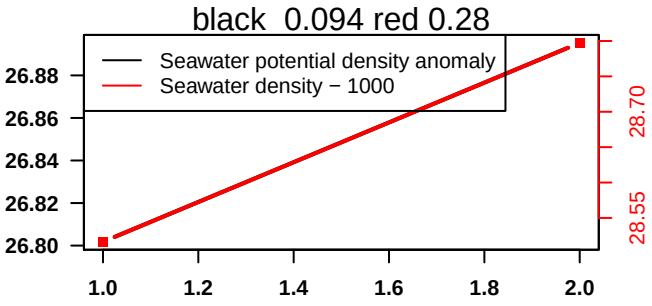

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

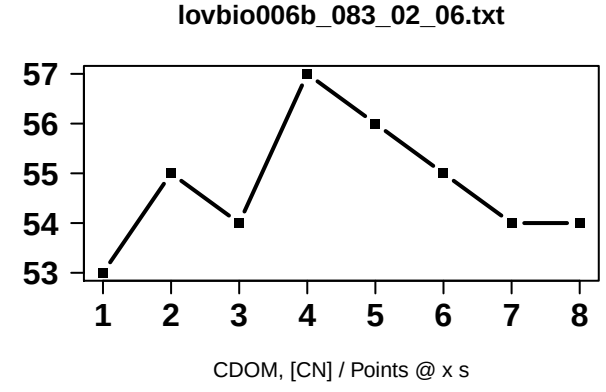

lovbio006b_083_01_06.txt
70
60
50
40
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

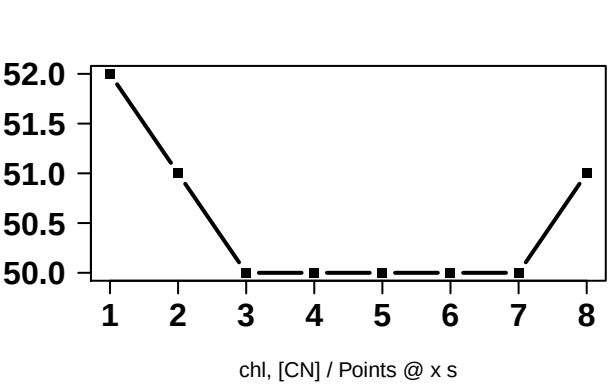

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

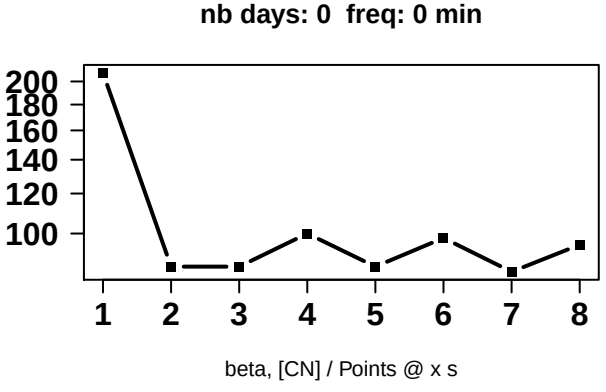

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

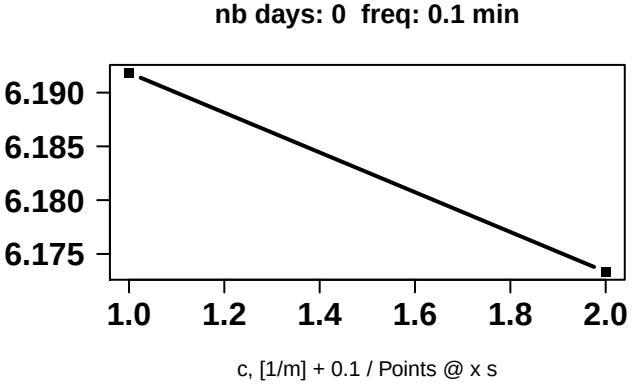

2015−01−06 17:31:35 2015−01−06 17:31:42
430
420
410
400
390
2
4
6
8
10
12
Pressure in

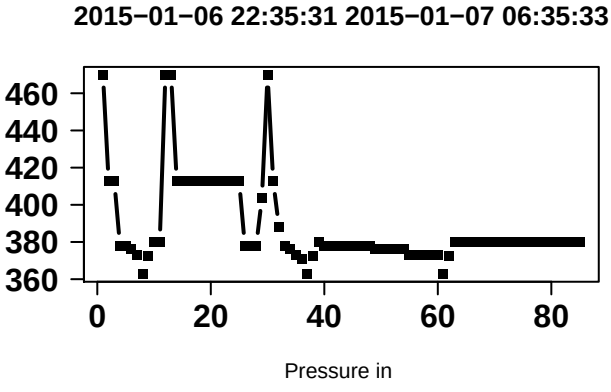

black 0.094 red 0.28
Seawater potential density anomaly
Seawater density − 1000
26.88
26.86
26.84
26.82
26.80
28.70
28.55
1.0
1.2
1.4
1.6
1.8
2.0

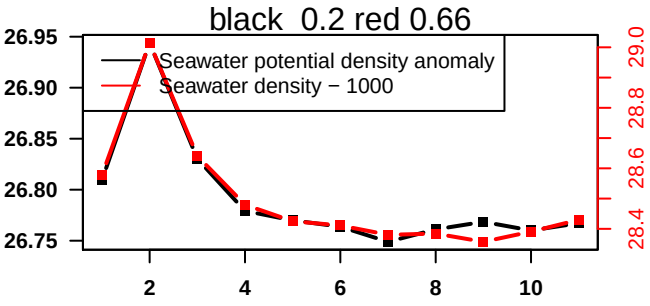

lovbio006b_083_02_06.txt
57
56
55
54
53
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

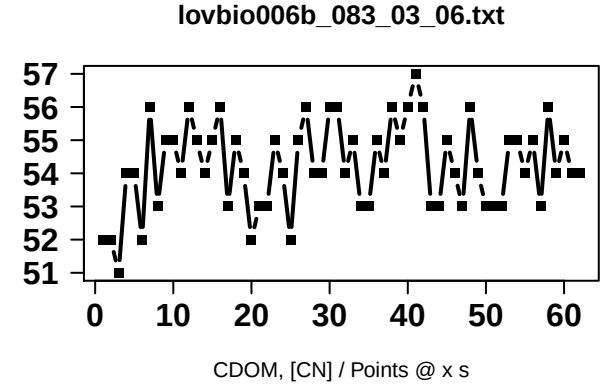

52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

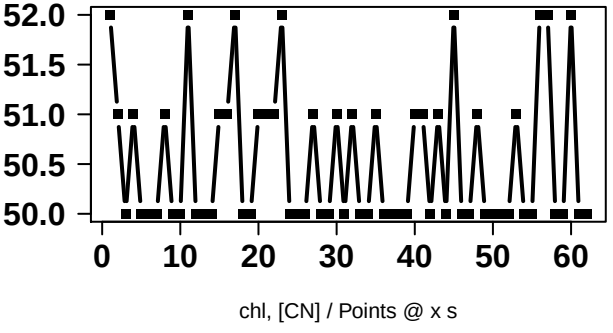

nb days: 0 freq: 0 min
200
180
160
140
120
100
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

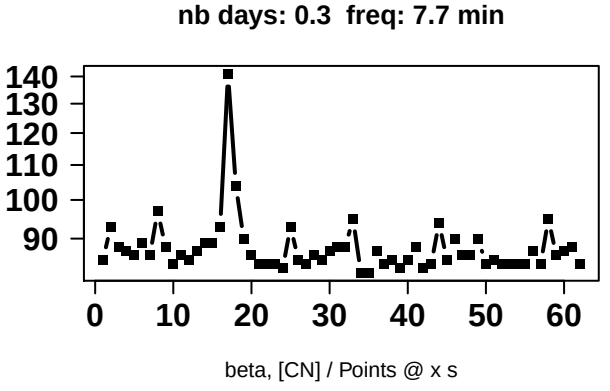

nb days: 0 freq: 0.1 min
6.190
6.185
6.180
6.175
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

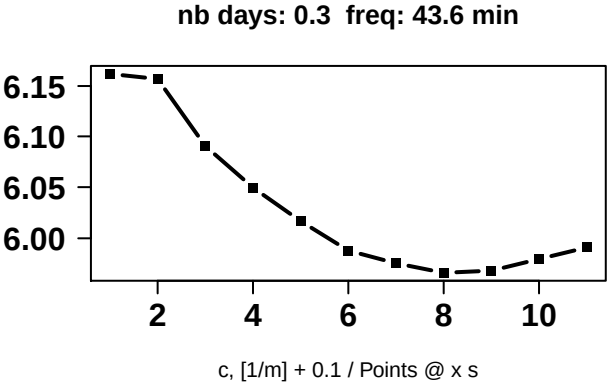

2015−01−06 22:35:31 2015−01−07 06:35:33
460
440
420
400
380
360
0
20
40
60
80
Pressure in

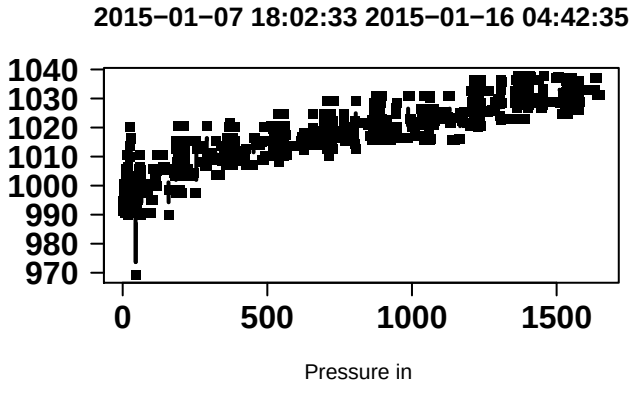

black 0.2 red 0.66
Seawater potential density anomaly
Seawater density − 1000
26.95
26.90
26.85
26.80
26.75
29.0
28.8
28.6
28.4
2
4
6
8
10

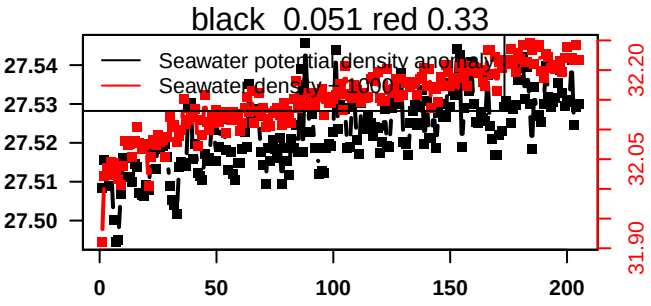

lovbio006b_083_03_06.txt
57
56
55
54
53
52
51
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

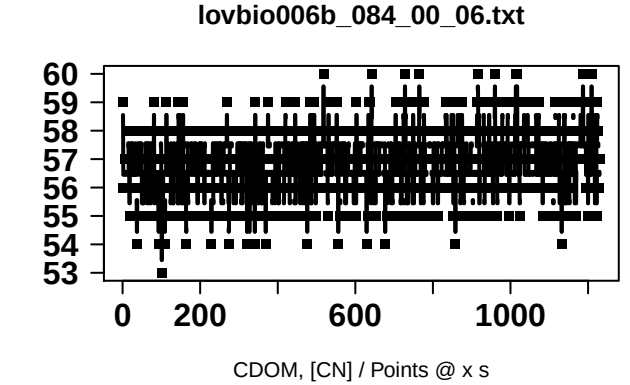

52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

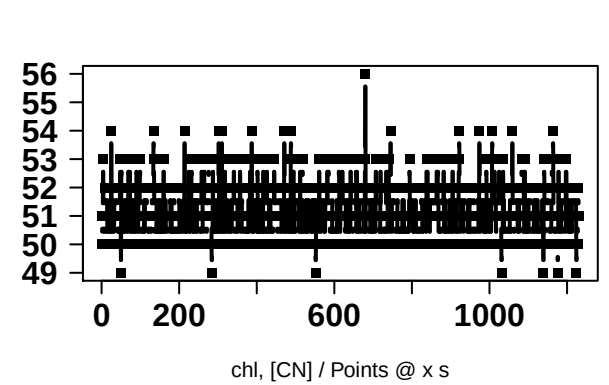

nb days: 0.3 freq: 7.7 min
140
130
120
110
100
90
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

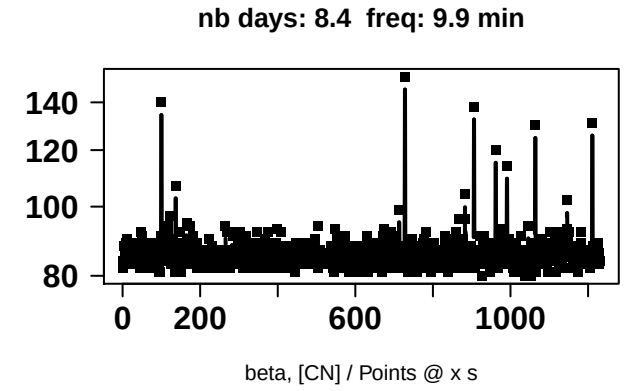

nb days: 0.3 freq: 43.6 min
6.15
6.10
6.05
6.00
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

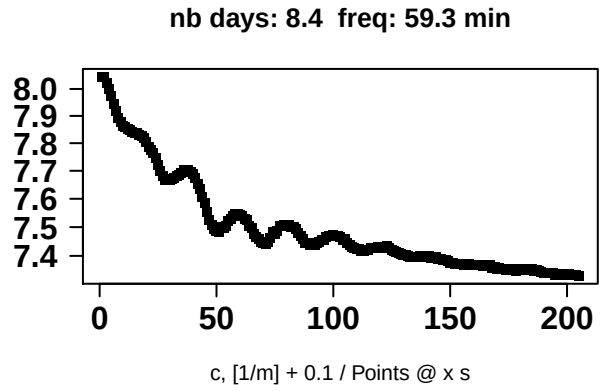

2015−01−07 18:02:33 2015−01−16 04:42:35
1040
1030
1020
1010
1000
990
980
970
0
500
1000
1500
Pressure in

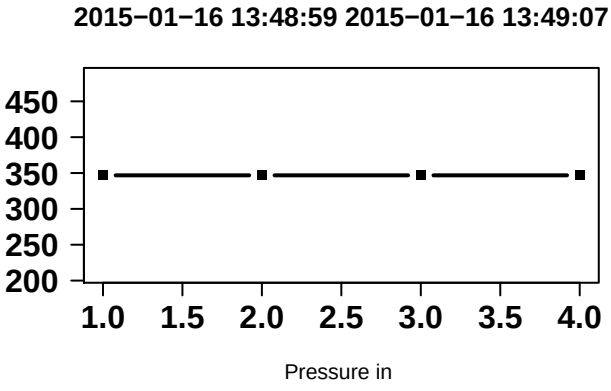

black 0.051 red 0.33
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
0
50
100
150
200
32.20
32.05
31.90

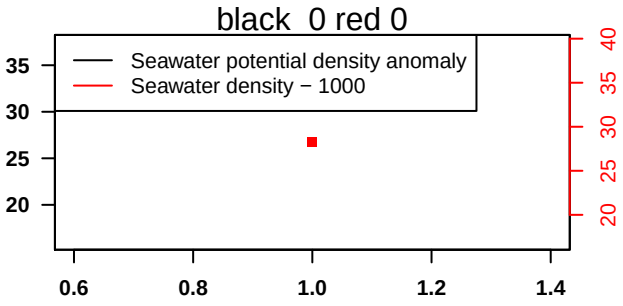

lovbio006b_084_00_06.txt
60
59
58
57
56
55
54
53
0
200
600
1000
CDOM, [CN] / Points @ x s

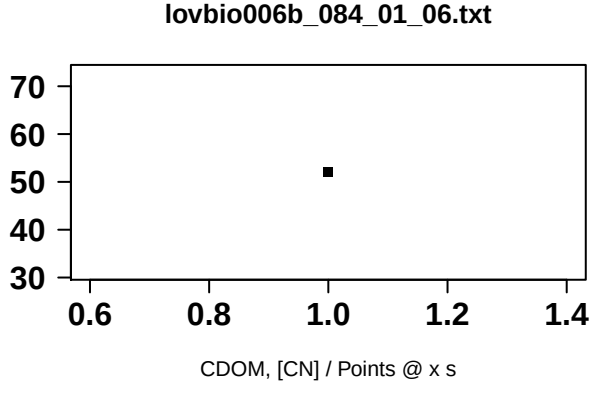

56
55
54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

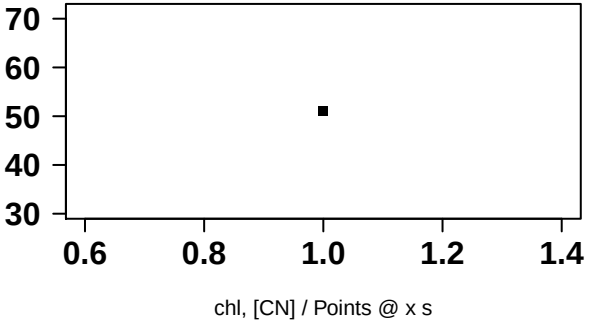

nb days: 8.4 freq: 9.9 min
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

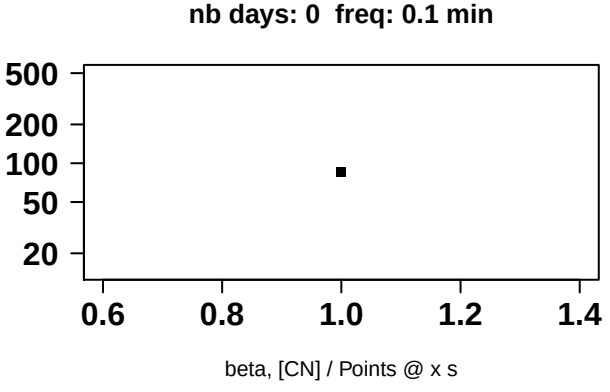

nb days: 8.4 freq: 59.3 min
8.0
7.9
7.8
7.7
7.6
7.5
7.4
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

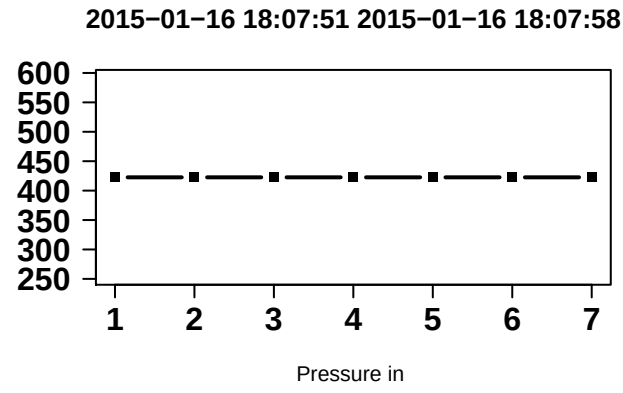

2015−01−16 13:48:59 2015−01−16 13:49:07
450
400
350
300
250
200
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

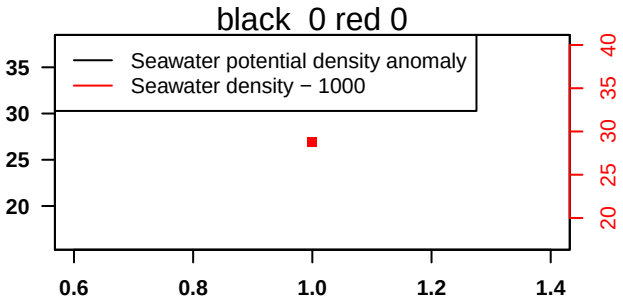

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

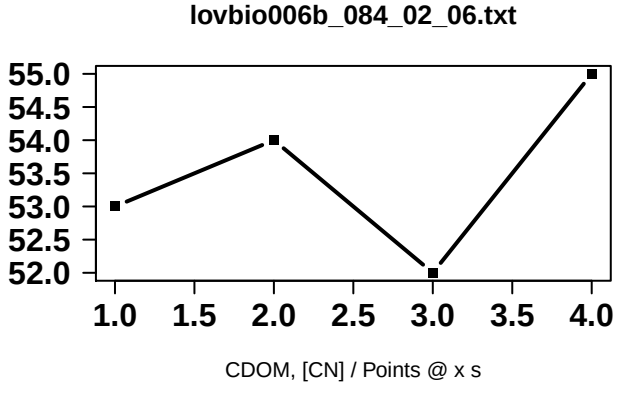

lovbio006b_084_01_06.txt
70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

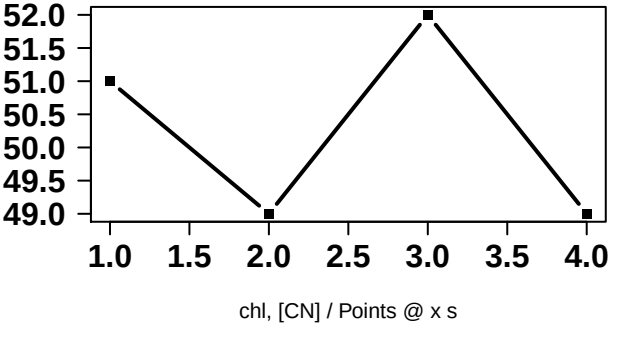

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

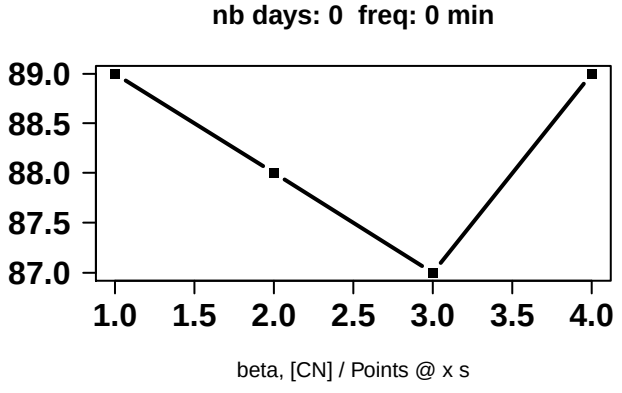

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

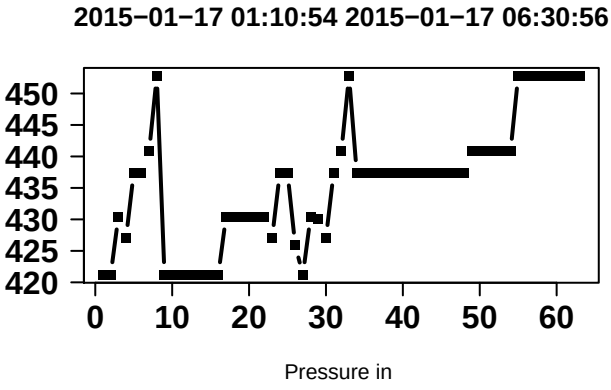

2015−01−16 18:07:51 2015−01−16 18:07:58
600
550
500
450
400
350
300
250
1
2
3
4
5
6
7
Pressure in

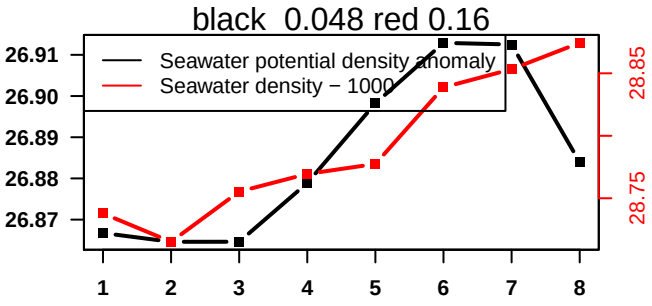

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

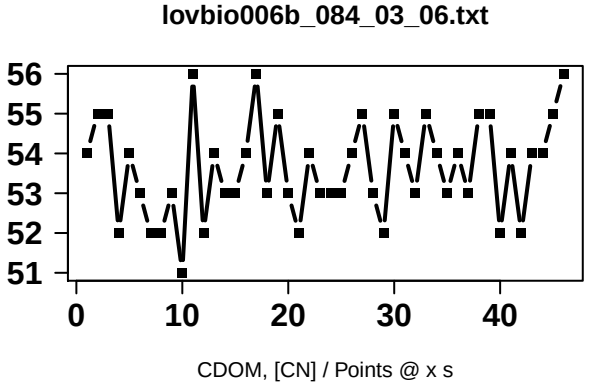

lovbio006b_084_02_06.txt
55.0
54.5
54.0
53.5
53.0
52.5
52.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

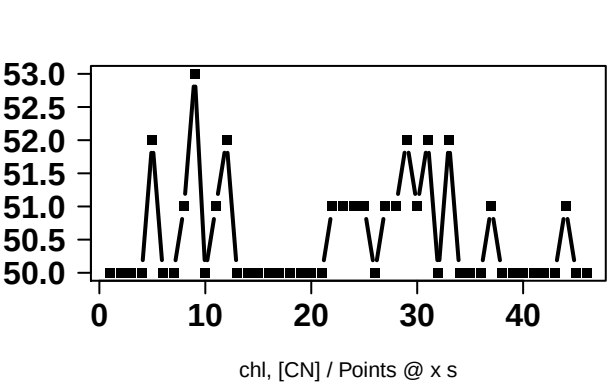

52.0
51.5
51.0
50.5
50.0
49.5
49.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

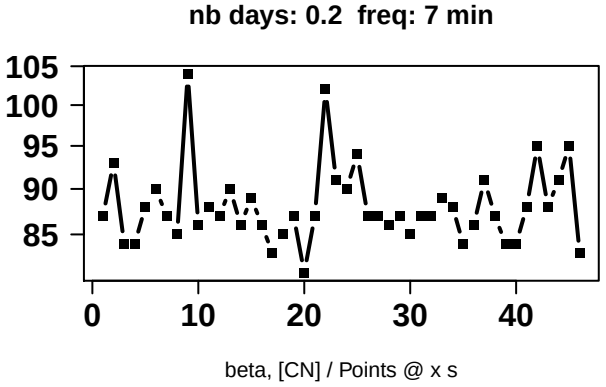

nb days: 0 freq: 0 min
89.0
88.5
88.0
87.5
87.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

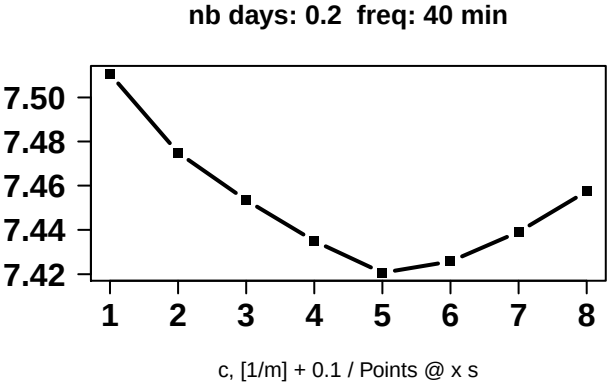

2015−01−17 01:10:54 2015−01−17 06:30:56
450
445
440
435
430
425
420
0
10
20
30
40
50
60
Pressure in

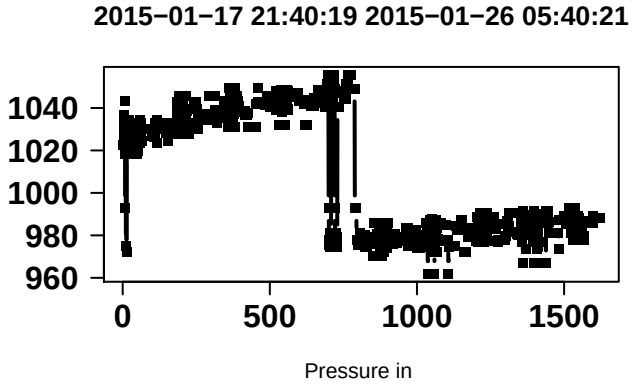

black 0.048 red 0.16
Seawater potential density anomaly
Seawater density − 1000
26.91
26.90
26.89
26.88
26.87
28.85
28.75
1
2
3
4
5
6
7
8

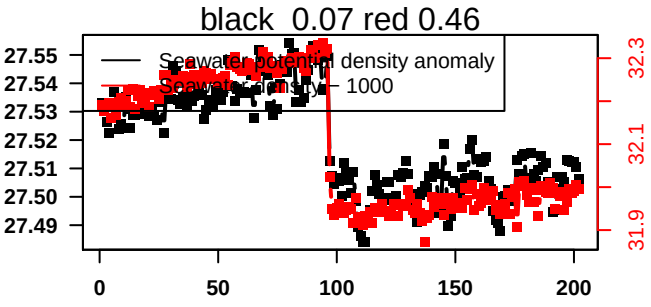

lovbio006b_084_03_06.txt
56
55
54
53
52
51
0
10
20
30
40
CDOM, [CN] / Points @ x s

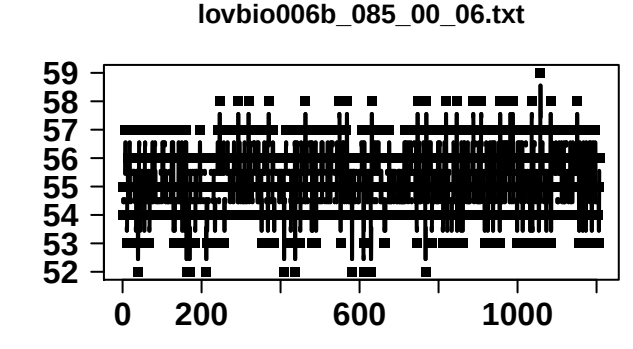

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
chl, [CN] / Points @ x s

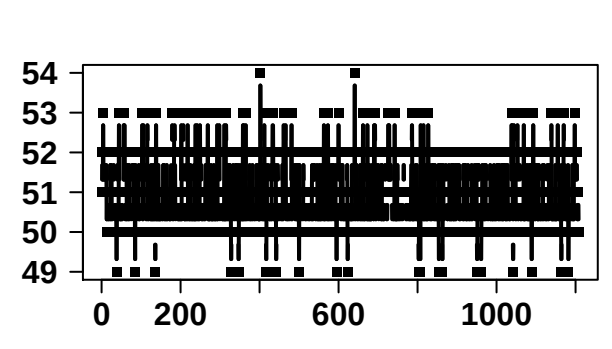

nb days: 0.2 freq: 7 min
105
100
95
90
85
0
10
20
30
40
beta, [CN] / Points @ x s

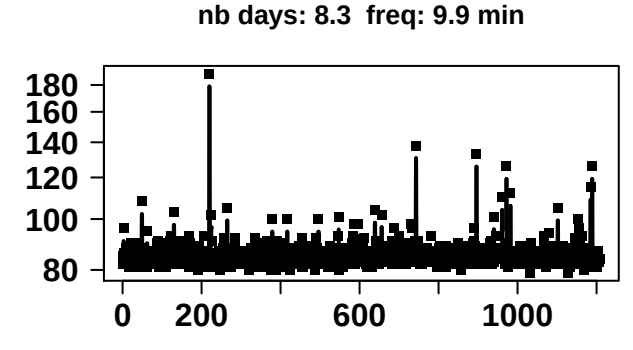

nb days: 0.2 freq: 40 min
7.50
7.48
7.46
7.44
7.42
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

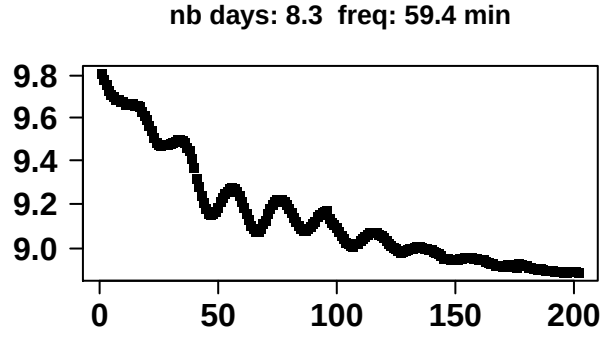

2015−01−17 21:40:19 2015−01−26 05:40:21
1040
1020
1000
980
960
0
500
1000
1500
Pressure in

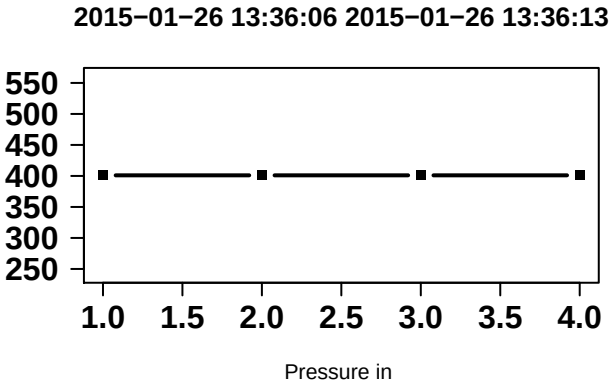

black 0.07 red 0.46
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
27.50
27.49
32.3
32.1
31.9
0
50
100
150
200

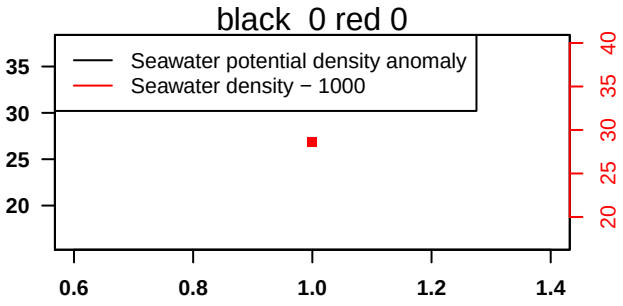

lovbio006b_085_00_06.txt
59
58
57
56
55
54
53
52
0
200
600
1000
CDOM, [CN] / Points @ x s

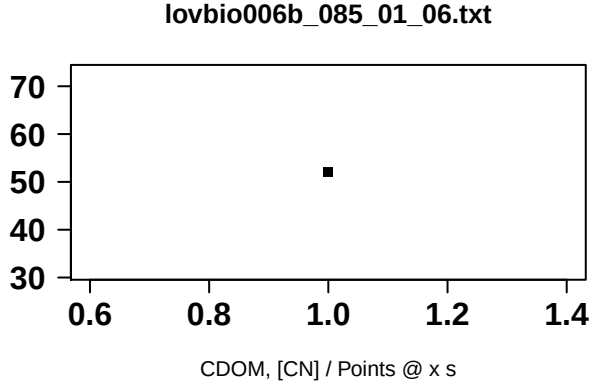

54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

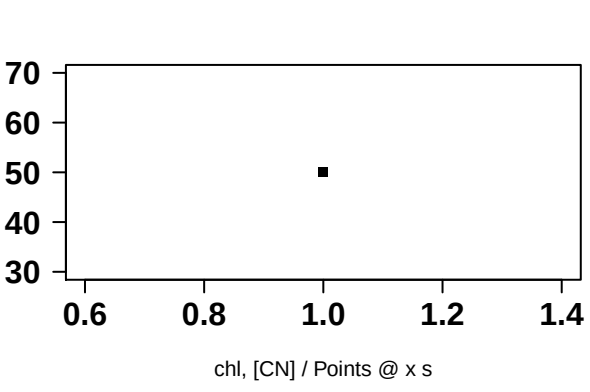

nb days: 8.3 freq: 9.9 min
180
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

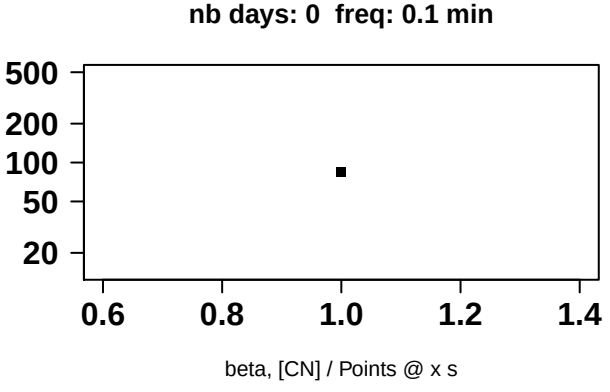

nb days: 8.3 freq: 59.4 min
9.8
9.6
9.4
9.2
9.0
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

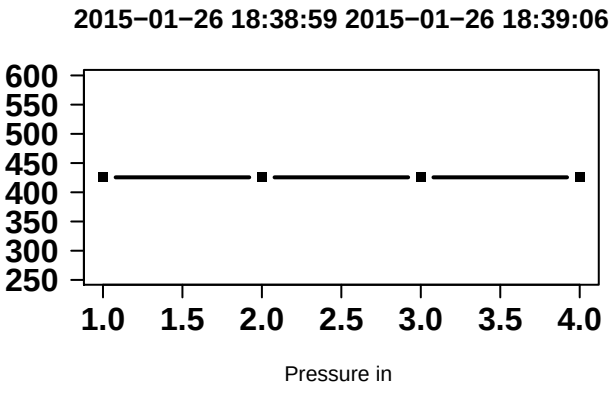

2015−01−26 13:36:06 2015−01−26 13:36:13
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

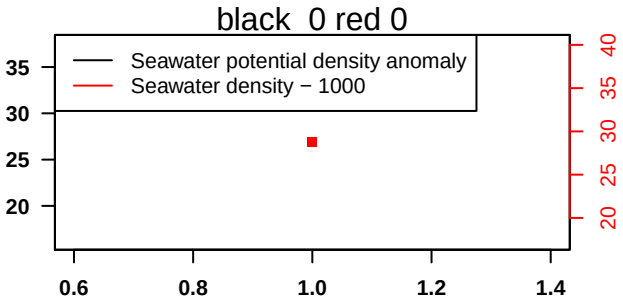

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

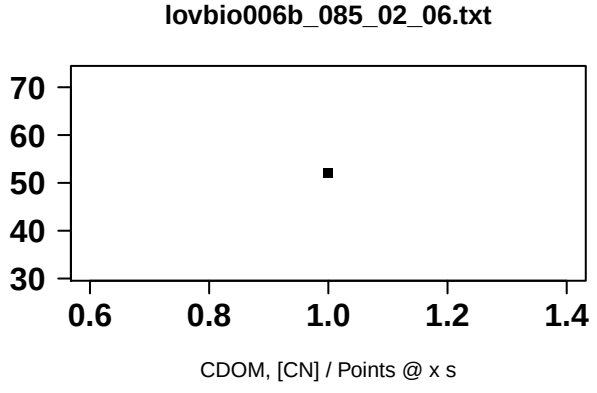

lovbio006b_085_01_06.txt
70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

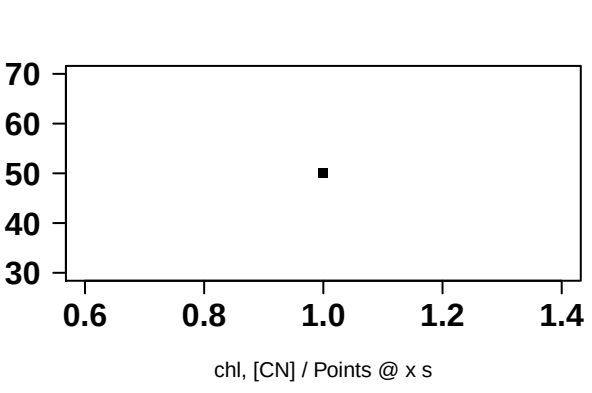

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

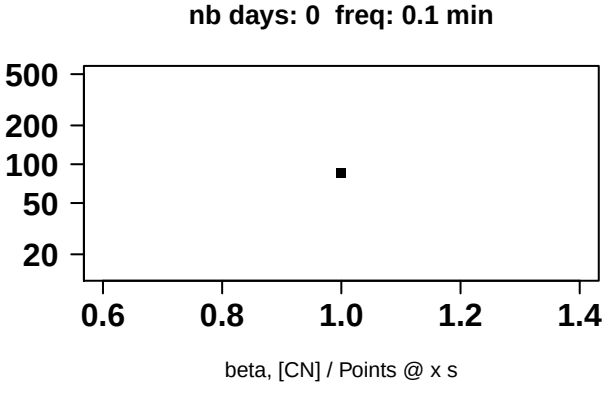

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

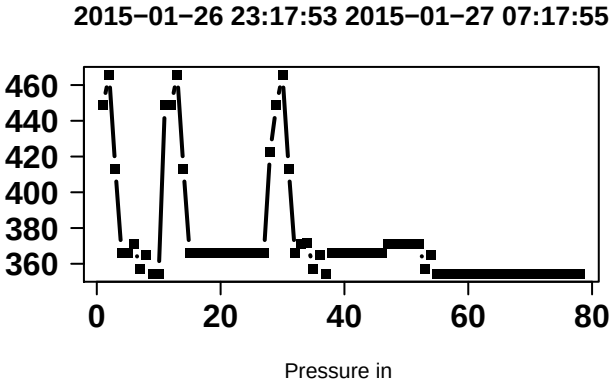

2015−01−26 18:38:59 2015−01−26 18:39:06
600
550
500
450
400
350
300
250
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Pressure in

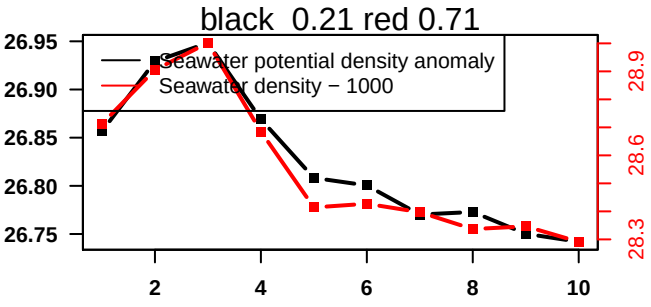

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

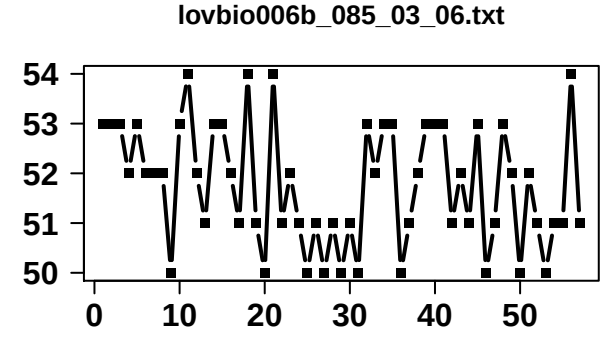

lovbio006b_085_02_06.txt
70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

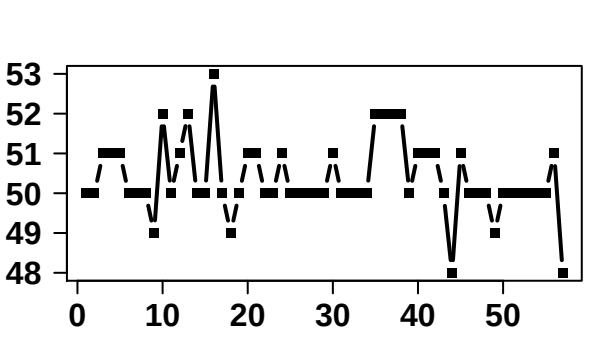

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

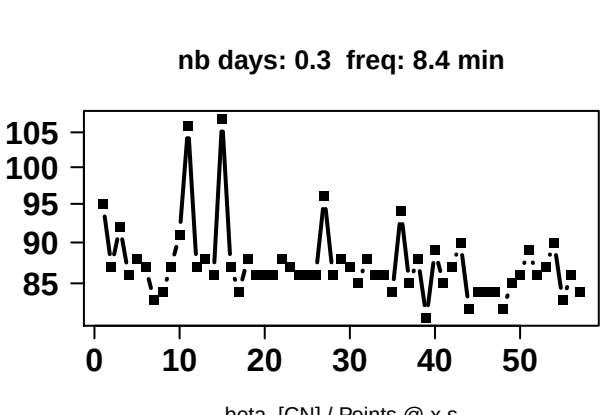

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

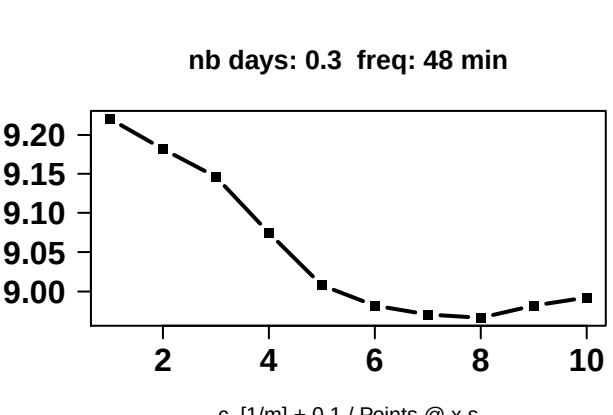

2015−01−26 23:17:53 2015−01−27 07:17:55
460
440
420
400
380
360
0
20
40
60
80
Pressure in

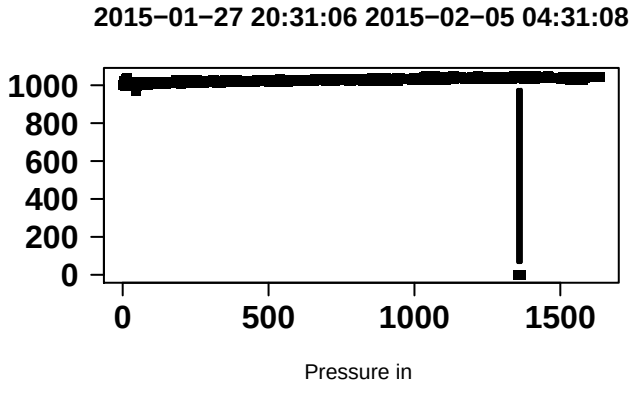

black 0.21 red 0.71
Seawater potential density anomaly
Seawater density − 1000
26.95
26.90
26.85
26.80
26.75
28.9
28.6
28.3
2
4
6
8
10

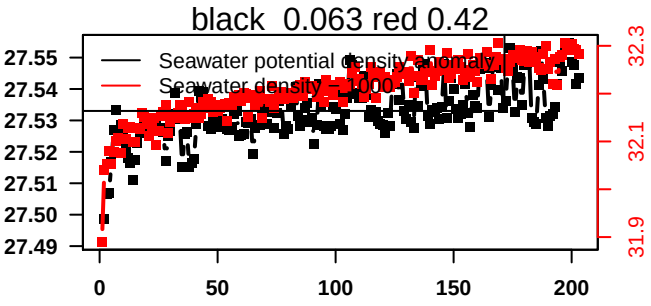

lovbio006b_085_03_06.txt
54
53
52
51
50
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

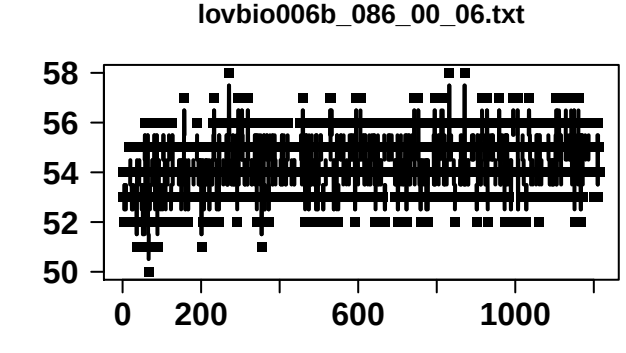

53
52
51
50
49
48
0
10
20
30
40
50
chl, [CN] / Points @ x s

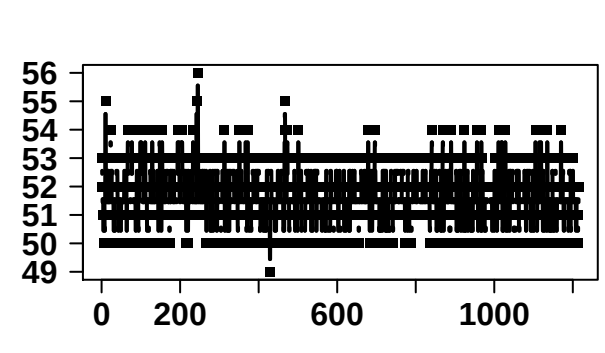

nb days: 0.3 freq: 8.4 min
105
100
95
90
85
0
10
20
30
40
50
beta, [CN] / Points @ x s

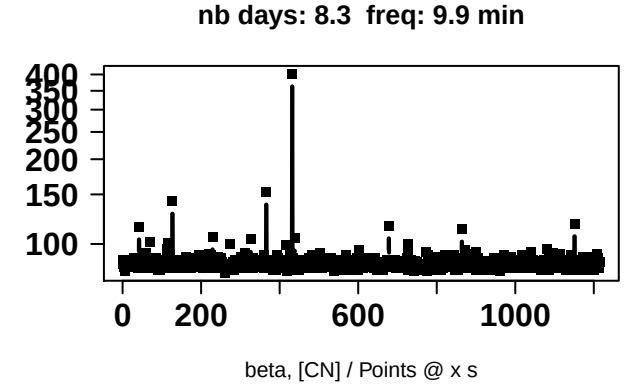

nb days: 0.3 freq: 48 min
9.20
9.15
9.10
9.05
9.00
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

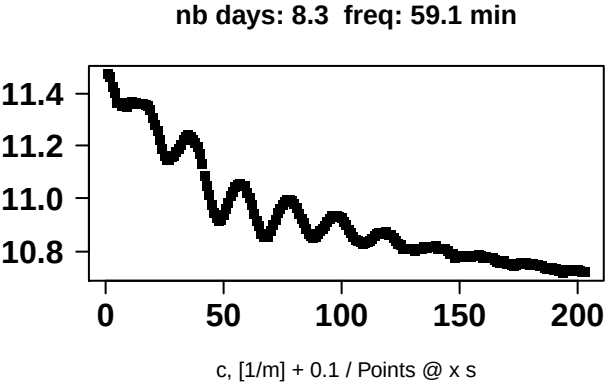

2015−01−27 20:31:06 2015−02−05 04:31:08
1000
800
600
400
200
0
0
500
1000
1500
Pressure in

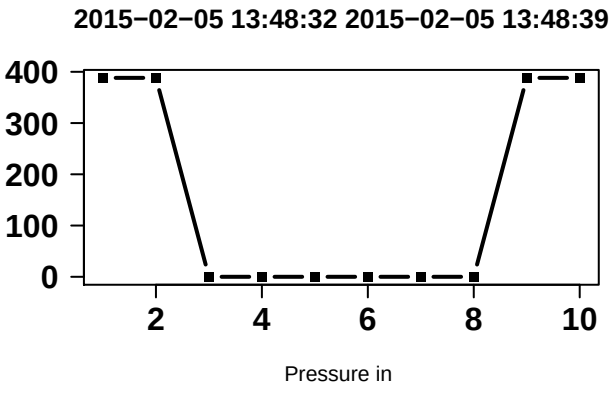

black 0.063 red 0.42
Seawater potential density anomaly
Seawater density −1000
27.55
27.54
27.53
27.52
27.51
27.50
27.49
32.3
32.1
31.9
0
50
100
150
200

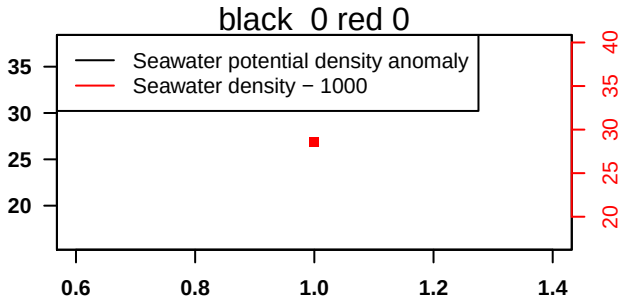

lovbio006b_086_00_06.txt
58
56
54
52
50
0
200
600
1000
CDOM, [CN] / Points @ x s

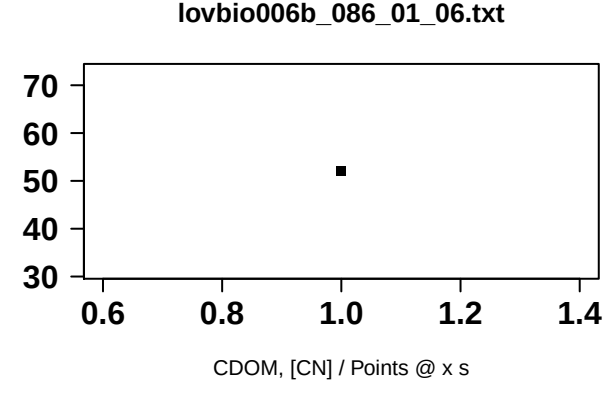

56
55
54
53
52
51
50
49
0
200
600
1000
chl, [CN] / Points @ x s

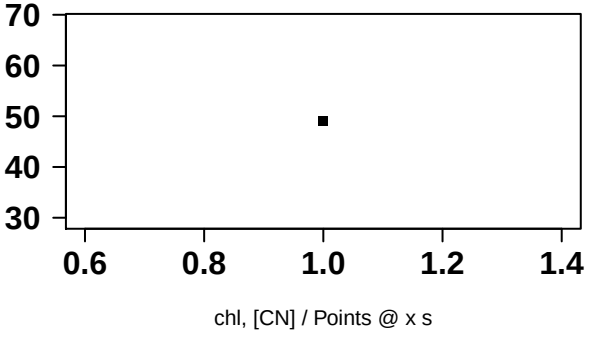

nb days: 8.3 freq: 9.9 min
400
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

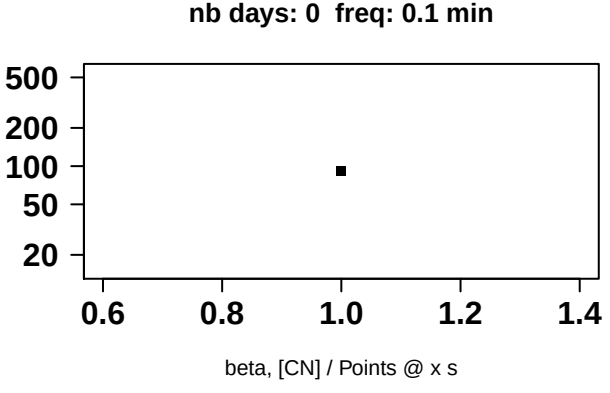

nb days: 8.3 freq: 59.1 min
11.4
11.2
11.0
10.8
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

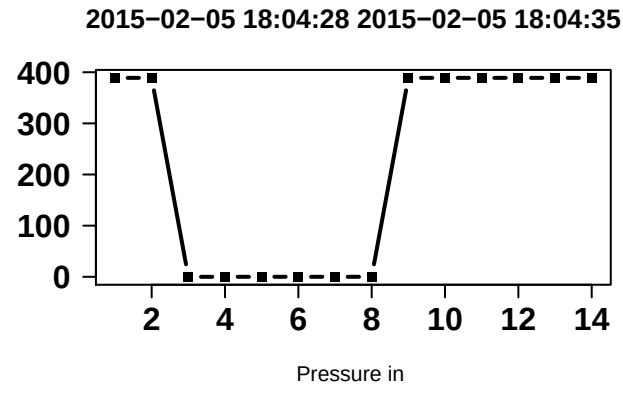

2015−02−05 13:48:32 2015−02−05 13:48:39
400
300
200
100
0
2
4
6
8
10
Pressure in

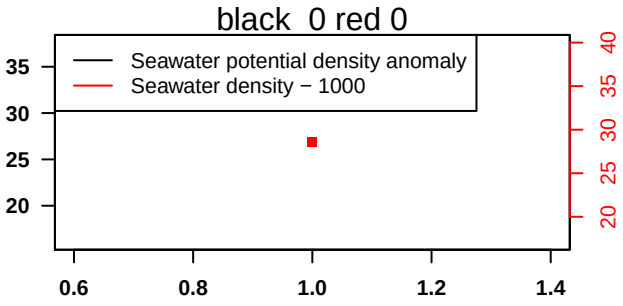

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

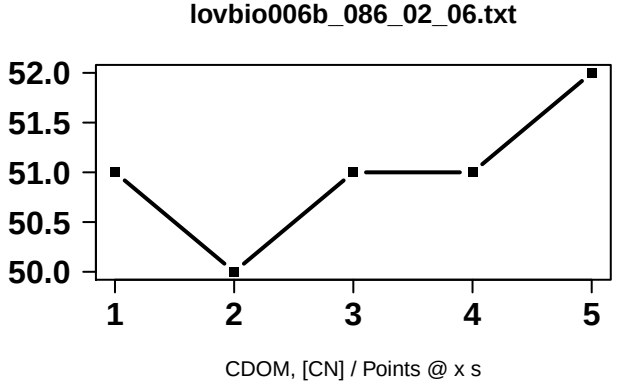

lovbio006b_086_01_06.txt
70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

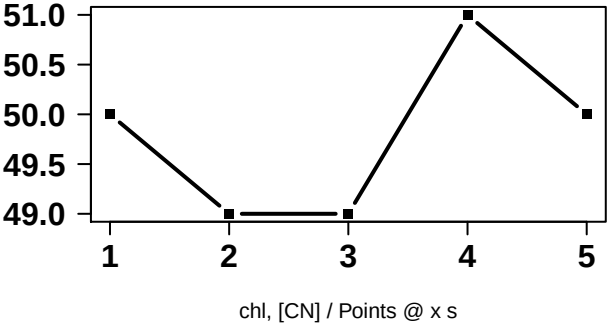

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

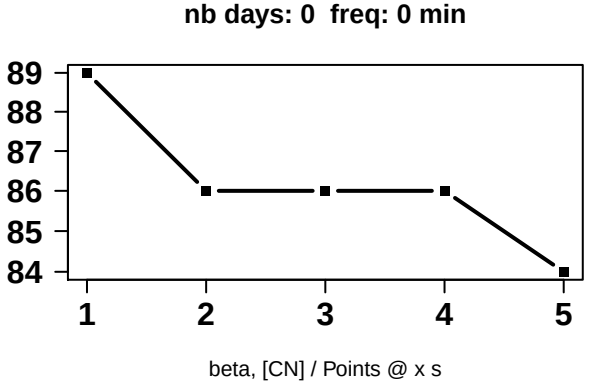

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

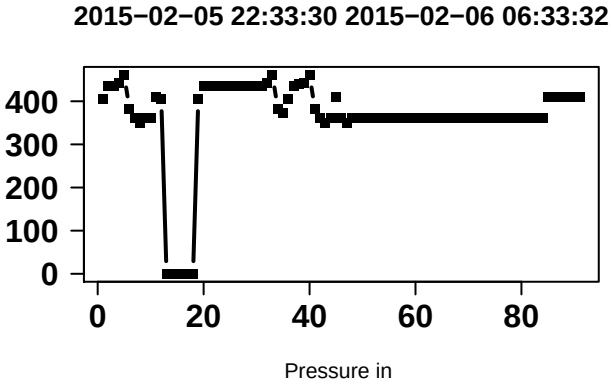

2015−02−05 18:04:28 2015−02−05 18:04:35
400
300
200
100
0
2
4
6
8
10
12
14
Pressure in

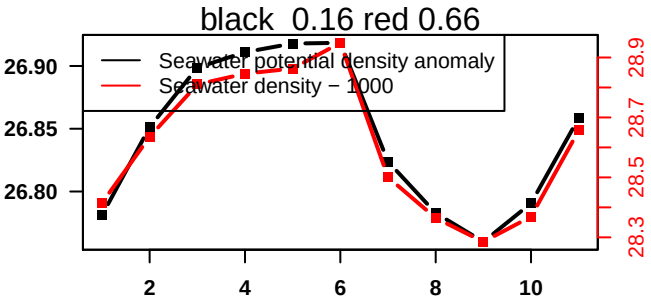

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

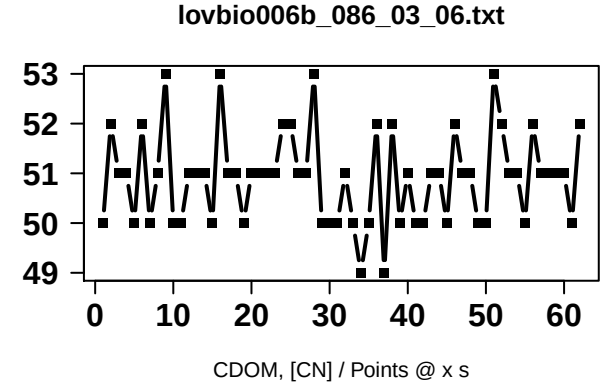

lovbio006b_086_02_06.txt
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

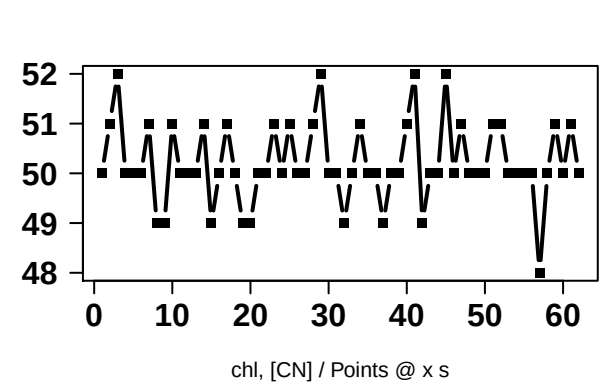

51.0
50.5
50.0
49.5
49.0
1
2
3
4
5
chl, [CN] / Points @ x s

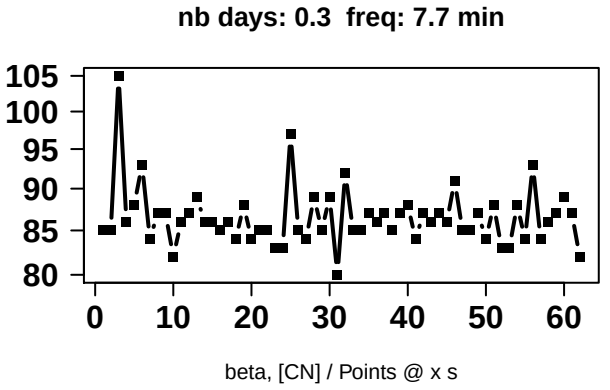

nb days: 0 freq: 0 min
89
88
87
86
85
84
1
2
3
4
5
beta, [CN] / Points @ x s

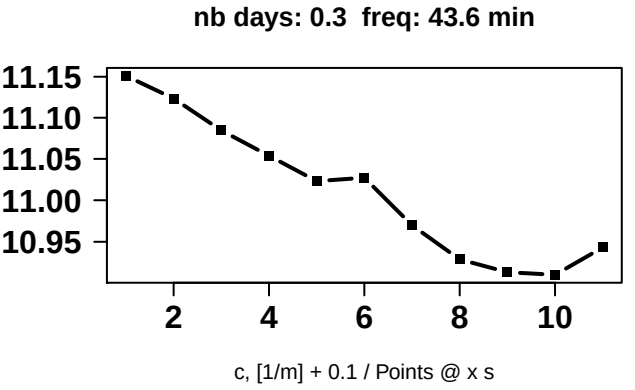

2015−02−05 22:33:30 2015−02−06 06:33:32
400
300
200
100
0
0
20
40
60
80
Pressure in

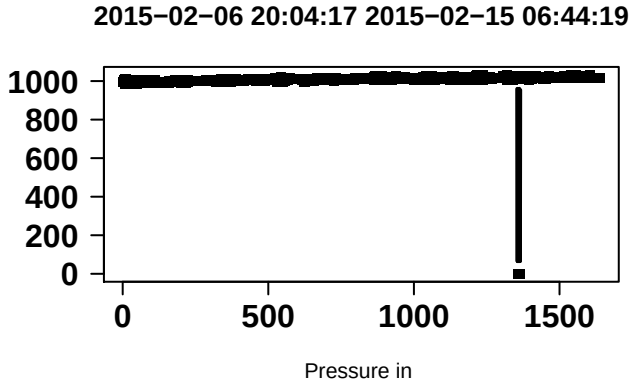

black 0.16 red 0.66
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
2
4
6
8
10
28.9
28.7
28.5
28.3

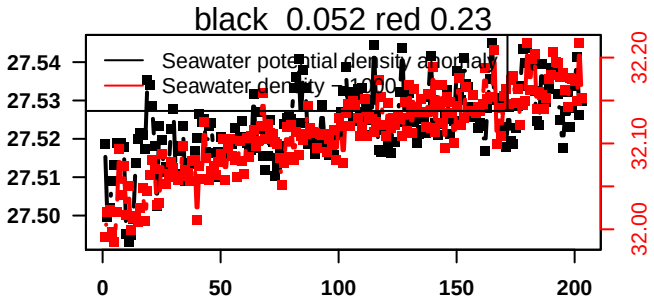

lovbio006b_086_03_06.txt
53
52
51
50
49
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

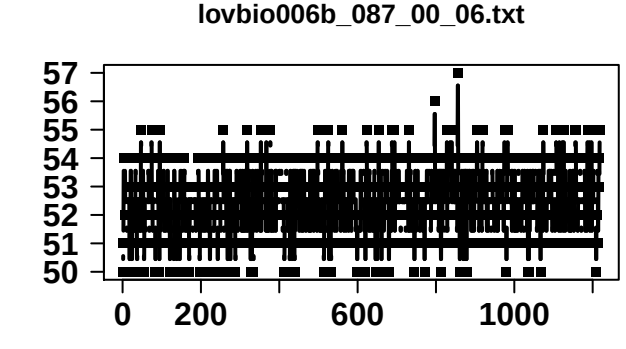

52
51
50
49
48
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

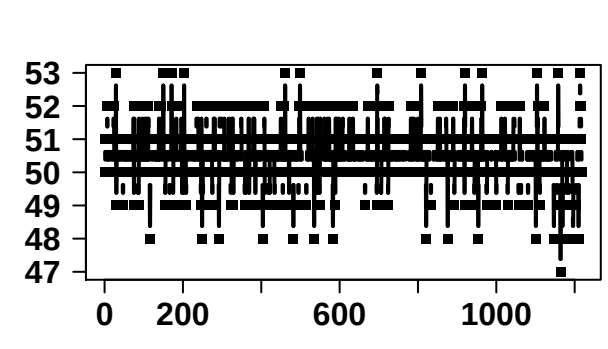

nb days: 0.3 freq: 7.7 min
105
100
95
90
85
80
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

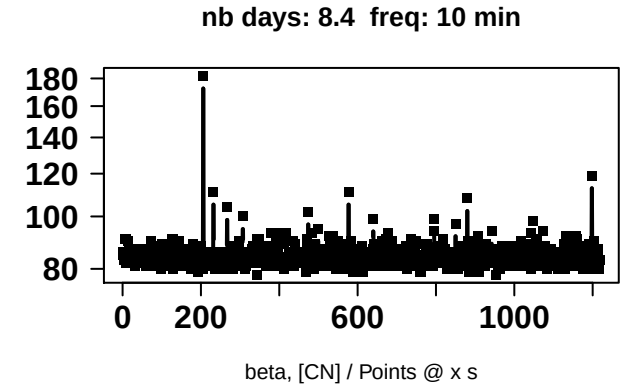

nb days: 0.3 freq: 43.6 min
11.15
11.10
11.05
11.00
10.95
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

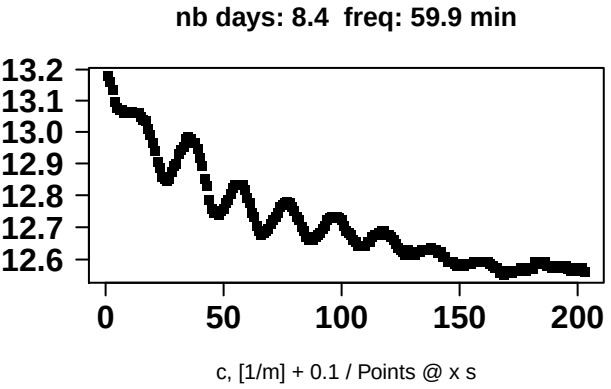

2015−02−06 20:04:17 2015−02−15 06:44:19
1000
800
600
400
200
0
0
500
1000
1500
Pressure in

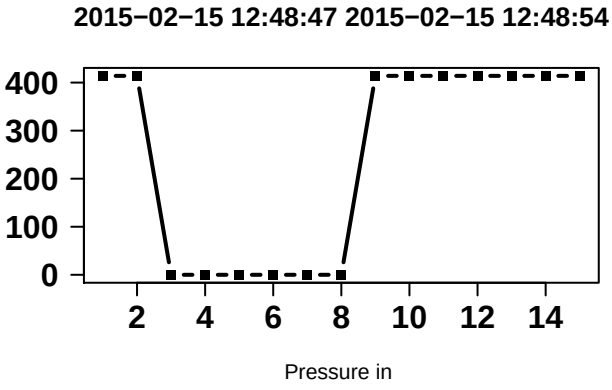

black 0.052 red 0.23
Seawater potential density anomaly
Seawater density −1000
27.54
27.53
27.52
27.51
27.50
32.20
32.10
32.00
0
50
100
150
200

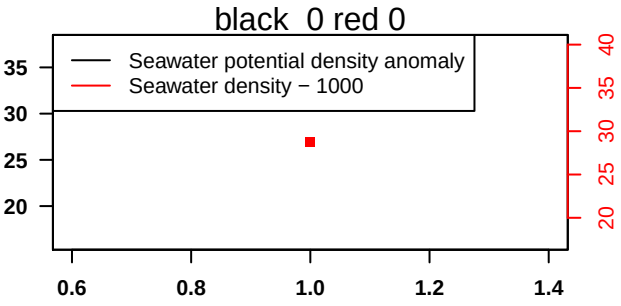

lovbio006b_087_00_06.txt
57
56
55
54
53
52
51
50
0
200
600
1000
CDOM, [CN] / Points @ x s

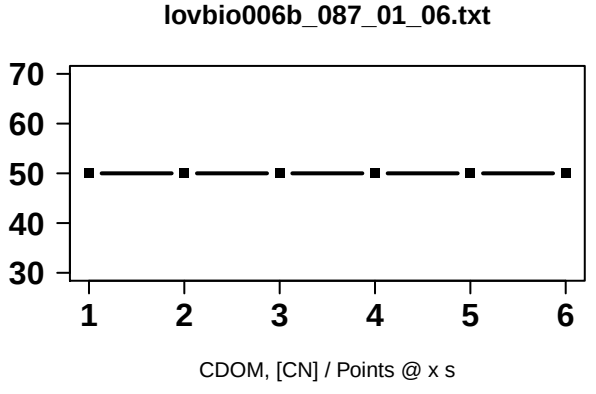

53
52
51
50
49
48
47
0
200
600
1000
chl, [CN] / Points @ x s

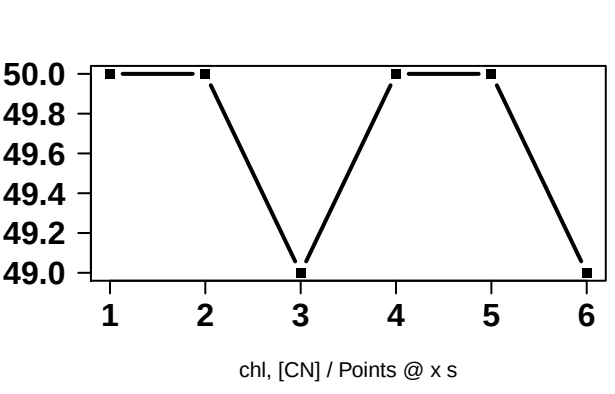

nb days: 8.4 freq: 10 min
180
160
140
120
100
80
0
200
600
1000
beta, [CN] / Points @ x s

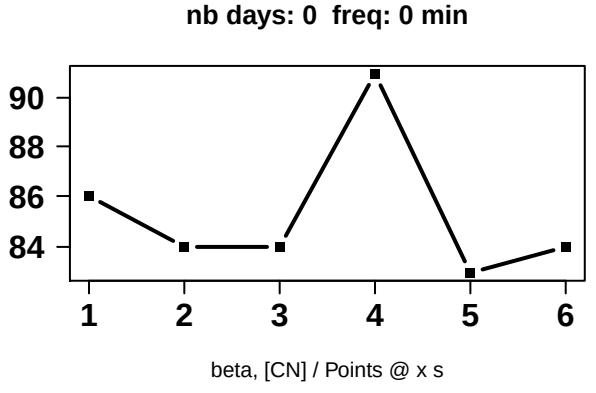

nb days: 8.4 freq: 59.9 min
13.2
13.1
13.0
12.9
12.8
12.7
12.6
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

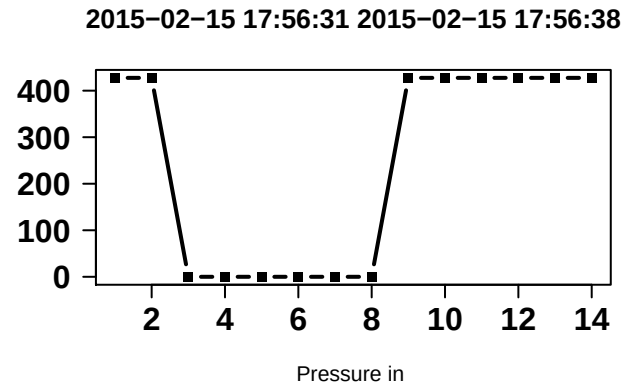

2015−02−15 12:48:47 2015−02−15 12:48:54
400
300
200
100
0
2
4
6
8
10
12
14
Pressure in

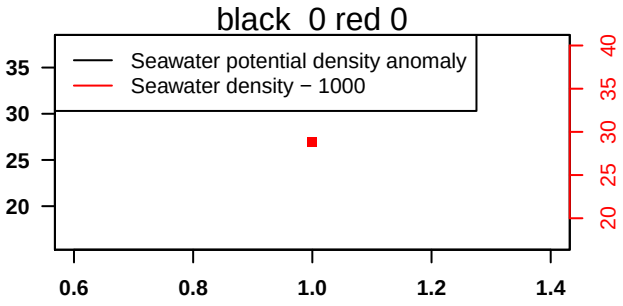

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

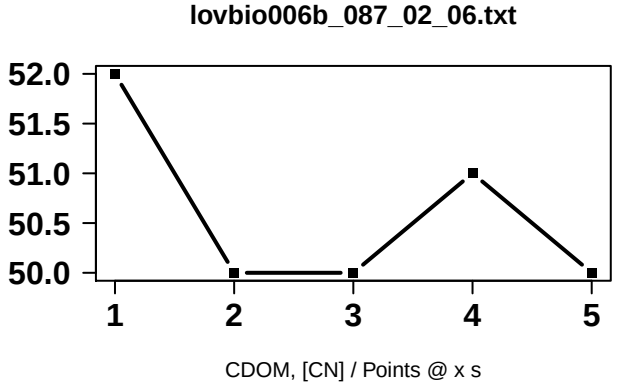

lovbio006b_087_01_06.txt
70
60
50
40
30
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

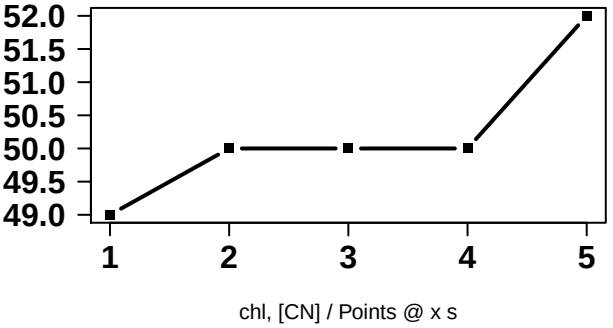

50.0
49.8
49.6
49.4
49.2
49.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

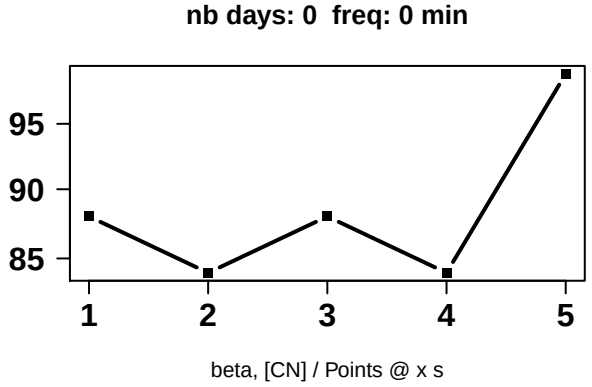

nb days: 0 freq: 0 min
90
88
86
84
1
2
3
4
5
6
beta, [CN] / Points @ x s

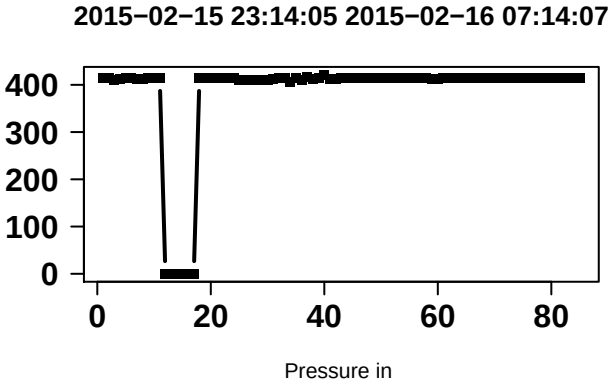

2015−02−15 17:56:31 2015−02−15 17:56:38
400
300
200
100
0
2
4
6
8
10
12
14
Pressure in

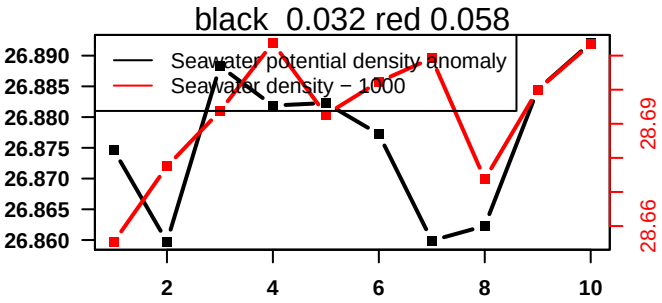

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

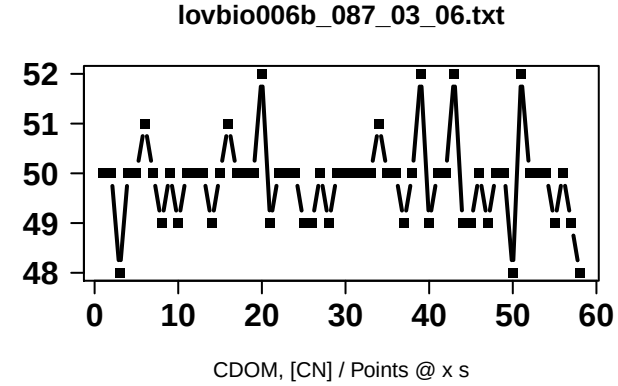

lovbio006b_087_02_06.txt
52.0
51.5
51.0
50.5
50.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

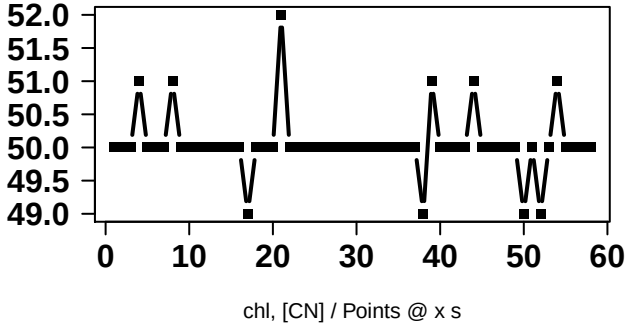

52.0
51.5
51.0
50.5
50.0
49.5
49.0
1
2
3
4
5
chl, [CN] / Points @ x s

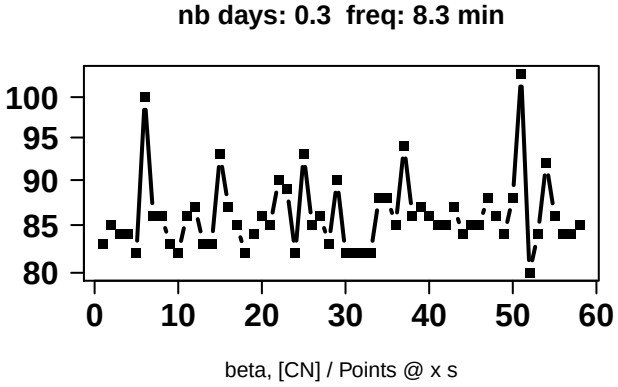

nb days: 0 freq: 0 min
95
90
85
1
2
3
4
5
beta, [CN] / Points @ x s

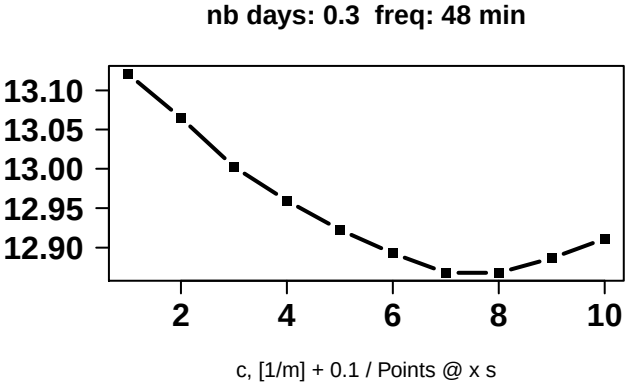

2015−02−15 23:14:05 2015−02−16 07:14:07
400
300
200
100
0
0
20
40
60
80
Pressure in

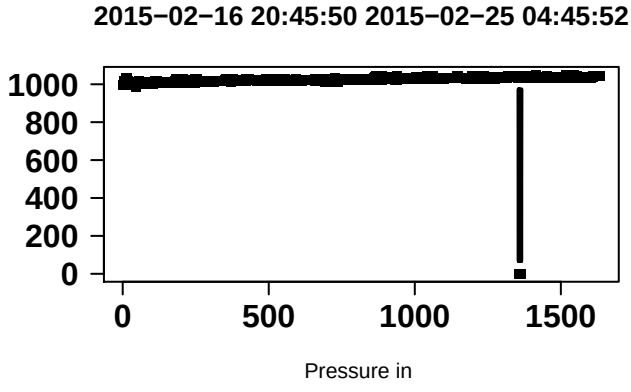

black 0.032 red 0.058
Seawater potential density anomaly
Seawater density − 1000
26.890
26.885
26.880
26.875
26.870
26.865
26.860
28.69
28.66
2
4
6
8
10

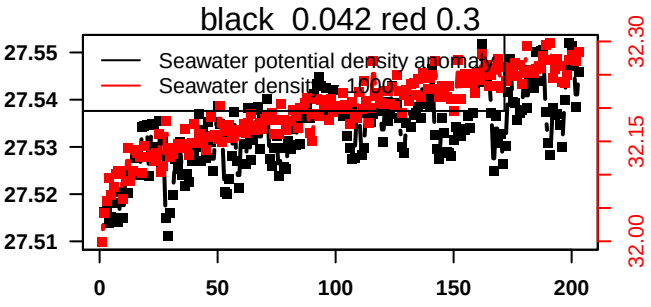

lovbio006b_087_03_06.txt
52
51
50
49
48
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

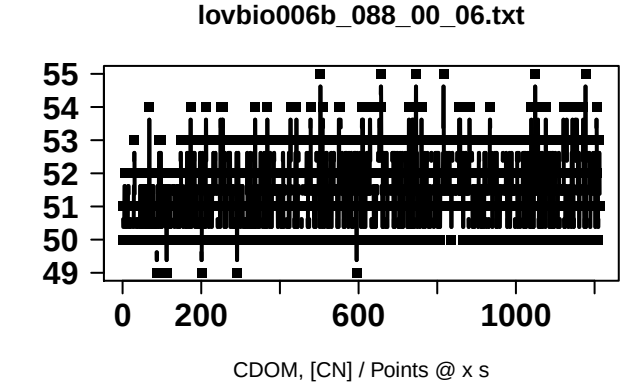

52.0
51.5
51.0
50.5
50.0
49.5
49.0
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

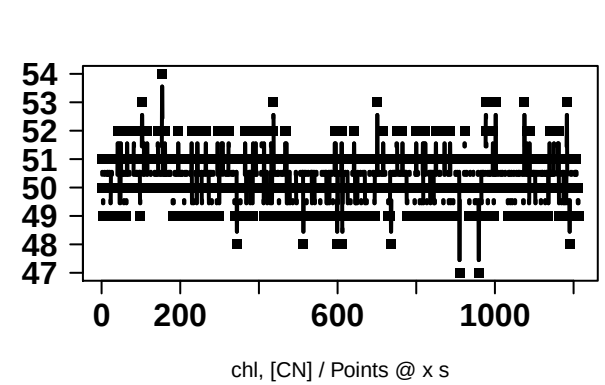

nb days: 0.3 freq: 8.3 min
100
95
90
85
80
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

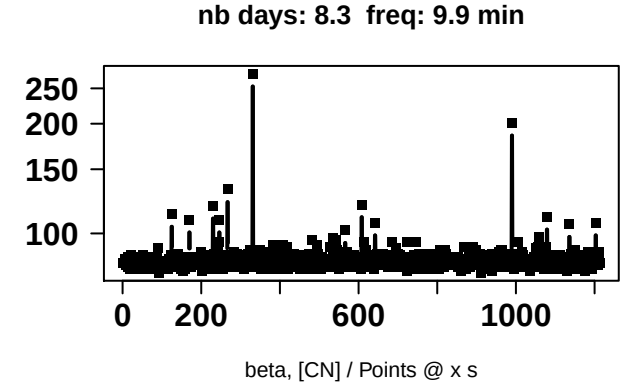

nb days: 0.3 freq: 48 min
13.10
13.05
13.00
12.95
12.90
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

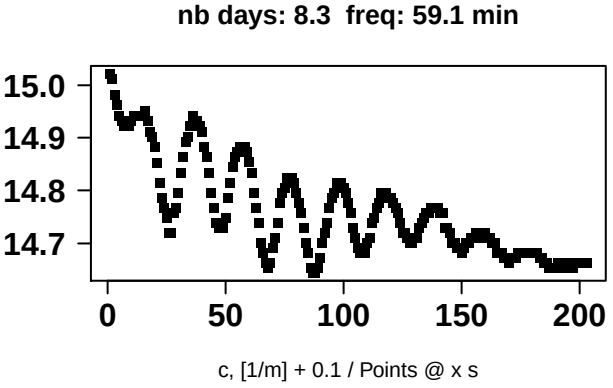

2015−02−16 20:45:50 2015−02−25 04:45:52
1000
800
600
400
200
0
0
500
1000
1500
Pressure in

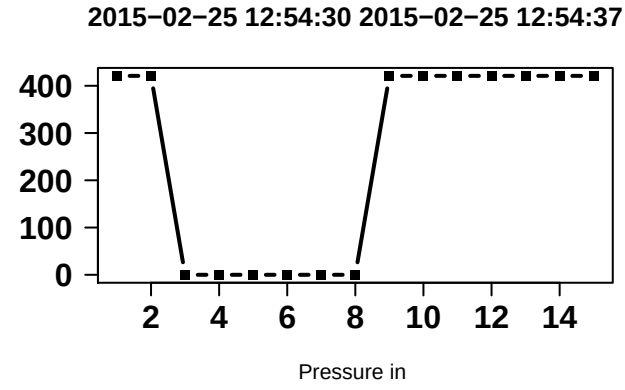

black 0.042 red 0.3
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
32.30
32.15
32.00
0
50
100
150
200

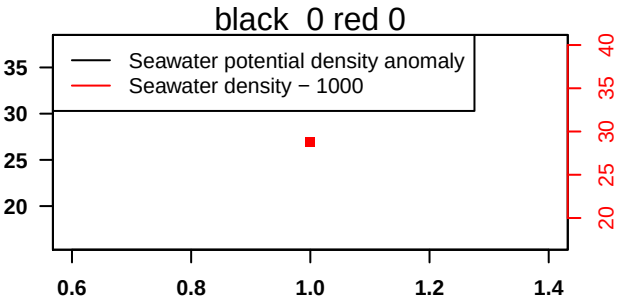

lovbio006b_088_00_06.txt
55
54
53
52
51
50
49
0
200
600
1000
CDOM, [CN] / Points @ x s

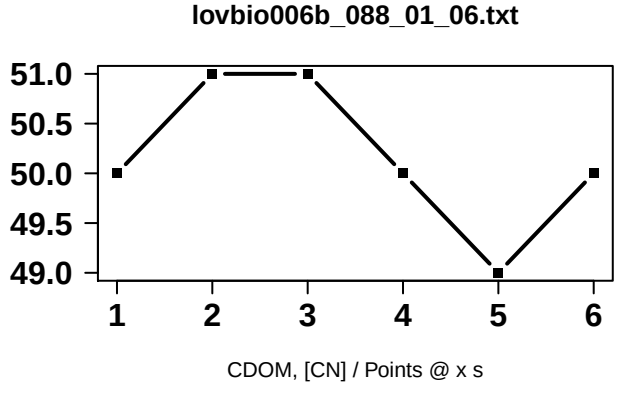

54
53
52
51
50
49
48
47
0
200
600
1000
chl, [CN] / Points @ x s

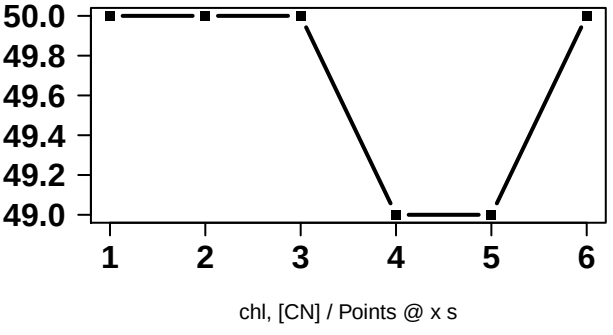

nb days: 8.3 freq: 9.9 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

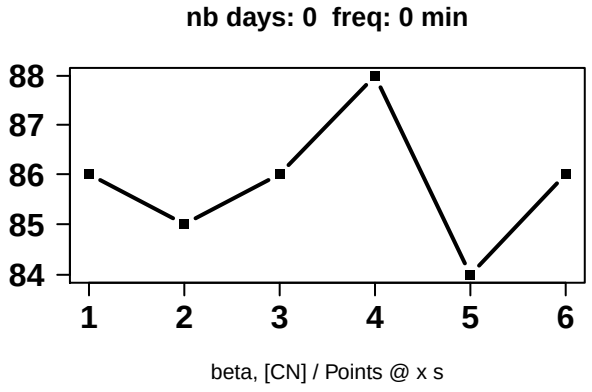

nb days: 8.3 freq: 59.1 min
15.0
14.9
14.8
14.7
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

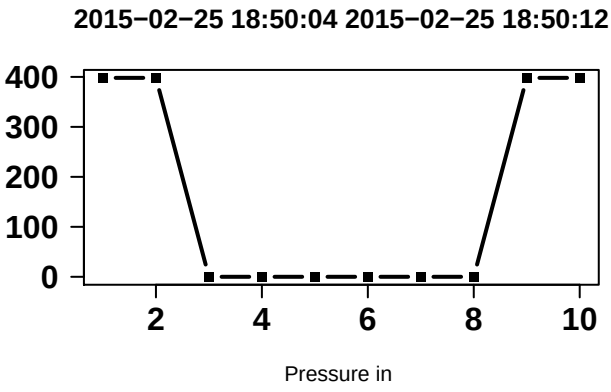

2015−02−25 12:54:30 2015−02−25 12:54:37
400
300
200
100
0
2
4
6
8
10
12
14
Pressure in

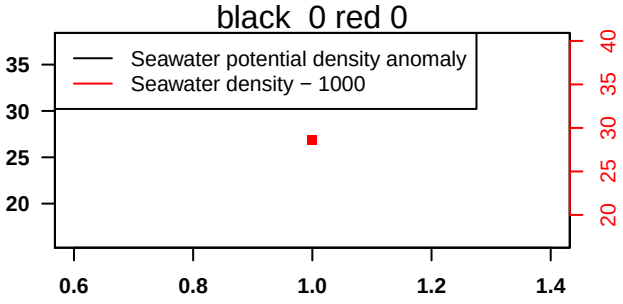

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

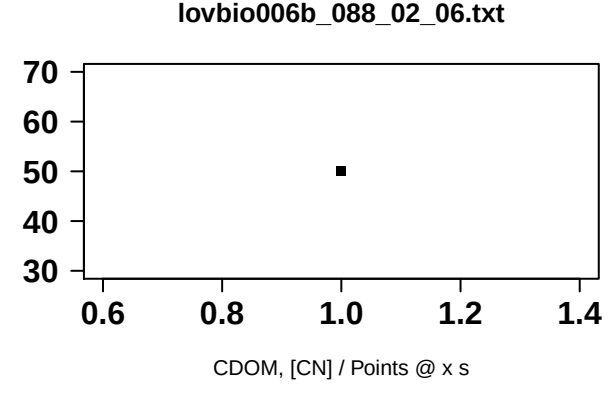

lovbio006b_088_01_06.txt
51.0
50.5
50.0
49.5
49.0
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

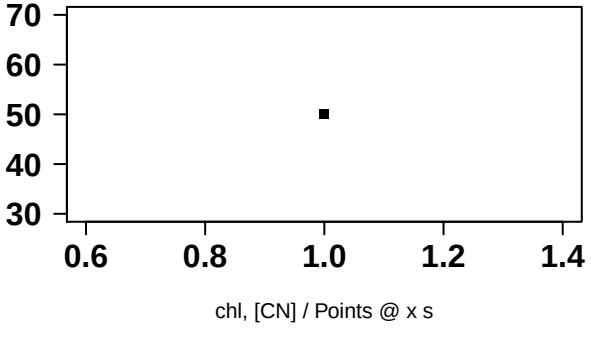

50.0
49.8
49.6
49.4
49.2
49.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

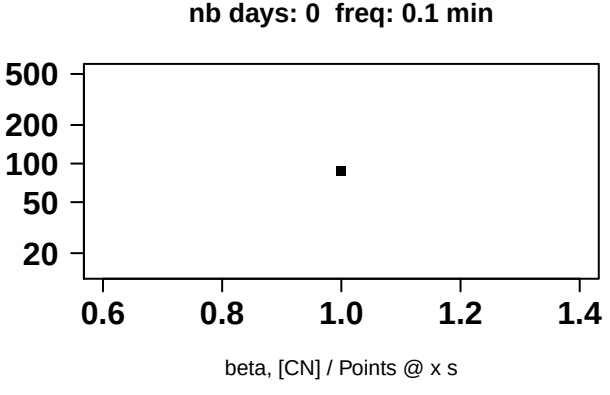

nb days: 0 freq: 0 min
88
87
86
85
84
1
2
3
4
5
6
beta, [CN] / Points @ x s

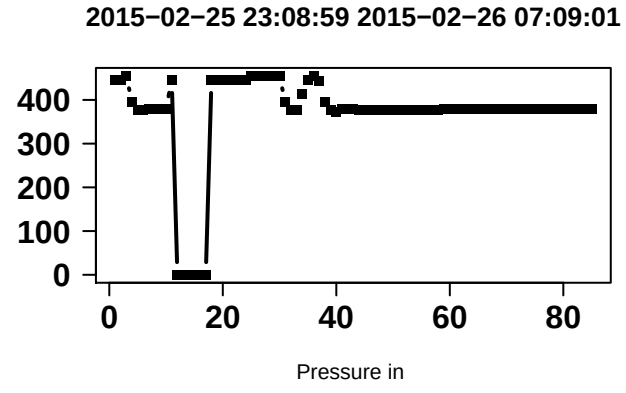

2015−02−25 18:50:04 2015−02−25 18:50:12
400
300
200
100
0
2
4
6
8
10
Pressure in

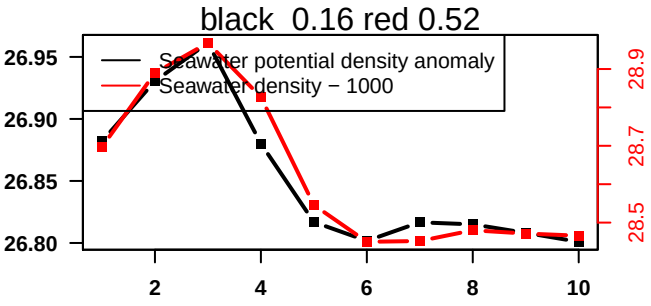

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

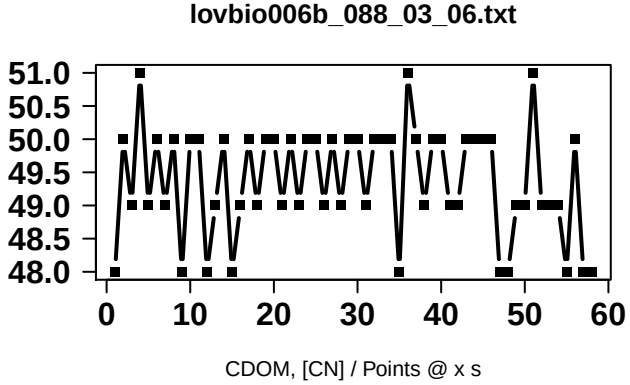

lovbio006b_088_02_06.txt
70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

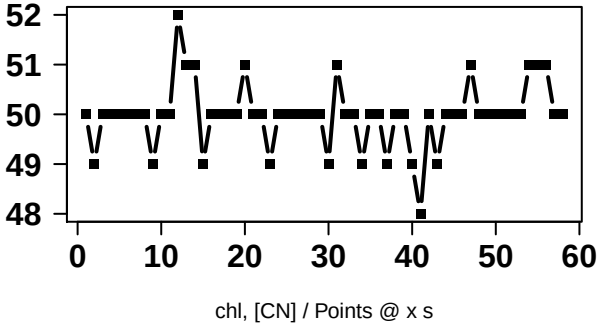

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

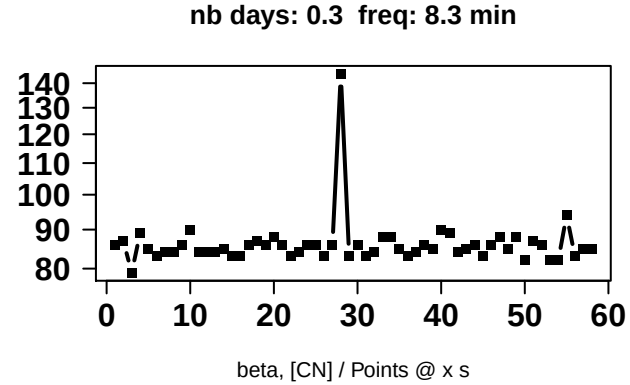

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

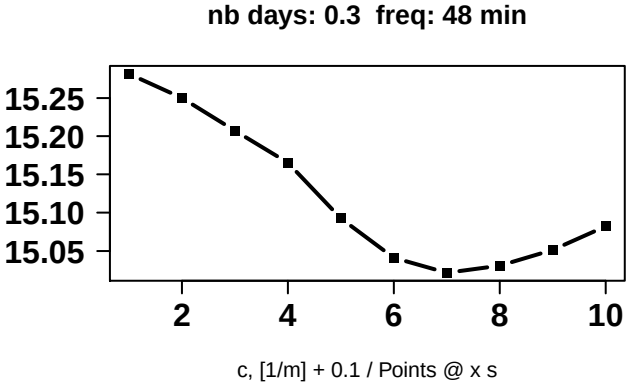

2015−02−25 23:08:59 2015−02−26 07:09:01
400
300
200
100
0
0
20
40
60
80
Pressure in

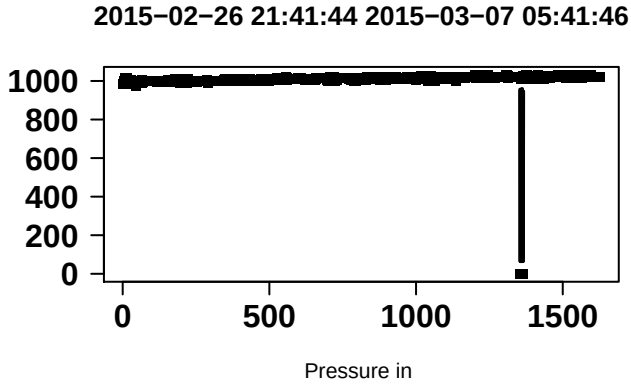

black 0.16 red 0.52
Seawater potential density anomaly
Seawater density − 1000
26.95
26.90
26.85
26.80
28.9
28.7
28.5
2
4
6
8
10

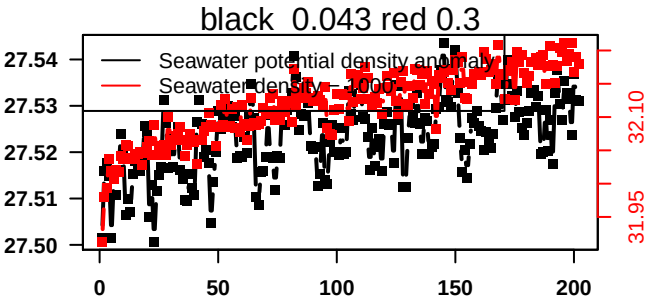

lovbio006b_088_03_06.txt
51.0
50.5
50.0
49.5
49.0
48.5
48.0
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

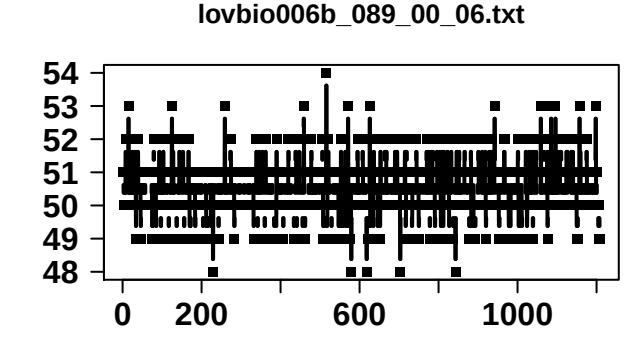

52
51
50
49
48
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

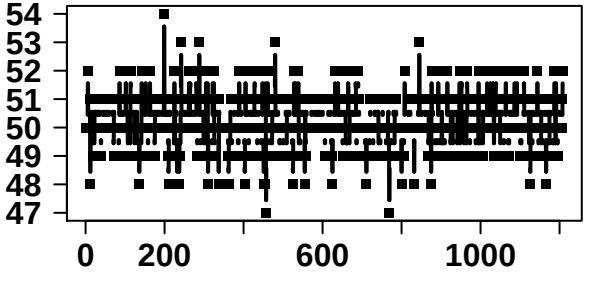

nb days: 0.3 freq: 8.3 min
140
130
120
110
100
90
80
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

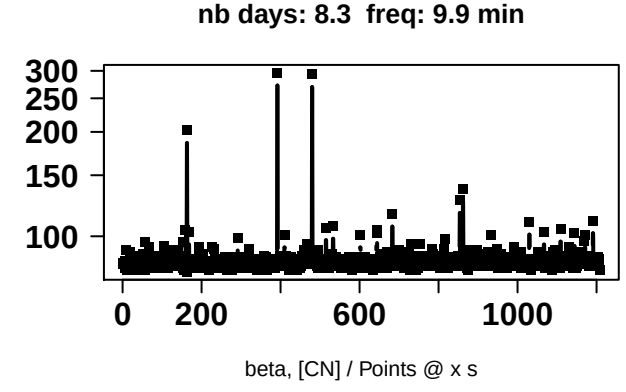

nb days: 0.3 freq: 48 min
15.25
15.20
15.15
15.10
15.05
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

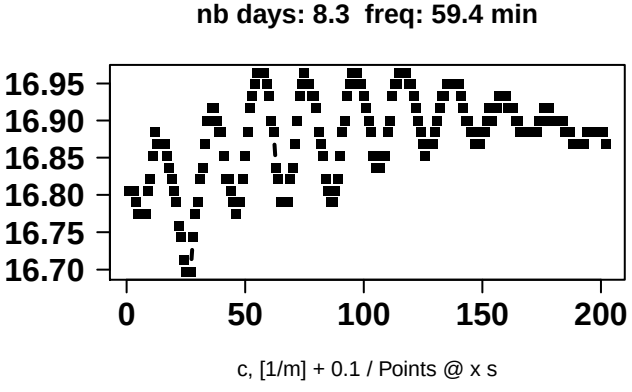

2015−02−26 21:41:44 2015−03−07 05:41:46
1000
800
600
400
200
0
0
500
1000
1500
Pressure in

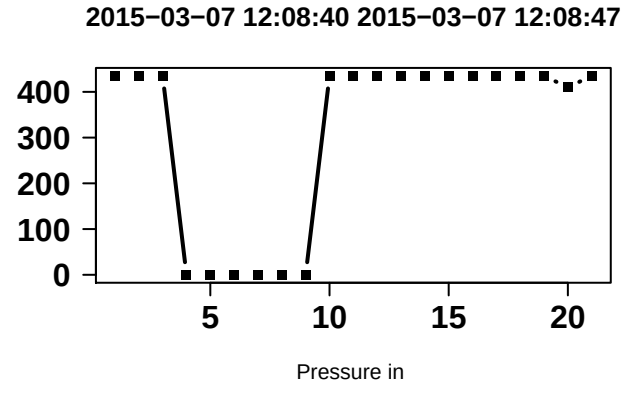

black 0.043 red 0.3
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
27.50
32.10
31.95
0
50
100
150
200

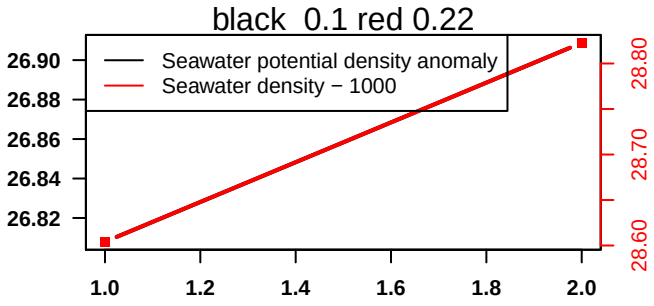

lovbio006b_089_00_06.txt
54
53
52
51
50
49
48
0
200
600
1000
CDOM, [CN] / Points @ x s

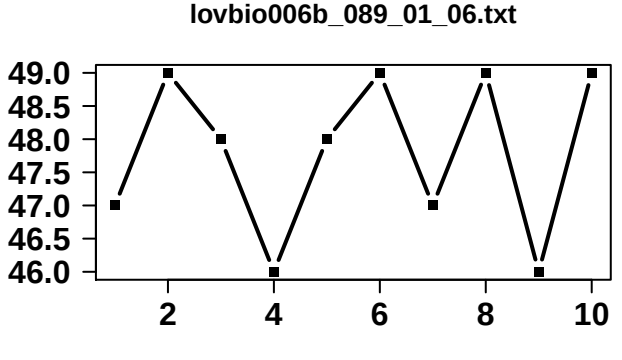

54
53
52
51
50
49
48
47
0
200
600
1000
chl, [CN] / Points @ x s

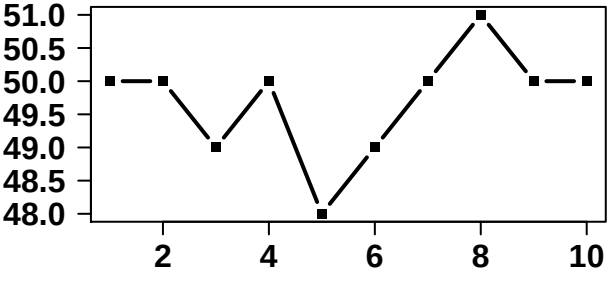

nb days: 8.3 freq: 9.9 min
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

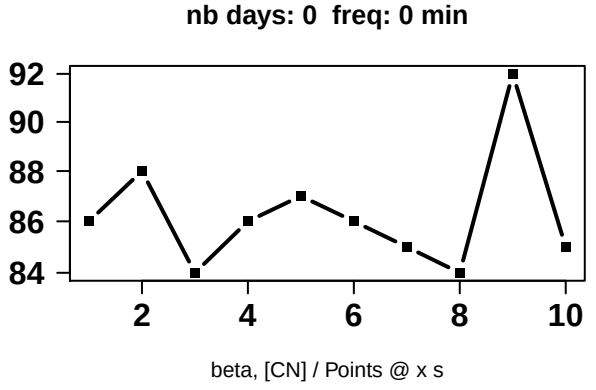

nb days: 8.3 freq: 59.4 min
16.95
16.90
16.85
16.80
16.75
16.70
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

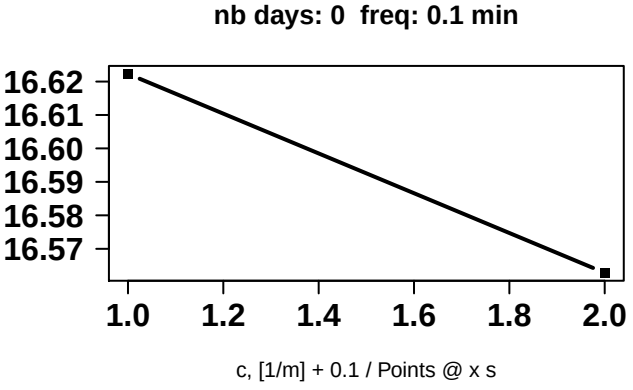

2015−03−07 12:08:40 2015−03−07 12:08:47
400
300
200
100
0
5
10
15
20
Pressure in

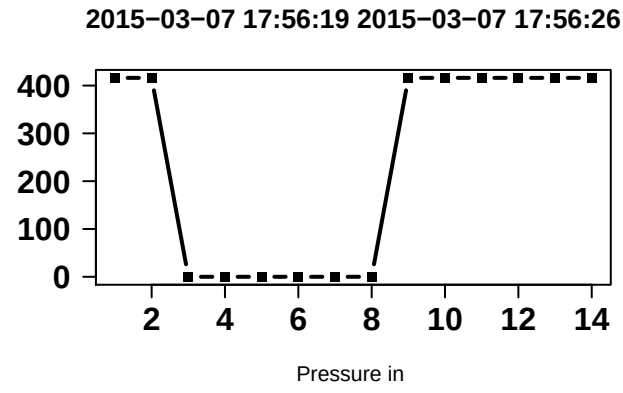

black 0.1 red 0.22
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
28.80
28.70
28.60
1.0
1.2
1.4
1.6
1.8
2.0

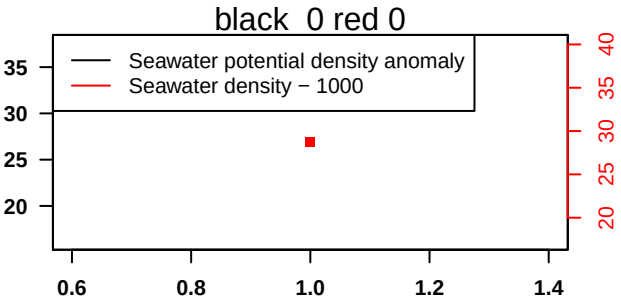

lovbio006b_089_01_06.txt
49.0
48.5
48.0
47.5
47.0
46.5
46.0
2
4
6
8
10
CDOM, [CN] / Points @ x s

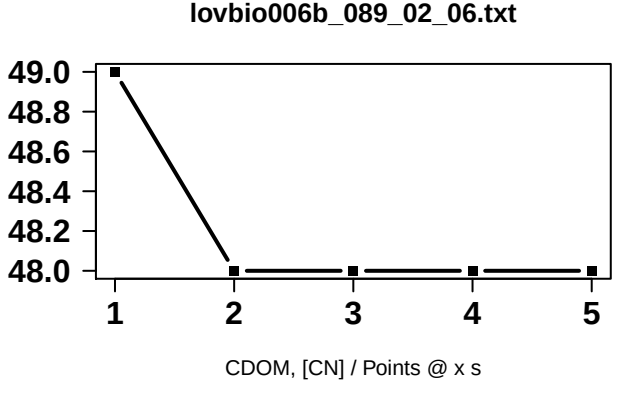

51.0
50.5
50.0
49.5
49.0
48.5
48.0
2
4
6
8
10
chl, [CN] / Points @ x s

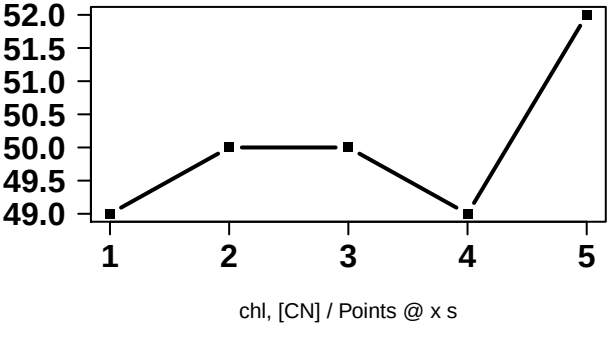

nb days: 0 freq: 0 min
92
90
88
86
84
2
4
6
8
10
beta, [CN] / Points @ x s

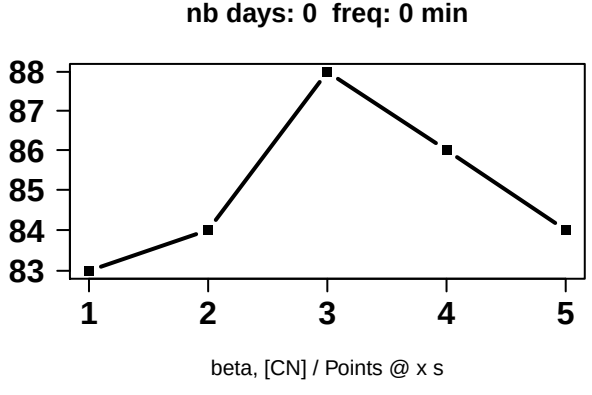

nb days: 0 freq: 0.1 min
16.62
16.61
16.60
16.59
16.58
16.57
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

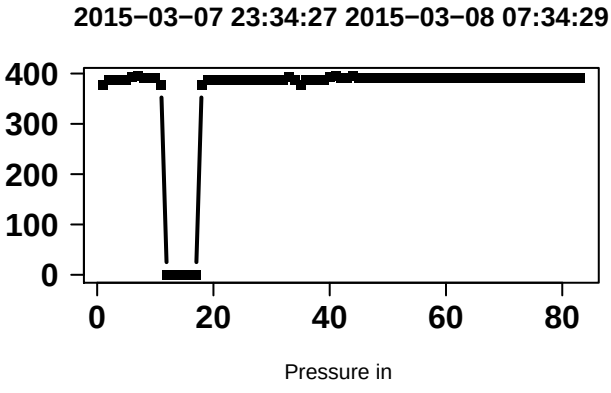

2015−03−07 17:56:19 2015−03−07 17:56:26
400
300
200
100
0
2
4
6
8
10
12
14
Pressure in

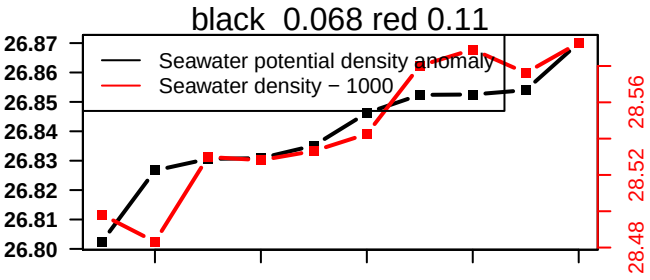

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

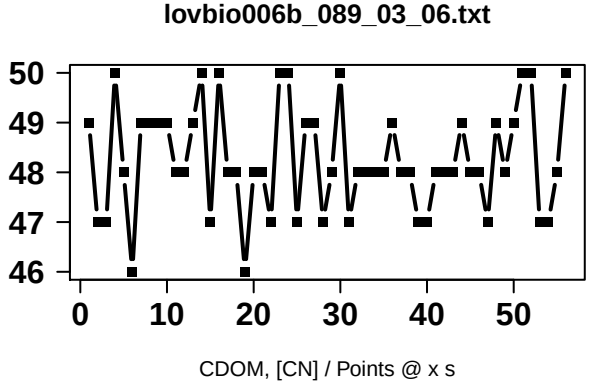

lovbio006b_089_02_06.txt
49.0
48.8
48.6
48.4
48.2
48.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

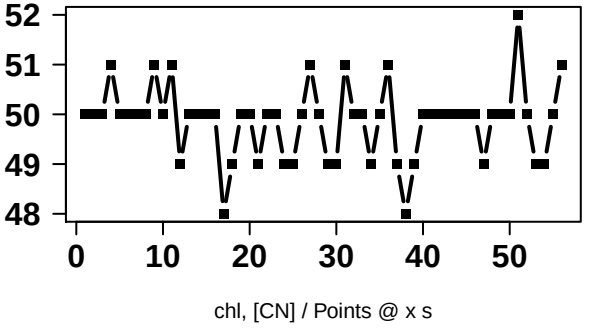

52.0
51.5
51.0
50.5
50.0
49.5
49.0
1
2
3
4
5
chl, [CN] / Points @ x s

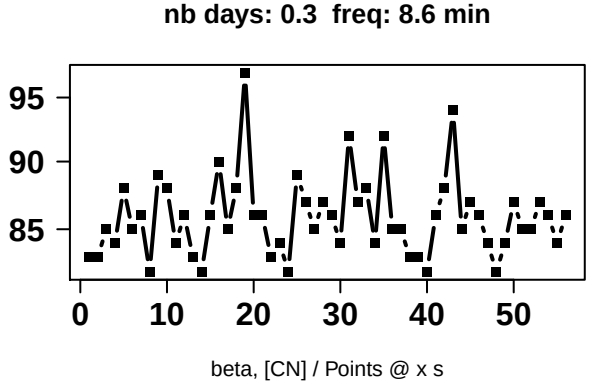

nb days: 0 freq: 0 min
88
87
86
85
84
83
1
2
3
4
5
beta, [CN] / Points @ x s

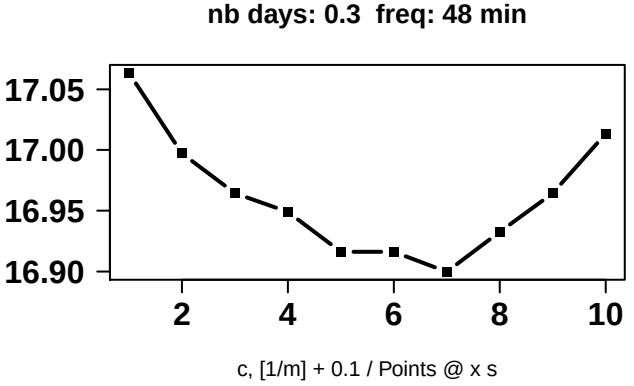

2015−03−07 23:34:27 2015−03−08 07:34:29
400
300
200
100
0
0
20
40
60
80
Pressure in

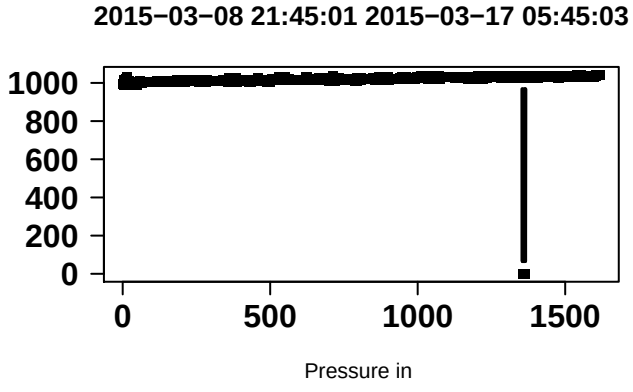

black 0.068 red 0.11
Seawater potential density anomaly
Seawater density − 1000
26.87
26.86
26.85
26.84
26.83
26.82
26.81
26.80
28.56
28.52
28.48
2
4
6
8
10

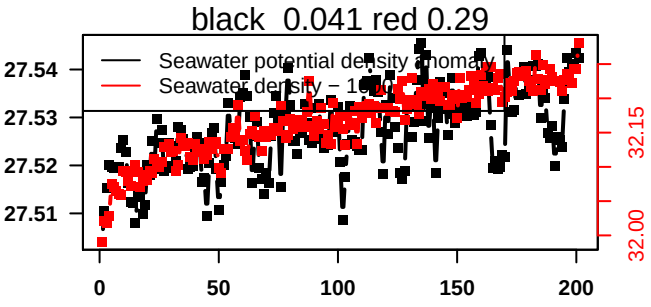

lovbio006b_089_03_06.txt
50
49
48
47
46
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

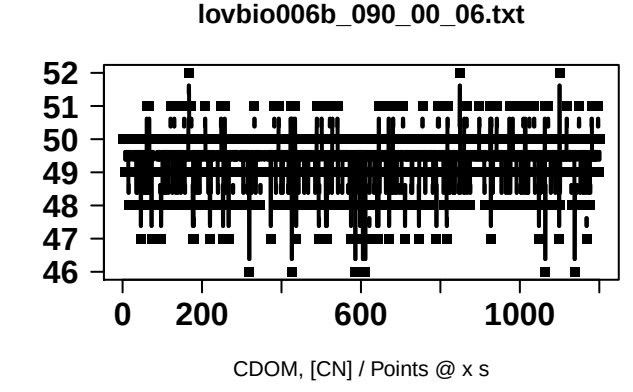

52
51
50
49
48
0
10
20
30
40
50
chl, [CN] / Points @ x s

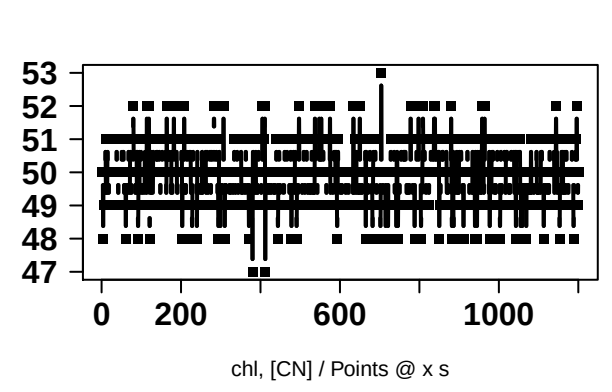

nb days: 0.3 freq: 8.6 min
95
90
85
0
10
20
30
40
50
beta, [CN] / Points @ x s

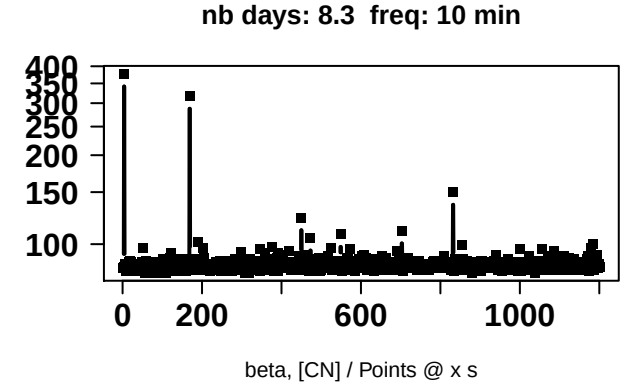

nb days: 0.3 freq: 48 min
17.05
17.00
16.95
16.90
2
4
6
8
10
c, [1/m] + 0.1 / Points @ x s

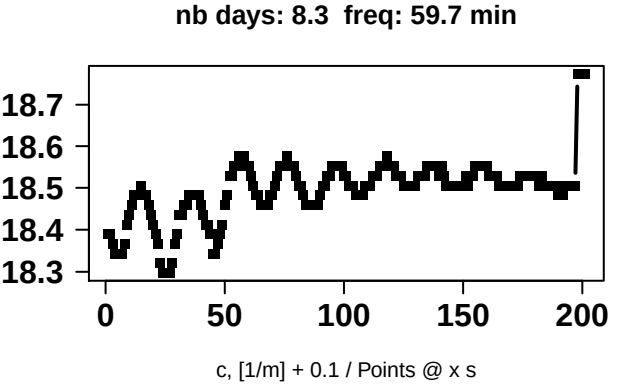

2015−03−08 21:45:01 2015−03−17 05:45:03
1000
800
600
400
200
0
0
500
1000
1500
Pressure in

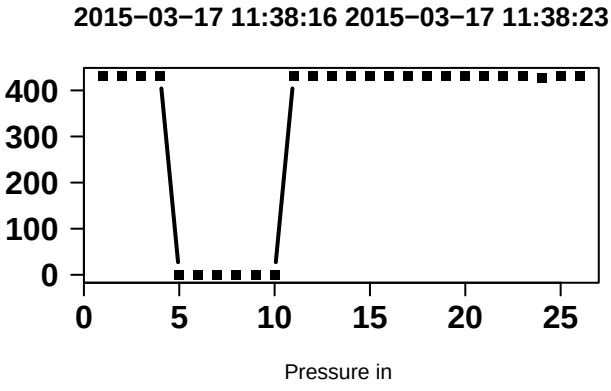

black 0.041 red 0.29
Seawater potential density anomaly
Seawater density − 1000
27.54
27.53
27.52
27.51
32.15
32.00
0
50
100
150
200

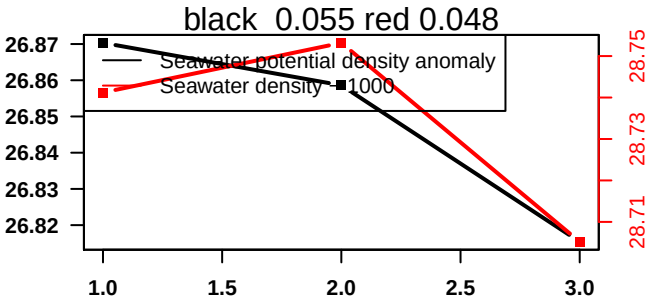

lovbio006b_090_00_06.txt
52
51
50
49
48
47
46
0
200
600
1000
CDOM, [CN] / Points @ x s

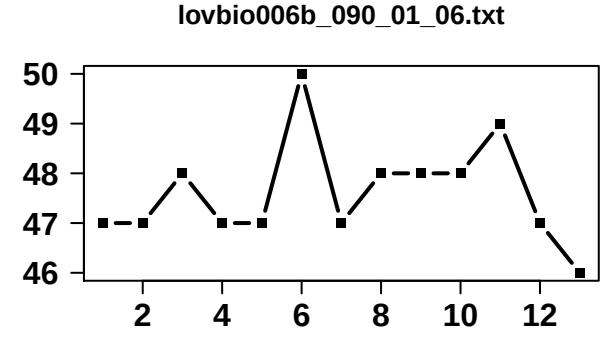

53
52
51
50
49
48
47
0
200
600
1000
chl, [CN] / Points @ x s

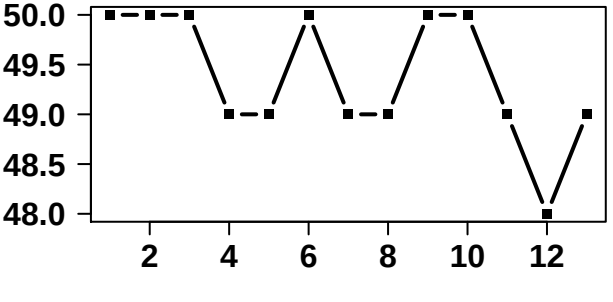

nb days: 8.3 freq: 10 min
400
350
300
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

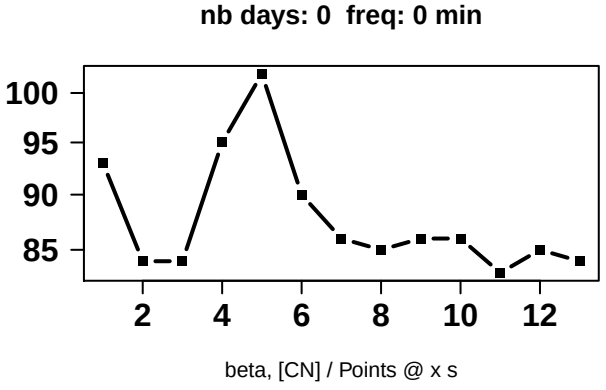

nb days: 8.3 freq: 59.7 min
18.7
18.6
18.5
18.4
18.3
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

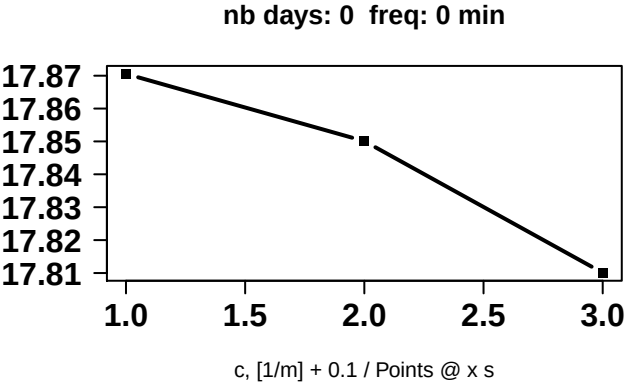

2015−03−17 11:38:16 2015−03−17 11:38:23
400
300
200
100
0
0
5
10
15
20
25
Pressure in

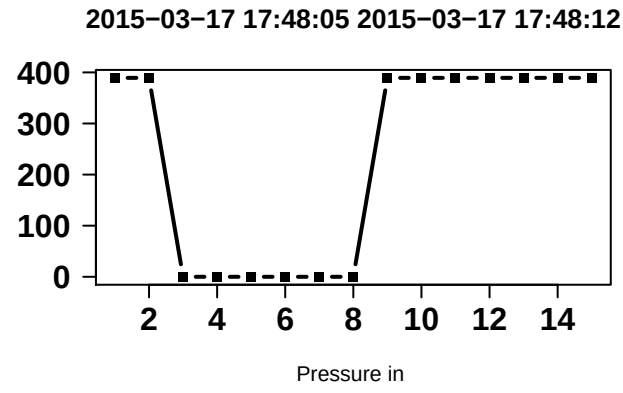

black 0.055 red 0.048
Seawater potential density anomaly
Seawater density −1000
26.87
26.86
26.85
26.84
26.83
26.82
28.75
28.73
28.71
1.0
1.5
2.0
2.5
3.0

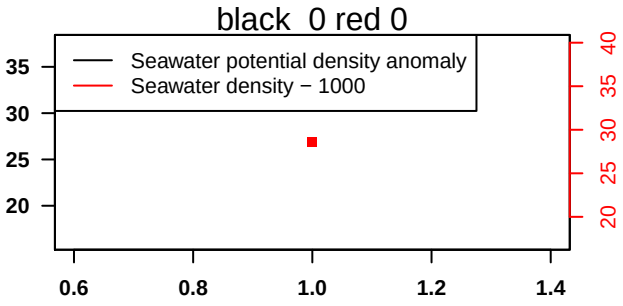

lovbio006b_090_01_06.txt
50
49
48
47
46
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

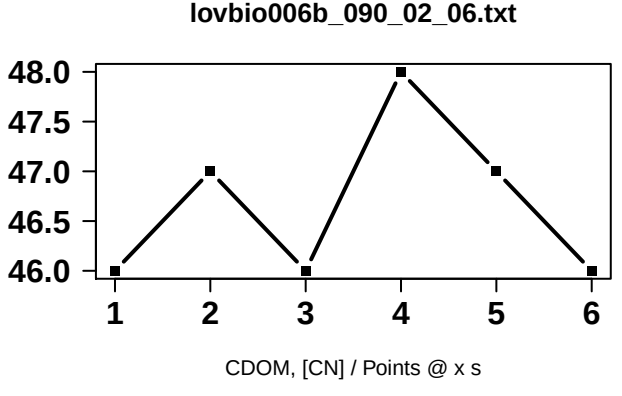

50.0
49.5
49.0
48.5
48.0
2
4
6
8
10
12
chl, [CN] / Points @ x s

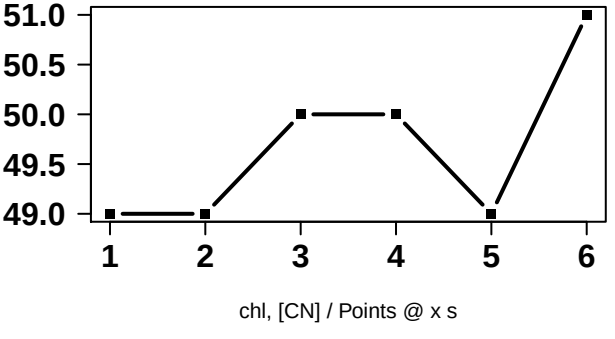

nb days: 0 freq: 0 min
100
95
90
85
2
4
6
8
10
12
beta, [CN] / Points @ x s

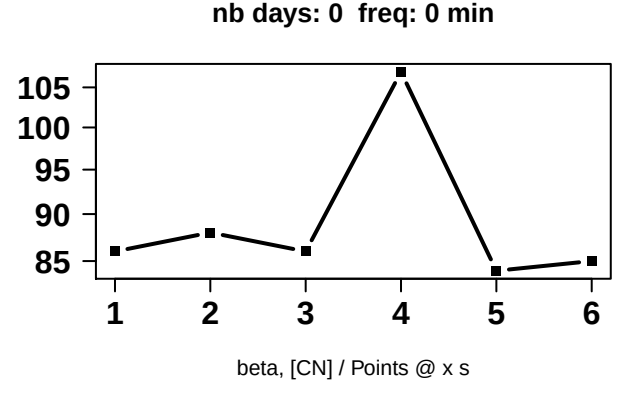

nb days: 0 freq: 0 min
17.87
17.86
17.85
17.84
17.83
17.82
17.81
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

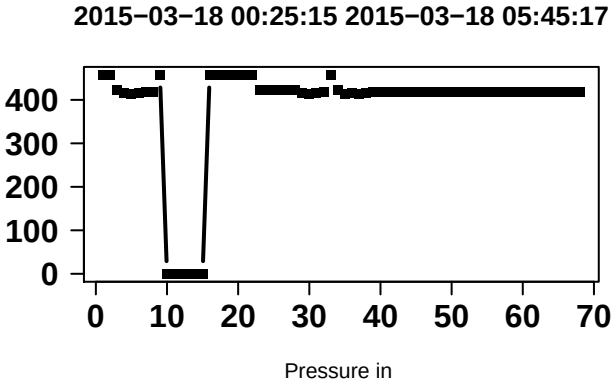

2015−03−17 17:48:05 2015−03−17 17:48:12
400
300
200
100
0
2
4
6
8
10
12
14
Pressure in

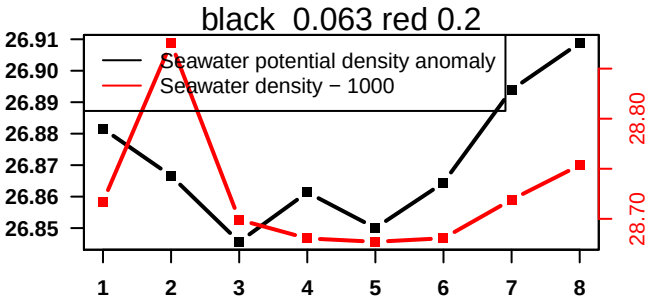

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

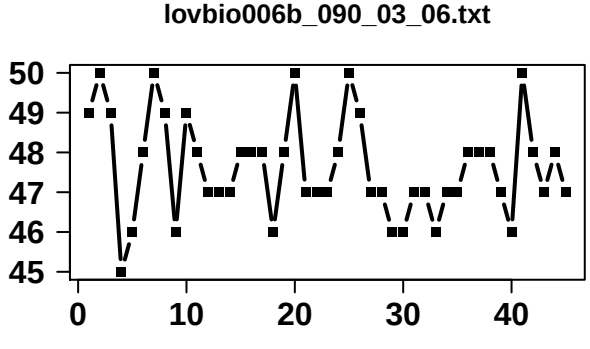

lovbio006b_090_02_06.txt
48.0
47.5
47.0
46.5
46.0
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

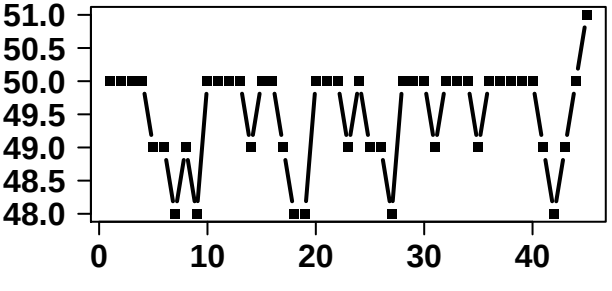

51.0
50.5
50.0
49.5
49.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

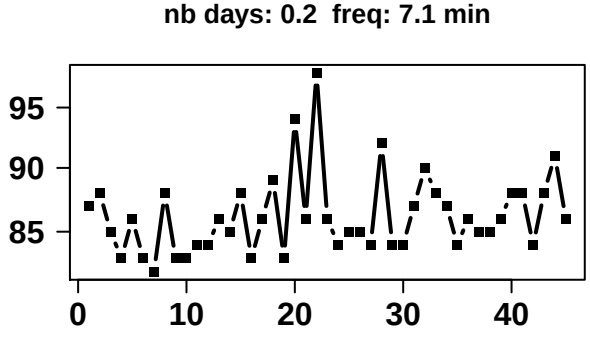

nb days: 0 freq: 0 min
105
100
95
90
85
1
2
3
4
5
6
beta, [CN] / Points @ x s

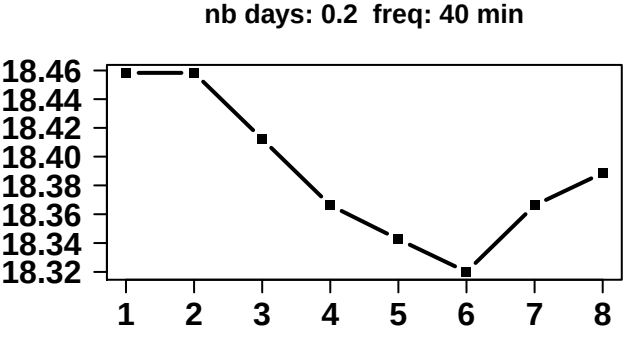

2015−03−18 00:25:15 2015−03−18 05:45:17
400
300
200
100
0
0 10 20 30 40 50 60 70
Pressure in

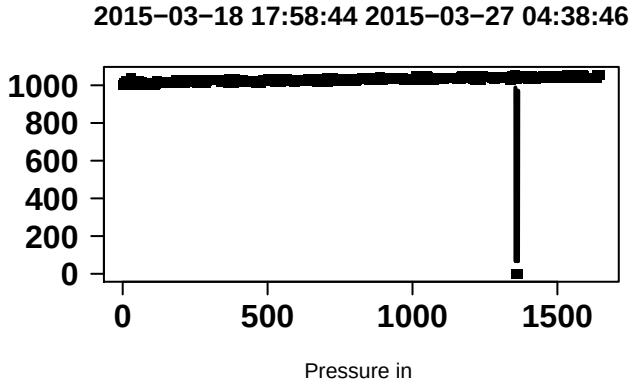

black 0.063 red 0.2
Seawater potential density anomaly
Seawater density − 1000
26.91
26.90
26.89
26.88
26.87
26.86
26.85
28.80
28.70
1 2 3 4 5 6 7 8

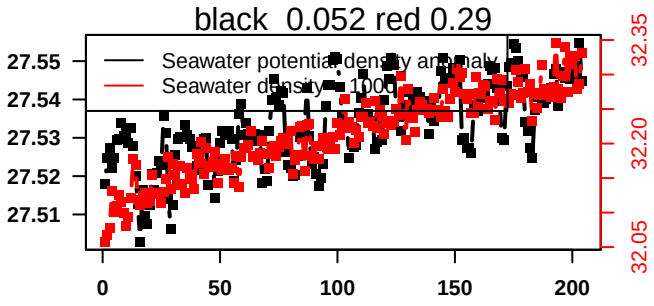

lovbio006b_090_03_06.txt
50
49
48
47
46
45
0 10 20 30 40
CDOM, [CN] / Points @ x s

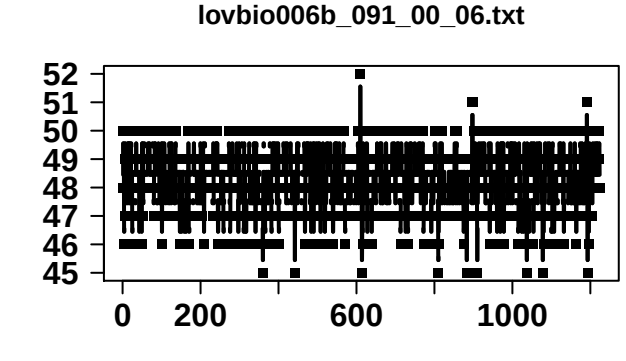

51.0
50.5
50.0
49.5
49.0
48.5
48.0
0 10 20 30 40
chl, [CN] / Points @ x s

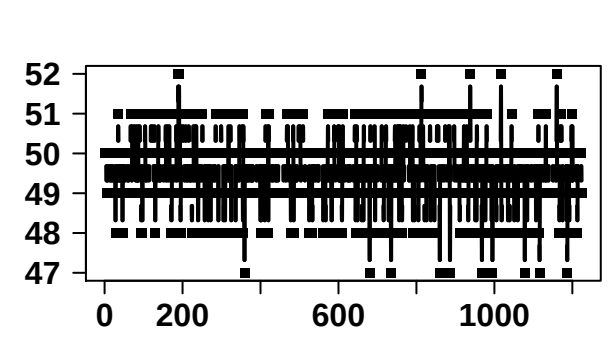

nb days: 0.2 freq: 7.1 min
95
90
85
0 10 20 30 40
beta, [CN] / Points @ x s

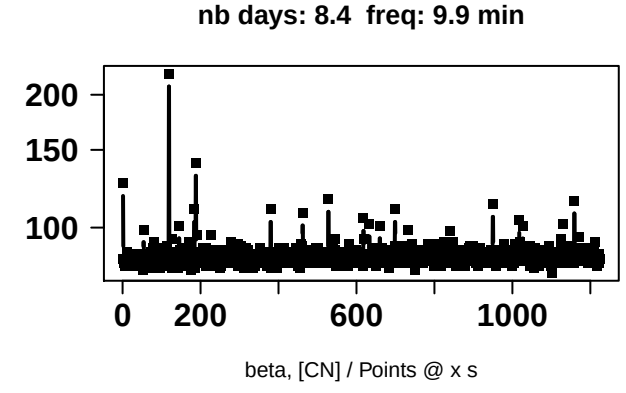

nb days: 0.2 freq: 40 min
18.46
18.44
18.42
18.40
18.38
18.36
18.34
18.32
1 2 3 4 5 6 7 8
c, [1/m] + 0.1 / Points @ x s

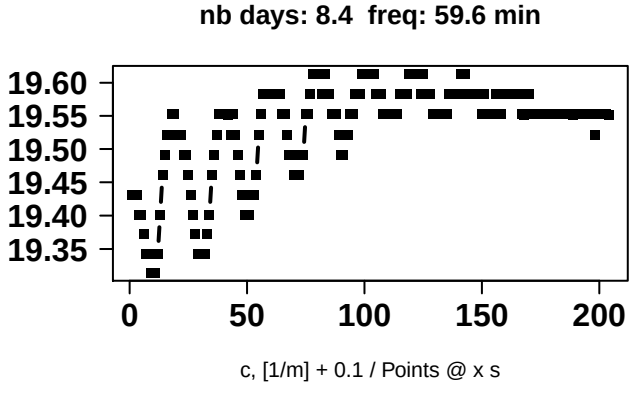

2015−03−18 17:58:44 2015−03−27 04:38:46
1000
800
600
400
200
0
0
500
1000
1500
Pressure in

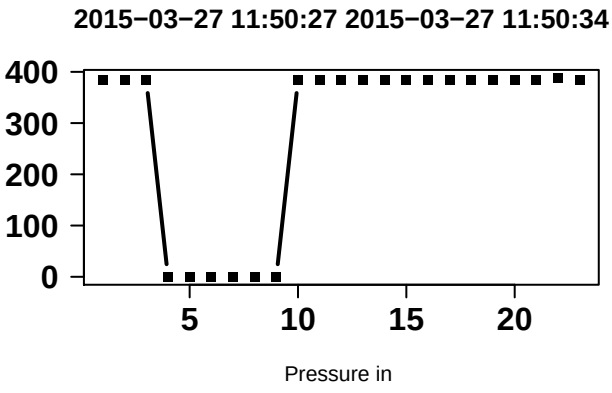

black 0.052 red 0.29
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
32.35
32.20
32.05
0
50
100
150
200

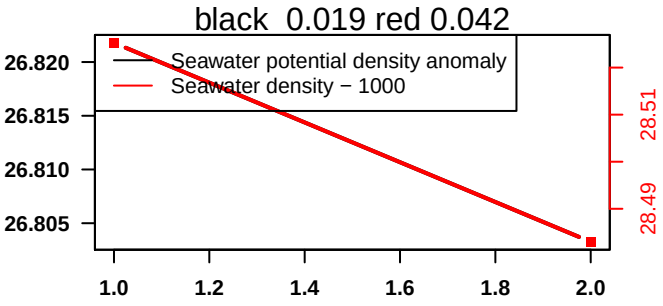

lovbio006b_091_00_06.txt
52
51
50
49
48
47
46
45
0
200
600
1000
CDOM, [CN] / Points @ x s

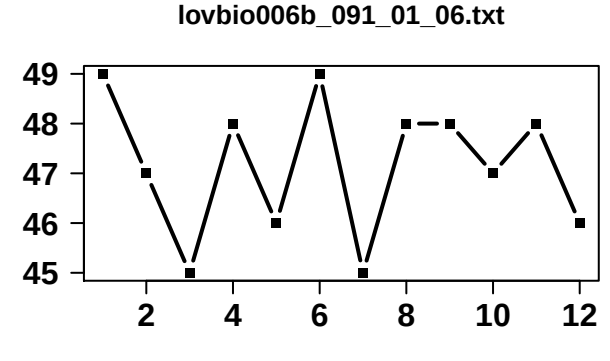

52
51
50
49
48
47
0
200
600
1000
chl, [CN] / Points @ x s

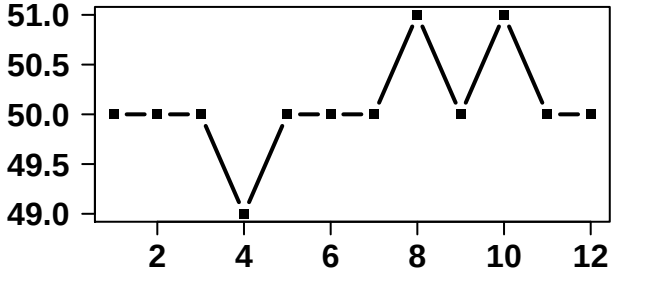

nb days: 8.4 freq: 9.9 min
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

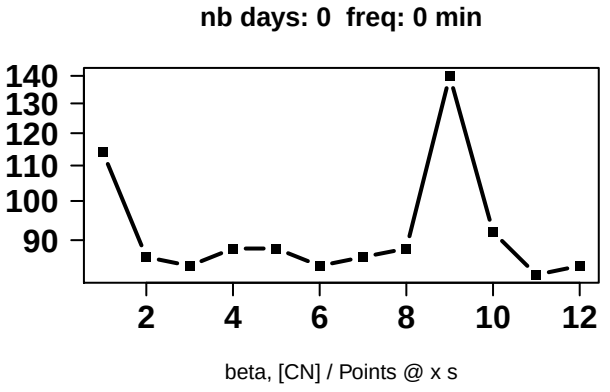

nb days: 8.4 freq: 59.6 min
19.60
19.55
19.50
19.45
19.40
19.35
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

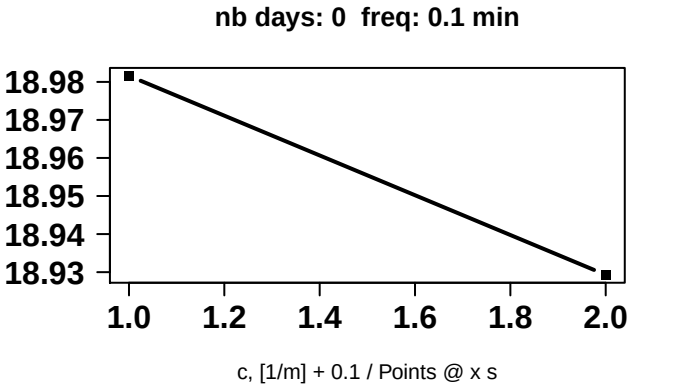

2015−03−27 11:50:27 2015−03−27 11:50:34
400
300
200
100
0
5
10
15
20
Pressure in

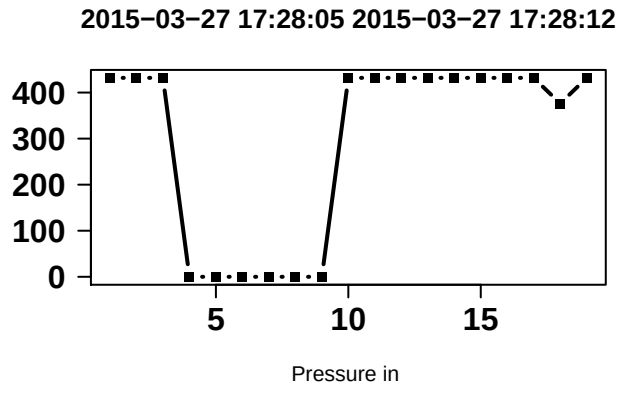

black 0.019 red 0.042
Seawater potential density anomaly
Seawater density − 1000
26.820
26.815
26.810
26.805
28.51
28.49
1.0
1.2
1.4
1.6
1.8
2.0

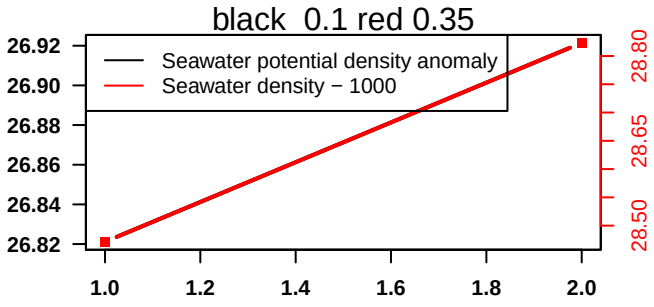

lovbio006b_091_01_06.txt
49
48
47
46
45
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

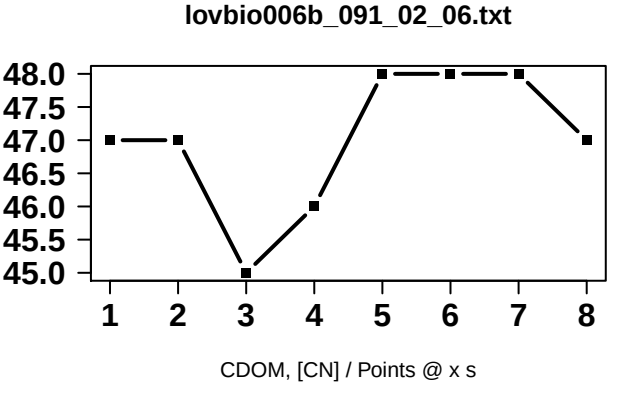

51.0
50.5
50.0
49.5
49.0
2
4
6
8
10
12
chl, [CN] / Points @ x s

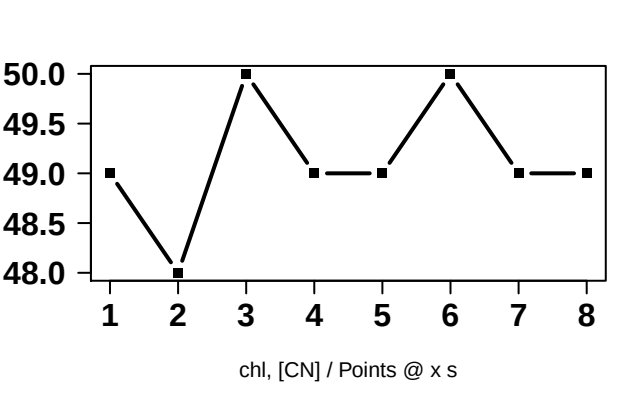

nb days: 0 freq: 0 min
140
130
120
110
100
90
2
4
6
8
10
12
beta, [CN] / Points @ x s

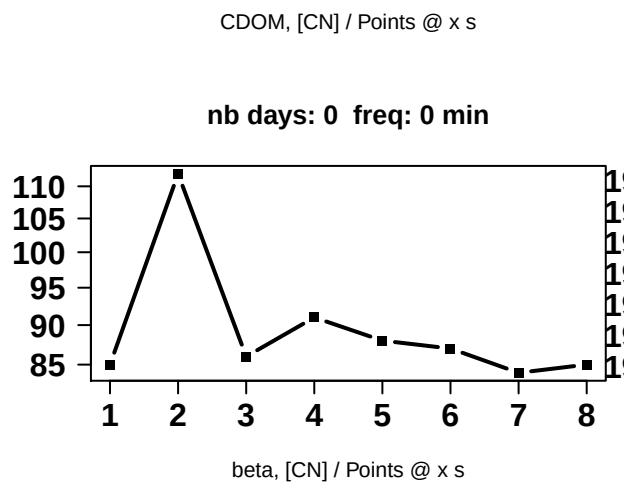

nb days: 0 freq: 0.1 min
18.98
18.97
18.96
18.95
18.94
18.93
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

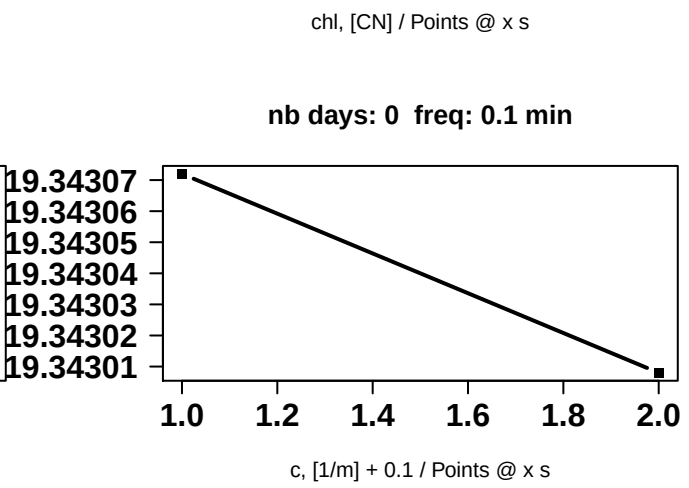

2015−03−27 17:28:05 2015−03−27 17:28:12
400
300
200
100
0
5
10
15
Pressure in

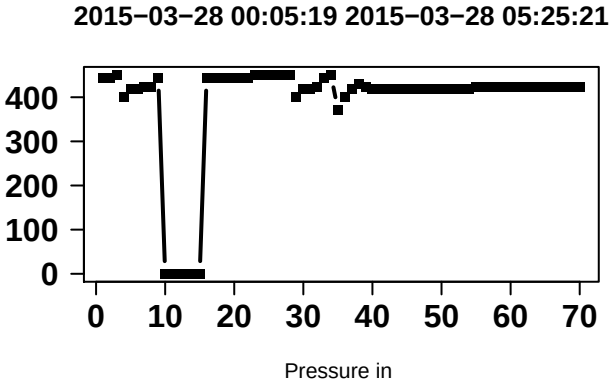

black 0.1 red 0.35
Seawater potential density anomaly
Seawater density − 1000
26.92
26.90
26.88
26.86
26.84
26.82
28.80
28.65
28.50
1.0
1.2
1.4
1.6
1.8
2.0

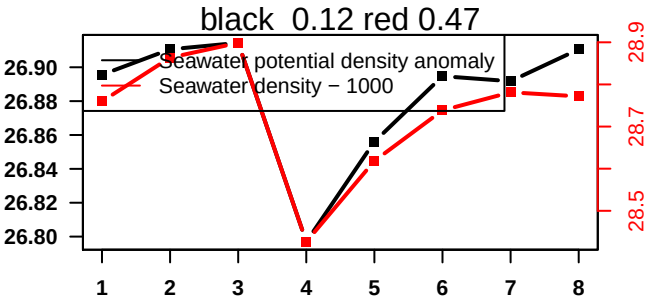

lovbio006b_091_02_06.txt
48.0
47.5
47.0
46.5
46.0
45.5
45.0
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

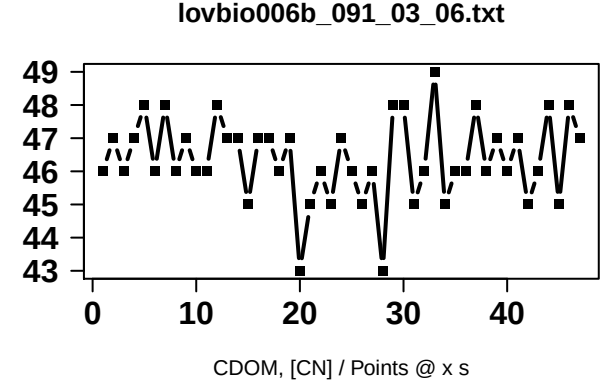

50.0
49.5
49.0
48.5
48.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

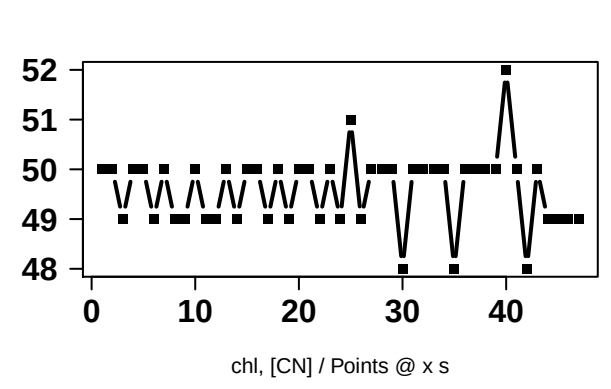

nb days: 0 freq: 0 min
110
105
100
95
90
85
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

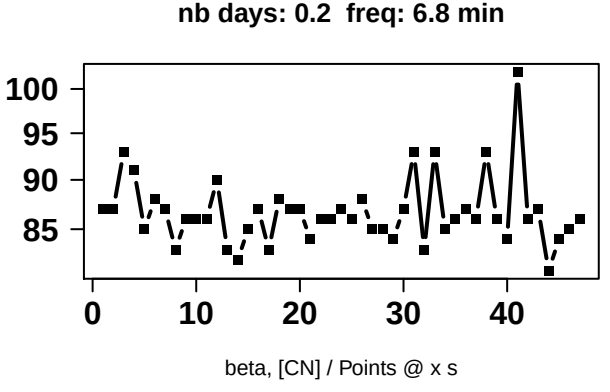

nb days: 0 freq: 0.1 min
19.34307
19.34306
19.34305
19.34304
19.34303
19.34302
19.34301
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

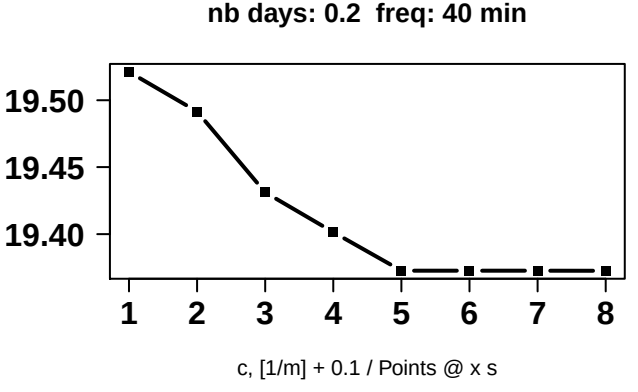

2015−03−28 00:05:19 2015−03−28 05:25:21
400
300
200
100
0
0 10 20 30 40 50 60 70
Pressure in

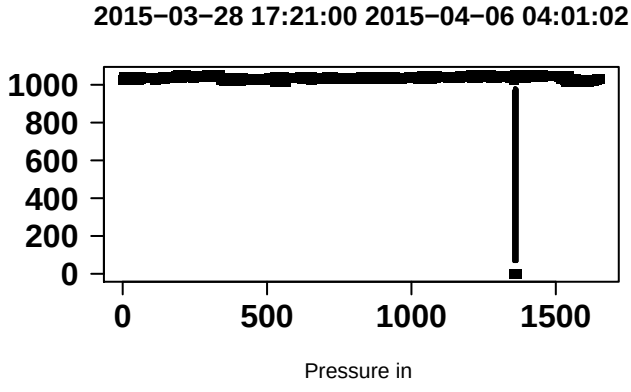

black 0.12 red 0.47
Seawater potential density anomaly
Seawater density − 1000
26.90
26.88
26.86
26.84
26.82
26.80
28.9
28.7
28.5
1 2 3 4 5 6 7 8

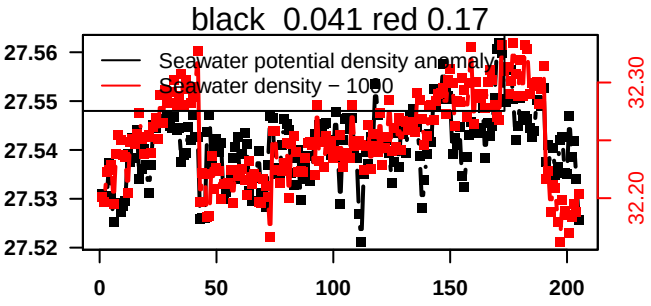

lovbio006b_091_03_06.txt
49
48
47
46
45
44
43
0 10 20 30 40
CDOM, [CN] / Points @ x s

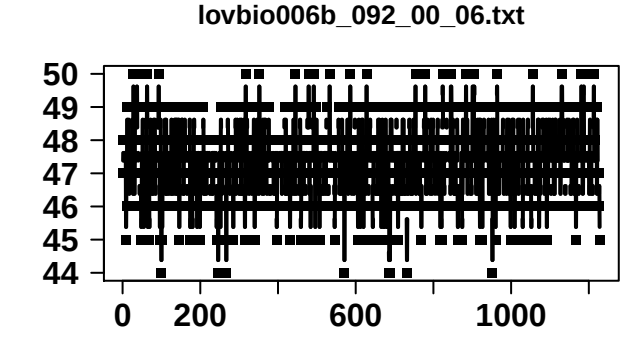

52
51
50
49
48
0 10 20 30 40
chl, [CN] / Points @ x s

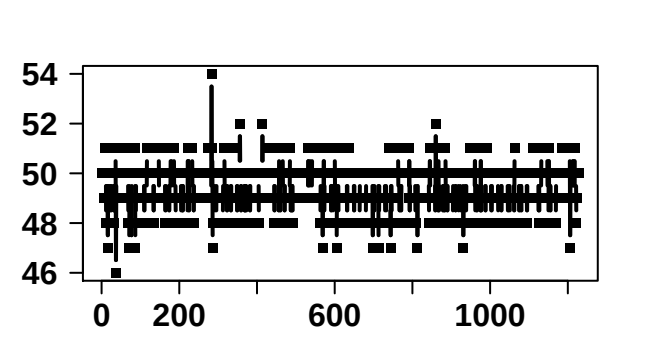

nb days: 0.2 freq: 6.8 min
100
95
90
85
0 10 20 30 40
beta, [CN] / Points @ x s

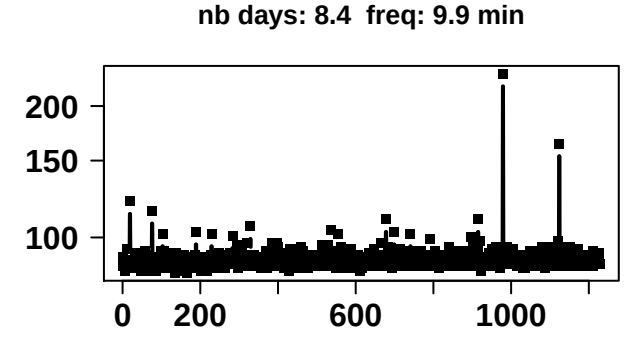

nb days: 0.2 freq: 40 min
19.50
19.45
19.40
1 2 3 4 5 6 7 8
c, [1/m] + 0.1 / Points @ x s

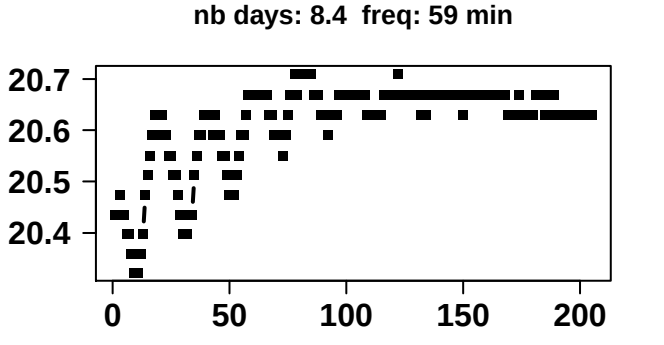

2015−03−28 17:21:00 2015−04−06 04:01:02
1000
800
600
400
200
0
0
500
1000
1500
Pressure in

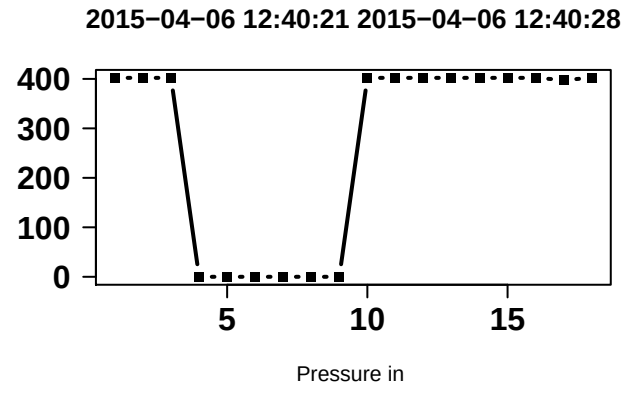

black 0.041 red 0.17
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
32.30
32.20
0
50
100
150
200

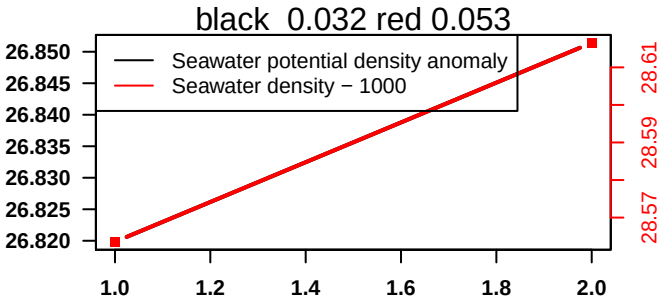

lovbio006b_092_00_06.txt
50
49
48
47
46
45
44
0
200
600
1000
CDOM, [CN] / Points @ x s

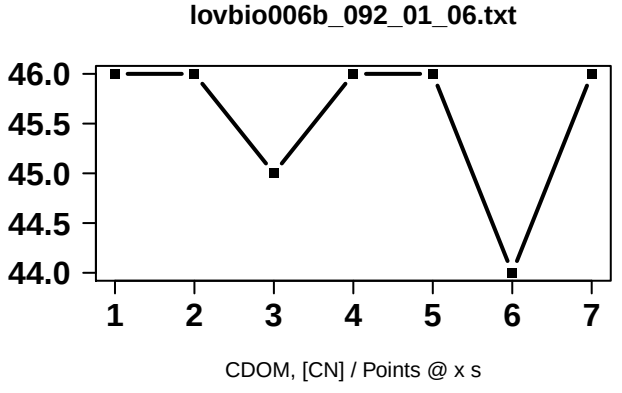

54
52
50
48
46
0
200
600
1000
chl, [CN] / Points @ x s

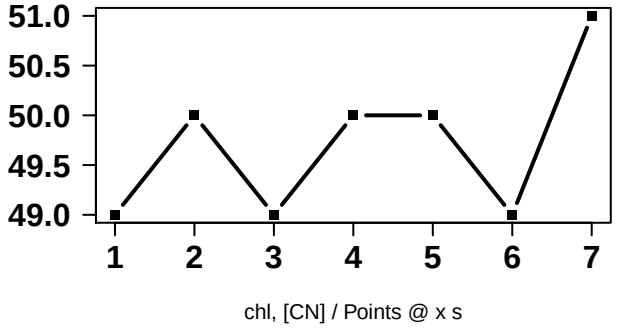

nb days: 8.4 freq: 9.9 min
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

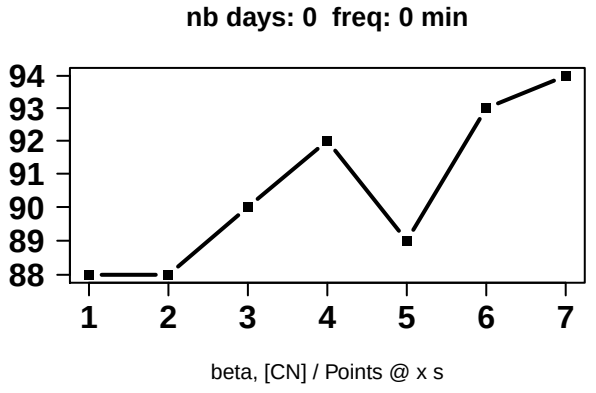

nb days: 8.4 freq: 59 min
20.7
20.6
20.5
20.4
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

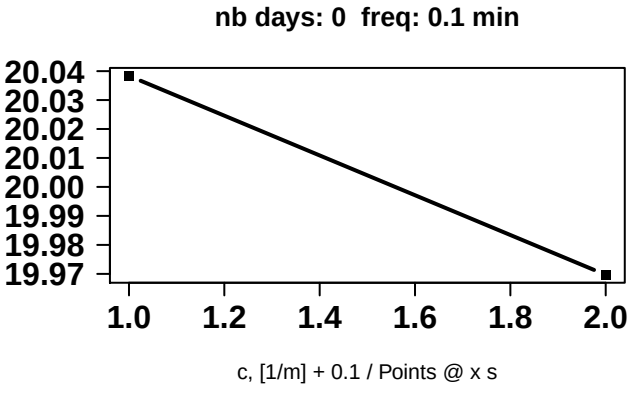

2015−04−06 12:40:21 2015−04−06 12:40:28
400
300
200
100
0
5
10
15
Pressure in

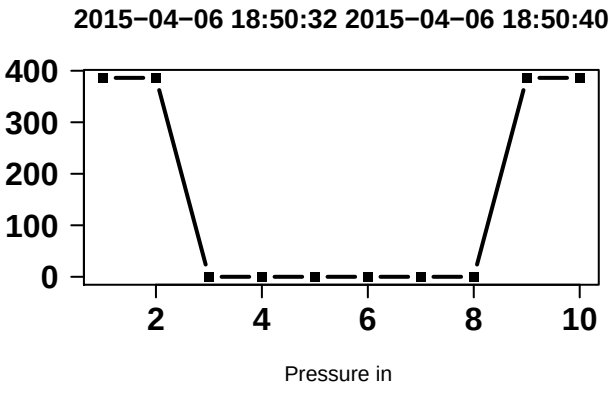

black 0.032 red 0.053
Seawater potential density anomaly
Seawater density − 1000
26.850
26.845
26.840
26.835
26.830
26.825
26.820
28.61
28.59
28.57
1.0
1.2
1.4
1.6
1.8
2.0

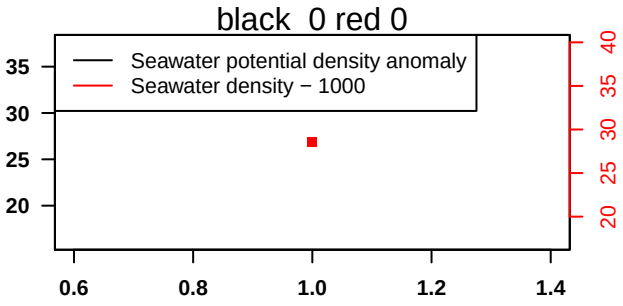

lovbio006b_092_01_06.txt
46.0
45.5
45.0
44.5
44.0
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

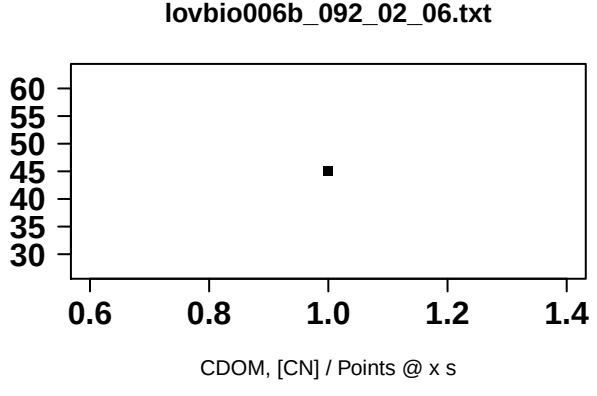

51.0
50.5
50.0
49.5
49.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

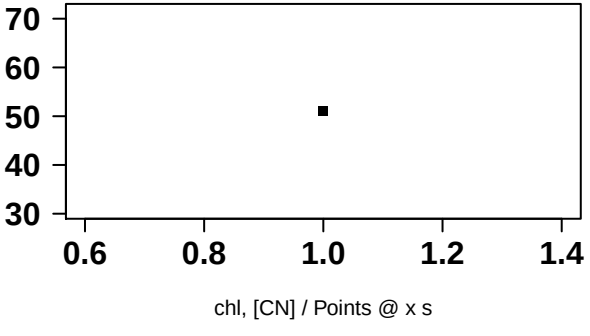

nb days: 0 freq: 0 min
94
93
92
91
90
89
88
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

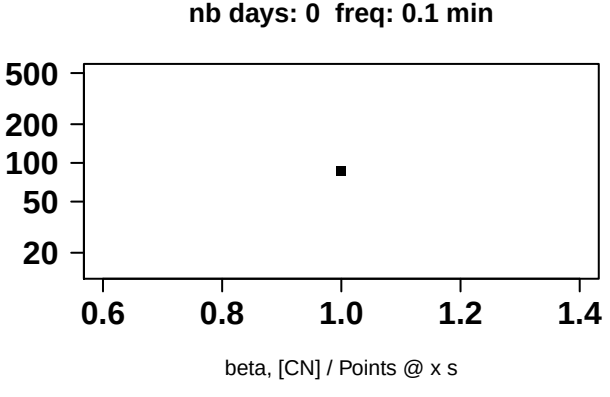

nb days: 0 freq: 0.1 min
20.04
20.03
20.02
20.01
20.00
19.99
19.98
19.97
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

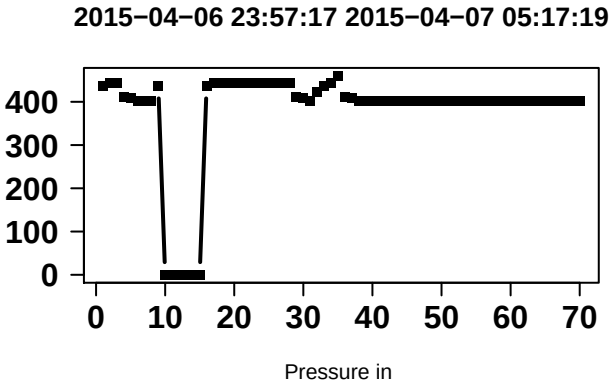

2015−04−06 18:50:32 2015−04−06 18:50:40
400
300
200
100
0
2
4
6
8
10
Pressure in

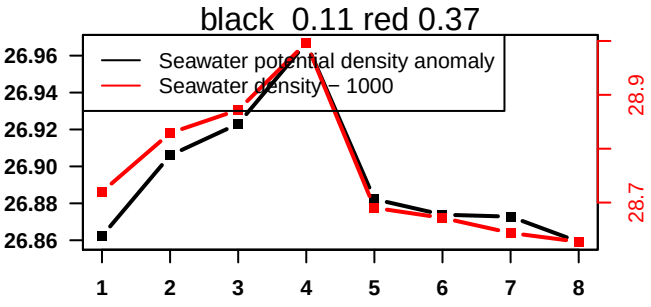

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

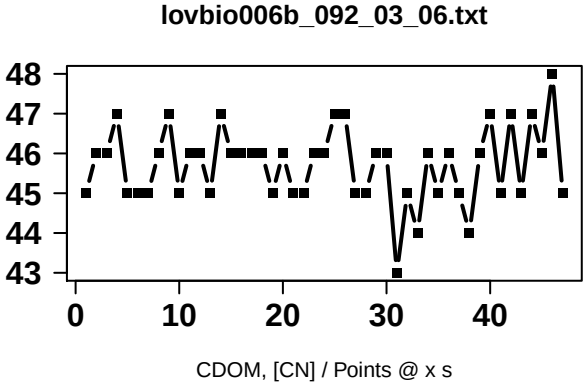

lovbio006b_092_02_06.txt
60
55
50
45
40
35
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

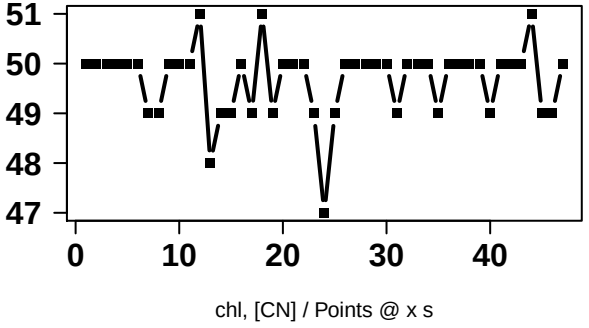

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

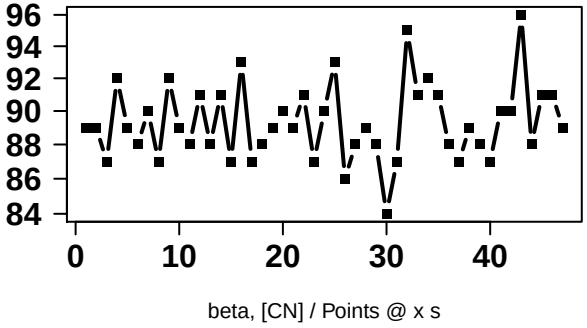

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

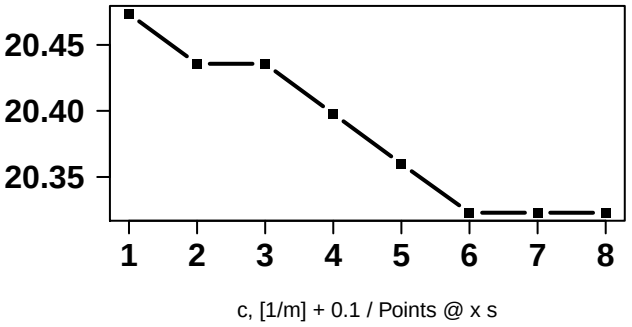

2015−04−06 23:57:17 2015−04−07 05:17:19
400
300
200
100
0
0 10 20 30 40 50 60 70
Pressure in

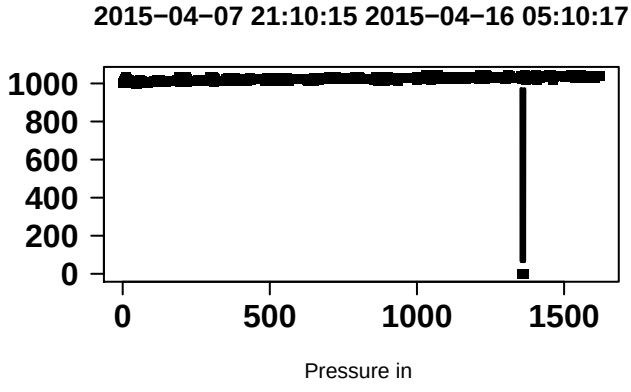

black 0.11 red 0.37
Seawater potential density anomaly
Seawater density − 1000
26.96
26.94
26.92
26.90
26.88
26.86
28.9
28.7
1 2 3 4 5 6 7 8

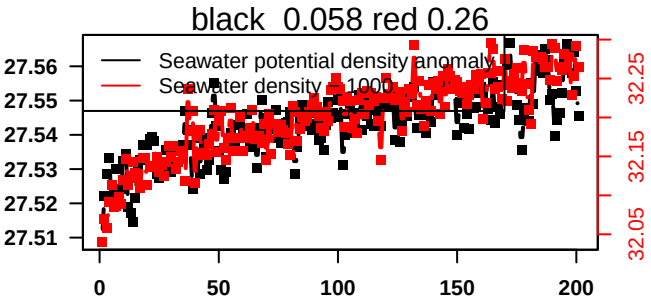

lovbio006b_092_03_06.txt
48
47
46
45
44
43
0 10 20 30 40
CDOM, [CN] / Points @ x s

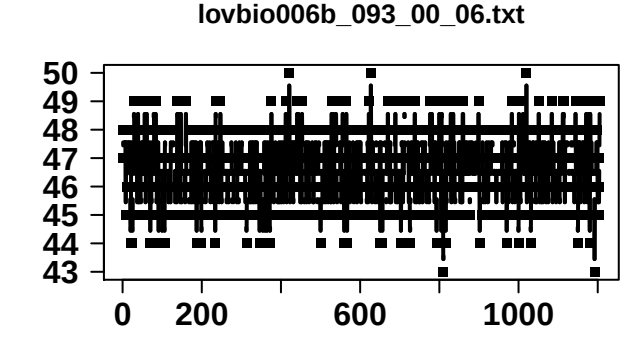

51
50
49
48
47
0 10 20 30 40
chl, [CN] / Points @ x s

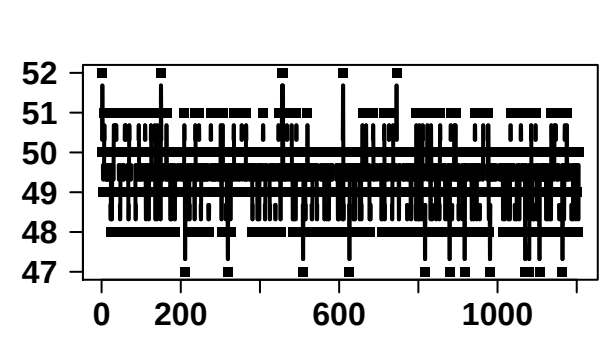

nb days: 0.2 freq: 6.8 min
96
94
92
90
88
86
84
0 10 20 30 40
beta, [CN] / Points @ x s

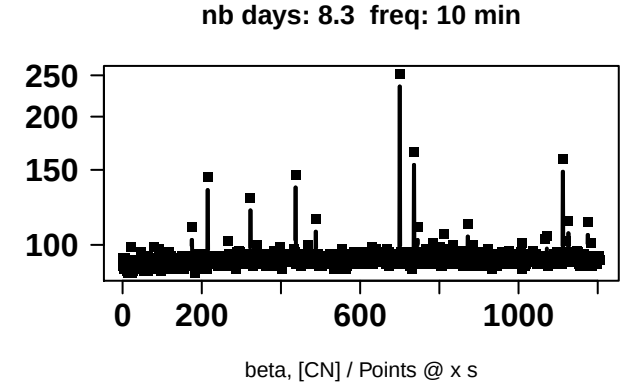

nb days: 0.2 freq: 40 min
20.45
20.40
20.35
1 2 3 4 5 6 7 8
c, [1/m] + 0.1 / Points @ x s

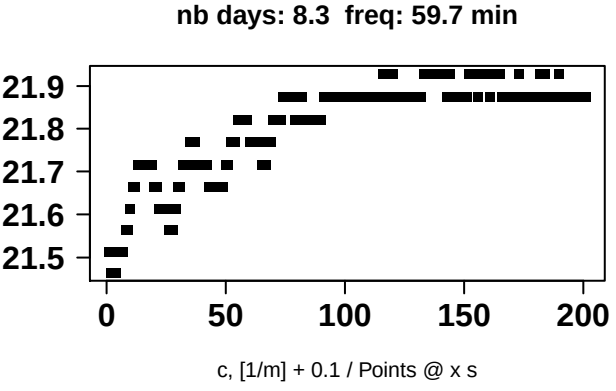

2015−04−07 21:10:15 2015−04−16 05:10:17
1000
800
600
400
200
0
0
500
1000
1500
Pressure in

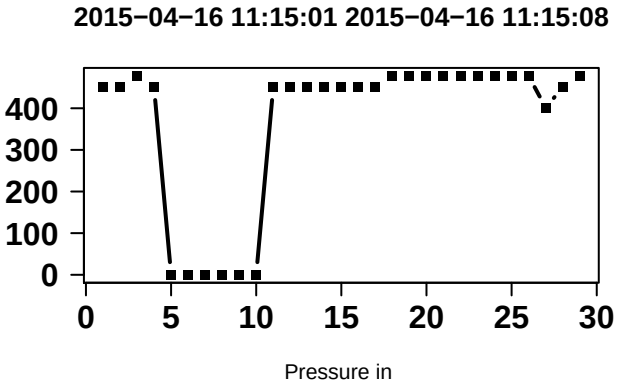

black 0.058 red 0.26
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
27.51
32.25
32.15
32.05
0
50
100
150
200

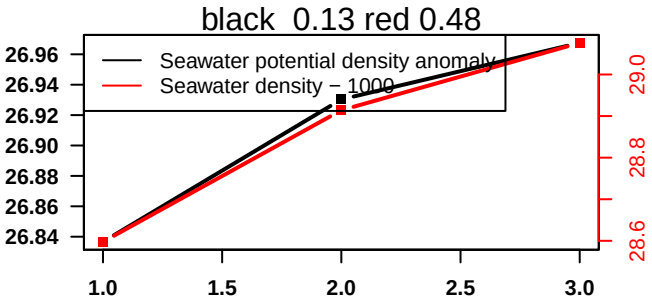

lovbio006b_093_00_06.txt
50
49
48
47
46
45
44
43
0
200
600
1000
CDOM, [CN] / Points @ x s

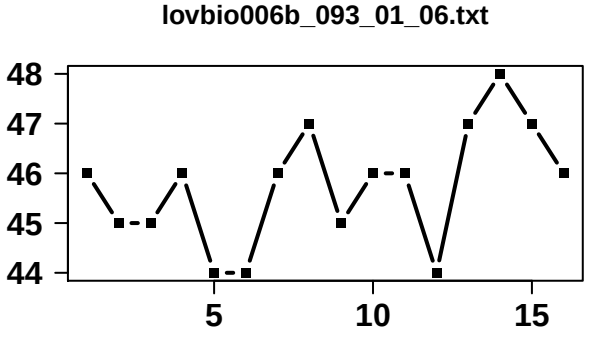

52
51
50
49
48
47
0
200
600
1000
chl, [CN] / Points @ x s

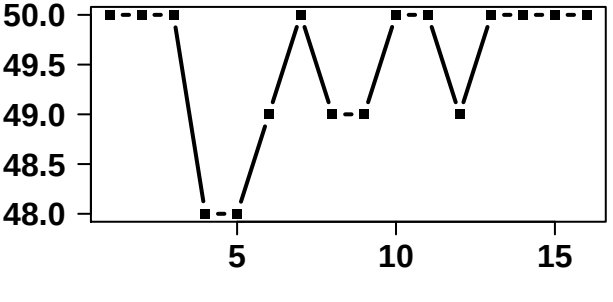

nb days: 8.3 freq: 10 min
250
200
150
100
0
200
600
1000
beta, [CN] / Points @ x s

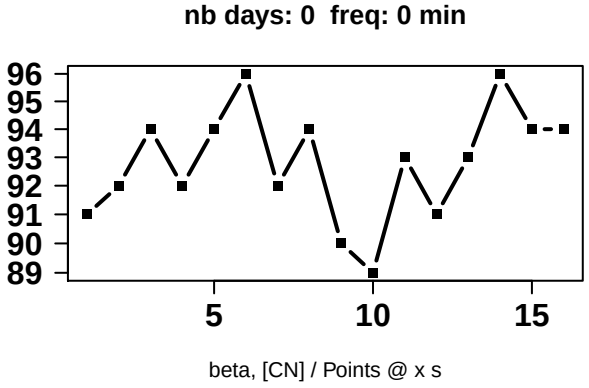

nb days: 8.3 freq: 59.7 min
21.9
21.8
21.7
21.6
21.5
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

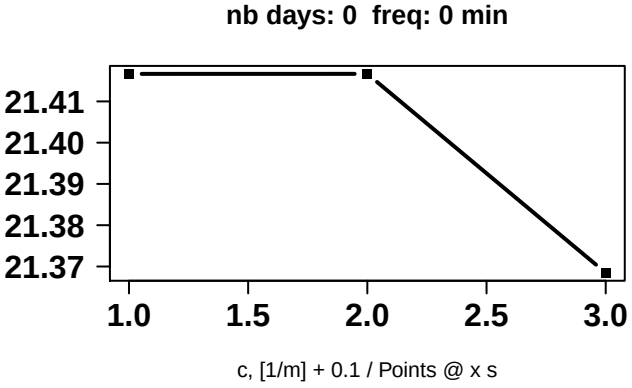

2015−04−16 11:15:01 2015−04−16 11:15:08
400
300
200
100
0
0
5
10
15
20
25
30
Pressure in

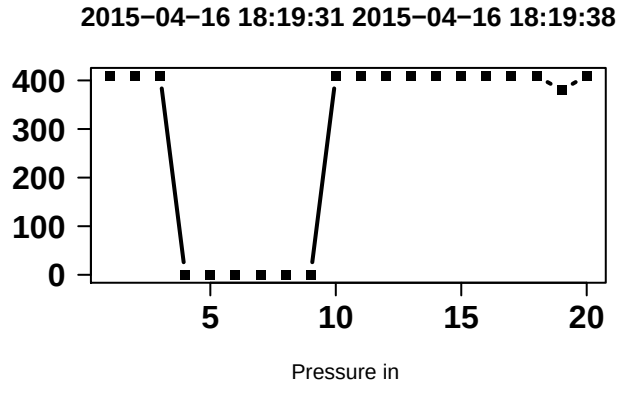

black 0.13 red 0.48
Seawater potential density anomaly
Seawater density − 1000
26.96
26.94
26.92
26.90
26.88
26.86
26.84
29.0
28.8
28.6
1.0
1.5
2.0
2.5
3.0

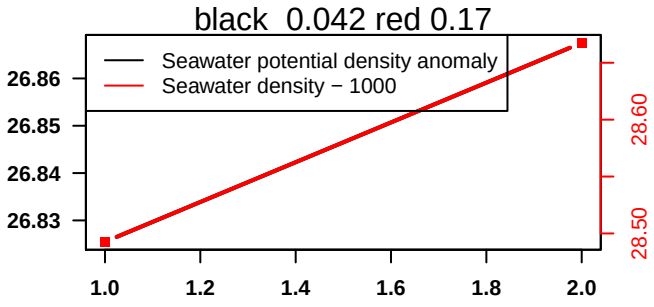

lovbio006b_093_01_06.txt
48
47
46
45
44
5
10
15
CDOM, [CN] / Points @ x s

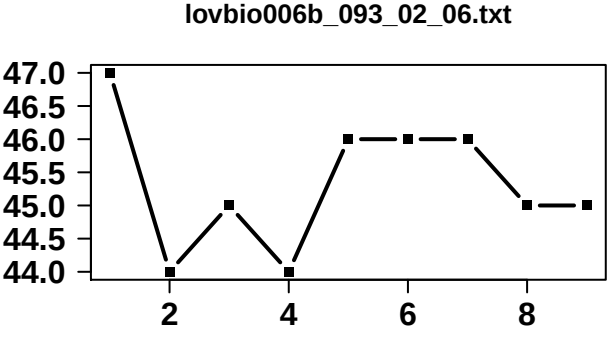

50.0
49.5
49.0
48.5
48.0
5
10
15
chl, [CN] / Points @ x s

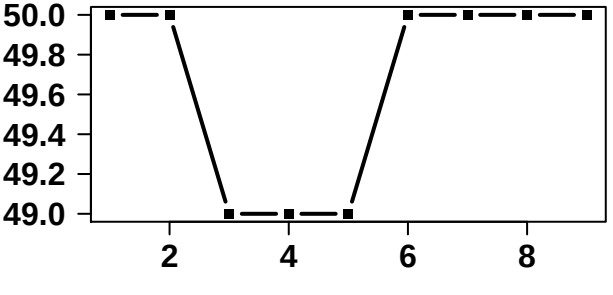

nb days: 0 freq: 0 min
96
95
94
93
92
91
90
89
5
10
15
beta, [CN] / Points @ x s

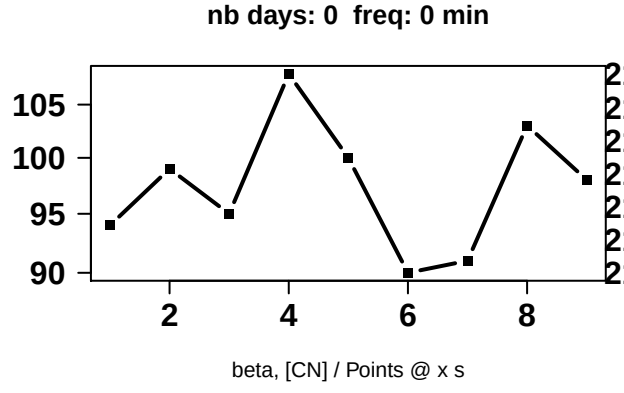

nb days: 0 freq: 0 min
21.41
21.40
21.39
21.38
21.37
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

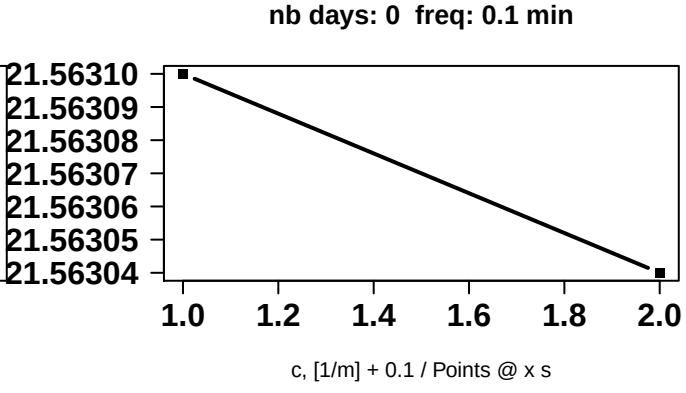

2015−04−16 18:19:31 2015−04−16 18:19:38
400
300
200
100
0
5
10
15
20
Pressure in

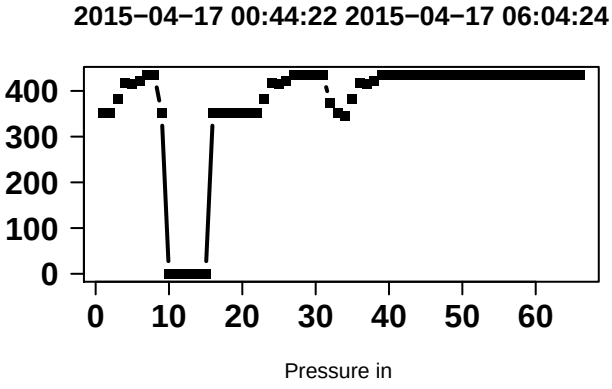

black 0.042 red 0.17
Seawater potential density anomaly
Seawater density − 1000
26.86
26.85
26.84
26.83
28.60
28.50
1.0
1.2
1.4
1.6
1.8
2.0

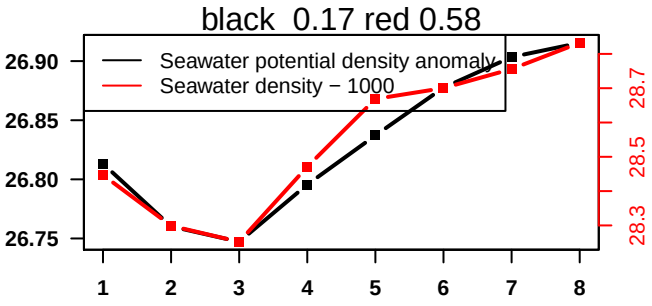

lovbio006b_093_02_06.txt
47.0
46.5
46.0
45.5
45.0
44.5
44.0
2
4
6
8
CDOM, [CN] / Points @ x s

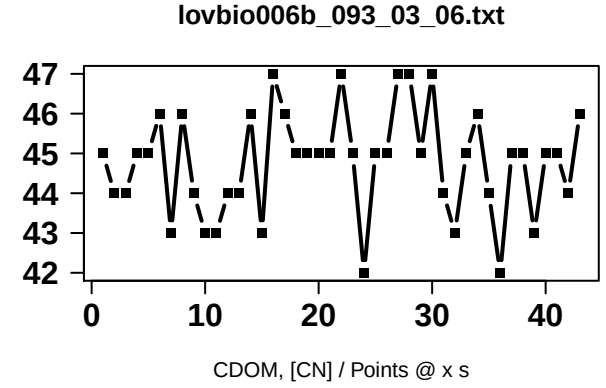

50.0
49.8
49.6
49.4
49.2
49.0
2
4
6
8
chl, [CN] / Points @ x s

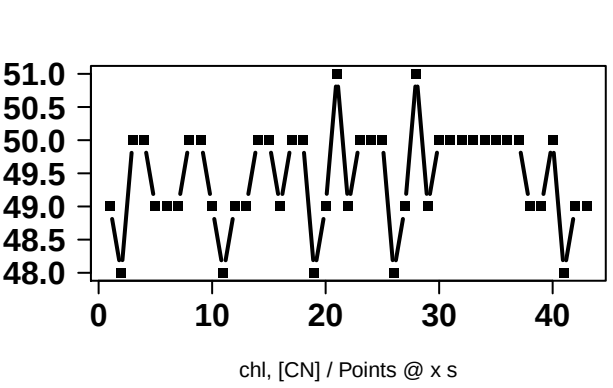

nb days: 0 freq: 0 min
105
100
95
90
2
4
6
8
beta, [CN] / Points @ x s

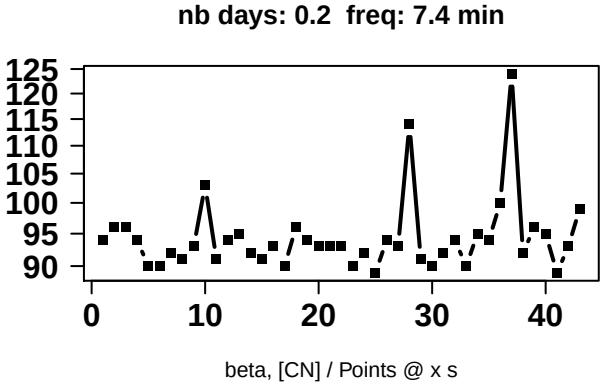

nb days: 0 freq: 0.1 min
21.56310
21.56309
21.56308
21.56307
21.56306
21.56305
21.56304
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

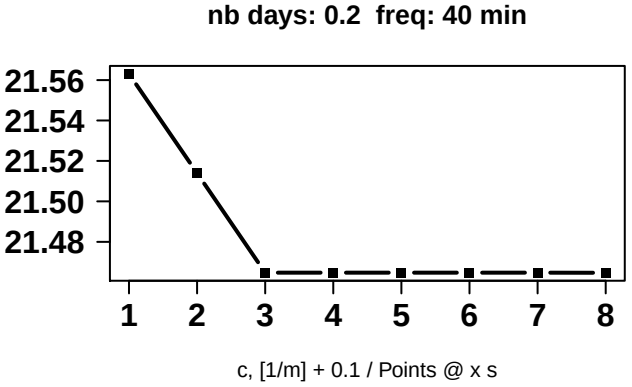

2015−04−17 00:44:22 2015−04−17 06:04:24
400
300
200
100
0
0
10
20
30
40
50
60
Pressure in

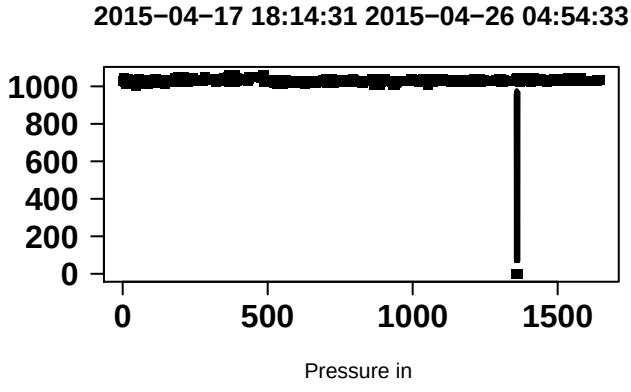

black 0.17 red 0.58
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
26.75
28.7
28.5
28.3
1
2
3
4
5
6
7
8

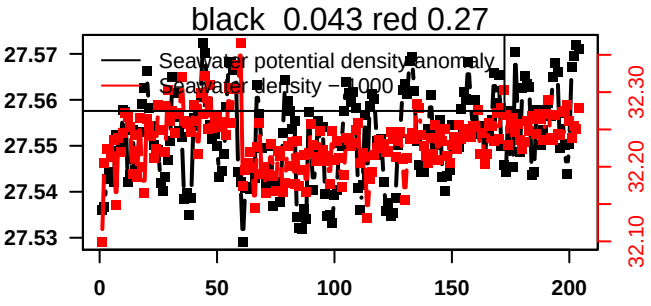

lovbio006b_093_03_06.txt
47
46
45
44
43
42
0
10
20
30
40
CDOM, [CN] / Points @ x s

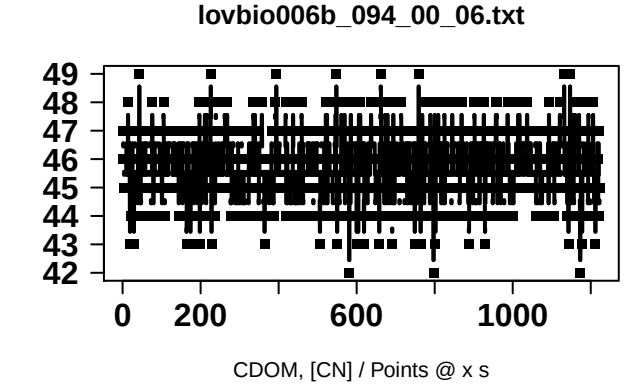

51.0
50.5
50.0
49.5
49.0
48.5
48.0
0
10
20
30
40
chl, [CN] / Points @ x s

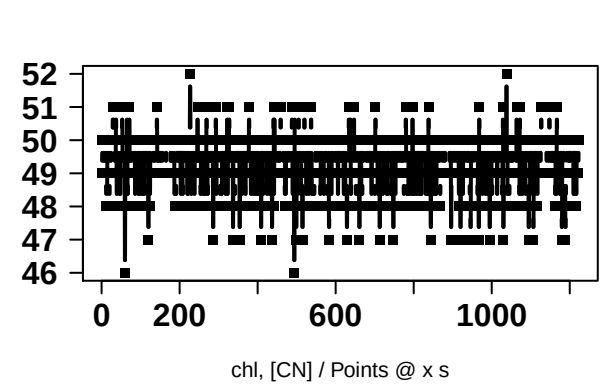

nb days: 0.2 freq: 7.4 min
125
120
115
110
105
100
95
90
0
10
20
30
40
beta, [CN] / Points @ x s

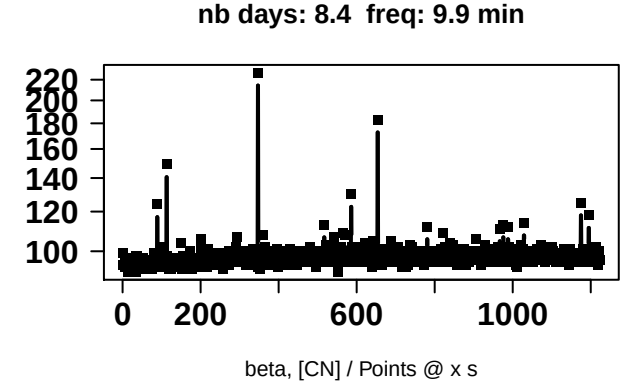

nb days: 0.2 freq: 40 min
21.56
21.54
21.52
21.50
21.48
1
2
3
4
5
6
7
8
c, [1/m] + 0.1 / Points @ x s

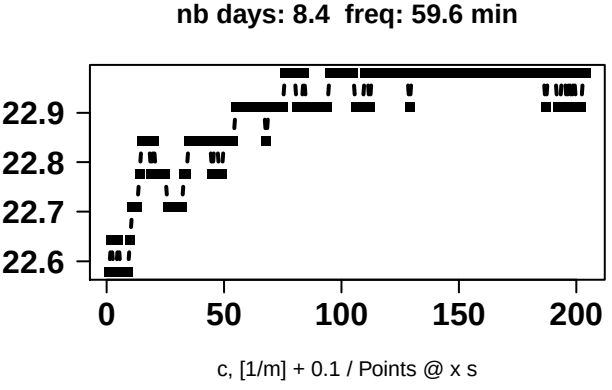

2015−04−17 18:14:31 2015−04−26 04:54:33
1000
800
600
400
200
0
0
500
1000
1500
Pressure in

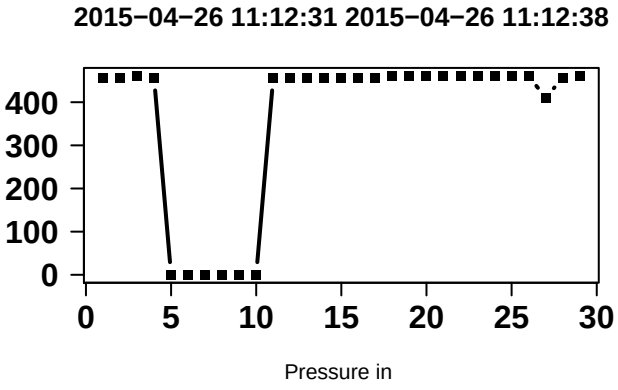

black 0.043 red 0.27
Seawater potential density anomaly
Seawater density − 1000
27.57
27.56
27.55
27.54
27.53
32.30
32.20
32.10
0
50
100
150
200

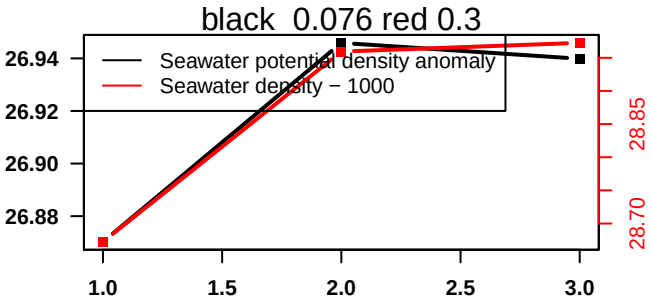

lovbio006b_094_00_06.txt
49
48
47
46
45
44
43
42
0
200
600
1000
CDOM, [CN] / Points @ x s

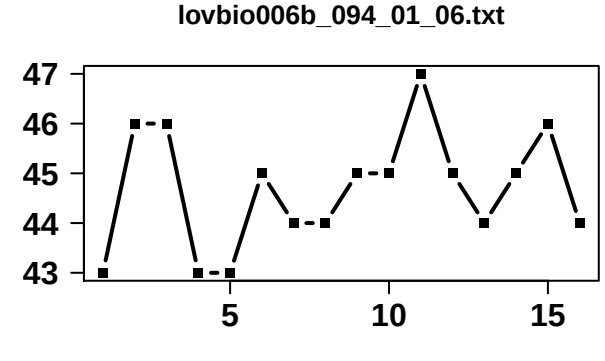

52
51
50
49
48
47
46
0
200
600
1000
chl, [CN] / Points @ x s

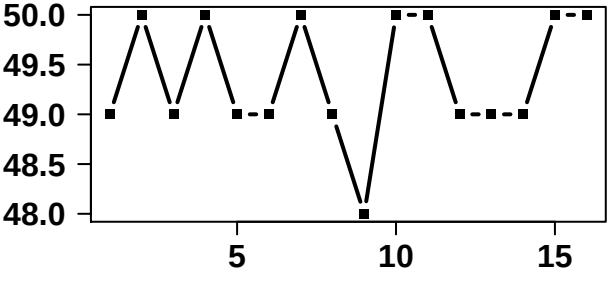

nb days: 8.4 freq: 9.9 min
220
200
180
160
140
120
100
0
200
600
1000
beta, [CN] / Points @ x s

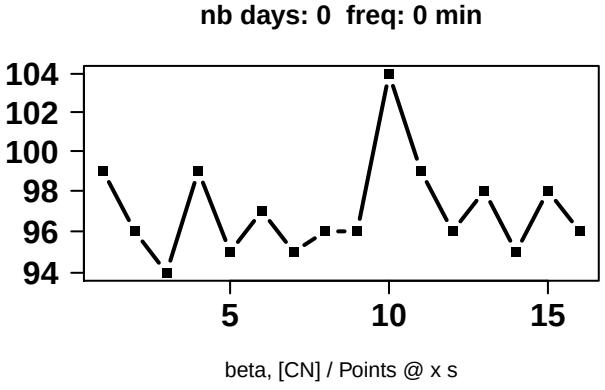

nb days: 8.4 freq: 59.6 min
22.9
22.8
22.7
22.6
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

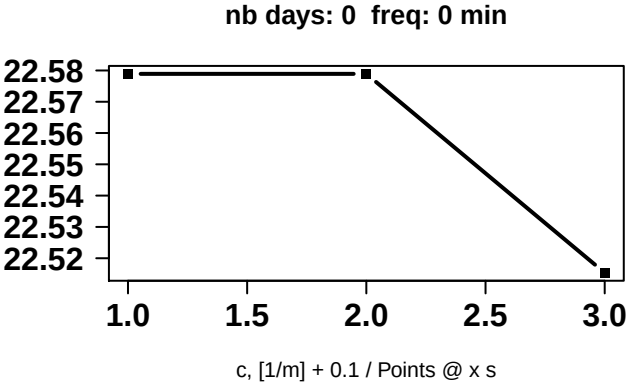

2015−04−26 11:12:31 2015−04−26 11:12:38
400
300
200
100
0
0
5
10
15
20
25
30
Pressure in

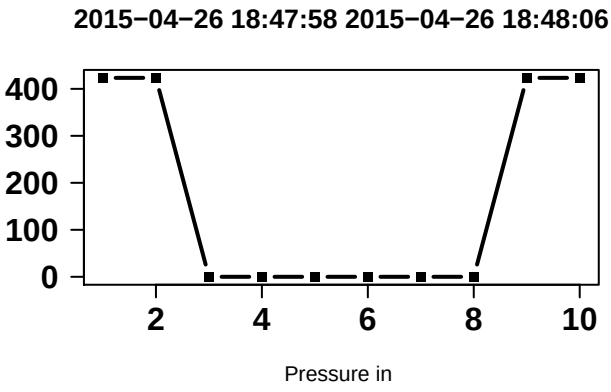

black 0.076 red 0.3
Seawater potential density anomaly
Seawater density − 1000
26.94
26.92
26.90
26.88
28.85
28.70
1.0
1.5
2.0
2.5
3.0

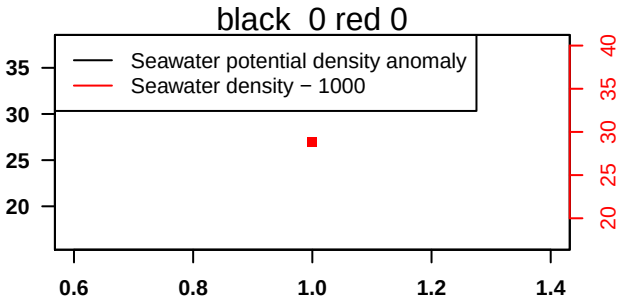

lovbio006b_094_01_06.txt
47
46
45
44
43
5
10
15
CDOM, [CN] / Points @ x s

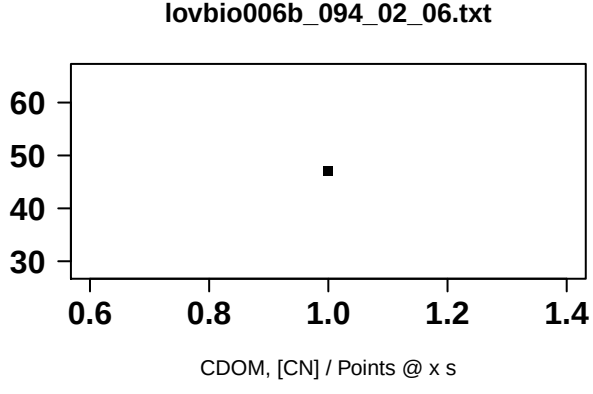

50.0
49.5
49.0
48.5
48.0
5
10
15
chl, [CN] / Points @ x s

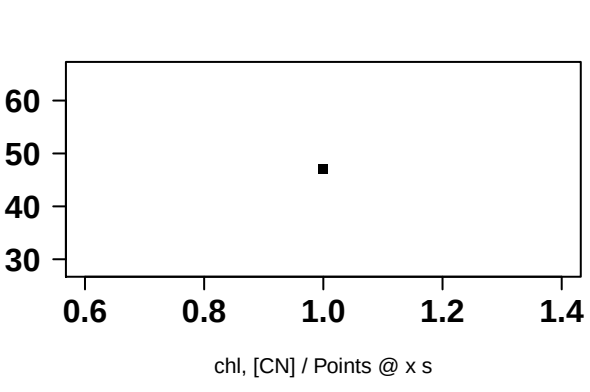

nb days: 0 freq: 0 min
104
102
100
98
96
94
5
10
15
beta, [CN] / Points @ x s

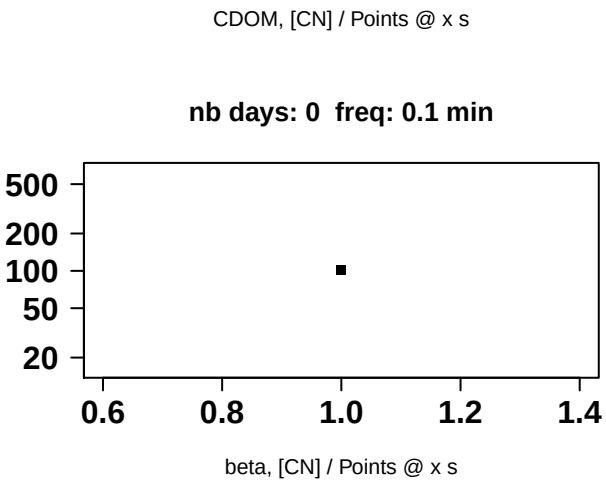

nb days: 0 freq: 0 min
22.58
22.57
22.56
22.55
22.54
22.53
22.52
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

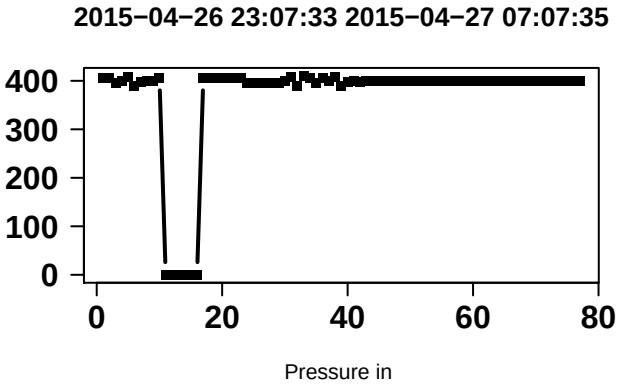

2015−04−26 18:47:58 2015−04−26 18:48:06
400
300
200
100
0
2
4
6
8
10
Pressure in

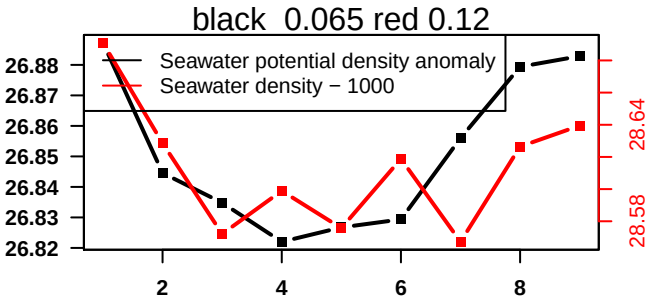

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

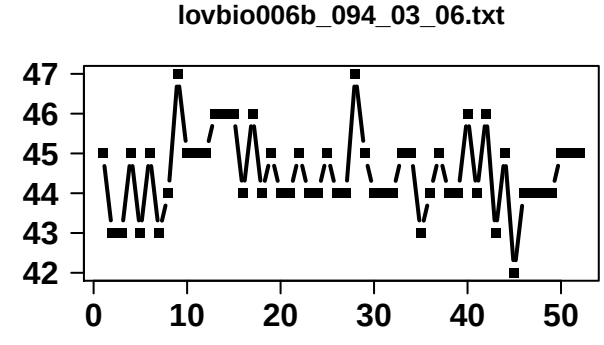

lovbio006b_094_02_06.txt
60
50
40
30
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

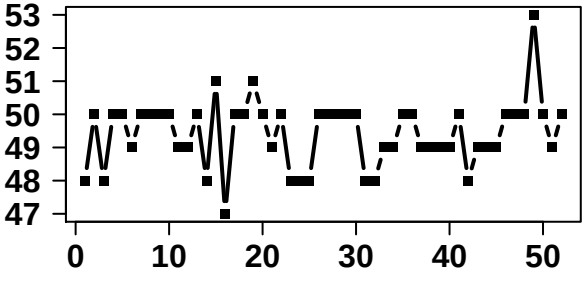

60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

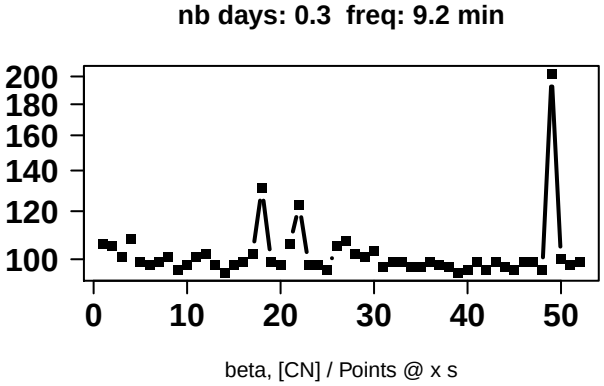

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

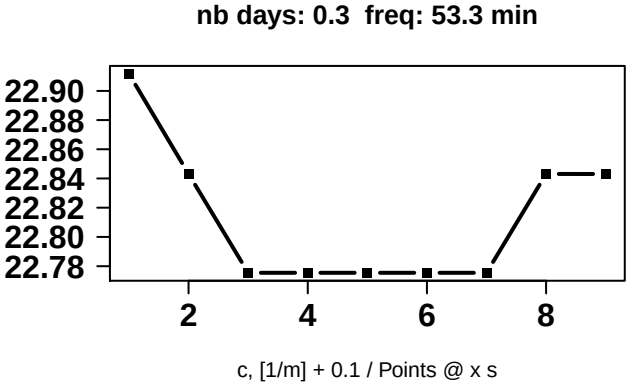

2015−04−26 23:07:33 2015−04−27 07:07:35
400
300
200
100
0
0
20
40
60
80
Pressure in

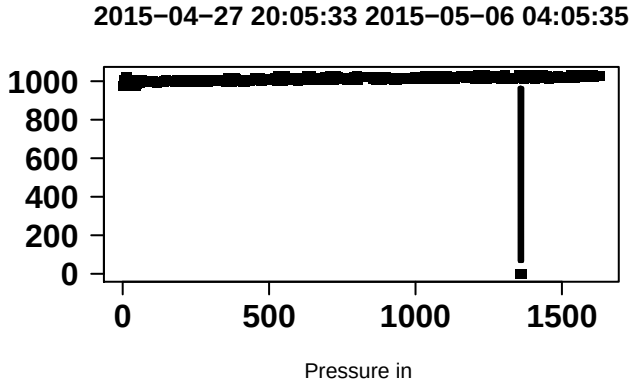

black 0.065 red 0.12
Seawater potential density anomaly
Seawater density − 1000
26.88
26.87
26.86
26.85
26.84
26.83
26.82
28.64
28.58
2
4
6
8

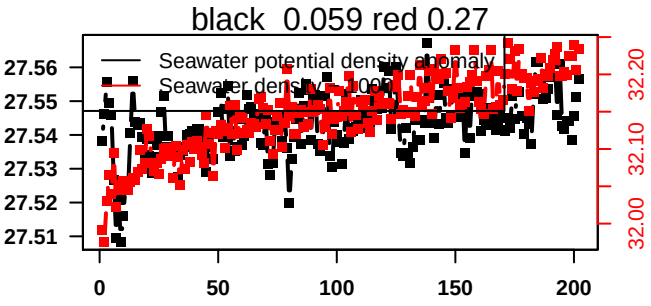

lovbio006b_094_03_06.txt
47
46
45
44
43
42
0
10
20
30
40
50
CDOM, [CN] / Points @ x s

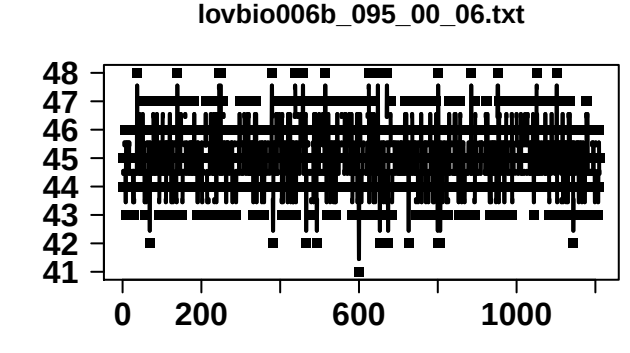

53
52
51
50
49
48
47
0
10
20
30
40
50
chl, [CN] / Points @ x s

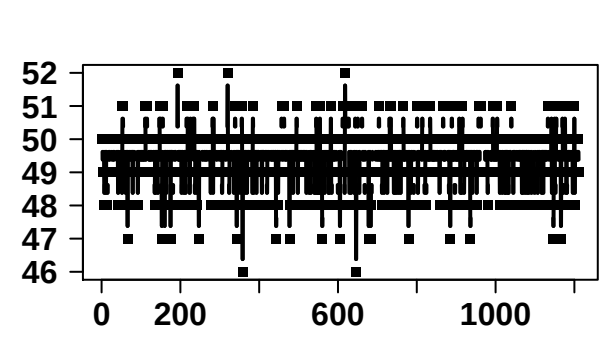

nb days: 0.3 freq: 9.2 min
200
180
160
140
120
100
0
10
20
30
40
50
beta, [CN] / Points @ x s

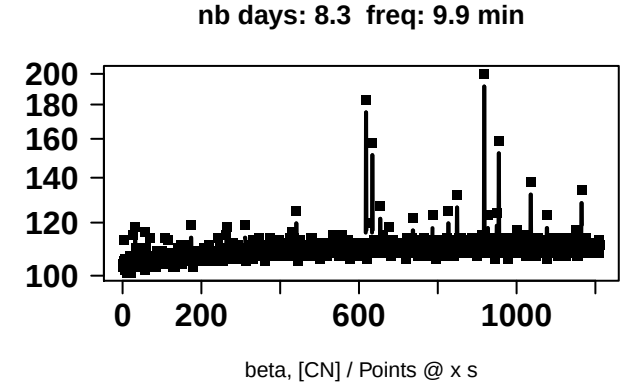

nb days: 0.3 freq: 53.3 min
22.90
22.88
22.86
22.84
22.82
22.80
22.78
2
4
6
8
c, [1/m] + 0.1 / Points @ x s

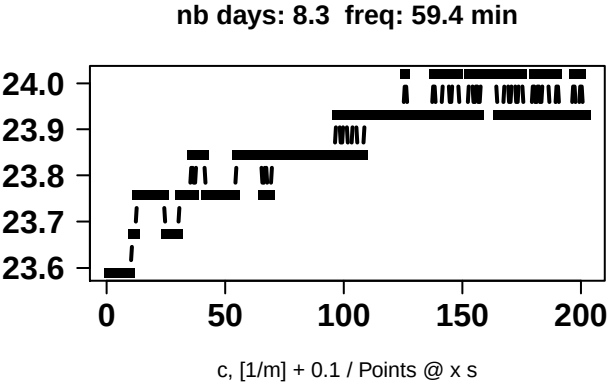

2015−04−27 20:05:33 2015−05−06 04:05:35
1000
800
600
400
200
0
0
500
1000
1500
Pressure in

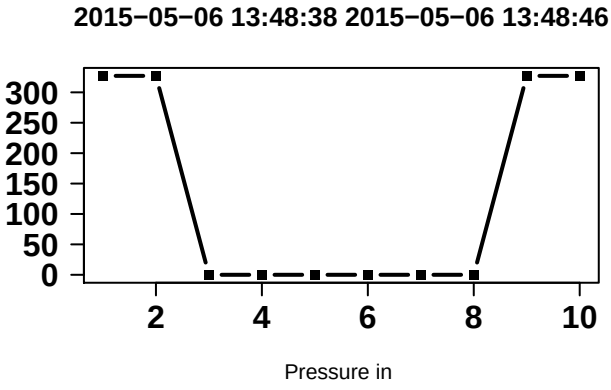

black 0.059 red 0.27
Seawater potential density anomaly
27.56
27.55
27.54
27.53
27.52
27.51
0
50
100
150
200
32.20
32.10
32.00

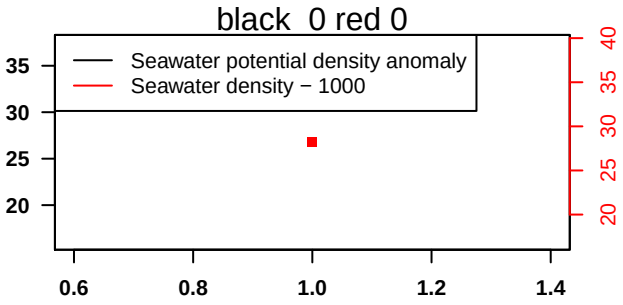

lovbio006b_095_00_06.txt
48
47
46
45
44
43
42
41
0
200
600
1000
CDOM, [CN] / Points @ x s

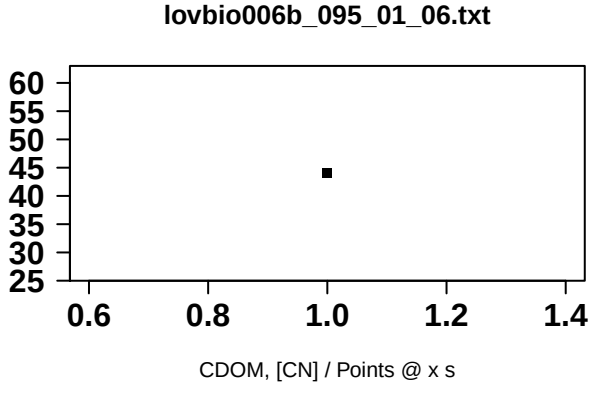

52
51
50
49
48
47
46
0
200
600
1000
chl, [CN] / Points @ x s

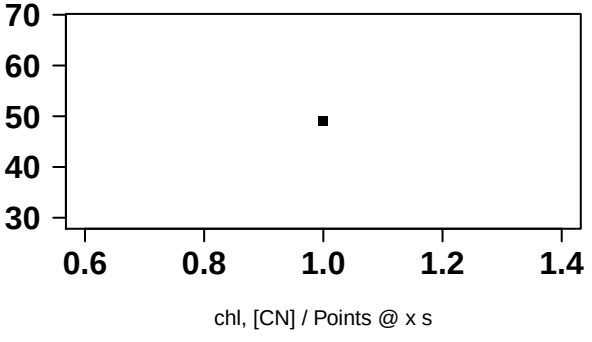

nb days: 8.3 freq: 9.9 min
200
180
160
140
120
100
0
200
600
1000
beta, [CN] / Points @ x s

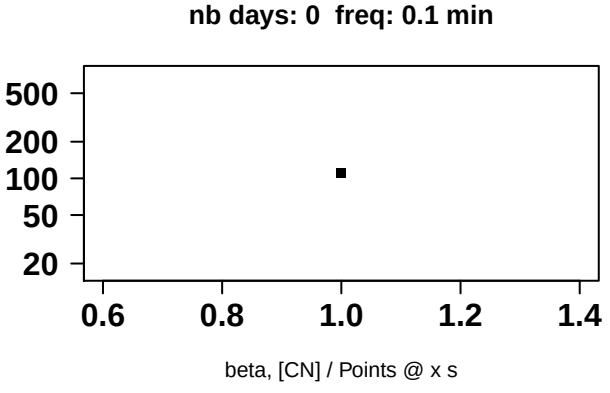

nb days: 8.3 freq: 59.4 min
24.0
23.9
23.8
23.7
23.6
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

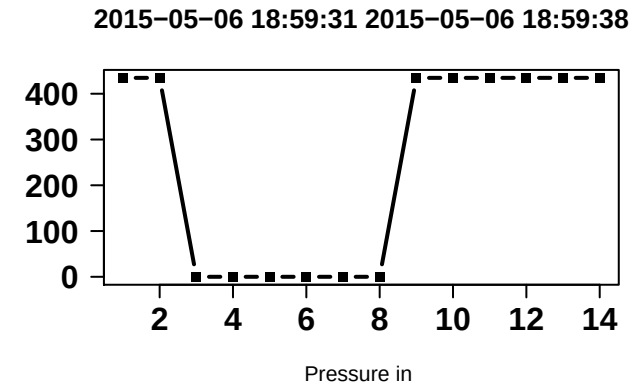

2015−05−06 13:48:38 2015−05−06 13:48:46
300
250
200
150
100
50
0
2
4
6
8
10
Pressure in

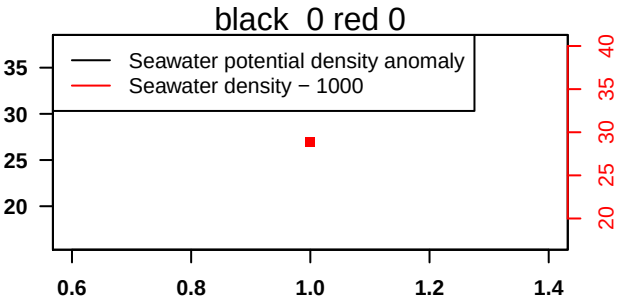

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

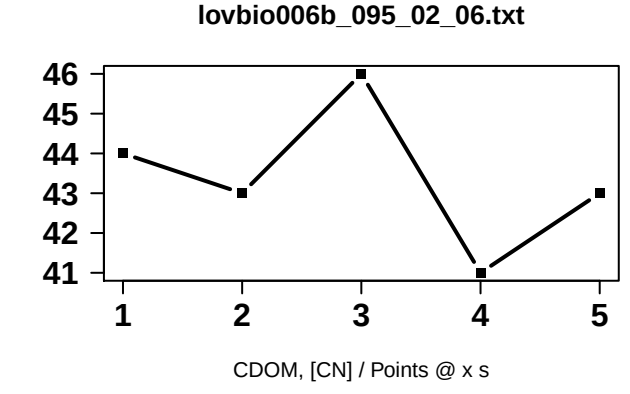

lovbio006b_095_01_06.txt
60
55
50
45
40
35
30
25
0.6
0.8
1.0
1.2
1.4
CDOM, [CN] / Points @ x s

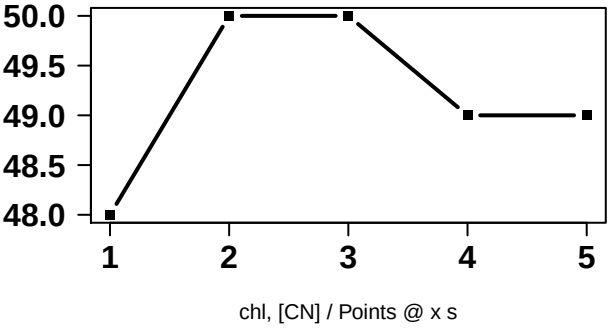

70
60
50
40
30
0.6
0.8
1.0
1.2
1.4
chl, [CN] / Points @ x s

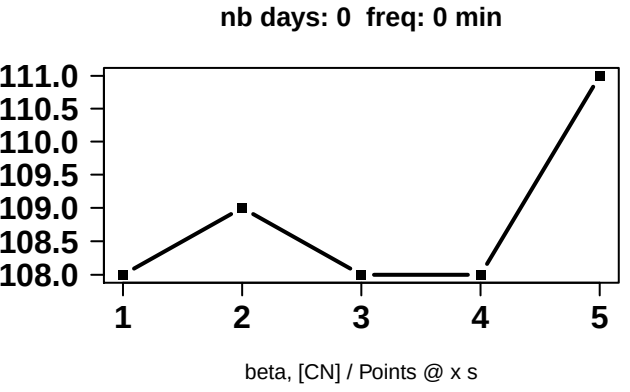

nb days: 0 freq: 0.1 min
500
200
100
50
20
0.6
0.8
1.0
1.2
1.4
beta, [CN] / Points @ x s

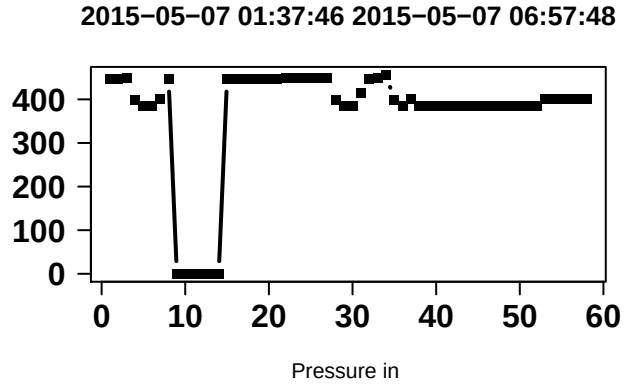

2015−05−06 18:59:31 2015−05−06 18:59:38
400
300
200
100
0
2
4
6
8
10
12
14
Pressure in

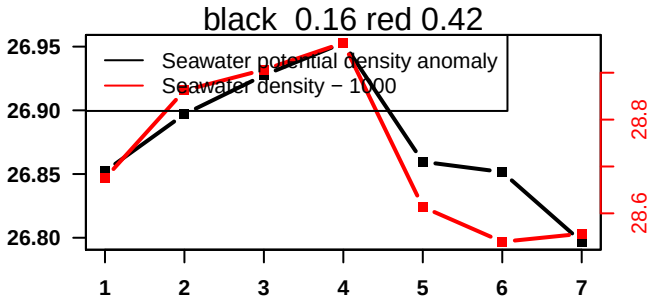

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

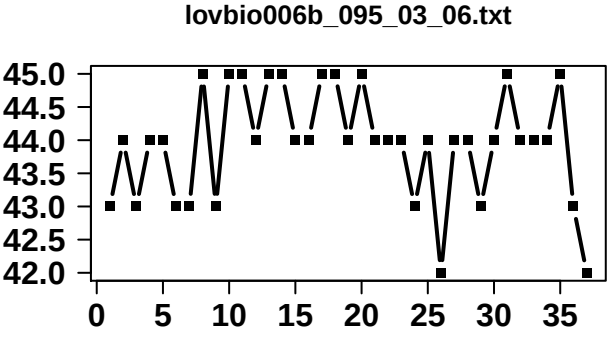

lovbio006b_095_02_06.txt
46
45
44
43
42
41
1
2
3
4
5
CDOM, [CN] / Points @ x s

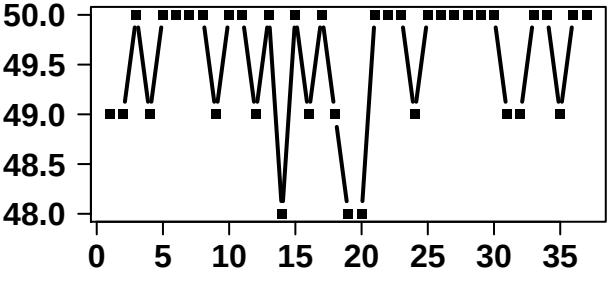

50.0
49.5
49.0
48.5
48.0
1
2
3
4
5
chl, [CN] / Points @ x s

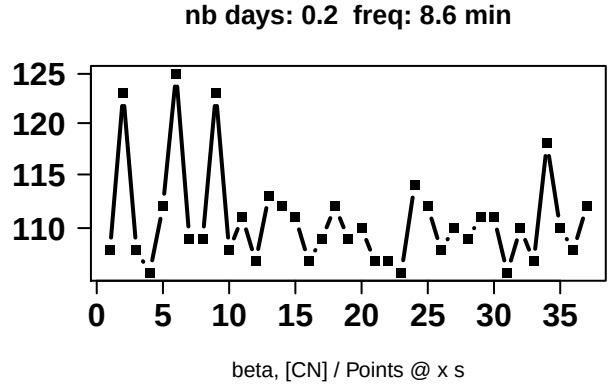

nb days: 0 freq: 0 min
111.0
110.5
110.0
109.5
109.0
108.5
108.0
1
2
3
4
5
beta, [CN] / Points @ x s

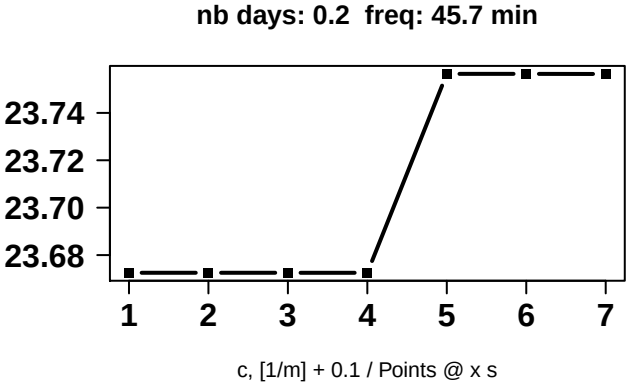

2015−05−07 01:37:46 2015−05−07 06:57:48
400
300
200
100
0
0
10
20
30
40
50
60
Pressure in

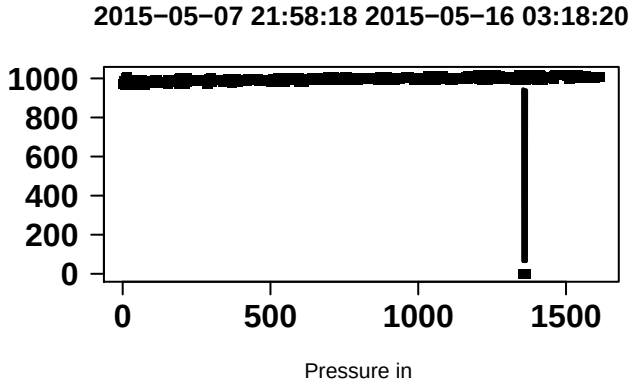

black 0.16 red 0.42
Seawater potential density anomaly
Seawater density − 1000
26.95
26.90
26.85
26.80
28.8
28.6
1
2
3
4
5
6
7

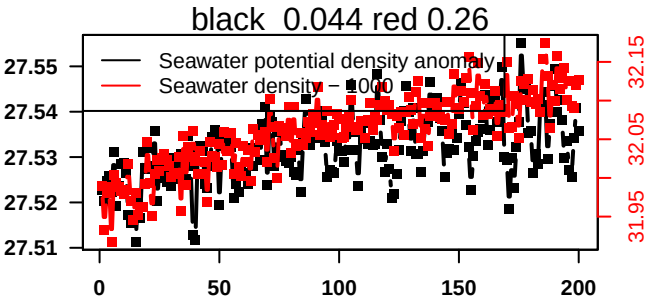

lovbio006b_095_03_06.txt
45.0
44.5
44.0
43.5
43.0
42.5
42.0
0
5
10
15
20
25
30
35
CDOM, [CN] / Points @ x s

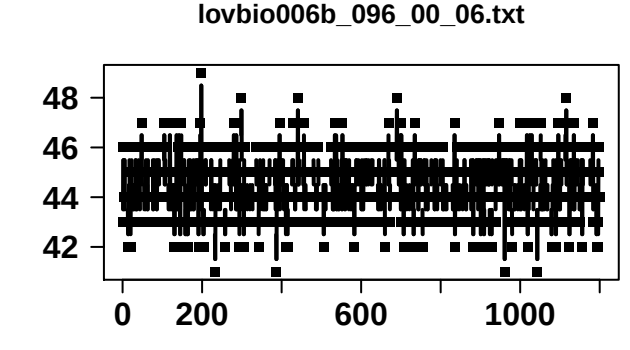

50.0
49.5
49.0
48.5
48.0
0
5
10
15
20
25
30
35
chl, [CN] / Points @ x s

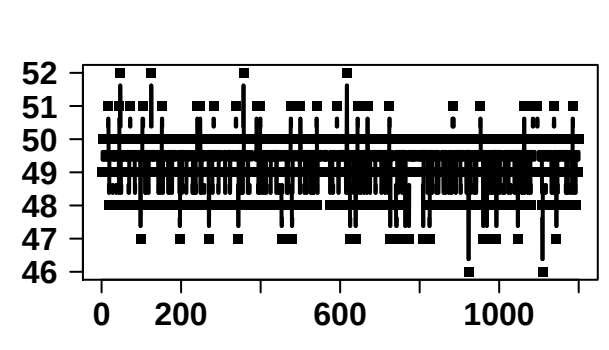

nb days: 0.2 freq: 8.6 min
125
120
115
110
0
5
10
15
20
25
30
35
beta, [CN] / Points @ x s

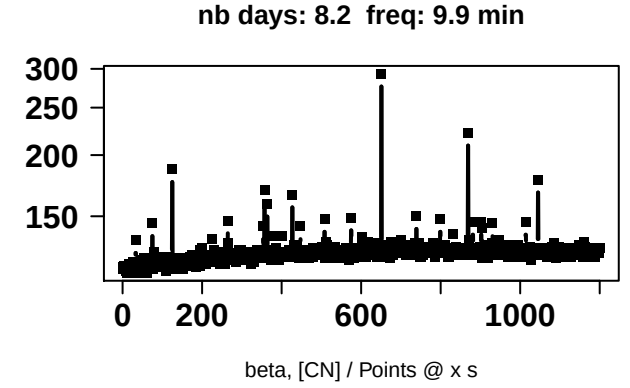

nb days: 0.2 freq: 45.7 min
23.74
23.72
23.70
23.68
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

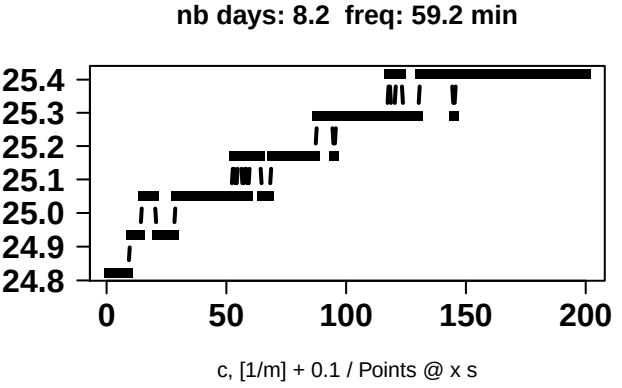

2015−05−07 21:58:18 2015−05−16 03:18:20
1000
800
600
400
200
0
0
500
1000
1500
Pressure in

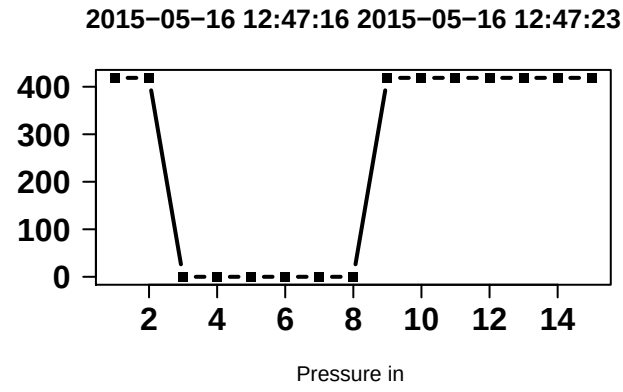

black 0.044 red 0.26
Seawater potential density anomaly
Seawater density − 1000
27.55
27.54
27.53
27.52
27.51
32.15
32.05
31.95
0
50
100
150
200

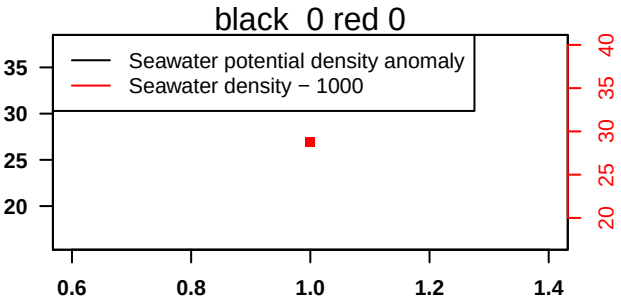

lovbio006b_096_00_06.txt
48
46
44
42
0
200
600
1000
CDOM, [CN] / Points @ x s

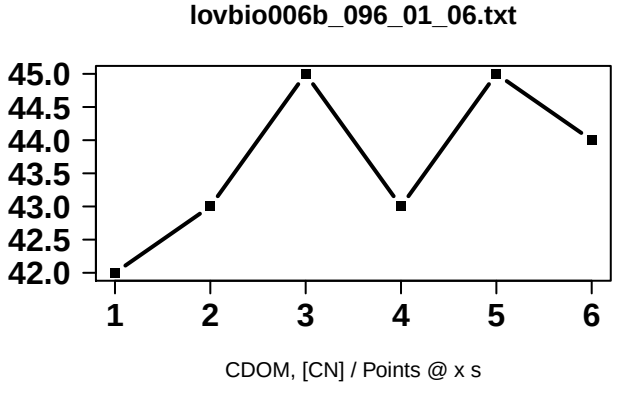

52
51
50
49
48
47
46
0
200
600
1000
chl, [CN] / Points @ x s

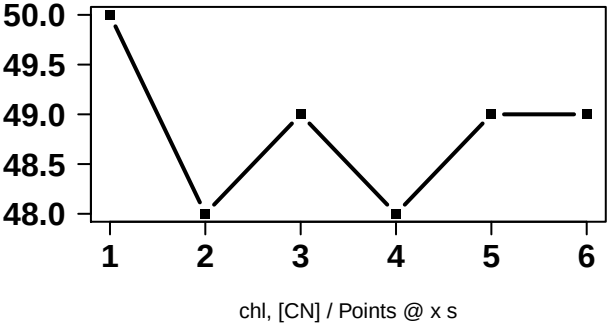

nb days: 8.2 freq: 9.9 min
300
250
200
150
0
200
600
1000
beta, [CN] / Points @ x s

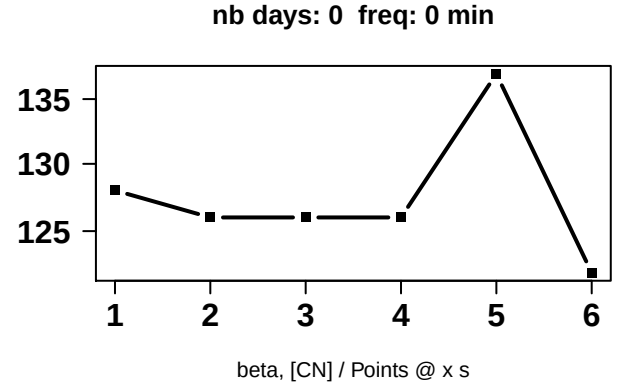

nb days: 8.2 freq: 59.2 min
25.4
25.3
25.2
25.1
25.0
24.9
24.8
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

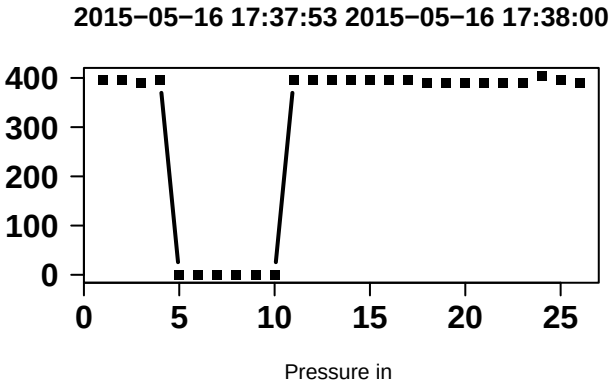

2015−05−16 12:47:16 2015−05−16 12:47:23
400
300
200
100
0
2
4
6
8
10
12
14
Pressure in

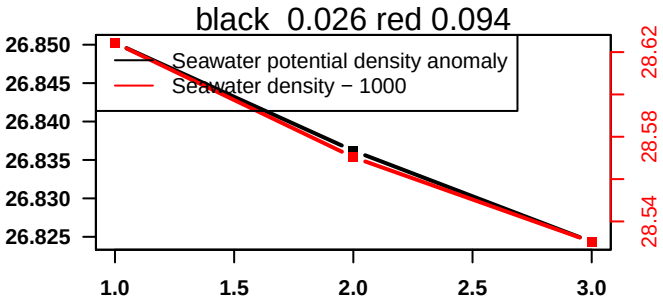

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

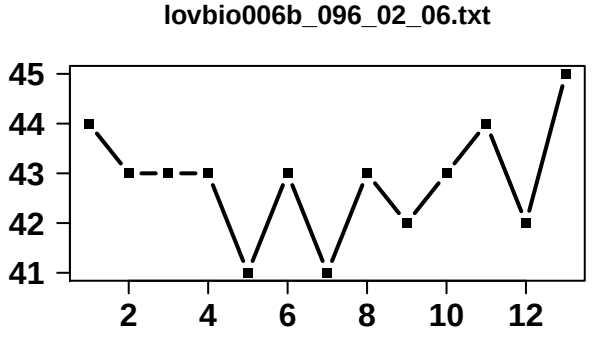

lovbio006b_096_01_06.txt
45.0
44.5
44.0
43.5
43.0
42.5
42.0
1
2
3
4
5
6
CDOM, [CN] / Points @ x s

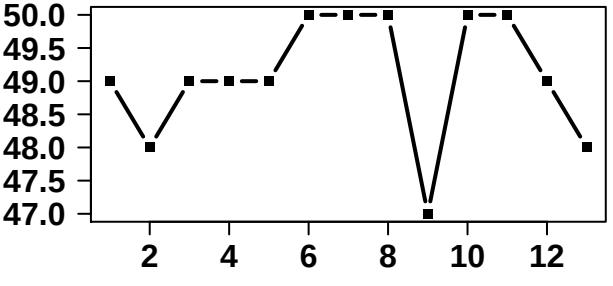

50.0
49.5
49.0
48.5
48.0
1
2
3
4
5
6
chl, [CN] / Points @ x s

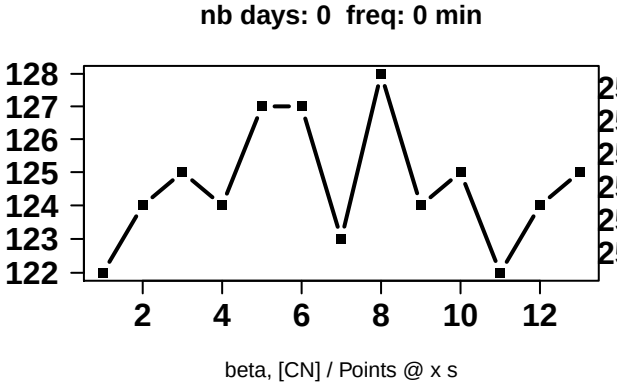

nb days: 0 freq: 0 min
135
130
125
1
2
3
4
5
6
beta, [CN] / Points @ x s

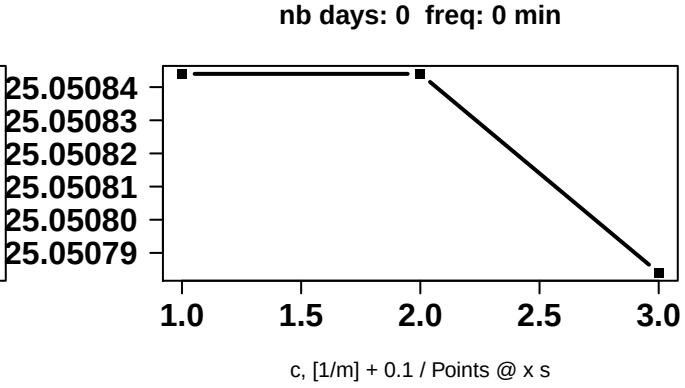

2015−05−16 17:37:53 2015−05−16 17:38:00
400
300
200
100
0
0
5
10
15
20
25
Pressure in

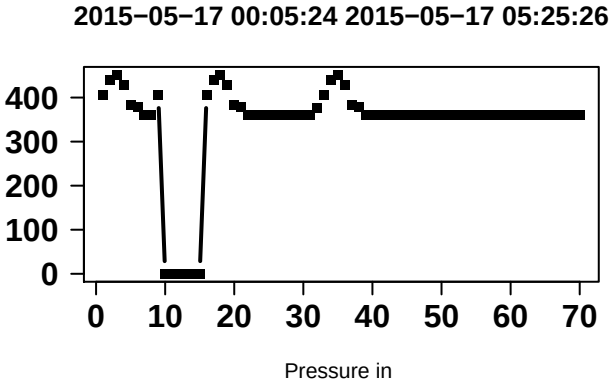

black 0.026 red 0.094
Seawater potential density anomaly
Seawater density − 1000
26.850
26.845
26.840
26.835
26.830
26.825
28.62
28.58
28.54
1.0
1.5
2.0
2.5
3.0

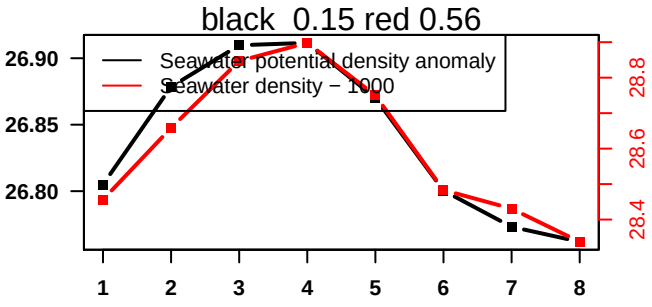

lovbio006b_096_02_06.txt
45
44
43
42
41
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

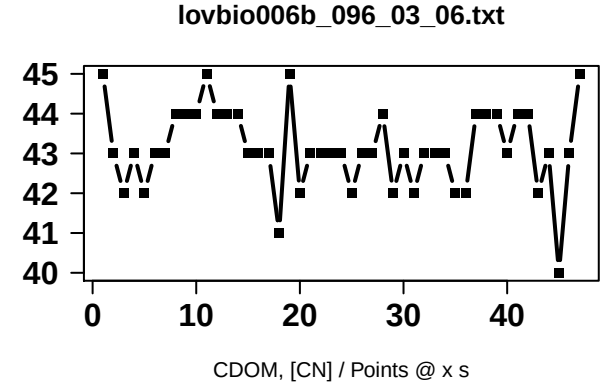

50.0
49.5
49.0
48.5
48.0
47.5
47.0
2
4
6
8
10
12
chl, [CN] / Points @ x s

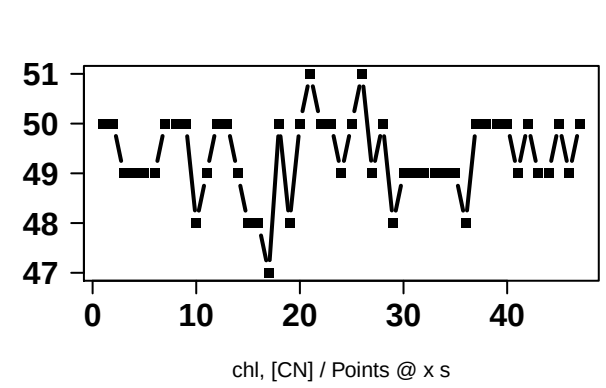

nb days: 0 freq: 0 min
128
127
126
125
124
123
122
2
4
6
8
10
12
beta, [CN] / Points @ x s

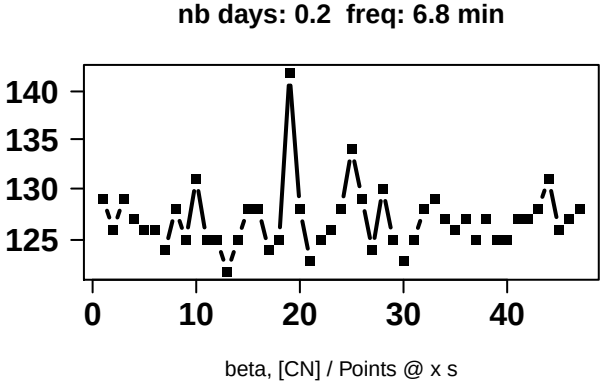

nb days: 0 freq: 0 min
25.05084
25.05083
25.05082
25.05081
25.05080
25.05079
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

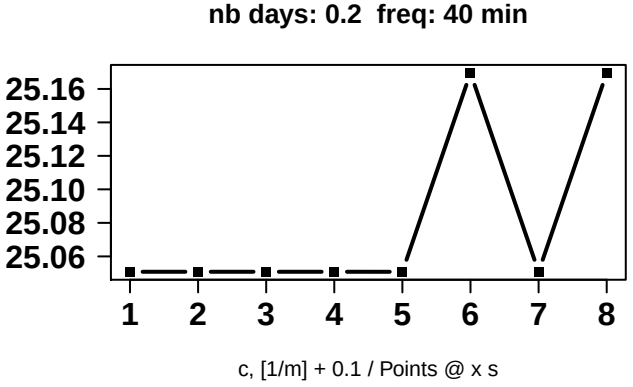

2015−05−17 00:05:24 2015−05−17 05:25:26
400
300
200
100
0
0 10 20 30 40 50 60 70
Pressure in

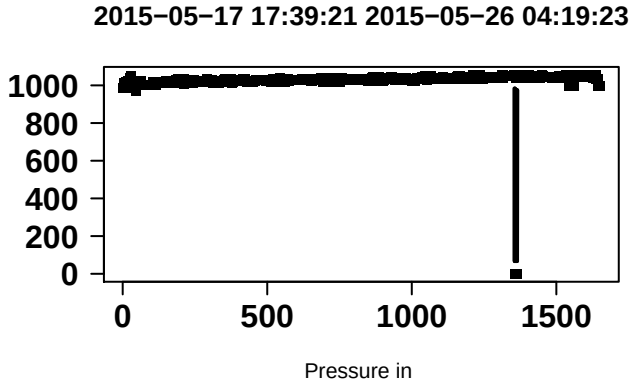

black 0.15 red 0.56
Seawater potential density anomaly
Seawater density − 1000
26.90
26.85
26.80
28.8
28.6
28.4
1 2 3 4 5 6 7 8

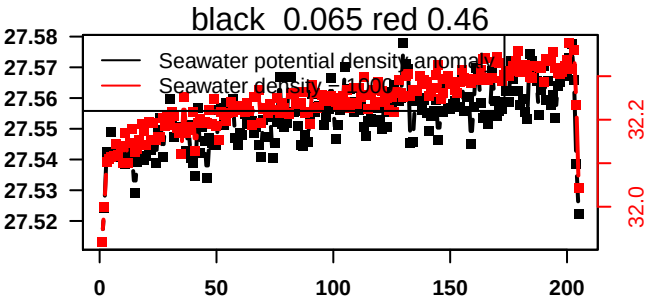

lovbio006b_096_03_06.txt
45
44
43
42
41
40
0 10 20 30 40
CDOM, [CN] / Points @ x s

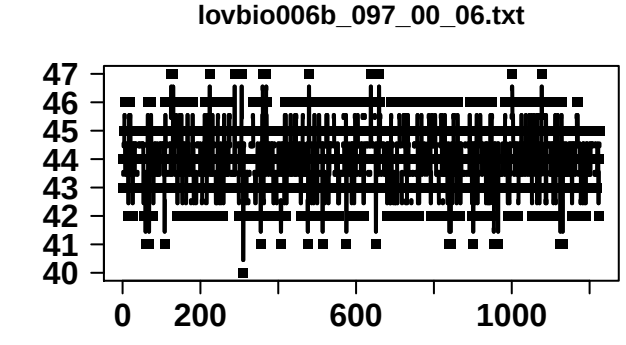

51
50
49
48
47
0 10 20 30 40
chl, [CN] / Points @ x s

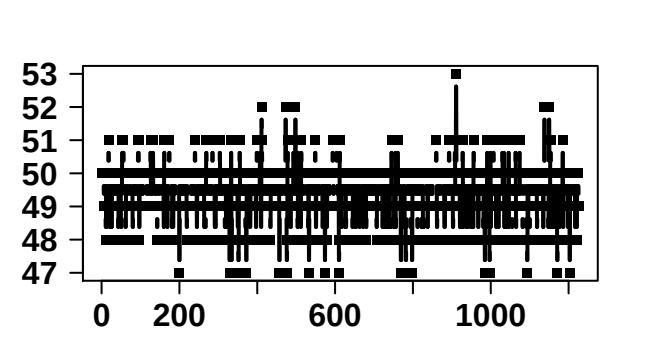

nb days: 0.2 freq: 6.8 min
140
135
130
125
0 10 20 30 40
beta, [CN] / Points @ x s

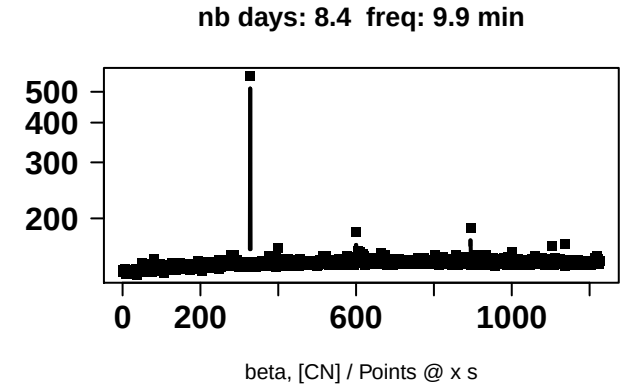

nb days: 0.2 freq: 40 min
25.16
25.14
25.12
25.10
25.08
25.06
1 2 3 4 5 6 7 8
c, [1/m] + 0.1 / Points @ x s

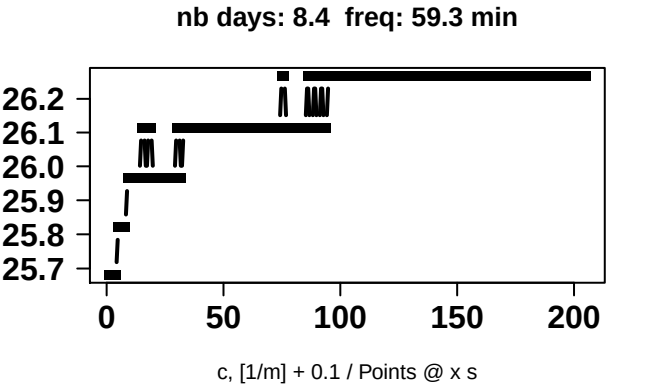

2015−05−17 17:39:21 2015−05−26 04:19:23
1000
800
600
400
200
0
0
500
1000
1500
Pressure in

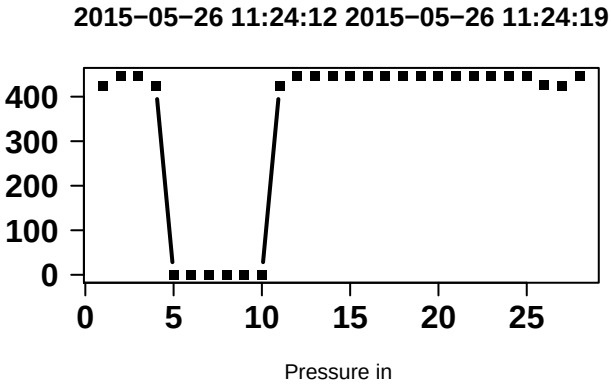

black 0.065 red 0.46
Seawater potential density anomaly
Seawater density − 1000
27.58
27.57
27.56
27.55
27.54
27.53
27.52
32.2
32.0
0
50
100
150
200

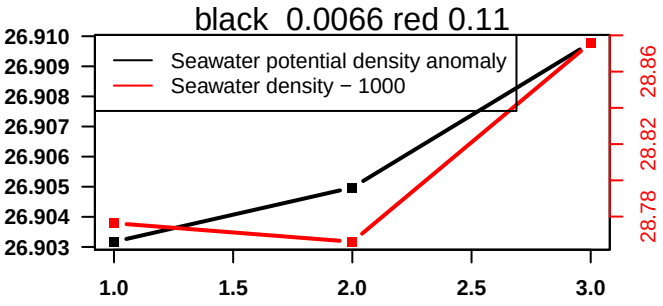

lovbio006b_097_00_06.txt
47
46
45
44
43
42
41
40
0
200
600
1000
CDOM, [CN] / Points @ x s

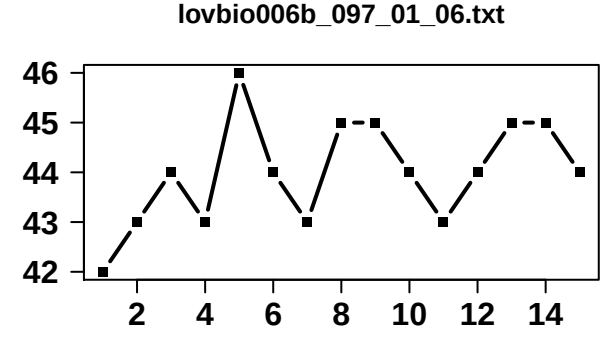

53
52
51
50
49
48
47
0
200
600
1000
chl, [CN] / Points @ x s

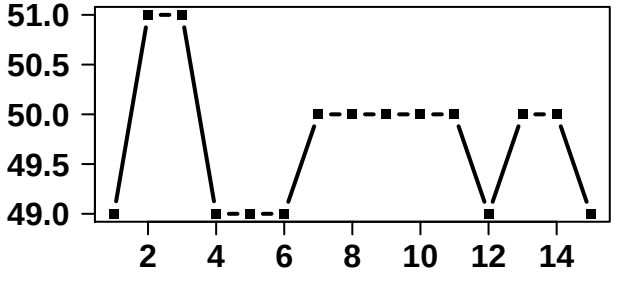

nb days: 8.4 freq: 9.9 min
500
400
300
200
0
200
600
1000
beta, [CN] / Points @ x s

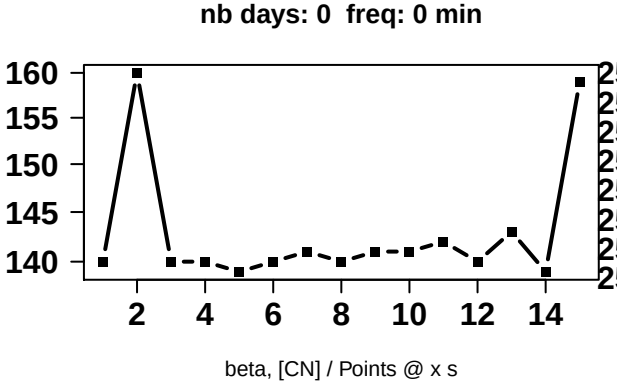

nb days: 8.4 freq: 59.3 min
26.2
26.1
26.0
25.9
25.8
25.7
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

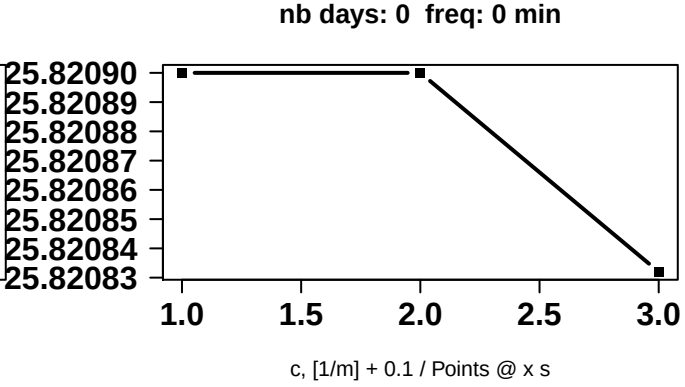

2015−05−26 11:24:12 2015−05−26 11:24:19
400
300
200
100
0
0
5
10
15
20
25
Pressure in

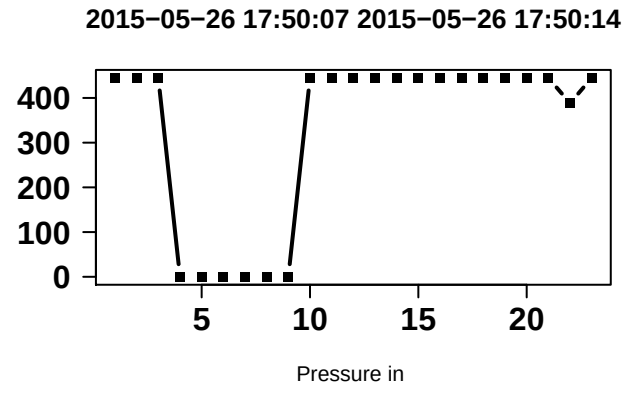

black 0.0066 red 0.11
Seawater potential density anomaly
Seawater density − 1000
26.910
26.909
26.908
26.907
26.906
26.905
26.904
26.903
28.86
28.82
28.78
1.0
1.5
2.0
2.5
3.0

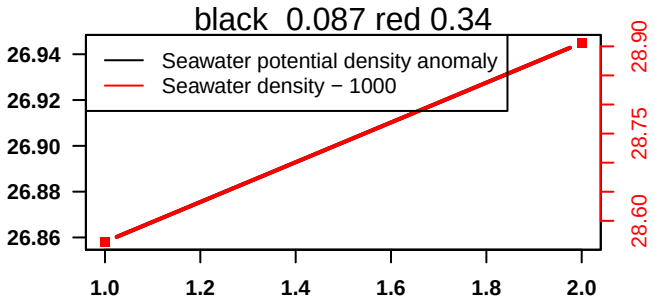

lovbio006b_097_01_06.txt
46
45
44
43
42
2
4
6
8
10
12
14
CDOM, [CN] / Points @ x s

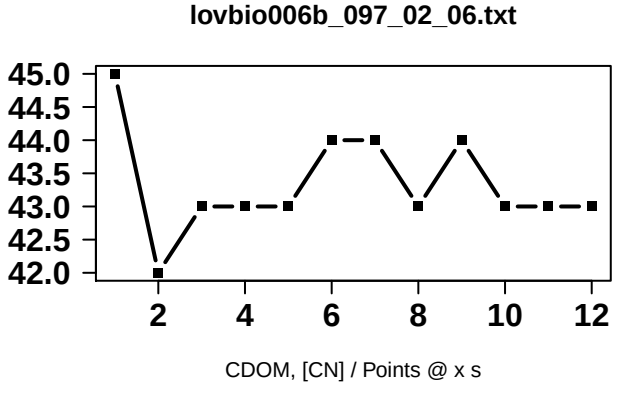

51.0
50.5
50.0
49.5
49.0
2
4
6
8
10
12
14
chl, [CN] / Points @ x s

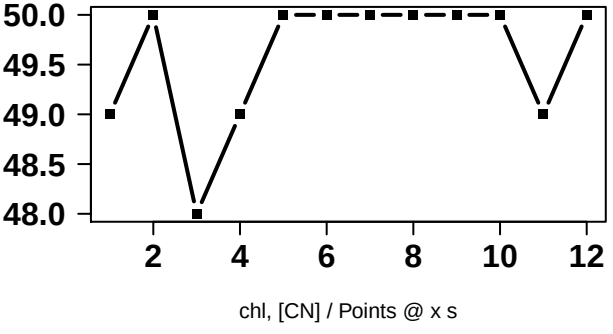

nb days: 0 freq: 0 min
160
155
150
145
140
2
4
6
8
10
12
14
beta, [CN] / Points @ x s

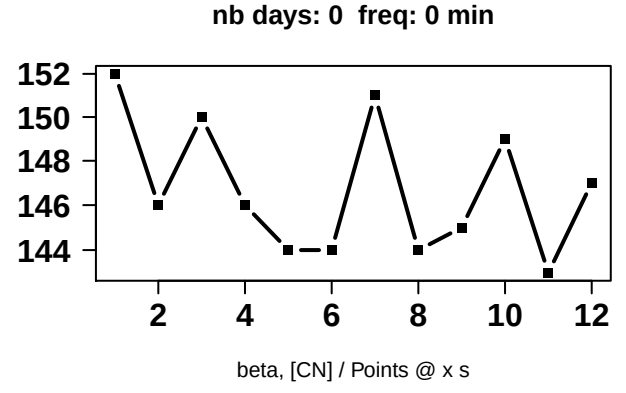

nb days: 0 freq: 0 min
25.82090
25.82089
25.82088
25.82087
25.82086
25.82085
25.82084
25.82083
1.0
1.5
2.0
2.5
3.0
c, [1/m] + 0.1 / Points @ x s

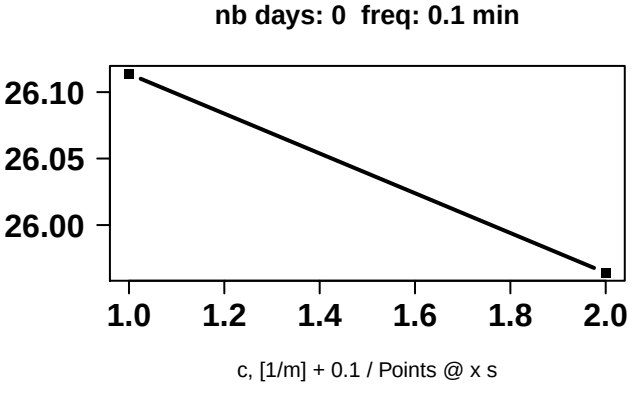

2015−05−26 17:50:07 2015−05−26 17:50:14
400
300
200
100
0
5
10
15
20
Pressure in

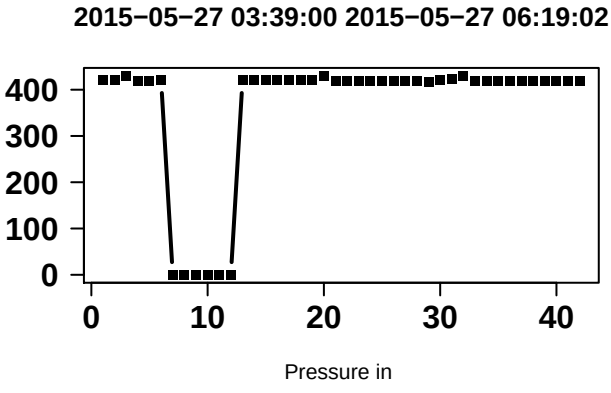

black 0.087 red 0.34
Seawater potential density anomaly
Seawater density − 1000
26.94
26.92
26.90
26.88
26.86
28.90
28.75
28.60
1.0
1.2
1.4
1.6
1.8
2.0

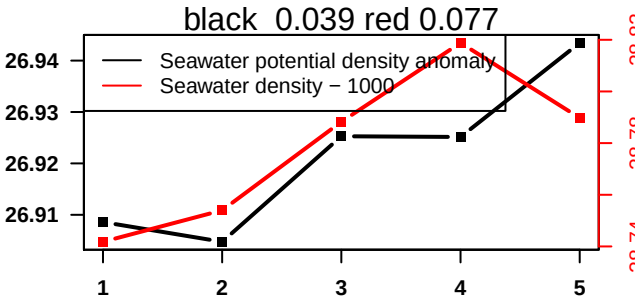

lovbio006b_097_02_06.txt
45.0
44.5
44.0
43.5
43.0
42.5
42.0
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

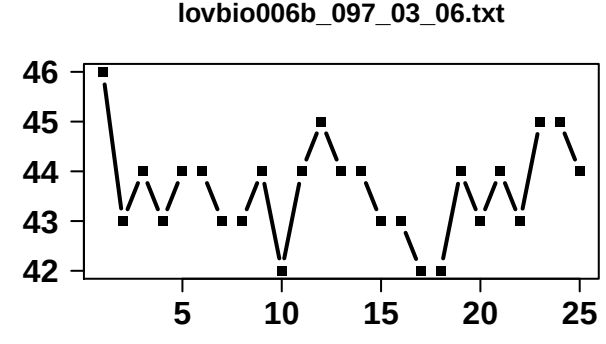

50.0
49.5
49.0
48.5
48.0
2
4
6
8
10
12
chl, [CN] / Points @ x s

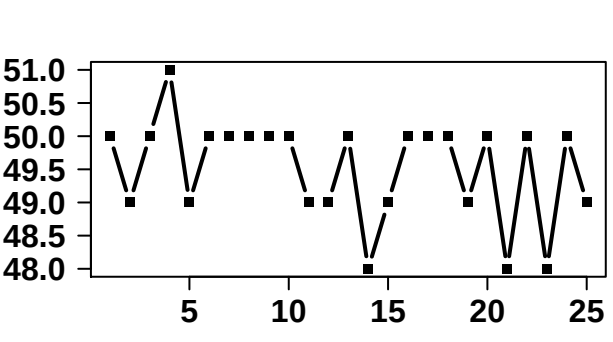

nb days: 0 freq: 0 min
152
150
148
146
144
2
4
6
8
10
12
beta, [CN] / Points @ x s

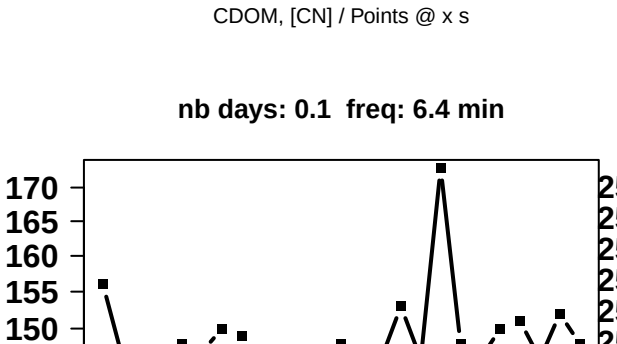

nb days: 0 freq: 0.1 min
26.10
26.05
26.00
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

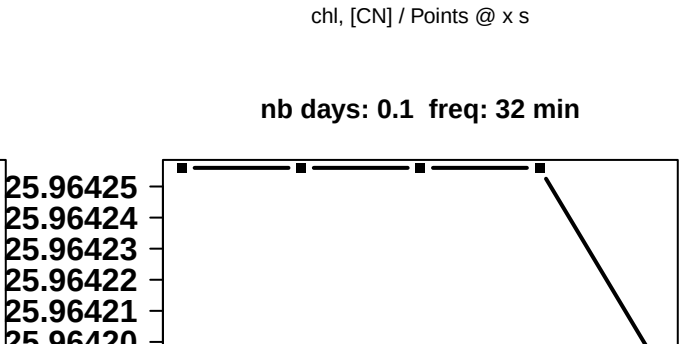

2015−05−27 03:39:00 2015−05−27 06:19:02
400
300
200
100
0
0
10
20
30
40
Pressure in

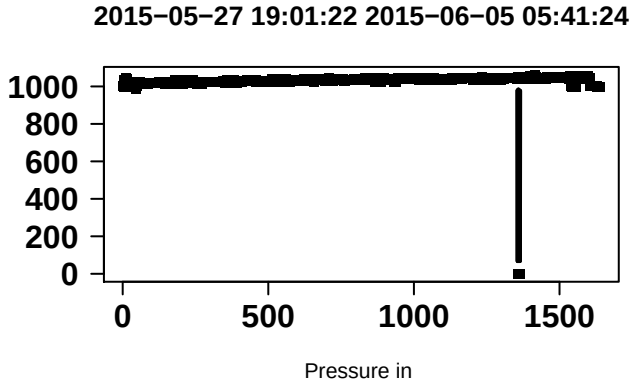

black 0.039 red 0.077
Seawater potential density anomaly
Seawater density − 1000
26.94
26.93
26.92
26.91
28.82
28.78
28.74
1
2
3
4
5

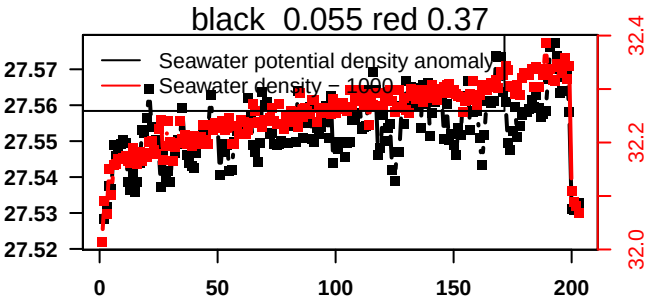

lovbio006b_097_03_06.txt
46
45
44
43
42
5
10
15
20
25
CDOM, [CN] / Points @ x s

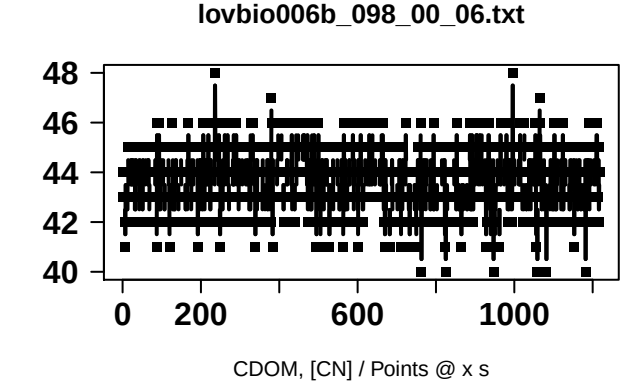

51.0
50.5
50.0
49.5
49.0
48.5
48.0
5
10
15
20
25
chl, [CN] / Points @ x s

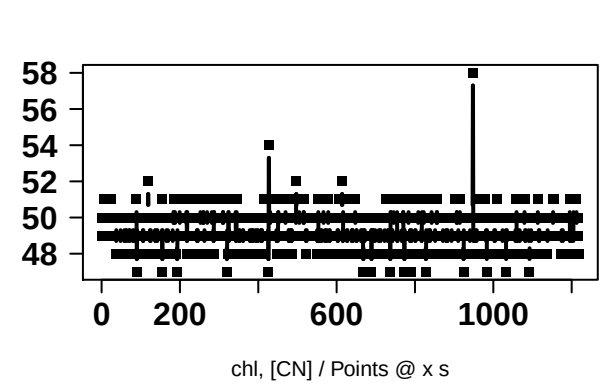

nb days: 0.1 freq: 6.4 min
170
165
160
155
150
145
5
10
15
20
25
beta, [CN] / Points @ x s

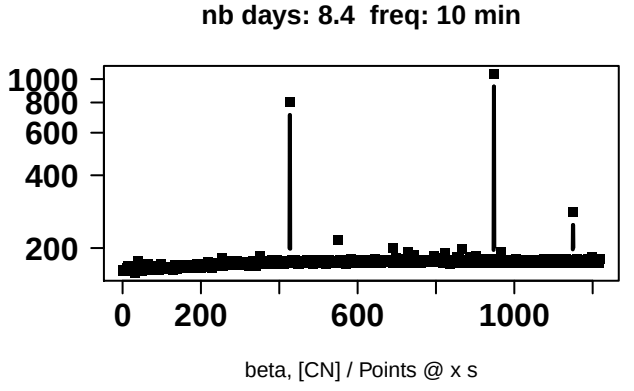

nb days: 0.1 freq: 32 min
25.96425
25.96424
25.96423
25.96422
25.96421
25.96420
25.96419
1
2
3
4
5
c, [1/m] + 0.1 / Points @ x s

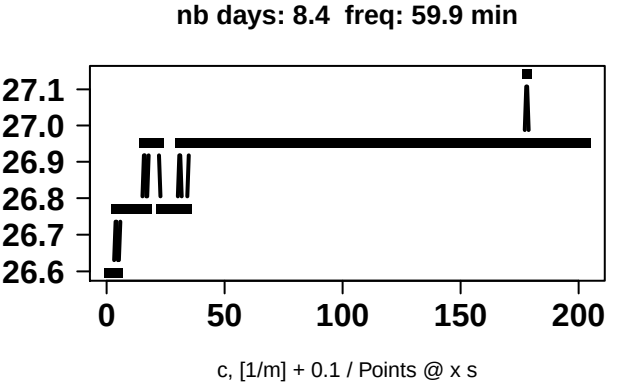

2015−05−27 19:01:22 2015−06−05 05:41:24
1000
800
600
400
200
0
0
500
1000
1500
Pressure in

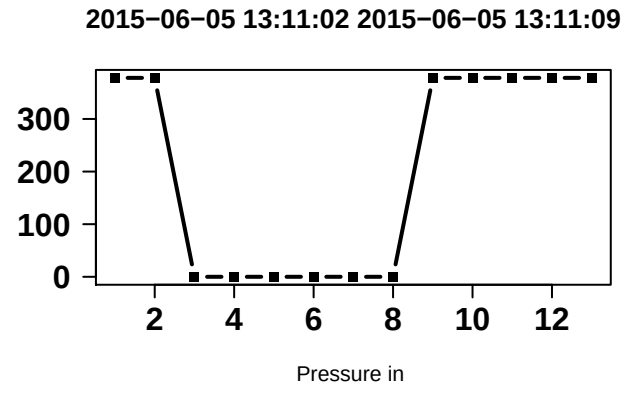

black 0.055 red 0.37
Seawater potential density anomaly
Seawater density − 1000
27.57
27.56
27.55
27.54
27.53
27.52
32.4
32.2
32.0
0
50
100
150
200

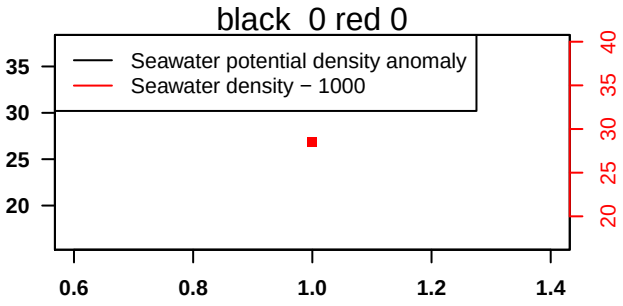

lovbio006b_098_00_06.txt
48
46
44
42
40
0
200
600
1000
CDOM, [CN] / Points @ x s

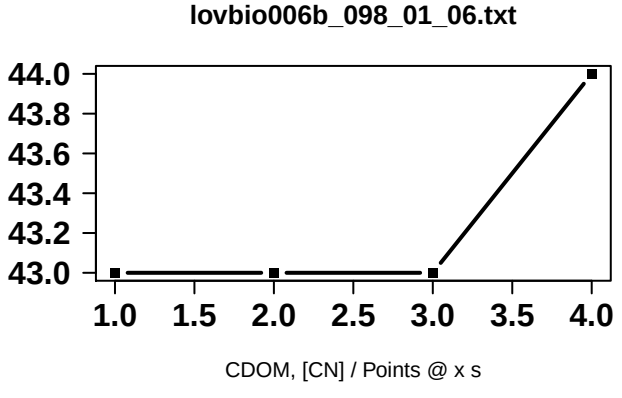

58
56
54
52
50
48
0
200
600
1000
chl, [CN] / Points @ x s

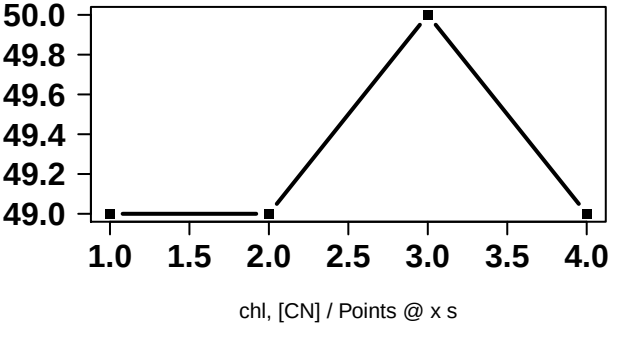

nb days: 8.4 freq: 10 min
1000
800
600
400
200
0
200
600
1000
beta, [CN] / Points @ x s

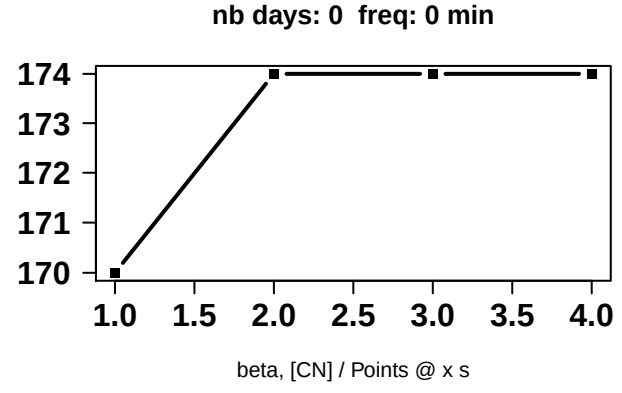

nb days: 8.4 freq: 59.9 min
27.1
27.0
26.9
26.8
26.7
26.6
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

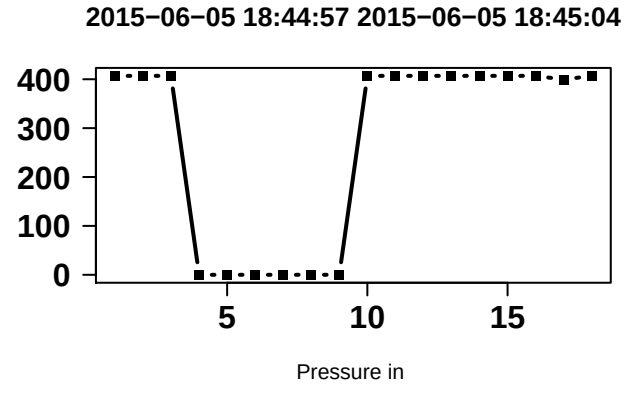

2015−06−05 13:11:02 2015−06−05 13:11:09
300
200
100
0
2
4
6
8
10
12
Pressure in

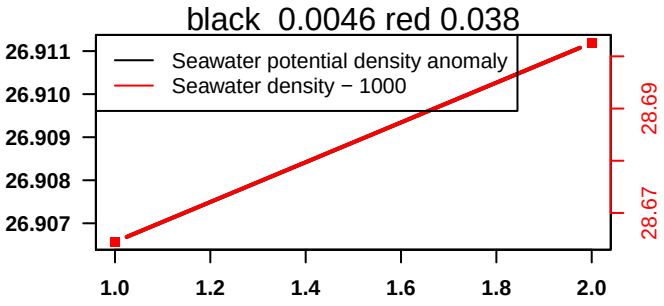

black 0 red 0
Seawater potential density anomaly
Seawater density − 1000
35
30
25
20
0.6
0.8
1.0
1.2
1.4
40
35
30
25
20

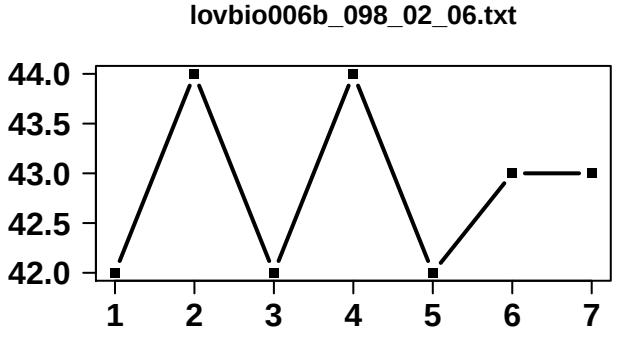

lovbio006b_098_01_06.txt
44.0
43.8
43.6
43.4
43.2
43.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
CDOM, [CN] / Points @ x s

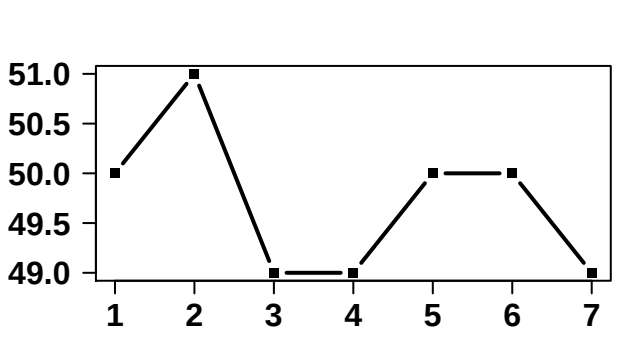

50.0
49.8
49.6
49.4
49.2
49.0
1.0
1.5
2.0
2.5
3.0
3.5
4.0
chl, [CN] / Points @ x s

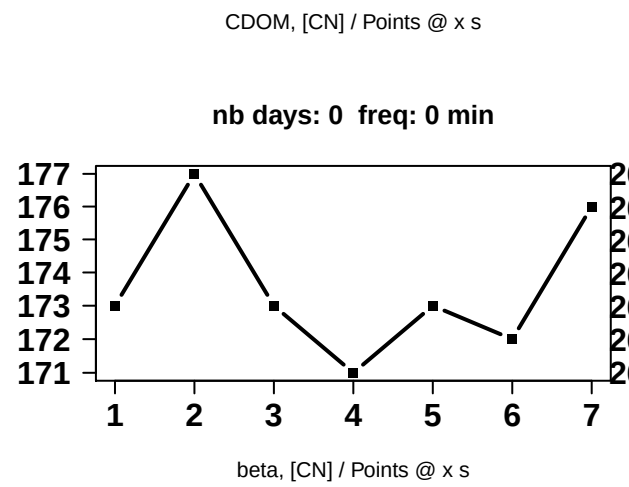

nb days: 0 freq: 0 min
174
173
172
171
170
1.0
1.5
2.0
2.5
3.0
3.5
4.0
beta, [CN] / Points @ x s

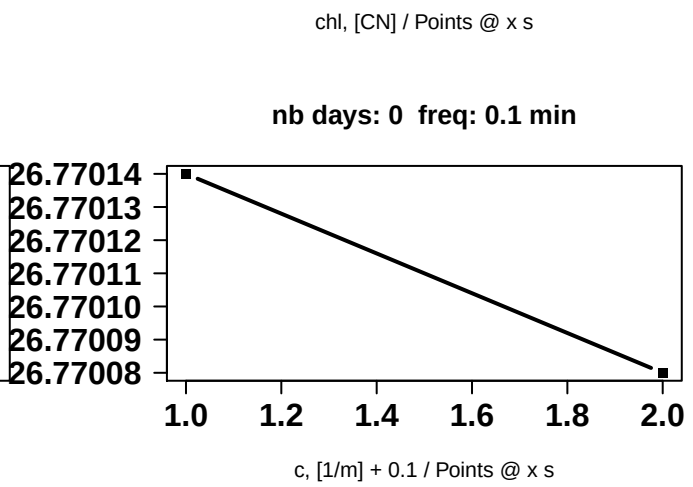

2015−06−05 18:44:57 2015−06−05 18:45:04
400
300
200
100
0
5
10
15
Pressure in

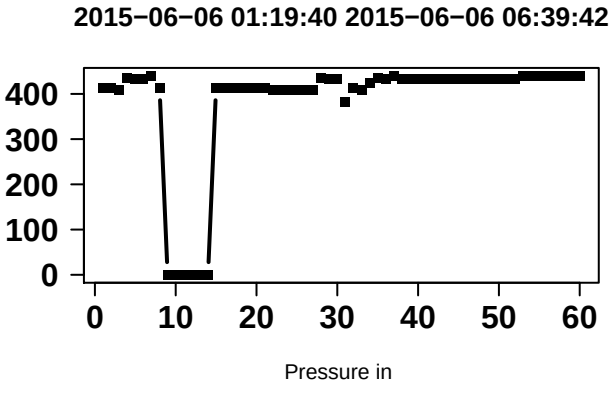

black 0.0046 red 0.038
Seawater potential density anomaly
Seawater density − 1000
26.911
26.910
26.909
26.908
26.907
28.69
28.67
1.0
1.2
1.4
1.6
1.8
2.0

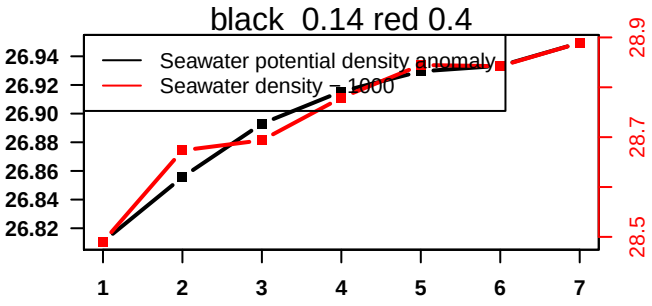

lovbio006b_098_02_06.txt
44.0
43.5
43.0
42.5
42.0
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

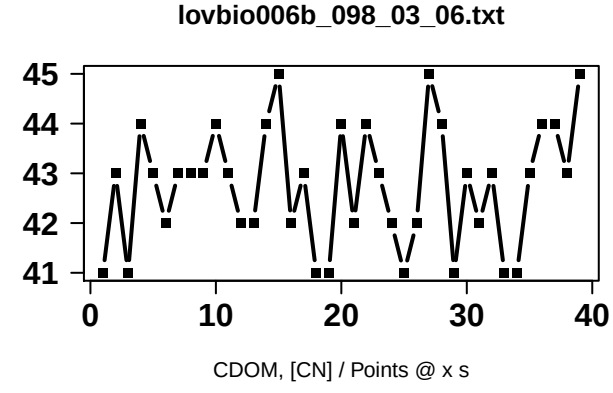

51.0
50.5
50.0
49.5
49.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

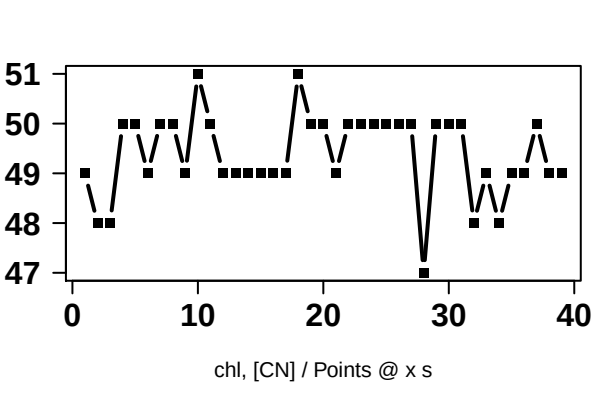

nb days: 0 freq: 0 min
177
176
175
174
173
172
171
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

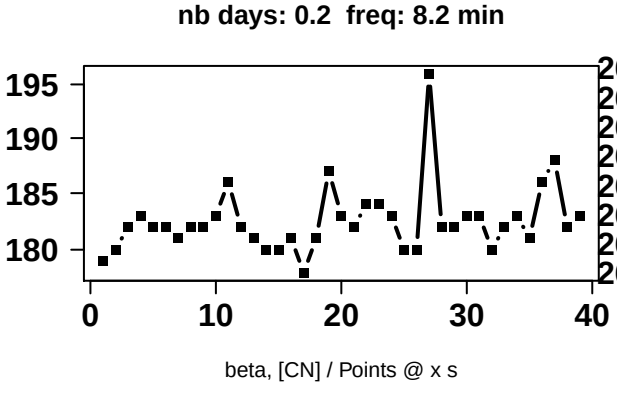

nb days: 0 freq: 0.1 min
26.77014
26.77013
26.77012
26.77011
26.77010
26.77009
26.77008
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

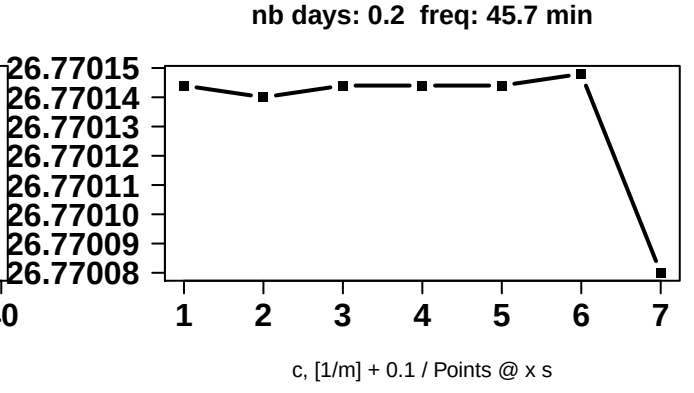

2015−06−06 01:19:40 2015−06−06 06:39:42
400
300
200
100
0
0
10
20
30
40
50
60
Pressure in

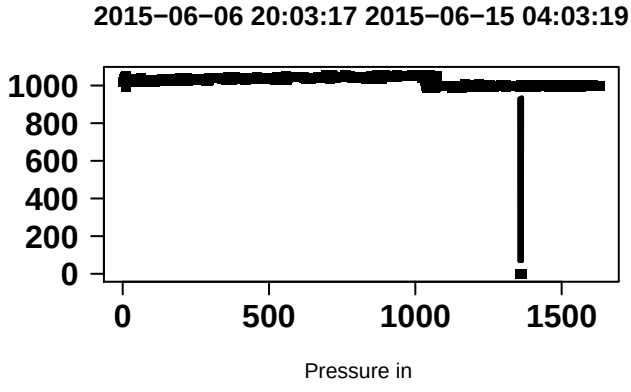

black 0.14 red 0.4
Seawater potential density anomaly
Seawater density − 1000
26.94
26.92
26.90
26.88
26.86
26.84
26.82
28.9
28.7
28.5
1
2
3
4
5
6
7

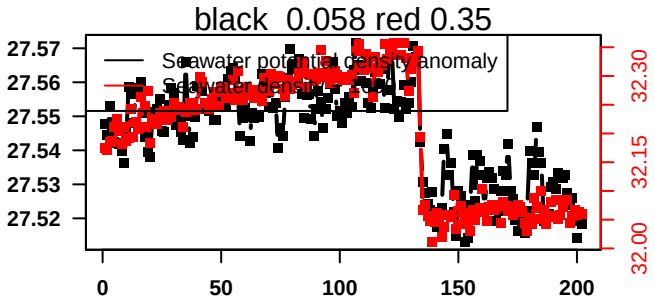

lovbio006b_098_03_06.txt
45
44
43
42
41
0
10
20
30
40
CDOM, [CN] / Points @ x s

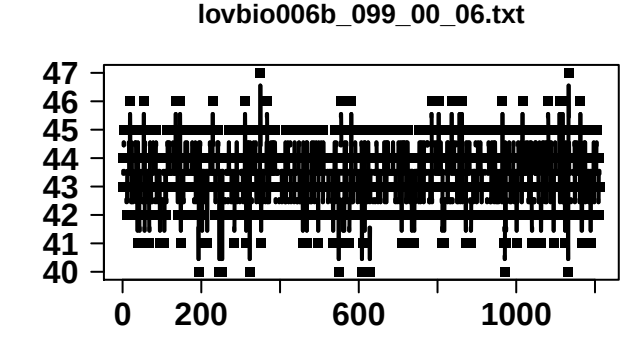

51
50
49
48
47
0
10
20
30
40
chl, [CN] / Points @ x s

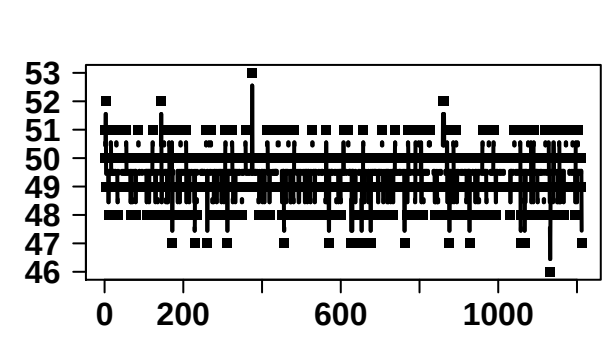

nb days: 0.2 freq: 8.2 min
195
190
185
180
0
10
20
30
40
beta, [CN] / Points @ x s

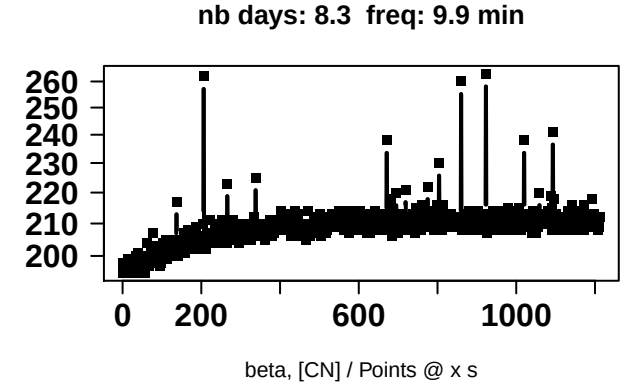

nb days: 0.2 freq: 45.7 min
26.77015
26.77014
26.77013
26.77012
26.77011
26.77010
26.77009
26.77008
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

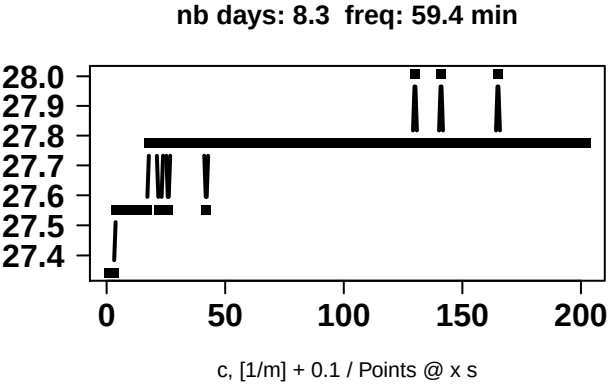

2015−06−06 20:03:17 2015−06−15 04:03:19
1000
800
600
400
200
0
0
500
1000
1500
Pressure in

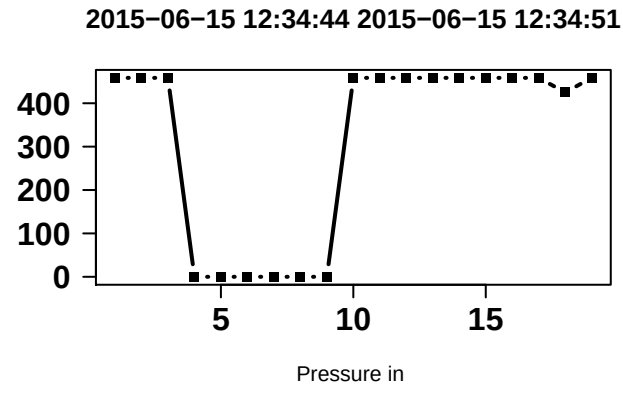

black 0.058 red 0.35
Seawater potential density anomaly
Seawater density
27.57
27.56
27.55
27.54
27.53
27.52
32.30
32.15
32.00
0
50
100
150
200

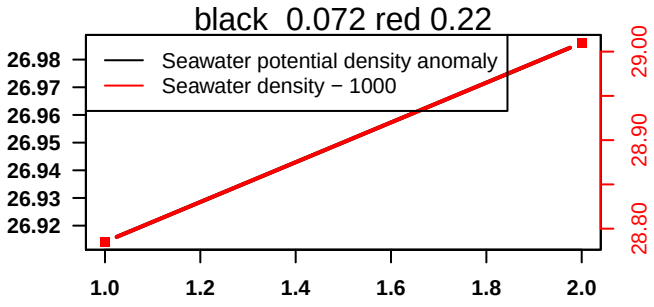

lovbio006b_099_00_06.txt
47
46
45
44
43
42
41
40
0
200
600
1000
CDOM, [CN] / Points @ x s

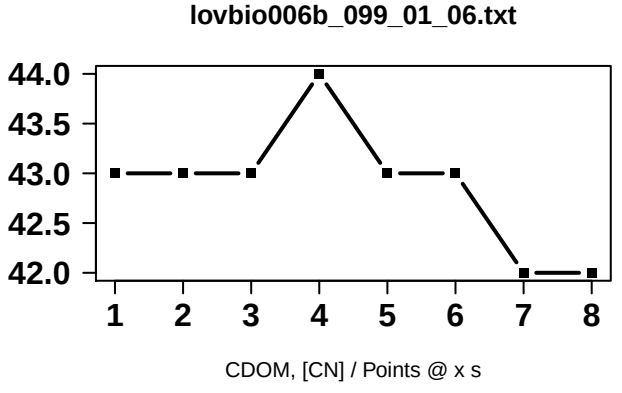

53
52
51
50
49
48
47
46
0
200
600
1000
chl, [CN] / Points @ x s

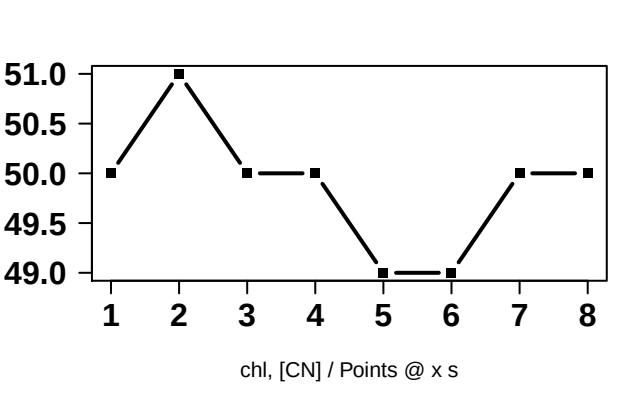

nb days: 8.3 freq: 9.9 min
260
250
240
230
220
210
200
0
200
600
1000
beta, [CN] / Points @ x s

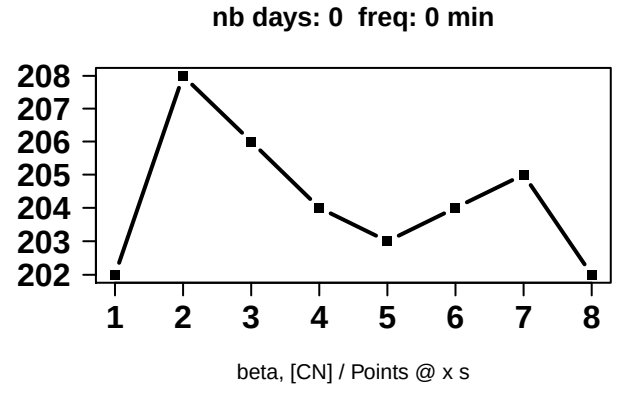

nb days: 8.3 freq: 59.4 min
28.0
27.9
27.8
27.7
27.6
27.5
27.4
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

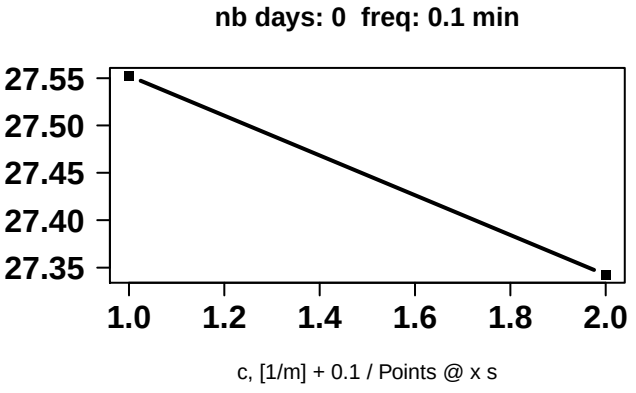

2015−06−15 12:34:44 2015−06−15 12:34:51
400
300
200
100
0
5
10
15
Pressure in

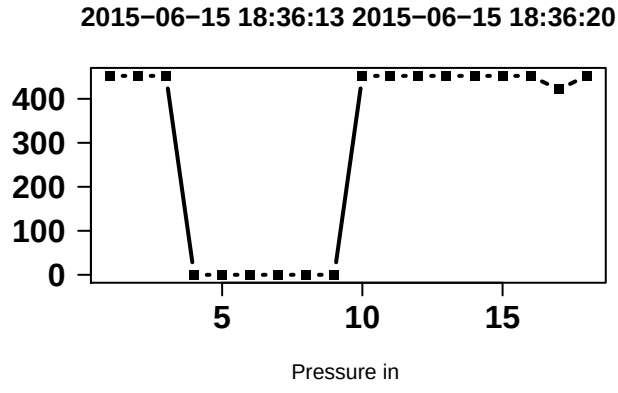

black 0.072 red 0.22
Seawater potential density anomaly
Seawater density − 1000
26.98
26.97
26.96
26.95
26.94
26.93
26.92
29.00
28.90
28.80
1.0
1.2
1.4
1.6
1.8
2.0

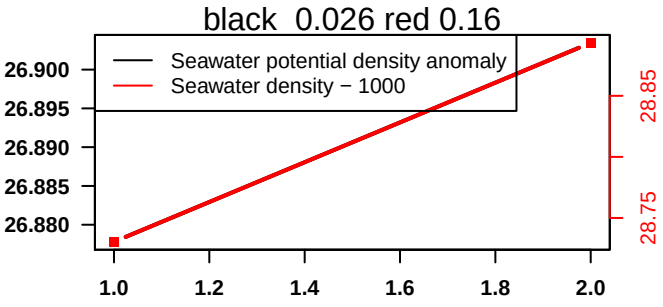

lovbio006b_099_01_06.txt
44.0
43.5
43.0
42.5
42.0
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

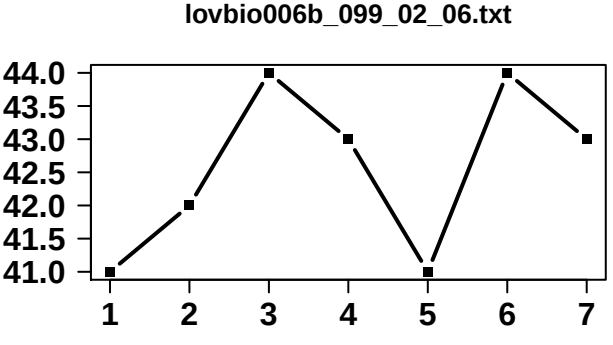

51.0
50.5
50.0
49.5
49.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

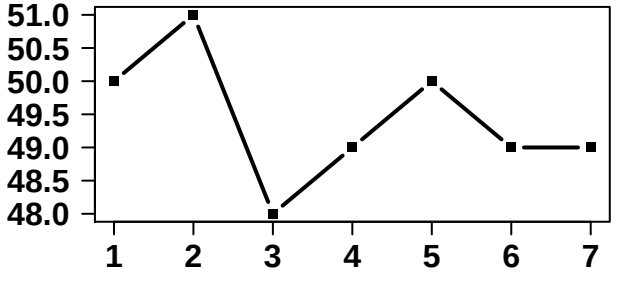

nb days: 0 freq: 0 min
208
207
206
205
204
203
202
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

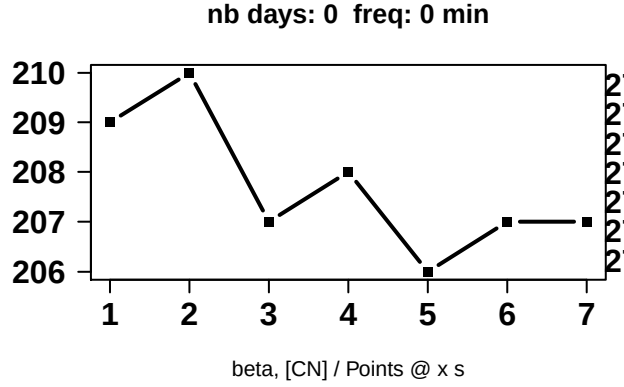

nb days: 0 freq: 0.1 min
27.55
27.50
27.45
27.40
27.35
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

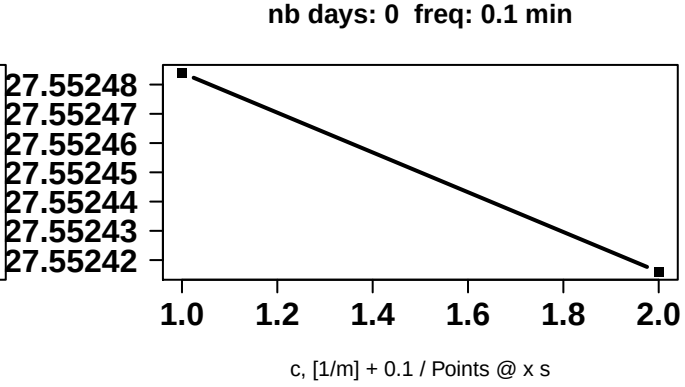

2015−06−15 18:36:13 2015−06−15 18:36:20
400
300
200
100
0
5
10
15
Pressure in

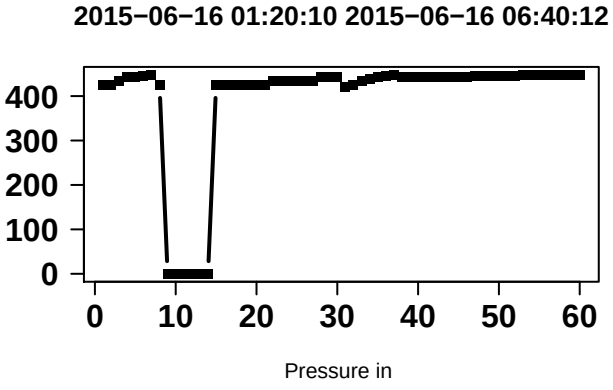

black 0.026 red 0.16
Seawater potential density anomaly
Seawater density − 1000
26.900
26.895
26.890
26.885
26.880
28.85
28.75
1.0
1.2
1.4
1.6
1.8
2.0

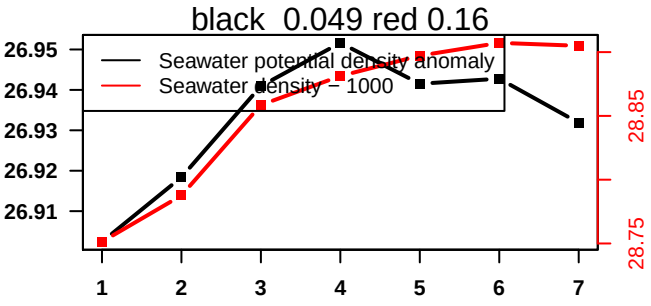

lovbio006b_099_02_06.txt
44.0
43.5
43.0
42.5
42.0
41.5
41.0
1
2
3
4
5
6
7
CDOM, [CN] / Points @ x s

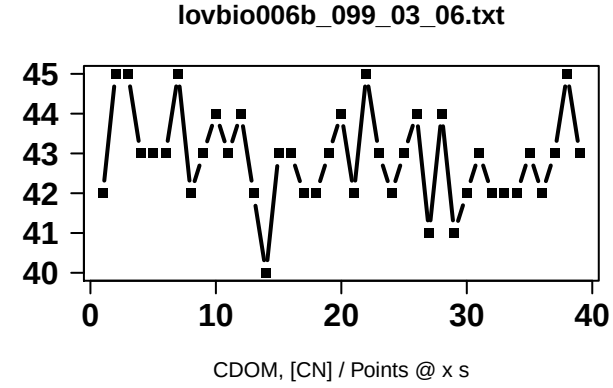

51.0
50.5
50.0
49.5
49.0
48.5
48.0
1
2
3
4
5
6
7
chl, [CN] / Points @ x s

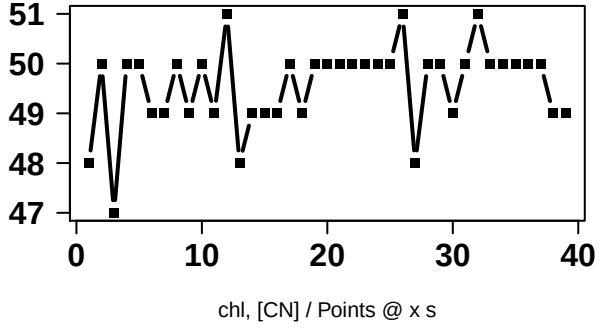

nb days: 0 freq: 0 min
210
209
208
207
206
1
2
3
4
5
6
7
beta, [CN] / Points @ x s

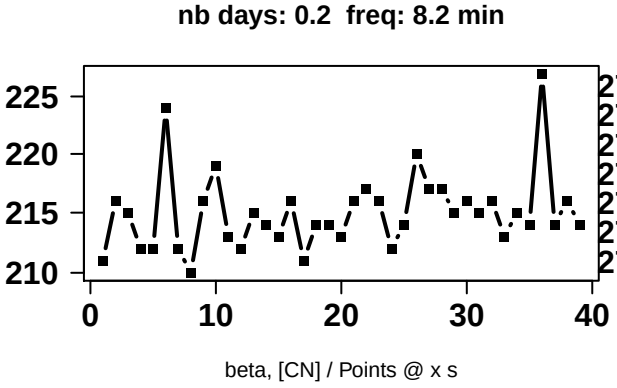

nb days: 0 freq: 0.1 min
27.55248
27.55247
27.55246
27.55245
27.55244
27.55243
27.55242
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

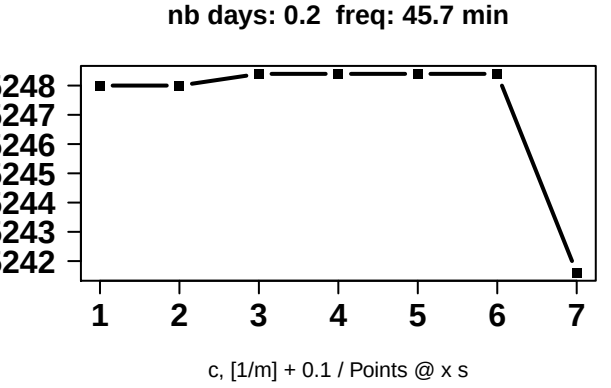

2015−06−16 01:20:10 2015−06−16 06:40:12
400
300
200
100
0
0
10
20
30
40
50
60
Pressure in

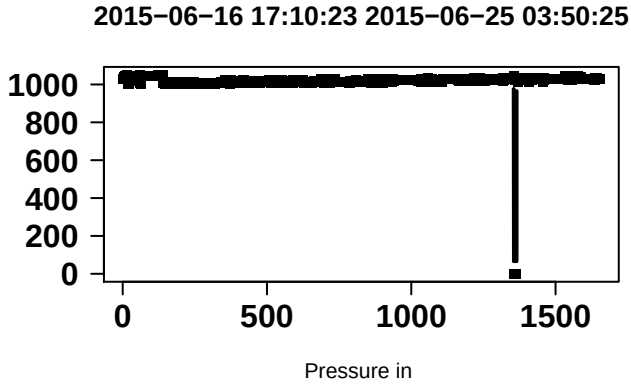

black 0.049 red 0.16
Seawater potential density anomaly
Seawater density − 1000
26.95
26.94
26.93
26.92
26.91
28.85
28.75
1
2
3
4
5
6
7

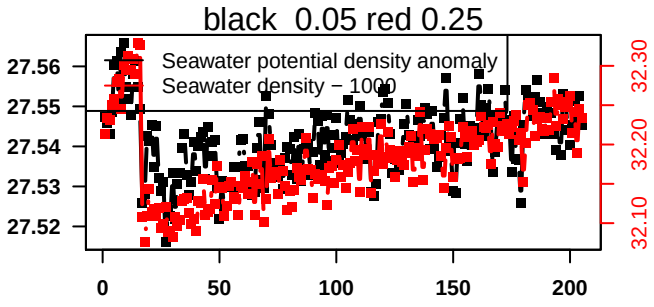

lovbio006b_099_03_06.txt
45
44
43
42
41
40
0
10
20
30
40
CDOM, [CN] / Points @ x s

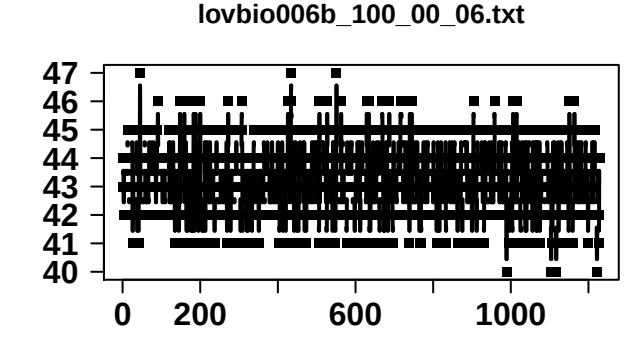

51
50
49
48
47
0
10
20
30
40
chl, [CN] / Points @ x s

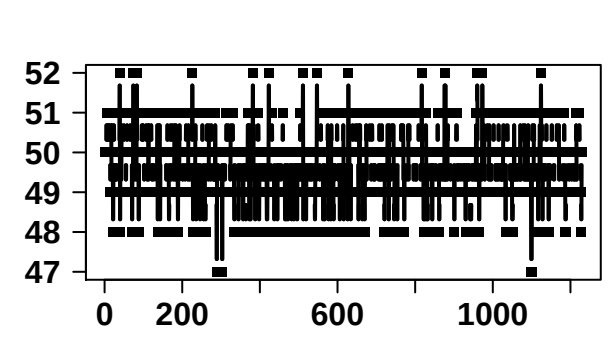

nb days: 0.2 freq: 8.2 min
225
220
215
210
0
10
20
30
40
beta, [CN] / Points @ x s

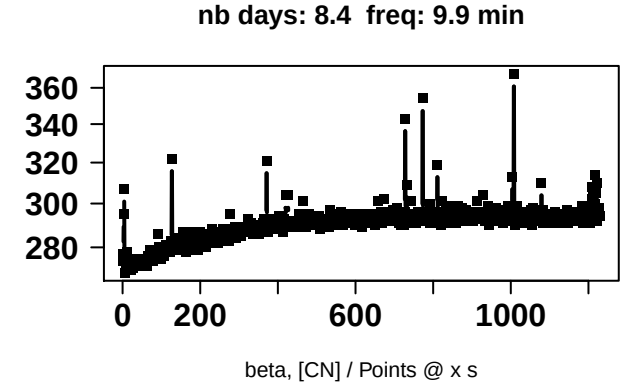

nb days: 0.2 freq: 45.7 min
27.55248
27.55247
27.55246
27.55245
27.55244
27.55243
27.55242
1
2
3
4
5
6
7
c, [1/m] + 0.1 / Points @ x s

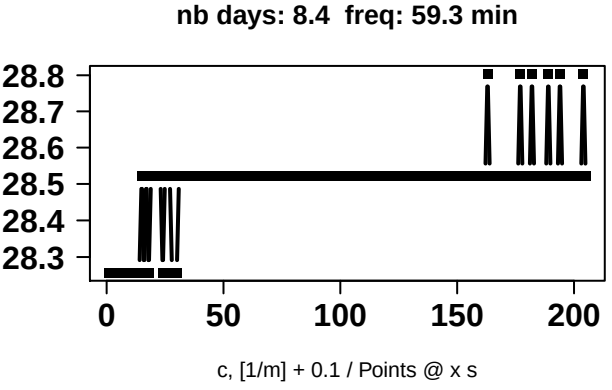

2015−06−16 17:10:23 2015−06−25 03:50:25
1000
800
600
400
200
0
0
500
1000
1500
Pressure in

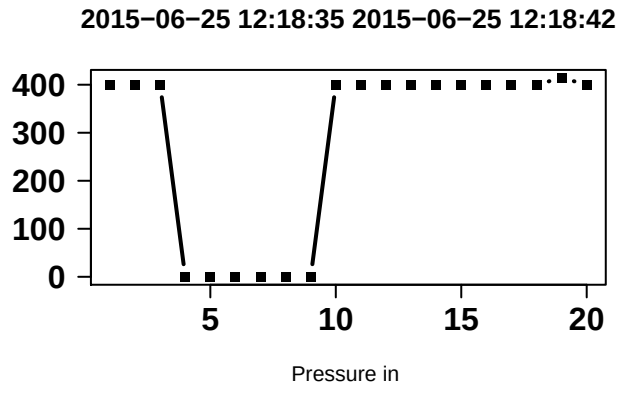

black 0.05 red 0.25
Seawater potential density anomaly
Seawater density − 1000
27.56
27.55
27.54
27.53
27.52
32.30
32.20
32.10
0
50
100
150
200

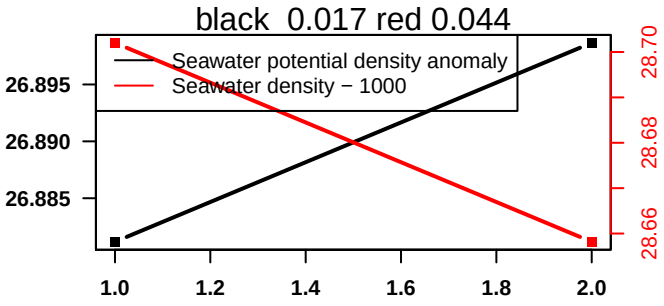

lovbio006b_100_00_06.txt
47
46
45
44
43
42
41
40
0
200
600
1000
CDOM, [CN] / Points @ x s

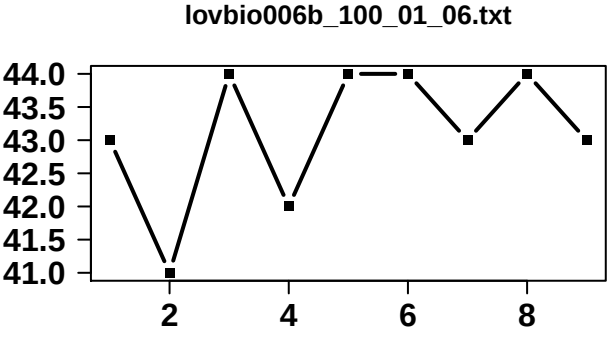

52
51
50
49
48
47
0
200
600
1000
chl, [CN] / Points @ x s

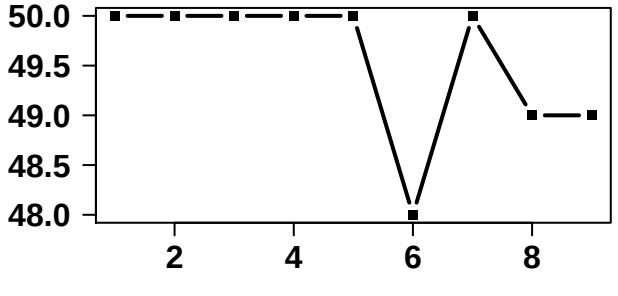

nb days: 8.4 freq: 9.9 min
360
340
320
300
280
0
200
600
1000
beta, [CN] / Points @ x s

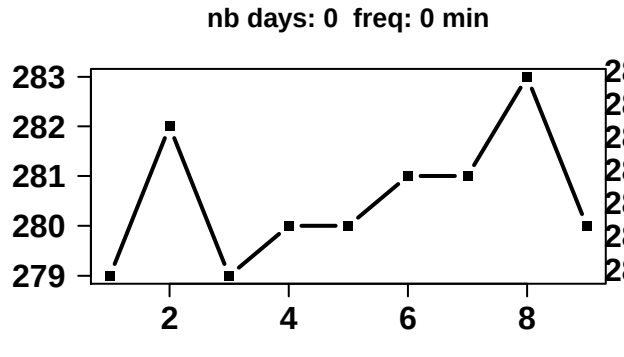

nb days: 8.4 freq: 59.3 min
28.8
28.7
28.6
28.5
28.4
28.3
0
50
100
150
200
c, [1/m] + 0.1 / Points @ x s

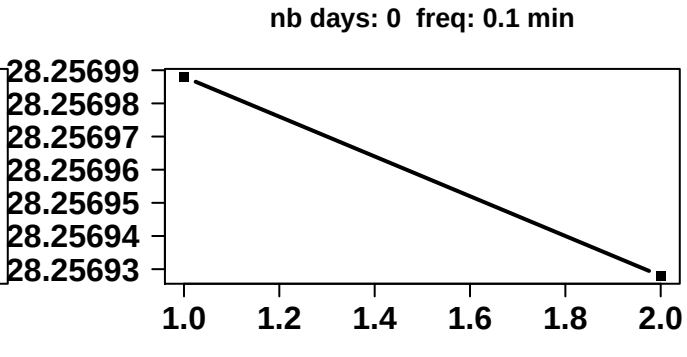

2015−06−25 12:18:35 2015−06−25 12:18:42
400
300
200
100
0
5
10
15
20
Pressure in

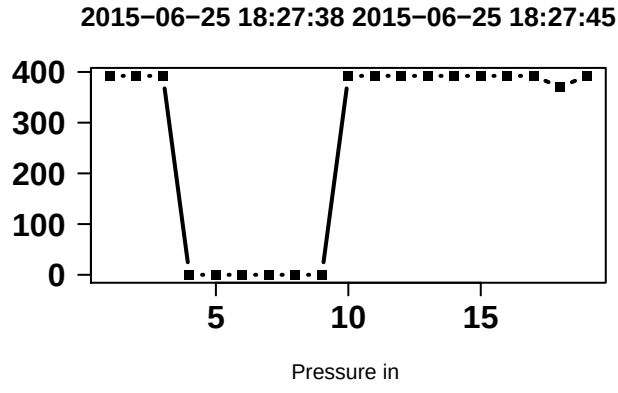

black 0.017 red 0.044
Seawater potential density anomaly
Seawater density − 1000
26.895
26.890
26.885
28.70
28.68
28.66
1.0
1.2
1.4
1.6
1.8
2.0

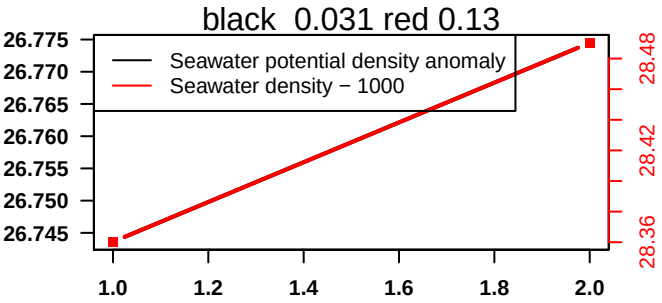

lovbio006b_100_01_06.txt
44.0
43.5
43.0
42.5
42.0
41.5
41.0
2
4
6
8
CDOM, [CN] / Points @ x s

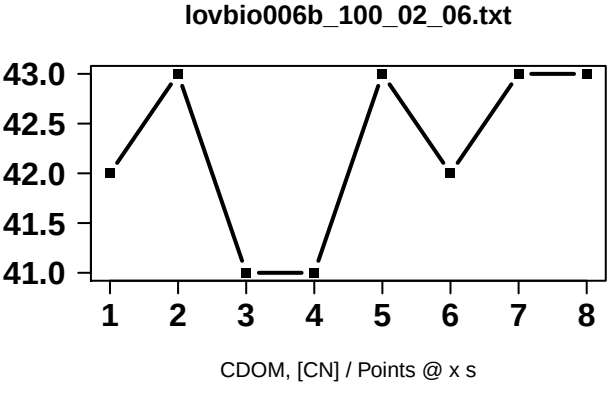

50.0
49.5
49.0
48.5
48.0
2
4
6
8
chl, [CN] / Points @ x s

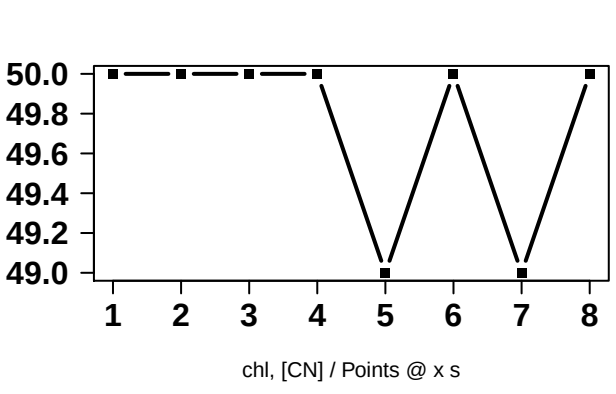

nb days: 0 freq: 0 min
283
282
281
280
279
2
4
6
8
beta, [CN] / Points @ x s

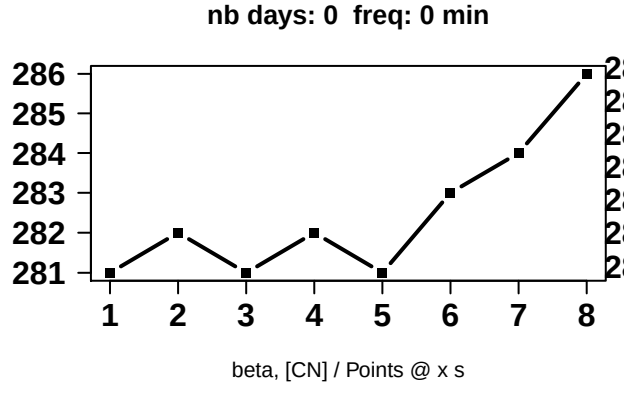

nb days: 0 freq: 0.1 min
28.25699
28.25698
28.25697
28.25696
28.25695
28.25694
28.25693
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

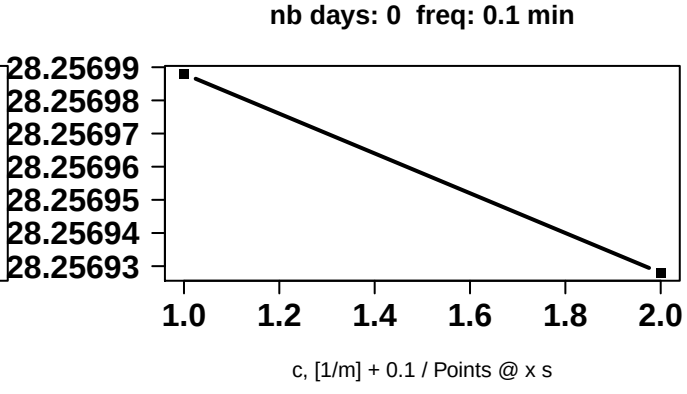

2015−06−25 18:27:38 2015−06−25 18:27:45
400
300
200
100
0
5
10
15
Pressure in

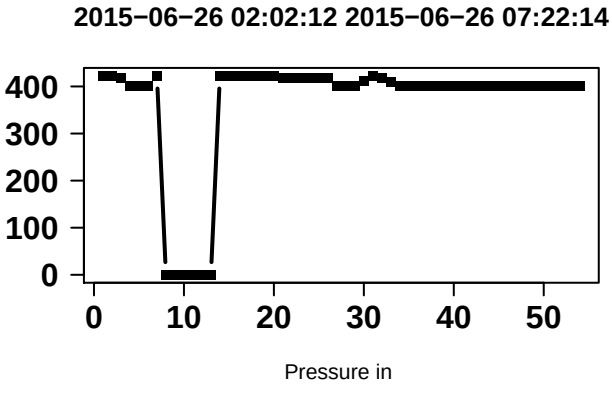

black 0.031 red 0.13
Seawater potential density anomaly
Seawater density − 1000
26.775
26.770
26.765
26.760
26.755
26.750
26.745
28.48
28.42
28.36
1.0
1.2
1.4
1.6
1.8
2.0

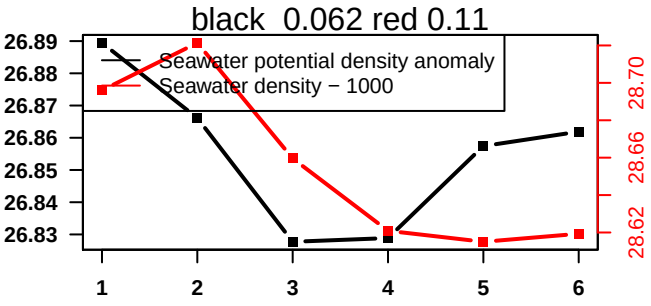

lovbio006b_100_02_06.txt
43.0
42.5
42.0
41.5
41.0
1
2
3
4
5
6
7
8
CDOM, [CN] / Points @ x s

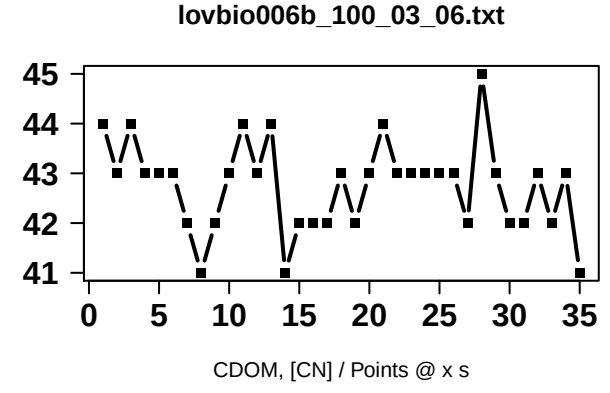

50.0
49.8
49.6
49.4
49.2
49.0
1
2
3
4
5
6
7
8
chl, [CN] / Points @ x s

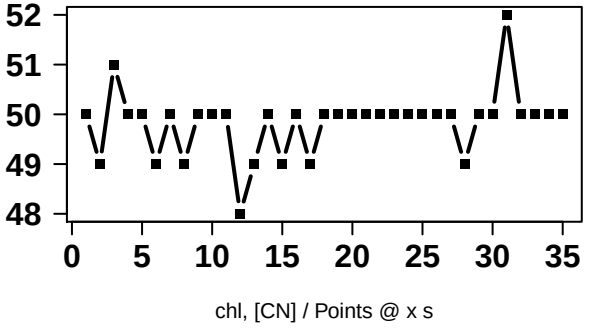

nb days: 0 freq: 0 min
286
285
284
283
282
281
1
2
3
4
5
6
7
8
beta, [CN] / Points @ x s

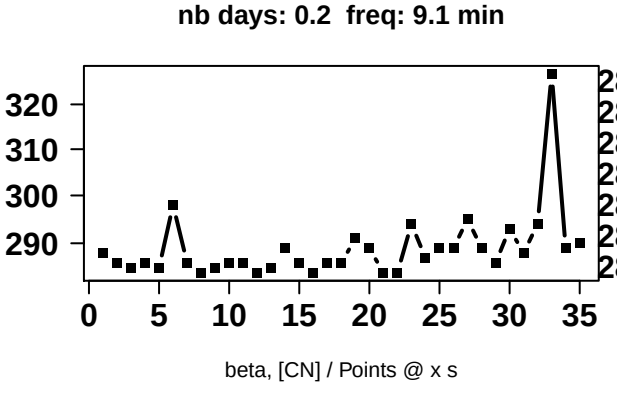

nb days: 0 freq: 0.1 min
28.25699
28.25698
28.25697
28.25696
28.25695
28.25694
28.25693
1.0
1.2
1.4
1.6
1.8
2.0
c, [1/m] + 0.1 / Points @ x s

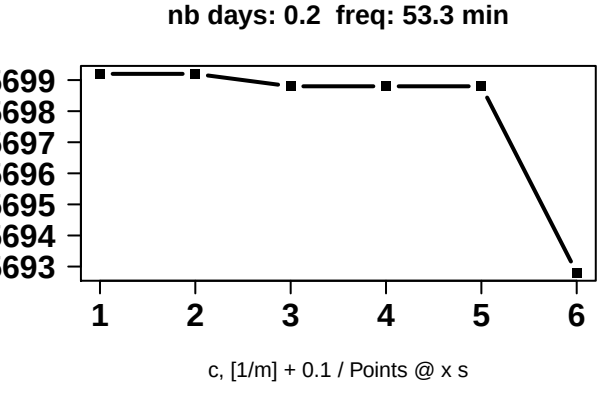

2015−06−26 02:02:12 2015−06−26 07:22:14
400
300
200
100
0
0
10
20
30
40
50
Pressure in


black 0.062 red 0.11
Seawater potential density anomaly
Seawater density − 1000
26.89
26.88
26.87
26.86
26.85
26.84
26.83
28.70
28.66
28.62
1
2
3
4
5
6


lovbio006b_100_03_06.txt
45
44
43
42
41
0
5
10
15
20
25
30
35
CDOM, [CN] / Points @ x s


52
51
50
49
48
0
5
10
15
20
25
30
35
chl, [CN] / Points @ x s


nb days: 0.2 freq: 9.1 min
320
310
300
290
0
5
10
15
20
25
30
35
beta, [CN] / Points @ x s


nb days: 0.2 freq: 53.3 min
28.25699
28.25698
28.25697
28.25696
28.25695
28.25694
28.25693
1
2
3
4
5
6
c, [1/m] + 0.1 / Points @ x s