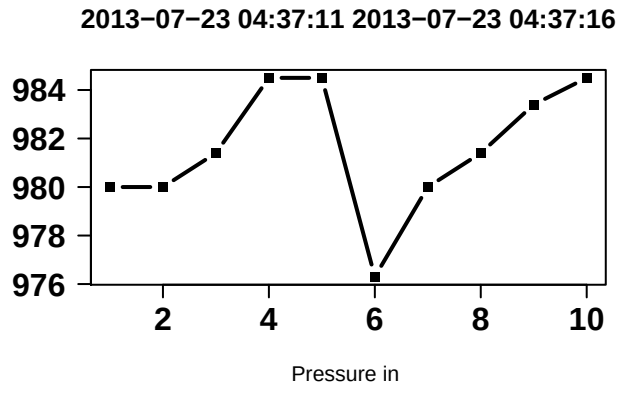
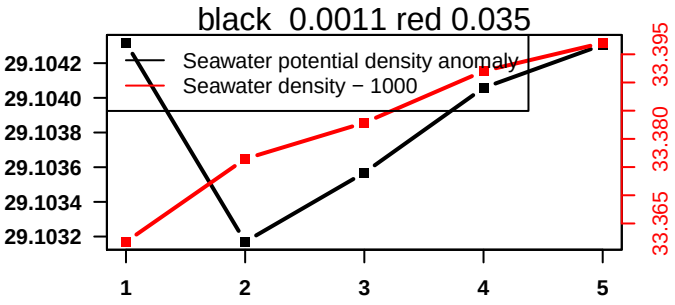
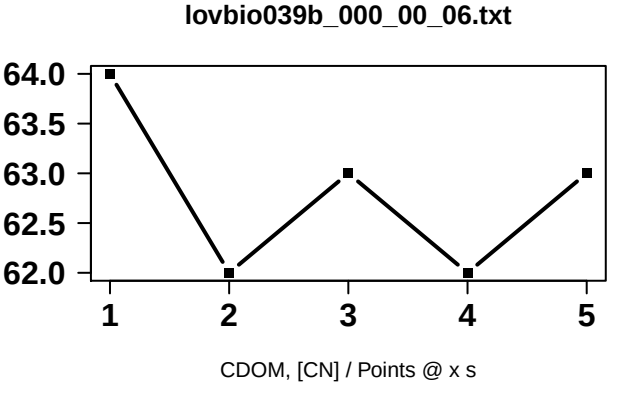
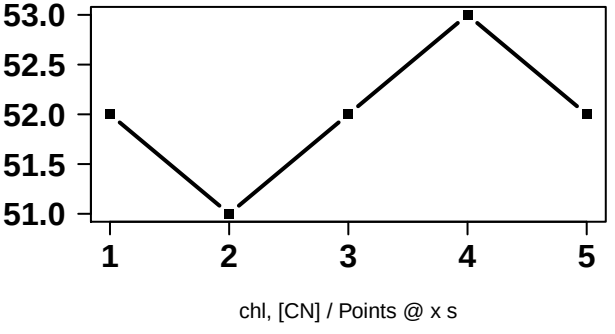
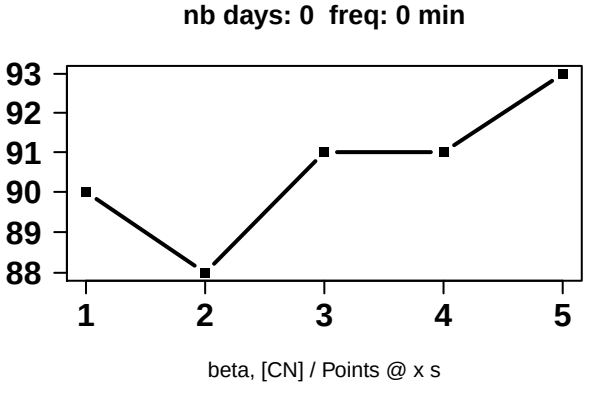
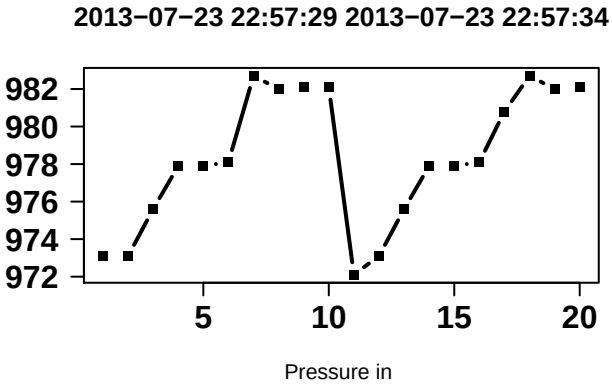

2013−07−23 04:37:11 2013−07−23 04:37:16
984
982
980
978
976
2
4
6
8
10
Pressure in

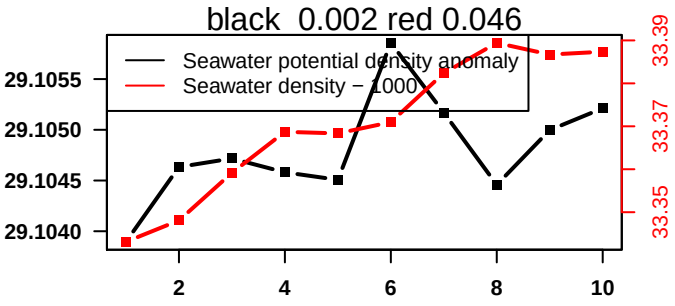

black 0.0011 red 0.035
Seawater potential density anomaly
Seawater density − 1000
29.1042
29.1040
29.1038
29.1036
29.1034
29.1032
33.395
33.380
33.365
1
2
3
4
5

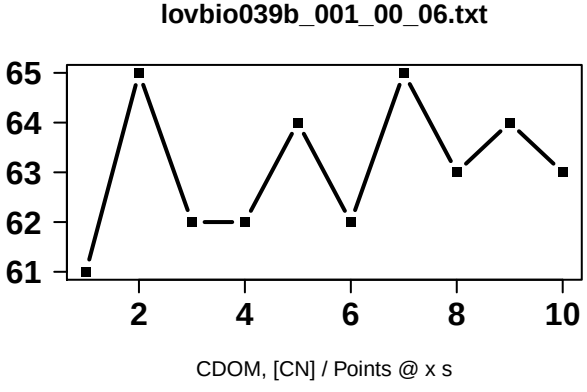

lovbio039b_000_00_06.txt
64.0
63.5
63.0
62.5
62.0
1
2
3
4
5
CDOM, [CN] / Points @ x s

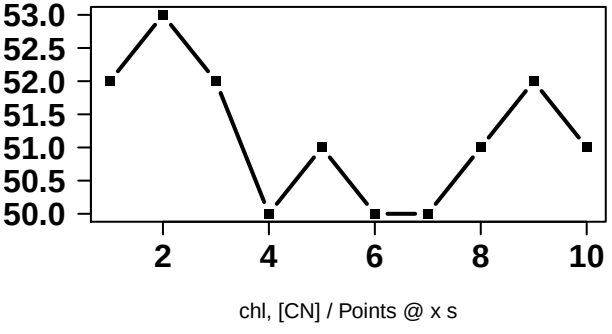

53.0
52.5
52.0
51.5
51.0
1
2
3
4
5
chl, [CN] / Points @ x s

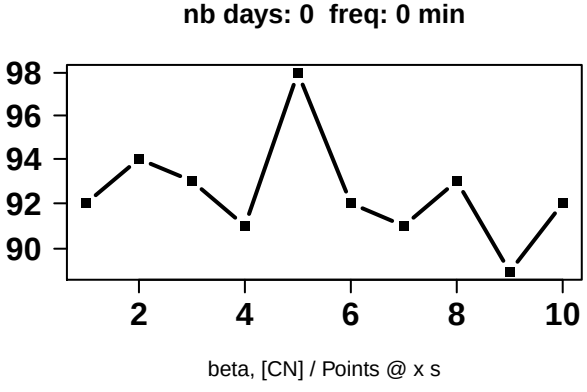

nb days: 0 freq: 0 min
93
92
91
90
89
88
1
2
3
4
5
beta, [CN] / Points @ x s

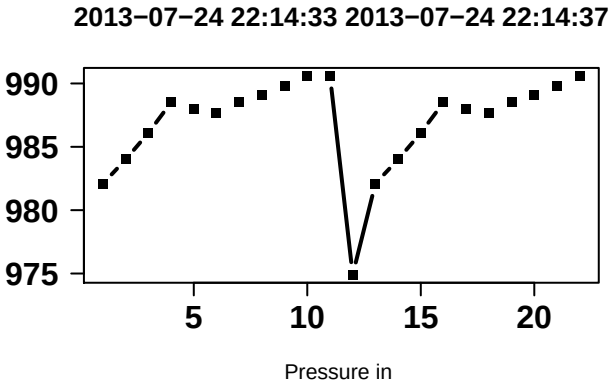

2013−07−23 22:57:29 2013−07−23 22:57:34
982
980
978
976
974
972
5
10
15
20
Pressure in

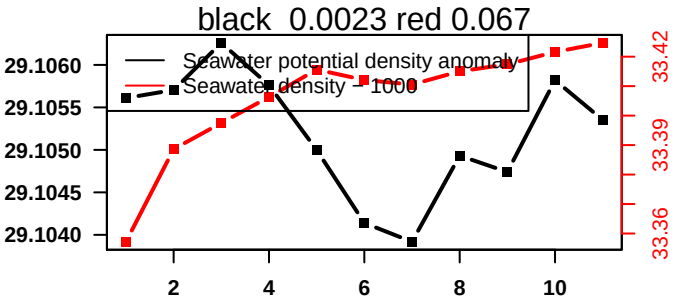

black 0.002 red 0.046
Seawater potential density anomaly
Seawater density − 1000
29.1055
29.1050
29.1045
29.1040
33.39
33.37
33.35
2
4
6
8
10

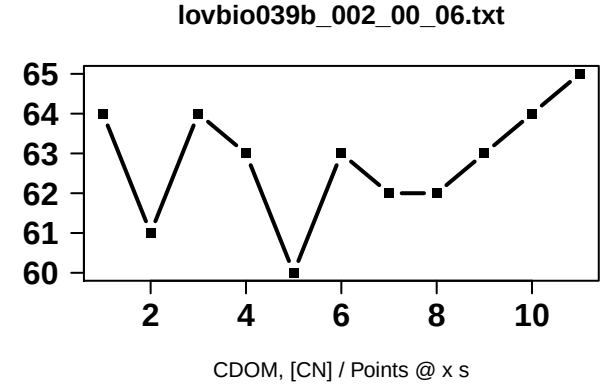

lovbio039b_001_00_06.txt
65
64
63
62
61
2
4
6
8
10
CDOM, [CN] / Points @ x s

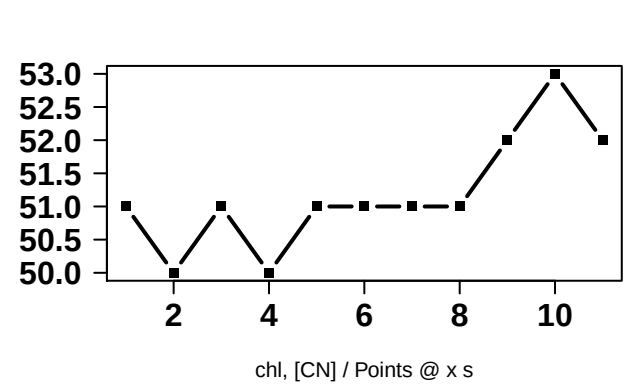

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

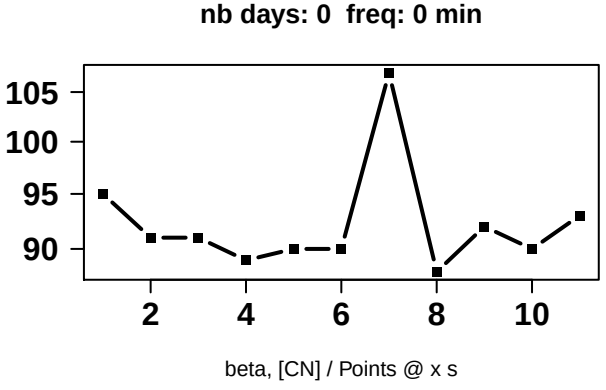

nb days: 0 freq: 0 min
98
96
94
92
90
2
4
6
8
10
beta, [CN] / Points @ x s

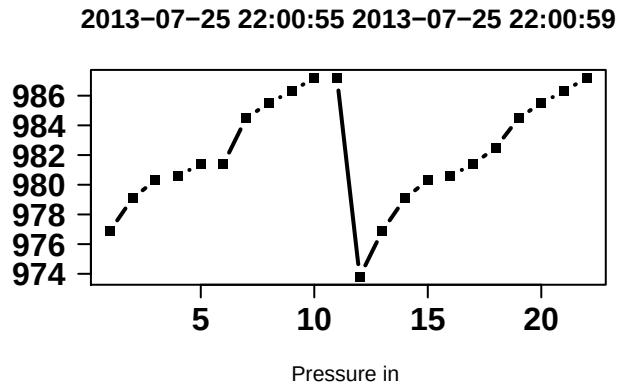

2013−07−24 22:14:33 2013−07−24 22:14:37
990
985
980
975
5
10
15
20
Pressure in

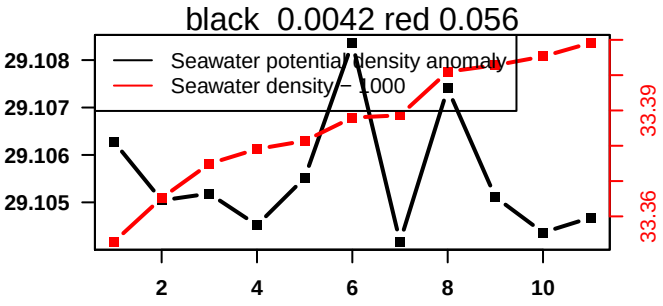

black 0.0023 red 0.067
Seawater potential density anomaly
Seawater density − 1000
29.1060
29.1055
29.1050
29.1045
29.1040
33.42
33.39
33.36
2
4
6
8
10

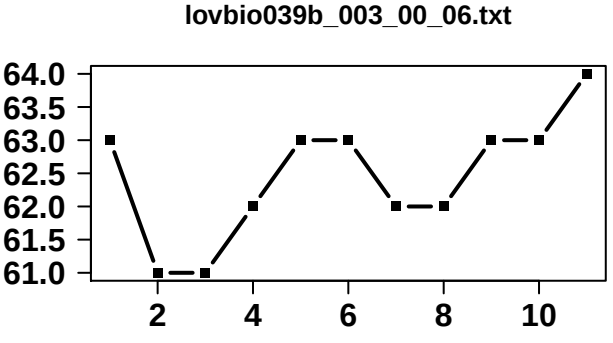

lovbio039b_002_00_06.txt
65
64
63
62
61
60
2
4
6
8
10
CDOM, [CN] / Points @ x s

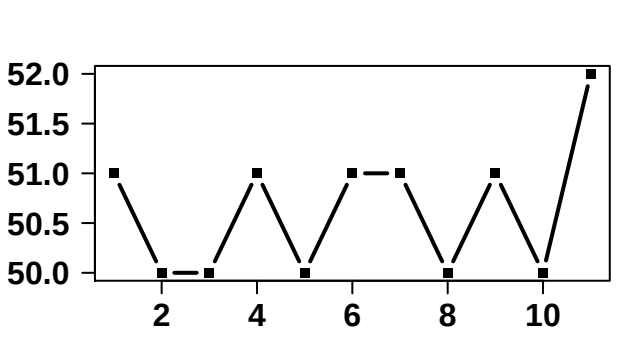

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

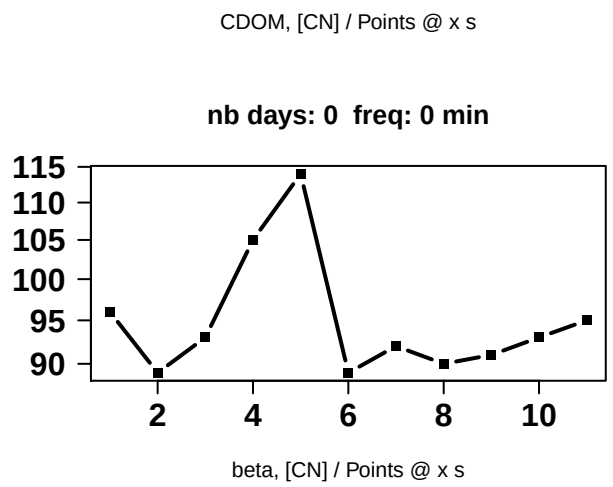

nb days: 0 freq: 0 min
105
100
95
90
2
4
6
8
10
beta, [CN] / Points @ x s

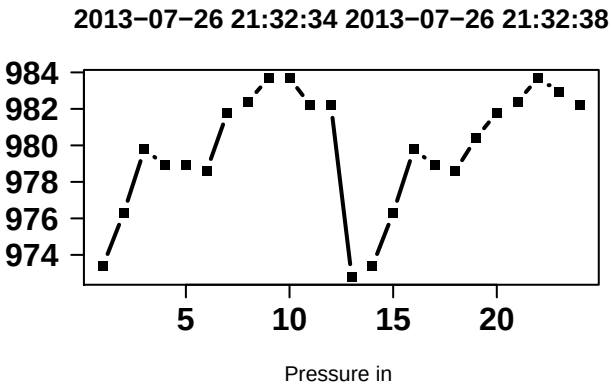

2013−07−25 22:00:55 2013−07−25 22:00:59
986
984
982
980
978
976
974
5
10
15
20
Pressure in

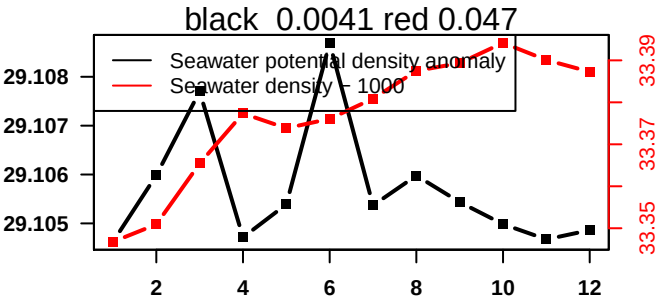

black 0.0042 red 0.056
Seawater potential density anomaly
Seawater density − 1000
29.108
29.107
29.106
29.105
33.39
33.36
2
4
6
8
10

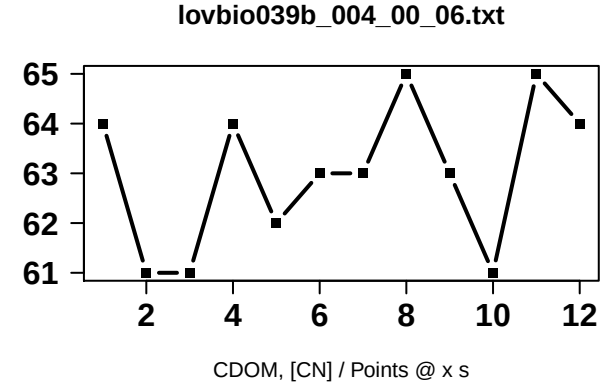

lovbio039b_003_00_06.txt
64.0
63.5
63.0
62.5
62.0
61.5
61.0
2
4
6
8
10
CDOM, [CN] / Points @ x s

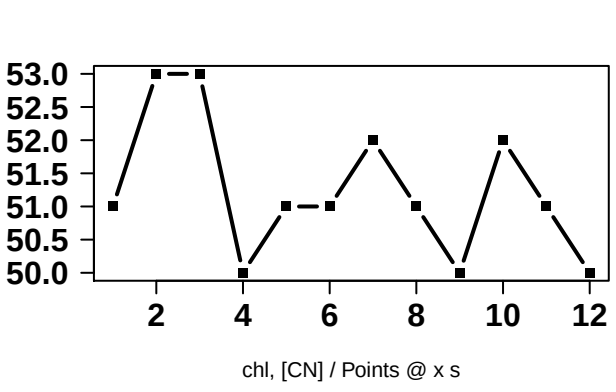

52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
chl, [CN] / Points @ x s

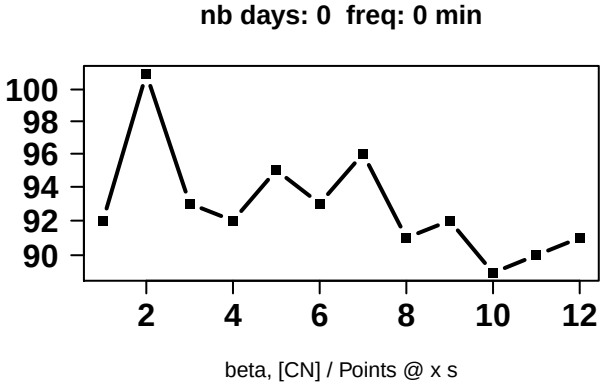

nb days: 0 freq: 0 min
115
110
105
100
95
90
2
4
6
8
10
beta, [CN] / Points @ x s

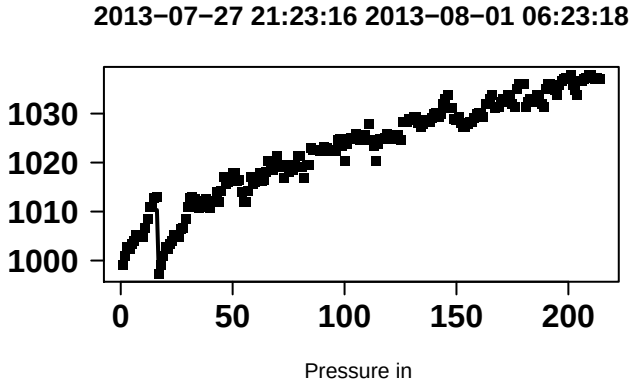

2013−07−26 21:32:34 2013−07−26 21:32:38
984
982
980
978
976
974
5
10
15
20
Pressure in

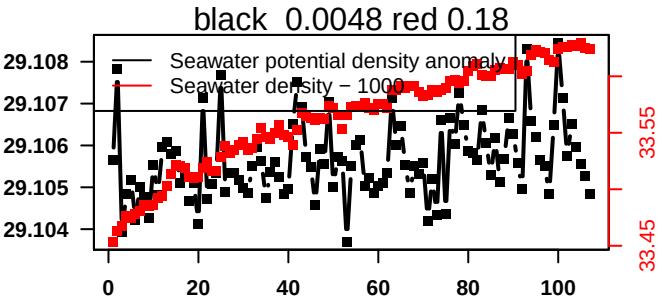

black 0.0041 red 0.047
Seawater potential density anomaly
Seawater density − 1000
29.108
29.107
29.106
29.105
33.39
33.37
33.35
2
4
6
8
10
12

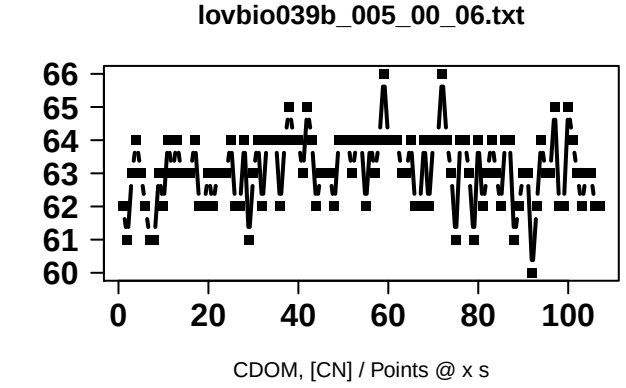

lovbio039b_004_00_06.txt
65
64
63
62
61
2
4
6
8
10
12
CDOM, [CN] / Points @ x s

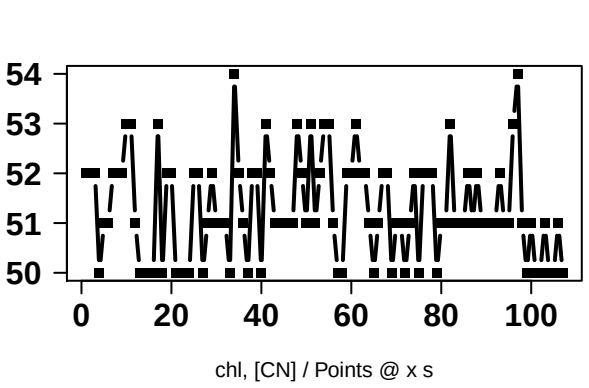

53.0
52.5
52.0
51.5
51.0
50.5
50.0
2
4
6
8
10
12
chl, [CN] / Points @ x s

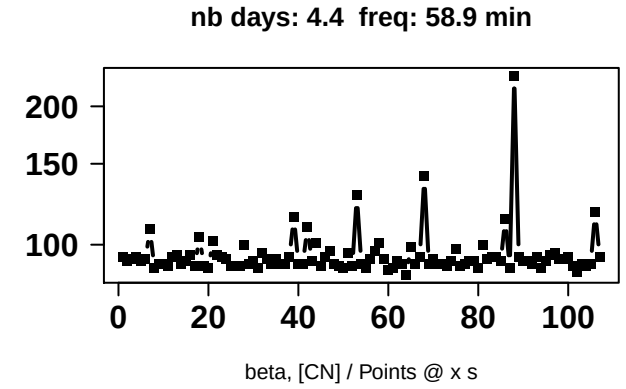

nb days: 0 freq: 0 min
100
98
96
94
92
90
2
4
6
8
10
12
beta, [CN] / Points @ x s

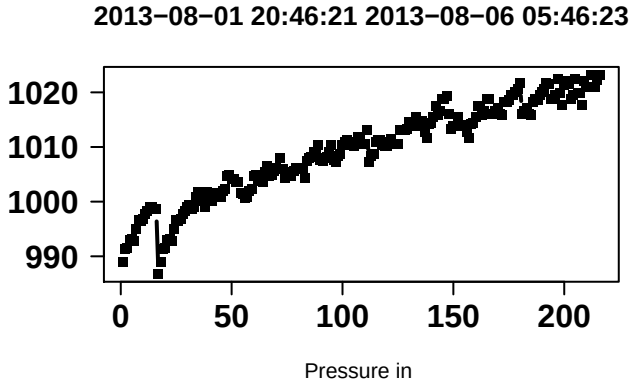

2013−07−27 21:23:16 2013−08−01 06:23:18
1030
1020
1010
1000
0
50
100
150
200
Pressure in

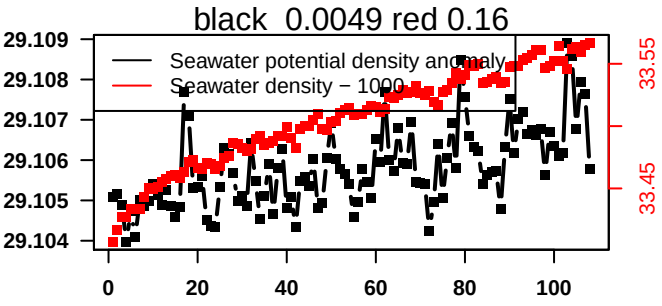

black 0.0048 red 0.18
Seawater potential density anomaly
Seawater density − 1000
29.108
29.107
29.106
29.105
29.104
33.55
33.45
0
20
40
60
80
100

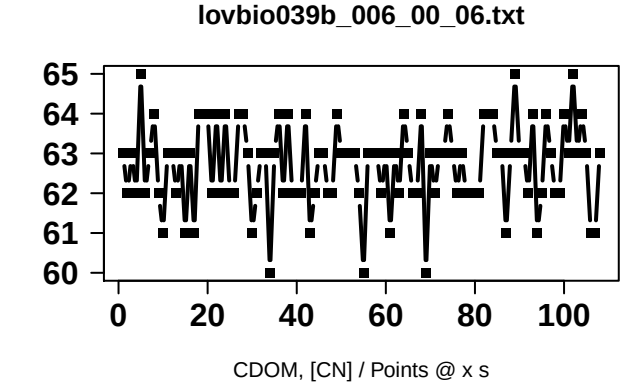

lovbio039b_005_00_06.txt
66
65
64
63
62
61
60
0
20
40
60
80
100
CDOM, [CN] / Points @ x s

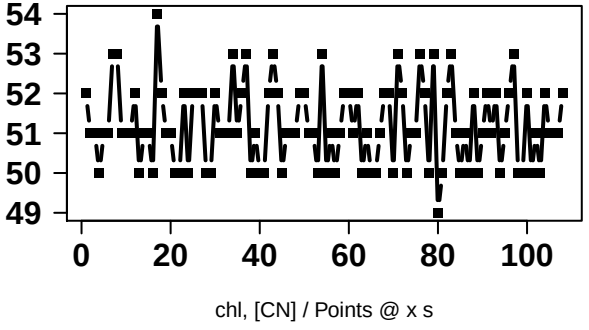

54
53
52
51
50
0
20
40
60
80
100
chl, [CN] / Points @ x s

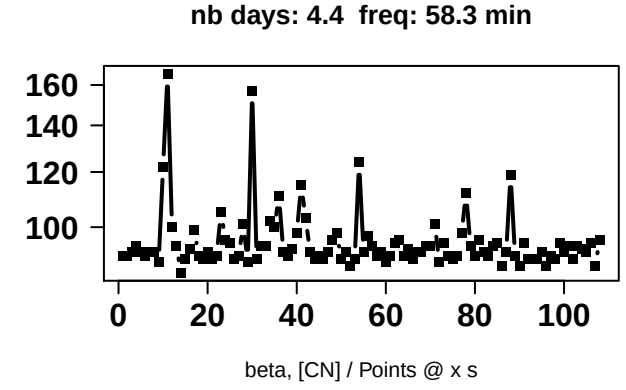

nb days: 4.4 freq: 58.9 min
200
150
100
0
20
40
60
80
100
beta, [CN] / Points @ x s

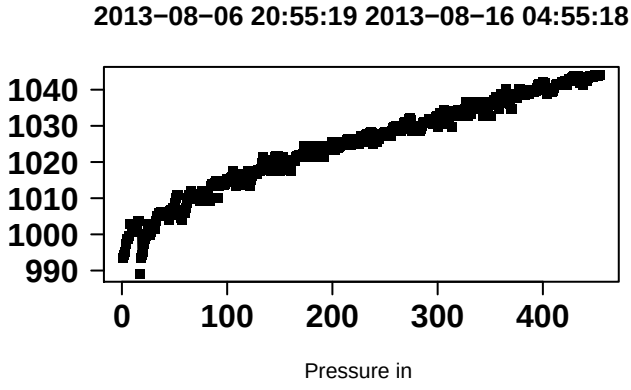

2013−08−01 20:46:21 2013−08−06 05:46:23
1020
1010
1000
990
0
50
100
150
200
Pressure in

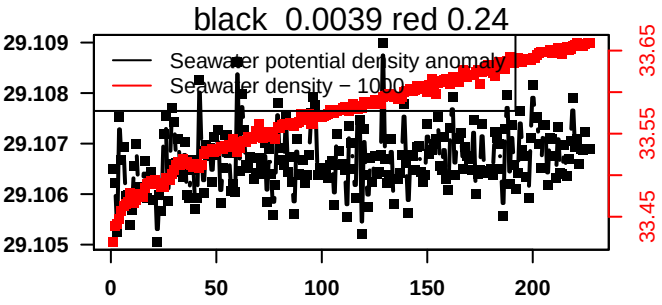

black 0.0049 red 0.16
Seawater potential density anomaly
Seawater density − 1000
29.109
29.108
29.107
29.106
29.105
29.104
33.55
33.45
0
20
40
60
80
100

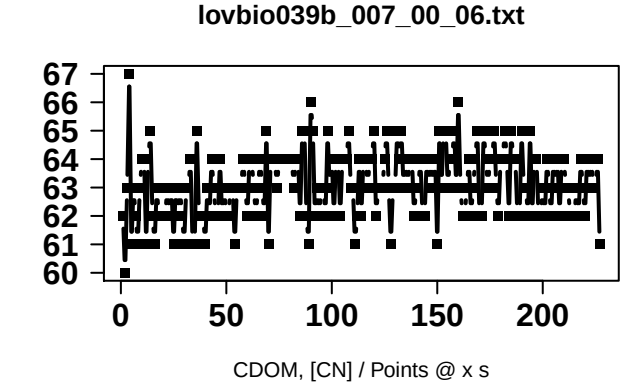

lovbio039b_006_00_06.txt
65
64
63
62
61
60
0
20
40
60
80
100
CDOM, [CN] / Points @ x s

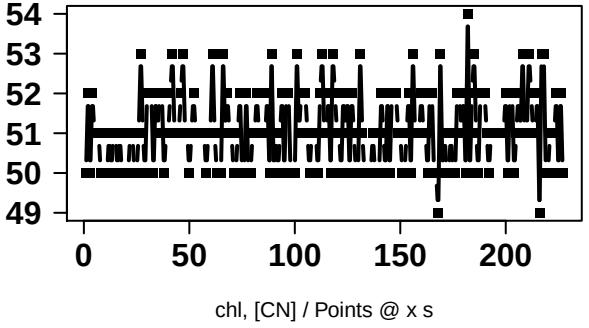

54
53
52
51
50
49
0
20
40
60
80
100
chl, [CN] / Points @ x s

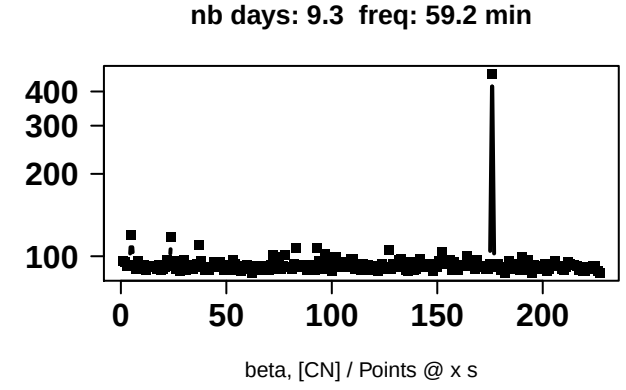

nb days: 4.4 freq: 58.3 min
160
140
120
100
0
20
40
60
80
100
beta, [CN] / Points @ x s

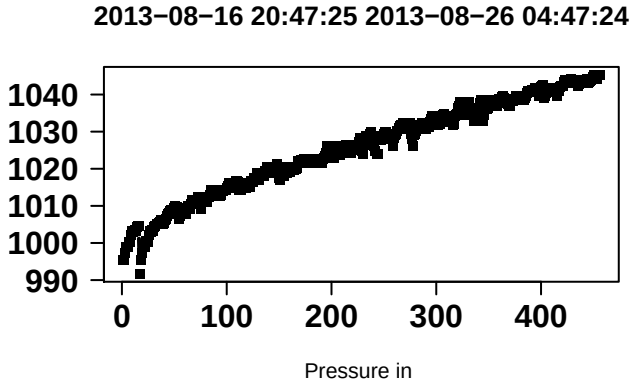

2013−08−06 20:55:19 2013−08−16 04:55:18
1040
1030
1020
1010
1000
990
0
100
200
300
400
Pressure in

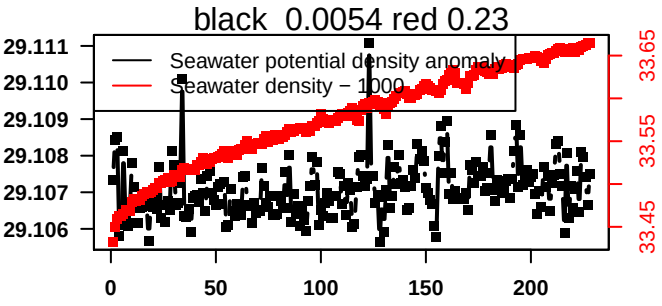

black 0.0039 red 0.24
Seawater potential density anomaly
Seawater density − 1000
29.109
29.108
29.107
29.106
29.105
33.65
33.55
33.45
0
50
100
150
200

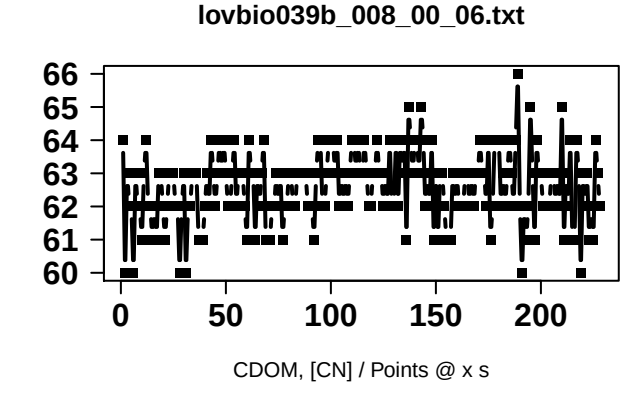

lovbio039b_007_00_06.txt
67
66
65
64
63
62
61
60
0
50
100
150
200
CDOM, [CN] / Points @ x s

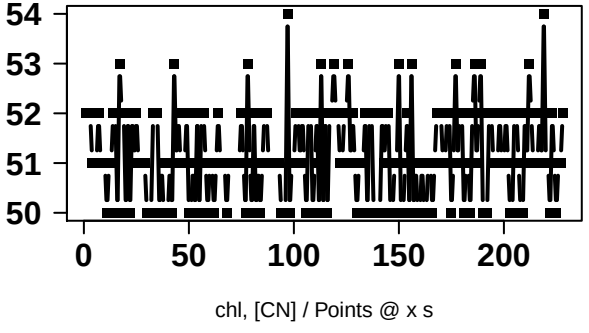

54
53
52
51
50
49
0
50
100
150
200
chl, [CN] / Points @ x s

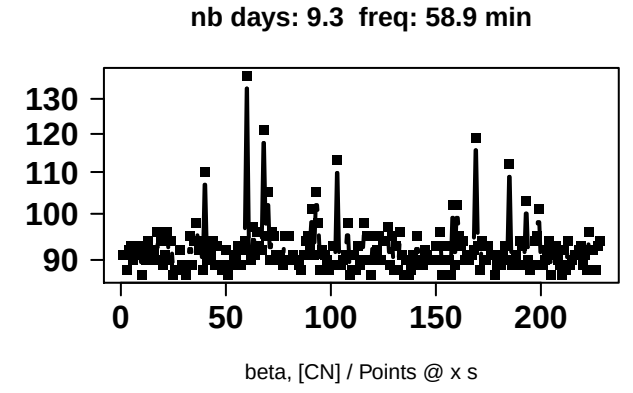

nb days: 9.3 freq: 59.2 min
400
300
200
100
0
50
100
150
200
beta, [CN] / Points @ x s

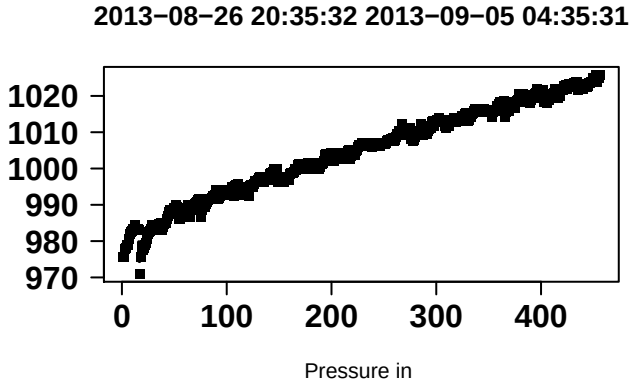

2013−08−16 20:47:25 2013−08−26 04:47:24
1040
1030
1020
1010
1000
990
0
100
200
300
400
Pressure in

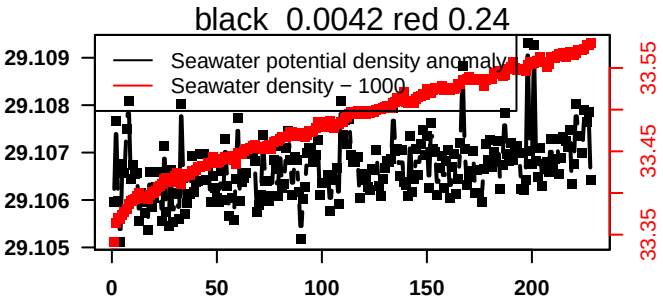

black 0.0054 red 0.23
Seawater potential density anomaly
Seawater density − 1000
29.111
29.110
29.109
29.108
29.107
29.106
33.65
33.55
33.45
0
50
100
150
200

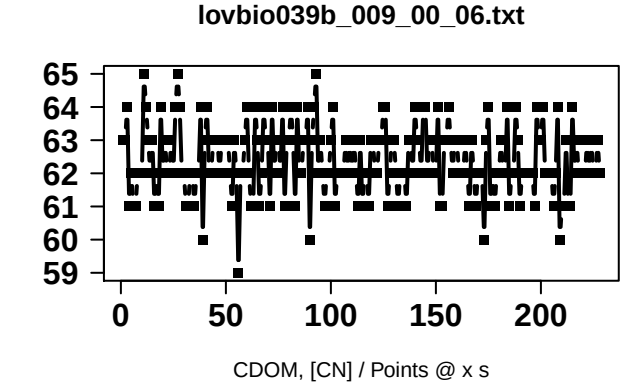

lovbio039b_008_00_06.txt
66
65
64
63
62
61
60
0
50
100
150
200
CDOM, [CN] / Points @ x s

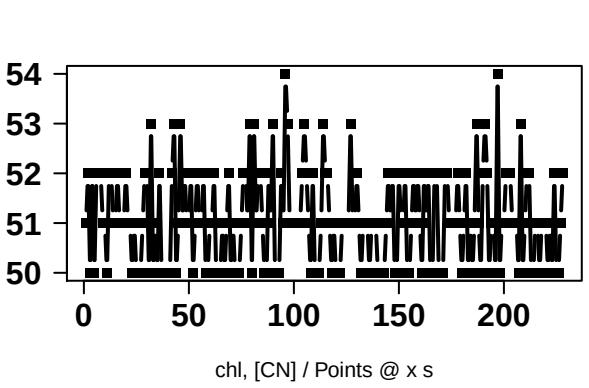

54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

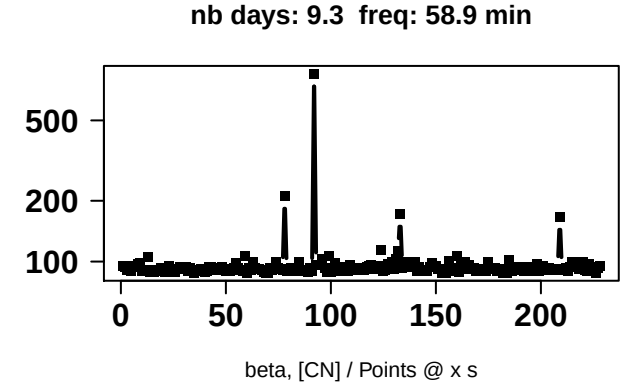

nb days: 9.3 freq: 58.9 min
130
120
110
100
90
0
50
100
150
200
beta, [CN] / Points @ x s

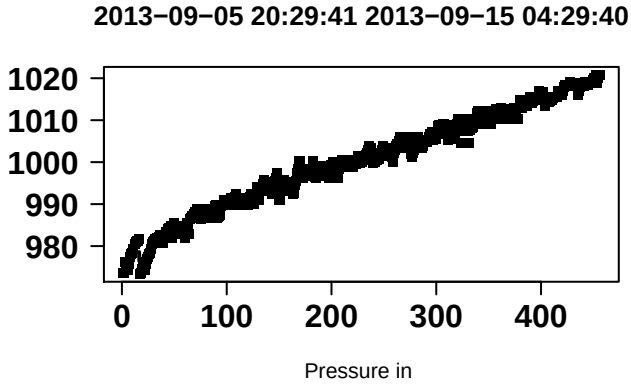

2013−08−26 20:35:32 2013−09−05 04:35:31
1020
1010
1000
990
980
970
0
100
200
300
400
Pressure in

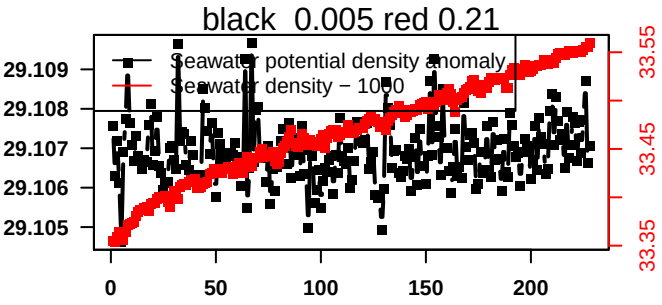

black 0.0042 red 0.24
Seawater potential density anomaly
Seawater density − 1000
29.109
29.108
29.107
29.106
29.105
33.55
33.45
33.35
0
50
100
150
200

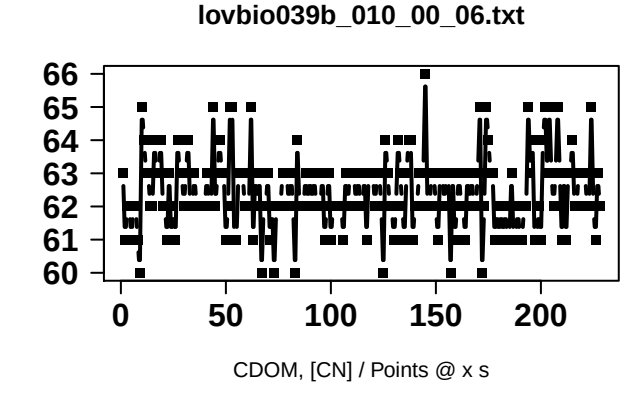

lovbio039b_009_00_06.txt
65
64
63
62
61
60
59
0
50
100
150
200
CDOM, [CN] / Points @ x s

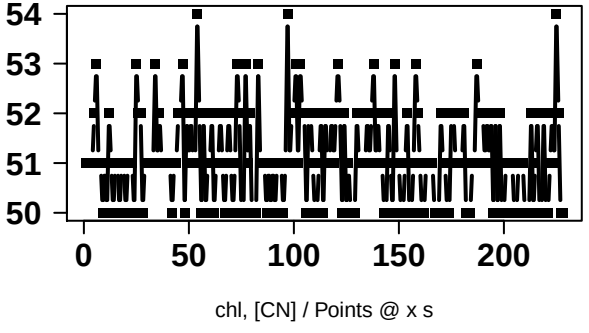

54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

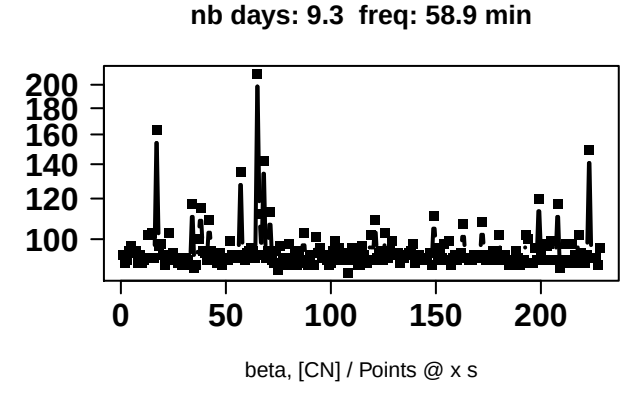

nb days: 9.3 freq: 58.9 min
500
200
100
0
50
100
150
200
beta, [CN] / Points @ x s

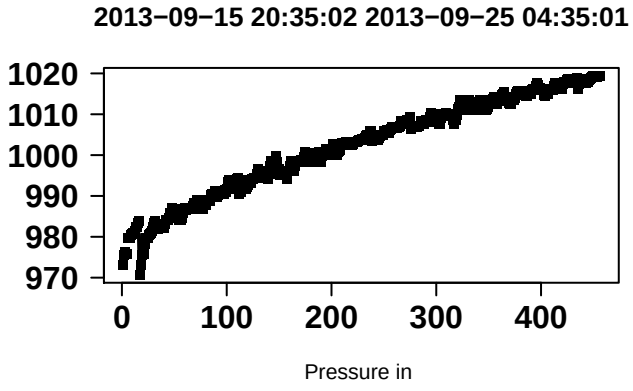

2013−09−05 20:29:41 2013−09−15 04:29:40
1020
1010
1000
990
980
0
100
200
300
400
Pressure in

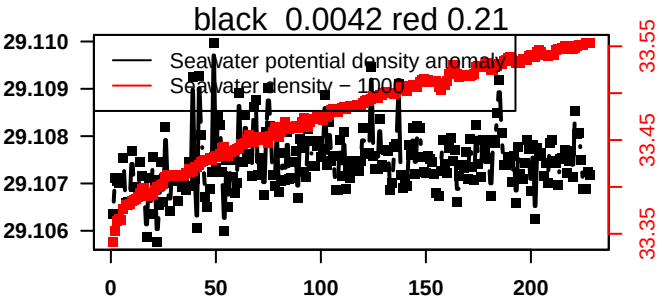

black 0.005 red 0.21
Seawater potential density anomaly
Seawater density − 1000
29.109
29.108
29.107
29.106
29.105
33.55
33.45
33.35
0
50
100
150
200

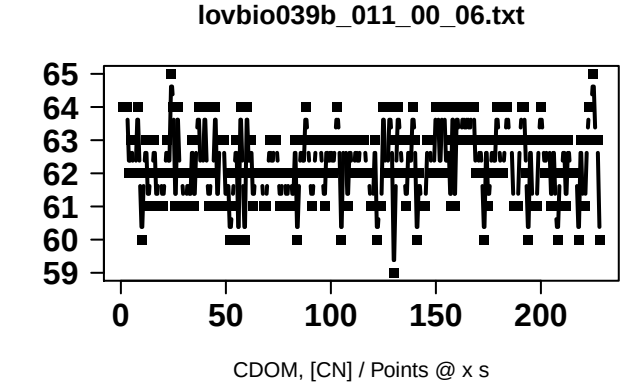

lovbio039b_010_00_06.txt
66
65
64
63
62
61
60
0
50
100
150
200
CDOM, [CN] / Points @ x s

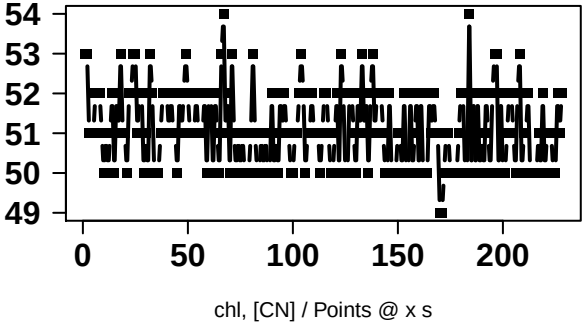

54
53
52
51
50
0
50
100
150
200
chl, [CN] / Points @ x s

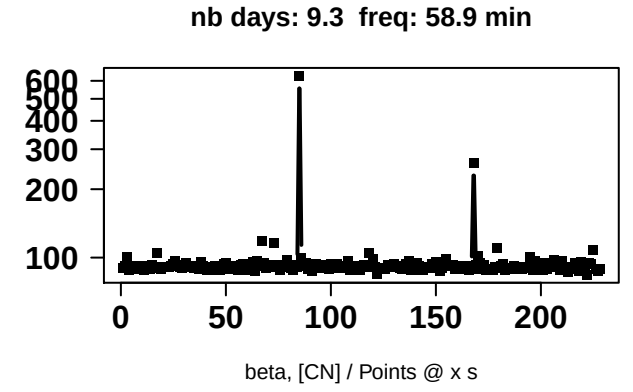

nb days: 9.3 freq: 58.9 min
200
180
160
140
120
100
0
50
100
150
200
beta, [CN] / Points @ x s

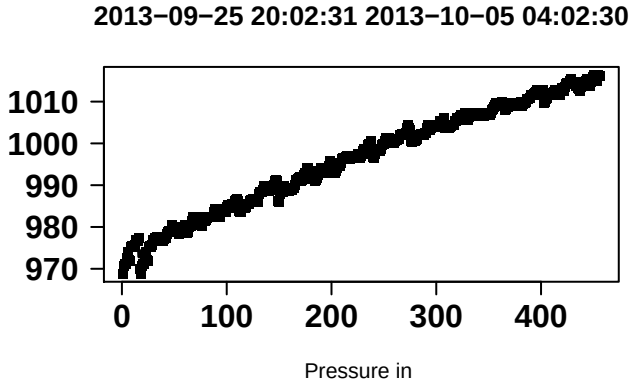

2013−09−15 20:35:02 2013−09−25 04:35:01
1020
1010
1000
990
980
970
0
100
200
300
400
Pressure in

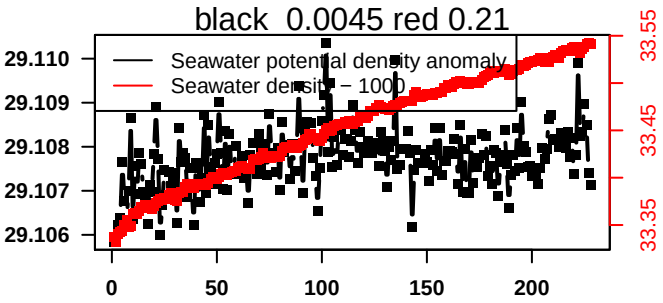

black 0.0042 red 0.21
Seawater potential density anomaly
Seawater density − 1000
29.110
29.109
29.108
29.107
29.106
33.55
33.45
33.35
0
50
100
150
200

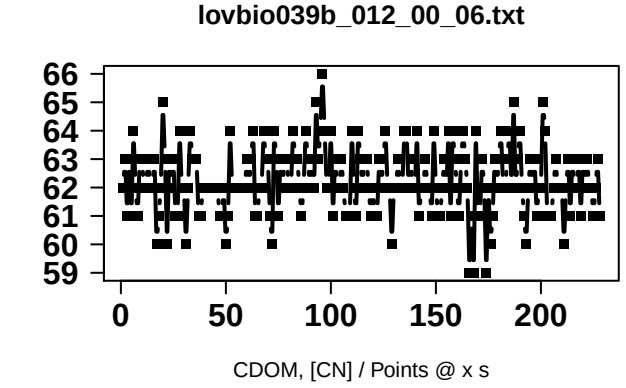

lovbio039b_011_00_06.txt
65
64
63
62
61
60
59
0
50
100
150
200
CDOM, [CN] / Points @ x s

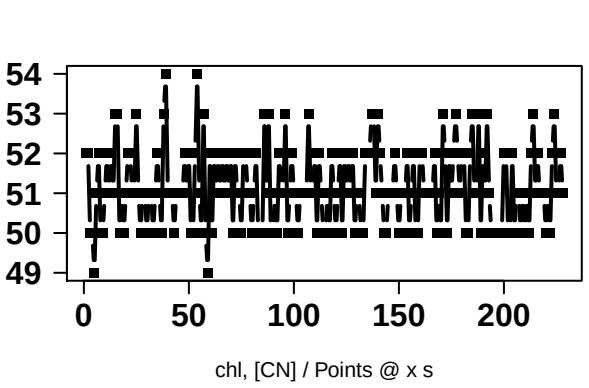

54
53
52
51
50
49
0
50
100
150
200
chl, [CN] / Points @ x s

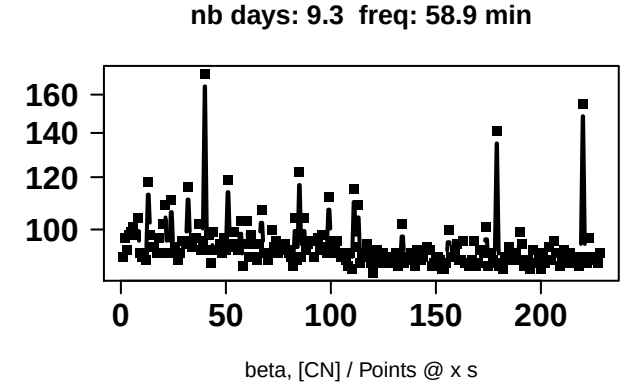

nb days: 9.3 freq: 58.9 min
600
500
400
300
200
100
0
50
100
150
200
beta, [CN] / Points @ x s

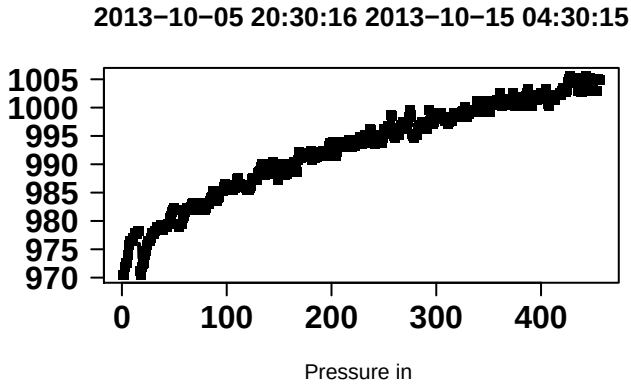

2013−09−25 20:02:31 2013−10−05 04:02:30
1010
1000
990
980
970
0
100
200
300
400
Pressure in

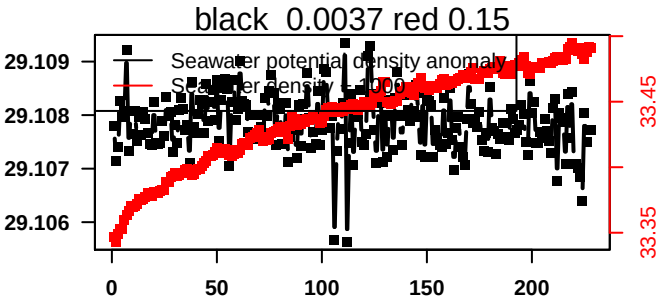

black 0.0045 red 0.21
Seawater potential density anomaly
Seawater density − 1000
29.110
29.109
29.108
29.107
29.106
33.55
33.45
33.35
0
50
100
150
200

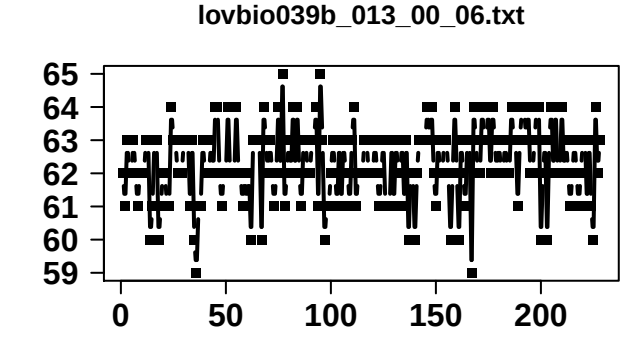

lovbio039b_012_00_06.txt
66
65
64
63
62
61
60
59
0
50
100
150
200
CDOM, [CN] / Points @ x s

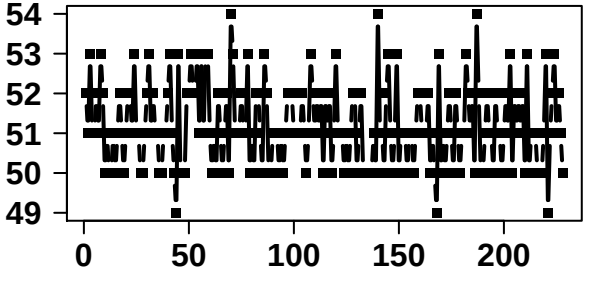

54
53
52
51
50
49
0
50
100
150
200
chl, [CN] / Points @ x s

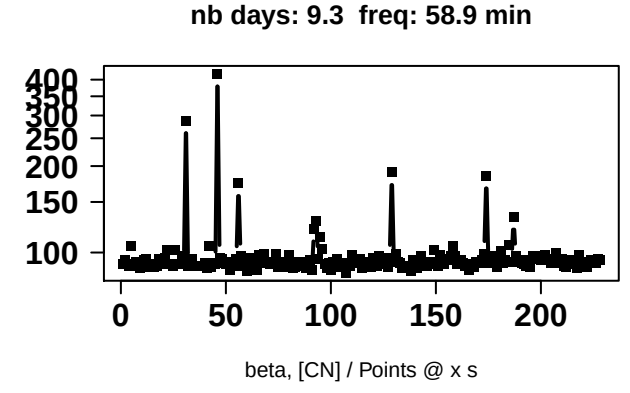

nb days: 9.3 freq: 58.9 min
160
140
120
100
0
50
100
150
200
beta, [CN] / Points @ x s

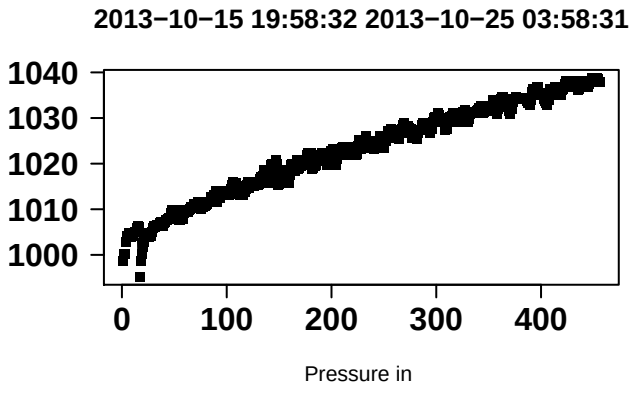

2013−10−05 20:30:16 2013−10−15 04:30:15
1005
1000
995
990
985
980
975
970
0
100
200
300
400
Pressure in

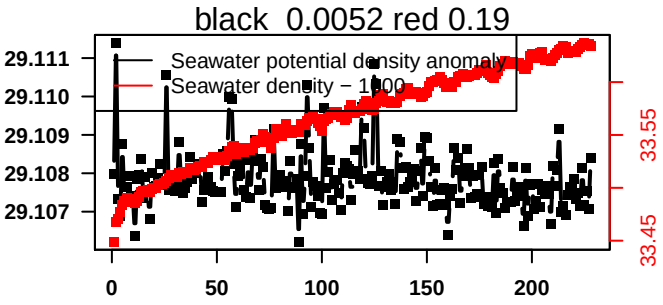

black 0.0037 red 0.15
Seawater potential density anomaly
Seawater density −1000
29.109
29.108
29.107
29.106
33.45
33.35
0
50
100
150
200

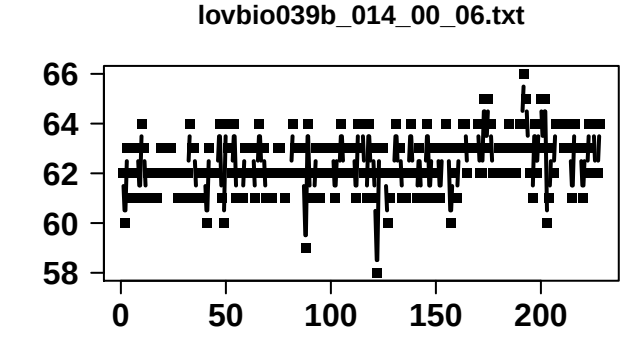

lovbio039b_013_00_06.txt
65
64
63
62
61
60
59
0
50
100
150
200
CDOM, [CN] / Points @ x s

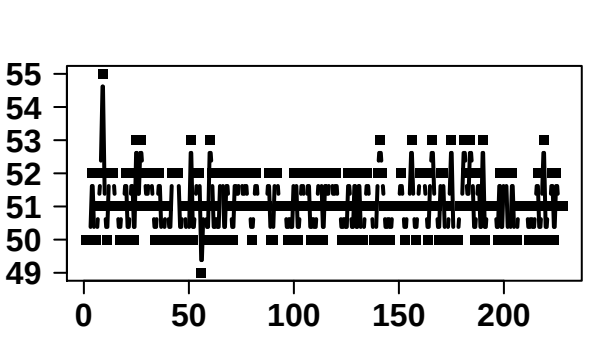

54
53
52
51
50
49
0
50
100
150
200
chl, [CN] / Points @ x s

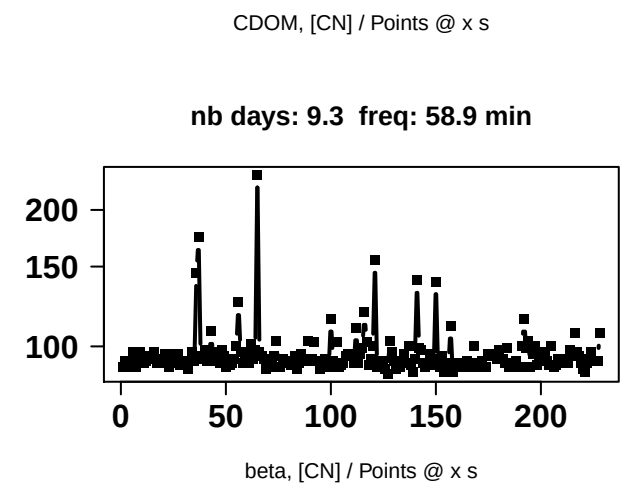

nb days: 9.3 freq: 58.9 min
400
350
300
250
200
150
100
0
50
100
150
200
beta, [CN] / Points @ x s

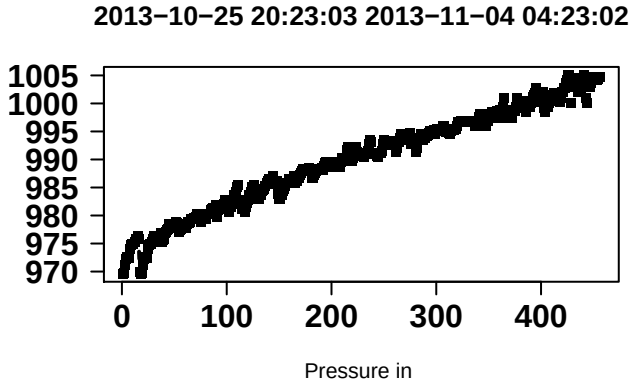

2013−10−15 19:58:32 2013−10−25 03:58:31
1040
1030
1020
1010
1000
0
100
200
300
400
Pressure in

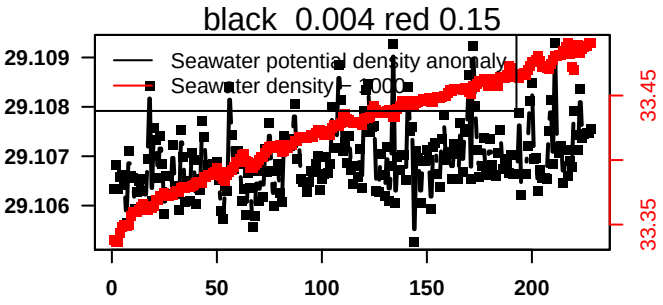

black 0.0052 red 0.19
Seawater potential density anomaly
Seawater density − 1000
29.111
29.110
29.109
29.108
29.107
33.55
33.45
0
50
100
150
200

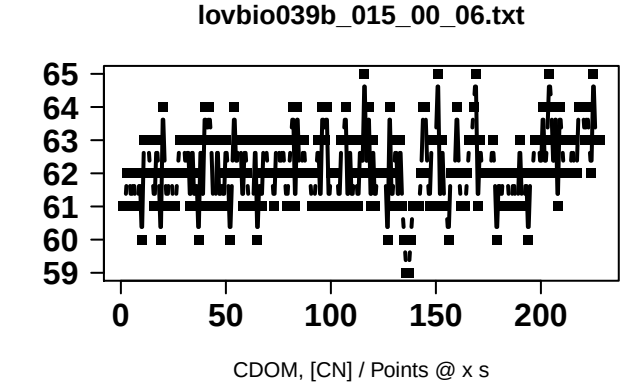

lovbio039b_014_00_06.txt
66
64
62
60
58
0
50
100
150
200
CDOM, [CN] / Points @ x s

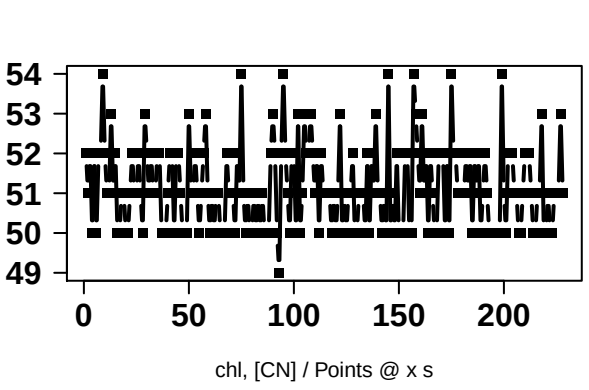

55
54
53
52
51
50
49
0
50
100
150
200
chl, [CN] / Points @ x s

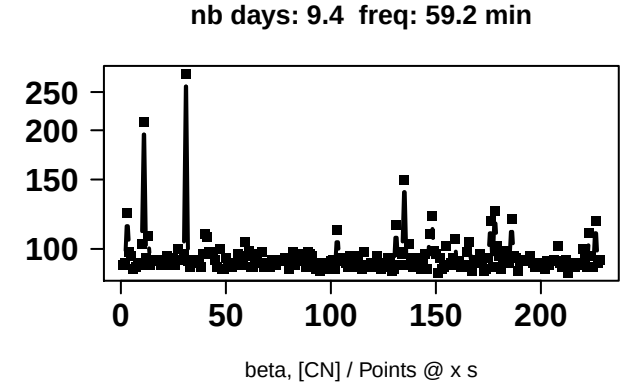

nb days: 9.3 freq: 58.9 min
200
150
100
0
50
100
150
200
beta, [CN] / Points @ x s

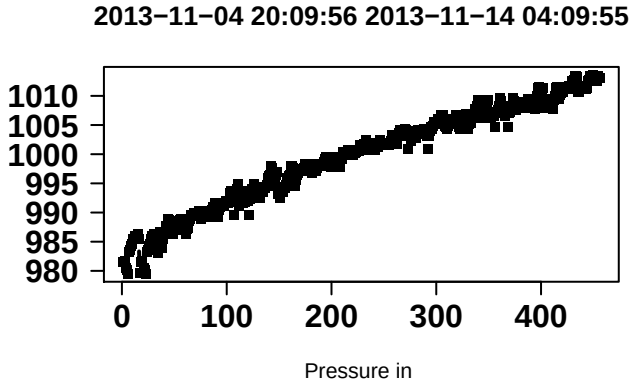

2013−10−25 20:23:03 2013−11−04 04:23:02
1005
1000
995
990
985
980
975
970
0
100
200
300
400
Pressure in

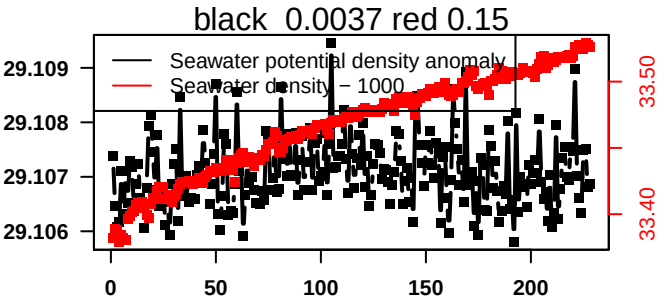

black 0.004 red 0.15
Seawater potential density anomaly
Seawater density − 1000
29.109
29.108
29.107
29.106
33.45
33.35
0
50
100
150
200

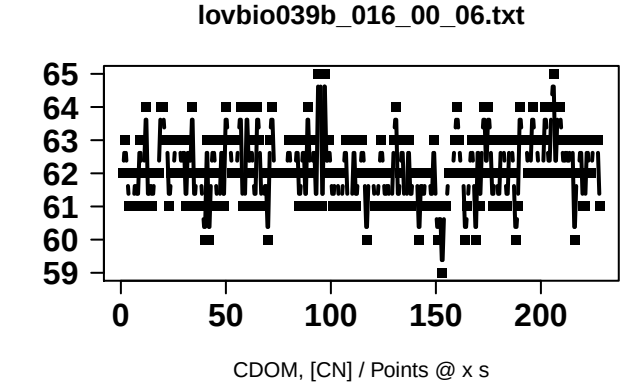

lovbio039b_015_00_06.txt
65
64
63
62
61
60
59
0
50
100
150
200
CDOM, [CN] / Points @ x s

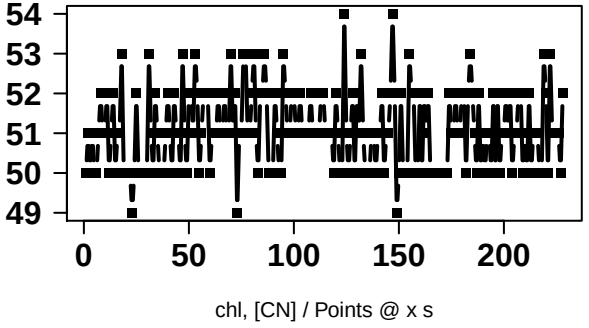

54
53
52
51
50
49
0
50
100
150
200
chl, [CN] / Points @ x s

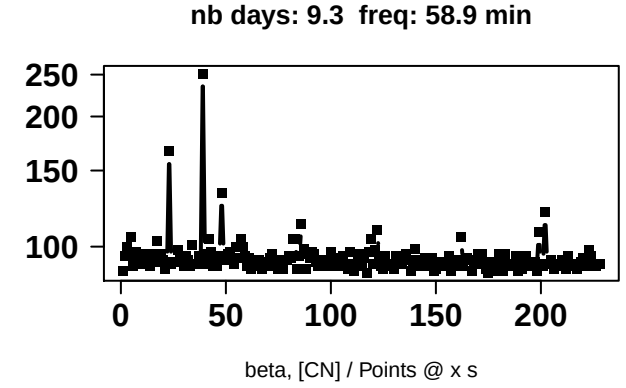

nb days: 9.4 freq: 59.2 min
250
200
150
100
0
50
100
150
200
beta, [CN] / Points @ x s

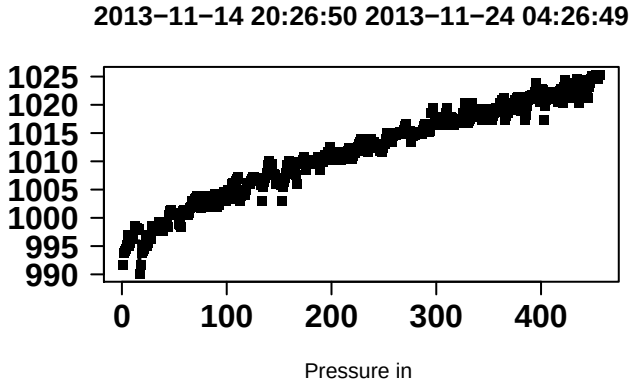

2013−11−04 20:09:56 2013−11−14 04:09:55
1010
1005
1000
995
990
985
980
0
100
200
300
400
Pressure in

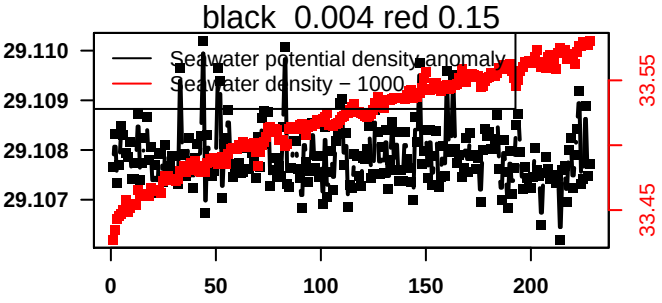

black 0.0037 red 0.15
Seawater potential density anomaly
Seawater density − 1000
29.109
29.108
29.107
29.106
33.50
33.40
0
50
100
150
200

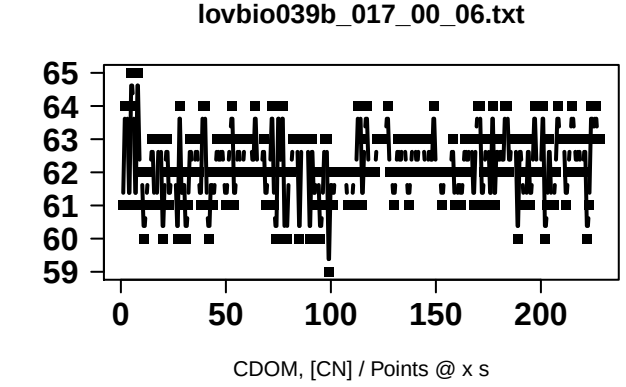

lovbio039b_016_00_06.txt
65
64
63
62
61
60
59
0
50
100
150
200
CDOM, [CN] / Points @ x s

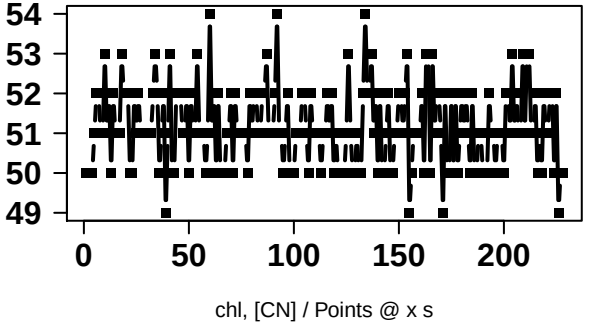

54
53
52
51
50
49
0
50
100
150
200
chl, [CN] / Points @ x s

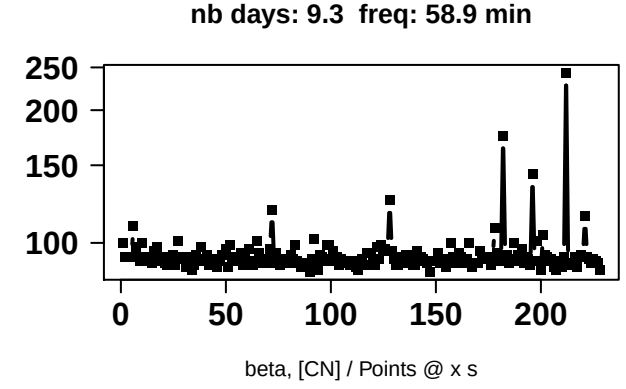

nb days: 9.3 freq: 58.9 min
250
200
150
100
0
50
100
150
200
beta, [CN] / Points @ x s

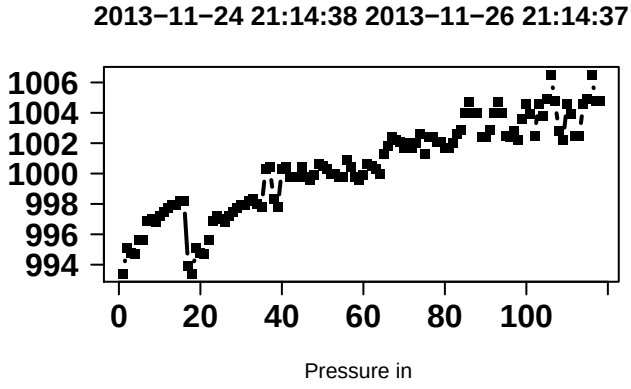

2013−11−14 20:26:50 2013−11−24 04:26:49
1025
1020
1015
1010
1005
1000
995
990
0
100
200
300
400
Pressure in

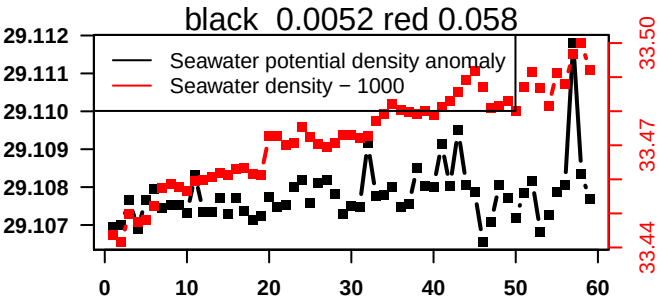

black 0.004 red 0.15
Seawater potential density anomaly
Seawater density − 1000
29.110
29.109
29.108
29.107
33.55
33.45
0
50
100
150
200

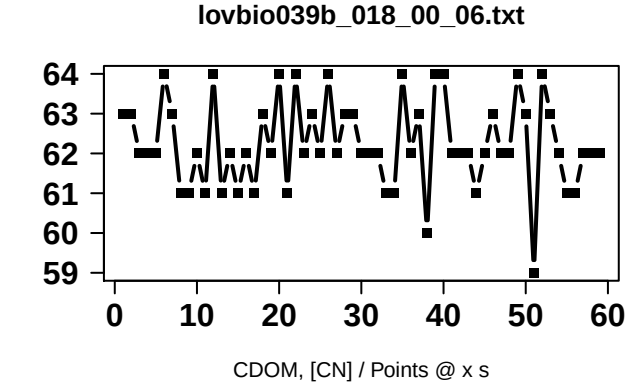

lovbio039b_017_00_06.txt
65
64
63
62
61
60
59
0
50
100
150
200
CDOM, [CN] / Points @ x s

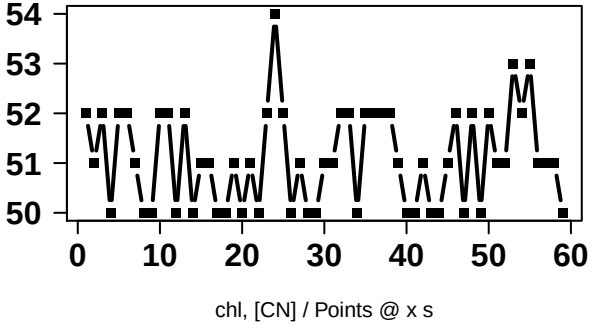

54
53
52
51
50
49
0
50
100
150
200
chl, [CN] / Points @ x s

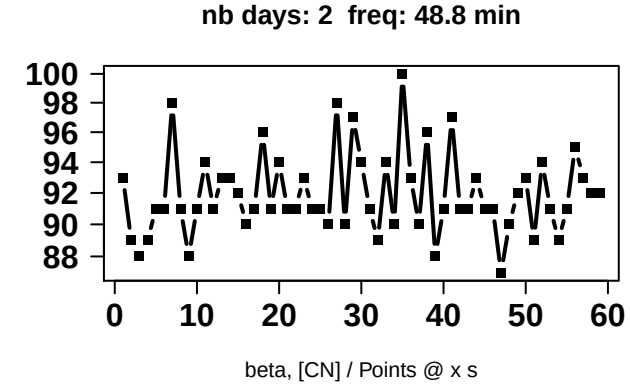

nb days: 9.3 freq: 58.9 min
250
200
150
100
0
50
100
150
200
beta, [CN] / Points @ x s

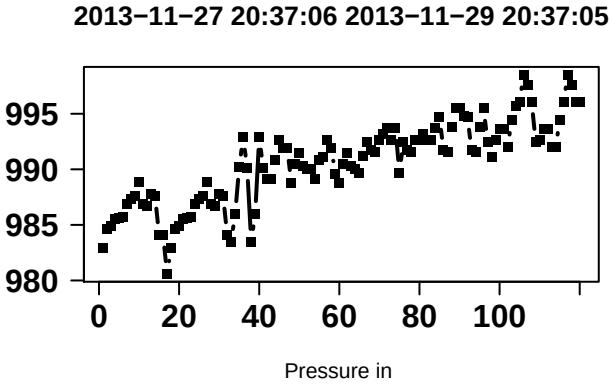

2013−11−24 21:14:38 2013−11−26 21:14:37
1006
1004
1002
1000
998
996
994
0
20
40
60
80
100
Pressure in

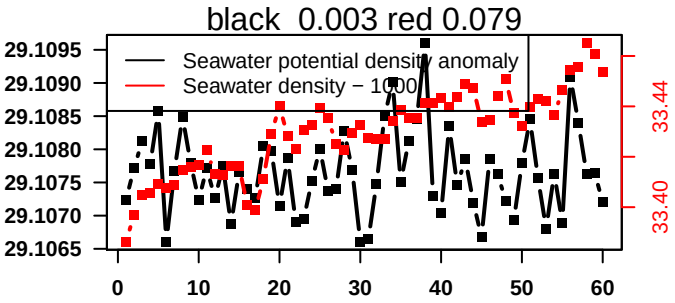

black 0.0052 red 0.058
Seawater potential density anomaly
Seawater density − 1000
29.112
29.111
29.110
29.109
29.108
29.107
33.50
33.47
33.44
0
10
20
30
40
50
60

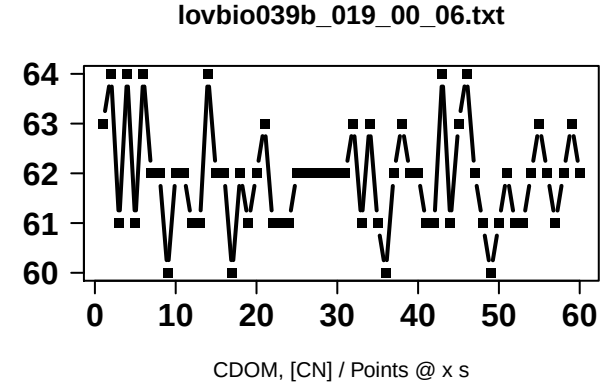

lovbio039b_018_00_06.txt
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

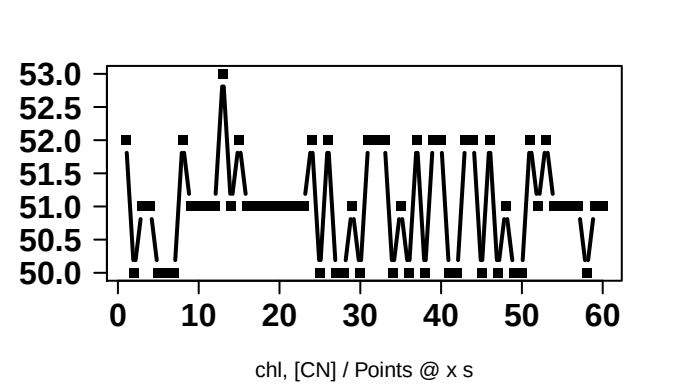

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

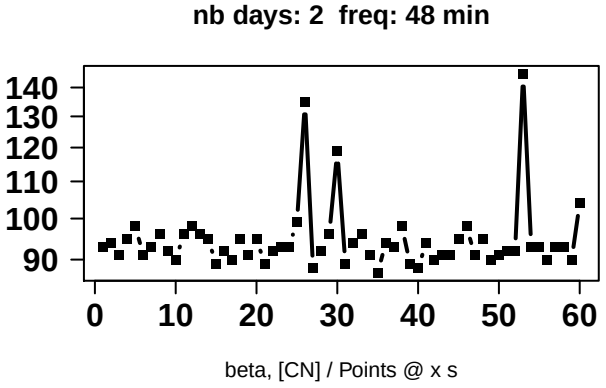

nb days: 2 freq: 48.8 min
100
98
96
94
92
90
88
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

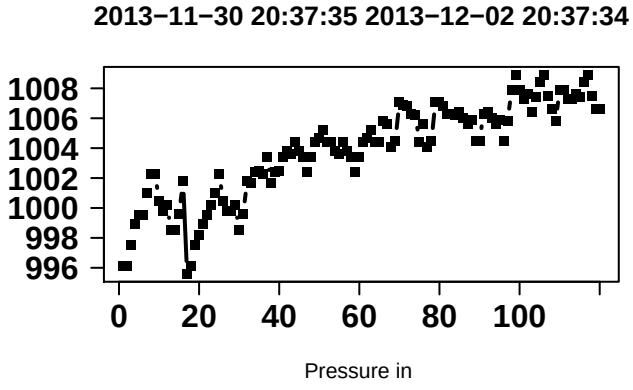

2013−11−27 20:37:06 2013−11−29 20:37:05
995
990
985
980
0
20
40
60
80
100
Pressure in

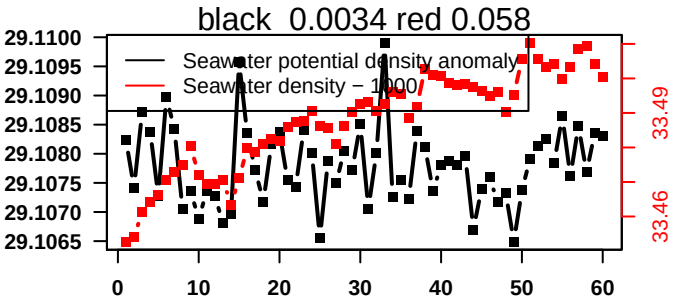

black 0.003 red 0.079
Seawater potential density anomaly
Seawater density − 1000
29.1095
29.1090
29.1085
29.1080
29.1075
29.1070
29.1065
33.44
33.40
0
10
20
30
40
50
60

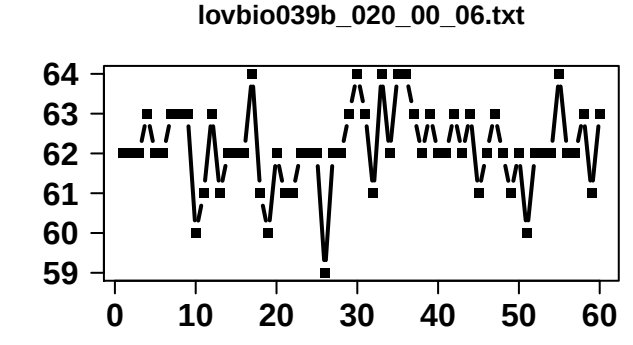

lovbio039b_019_00_06.txt
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

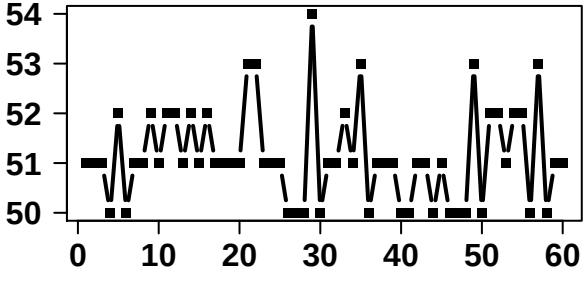

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

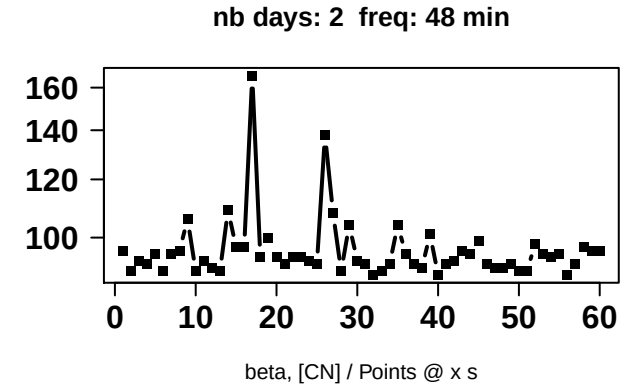

nb days: 2 freq: 48 min
140
130
120
110
100
90
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

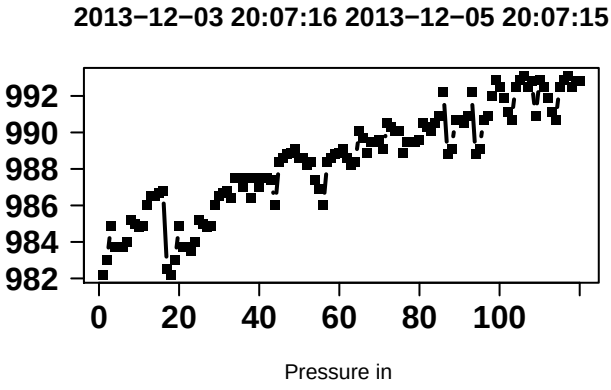

2013−11−30 20:37:35 2013−12−02 20:37:34
1008
1006
1004
1002
1000
998
996
0
20
40
60
80
100
Pressure in

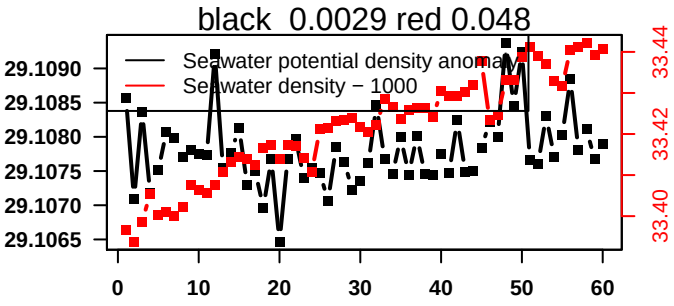

black 0.0034 red 0.058
Seawater potential density anomaly
Seawater density − 1000
29.1100
29.1095
29.1090
29.1085
29.1080
29.1075
29.1070
29.1065
33.49
33.46
0
10
20
30
40
50
60

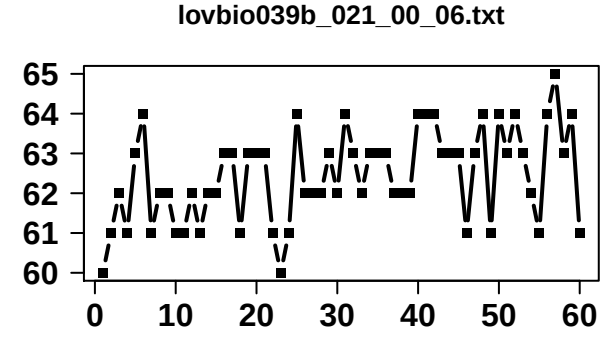

lovbio039b_020_00_06.txt
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

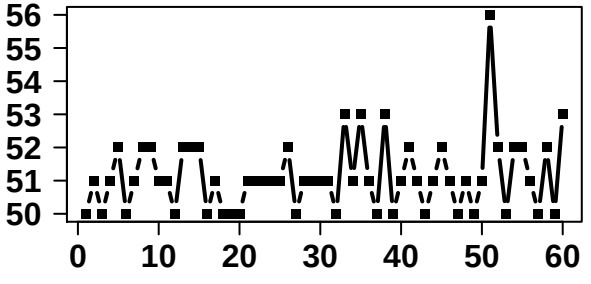

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

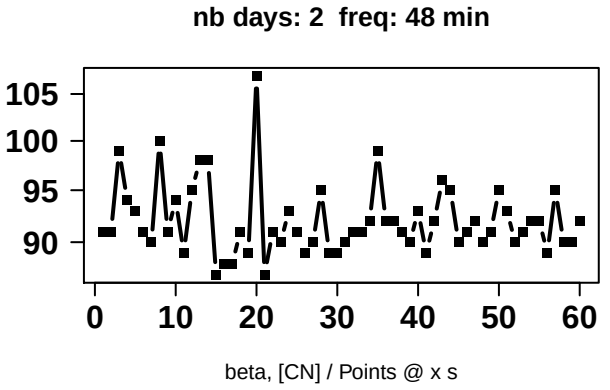

nb days: 2 freq: 48 min
160
140
120
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

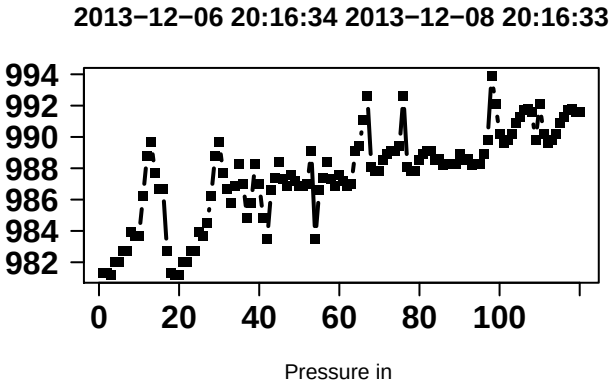

2013−12−03 20:07:16 2013−12−05 20:07:15
992
990
988
986
984
982
0
20
40
60
80
100
Pressure in

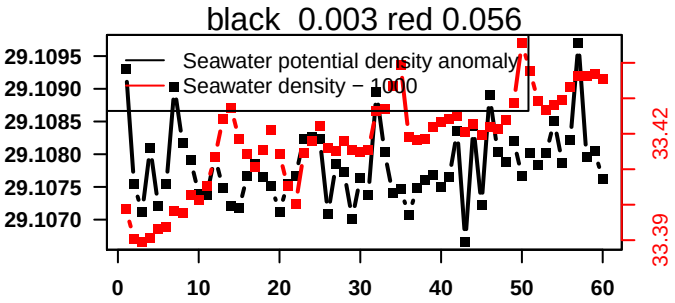

black 0.0029 red 0.048
Seawater potential density anomaly
Seawater density − 1000
29.1090
29.1085
29.1080
29.1075
29.1070
29.1065
33.44
33.42
33.40
0
10
20
30
40
50
60

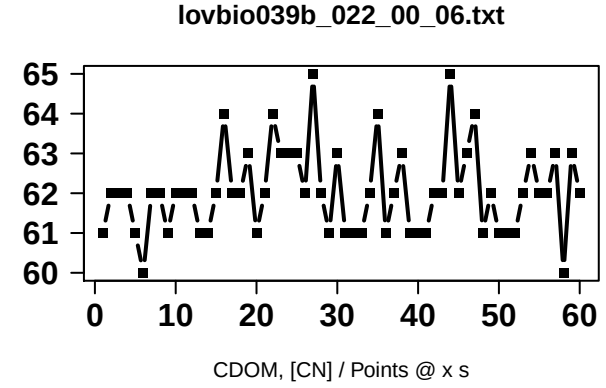

lovbio039b_021_00_06.txt
65
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

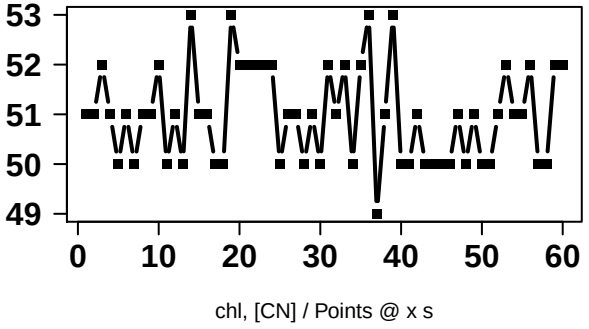

56
55
54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

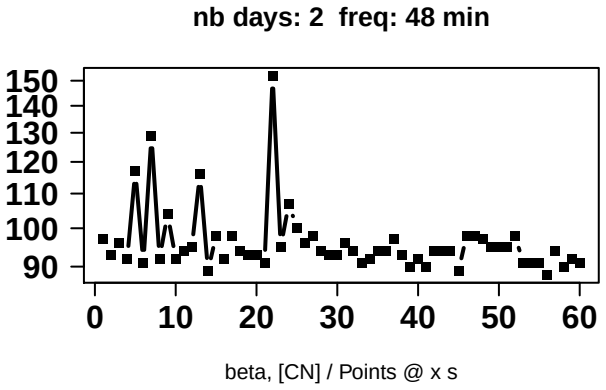

nb days: 2 freq: 48 min
105
100
95
90
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

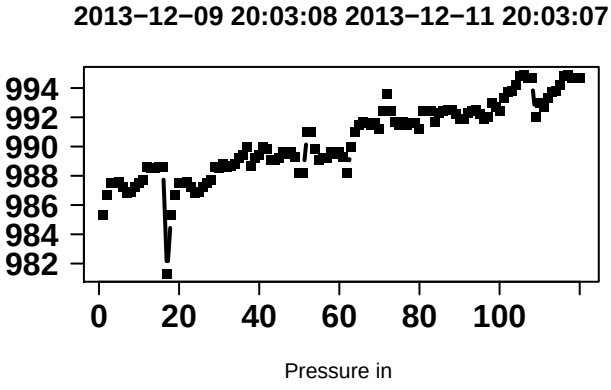

2013−12−06 20:16:34 2013−12−08 20:16:33
994
992
990
988
986
984
982
0
20
40
60
80
100
Pressure in

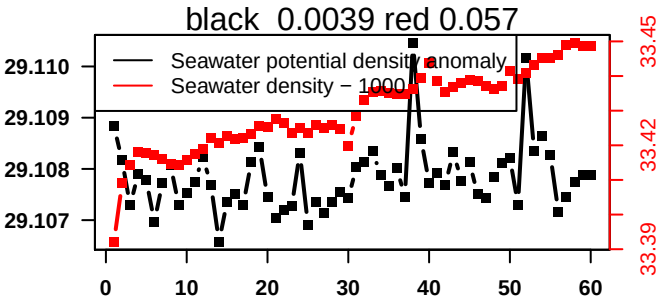

black 0.003 red 0.056
Seawater potential density anomaly
Seawater density − 1000
29.1095
29.1090
29.1085
29.1080
29.1075
29.1070
33.42
33.39
0
10
20
30
40
50
60

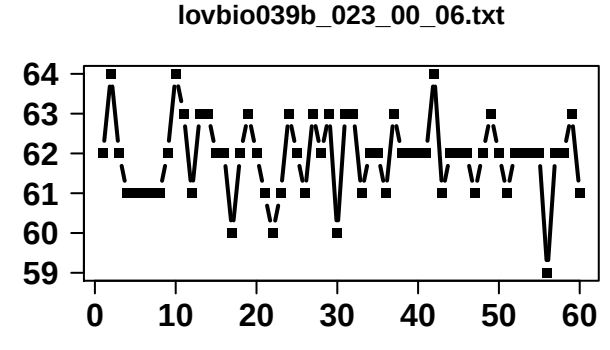

lovbio039b_022_00_06.txt
65
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

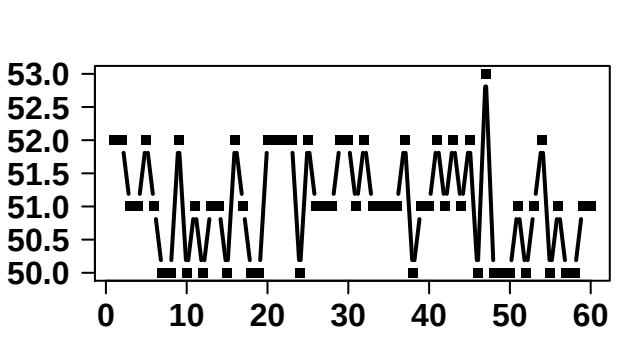

53
52
51
50
49
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

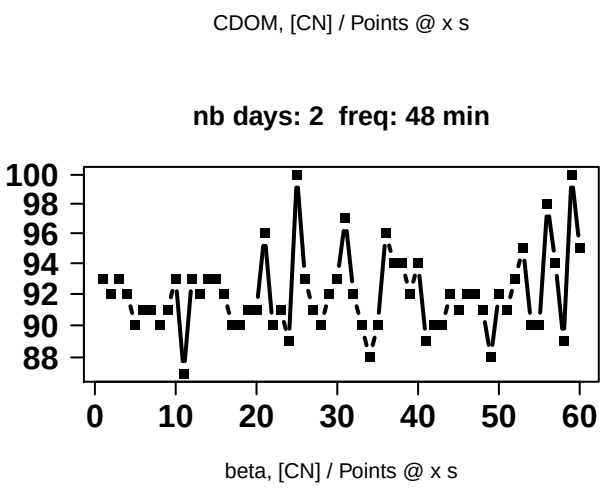

nb days: 2 freq: 48 min
150
140
130
120
110
100
90
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

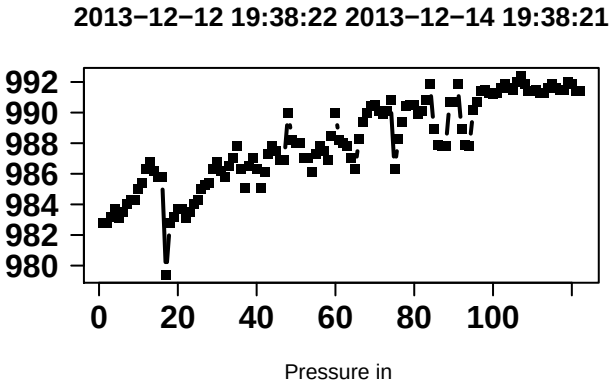

2013−12−09 20:03:08 2013−12−11 20:03:07
994
992
990
988
986
984
982
0
20
40
60
80
100
Pressure in

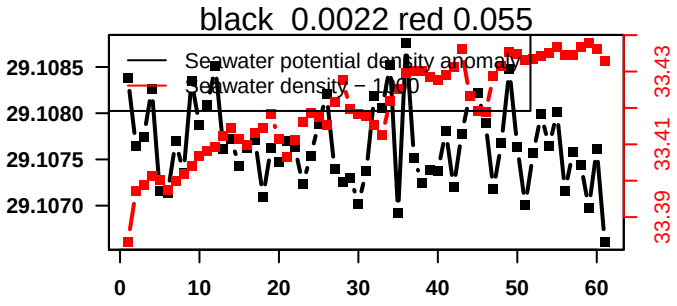

black 0.0039 red 0.057
Seawater potential density anomaly
Seawater density − 1000
29.110
29.109
29.108
29.107
33.45
33.42
33.39
0
10
20
30
40
50
60

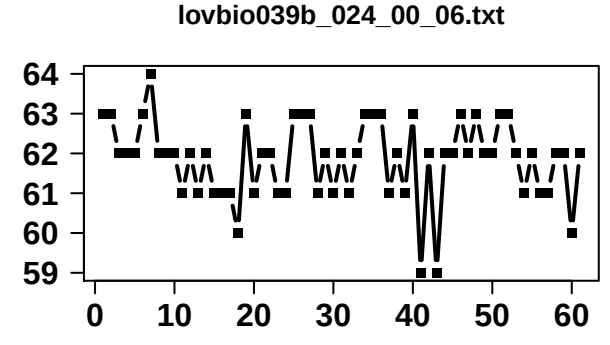

lovbio039b_023_00_06.txt
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

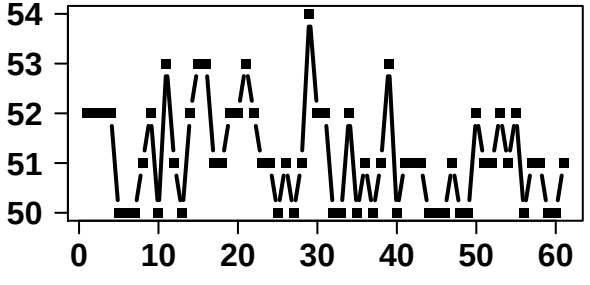

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

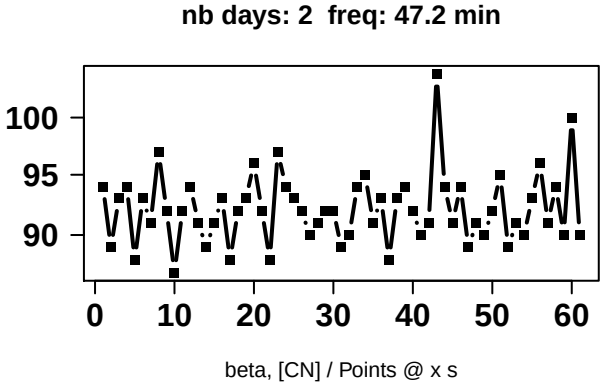

nb days: 2 freq: 48 min
100
98
96
94
92
90
88
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

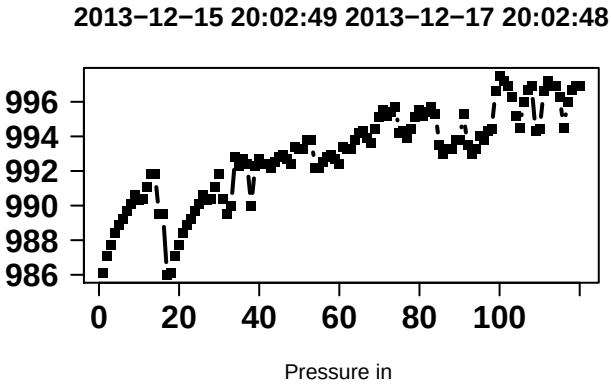

2013−12−12 19:38:22 2013−12−14 19:38:21
992
990
988
986
984
982
980
0
20
40
60
80
100
Pressure in

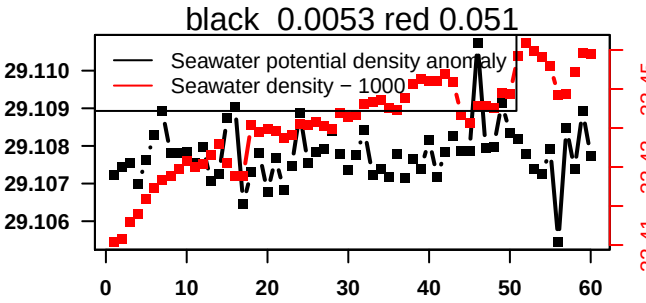

black 0.0022 red 0.055
Seawater potential density anomaly
Seawater density − 1000
29.1085
29.1080
29.1075
29.1070
33.43
33.41
33.39
0
10
20
30
40
50
60

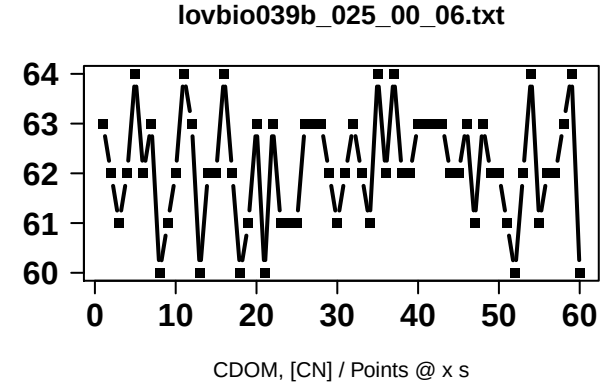

lovbio039b_024_00_06.txt
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

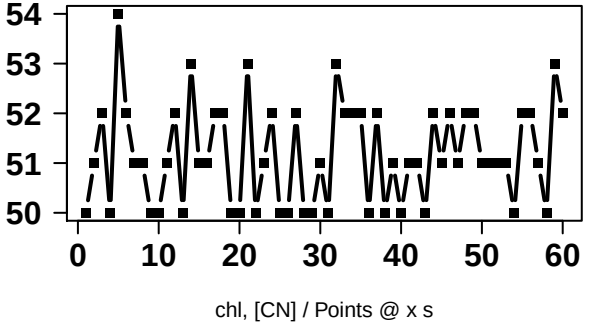

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

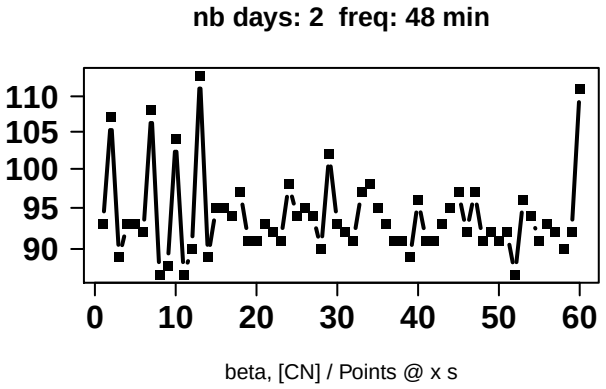

nb days: 2 freq: 47.2 min
100
95
90
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

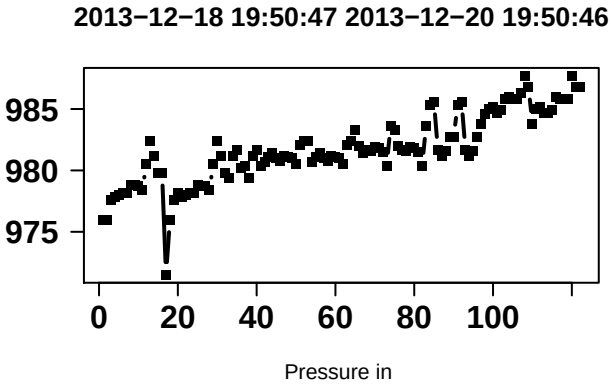

2013−12−15 20:02:49 2013−12−17 20:02:48
996
994
992
990
988
986
0
20
40
60
80
100
Pressure in

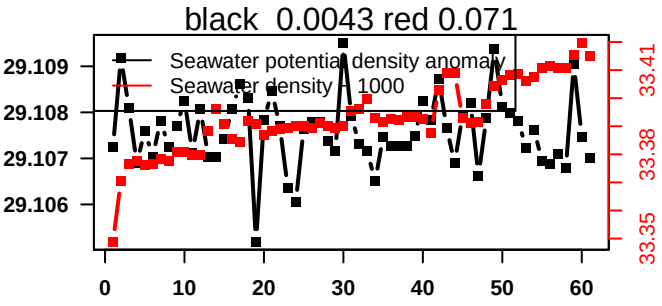

black 0.0053 red 0.051
Seawater potential density anomaly
Seawater density − 1000
29.110
29.109
29.108
29.107
29.106
33.45
33.43
33.41
0
10
20
30
40
50
60

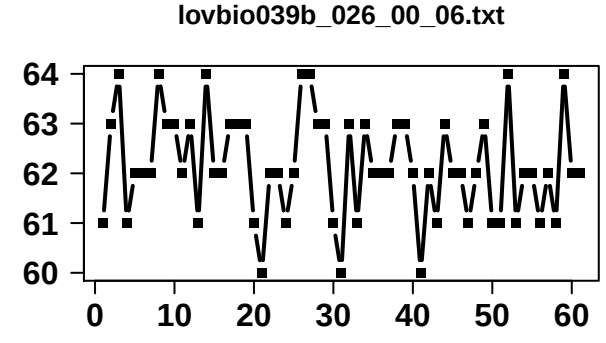

lovbio039b_025_00_06.txt
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

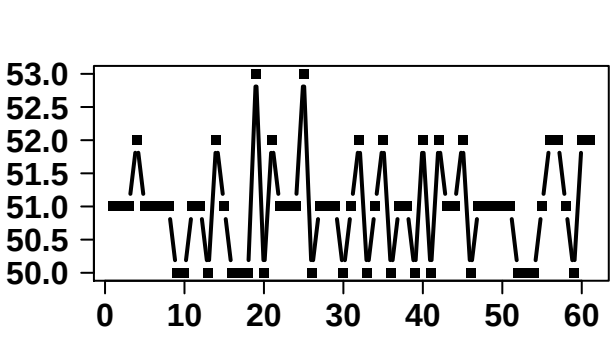

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

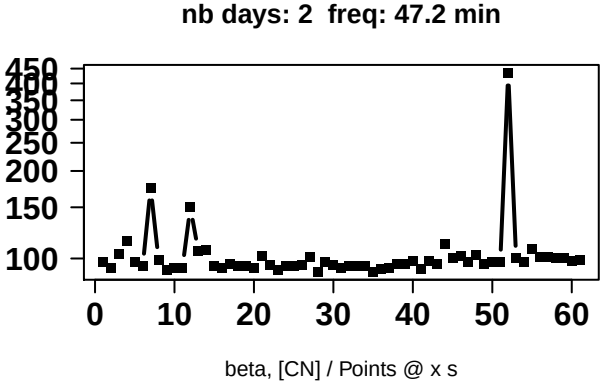

nb days: 2 freq: 48 min
110
105
100
95
90
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

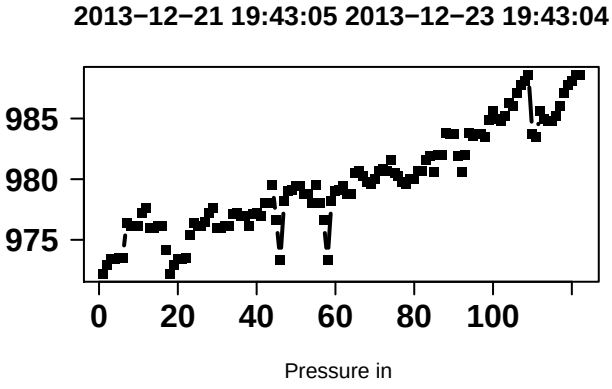

2013−12−18 19:50:47 2013−12−20 19:50:46
985
980
975
0
20
40
60
80
100
Pressure in

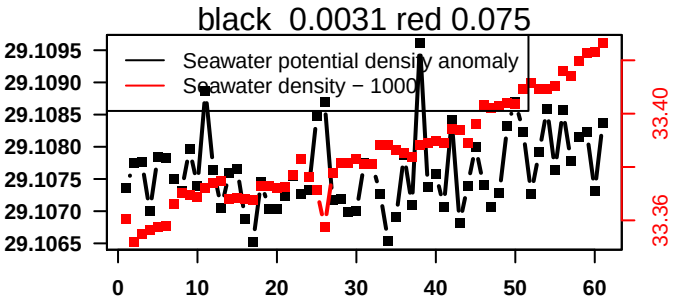

black 0.0043 red 0.071
Seawater potential density anomaly
Seawater density − 1000
29.109
29.108
29.107
29.106
33.41
33.38
33.35
0
10
20
30
40
50
60

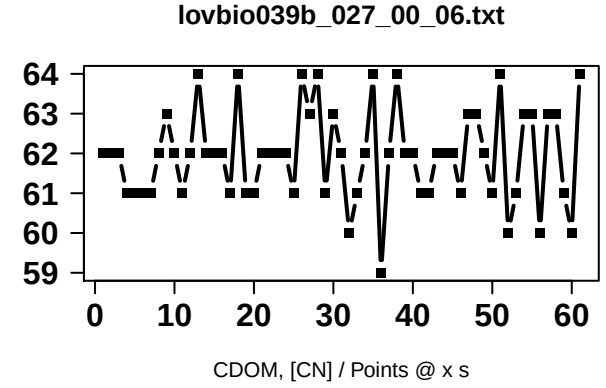

lovbio039b_026_00_06.txt
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

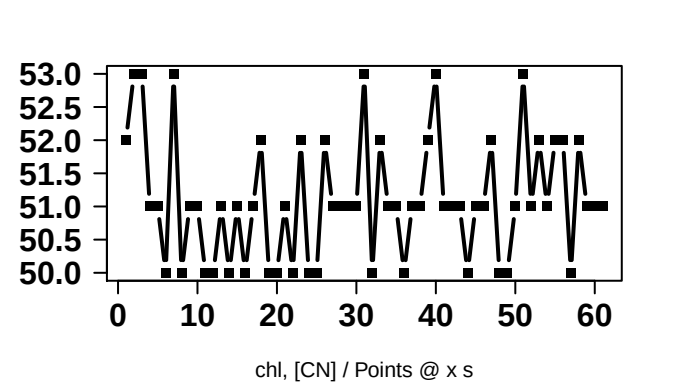

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

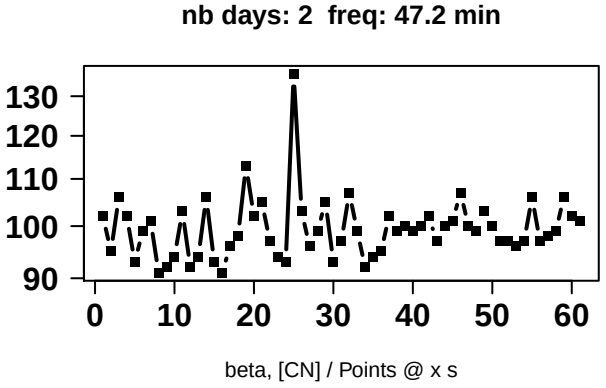

nb days: 2 freq: 47.2 min
450
400
350
300
250
200
150
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

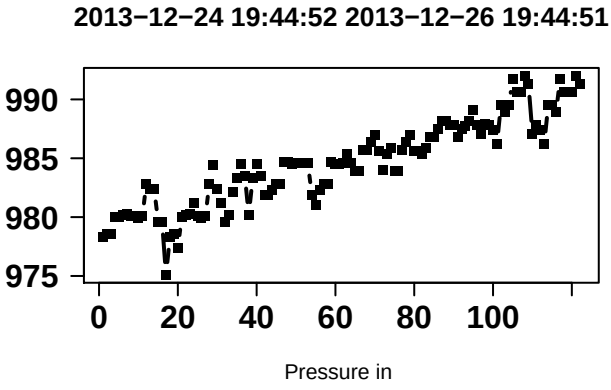

2013−12−21 19:43:05 2013−12−23 19:43:04
985
980
975
0
20
40
60
80
100
Pressure in

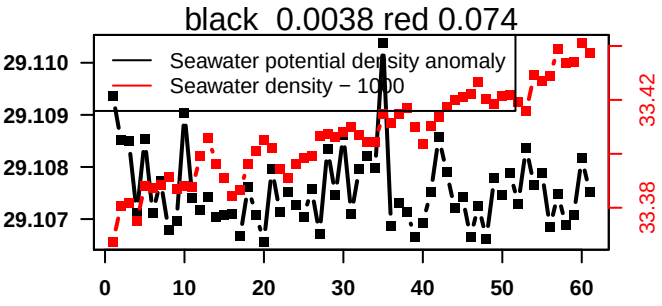

black 0.0031 red 0.075
Seawater potential density anomaly
Seawater density − 1000
29.1095
29.1090
29.1085
29.1080
29.1075
29.1070
29.1065
33.40
33.36
0
10
20
30
40
50
60

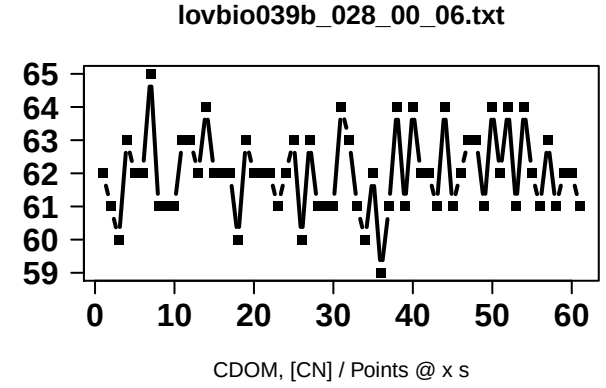

lovbio039b_027_00_06.txt
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

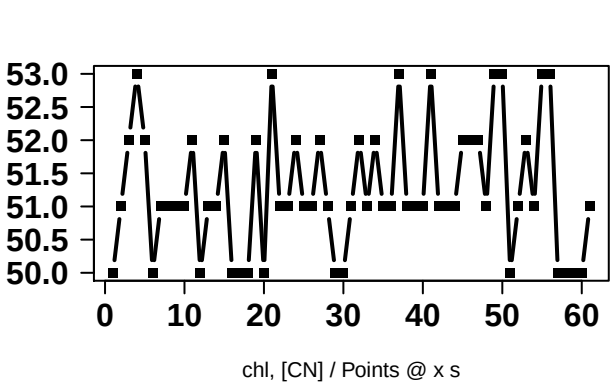

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

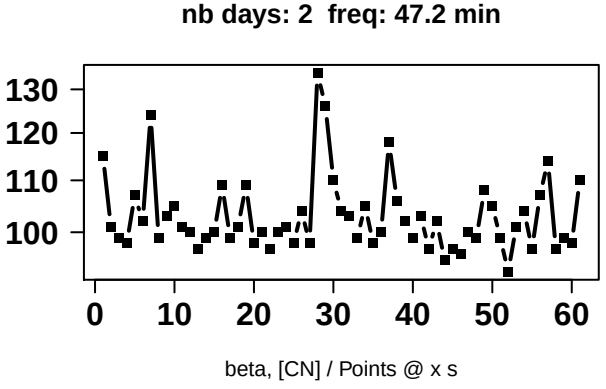

nb days: 2 freq: 47.2 min
130
120
110
100
90
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

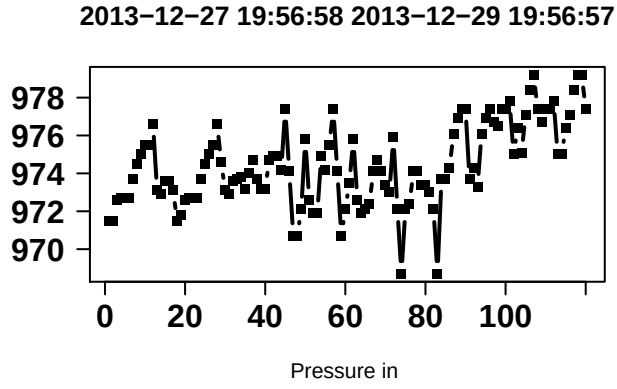

2013−12−24 19:44:52 2013−12−26 19:44:51
990
985
980
975
0
20
40
60
80
100
Pressure in

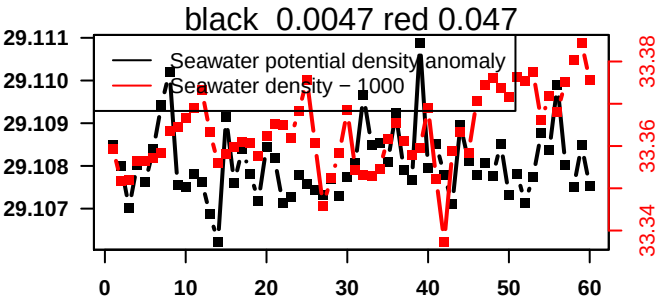

black 0.0038 red 0.074
Seawater potential density anomaly
Seawater density − 1000
29.110
29.109
29.108
29.107
33.42
33.38
0
10
20
30
40
50
60

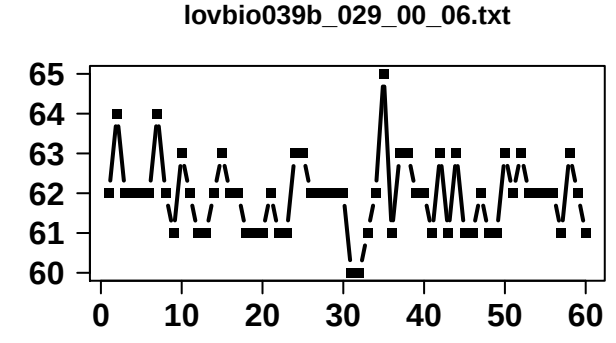

lovbio039b_028_00_06.txt
65
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

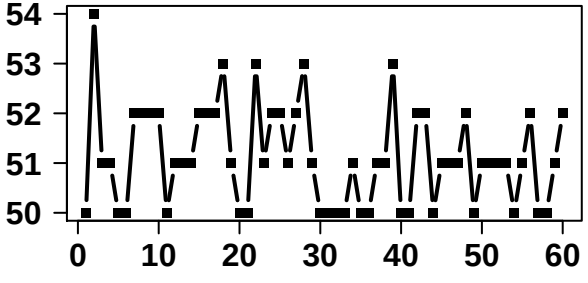

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

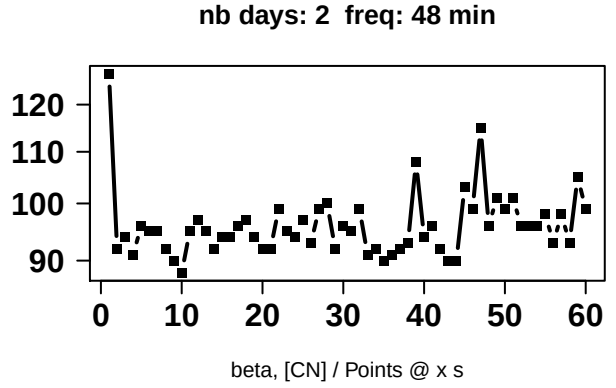

nb days: 2 freq: 47.2 min
130
120
110
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

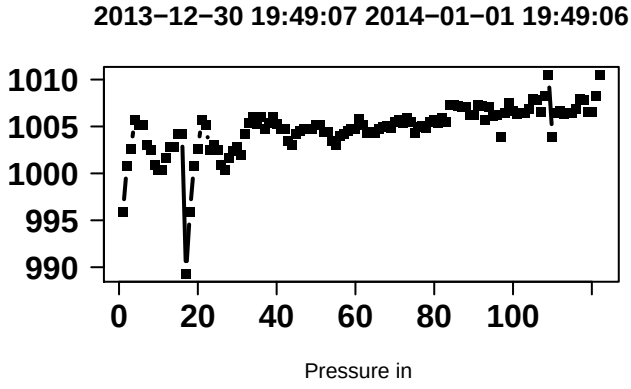

2013−12−27 19:56:58 2013−12−29 19:56:57
978
976
974
972
970
0
20
40
60
80
100
Pressure in

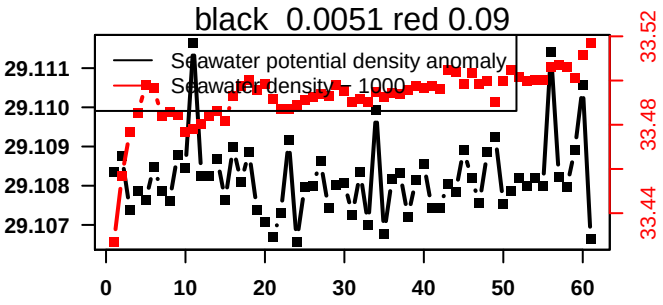

black 0.0047 red 0.047
Seawater potential density anomaly
Seawater density − 1000
29.111
29.110
29.109
29.108
29.107
33.38
33.36
33.34
0
10
20
30
40
50
60

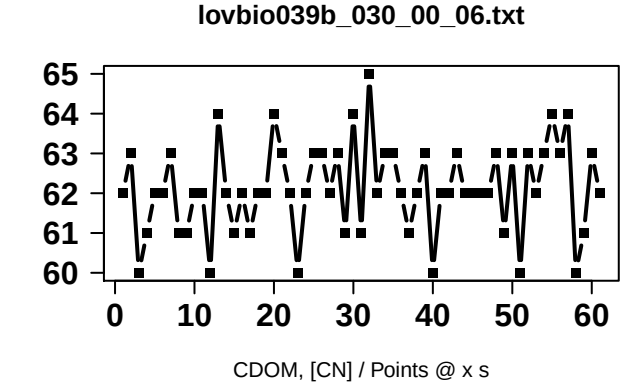

lovbio039b_029_00_06.txt
65
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

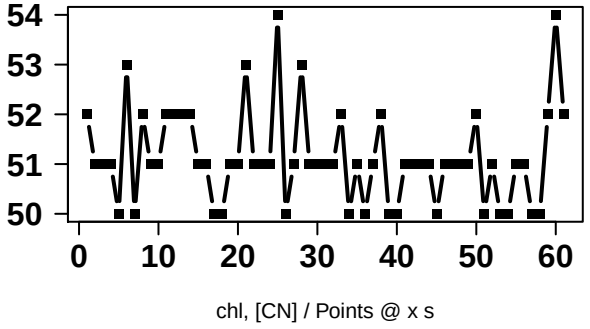

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

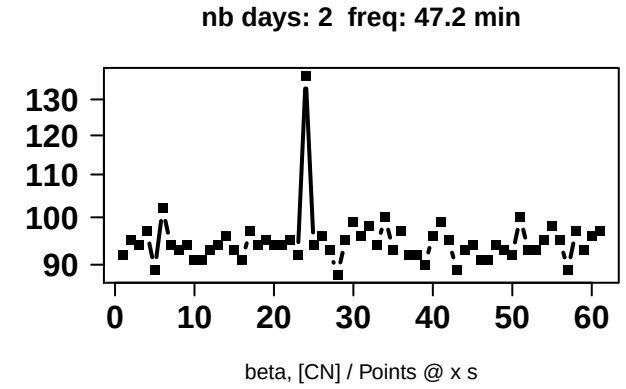

nb days: 2 freq: 48 min
120
110
100
90
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

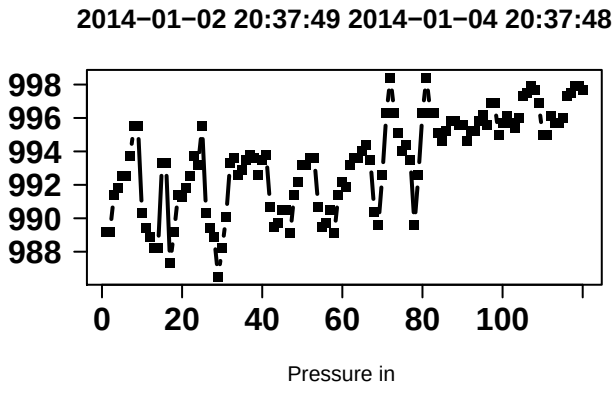

2013−12−30 19:49:07 2014−01−01 19:49:06
1010
1005
1000
995
990
0
20
40
60
80
100
Pressure in

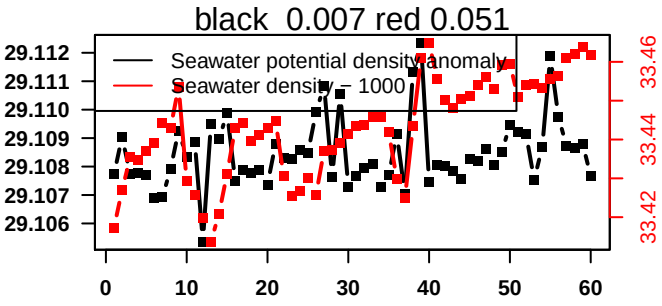

black 0.0051 red 0.09
Seawater potential density anomaly
Seawater density − 1000
29.111
29.110
29.109
29.108
29.107
33.52
33.48
33.44
0
10
20
30
40
50
60

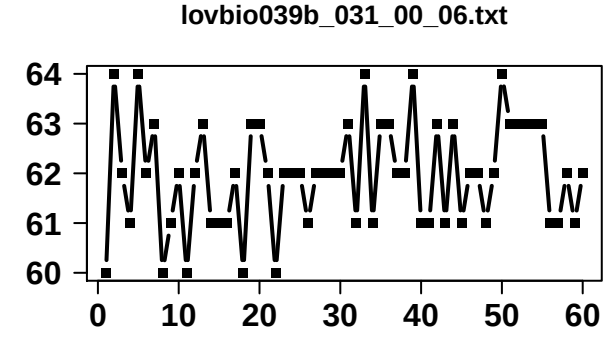

lovbio039b_030_00_06.txt
65
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

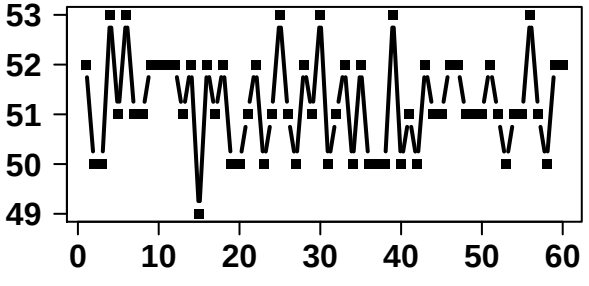

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

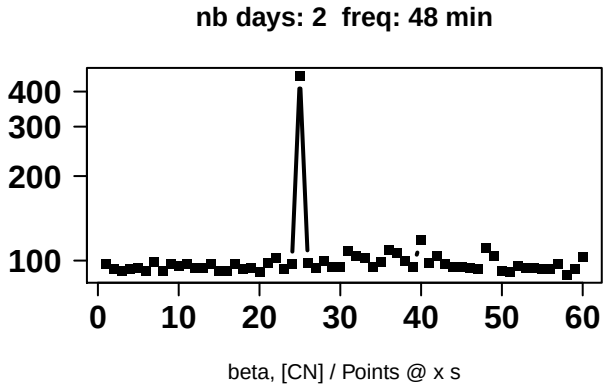

nb days: 2 freq: 47.2 min
130
120
110
100
90
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

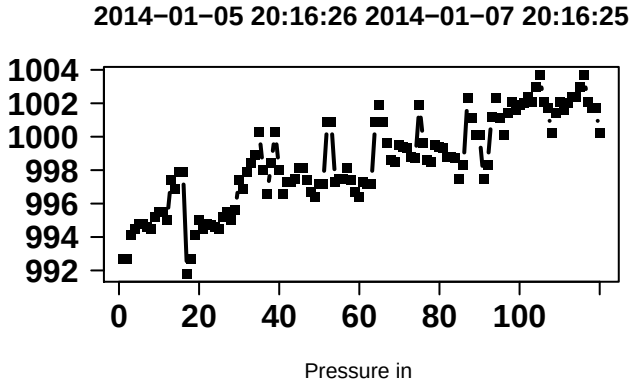

2014−01−02 20:37:49 2014−01−04 20:37:48
998
996
994
992
990
988
0
20
40
60
80
100
Pressure in

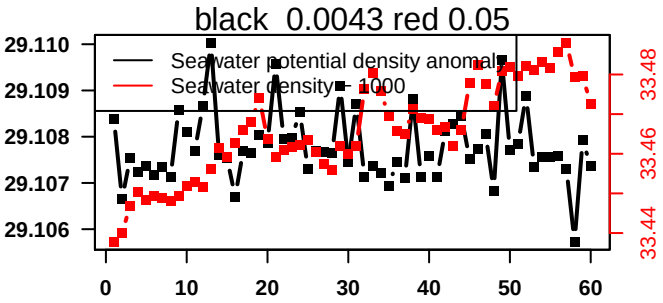

black 0.007 red 0.051
Seawater potential density anomaly
Seawater density − 1000
29.112
29.111
29.110
29.109
29.108
29.107
29.106
33.46
33.44
33.42
0
10
20
30
40
50
60

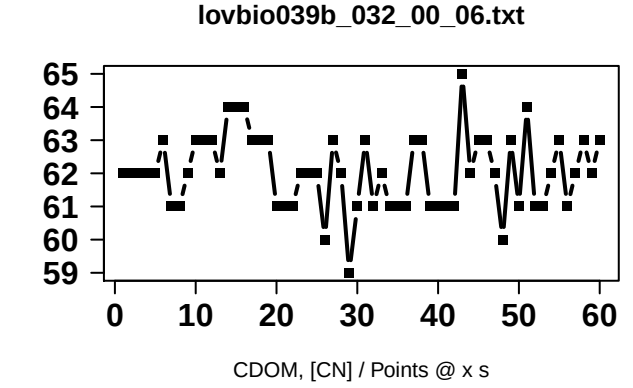

lovbio039b_031_00_06.txt
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

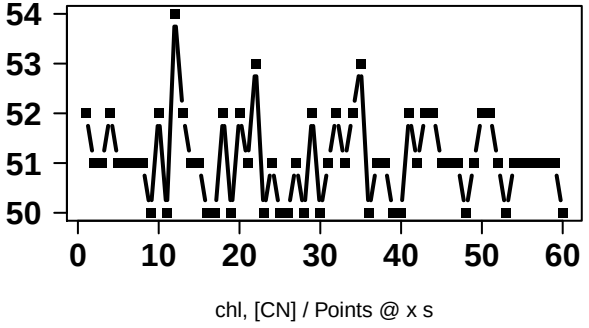

53
52
51
50
49
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

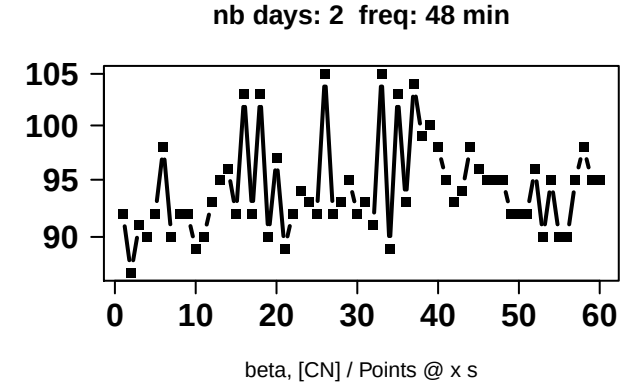

nb days: 2 freq: 48 min
400
300
200
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

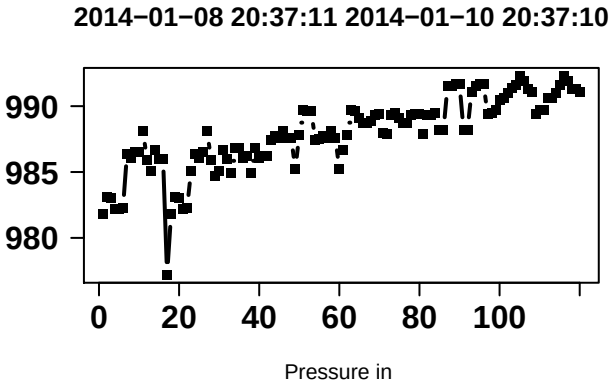

2014−01−05 20:16:26 2014−01−07 20:16:25
1004
1002
1000
998
996
994
992
0
20
40
60
80
100
Pressure in

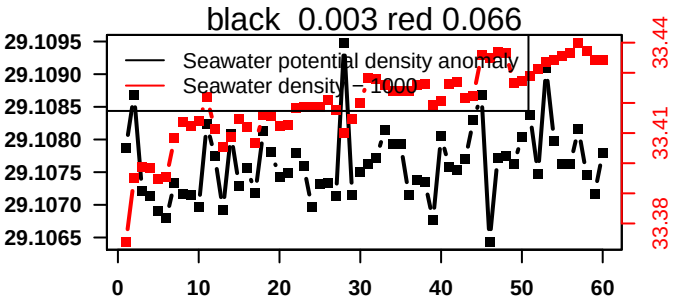

black 0.0043 red 0.05
Seawater potential density anomaly
Seawater density − 1000
29.110
29.109
29.108
29.107
29.106
33.48
33.46
33.44
0
10
20
30
40
50
60

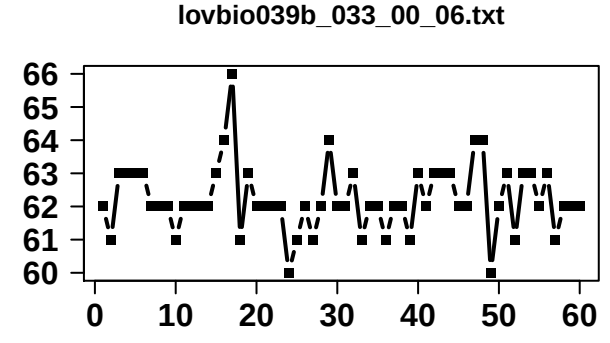

lovbio039b_032_00_06.txt
65
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

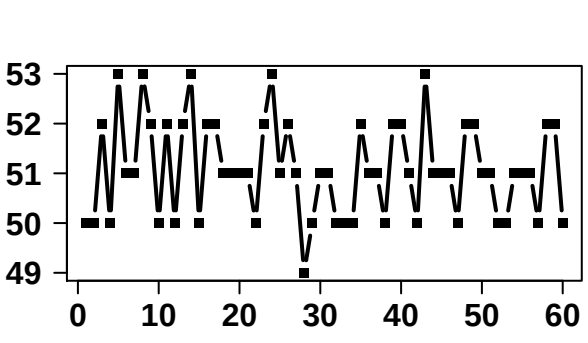

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

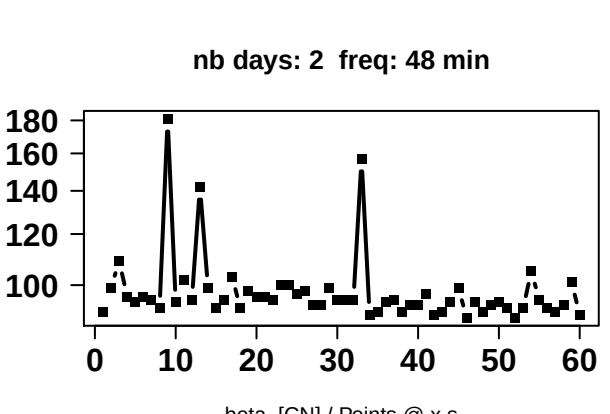

nb days: 2 freq: 48 min
105
100
95
90
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

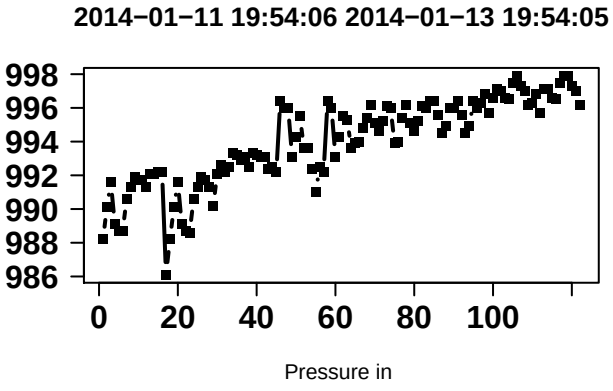

2014−01−08 20:37:11 2014−01−10 20:37:10
990
985
980
0
20
40
60
80
100
Pressure in

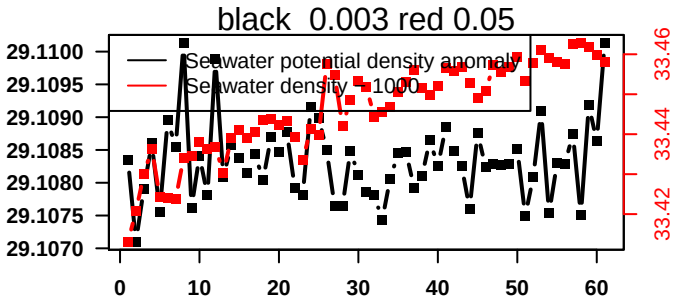

black 0.003 red 0.066
Seawater potential density anomaly
Seawater density −1000
29.1095
29.1090
29.1085
29.1080
29.1075
29.1070
29.1065
33.44
33.41
33.38
0
10
20
30
40
50
60

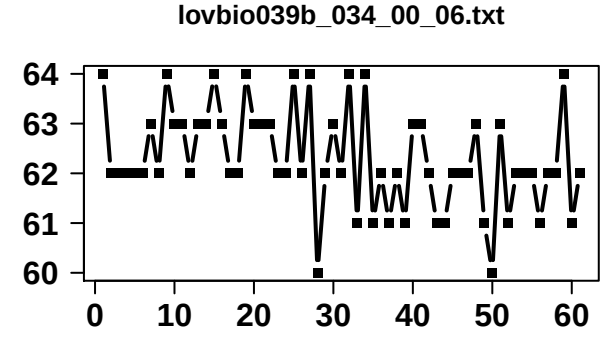

lovbio039b_033_00_06.txt
66
65
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

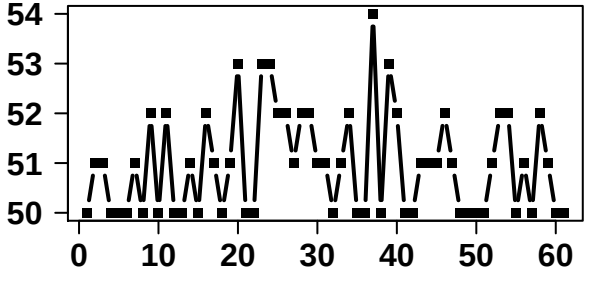

53
52
51
50
49
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

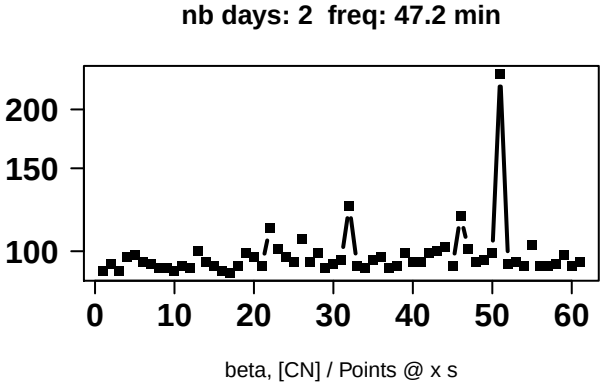

nb days: 2 freq: 48 min
180
160
140
120
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

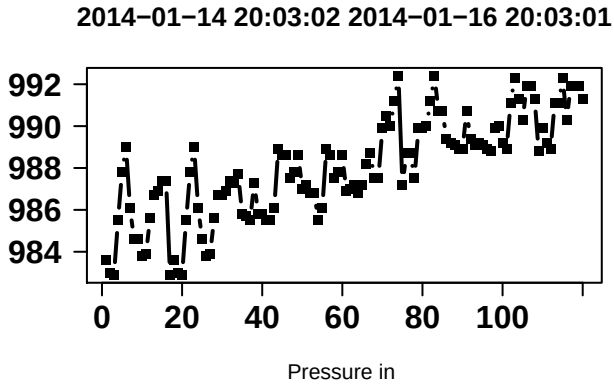

2014−01−11 19:54:06 2014−01−13 19:54:05
998
996
994
992
990
988
986
0
20
40
60
80
100
Pressure in

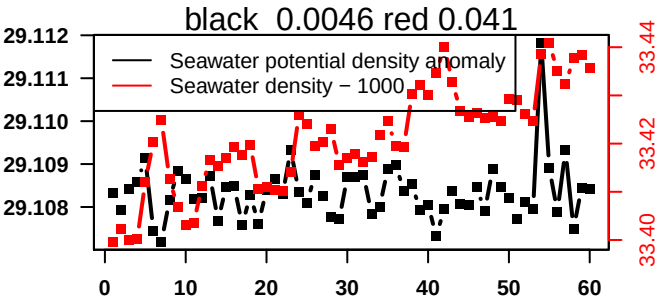

black 0.003 red 0.05
Seawater potential density anomaly
Seawater density −1000
29.1100
29.1095
29.1090
29.1085
29.1080
29.1075
29.1070
33.46
33.44
33.42
0
10
20
30
40
50
60

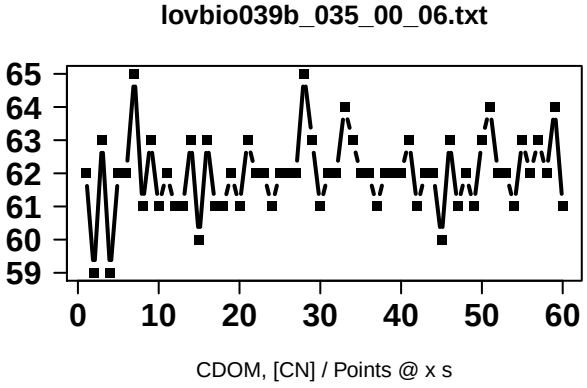

lovbio039b_034_00_06.txt
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

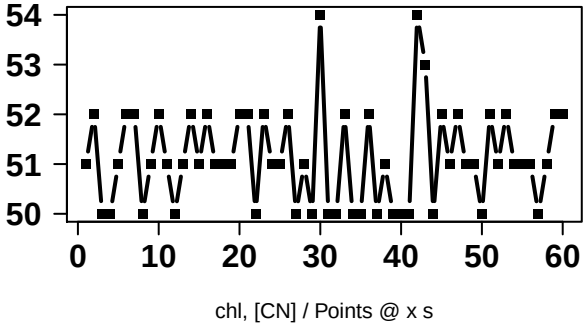

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

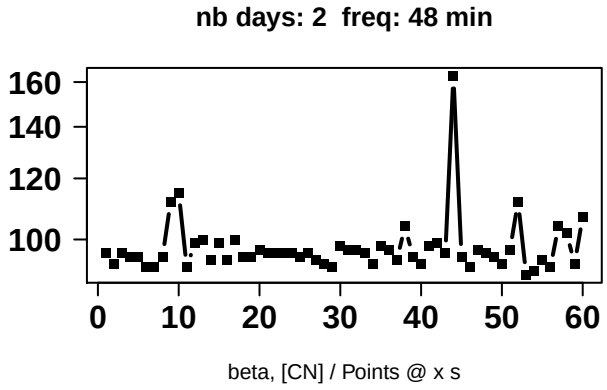

nb days: 2 freq: 47.2 min
200
150
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

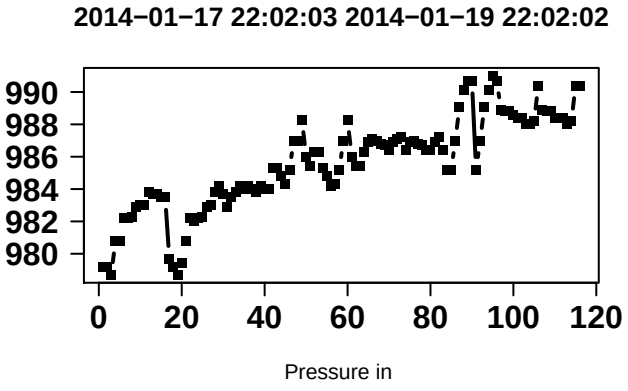

2014−01−14 20:03:02 2014−01−16 20:03:01
992
990
988
986
984
0
20
40
60
80
100
Pressure in

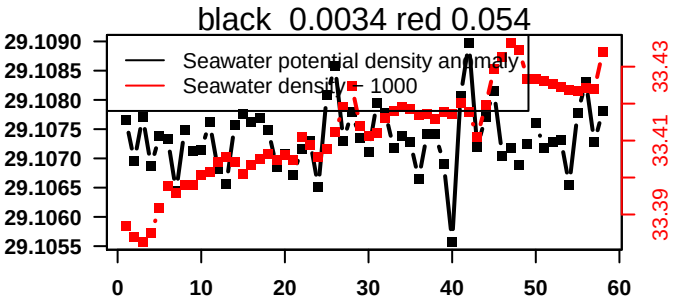

black 0.0046 red 0.041
Seawater potential density anomaly
Seawater density − 1000
29.112
29.111
29.110
29.109
29.108
33.44
33.42
33.40
0
10
20
30
40
50
60

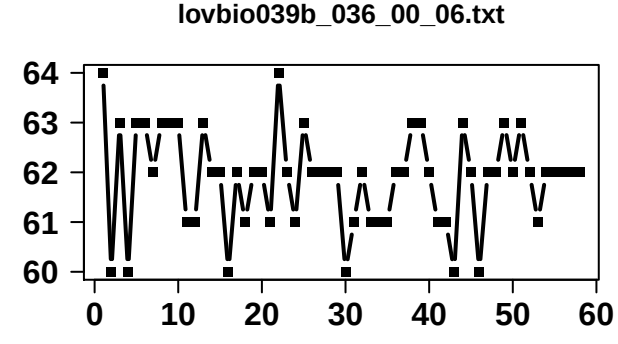

lovbio039b_035_00_06.txt
65
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

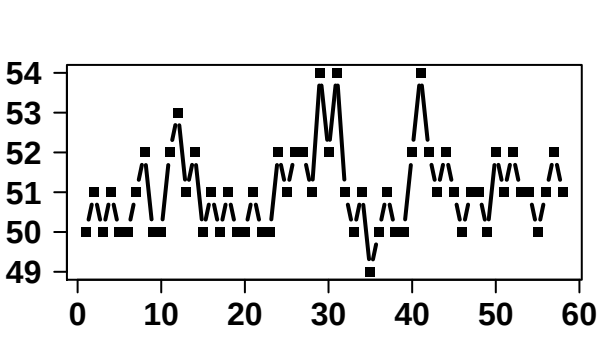

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

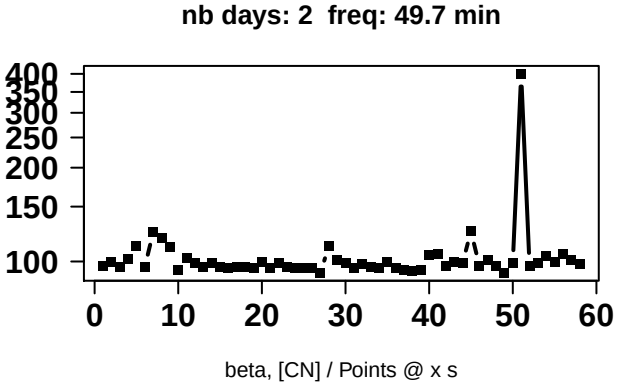

nb days: 2 freq: 48 min
160
140
120
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

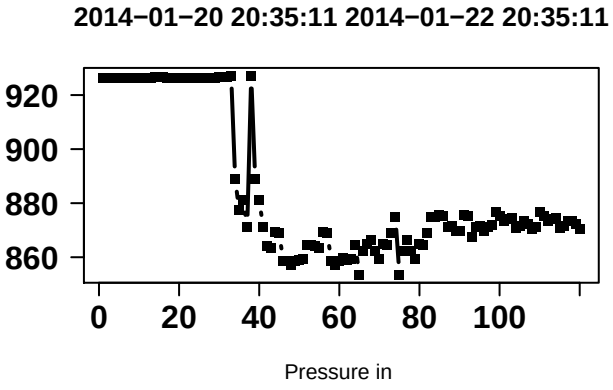

2014−01−17 22:02:03 2014−01−19 22:02:02
990
988
986
984
982
980
0
20
40
60
80
100
120
Pressure in

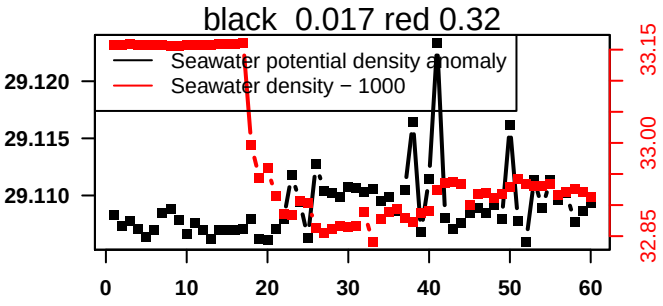

black 0.0034 red 0.054
Seawater potential density anomaly
Seawater density − 1000
29.1090
29.1085
29.1080
29.1075
29.1070
29.1065
29.1060
29.1055
33.43
33.41
33.39
0
10
20
30
40
50
60

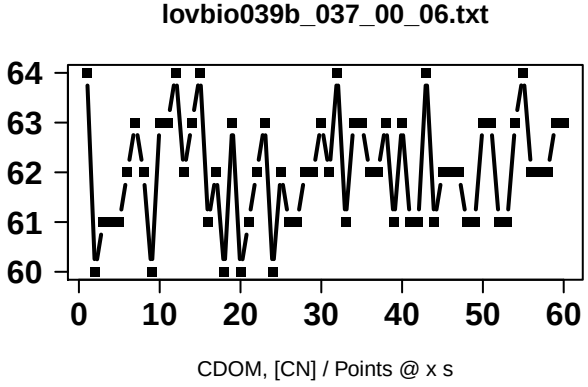

lovbio039b_036_00_06.txt
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

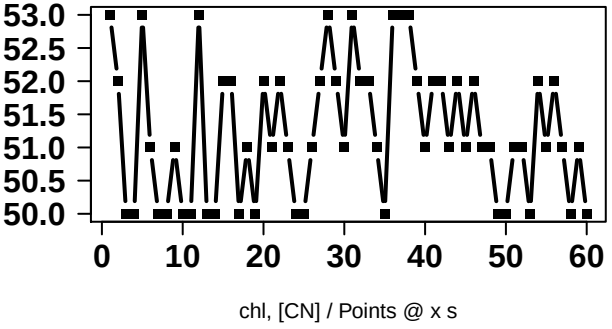

54
53
52
51
50
49
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

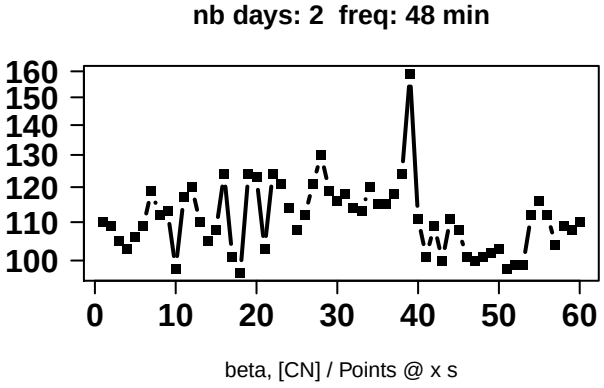

nb days: 2 freq: 49.7 min
400
350
300
250
200
150
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

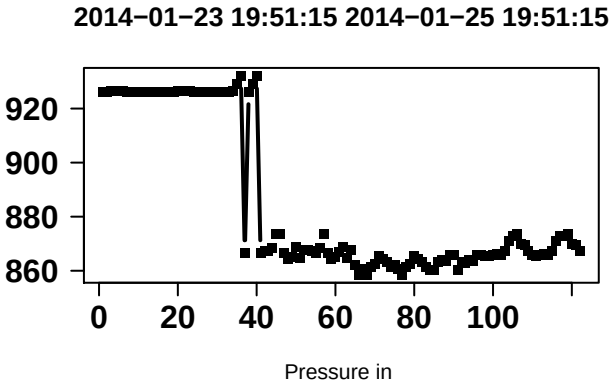

2014−01−20 20:35:11 2014−01−22 20:35:11
920
900
880
860
0
20
40
60
80
100
Pressure in

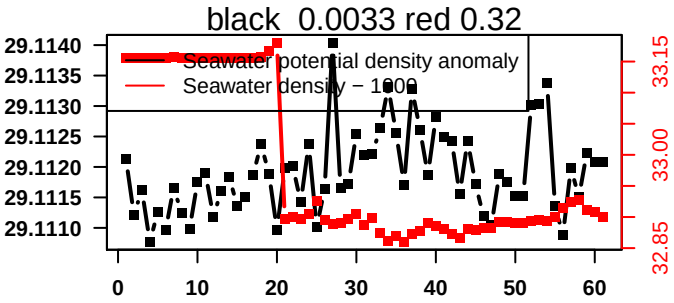

black 0.017 red 0.32
Seawater potential density anomaly
Seawater density − 1000
29.120
29.115
29.110
33.15
33.00
32.85
0
10
20
30
40
50
60

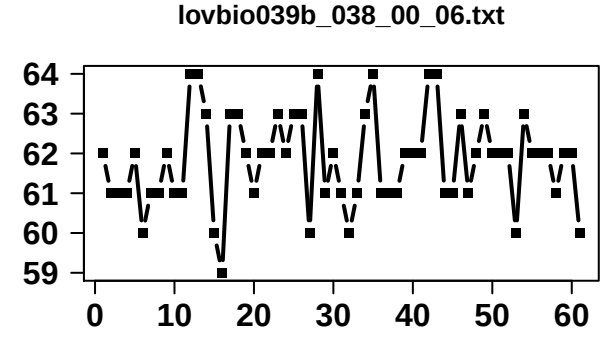

lovbio039b_037_00_06.txt
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

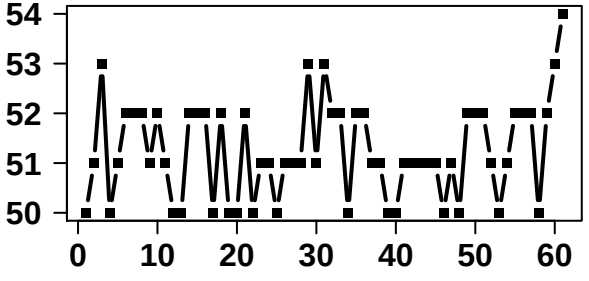

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

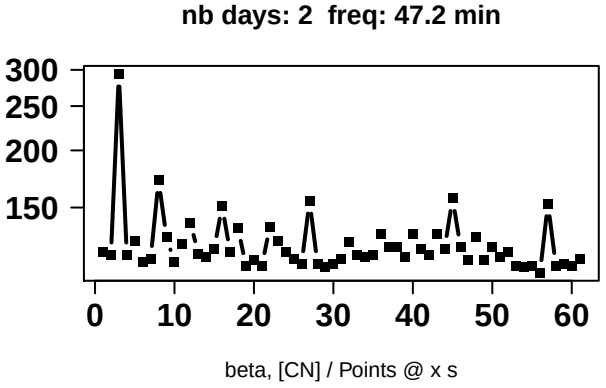

nb days: 2 freq: 48 min
160
150
140
130
120
110
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

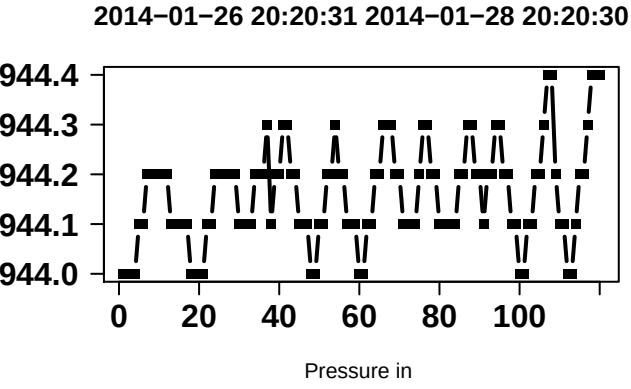

2014−01−23 19:51:15 2014−01−25 19:51:15
920
900
880
860
0
20
40
60
80
100
Pressure in

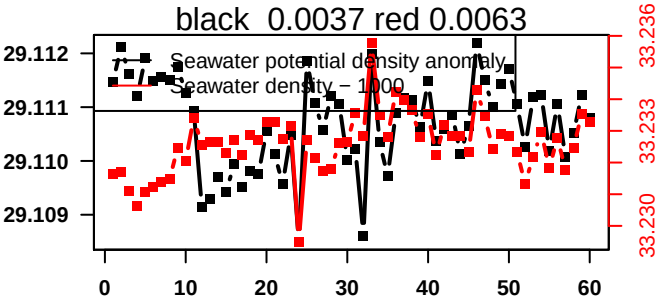

black 0.0033 red 0.32
Seawater potential density anomaly
Seawater density − 1000
29.1140
29.1135
29.1130
29.1125
29.1120
29.1115
29.1110
33.15
33.00
32.85
0
10
20
30
40
50
60

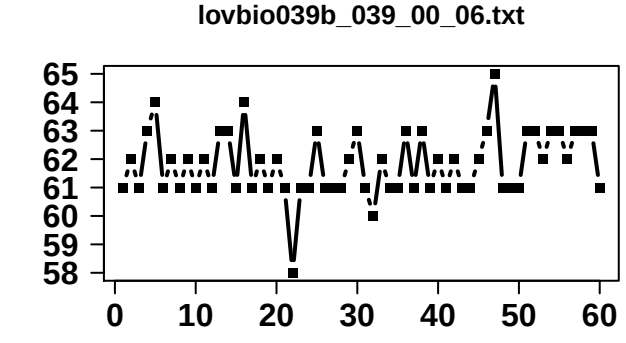

lovbio039b_038_00_06.txt
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

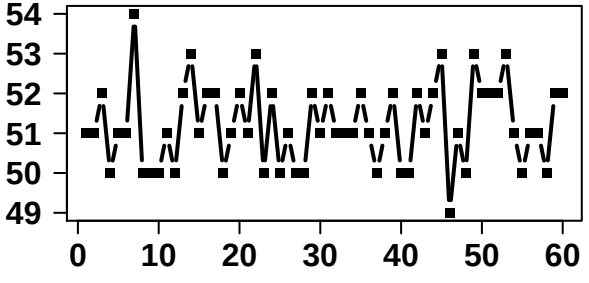

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

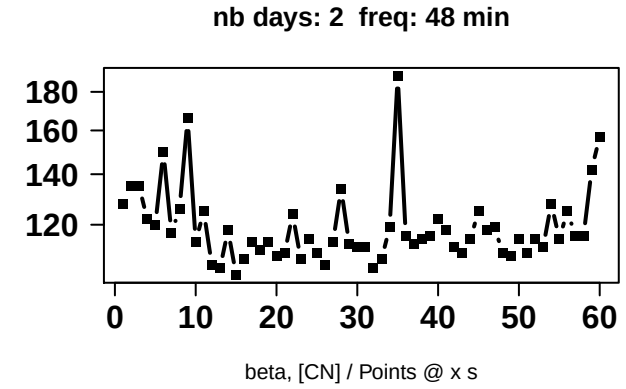

nb days: 2 freq: 47.2 min
300
250
200
150
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

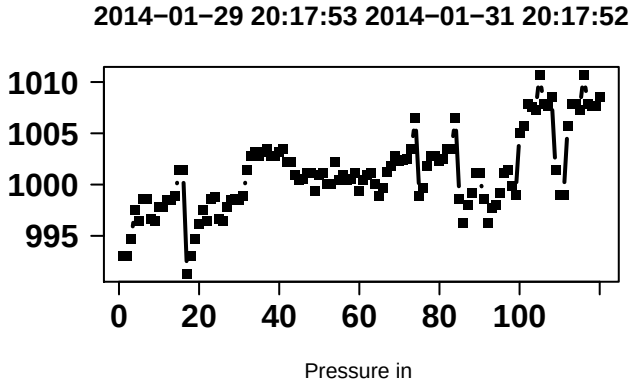

2014−01−26 20:20:31 2014−01−28 20:20:30
944.4
944.3
944.2
944.1
944.0
0
20
40
60
80
100
Pressure in

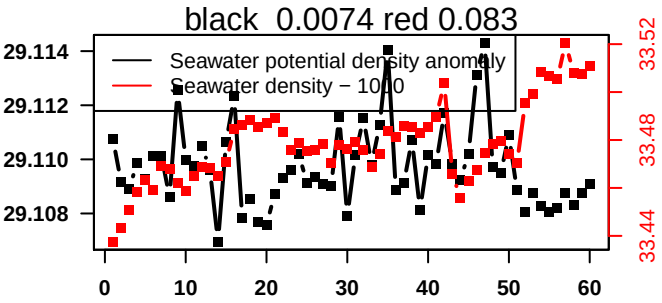

black 0.0037 red 0.0063
Seawater potential density anomaly
Seawater density − 1000
29.112
29.111
29.110
29.109
33.236
33.233
33.230
0
10
20
30
40
50
60

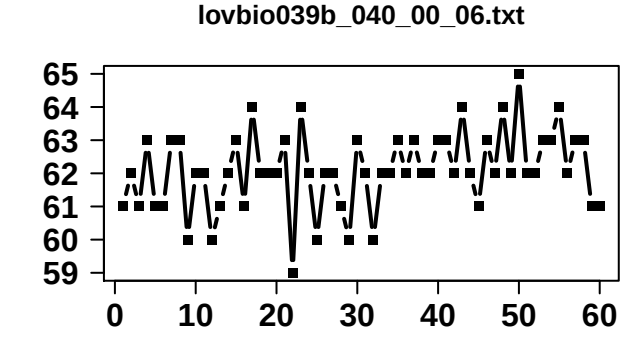

lovbio039b_039_00_06.txt
65
64
63
62
61
60
59
58
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

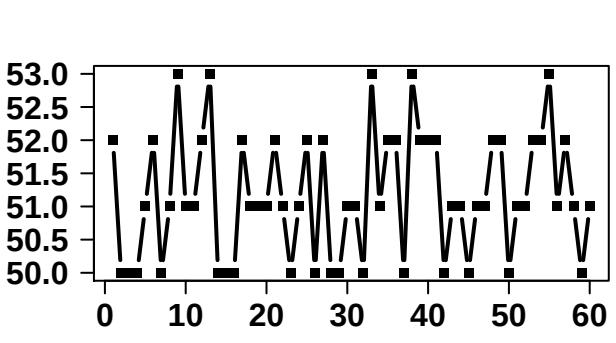

54
53
52
51
50
49
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

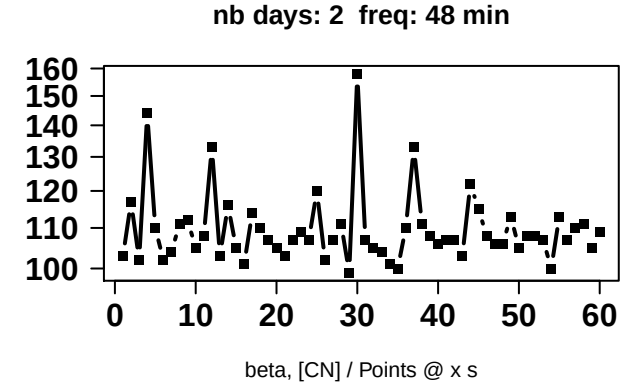

nb days: 2 freq: 48 min
180
160
140
120
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

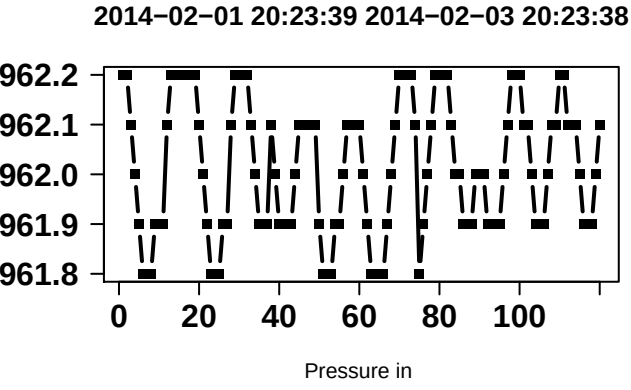

2014−01−29 20:17:53 2014−01−31 20:17:52
1010
1005
1000
995
0
20
40
60
80
100
Pressure in

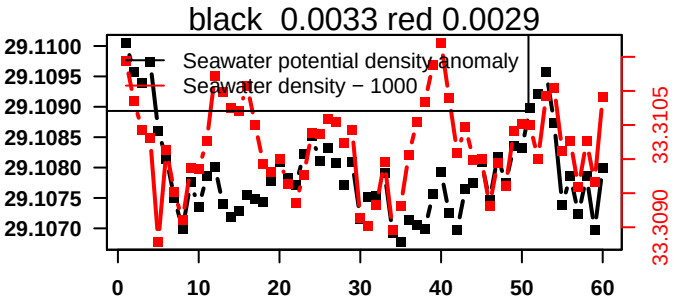

black 0.0074 red 0.083
Seawater potential density anomaly
Seawater density − 1000
29.114
29.112
29.110
29.108
33.52
33.48
33.44
0
10
20
30
40
50
60

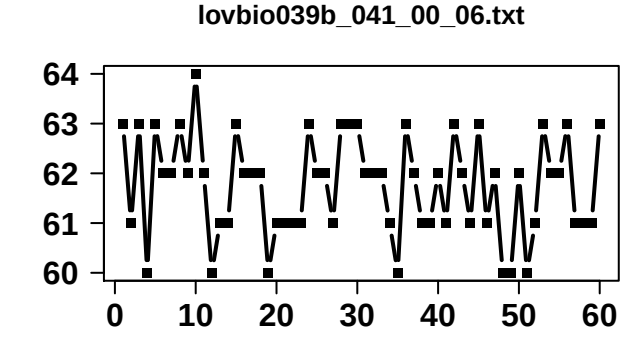

lovbio039b_040_00_06.txt
65
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

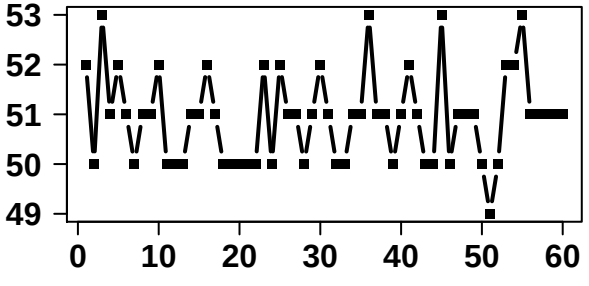

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

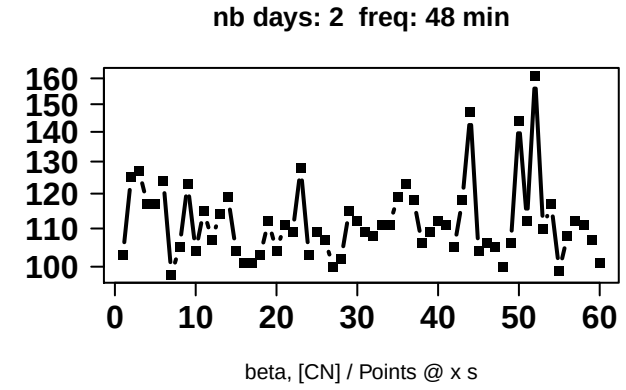

nb days: 2 freq: 48 min
160
150
140
130
120
110
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

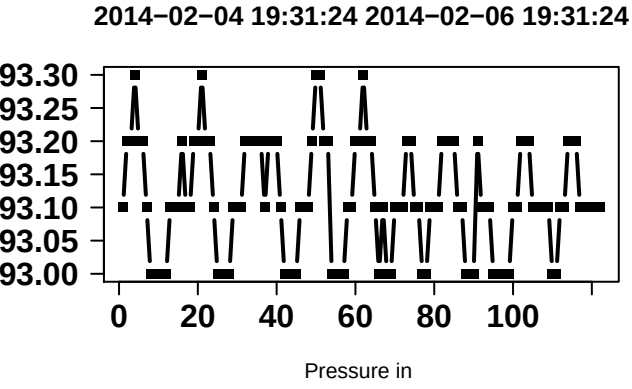

2014−02−01 20:23:39 2014−02−03 20:23:38
962.2
962.1
962.0
961.9
961.8
0
20
40
60
80
100
Pressure in

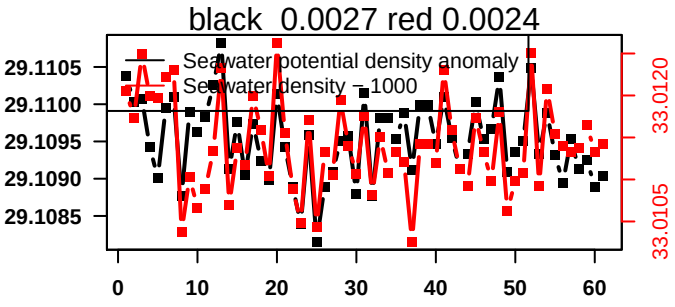

black 0.0033 red 0.0029
Seawater potential density anomaly
Seawater density − 1000
29.1100
29.1095
29.1090
29.1085
29.1080
29.1075
29.1070
33.3105
33.3090
0
10
20
30
40
50
60

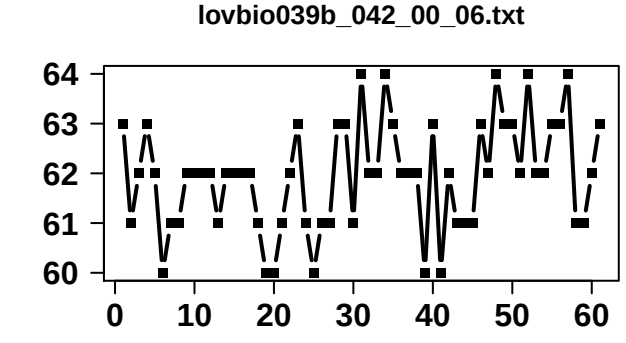

lovbio039b_041_00_06.txt
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

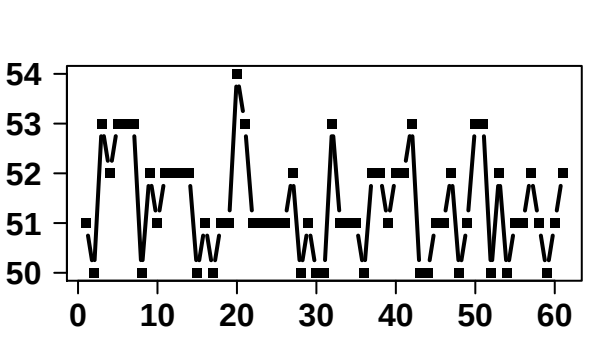

53
52
51
50
49
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

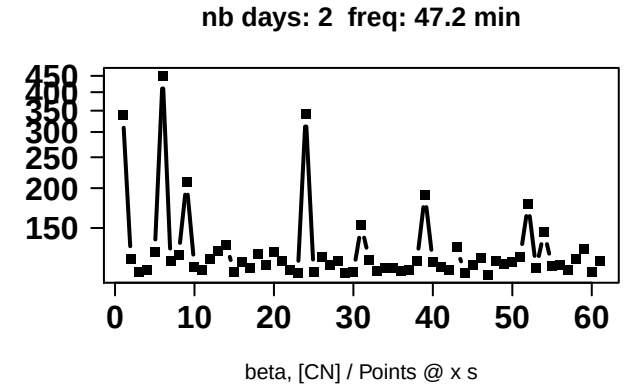

nb days: 2 freq: 48 min
160
150
140
130
120
110
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

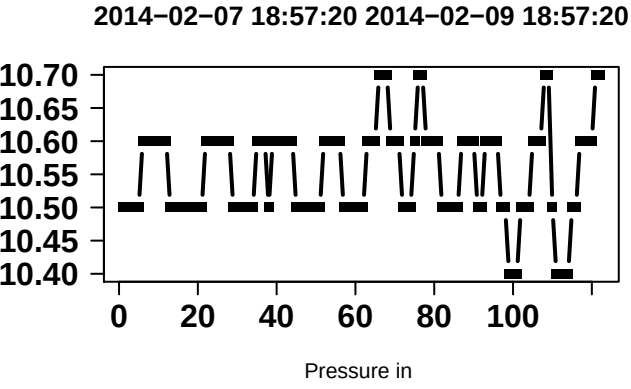

2014−02−04 19:31:24 2014−02−06 19:31:24
93.30
93.25
93.20
93.15
93.10
93.05
93.00
0
20
40
60
80
100
Pressure in

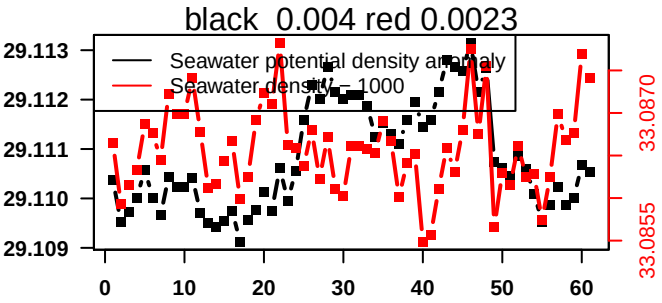

black 0.0027 red 0.0024
Seawater potential density anomaly
Seawater density − 1000
29.1105
29.1100
29.1095
29.1090
29.1085
33.0120
33.0105
0
10
20
30
40
50
60

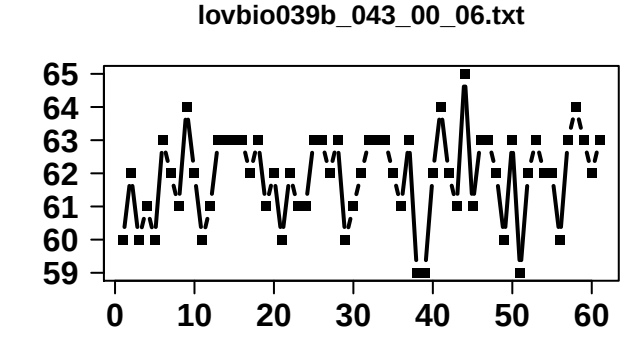

lovbio039b_042_00_06.txt
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

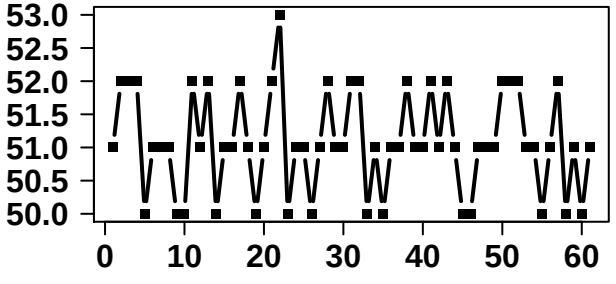

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

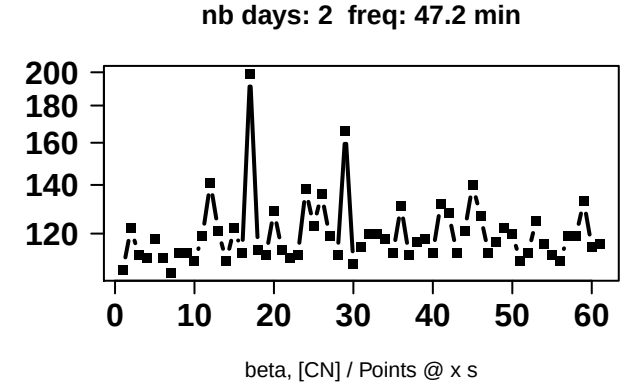

nb days: 2 freq: 47.2 min
450
400
350
300
250
200
150
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

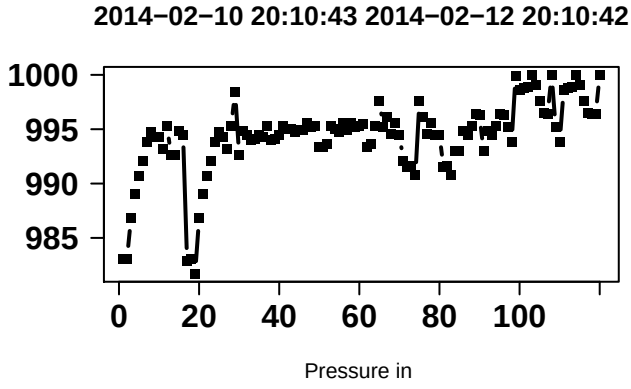

2014−02−07 18:57:20 2014−02−09 18:57:20
10.70
10.65
10.60
10.55
10.50
10.45
10.40
0
20
40
60
80
100
Pressure in

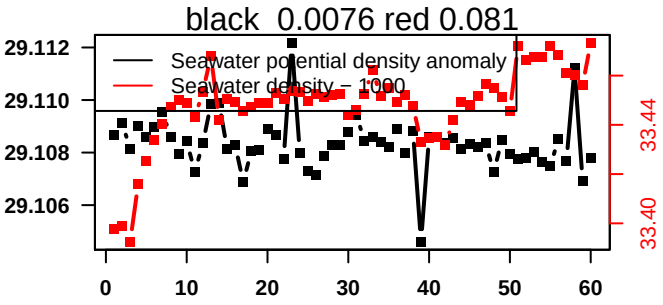

black 0.004 red 0.0023
Seawater potential density anomaly
Seawater density − 1000
29.113
29.112
29.111
29.110
29.109
33.0870
33.0855
0
10
20
30
40
50
60

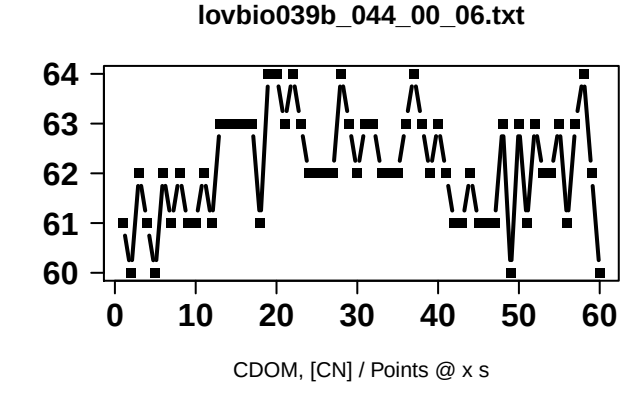

lovbio039b_043_00_06.txt
65
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

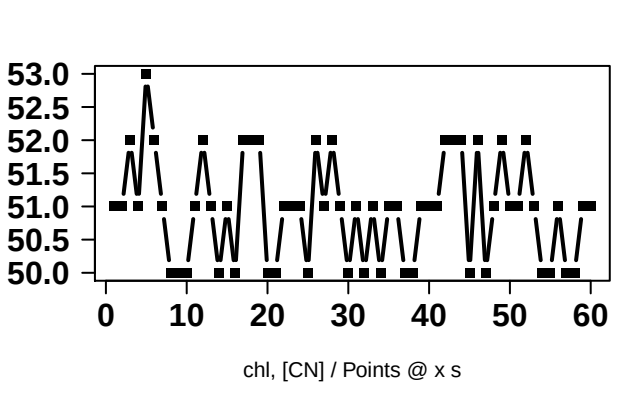

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

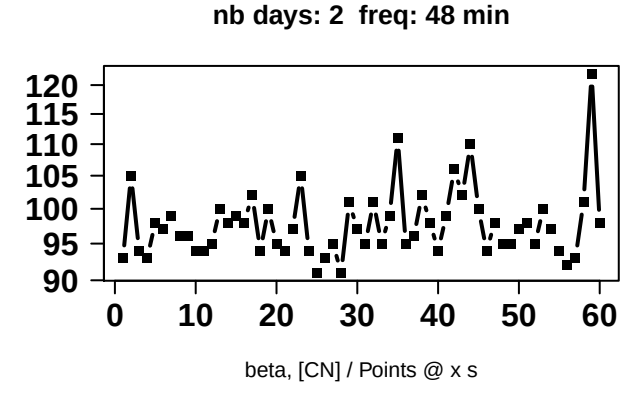

nb days: 2 freq: 47.2 min
200
180
160
140
120
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

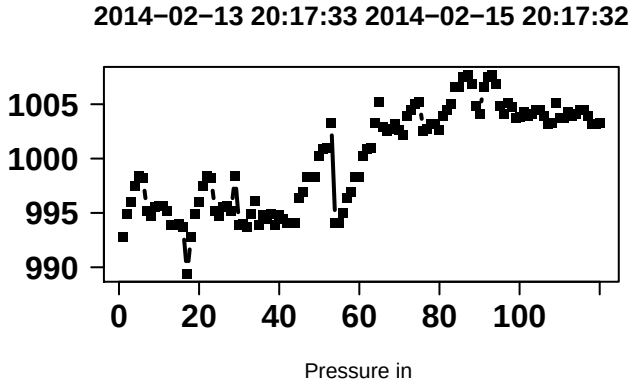

2014−02−10 20:10:43 2014−02−12 20:10:42
1000
995
990
985
0
20
40
60
80
100
Pressure in

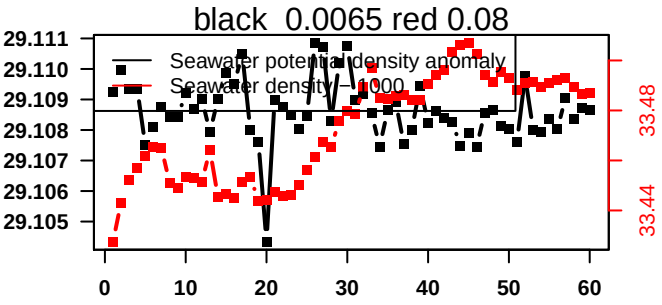

black 0.0076 red 0.081
Seawater potential density anomaly
Seawater density − 1000
29.112
29.110
29.108
29.106
33.44
33.40
0
10
20
30
40
50
60

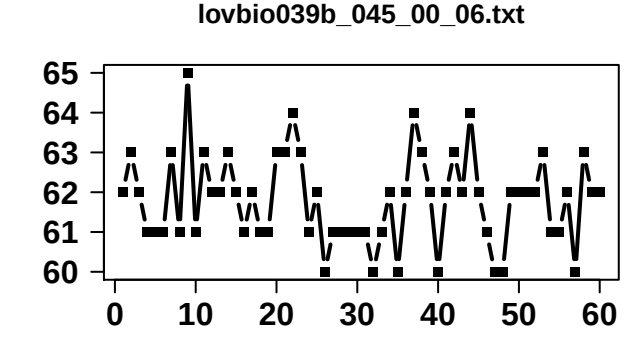

lovbio039b_044_00_06.txt
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

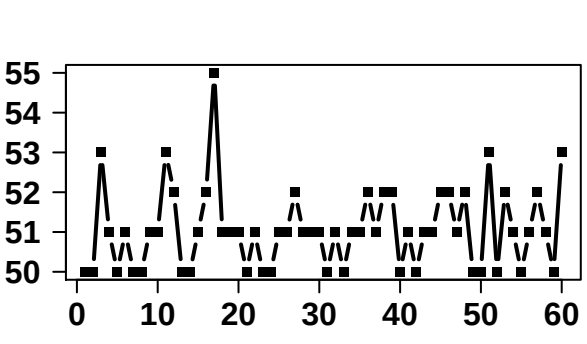

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

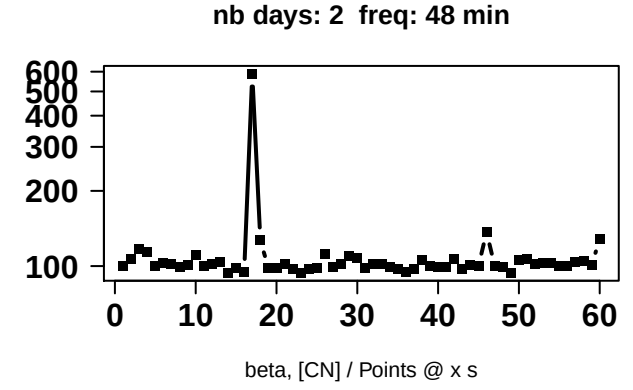

nb days: 2 freq: 48 min
120
115
110
105
100
95
90
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

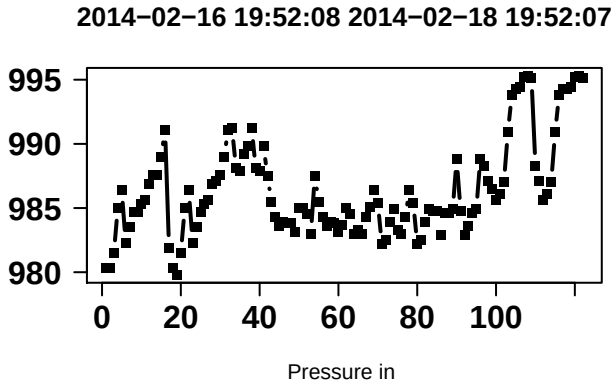

2014−02−13 20:17:33 2014−02−15 20:17:32
1005
1000
995
990
0
20
40
60
80
100
Pressure in

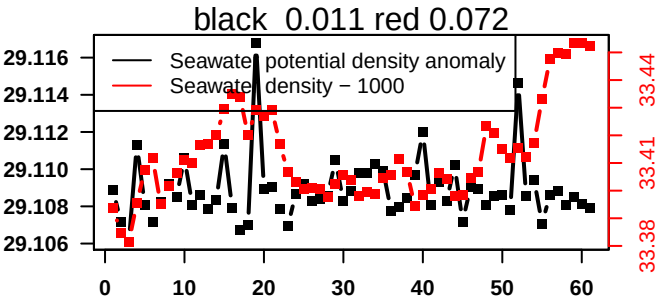

black 0.0065 red 0.08
Seawater potential density anomaly
Seawater density −1000
29.111
29.110
29.109
29.108
29.107
29.106
29.105
33.48
33.44
0
10
20
30
40
50
60

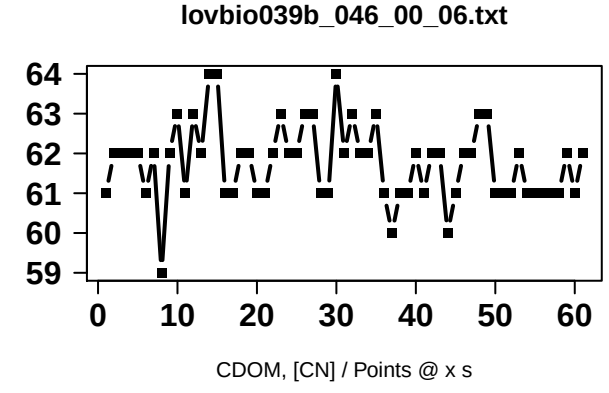

lovbio039b_045_00_06.txt
65
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

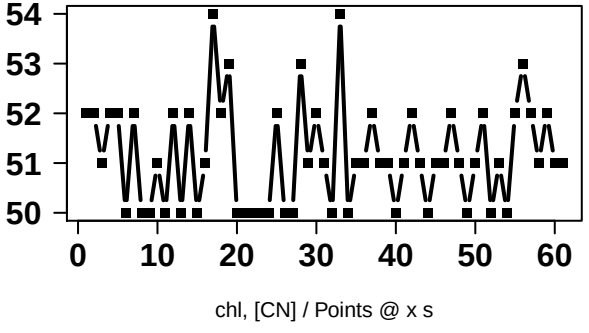

55
54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

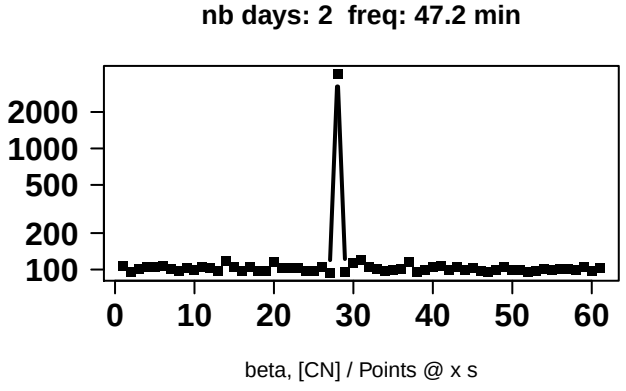

nb days: 2 freq: 48 min
600
500
400
300
200
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

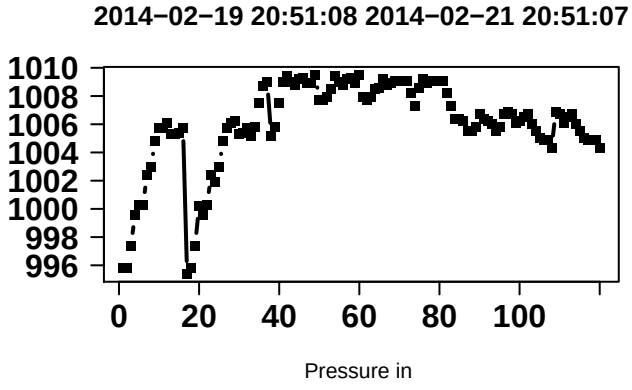

2014−02−16 19:52:08 2014−02−18 19:52:07
995
990
985
980
0
20
40
60
80
100
Pressure in

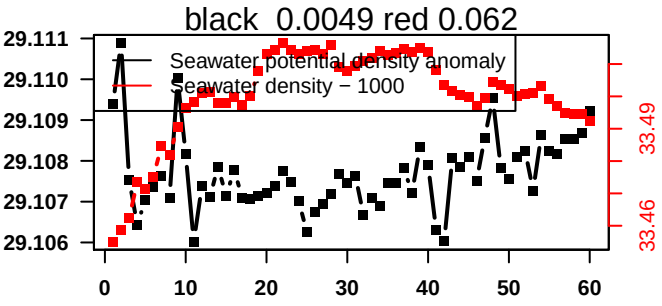

black 0.011 red 0.072
Seawater potential density anomaly
Seawater density − 1000
29.116
29.114
29.112
29.110
29.108
29.106
33.44
33.41
33.38
0
10
20
30
40
50
60

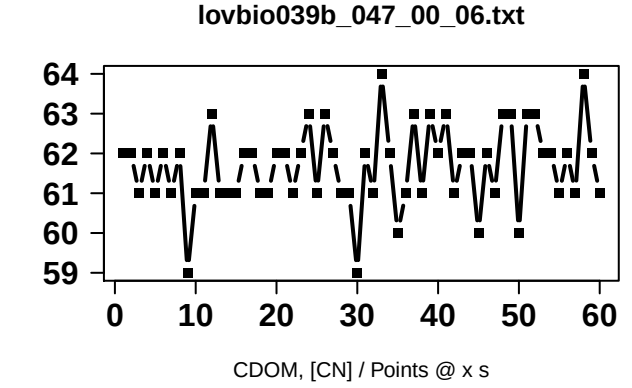

lovbio039b_046_00_06.txt
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

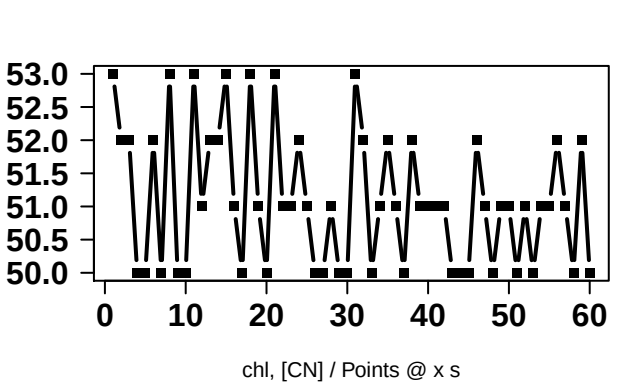

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

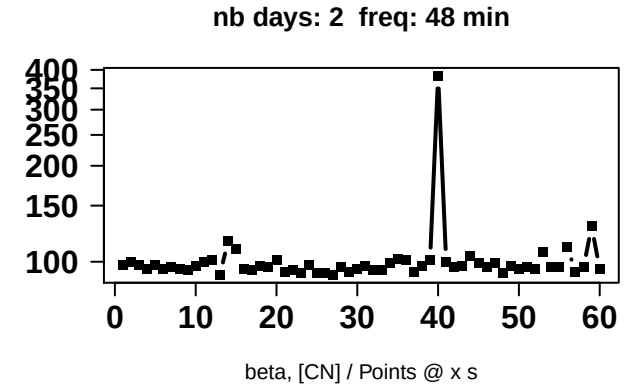

nb days: 2 freq: 47.2 min
2000
1000
500
200
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

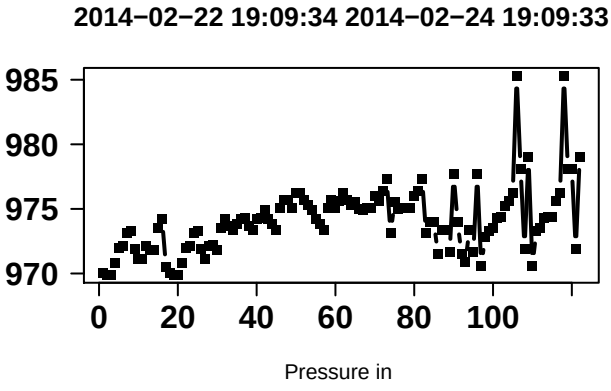

2014−02−19 20:51:08 2014−02−21 20:51:07
1010
1008
1006
1004
1002
1000
998
996
0
20
40
60
80
100
Pressure in

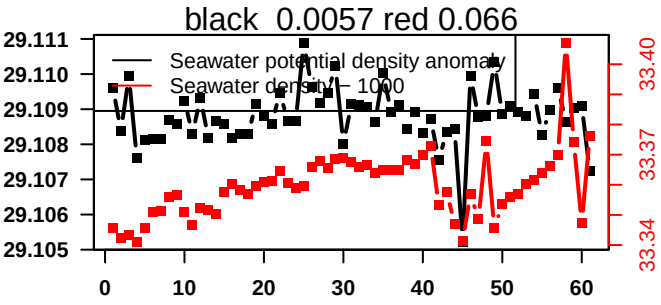

black 0.0049 red 0.062
Seawater potential density anomaly
Seawater density − 1000
29.111
29.110
29.109
29.108
29.107
29.106
33.49
33.46
0
10
20
30
40
50
60

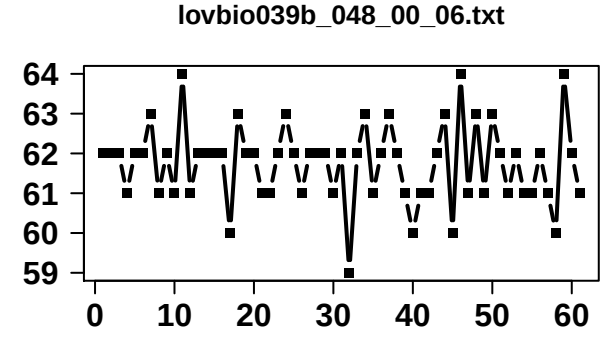

lovbio039b_047_00_06.txt
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

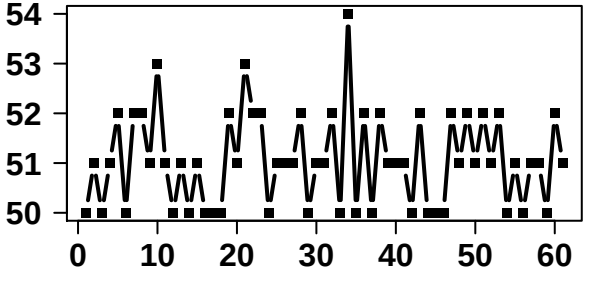

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

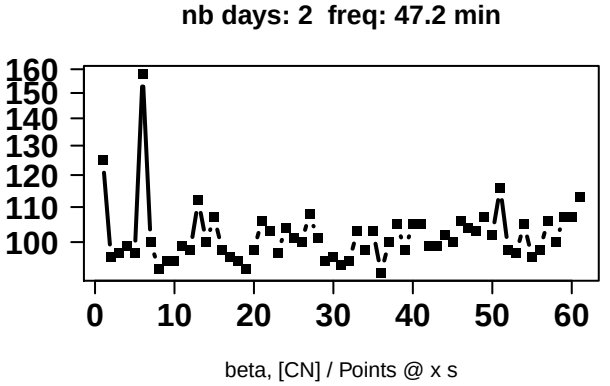

nb days: 2 freq: 48 min
400
350
300
250
200
150
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

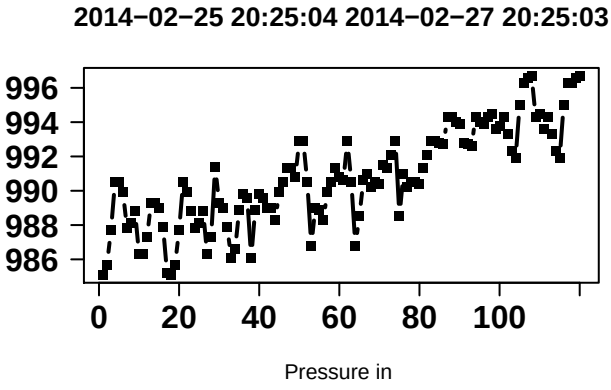

2014−02−22 19:09:34 2014−02−24 19:09:33
985
980
975
970
0
20
40
60
80
100
Pressure in

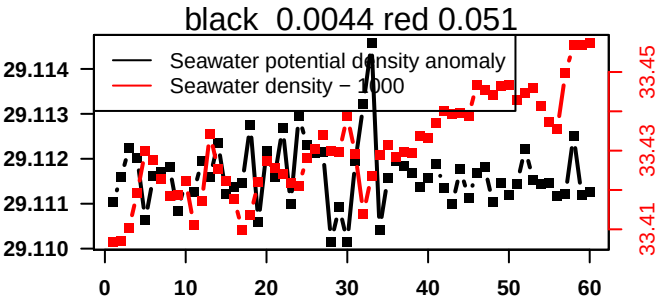

black 0.0057 red 0.066
Seawater potential density anomaly
Seawater density − 1000
29.111
29.110
29.109
29.108
29.107
29.106
29.105
33.40
33.37
33.34
0
10
20
30
40
50
60

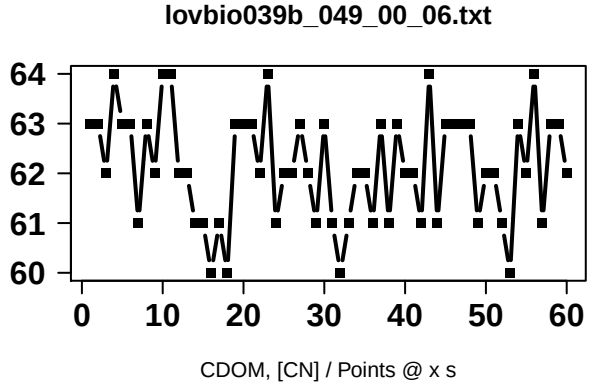

lovbio039b_048_00_06.txt
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

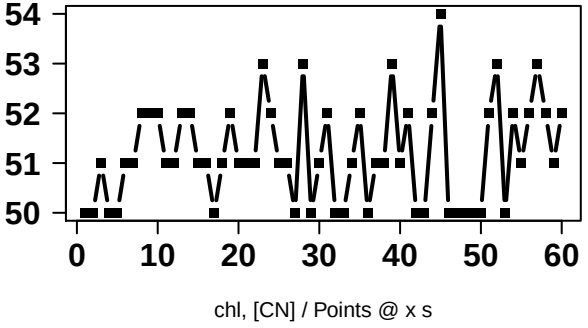

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

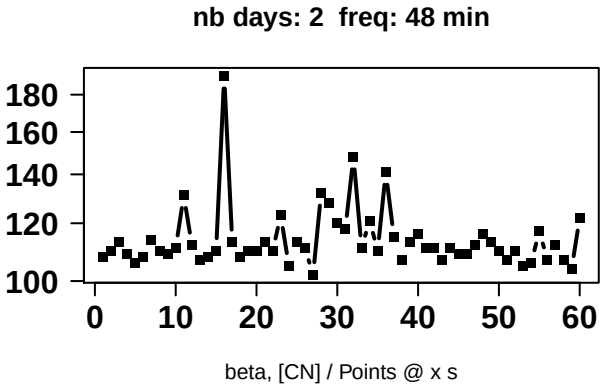

nb days: 2 freq: 47.2 min
160
150
140
130
120
110
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

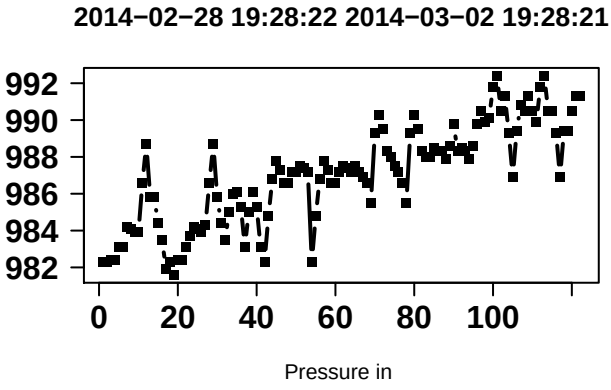

2014−02−25 20:25:04 2014−02−27 20:25:03
996
994
992
990
988
986
0
20
40
60
80
100
Pressure in

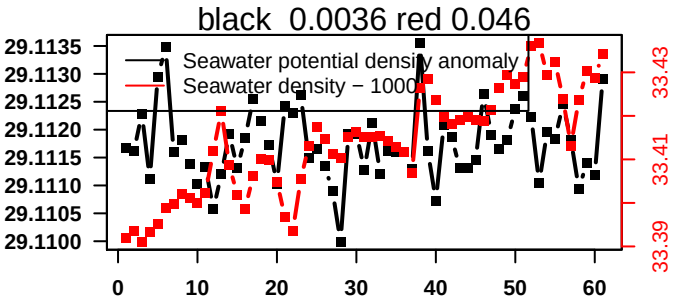

black 0.0044 red 0.051
Seawater potential density anomaly
Seawater density − 1000
29.114
29.113
29.112
29.111
29.110
33.45
33.43
33.41
0
10
20
30
40
50
60

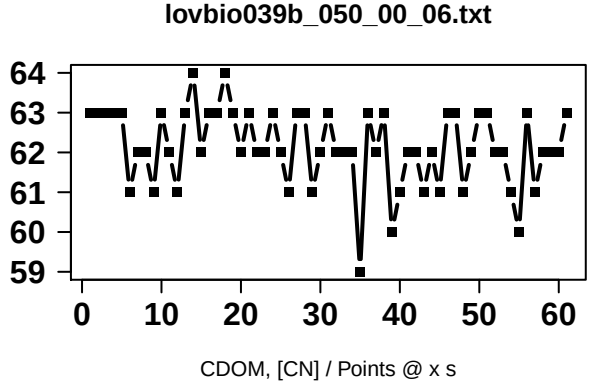

lovbio039b_049_00_06.txt
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

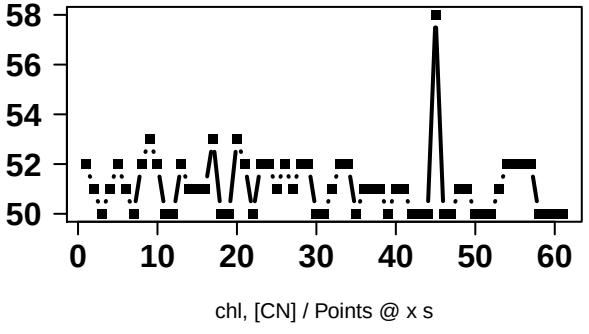

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

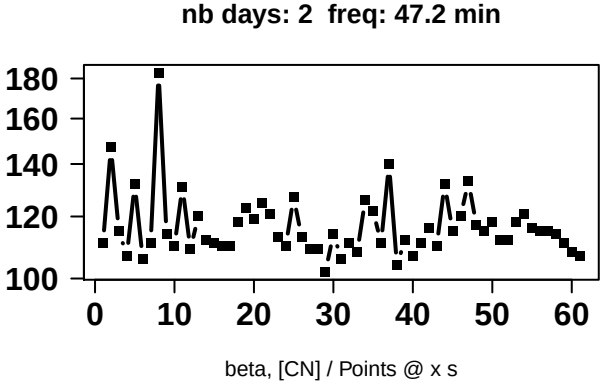

nb days: 2 freq: 48 min
180
160
140
120
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

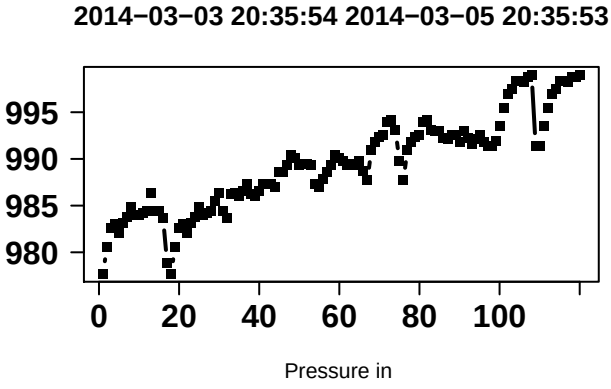

2014−02−28 19:28:22 2014−03−02 19:28:21
992
990
988
986
984
982
0
20
40
60
80
100
Pressure in

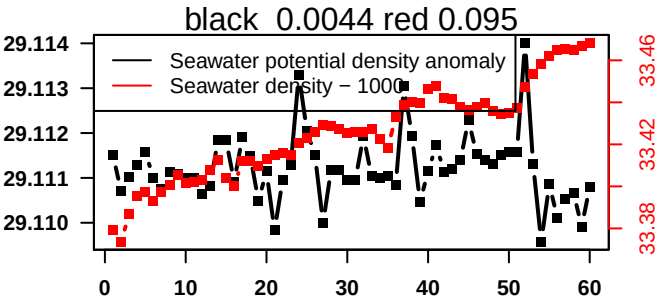

black 0.0036 red 0.046
Seawater potential density anomaly /
Seawater density − 1000
29.1135
29.1130
29.1125
29.1120
29.1115
29.1110
29.1105
29.1100
33.43
33.41
33.39
0
10
20
30
40
50
60

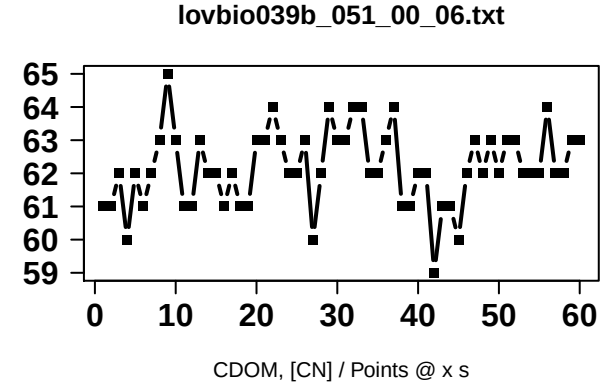

lovbio039b_050_00_06.txt
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

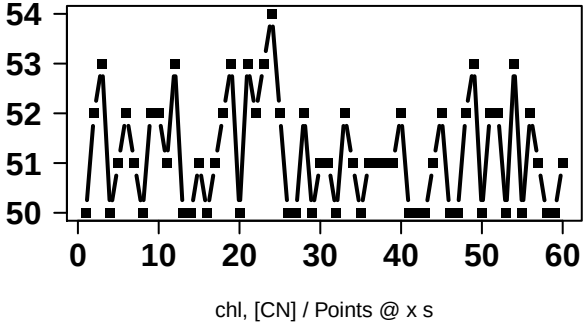

58
56
54
52
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

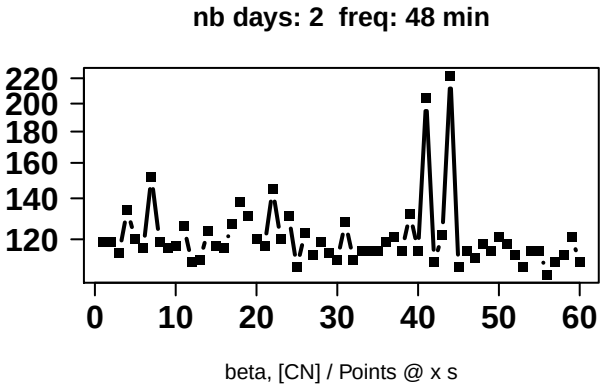

nb days: 2 freq: 47.2 min
180
160
140
120
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

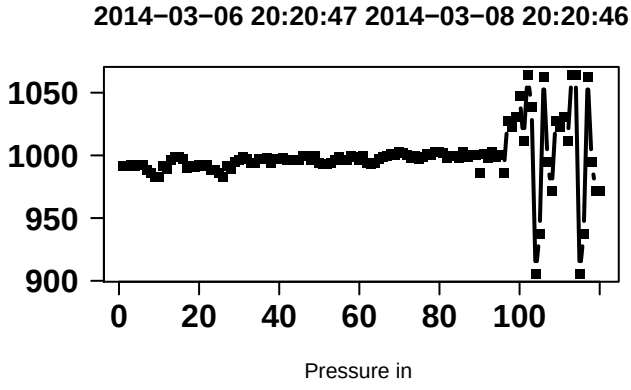

2014−03−03 20:35:54 2014−03−05 20:35:53
995
990
985
980
0
20
40
60
80
100
Pressure in

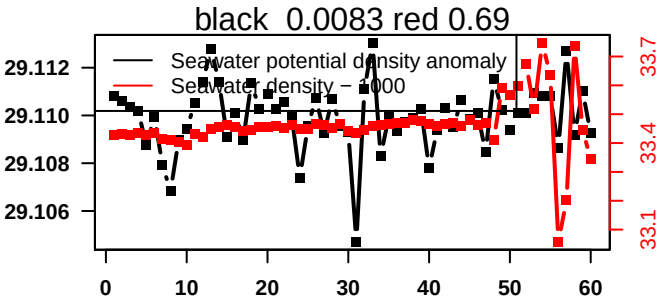

black 0.0044 red 0.095
Seawater potential density anomaly
Seawater density − 1000
29.114
29.113
29.112
29.111
29.110
33.46
33.42
33.38
0
10
20
30
40
50
60

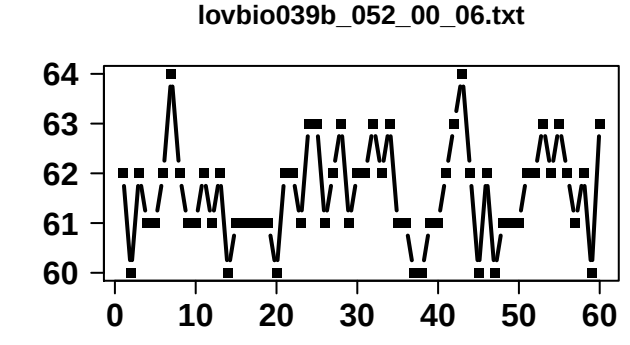

lovbio039b_051_00_06.txt
65
64
63
62
61
60
59
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

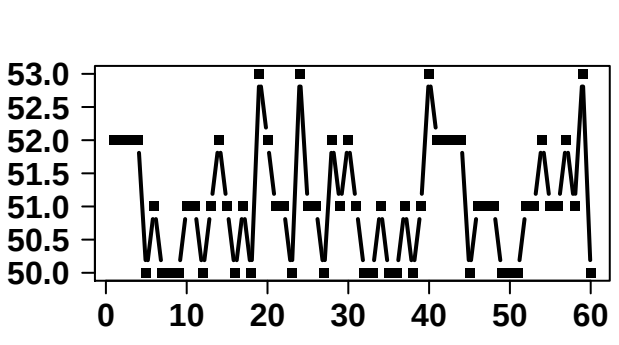

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

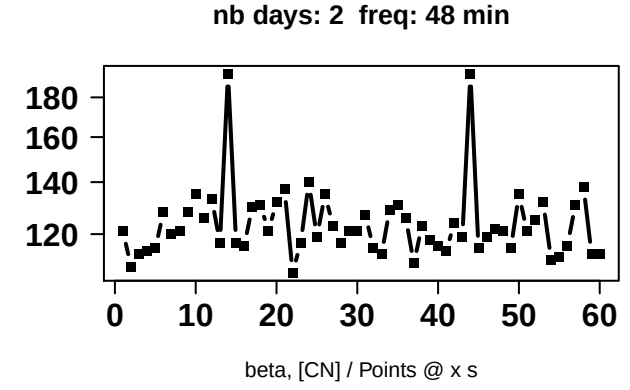

nb days: 2 freq: 48 min
220
200
180
160
140
120
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

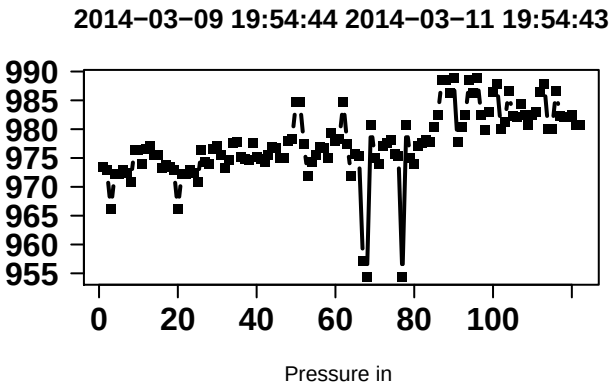

2014−03−06 20:20:47 2014−03−08 20:20:46
1050
1000
950
900
0
20
40
60
80
100
Pressure in

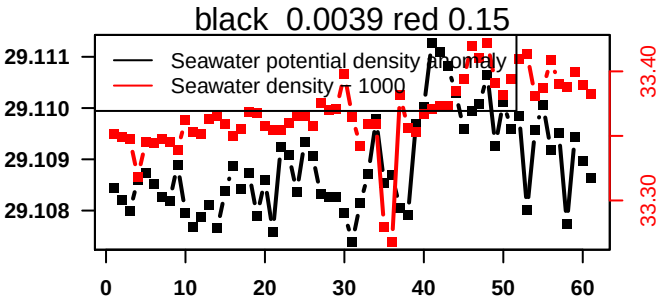

black 0.0083 red 0.69
Seawater potential density anomaly
Seawater density − 1000
29.112
29.110
29.108
29.106
33.7
33.4
33.1
0
10
20
30
40
50
60

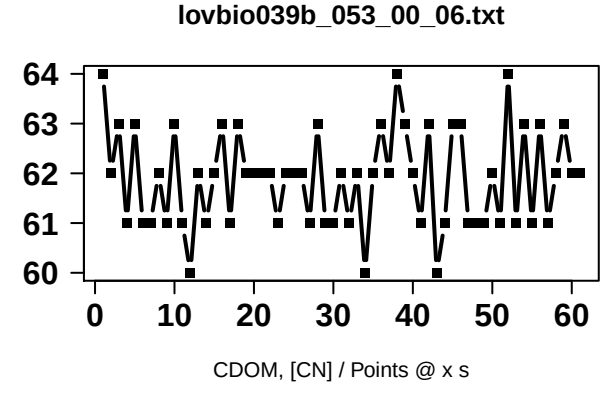

lovbio039b_052_00_06.txt
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

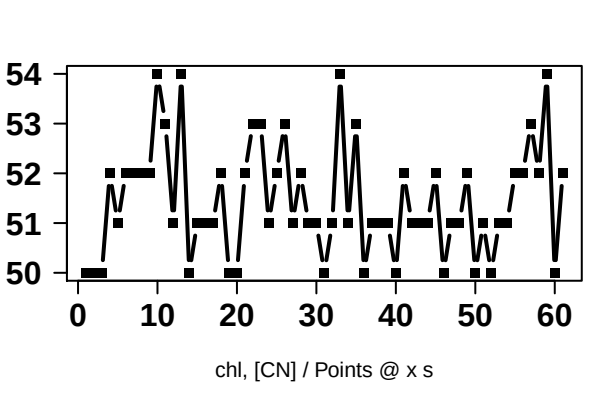

53.0
52.5
52.0
51.5
51.0
50.5
50.0
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

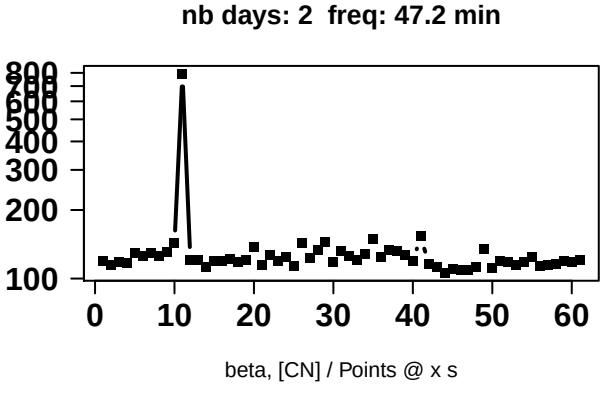

nb days: 2 freq: 48 min
180
160
140
120
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

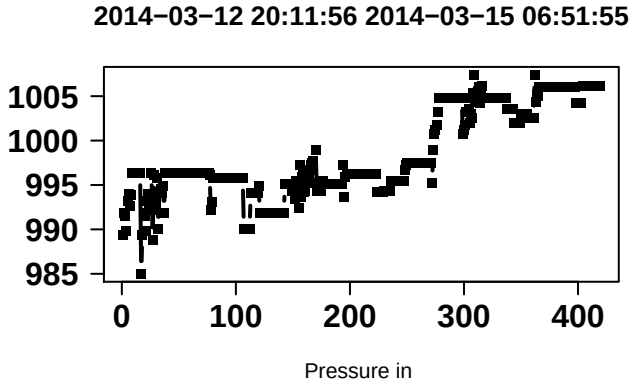

2014−03−09 19:54:44 2014−03−11 19:54:43
990
985
980
975
970
965
960
955
0
20
40
60
80
100
Pressure in

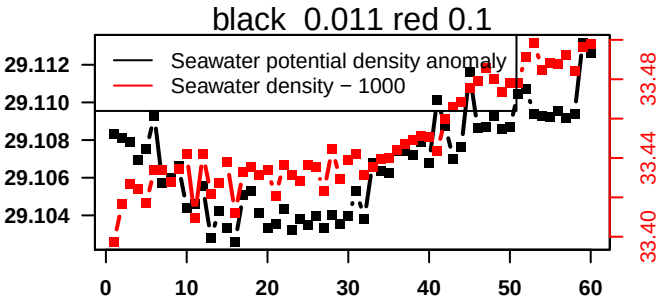

black 0.0039 red 0.15
Seawater potential density anomaly
Seawater density − 1000
29.111
29.110
29.109
29.108
33.40
33.30
0
10
20
30
40
50
60

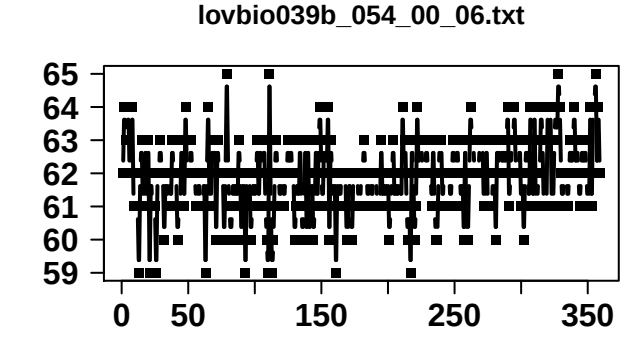

lovbio039b_053_00_06.txt
64
63
62
61
60
0
10
20
30
40
50
60
CDOM, [CN] / Points @ x s

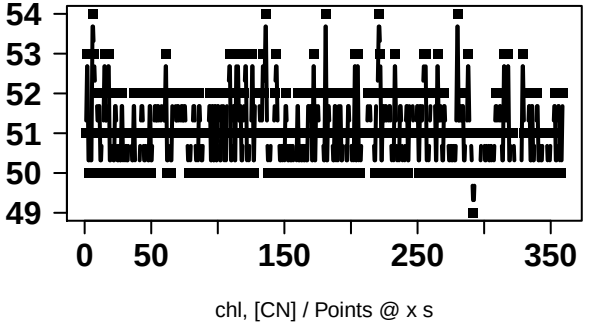

54
53
52
51
50
0
10
20
30
40
50
60
chl, [CN] / Points @ x s

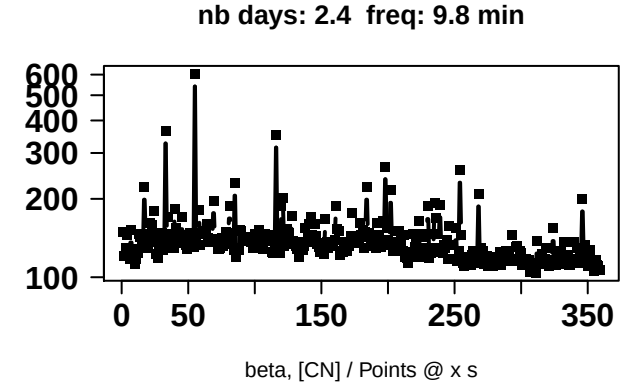

nb days: 2 freq: 47.2 min
800
700
600
500
400
300
200
100
0
10
20
30
40
50
60
beta, [CN] / Points @ x s

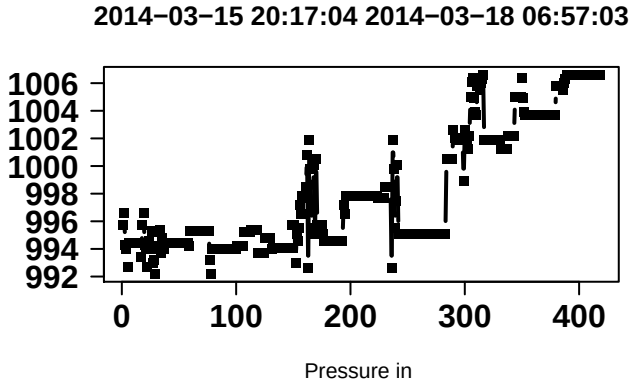

2014−03−12 20:11:56 2014−03−15 06:51:55
1005
1000
995
990
985
0
100
200
300
400
Pressure in

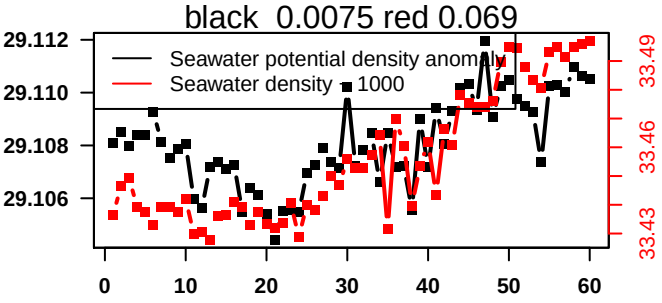

black 0.011 red 0.1
Seawater potential density anomaly
Seawater density − 1000
29.112
29.110
29.108
29.106
29.104
33.48
33.44
33.40
0
10
20
30
40
50
60

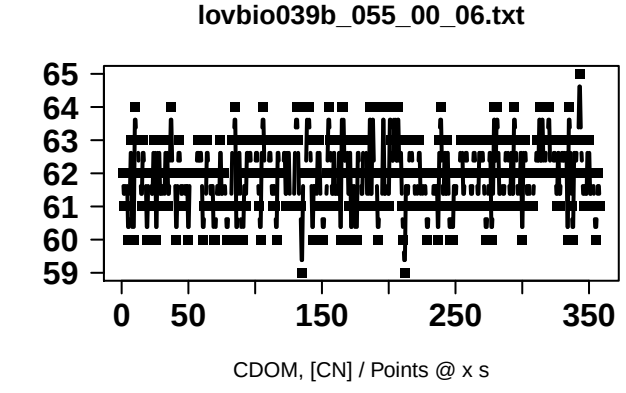

lovbio039b_054_00_06.txt
65
64
63
62
61
60
59
0
50
150
250
350
CDOM, [CN] / Points @ x s

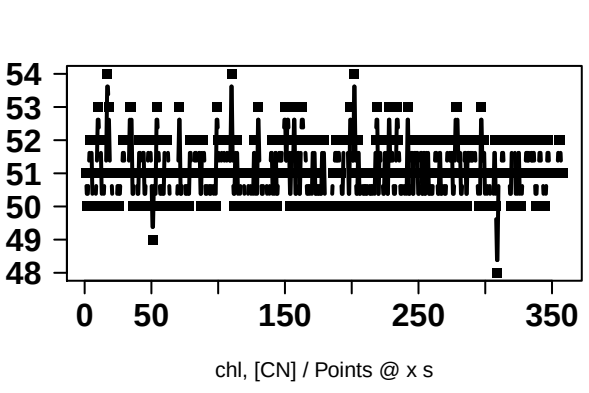

54
53
52
51
50
49
0
50
150
250
350
chl, [CN] / Points @ x s

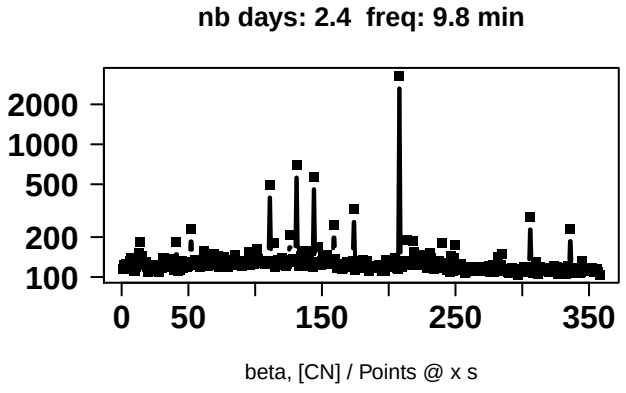

nb days: 2.4 freq: 9.8 min
600
500
400
300
200
100
0
50
150
250
350
beta, [CN] / Points @ x s

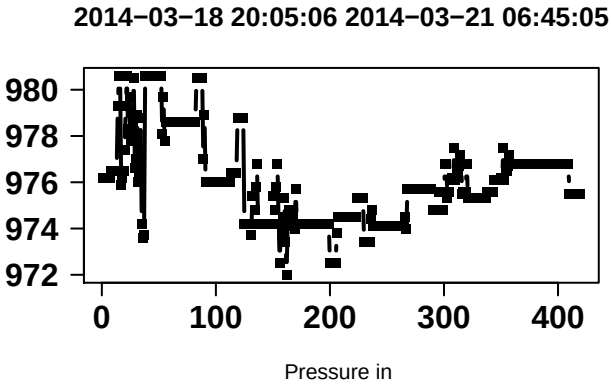

2014−03−15 20:17:04 2014−03−18 06:57:03
1006
1004
1002
1000
998
996
994
992
0
100
200
300
400
Pressure in

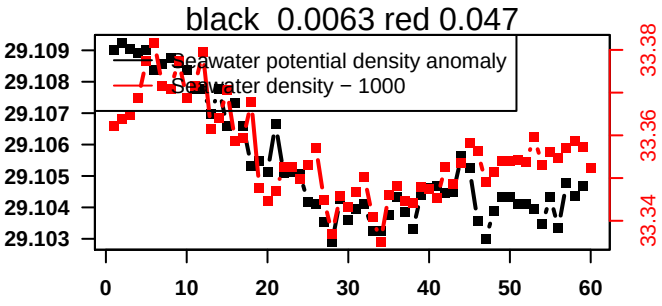

black 0.0075 red 0.069
Seawater potential density anomaly
Seawater density − 1000
29.112
29.110
29.108
29.106
33.49
33.46
33.43
0
10
20
30
40
50
60

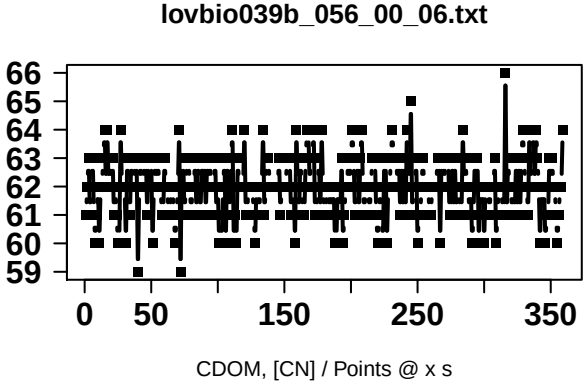

lovbio039b_055_00_06.txt
65
64
63
62
61
60
59
0
50
150
250
350
CDOM, [CN] / Points @ x s

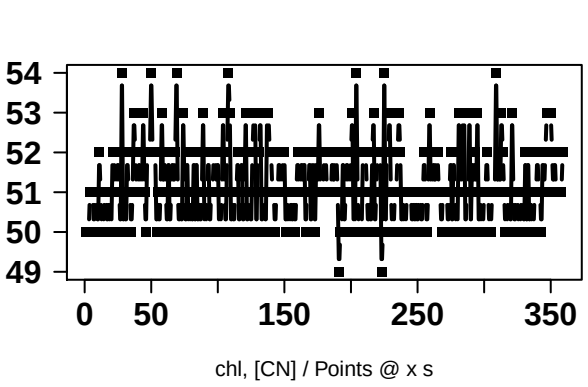

54
53
52
51
50
49
48
0
50
150
250
350
chl, [CN] / Points @ x s

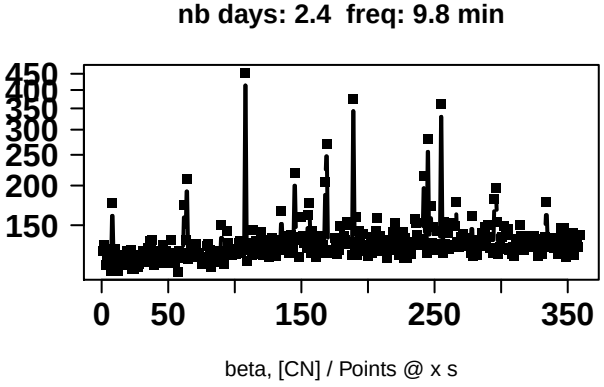

nb days: 2.4 freq: 9.8 min
2000
1000
500
200
100
0
50
150
250
350
beta, [CN] / Points @ x s

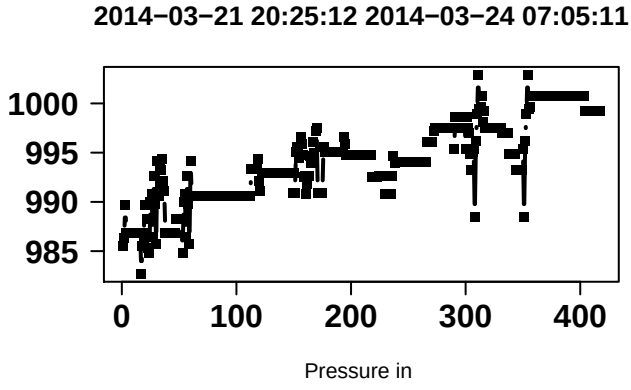

2014−03−18 20:05:06 2014−03−21 06:45:05
980
978
976
974
972
0
100
200
300
400
Pressure in

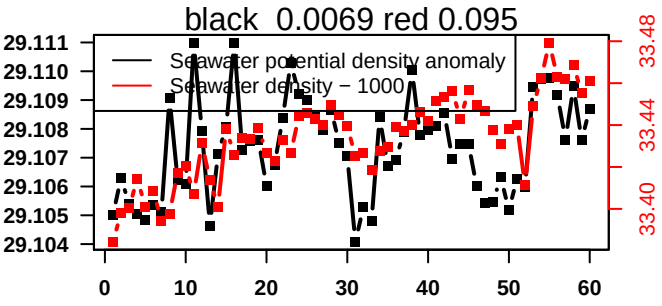

black 0.0063 red 0.047
Seawater potential density anomaly
Seawater density − 1000
29.109
29.108
29.107
29.106
29.105
29.104
29.103
33.38
33.36
33.34
0
10
20
30
40
50
60

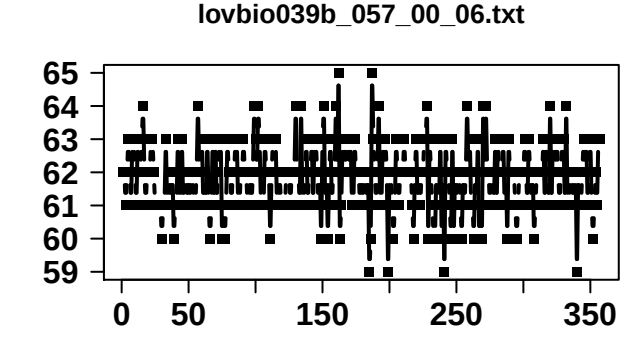

lovbio039b_056_00_06.txt
66
65
64
63
62
61
60
59
0
50
150
250
350
CDOM, [CN] / Points @ x s

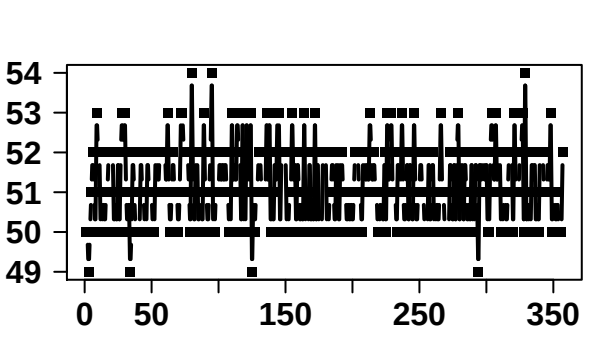

54
53
52
51
50
49
0
50
150
250
350
chl, [CN] / Points @ x s

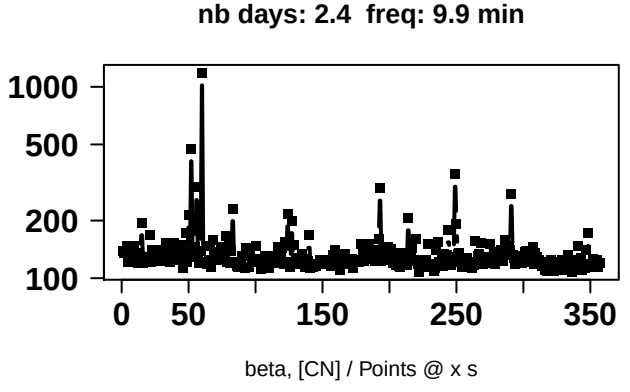

nb days: 2.4 freq: 9.8 min
450
400
350
300
250
200
150
0
50
150
250
350
beta, [CN] / Points @ x s

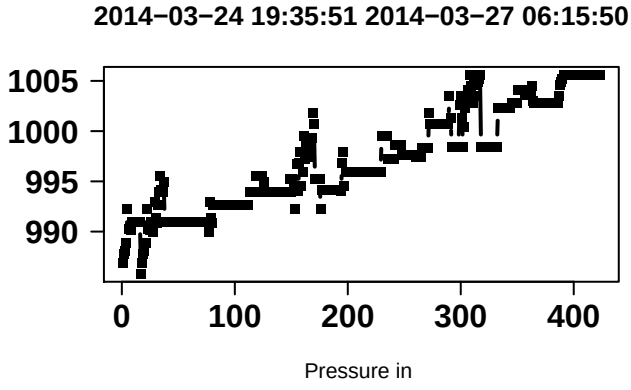

2014−03−21 20:25:12 2014−03−24 07:05:11
1000
995
990
985
0
100
200
300
400
Pressure in

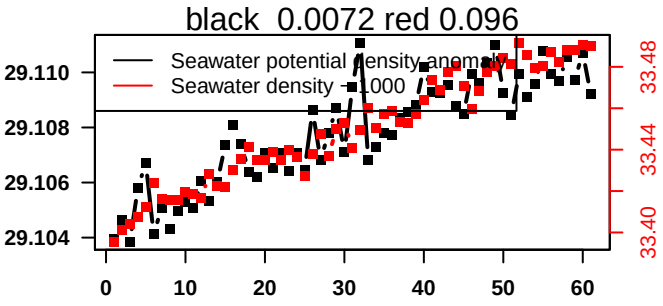

black 0.0069 red 0.095
Seawater potential density anomaly
Seawater density − 1000
29.111
29.110
29.109
29.108
29.107
29.106
29.105
29.104
33.48
33.44
33.40
0
10
20
30
40
50
60

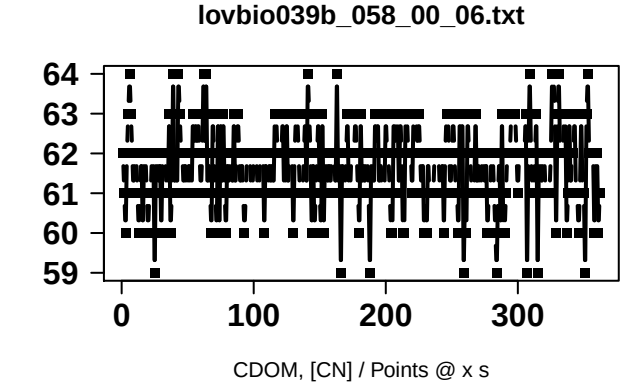

lovbio039b_057_00_06.txt
65
64
63
62
61
60
59
0
50
150
250
350
CDOM, [CN] / Points @ x s

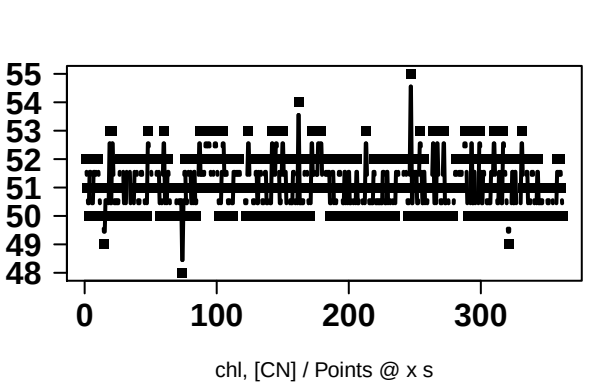

54
53
52
51
50
49
0
50
150
250
350
chl, [CN] / Points @ x s

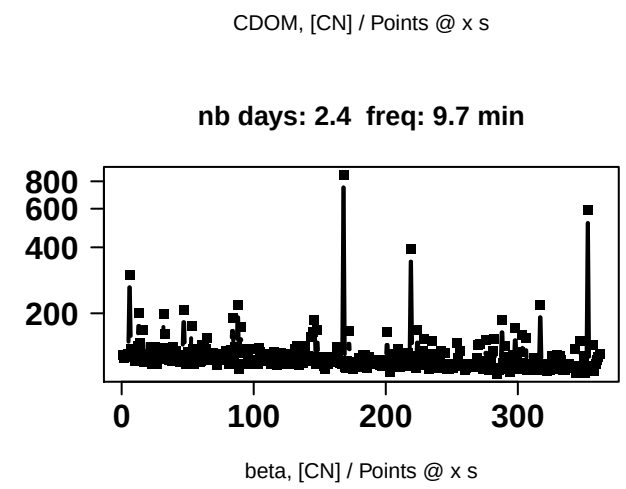

nb days: 2.4 freq: 9.9 min
1000
500
200
100
0
50
150
250
350
beta, [CN] / Points @ x s


2014−03−24 19:35:51 2014−03−27 06:15:50
1005
1000
995
990
0
100
200
300
400
Pressure in


black 0.0072 red 0.096
Seawater potential density anomaly
Seawater density − 1000
29.110
29.108
29.106
29.104
33.48
33.44
33.40
0
10
20
30
40
50
60


lovbio039b_058_00_06.txt
64
63
62
61
60
59
0
100
200
300
CDOM, [CN] / Points @ x s


55
54
53
52
51
50
49
48
0
100
200
300
chl, [CN] / Points @ x s


nb days: 2.4 freq: 9.7 min
800
600
400
200
0
100
200
300
beta, [CN] / Points @ x s