

BOUSSOLE PROJECT

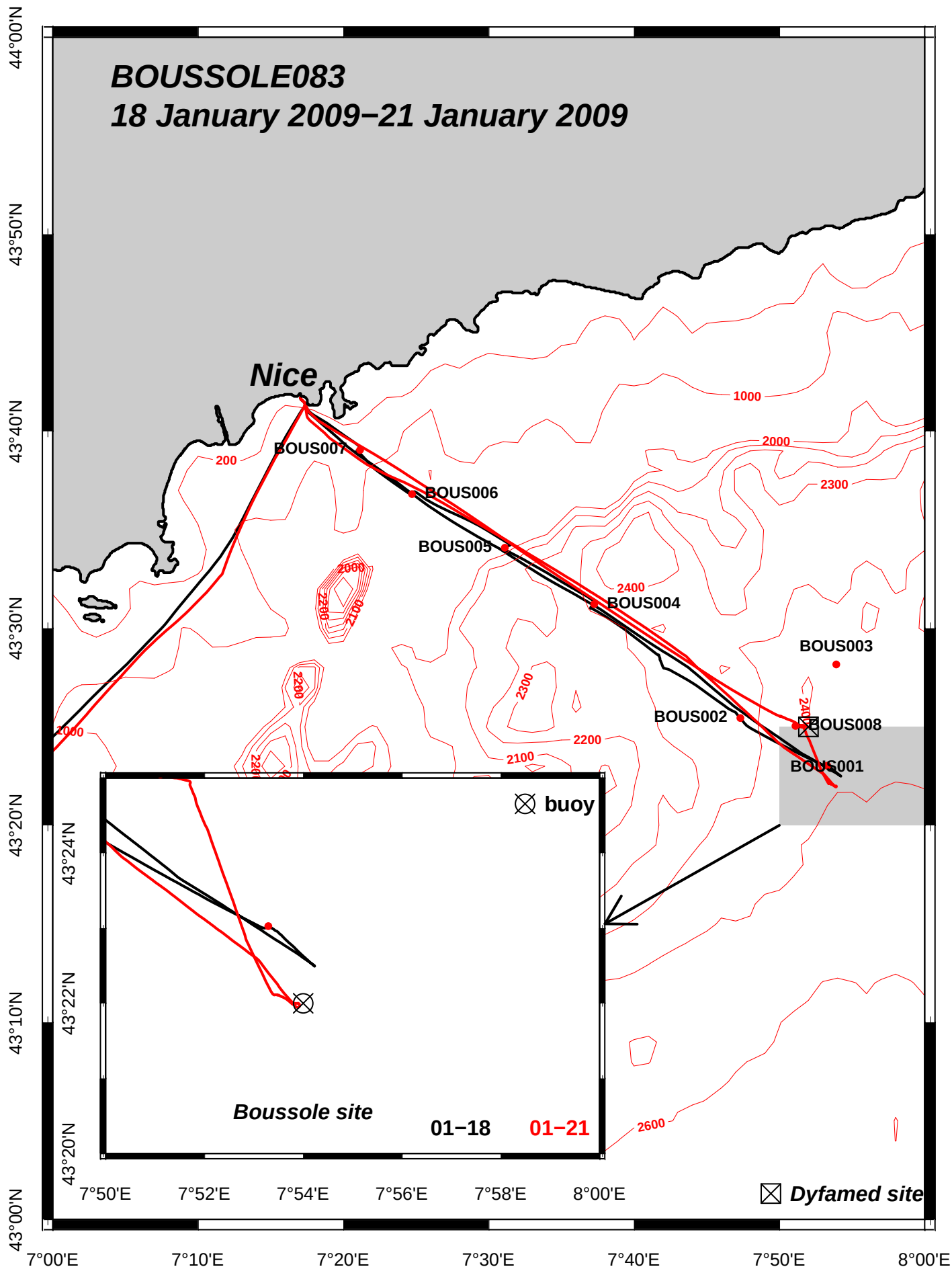
CTD Data catalogue for 2009 Cruise 83 to cruise 93



BOUSSOLE buoy with snow-covered Alps on background during the BOUSSOLE cruise # 93 (December 10th).

Laboratoire d'Océanographie de Villefranche (LOV), 06238 Villefranche sur mer cedex, France





Instrument configuration file:

C:\boussole\2009\200901\ctd\boussole_jan2009.con

Configuration report for SBE 911plus/917plus CTD

Frequency channels suppressed : 0
Voltage words suppressed : 0
Computer interface : RS-232C
Scans to average : 1
NMEA position data added : No
NMEA depth data added : No
NMEA time added : No
Surface PAR voltage added : No
Scan time added : No

1) Frequency 0, **Temperature**

Serial number : **1378**
Calibrated on : 05-Sep-08
A : 3.68121452e-003
B : 6.00610469e-004
C : 1.50043423e-005
D : 2.19005595e-006
F0 : 6491.885
Slope : 1.00000000
Offset : 0.0000

2) Frequency 1, **Conductivity**

Serial number : **2929**
Calibrated on : 22-Aug-2008
A : 9.40493954e-005
B : 1.42244833e+000
C : -1.06100142e+001
D : -8.47331394e-005
M : 3.8
CPcor : -9.57000000e-008
Slope : 1.00000000
Offset : 0.00000

3) Frequency 2, **Pressure, Digiquartz with TC**

Serial number : **53981**
Calibrated on : 11-Jan-95
C1 : -4.499337e+004
C2 : 4.543683e-001
C3 : 1.505020e-002
D1 : 3.936600e-002
D2 : 0.000000e+000
T1 : 3.004660e+001
T2 : -1.897714e-004
T3 : 4.727060e-006
T4 : 1.923520e-009
T5 : 0.000000e+000
Slope : 0.99985000
Offset : 0.11430
AD590M : 1.138000e-002
AD590B : -8.189160e+000

4) Frequency 3, **Temperature, 2**

Serial number : **1539**
Calibrated on : 18-Nov-08
G : 4.83461770e-003
H : 6.68183837e-004
I : 2.36835807e-005
J : 1.73268338e-006
F0 : 1000.000
Slope : 1.00000000
Offset : 0.0000

5) Frequency 4, **Conductivity, 2**

Serial number : **1313**
Calibrated on : 15-Oct-08
G : -4.07158776e+000
H : 4.86983603e-001
I : -1.39526251e-004
J : 3.43602502e-005
CTcor : 3.2500e-006
CPcor : -9.57000000e-008
Slope : 1.00000000
Offset : 0.00000

6) A/D voltage 0, **Oxygen, SBE 43**

Serial number : **0587**
Calibrated on : 04-Sep-08
Equation : Murphy-Larson
Coefficients for Owens-Millard:
Soc : 3.5840e-001
Boc : 0.0000
Offset : -0.4782
Tcor : 0.0012
Pcor : 1.35e-004
Tau : 0.0
Coefficients for Murphy-Larson:
Soc : 3.61700e-001
Offset : -4.81500e-001
A : -1.06250e-003
B : 1.19560e-004
C : -2.77550e-006
E : 3.60000e-002
Tau : 9.80000e-001

7) A/D voltage 1, Free

8) A/D voltage 2, **Fluorometer, Chelsea Aqua 3**

Serial number : **088193**
Calibrated on : 27-oct-97
VB : 0.165000
V1 : 1.933000
Vacetone : 0.250000
Scale factor : 1.000000
Slope : 1.000000
Offset : 0.000000

9) A/D voltage 3, Free

10) A/D voltage 4, **Fluorometer, Wetlab CDOM**

Serial number : **1095P**
Calibrated on : 04-Sep-08
Vblank : 0.045
Scale factor : 62.000

11) A/D voltage 5, **Transmissometer, Chelsea/Seatech/Wetlab CStar**

Serial number : **887DR**
Calibrated on : 22-Sep-08
M : 21.4270
B : -1.2856
Path length : 0.250

12) A/D voltage 6, **Oxygen, SBE 43, 2**

Serial number : **0378**
Calibrated on : 10-Oct-08
Equation : Murphy-Larson
Coefficients for Owens-Millard:
Soc : 0.0000e+000
Boc : 0.0000
Offset : 0.0000
Tcor : 0.0000
Pcor : 0.00e+000
Tau : 0.0
Coefficients for Murphy-Larson:
Soc : 3.00900e-001
Offset : -6.62900e-001
A : -4.59880e-004
B : 1.98170e-004
C : -4.09020e-006
E : 3.60000e-002
Tau : 1.39000e+000

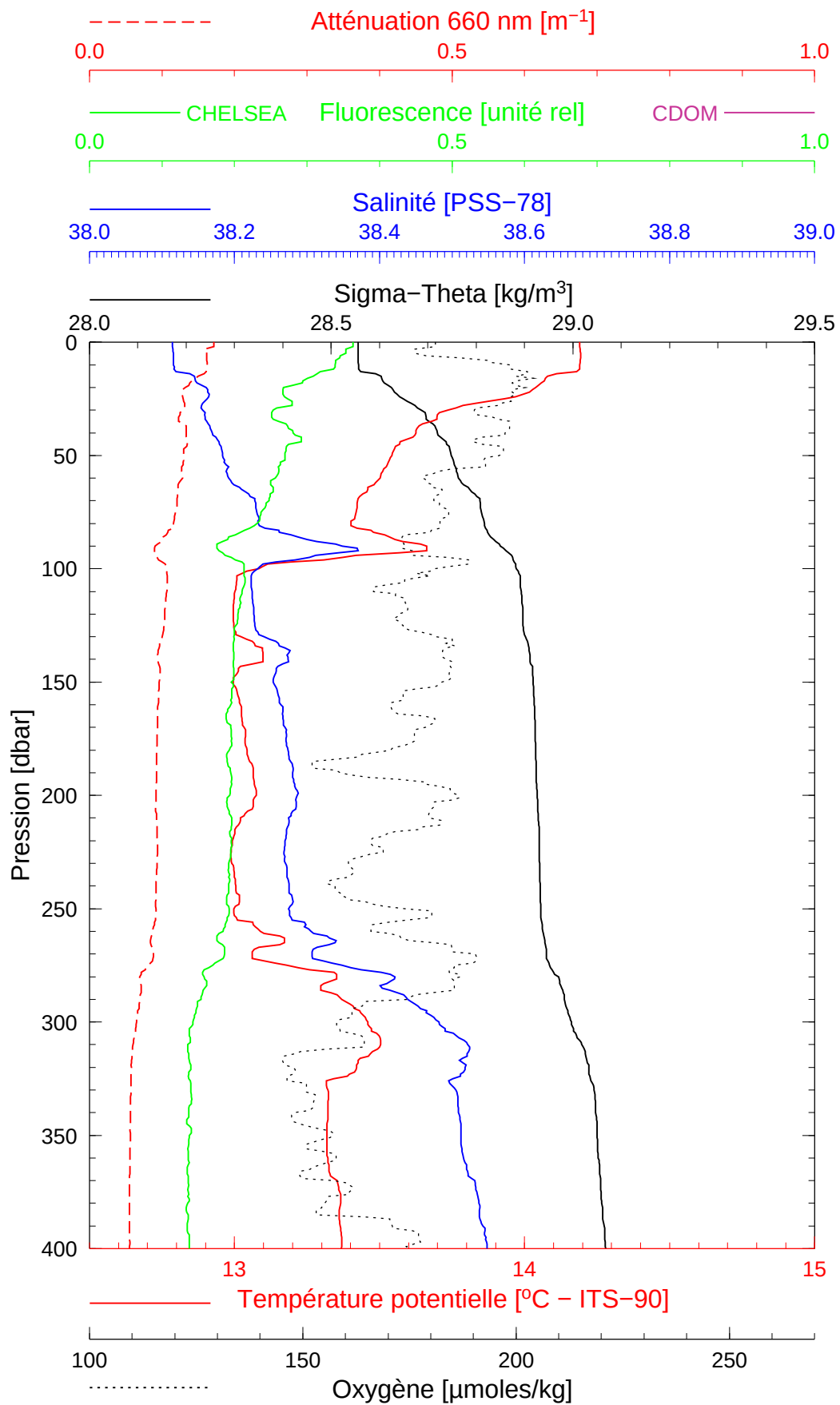
13) A/D voltage 7, Free

BOUSOLE 83

18/01/2009

BOUS090118_01

BOUS001



Date 18/01/2009
Heure déb 09h 48min [TU]

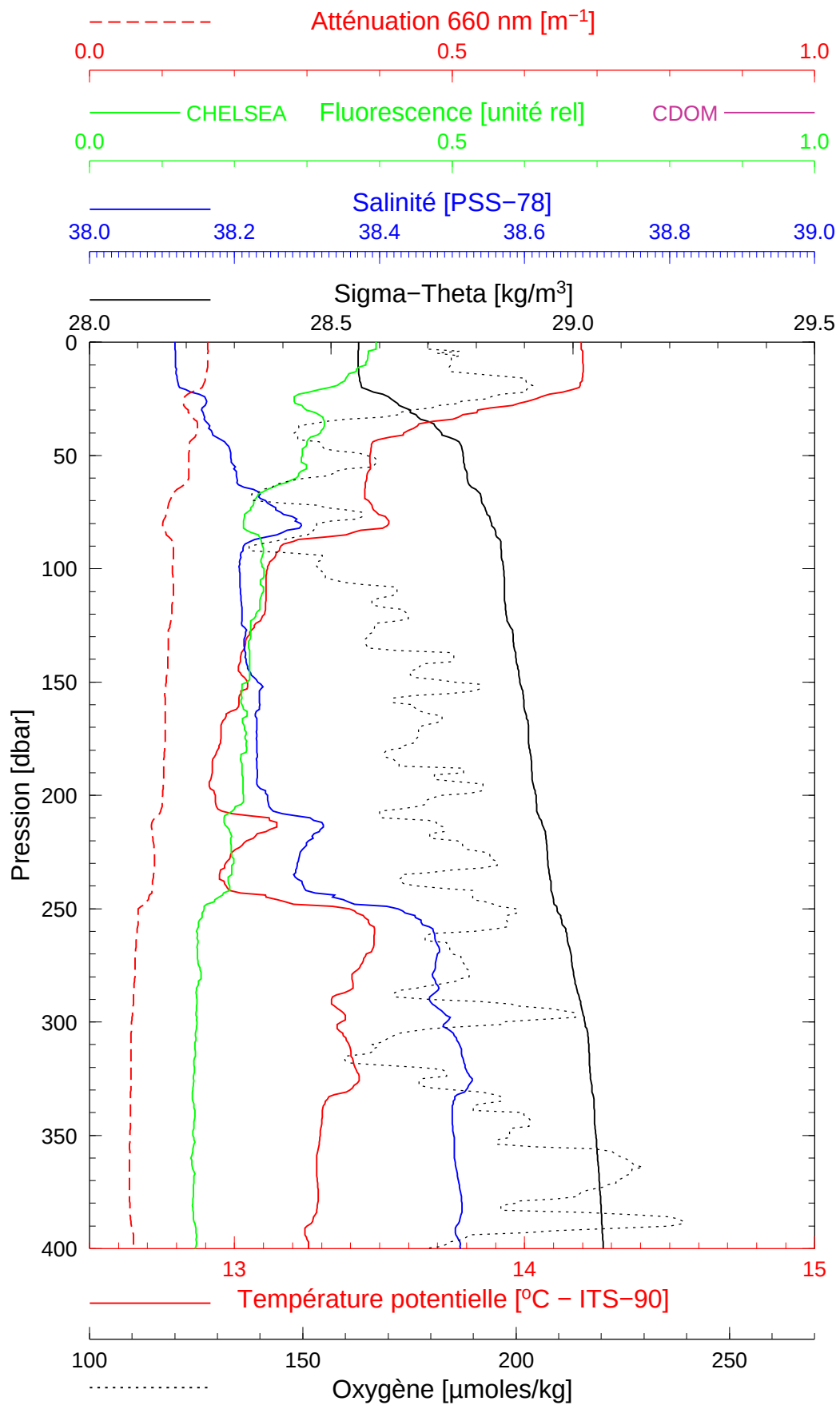
Latitude 43°23.028 N
Longitude 07°53.294 E

BOUSSOLE 83

18/01/2009

BOUS090118_02

BOUS002



Date 18/01/2009
Heure déb 11h 17min [TU]

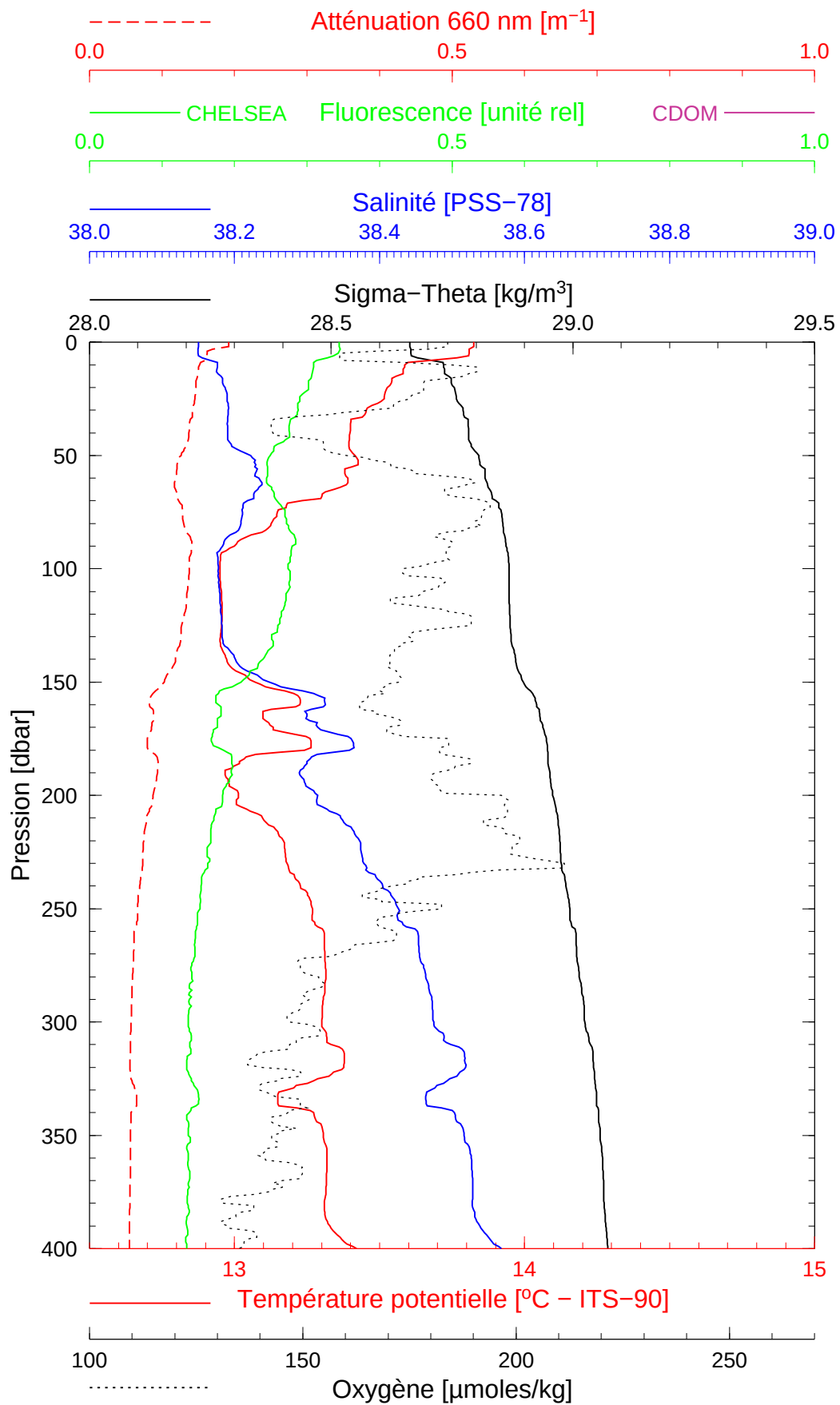
Latitude $43^{\circ}25.446$ N
Longitude $07^{\circ}47.317$ E

BOUSSOLE 83

18/01/2009

BOUS090118_03

BOUS003



Date 18/01/2009
Heure déb 12h 14min [TU]

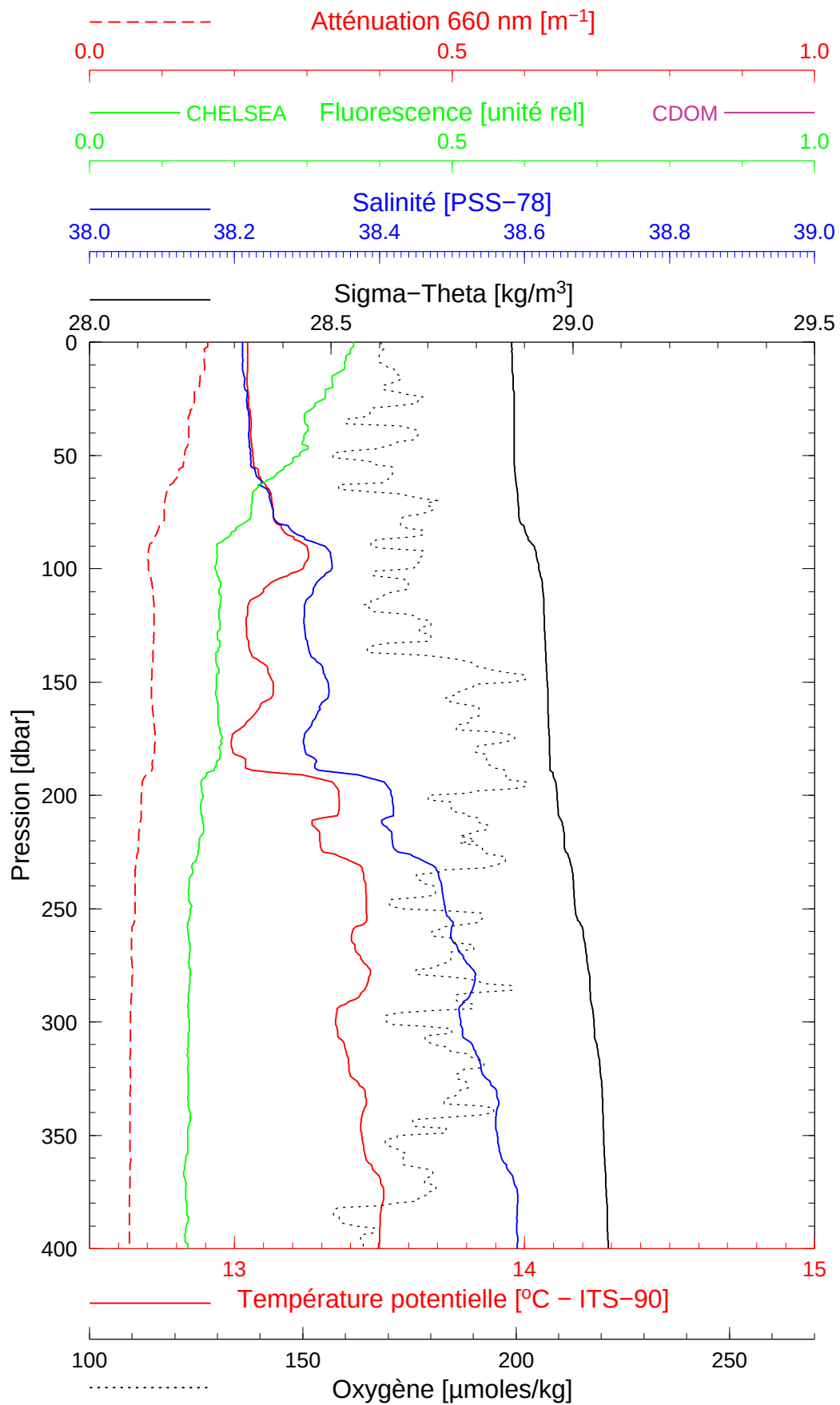
Latitude 43°28.168 N
Longitude 07°41.922 E

BOUSSOLE 83

18/01/2009

BOUS090118_04

BOUS004



Date 18/01/2009
Heure déb 13h 12min [TU]

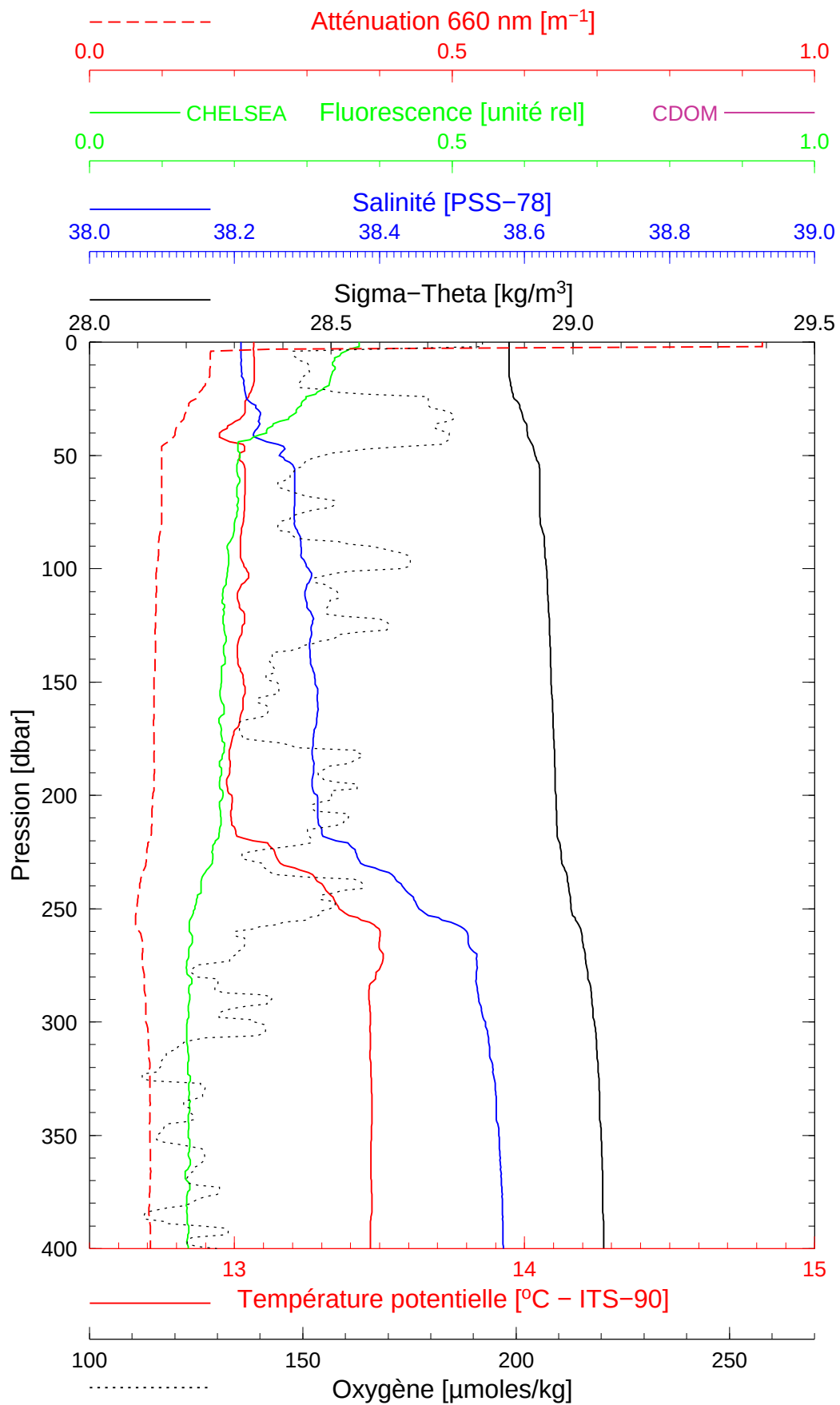
Latitude $43^{\circ}31.228\text{ N}$
Longitude $07^{\circ}37.260\text{ E}$

BOUSOLE 83

18/01/2009

BOUS090118_05

BOUS005



Date 18/01/2009
Heure déb 14h 14min [TU]

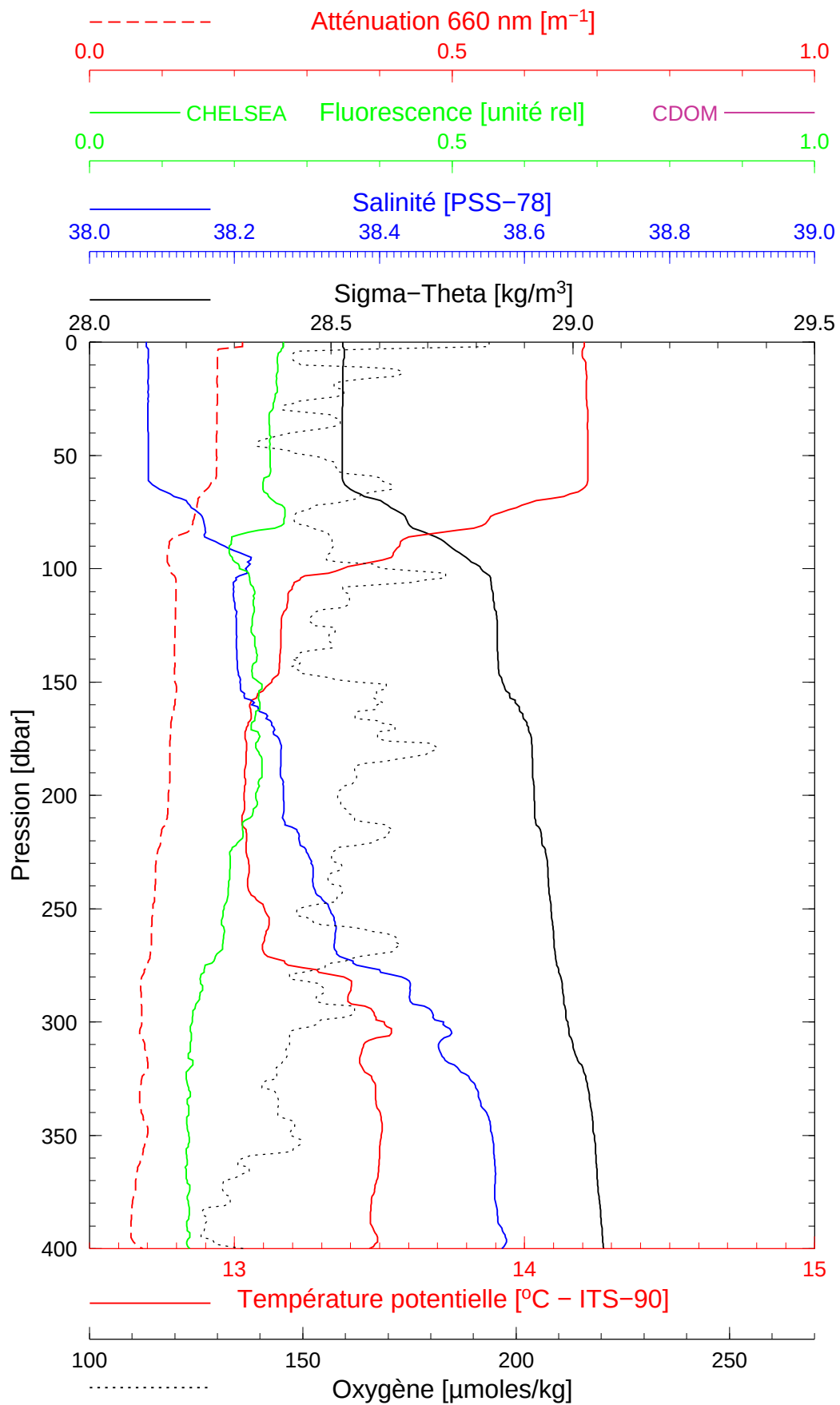
Latitude 43°34.090 N
Longitude 07°31.111 E

BOUSOLE 83

18/01/2009

BOUS090118_06

BOUS006



Date 18/01/2009
Heure déb 15h 18min [TU]

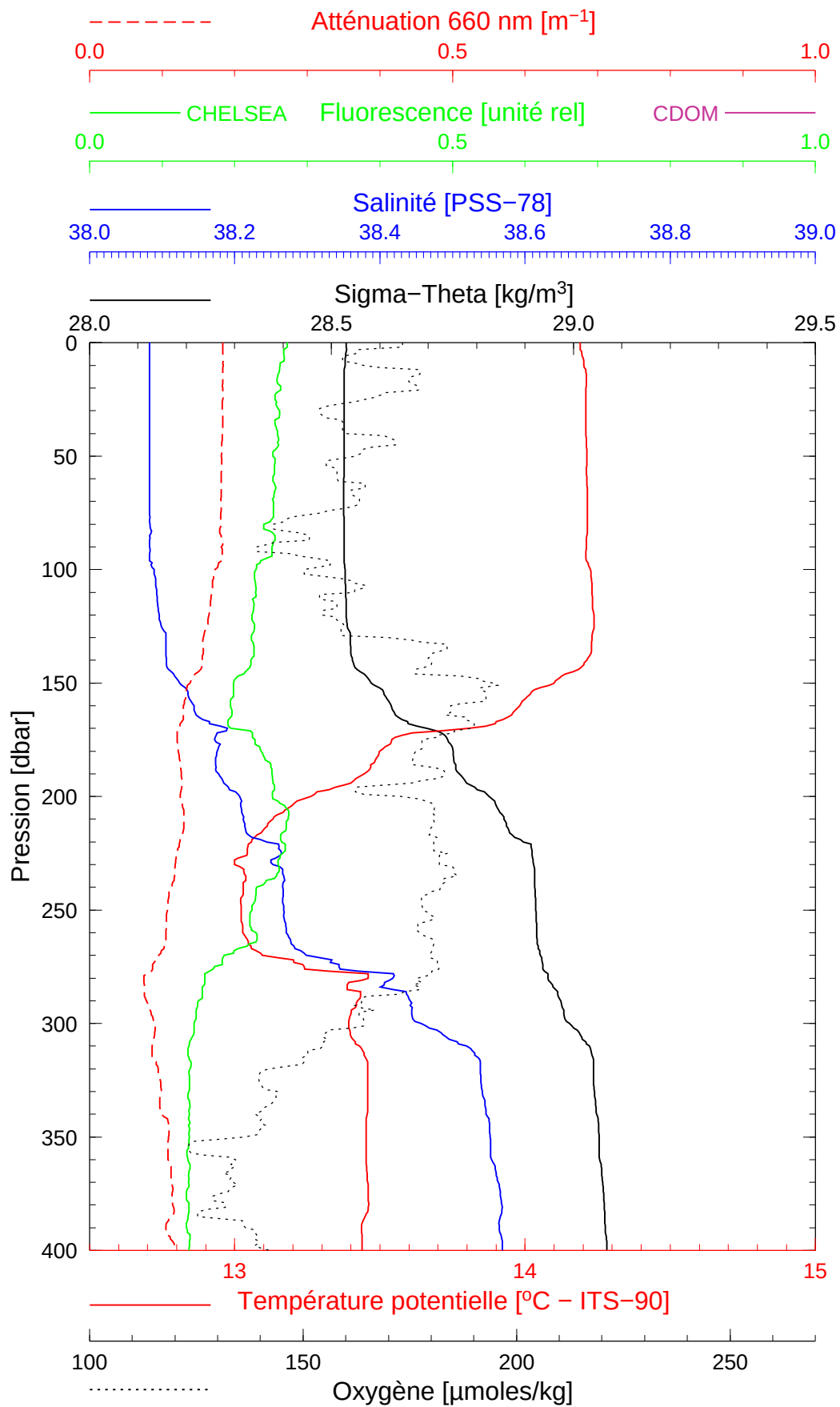
Latitude $43^{\circ}36.812\text{ N}$
Longitude $07^{\circ}24.724\text{ E}$

BOUSSOLE 83

18/01/2009

BOUS090118_07

BOUS007



Date 18/01/2009
Heure déb 16h 05min [TU]

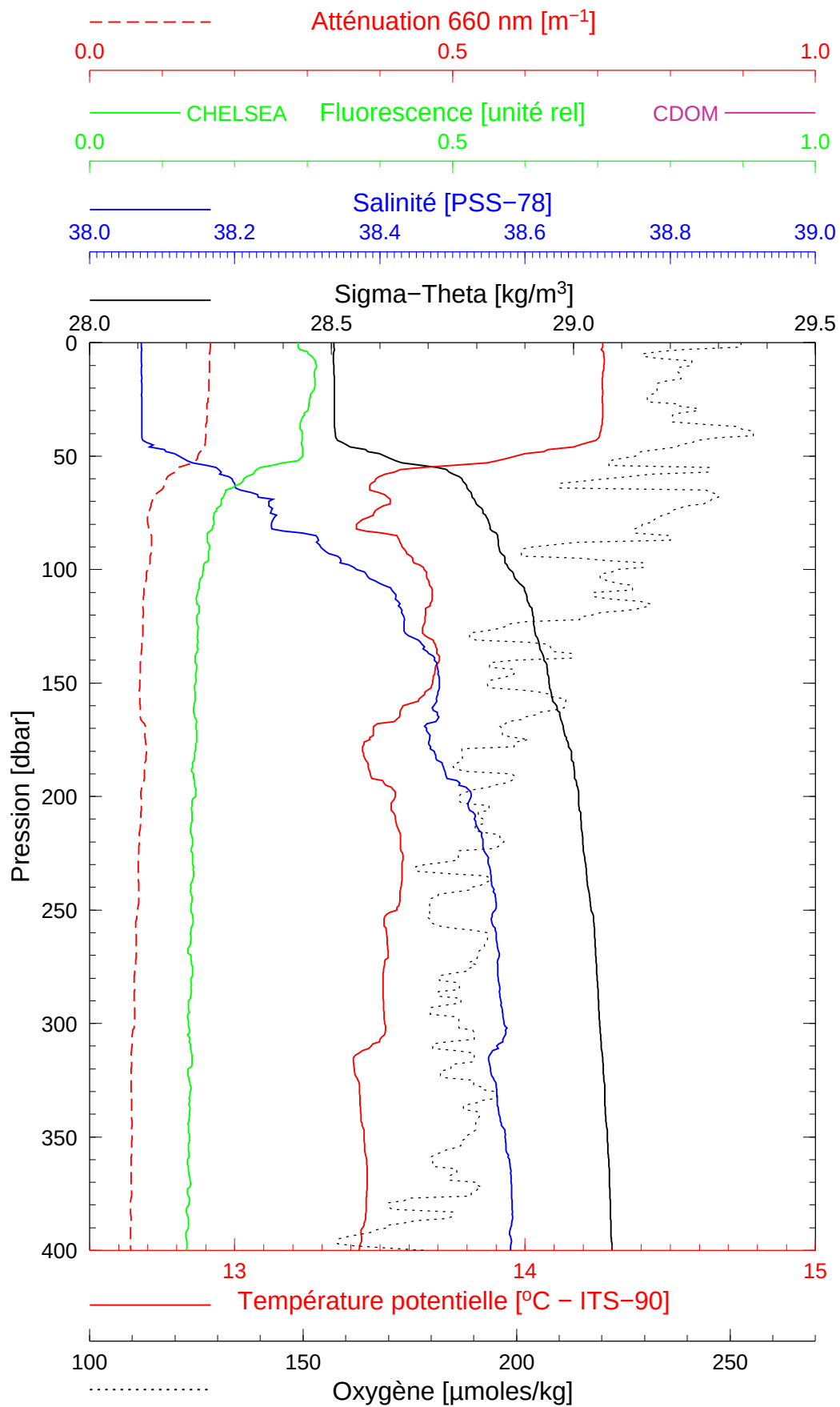
Latitude $43^{\circ}39.053$ N
Longitude $07^{\circ}21.148$ E

BOUSSOLE 83

21/01/2009

BOUS090121_01

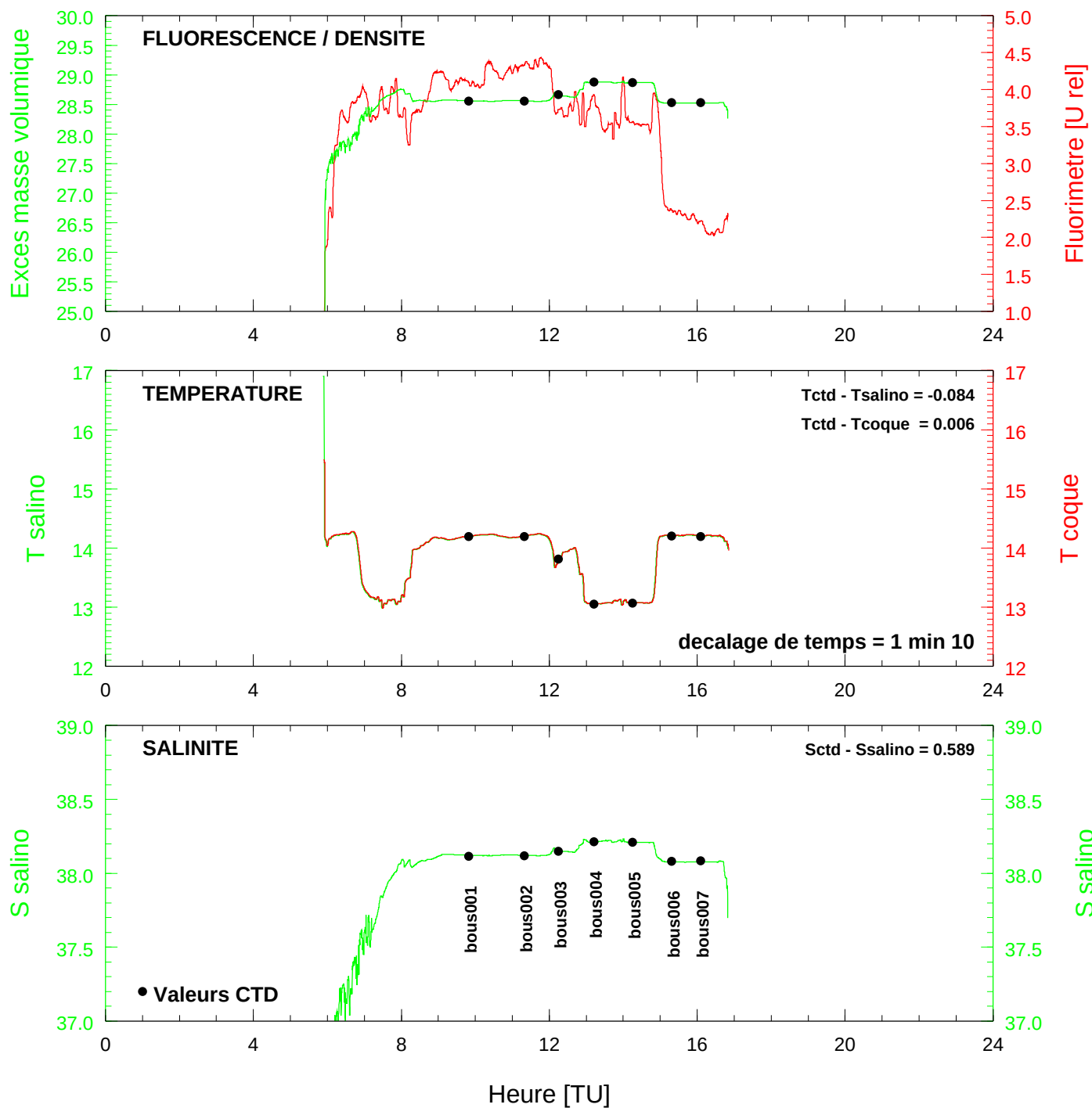
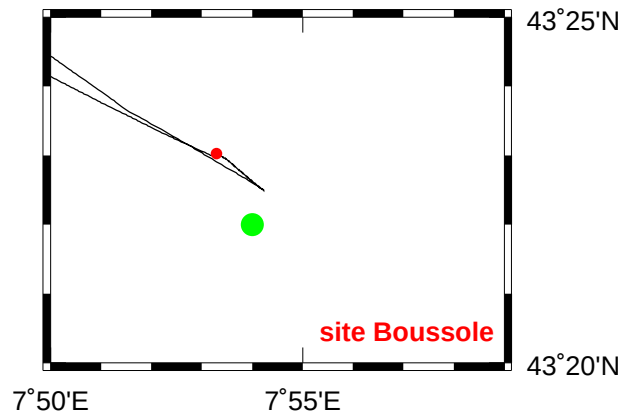
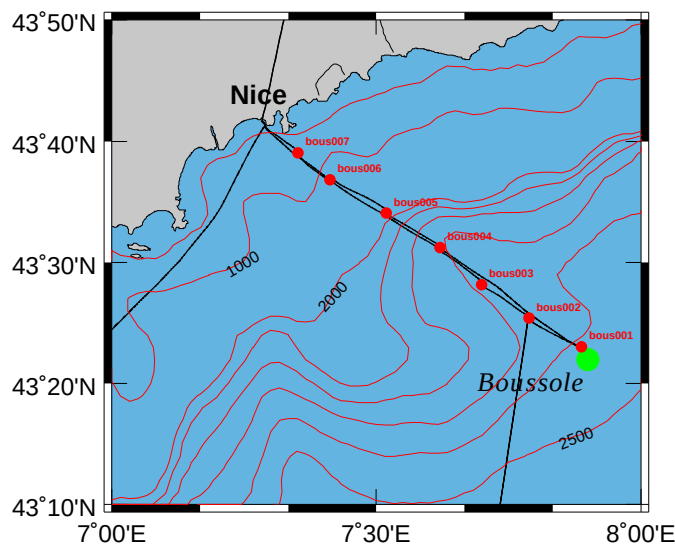
BOUS008



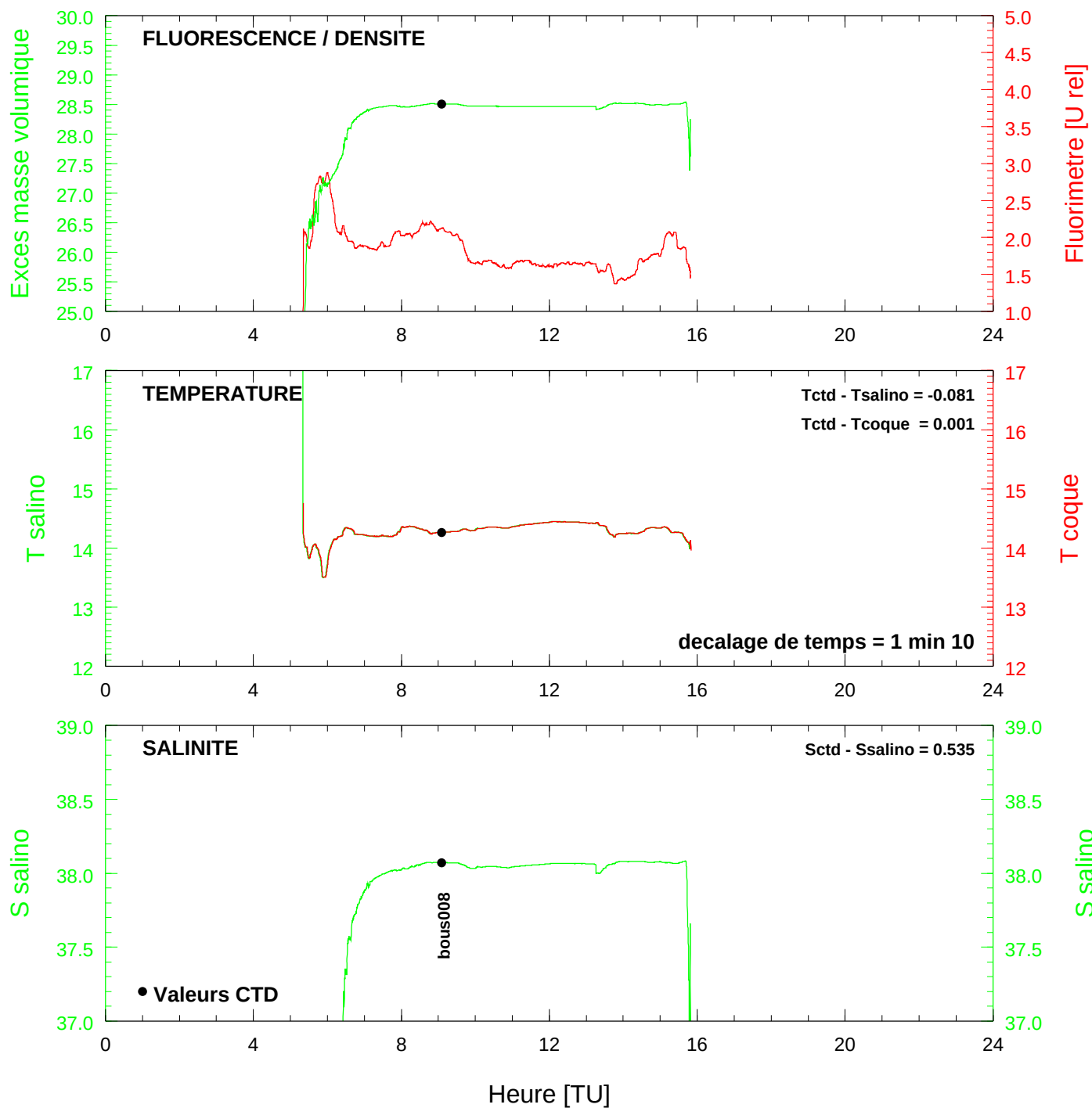
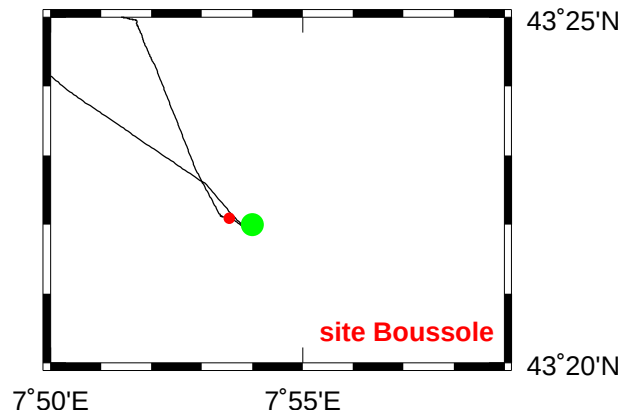
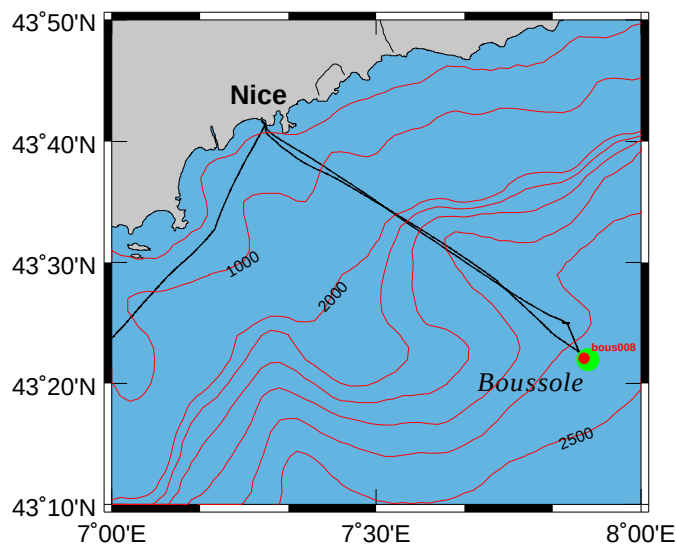
Date 21/01/2009
Heure déb 09h 05min [TU]

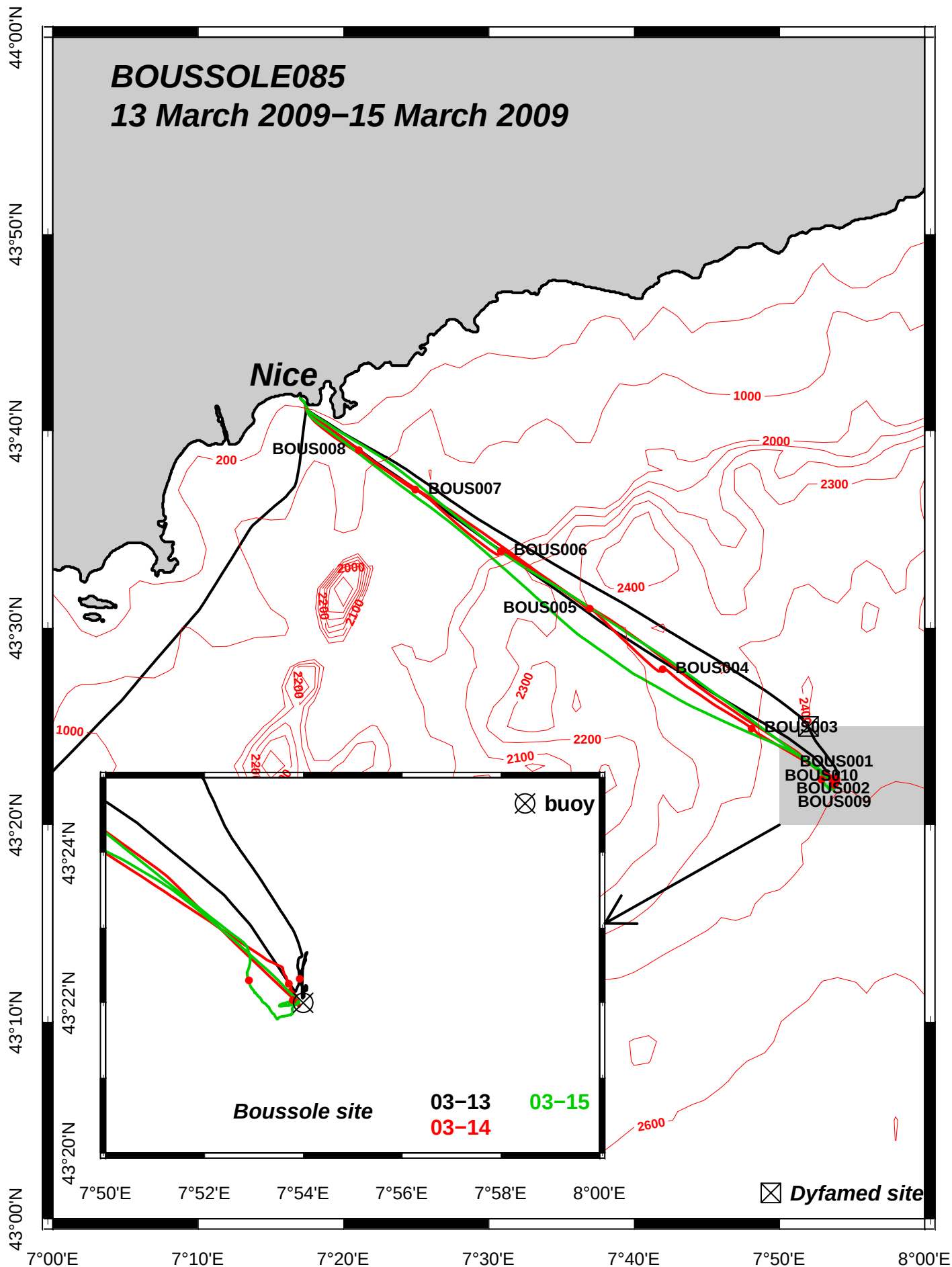
Latitude $43^{\circ}22.097\text{ N}$
Longitude $07^{\circ}53.538\text{ E}$

BOUSSOLE 83 18 janvier 2009



BOUSSOLE 83 21 janvier 2009





Instrument configuration file: **C:\boussole\2009\200903\boussole_mar2009.con**

Configuration report for SBE 911plus/917plus CTD

Frequency channels suppressed : 0
Voltage words suppressed : 0
Computer interface : RS-232C
Scans to average : 1
NMEA position data added : No
NMEA depth data added : No
NMEA time added : No
Surface PAR voltage added : No
Scan time added : No

1) Frequency 0, **Temperature**

Serial number : **1378**
Calibrated on : 05-Sep-08
G : 4.87113984e-003
H : 6.79469483e-004
I : 2.72588409e-005
J : 2.18859819e-006
F0 : 1000.000
Slope : 1.00000000
Offset : 0.0000

2) Frequency 1, **Conductivity**

Serial number : **2929**
Calibrated on : 22-Aug-08
G : -1.06100220e+001
H : 1.42248535e+000
I : 3.69106162e-005
J : 5.90824323e-005
CTcor : 3.2500e-006
CPcor : -9.57000000e-008
Slope : 1.00000000
Offset : 0.00000

3) Frequency 2, **Pressure, Digiquartz with TC**

Serial number : **53981**
Calibrated on : 11-Jan-95
C1 : -4.499337e+004
C2 : 4.543683e-001
C3 : 1.505020e-002
D1 : 3.936600e-002
D2 : 0.000000e+000
T1 : 3.004660e+001
T2 : -1.897714e-004
T3 : 4.727060e-006
T4 : 1.923520e-009
T5 : 0.000000e+000
Slope : 0.99985000
Offset : 0.11430
AD590M : 1.138000e-002
AD590B : -8.189160e+000

4) Frequency 3, Free

5) Frequency 4, Free

6) A/D voltage 0, **Oxygen, SBE 43**

Serial number : **0378**
Calibrated on : 10-Oct-08p
Equation : Murphy-Larson
Coefficients for Owens-Millard:
Soc : 0.0000e+000
Boc : 0.0000
Offset : 0.0000
Tcor : 0.0000
Pcor : 0.00e+000
Tau : 0.0
Coefficients for Murphy-Larson:
Soc : 3.00900e-001
Offset : -6.62900e-001
A : -4.59880e-004
B : 1.98170e-004
C : -4.09020e-006
E : 3.60000e-002
Tau : 1.39000e+000

7) A/D voltage 1, Free

8) A/D voltage 2, **Fluorometer, Chelsea Aqua 3**

Serial number : **088193**
Calibrated on : 27-oct-97
VB : 0.165000
V1 : 1.933000
Vacetone : 0.250000
Scale factor : 1.000000
Slope : 1.000000
Offset : 0.000000

9) A/D voltage 3, Free

10) A/D voltage 4, **Fluorometer, Wetlab CDOM**

Serial number : **1095P**
Calibrated on : 04-Sep-08
Vblank : 0.045
Scale factor : 62.000

11) A/D voltage 5, **Transmissometer, Chelsea/Seatech/Wetlab CStar**

Serial number : **887DR**
Calibrated on : 22-Sep-08
M : 21.4270
B : -1.2856
Path length : 0.250

12) A/D voltage 6, Free

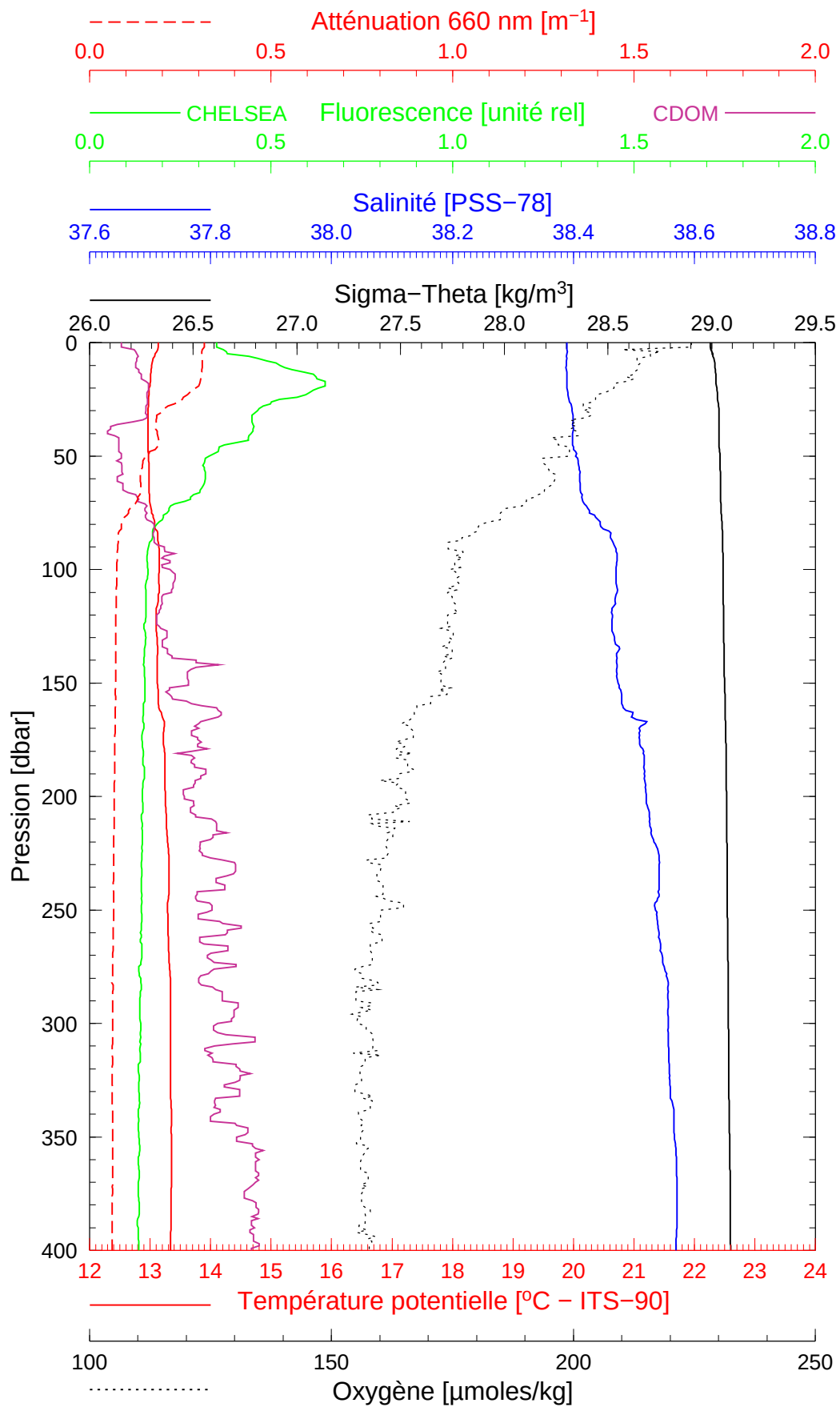
13) A/D voltage 7, Free

BOUSSOLE 85

13/03/2009

BOUS090313_01

BOUS001



Date 13/03/2009
Heure déb 12h 39min [TU]

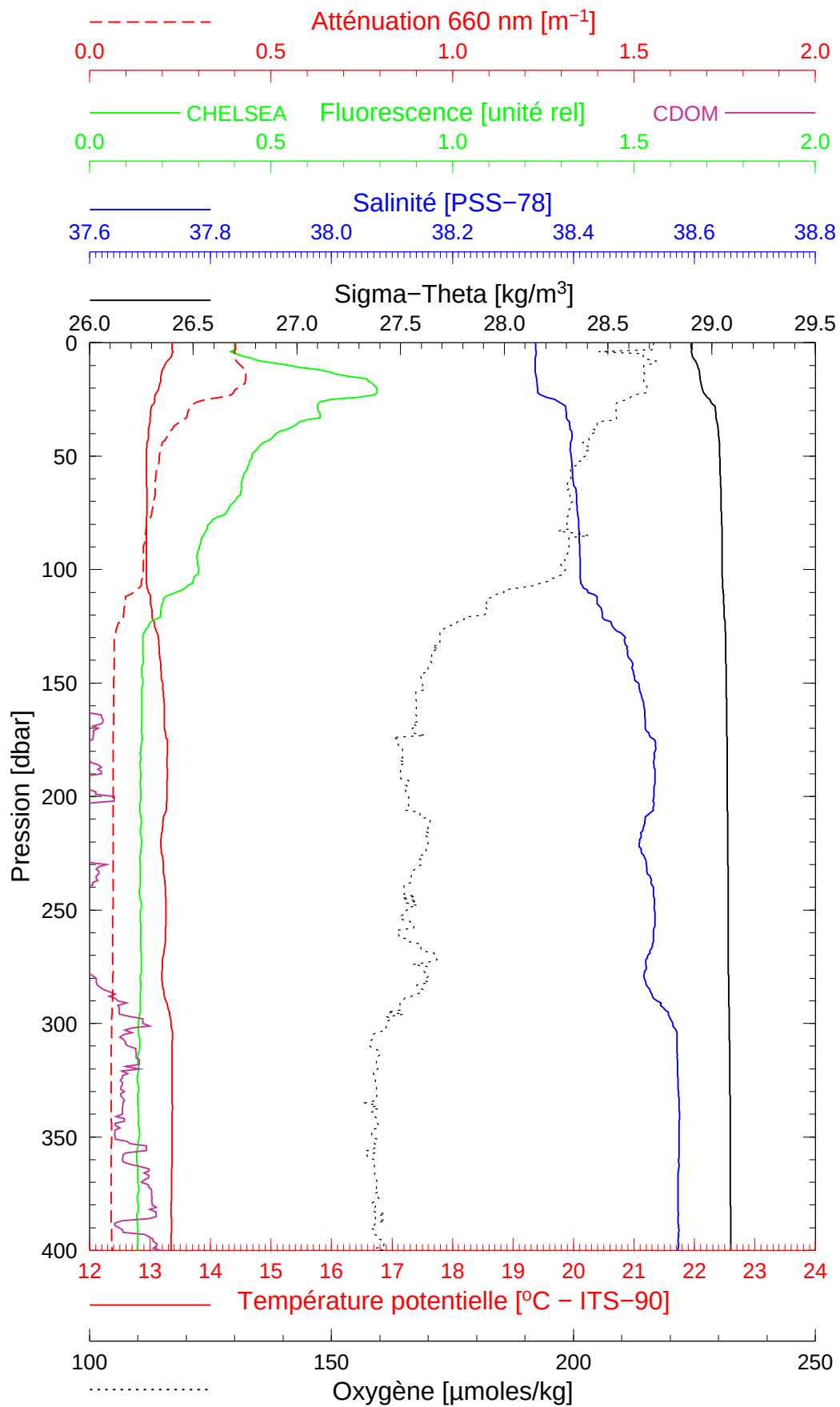
Latitude $43^{\circ}22.319$
Longitude $07^{\circ}53.930$

BOUSSOLE 85

14/03/2009

BOUS090314_01

BOUS002



Date 14/03/2009
Heure déb 11h 57min [TU]

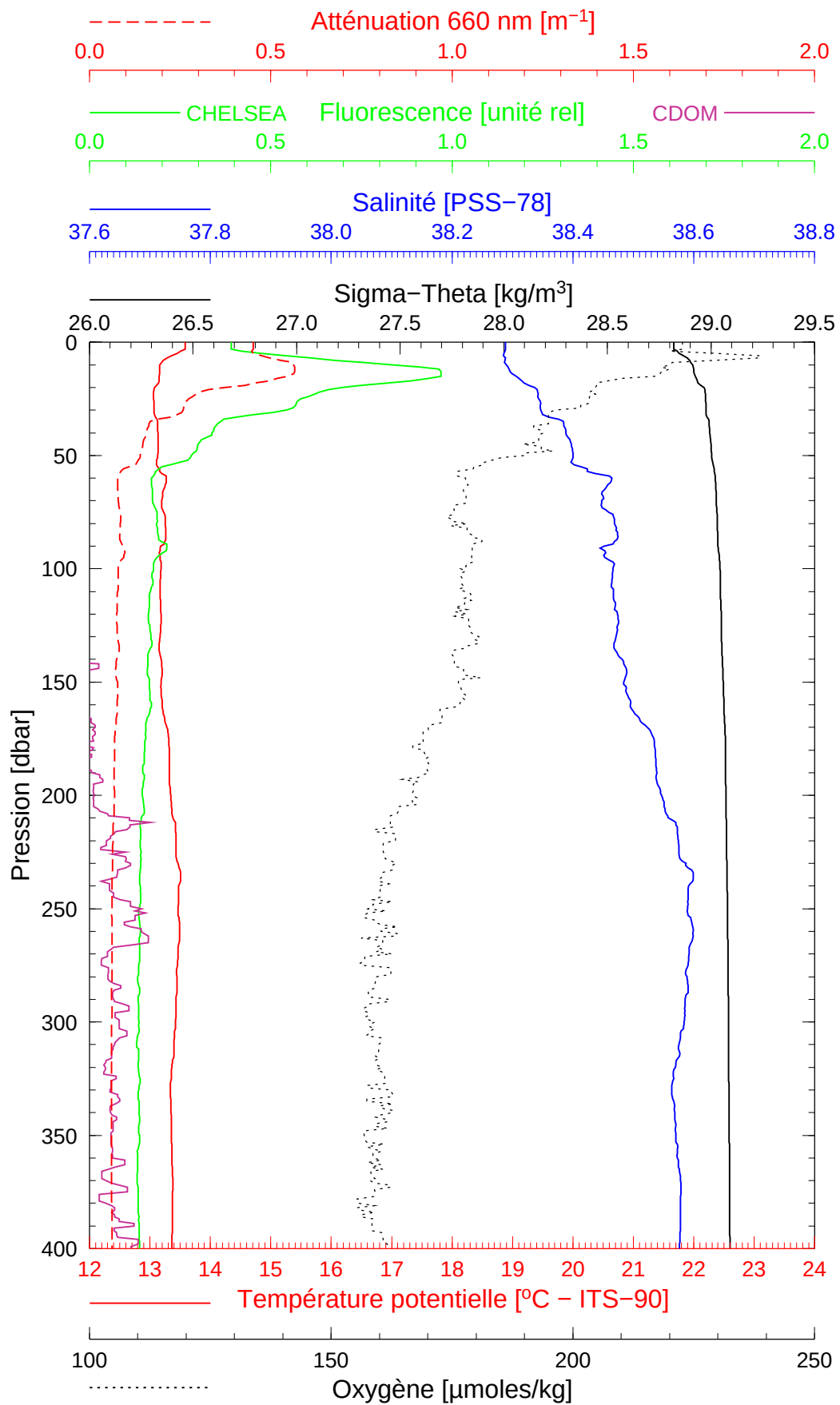
Latitude 43°22.254
Longitude 07°53.709

BOUSSOLE 85

14/03/2009

BOUS090314_02

BOUS003



Date 14/03/2009
Heure déb 13h 32min [TU]

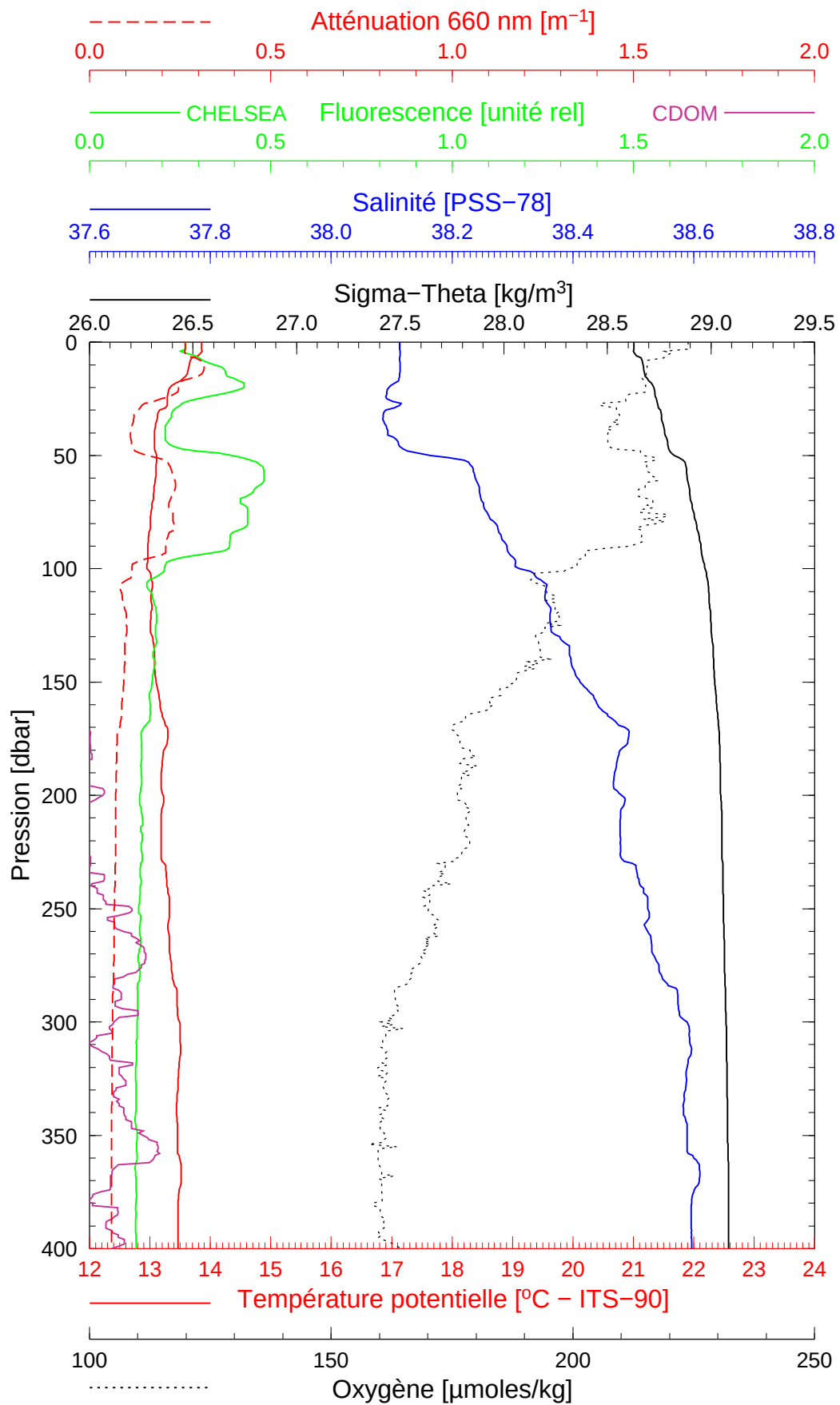
Latitude $43^{\circ}24.894$
Longitude $07^{\circ}48.092$

BOUSSOLE 85

14/03/2009

BOUS090314_03

BOUS004



Date 14/03/2009
Heure déb 14h 22min [TU]

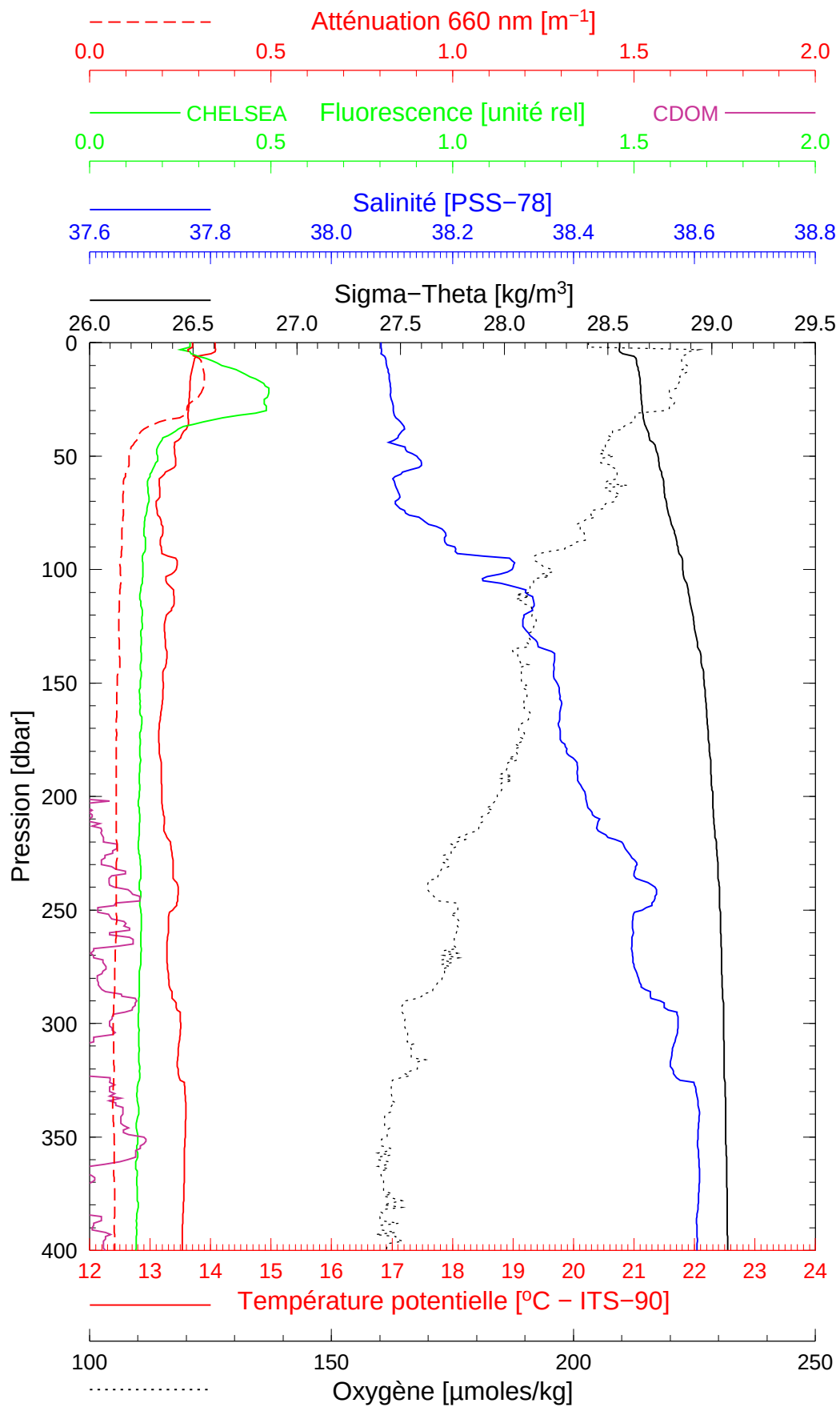
Latitude $43^{\circ}27.906$
Longitude $07^{\circ}41.967$

BOUSSOLE 85

14/03/2009

BOUS090314_04

BOUS005



Date 14/03/2009
Heure déb 15h 09min [TU]

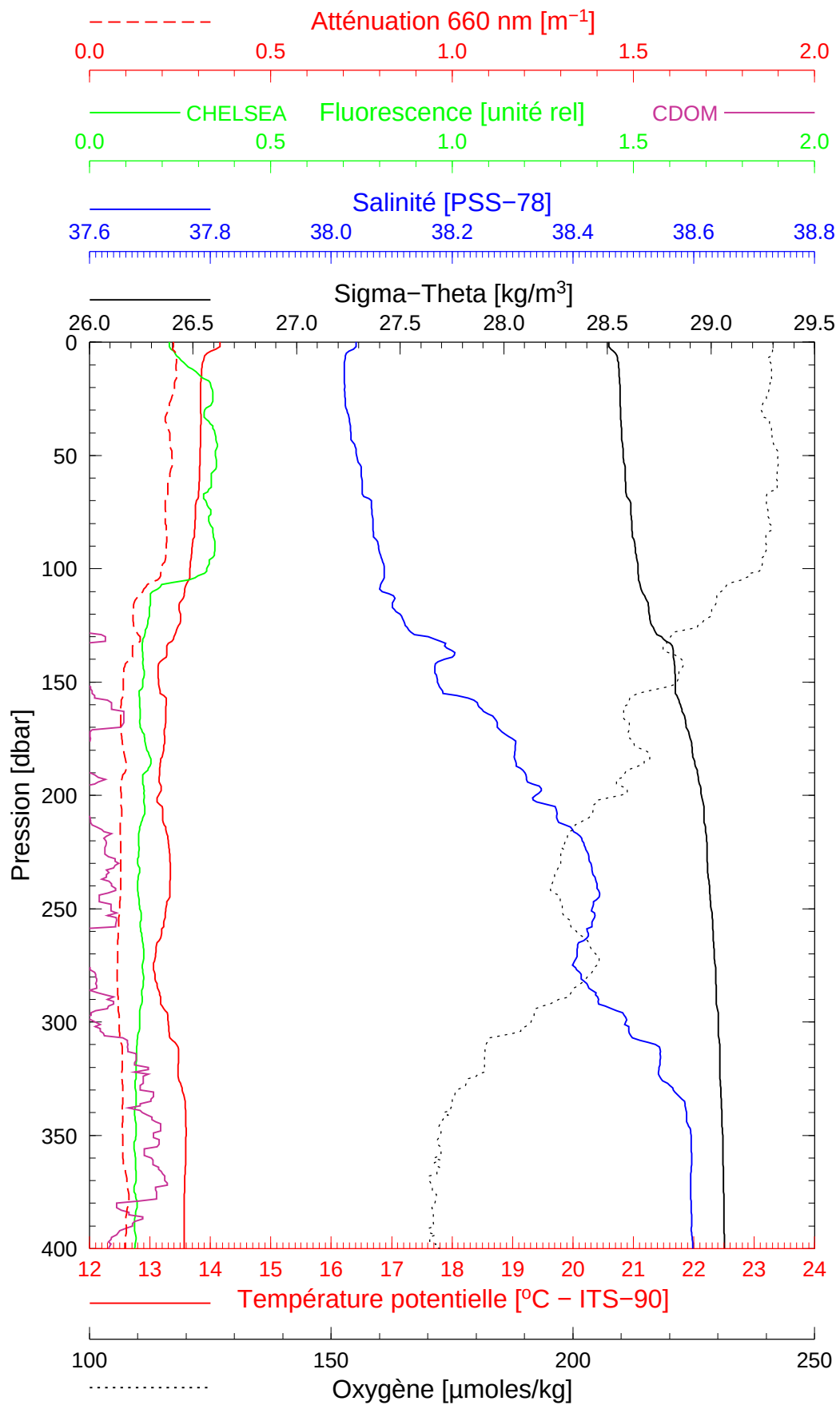
Latitude 43°30.981
Longitude 07°36.953

BOUSSOLE 85

14/03/2009

BOUS090314_05

BOUS006



Date 14/03/2009
Heure déb 16h 00min [TU]

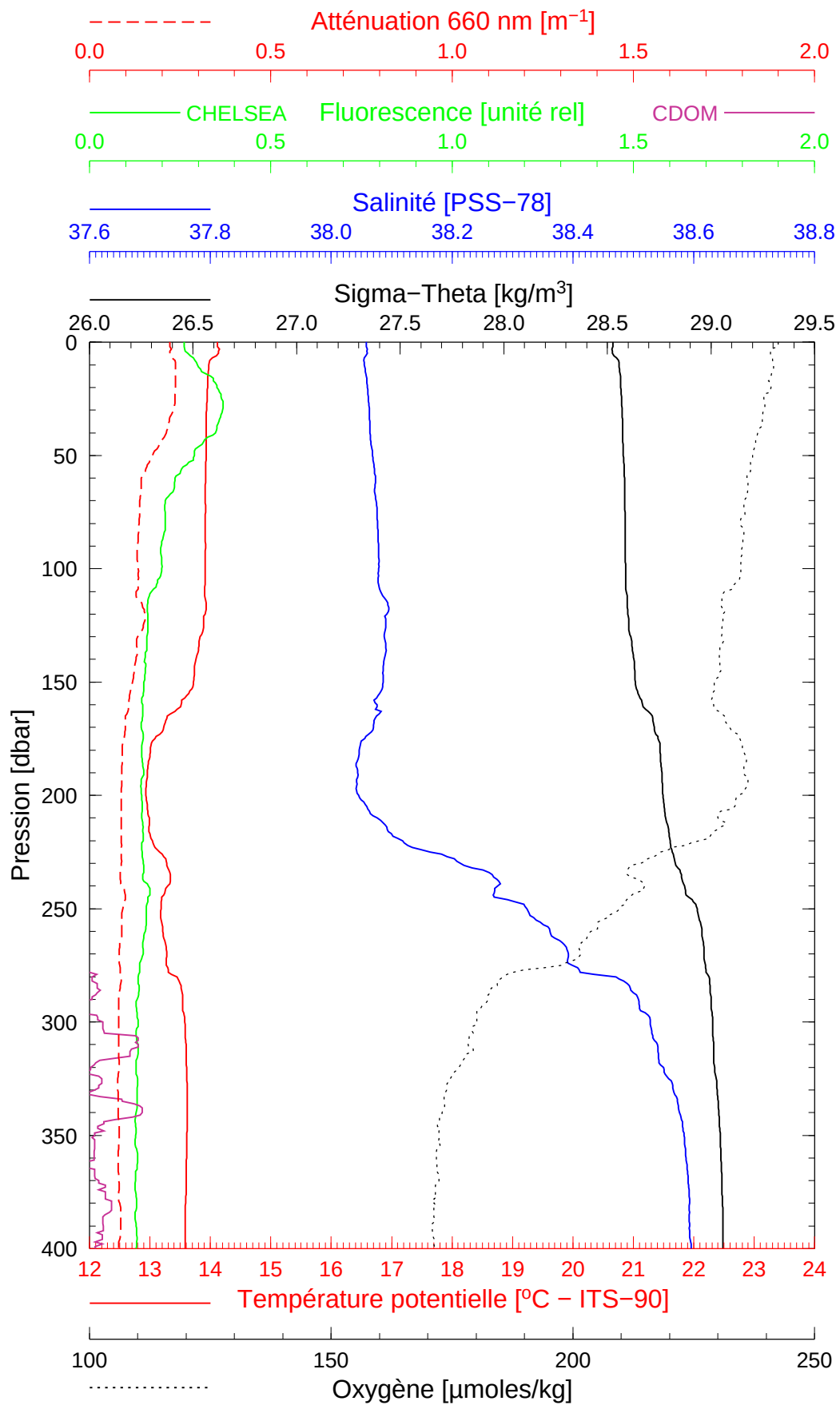
Latitude $43^{\circ}33.902$
Longitude $07^{\circ}30.844$

BOUSSOLE 85

14/03/2009

BOUS090314_06

BOUS007



Date 14/03/2009
Heure déb 16h 53min [TU]

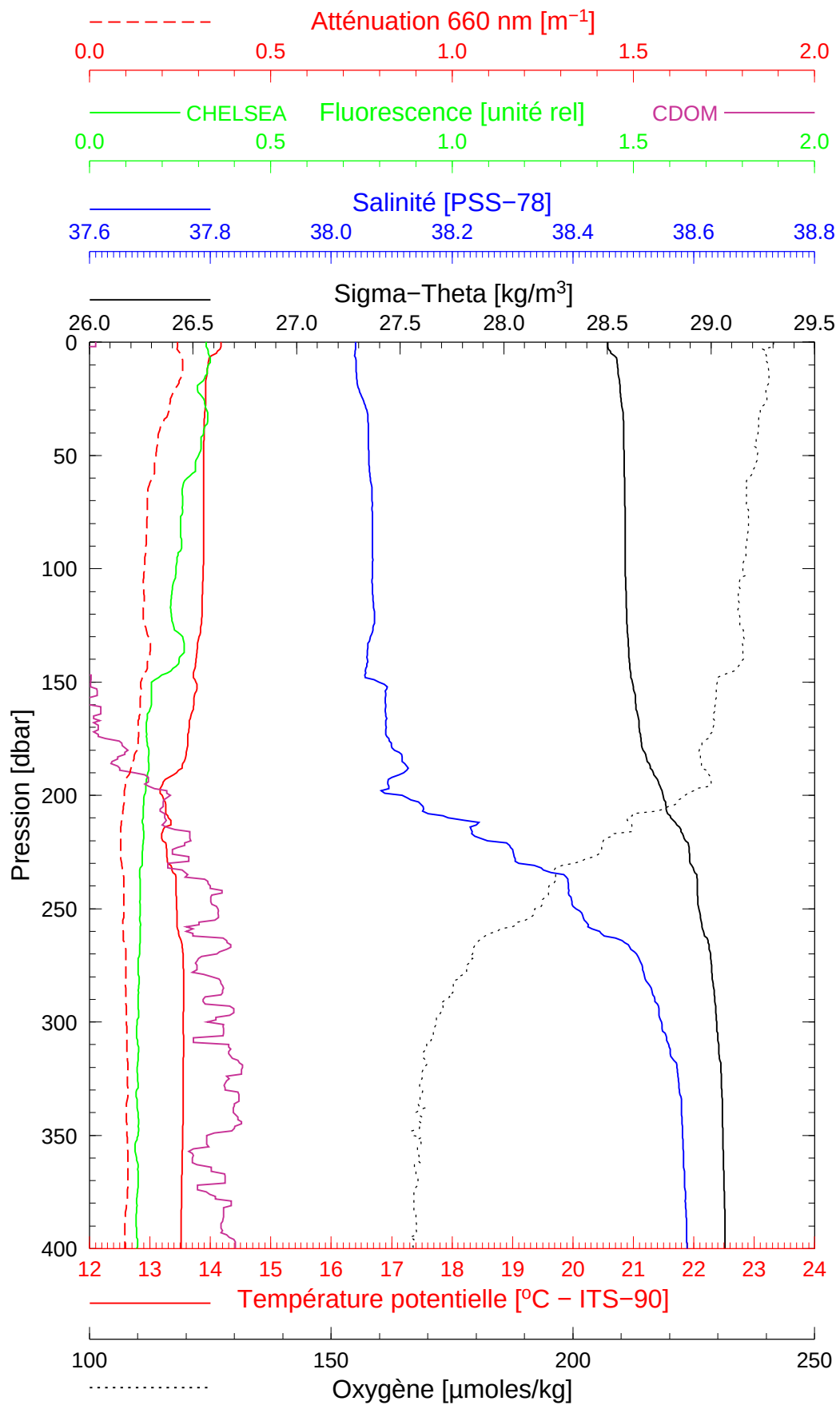
Latitude 43°37.026
Longitude 07°24.949

BOUSSOLE 85

14/03/2009

BOUS090314_07

BOUS008



Date 14/03/2009
Heure déb 17h 32min [TU]

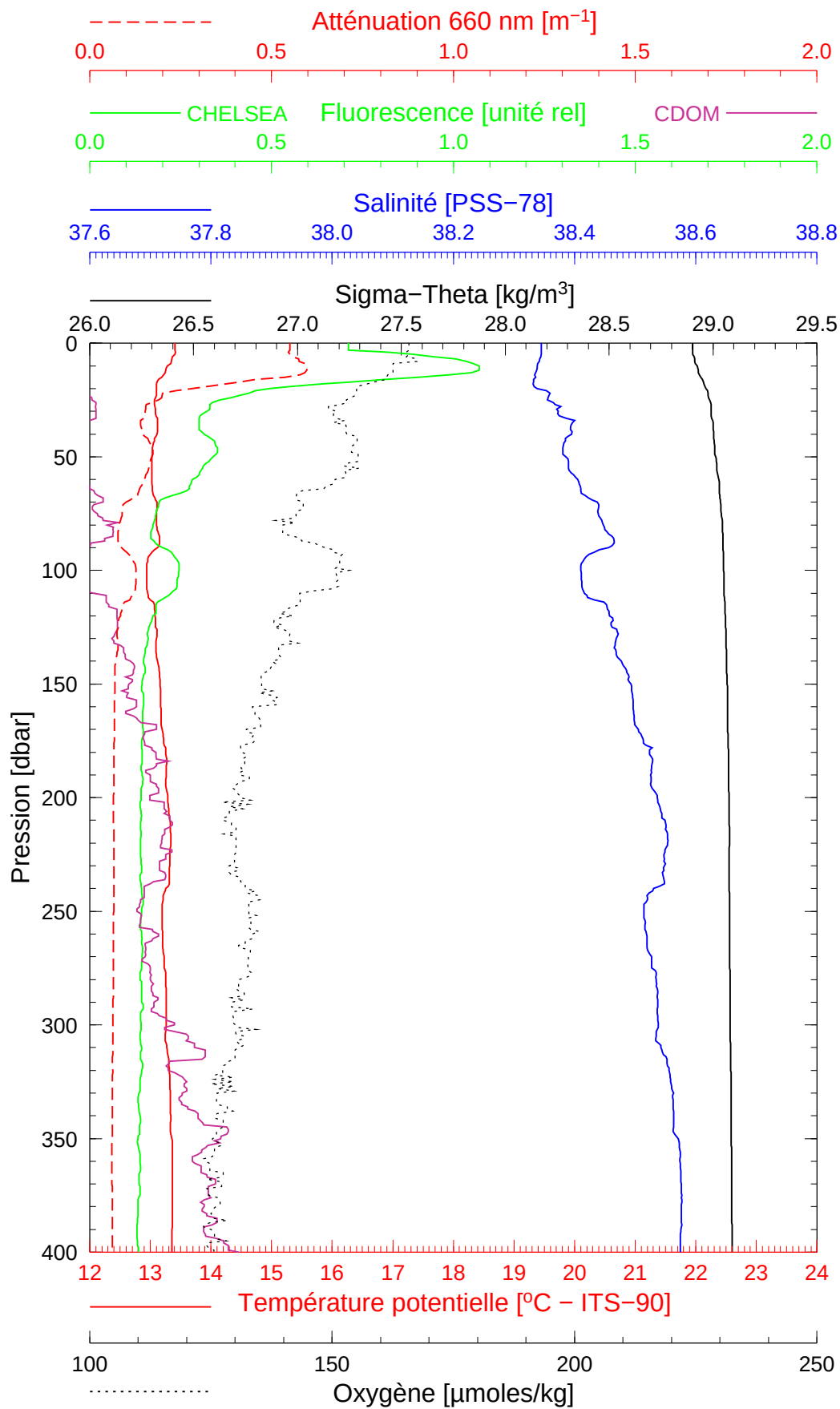
Latitude 43°39.028
Longitude 07°21.060

BOUSSOLE 85

15/03/2009

BOUS090315_01

BOUS009



Date 15/03/2009
Heure déb 10h 35min [TU]

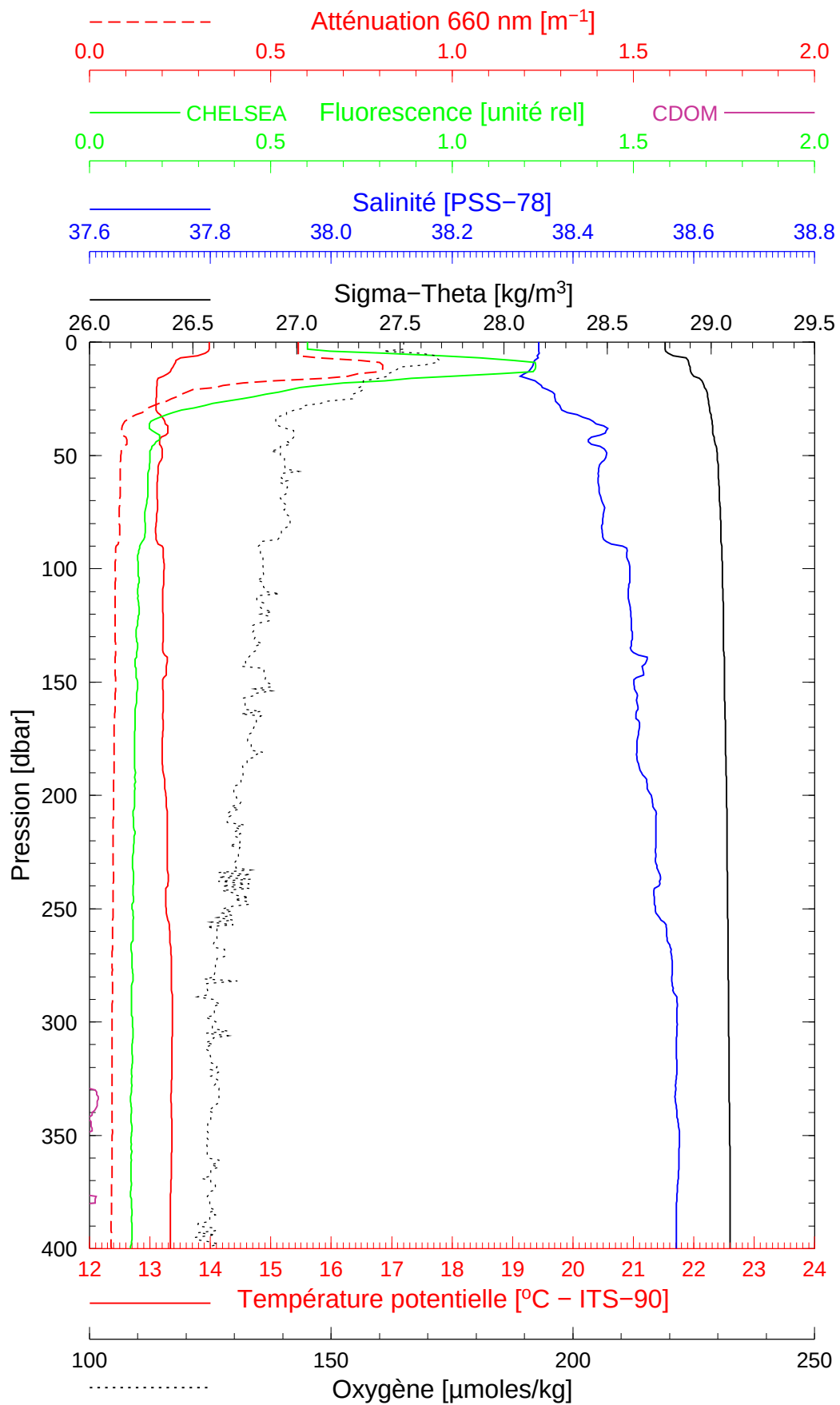
Latitude 43°22.037
Longitude 07°53.791

BOUSSOLE 85

15/03/2009

BOUS090315_02

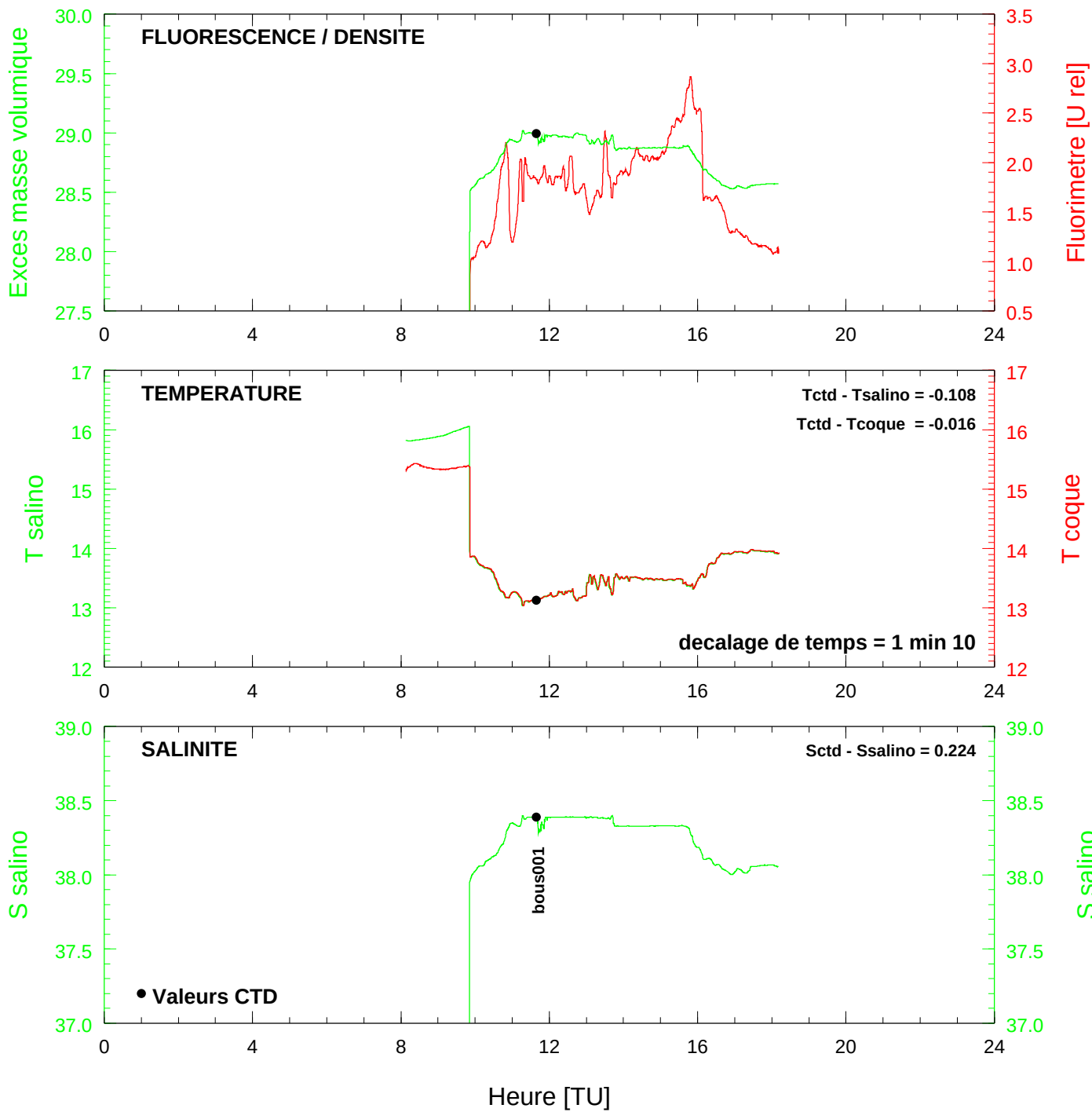
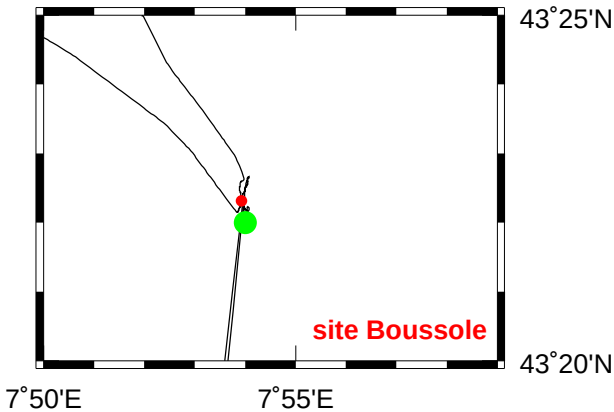
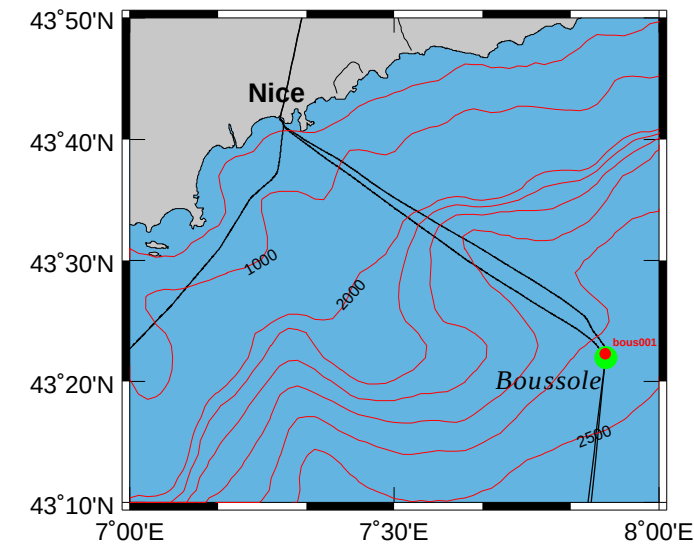
BOUS010



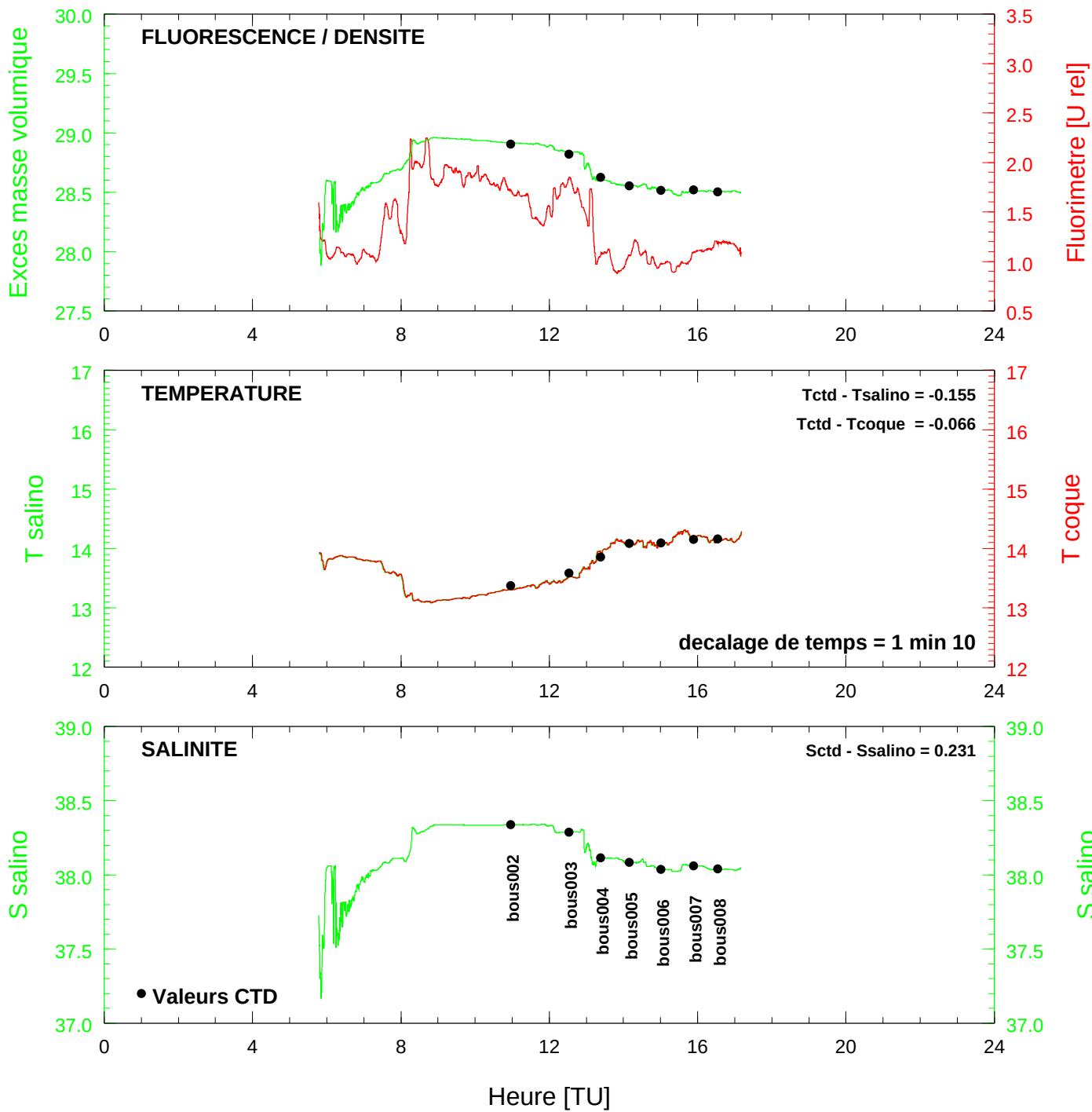
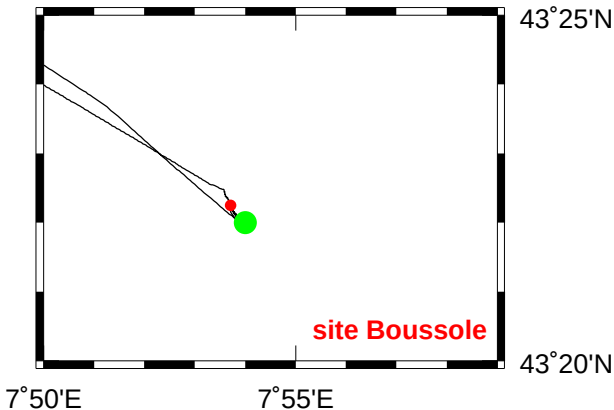
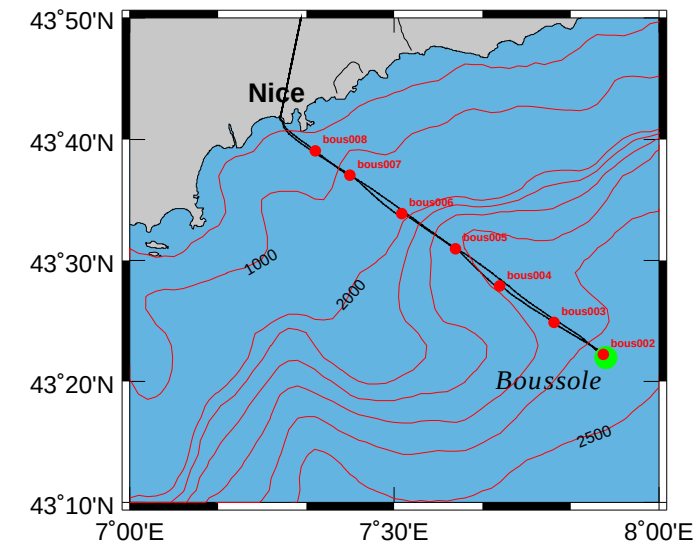
Date 15/03/2009
Heure déb 15h 41min [TU]

Latitude 43°22.299
Longitude 07°52.902

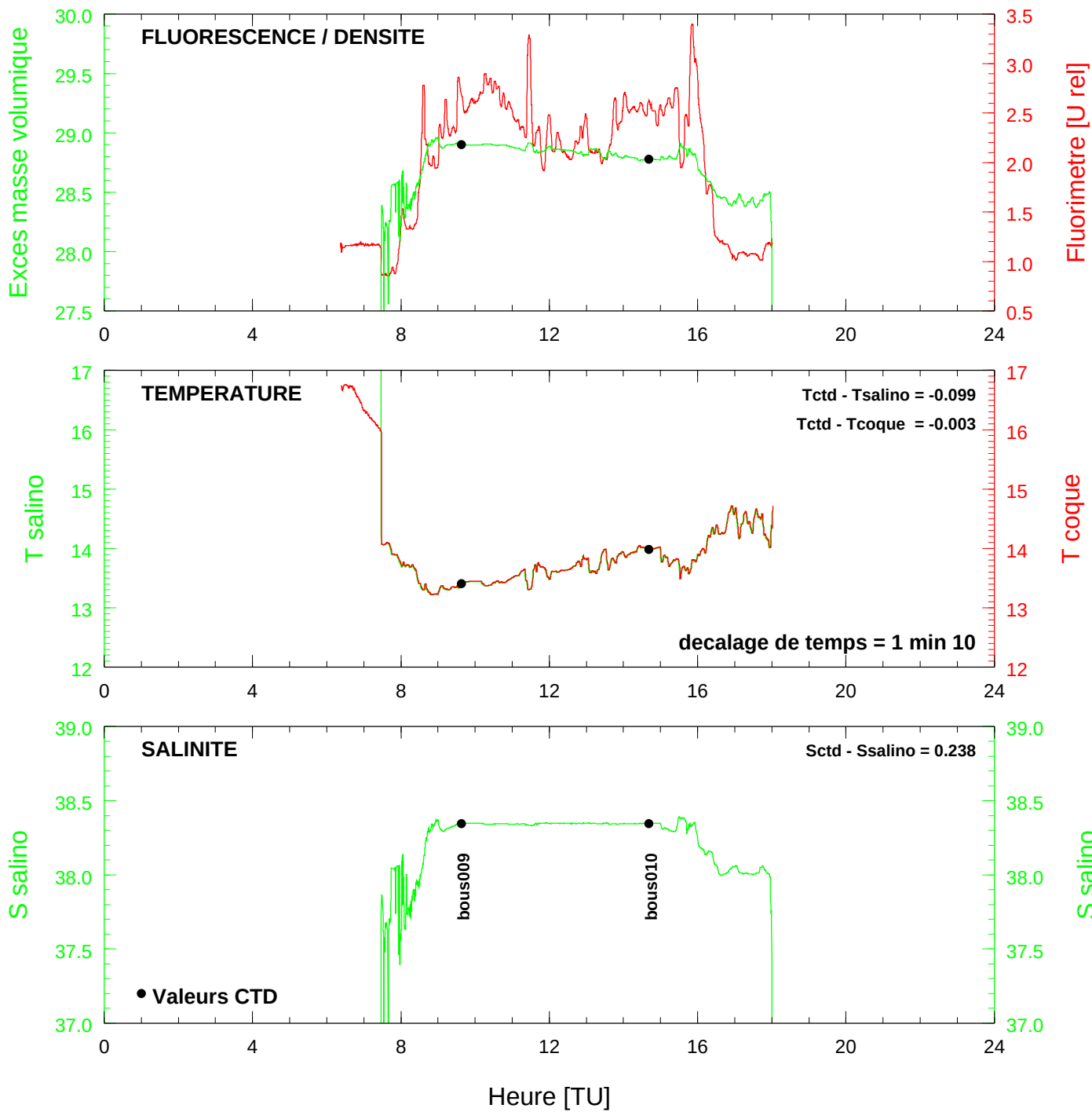
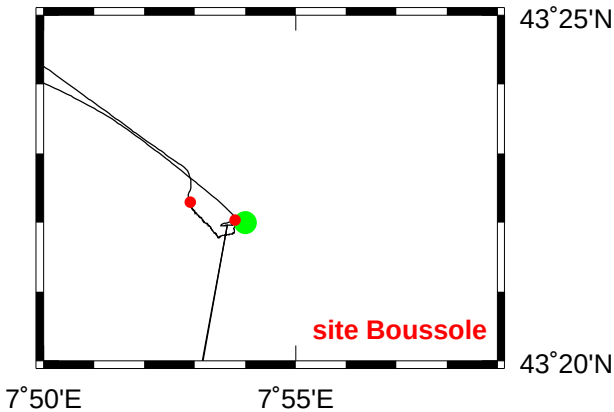
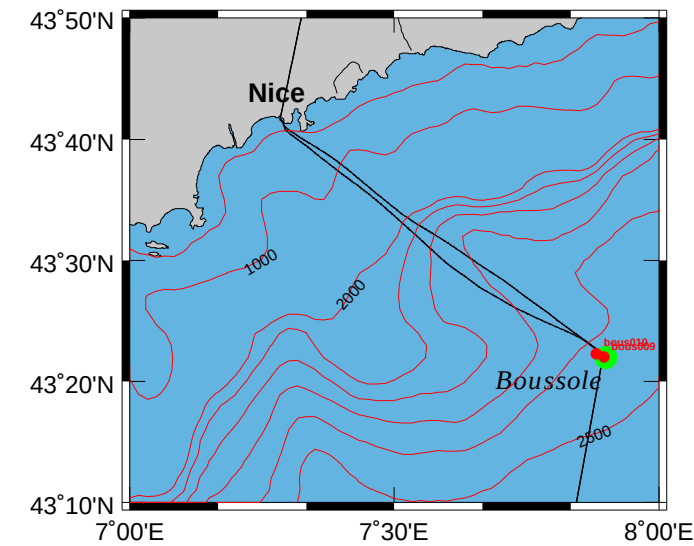
BOUSSOLE 85 13 mars 2009

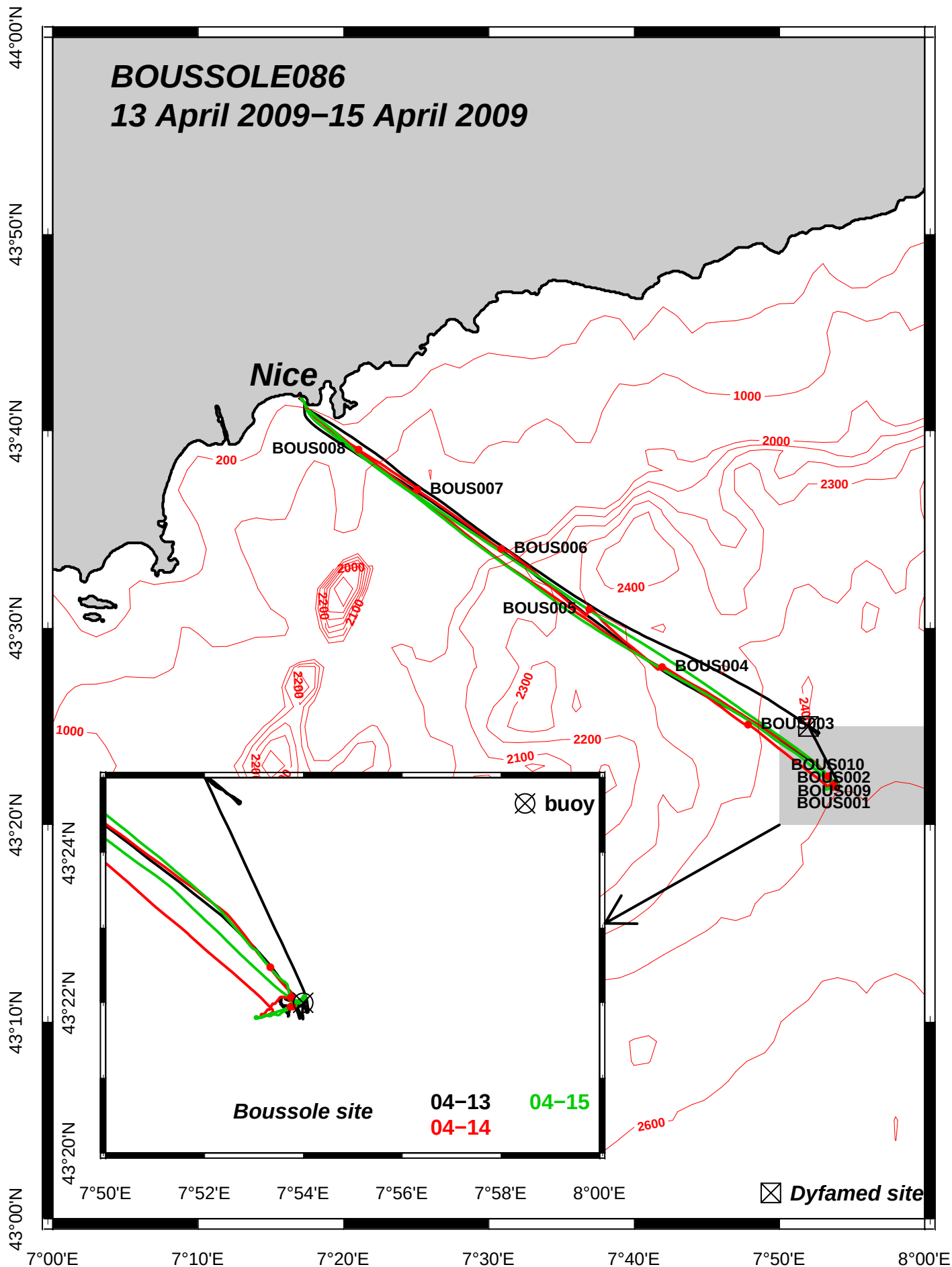


BOUSSOLE 85 14 mars 2009



BOUSSOLE 85 15 mars 2009





Instrument configuration file: **C:\boussole\2009\200903\boussole_mar2009.con**

Configuration report for SBE 911plus/917plus CTD

Frequency channels suppressed : 0
Voltage words suppressed : 0
Computer interface : RS-232C
Scans to average : 1
NMEA position data added : No
NMEA depth data added : No
NMEA time added : No
Surface PAR voltage added : No
Scan time added : No

1) Frequency 0, **Temperature**

Serial number : **1378**
Calibrated on : 05-Sep-08
G : 4.87113984e-003
H : 6.79469483e-004
I : 2.72588409e-005
J : 2.18859819e-006
F0 : 1000.000
Slope : 1.00000000
Offset : 0.0000

2) Frequency 1, **Conductivity**

Serial number : **2929**
Calibrated on : 22-Aug-08
G : -1.06100220e+001
H : 1.42248535e+000
I : 3.69106162e-005
J : 5.90824323e-005
CTcor : 3.2500e-006
CPcor : -9.57000000e-008
Slope : 1.00000000
Offset : 0.00000

3) Frequency 2, **Pressure, Digiquartz with TC**

Serial number : **53981**
Calibrated on : 11-Jan-95
C1 : -4.499337e+004
C2 : 4.543683e-001
C3 : 1.505020e-002
D1 : 3.936600e-002
D2 : 0.000000e+000
T1 : 3.004660e+001
T2 : -1.897714e-004
T3 : 4.727060e-006
T4 : 1.923520e-009
T5 : 0.000000e+000
Slope : 0.99985000
Offset : 0.11430
AD590M : 1.138000e-002
AD590B : -8.189160e+000

4) Frequency 3, Free

5) Frequency 4, Free

6) A/D voltage 0, **Oxygen, SBE 43**

Serial number : **0378**
Calibrated on : 10-Oct-08p
Equation : Murphy-Larson
Coefficients for Owens-Millard:
Soc : 0.0000e+000
Boc : 0.0000
Offset : 0.0000
Tcor : 0.0000
Pcor : 0.00e+000
Tau : 0.0
Coefficients for Murphy-Larson:
Soc : 3.00900e-001
Offset : -6.62900e-001
A : -4.59880e-004
B : 1.98170e-004
C : -4.09020e-006
E : 3.60000e-002
Tau : 1.39000e+000

7) A/D voltage 1, Free

8) A/D voltage 2, **Fluorometer, Chelsea Aqua 3**

Serial number : **088193**
Calibrated on : 27-oct-97
VB : 0.165000
V1 : 1.933000
Vacetone : 0.250000
Scale factor : 1.000000
Slope : 1.000000
Offset : 0.000000

9) A/D voltage 3, Free

10) A/D voltage 4, **Fluorometer, Wetlab CDOM**

Serial number : **1095P**
Calibrated on : 04-Sep-08
Vblank : 0.045
Scale factor : 62.000

11) A/D voltage 5, **Transmissometer, Chelsea/Seatech/Wetlab CStar**

Serial number : **887DR**
Calibrated on : 22-Sep-08
M : 21.4270
B : -1.2856
Path length : 0.250

12) A/D voltage 6, Free

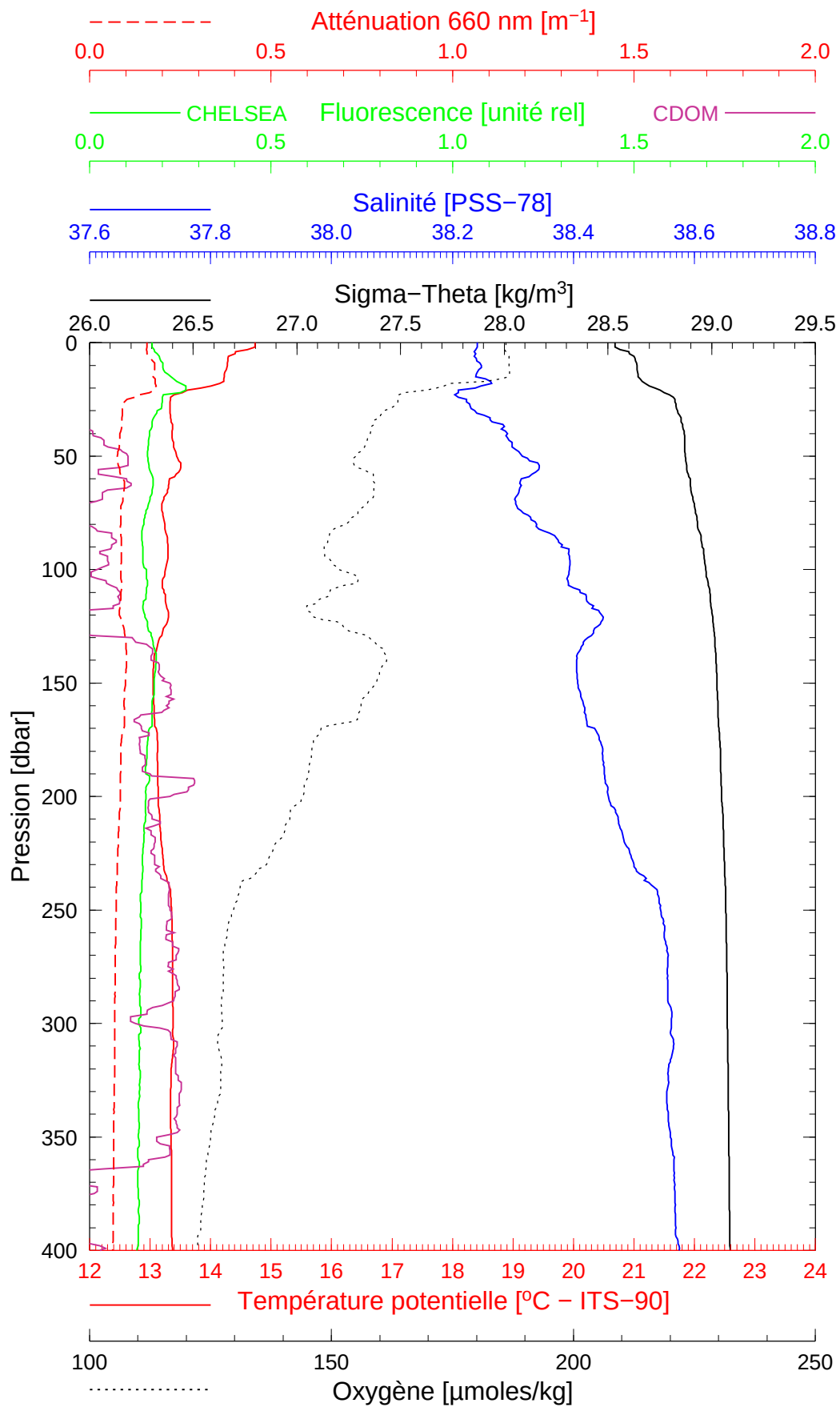
13) A/D voltage 7, Free

BOUSSOLE 86

13/04/2009

BOUS090413_01

BOUS001



Date 13/04/2009
Heure déb 13h 40min [TU]

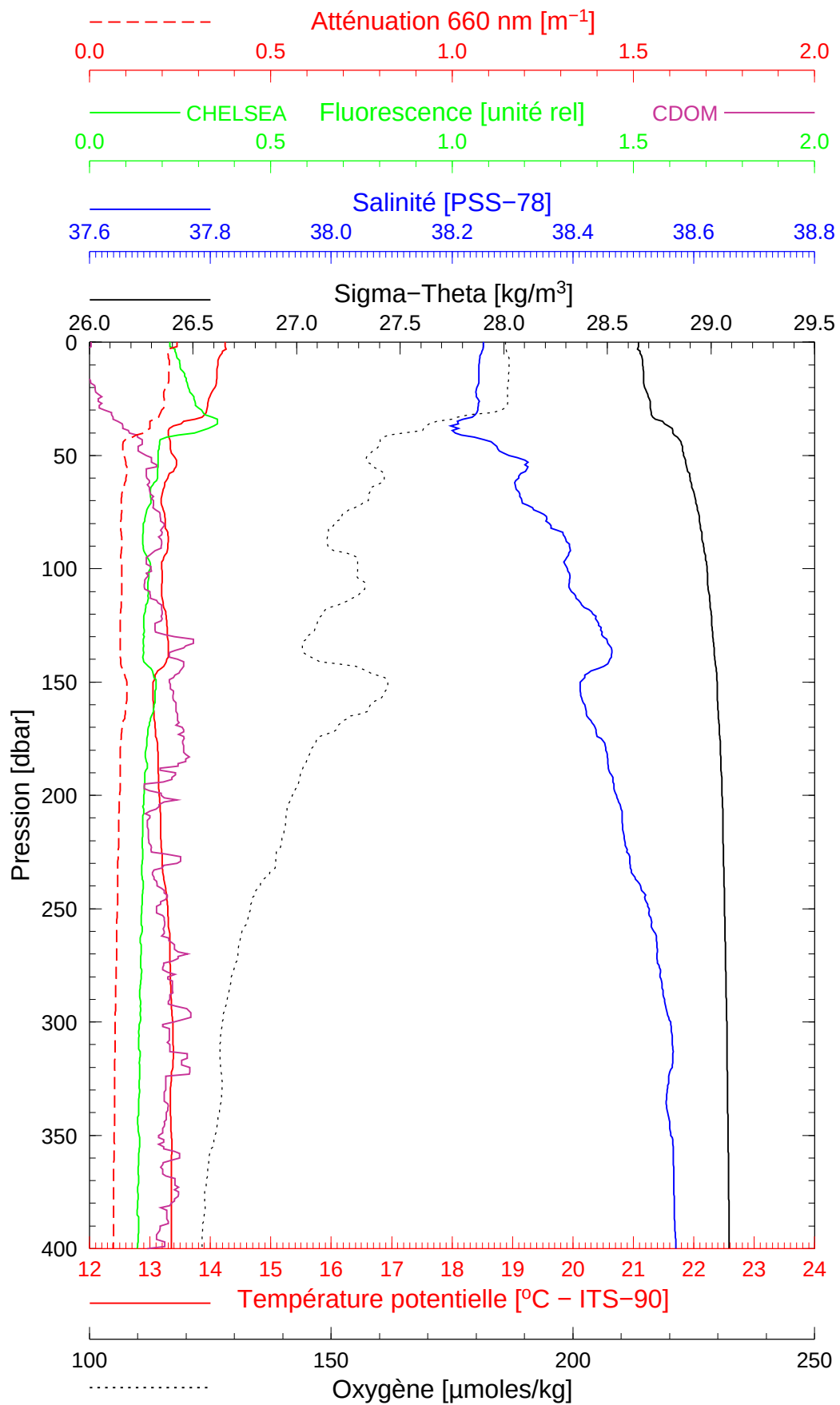
Latitude $43^{\circ}21.947$
Longitude $07^{\circ}53.742$

BOUSSOLE 86

14/04/2009

BOUS090414_01

BOUS002



Date 14/04/2009
Heure déb 10h 40min [TU]

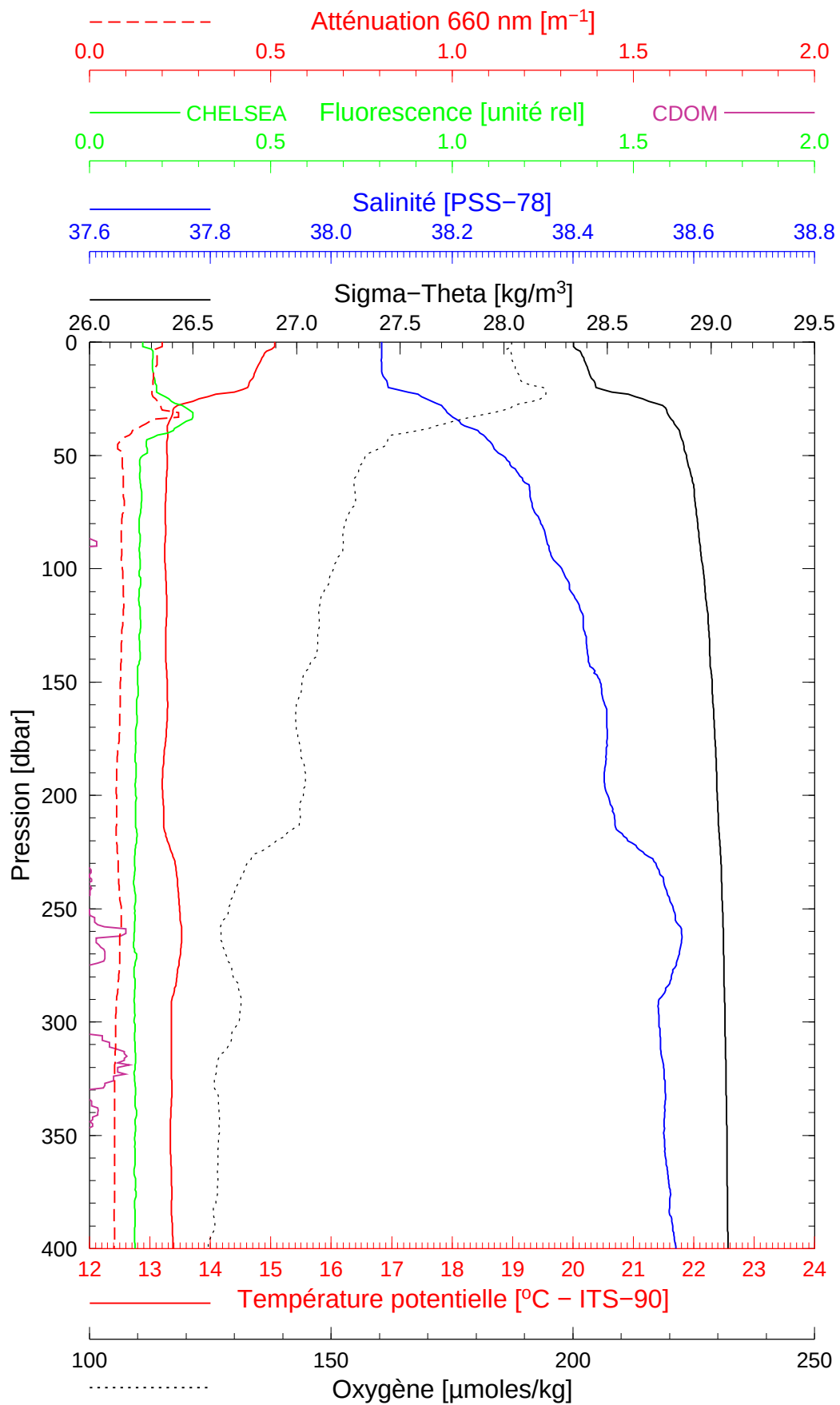
Latitude 43°22.070
Longitude 07°53.746

BOUSSOLE 86

14/04/2009

BOUS090414_02

BOUS003



Date 14/04/2009
Heure déb 12h 36min [TU]

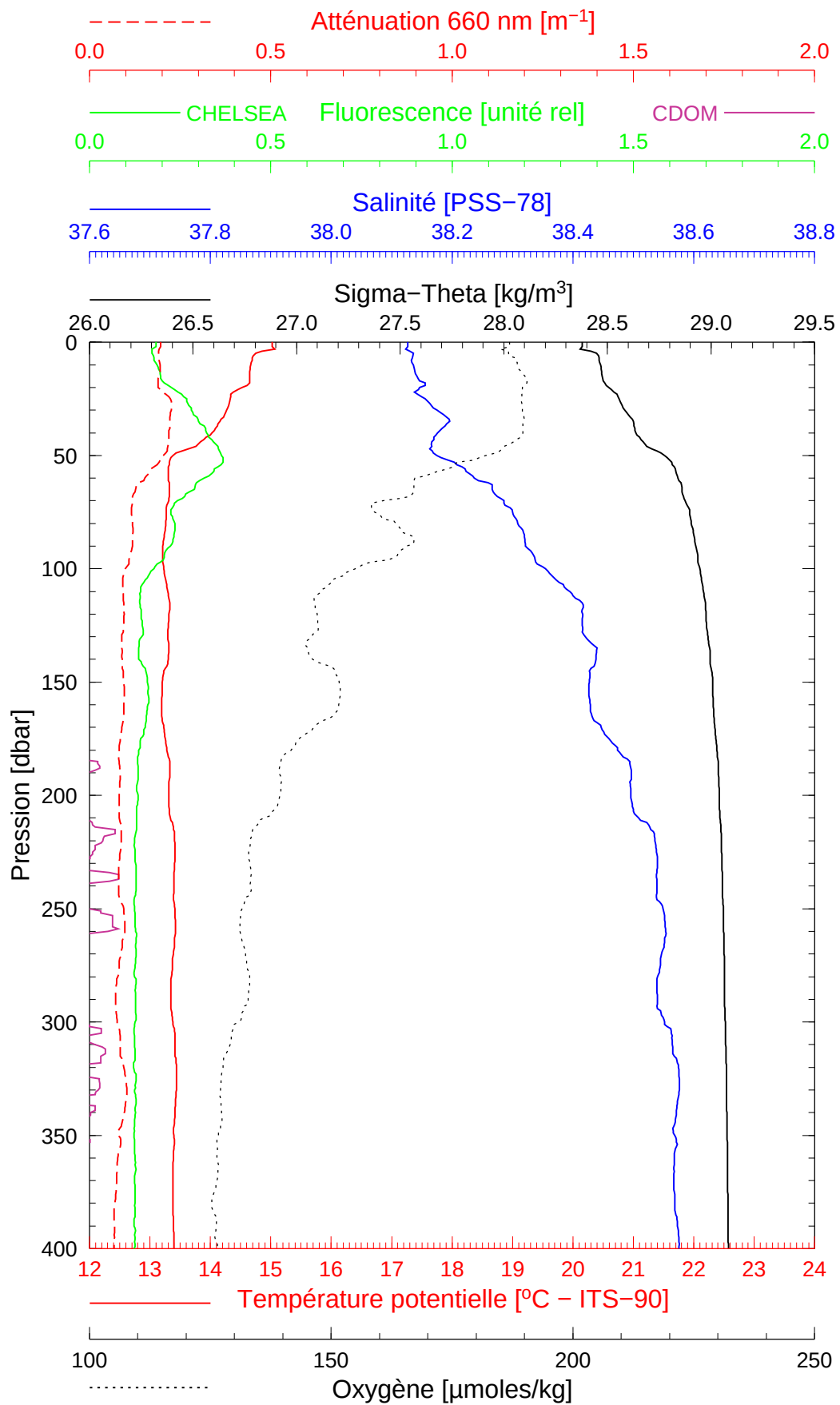
Latitude 43°25.089
Longitude 07°47.842

BOUSSOLE 86

14/04/2009

BOUS090414_03

BOUS004



Date 14/04/2009
Heure déb 13h 29min [TU]

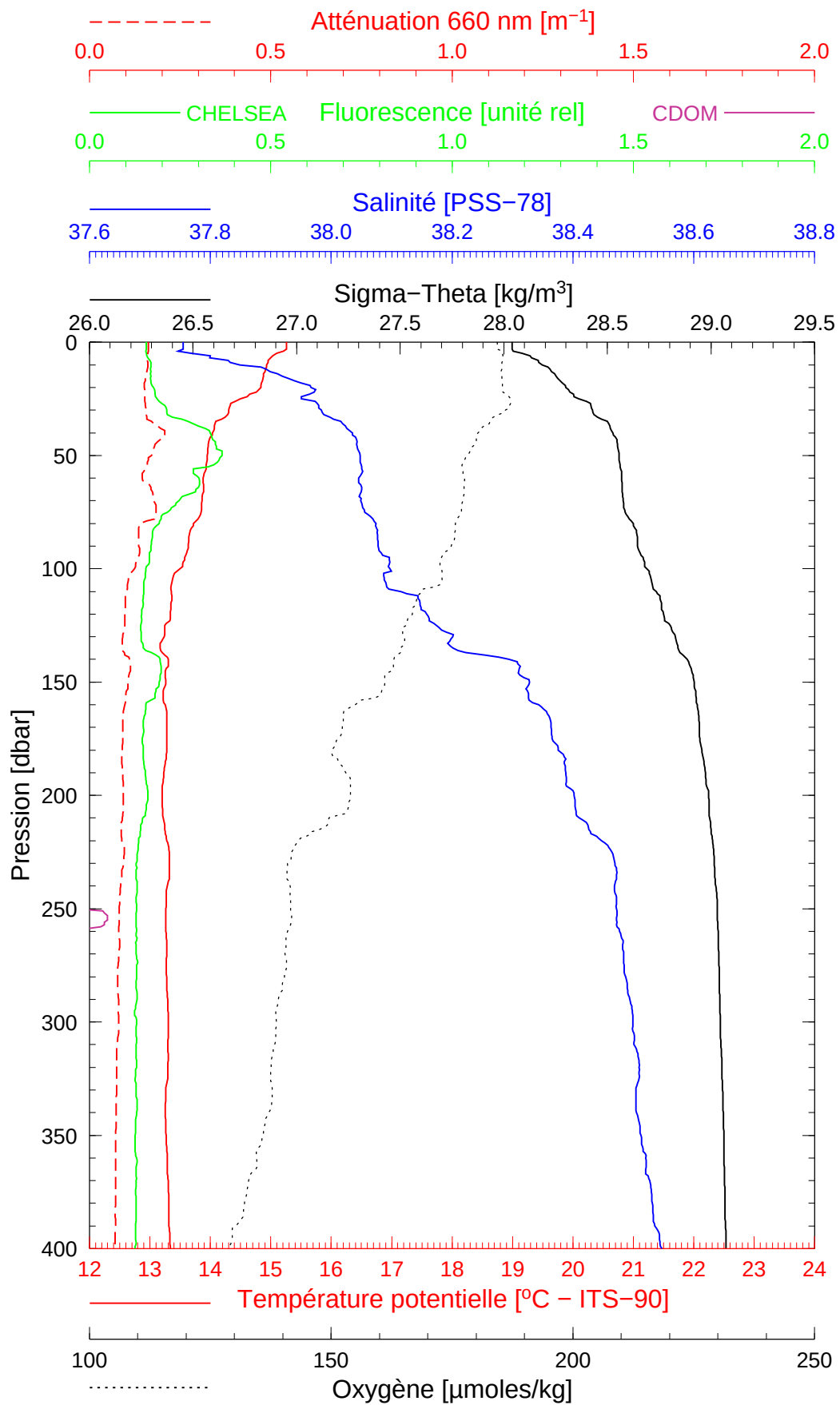
Latitude $43^{\circ}28.015$
Longitude $07^{\circ}41.934$

BOUSSOLE 86

14/04/2009

BOUS090414_04

BOUS005



Date 14/04/2009
Heure déb 14h 21min [TU]

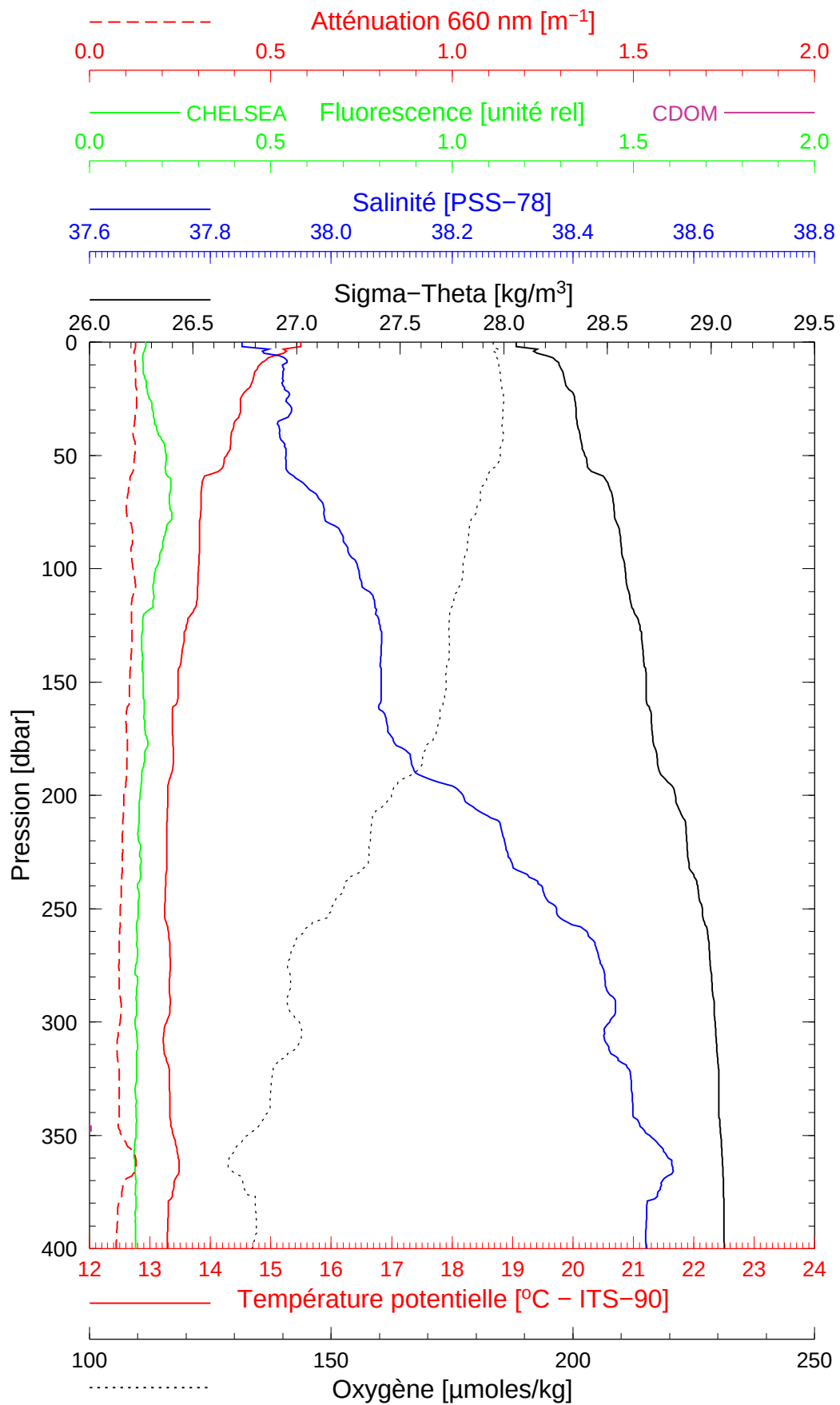
Latitude 43°30.945
Longitude 07°36.922

BOUSSOLE 86

14/04/2009

BOUS090414_05

BOUS006



Date 14/04/2009
Heure déb 15h 17min [TU]

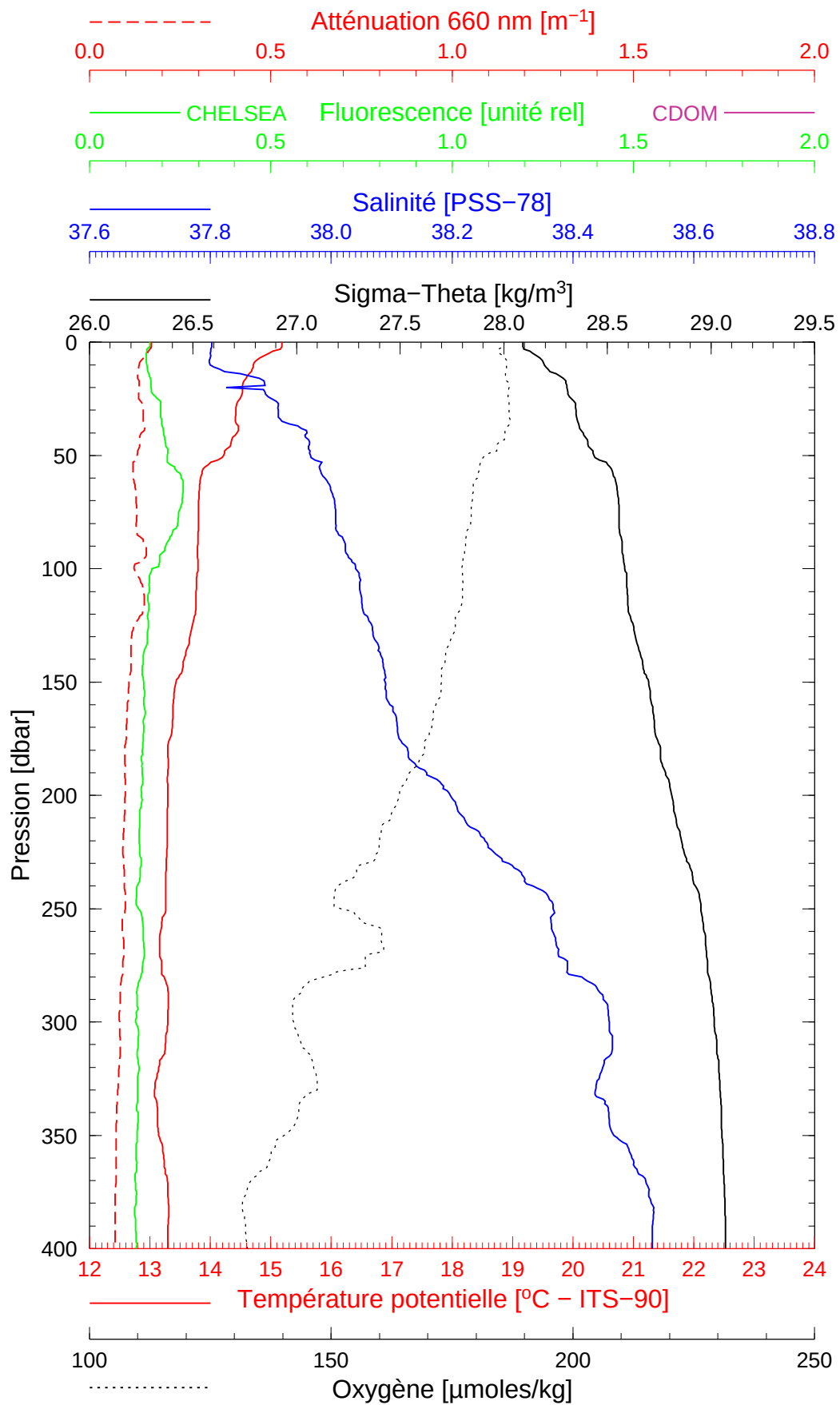
Latitude 43°34.016
Longitude 07°30.860

BOUSSOLE 86

14/04/2009

BOUS090414_06

BOUS007



Date 14/04/2009
Heure déb 16h 16min [TU]

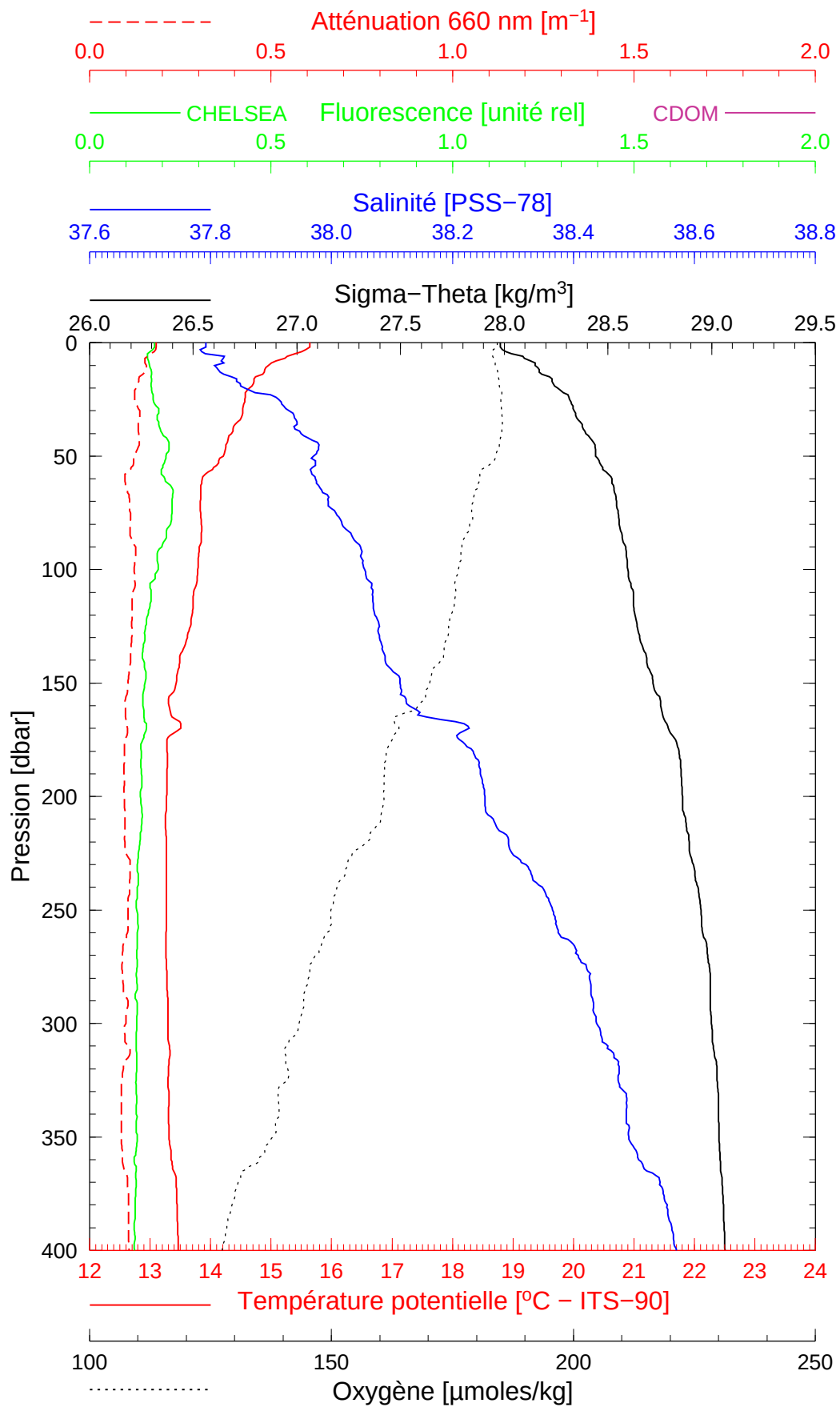
Latitude 43°37.029
Longitude 07°25.075

BOUSSOLE 86

14/04/2009

BOUS090414_07

BOUS008



Date 14/04/2009
Heure déb 17h 03min [TU]

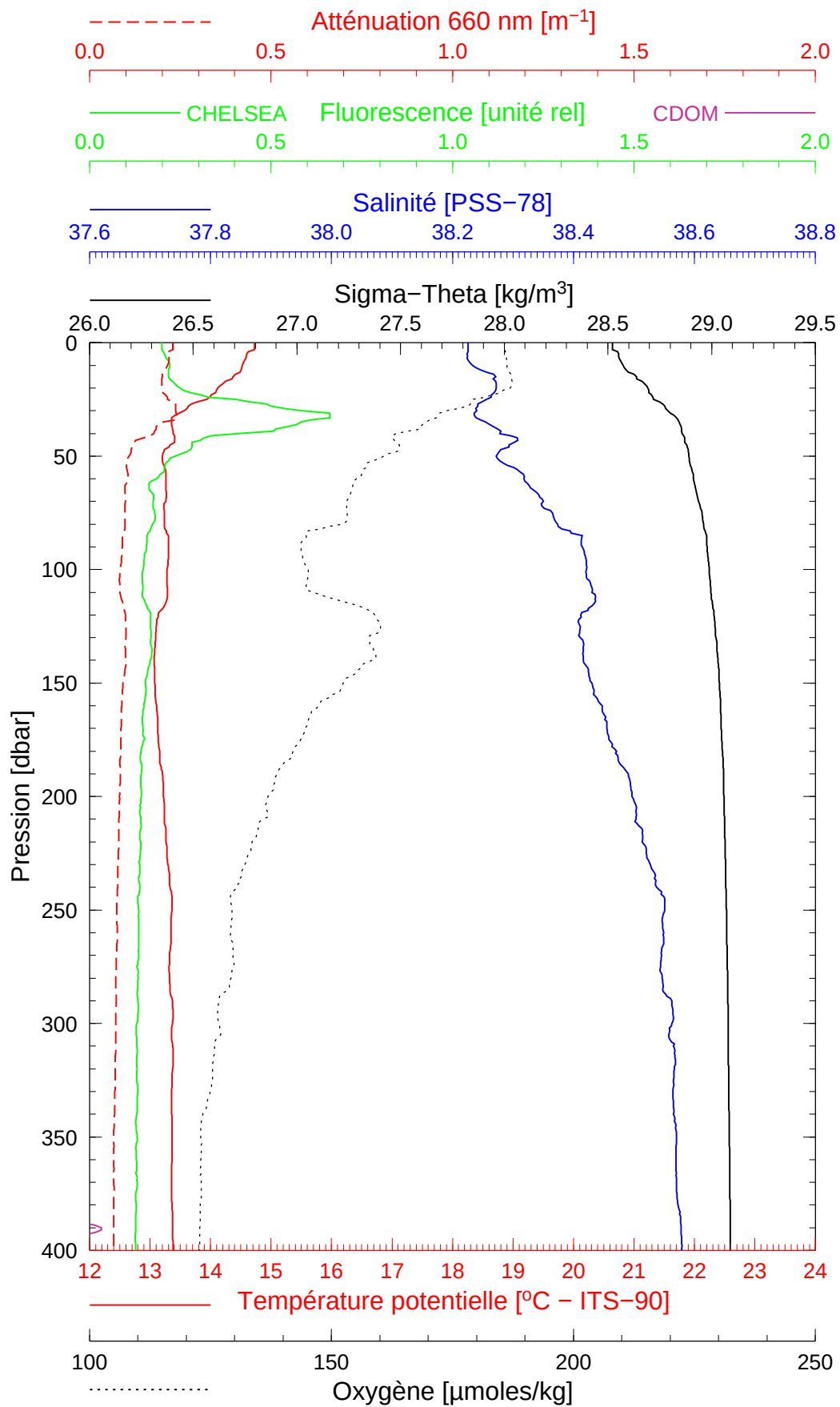
Latitude 43°39.058
Longitude 07°21.046

BOUSSOLE 86

15/04/2009

BOUS090415_01

BOUS009



Date 15/04/2009
Heure déb 11h 49min [TU]

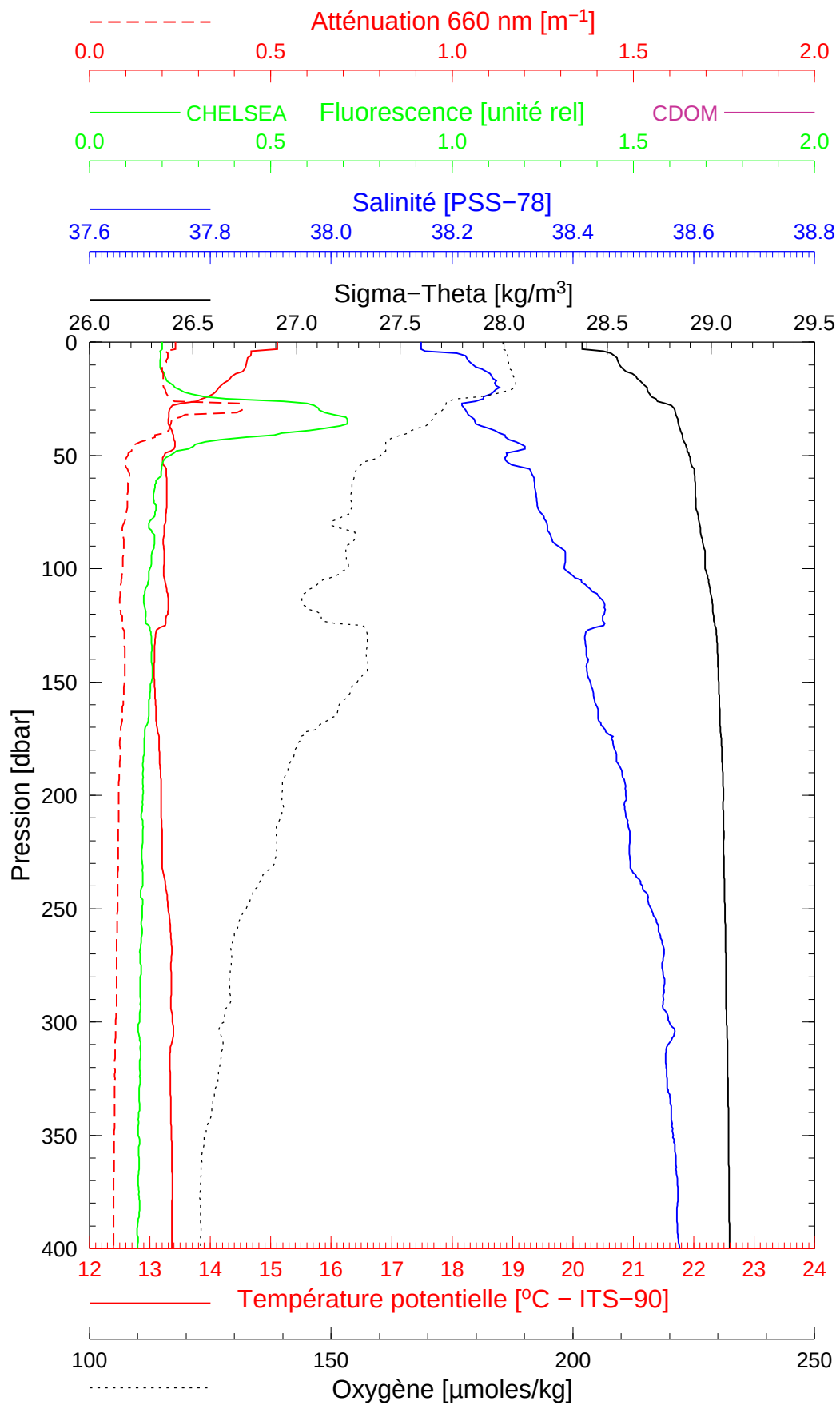
Latitude $43^{\circ}21.950$
Longitude $07^{\circ}53.785$

BOUSSOLE 86

15/04/2009

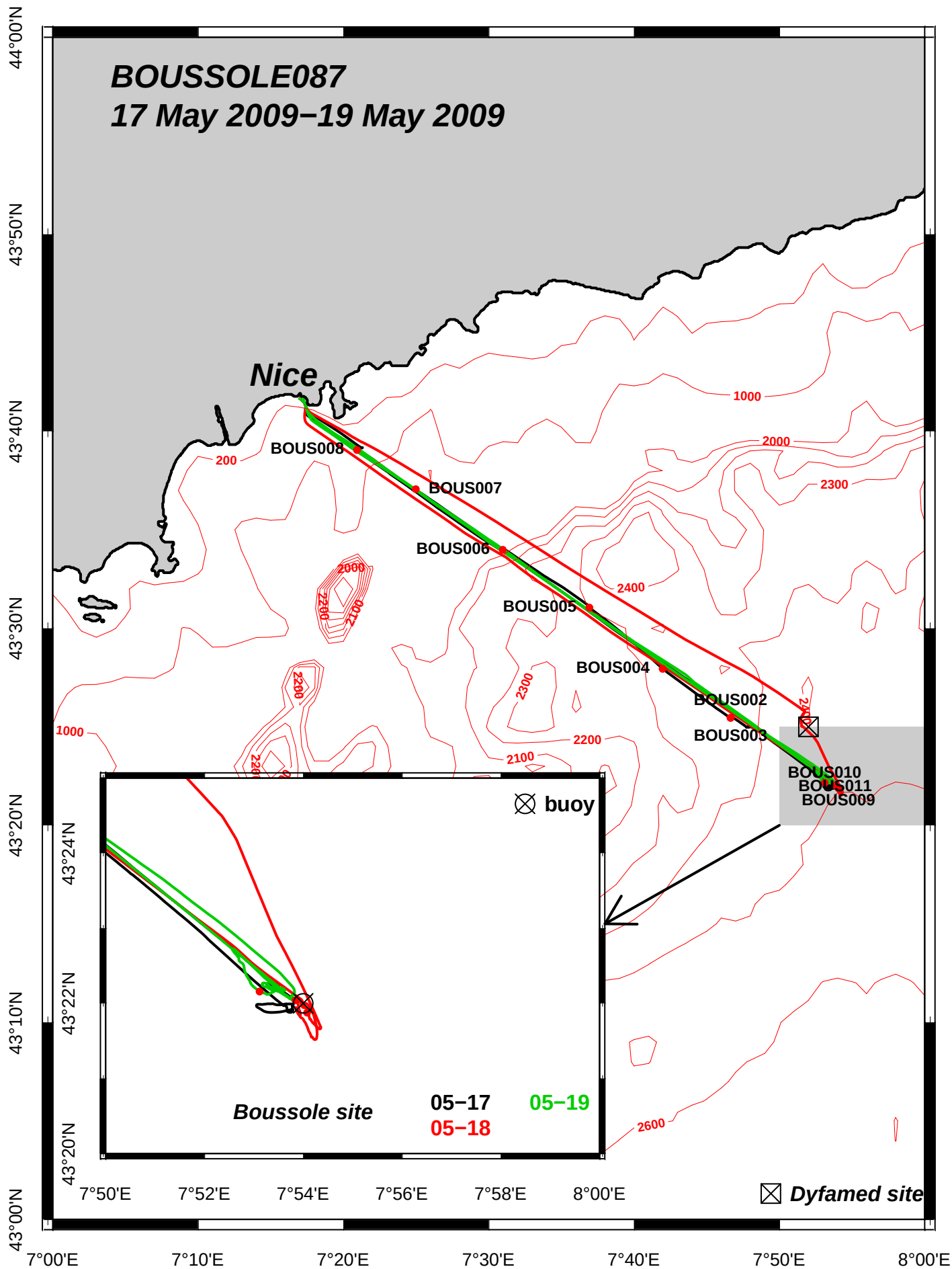
BOUS090415_02

BOUS010



Date 15/04/2009
Heure déb 14h 05min [TU]

Latitude 43°22.474
Longitude 07°53.335



Instrument configuration file: **C:\boussole\2009\200903\boussole_mar2009.con**

Configuration report for SBE 911plus/917plus CTD

Frequency channels suppressed : 0
Voltage words suppressed : 0
Computer interface : RS-232C
Scans to average : 1
NMEA position data added : No
NMEA depth data added : No
NMEA time added : No
Surface PAR voltage added : No
Scan time added : No

1) Frequency 0, **Temperature**

Serial number : **1378**
Calibrated on : 05-Sep-08
G : 4.87113984e-003
H : 6.79469483e-004
I : 2.72588409e-005
J : 2.18859819e-006
F0 : 1000.000
Slope : 1.00000000
Offset : 0.0000

2) Frequency 1, **Conductivity**

Serial number : **2929**
Calibrated on : 22-Aug-08
G : -1.06100220e+001
H : 1.42248535e+000
I : 3.69106162e-005
J : 5.90824323e-005
CTcor : 3.2500e-006
CPcor : -9.57000000e-008
Slope : 1.00000000
Offset : 0.00000

3) Frequency 2, **Pressure, Digiquartz with TC**

Serial number : **53981**
Calibrated on : 11-Jan-95
C1 : -4.499337e+004
C2 : 4.543683e-001
C3 : 1.505020e-002
D1 : 3.936600e-002
D2 : 0.000000e+000
T1 : 3.004660e+001
T2 : -1.897714e-004
T3 : 4.727060e-006
T4 : 1.923520e-009
T5 : 0.000000e+000
Slope : 0.99985000
Offset : 0.11430
AD590M : 1.138000e-002
AD590B : -8.189160e+000

4) Frequency 3, Free

5) Frequency 4, Free

6) A/D voltage 0, **Oxygen, SBE 43**

Serial number : **0378**
Calibrated on : 10-Oct-08p
Equation : Murphy-Larson
Coefficients for Owens-Millard:
Soc : 0.0000e+000
Boc : 0.0000
Offset : 0.0000
Tcor : 0.0000
Pcor : 0.00e+000
Tau : 0.0
Coefficients for Murphy-Larson:
Soc : 3.00900e-001
Offset : -6.62900e-001
A : -4.59880e-004
B : 1.98170e-004
C : -4.09020e-006
E : 3.60000e-002
Tau : 1.39000e+000

7) A/D voltage 1, Free

8) A/D voltage 2, **Fluorometer, Chelsea Aqua 3**

Serial number : **088193**
Calibrated on : 27-oct-97
VB : 0.165000
V1 : 1.933000
Vacetone : 0.250000
Scale factor : 1.000000
Slope : 1.000000
Offset : 0.000000

9) A/D voltage 3, Free

10) A/D voltage 4, **Fluorometer, Wetlab CDOM**

Serial number : **1095P**
Calibrated on : 04-Sep-08
Vblank : 0.045
Scale factor : 62.000

11) A/D voltage 5, **Transmissometer, Chelsea/Seatech/Wetlab CStar**

Serial number : **887DR**
Calibrated on : 22-Sep-08
M : 21.4270
B : -1.2856
Path length : 0.250

12) A/D voltage 6, Free

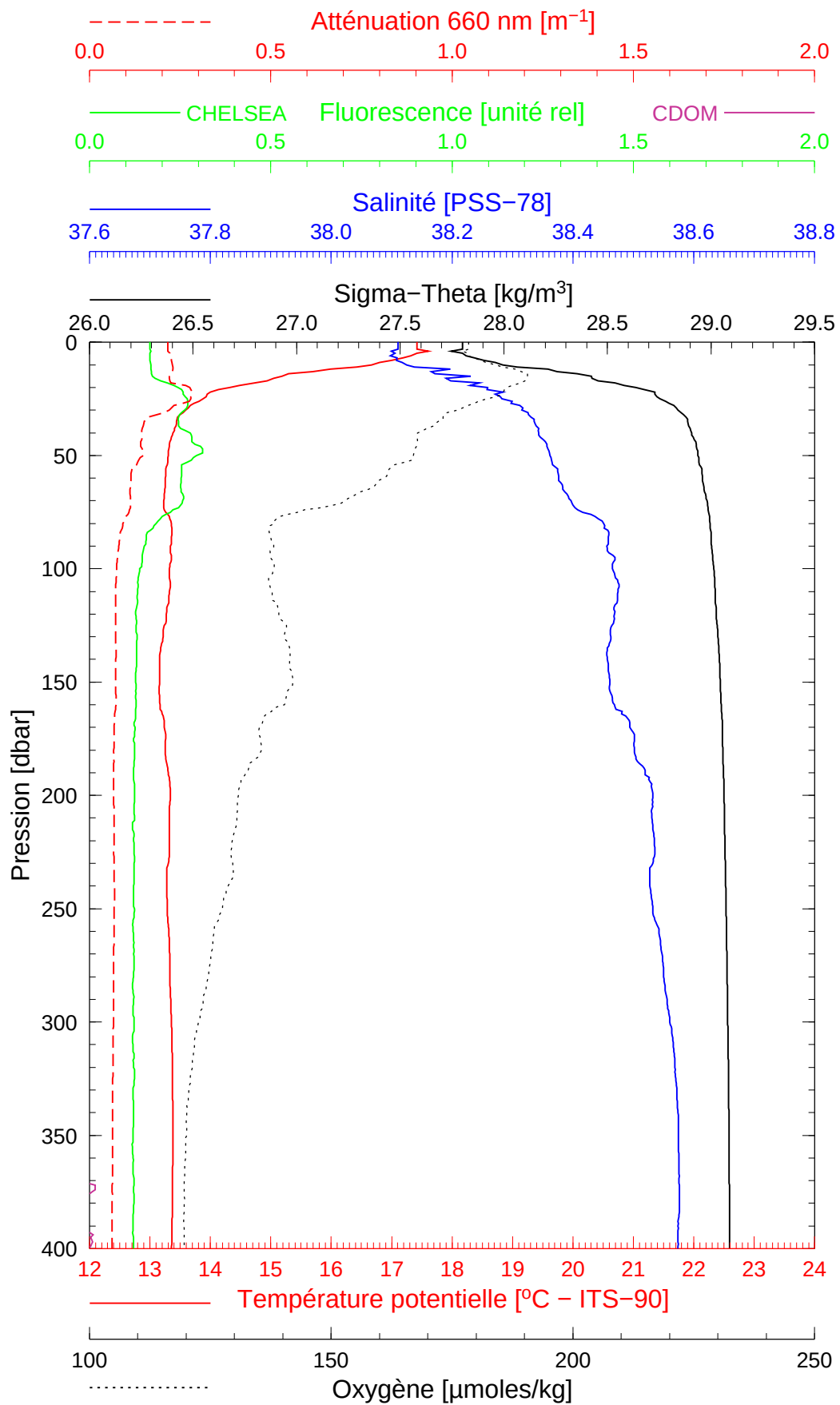
13) A/D voltage 7, Free

BOUSSOLE 87

17/05/2009

BOUS090517_02

BOUS002



Date 17/05/2009
Heure déb 12h 08min [TU]

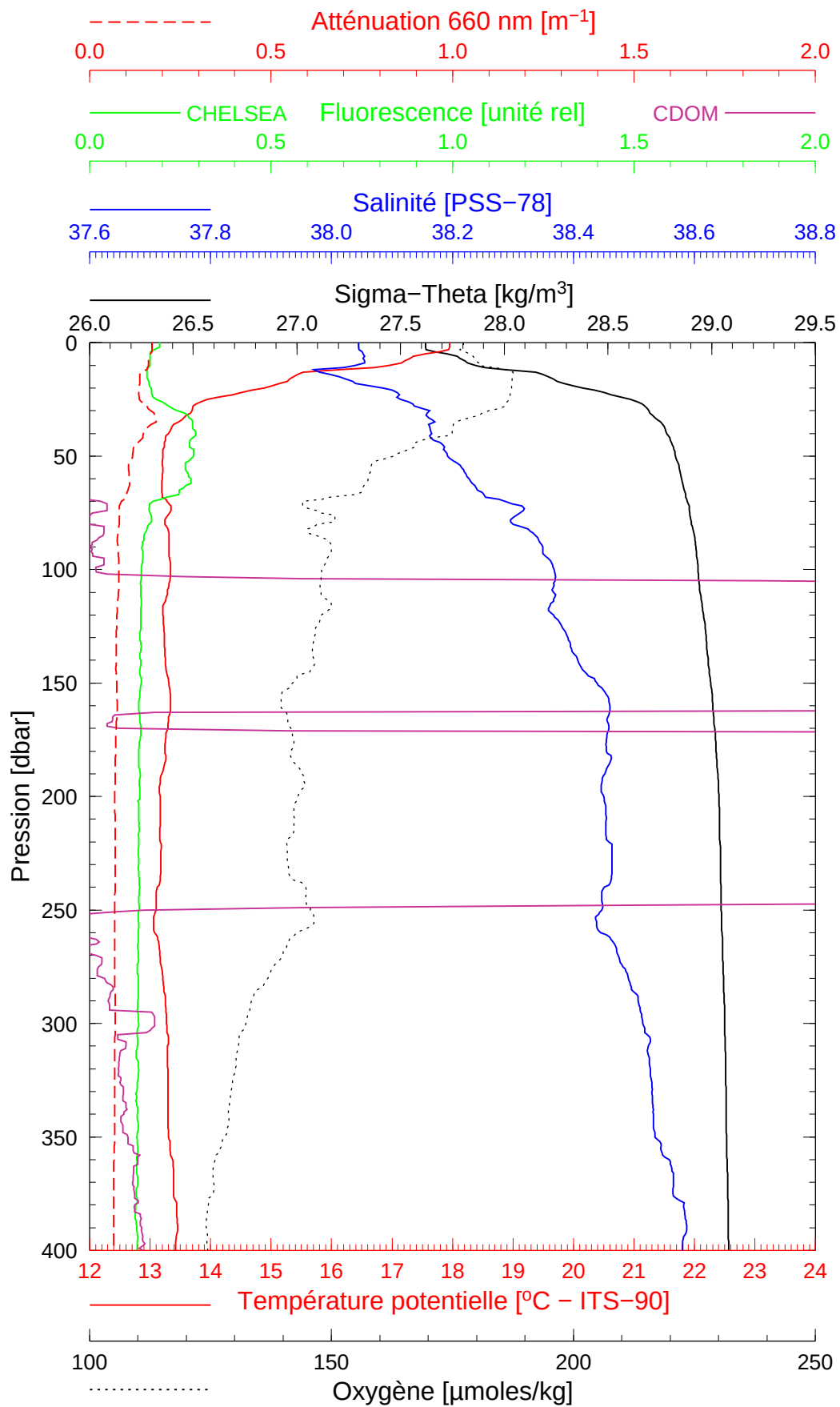
Latitude $43^{\circ}25.457$
Longitude $07^{\circ}46.646$

BOUSSOLE 87

17/05/2009

BOUS090517_03

BOUS003



Date 17/05/2009
Heure déb 12h 08min [TU]

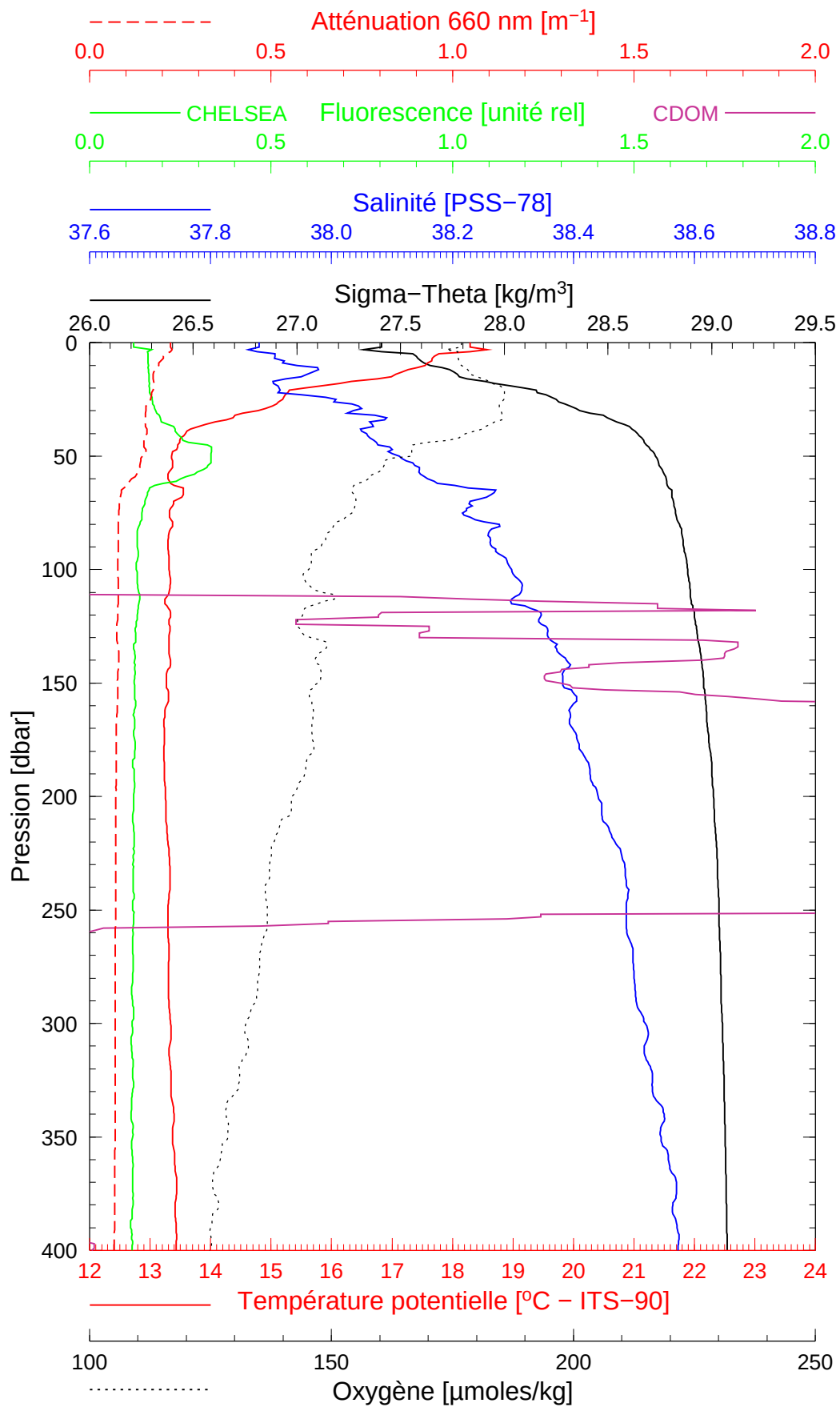
Latitude 43°25.457
Longitude 07°46.646

BOUSSOLE 87

17/05/2009

BOUS090517_04

BOUS004



Date 17/05/2009
Heure déb 15h 06min [TU]

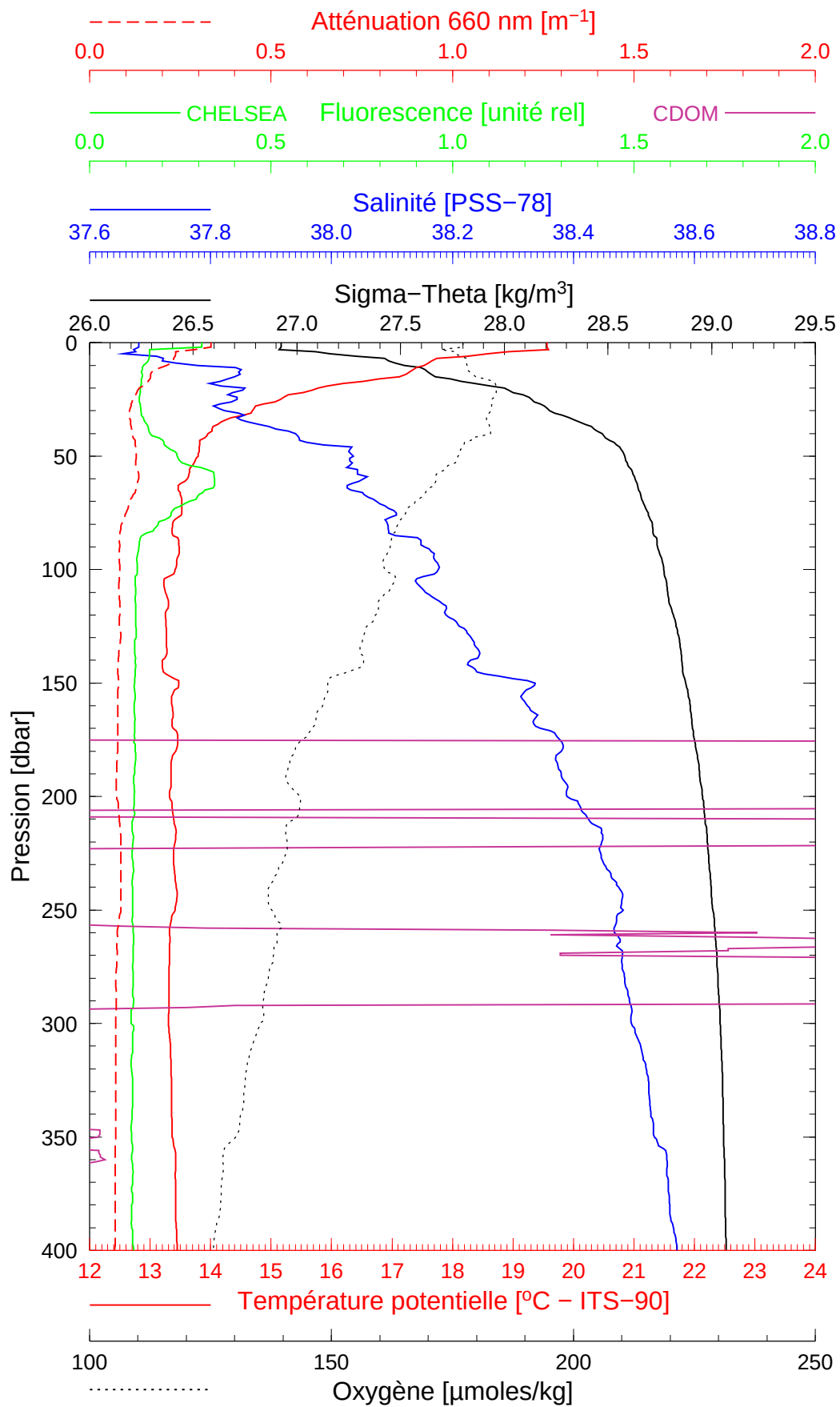
Latitude 43°27.942
Longitude 07°41.970

BOUSSOLE 87

17/05/2009

BOUS090517_05

BOUS005



Date 17/05/2009
Heure déb 16h 05min [TU]

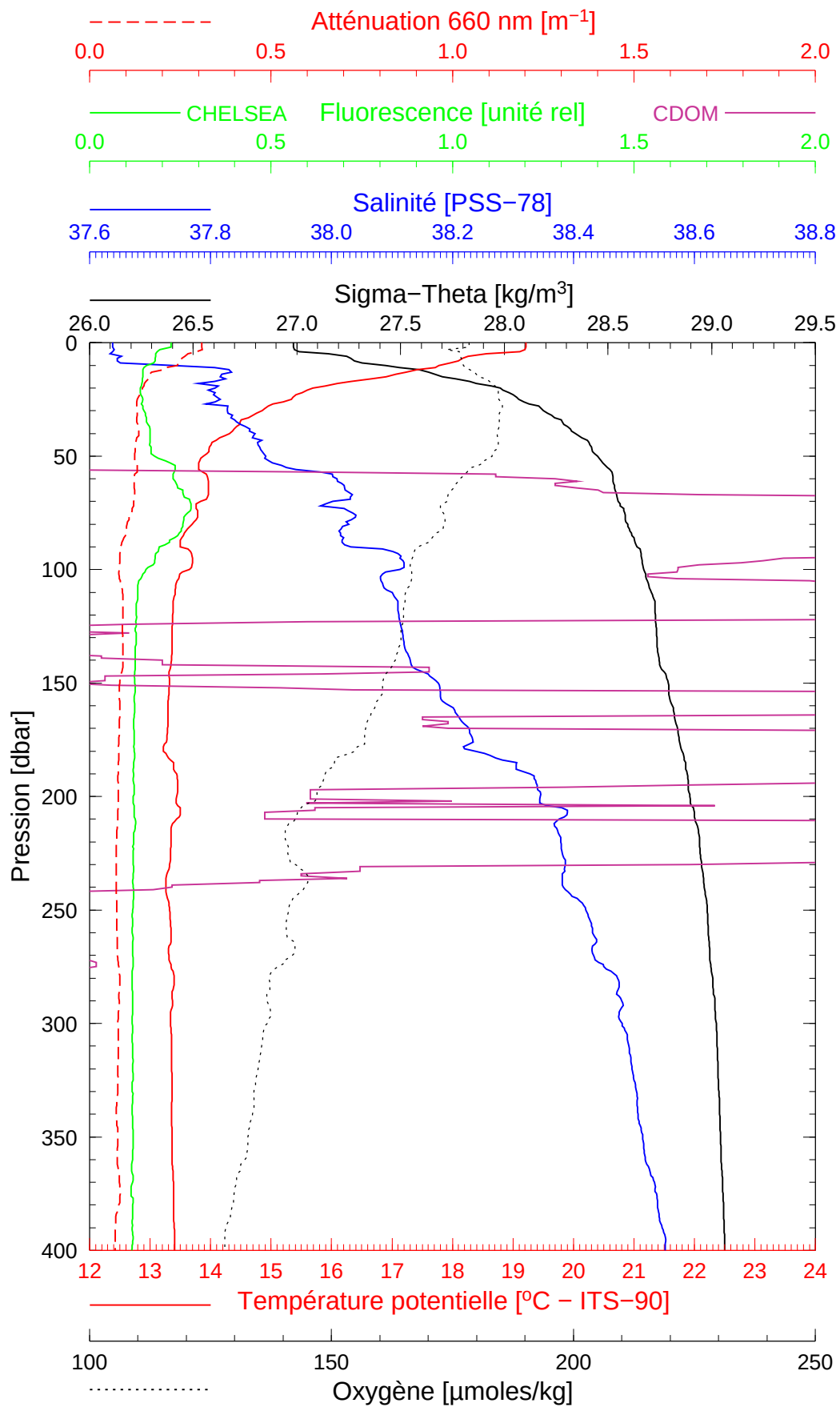
Latitude 43°31.052
Longitude 07°36.928

BOUSSOLE 87

17/05/2009

BOUS090517_06

BOUS006



Date 17/05/2009
Heure déb 16h 58min [TU]

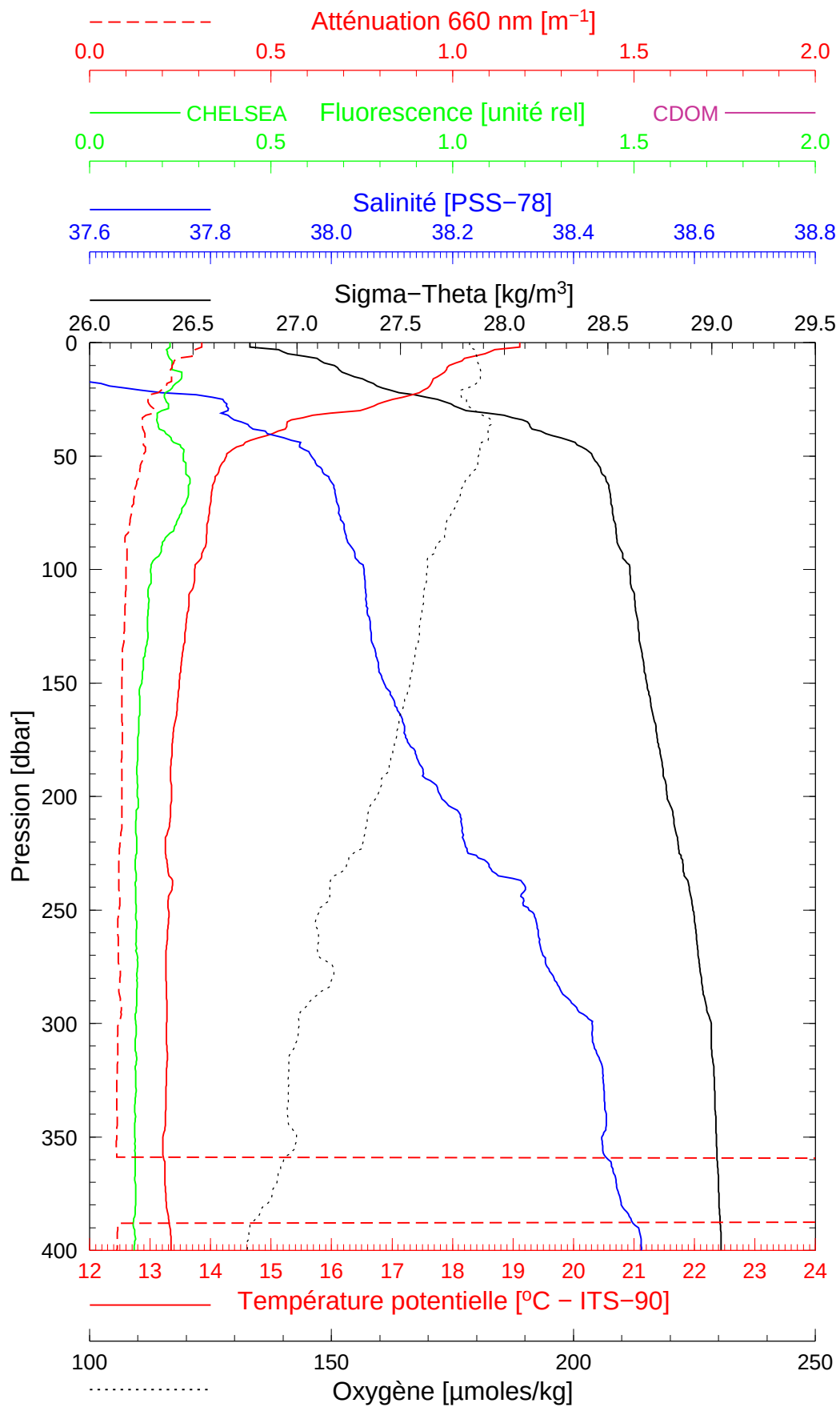
Latitude 43°33.987
Longitude 07°30.967

BOUSSOLE 87

17/05/2009

BOUS090517_07

BOUS007



Date 17/05/2009
Heure déb 18h 01min [TU]

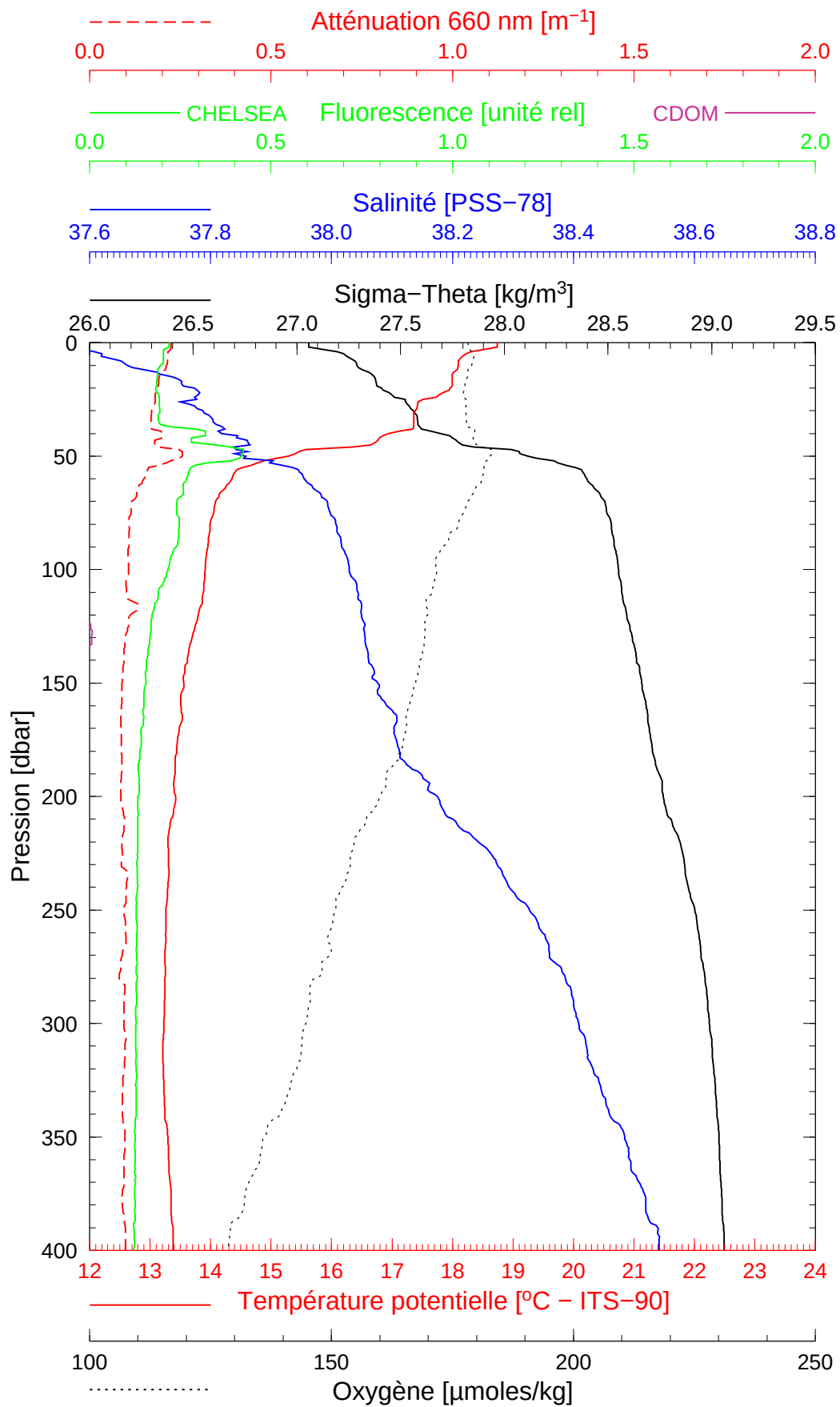
Latitude 43°37.062
Longitude 07°24.983

BOUSOLE 87

17/05/2009

BOUS090517_08

BOUS008



Date 17/05/2009
Heure déb 18h 53min [TU]

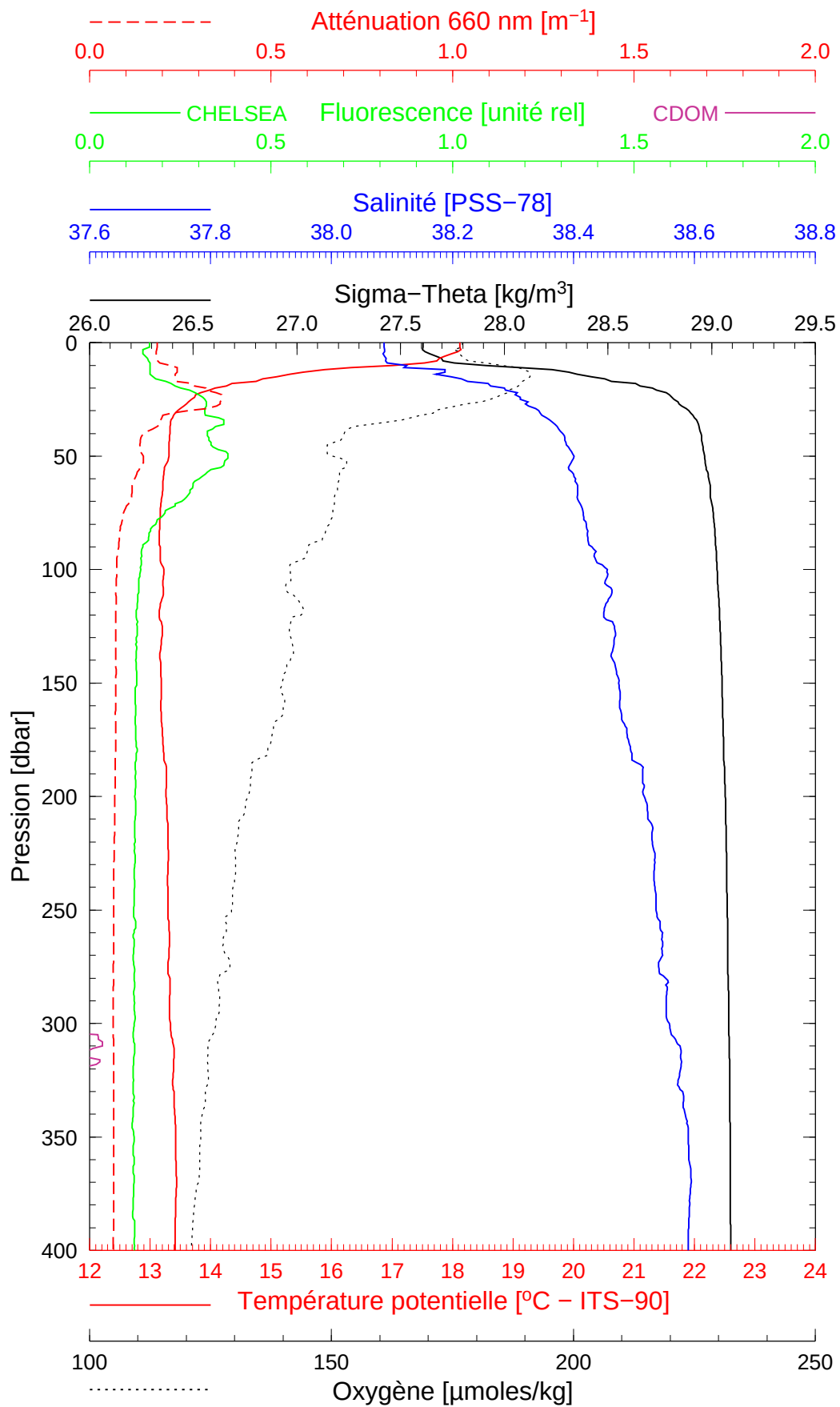
Latitude 43°39.050
Longitude 07°20.939

BOUSSOLE 87

18/05/2009

BOUS090518_01

BOUS009



Date 18/05/2009
Heure déb 13h 44min [TU]

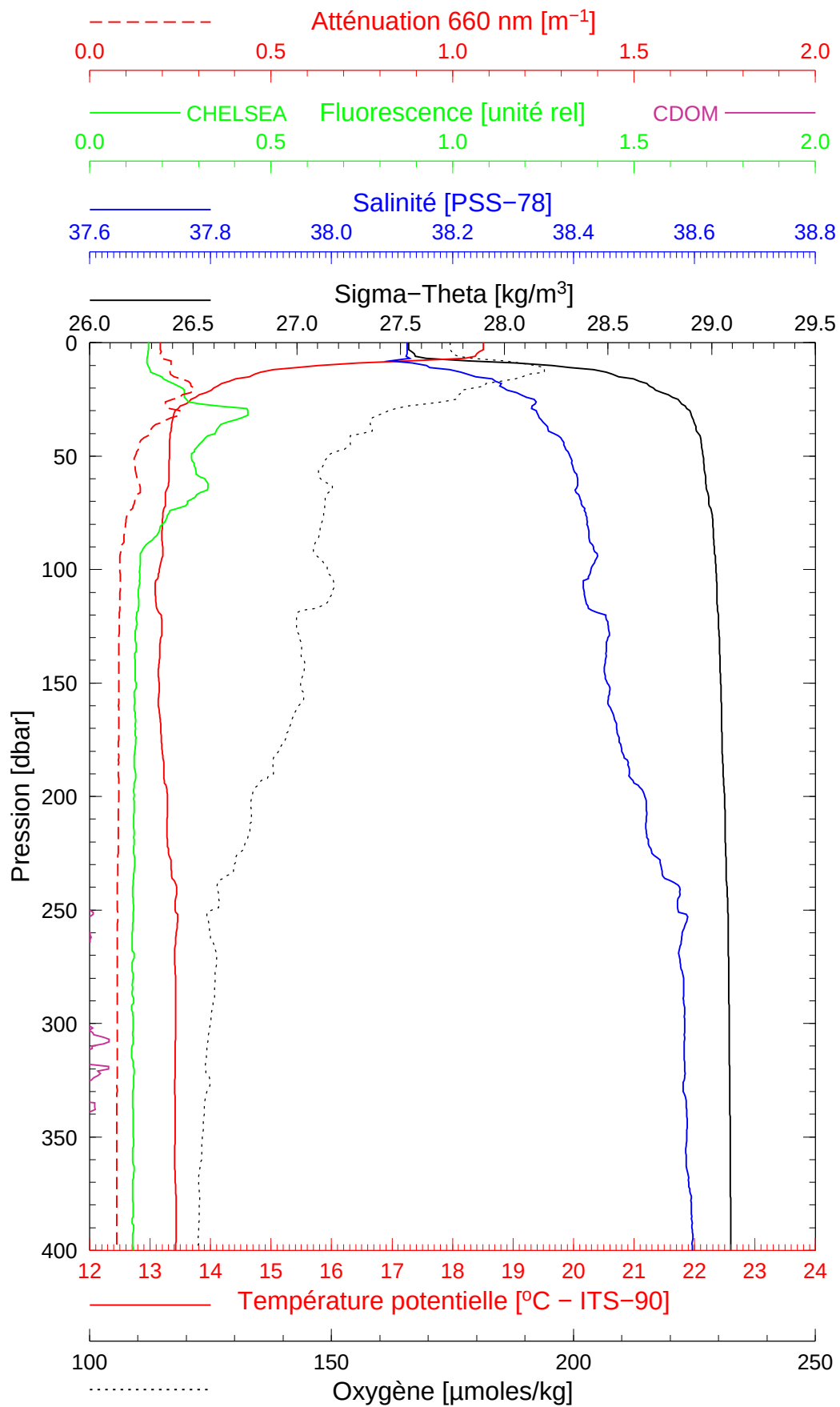
Latitude 43°21.876
Longitude 07°54.079

BOUSSOLE 87

19/05/2009

BOUS090519_01

BOUS010



Date 19/05/2009
Heure déb 11h 14min [TU]

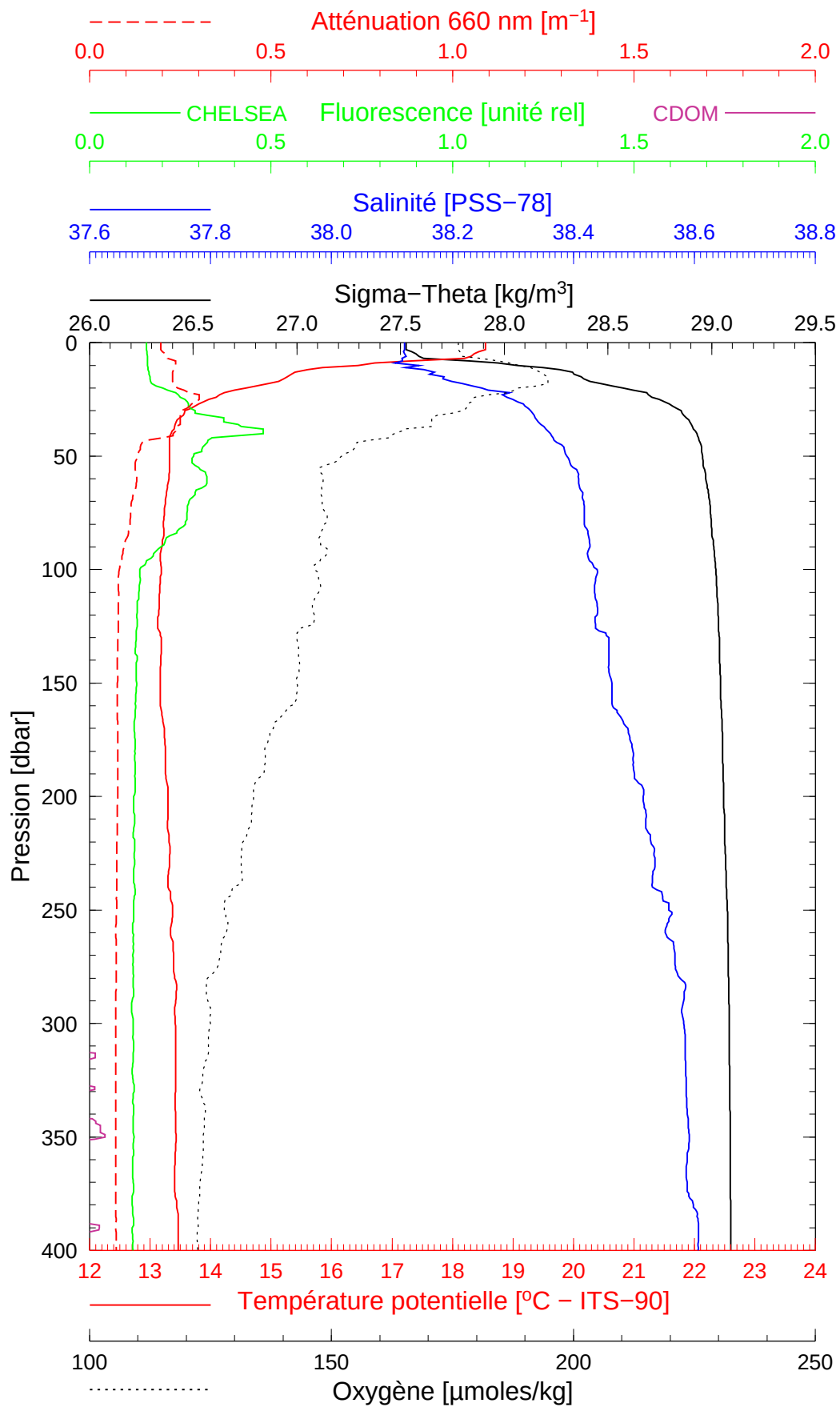
Latitude $43^{\circ}22.157$
Longitude $07^{\circ}53.117$

BOUSSOLE 87

19/05/2009

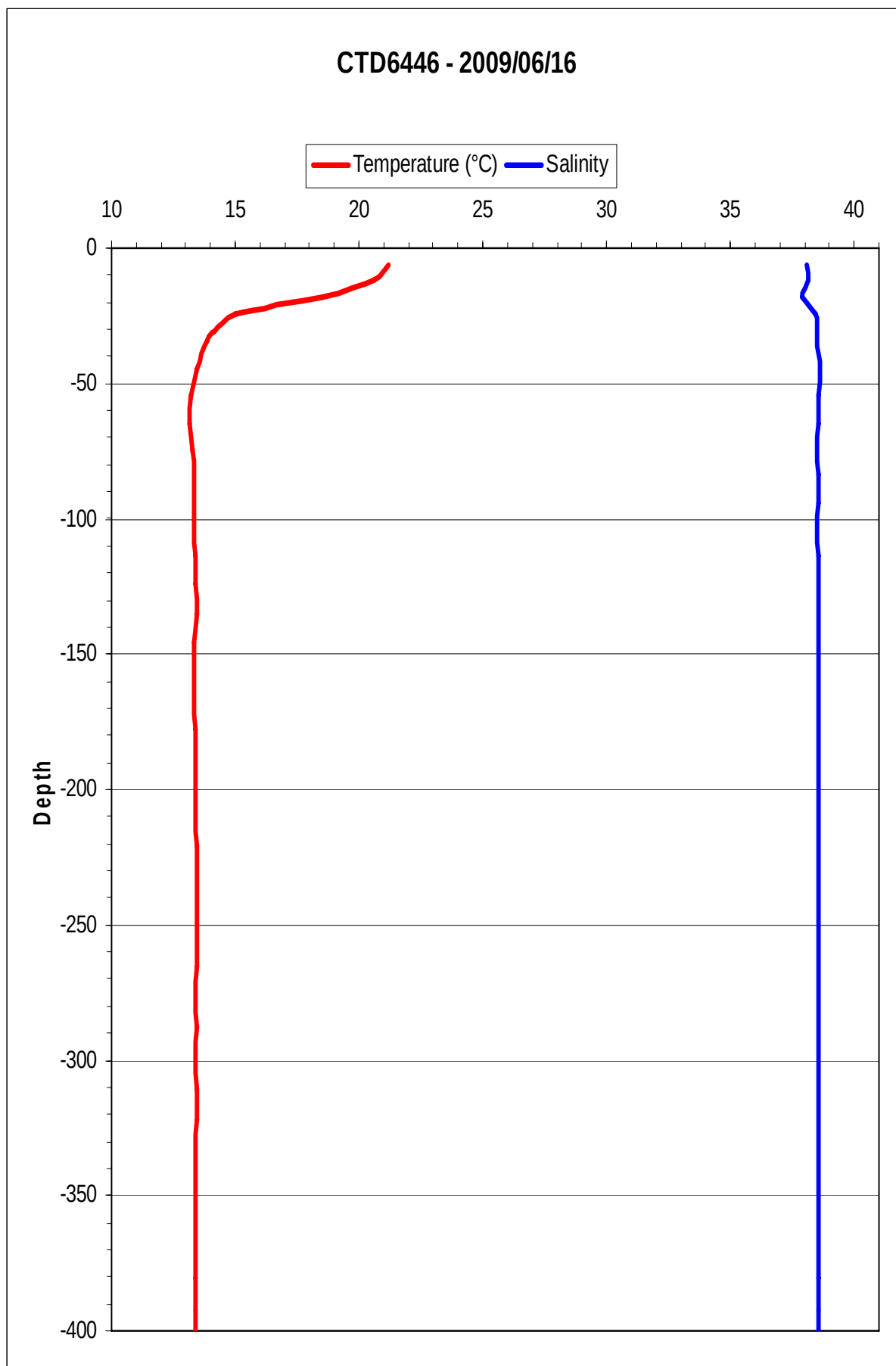
BOUS090519_02

BOUS011



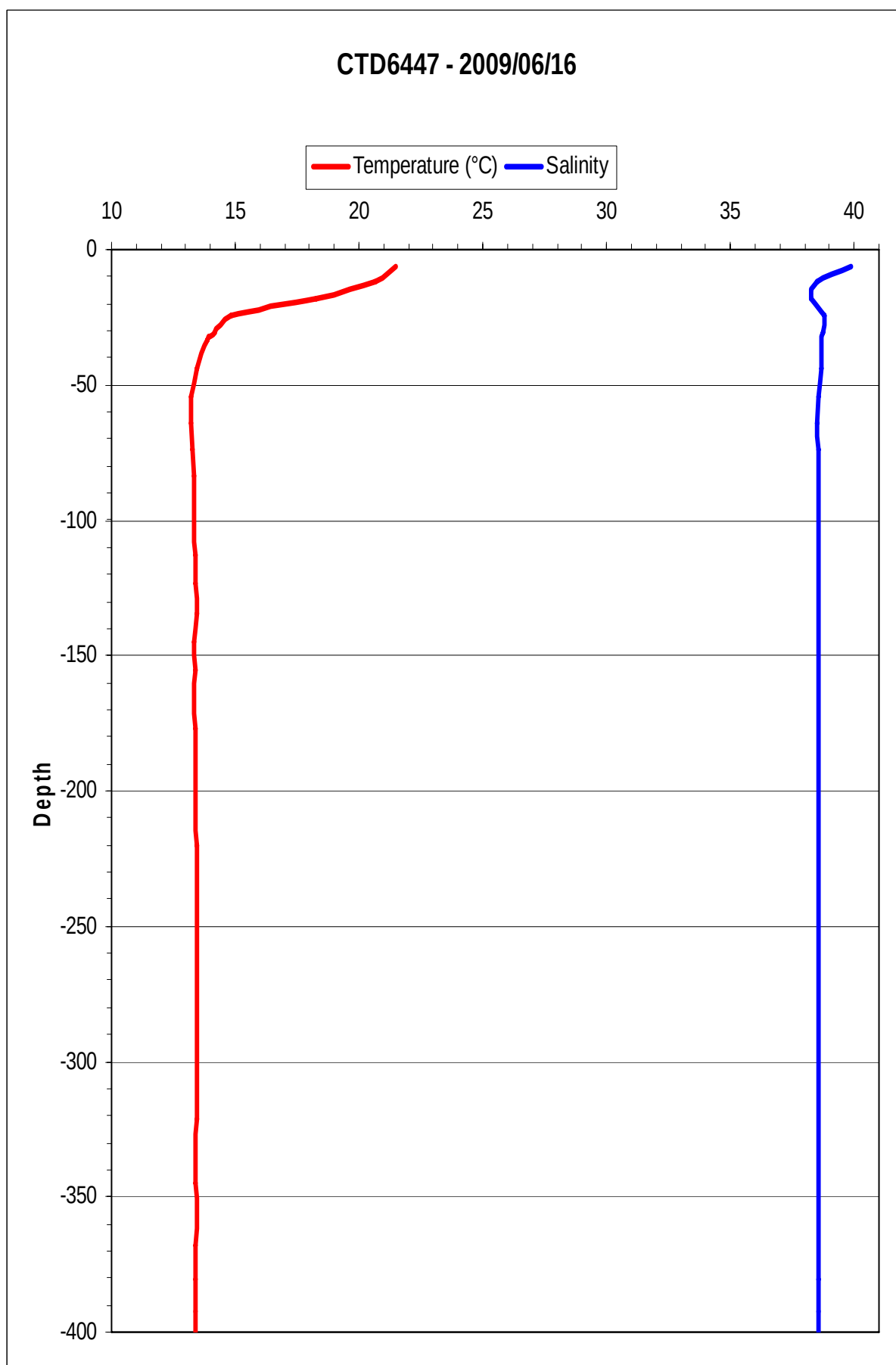
Date 19/05/2009
Heure déb 14h 06min [TU]

Latitude 43°22.039
Longitude 07°53.843



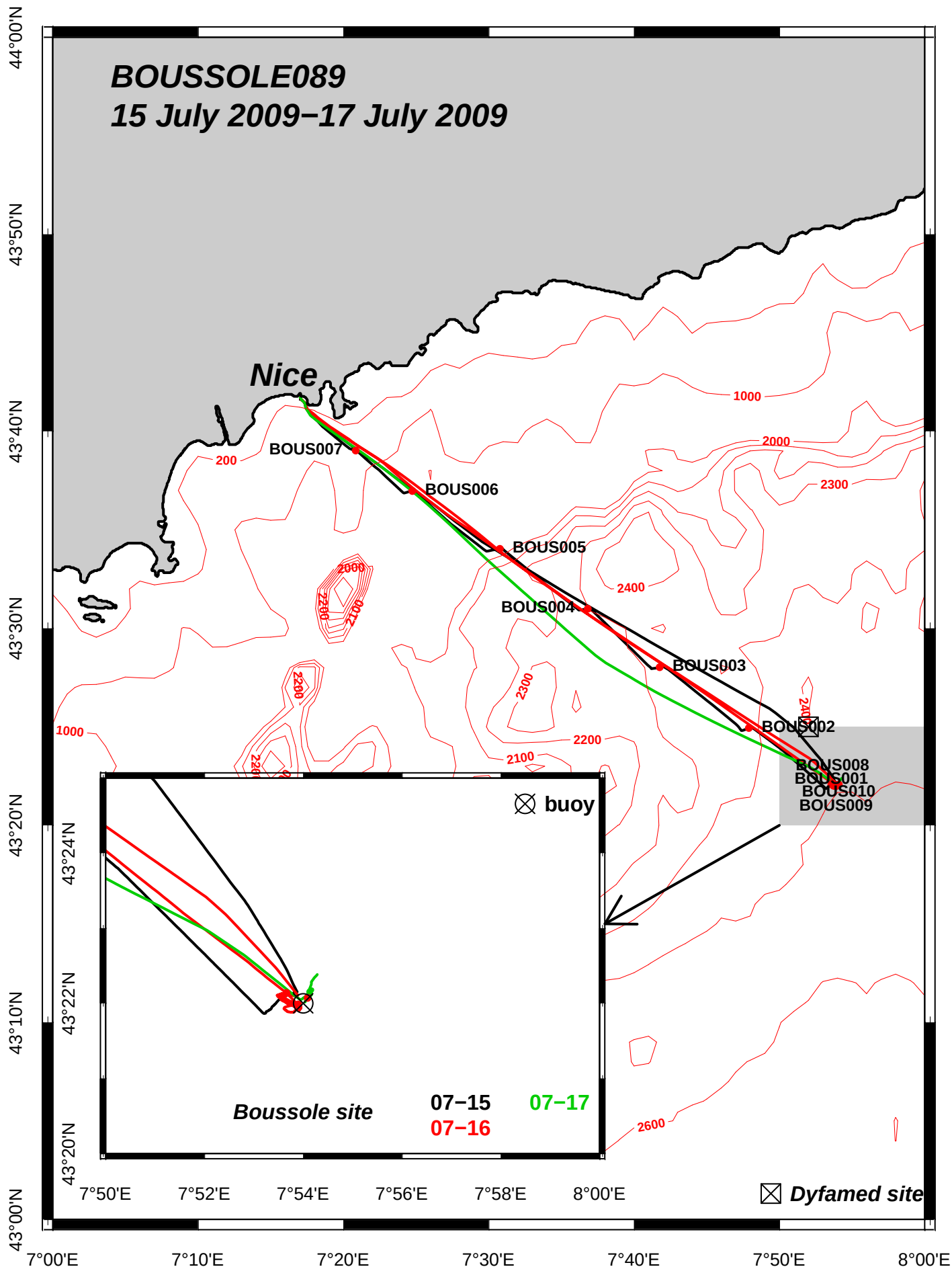
Date: 16/06/2009
Start: 09:30 [UTC]

Latitude: 43°22.163'N
Longitude: 07°54.027'E



Date: 16/06/2009
Start: 09:30 [UTC]

Latitude: 43°22.163'N
Longitude: 07°54.027'E

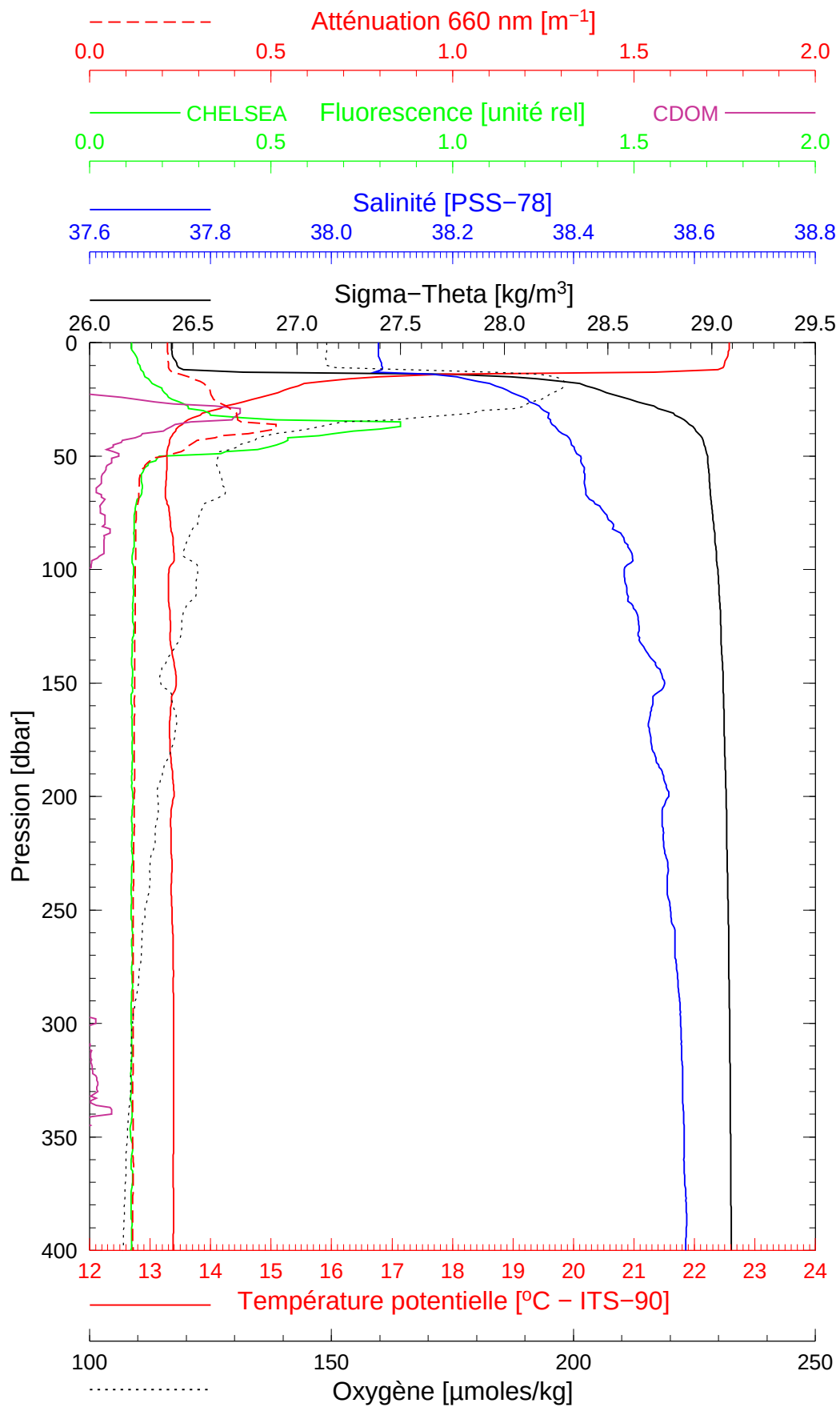


BOUSSOLE 89

15/07/2009

BOUS090715_01

BOUS001



Date 15/07/2009
Heure déb 12h 40min [TU]

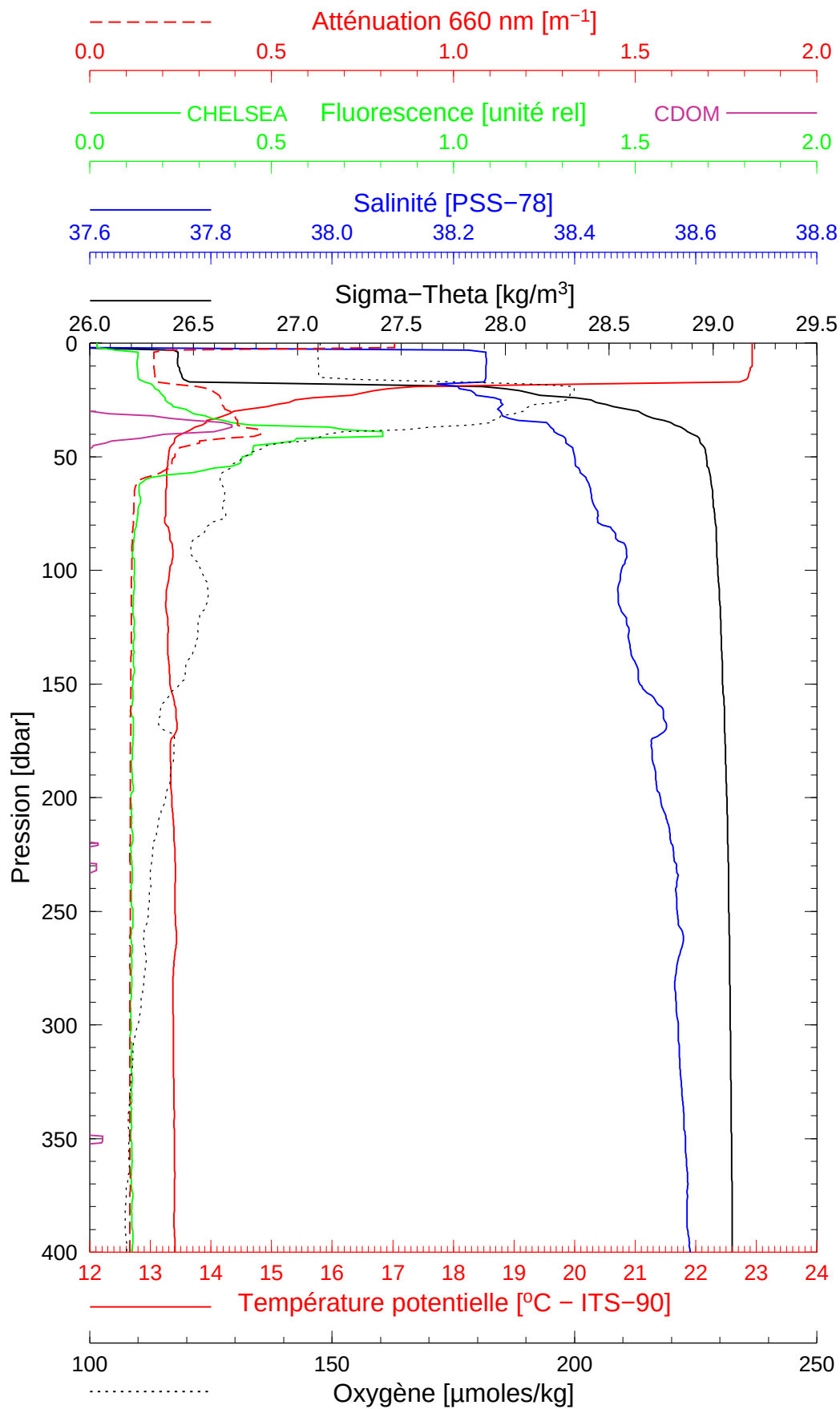
Latitude 43°22.078
Longitude 07°53.582

BOUSSOLE 89

15/07/2009

BOUS090715_02

BOUS002



Date 15/07/2009
Heure déb 13h 54min [TU]

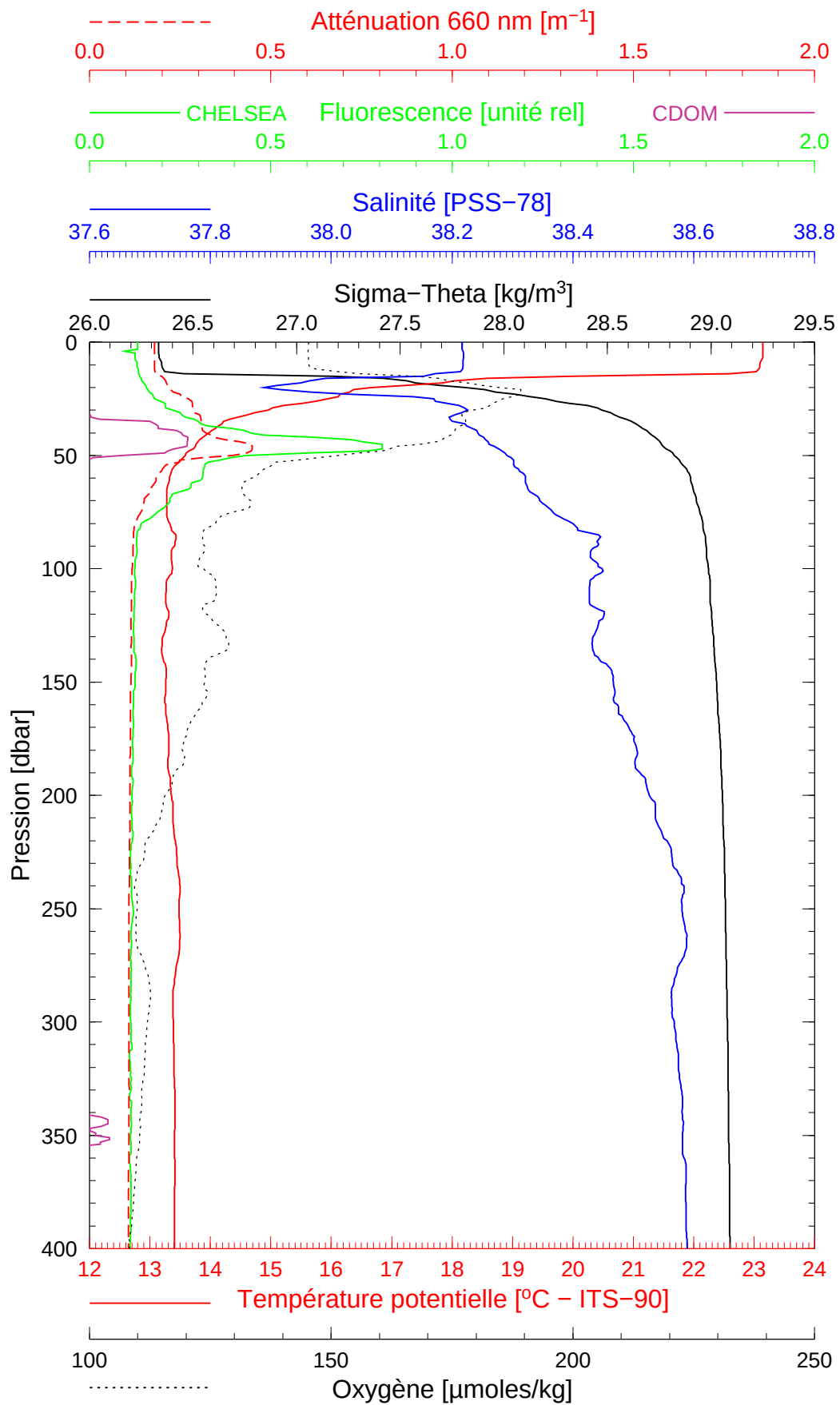
Latitude 43°24.941
Longitude 07°47.901

BOUSSOLE 89

15/07/2009

BOUS090715_03

BOUS003



Date 15/07/2009
Heure déb 14h 57min [TU]

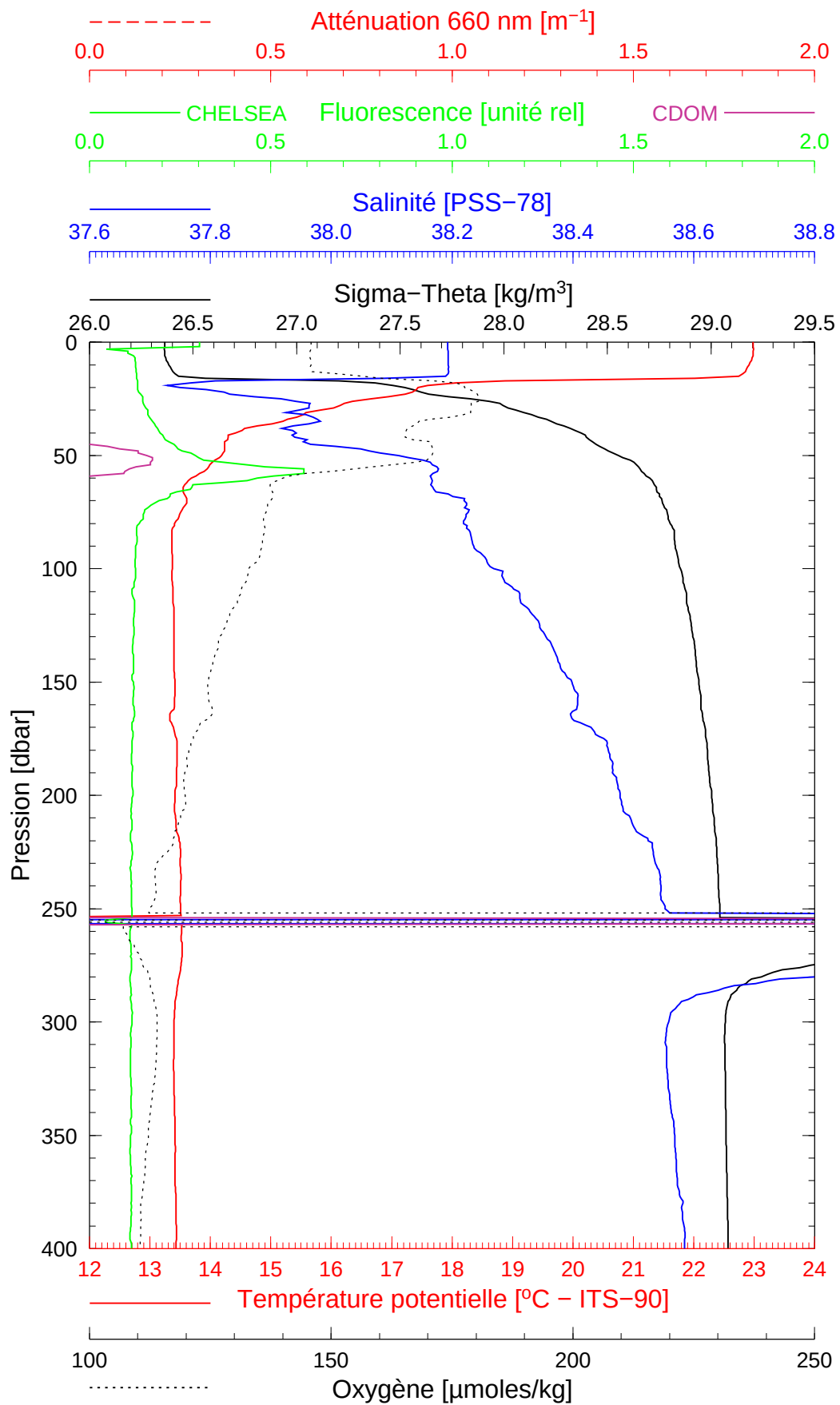
Latitude $43^{\circ}28.026$
Longitude $07^{\circ}41.764$

BOUSSOLE 89

15/07/2009

BOUS090715_04

BOUS004



Date 15/07/2009
Heure déb 15h 47min [TU]

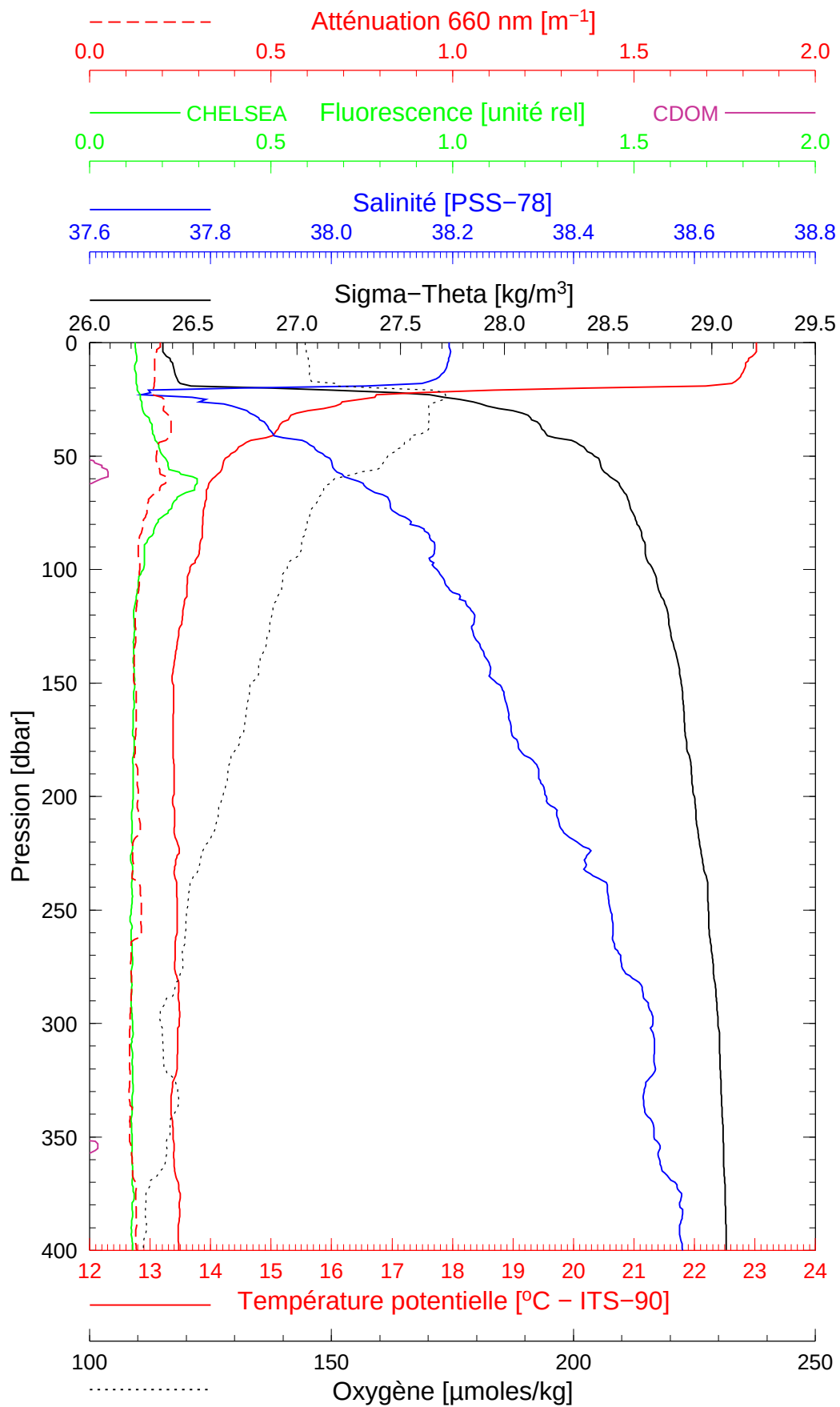
Latitude $43^{\circ}30.992$
Longitude $07^{\circ}36.817$

BOUSSOLE 89

15/07/2009

BOUS090715_05

BOUS005



Date 15/07/2009
Heure déb 16h 39min [TU]

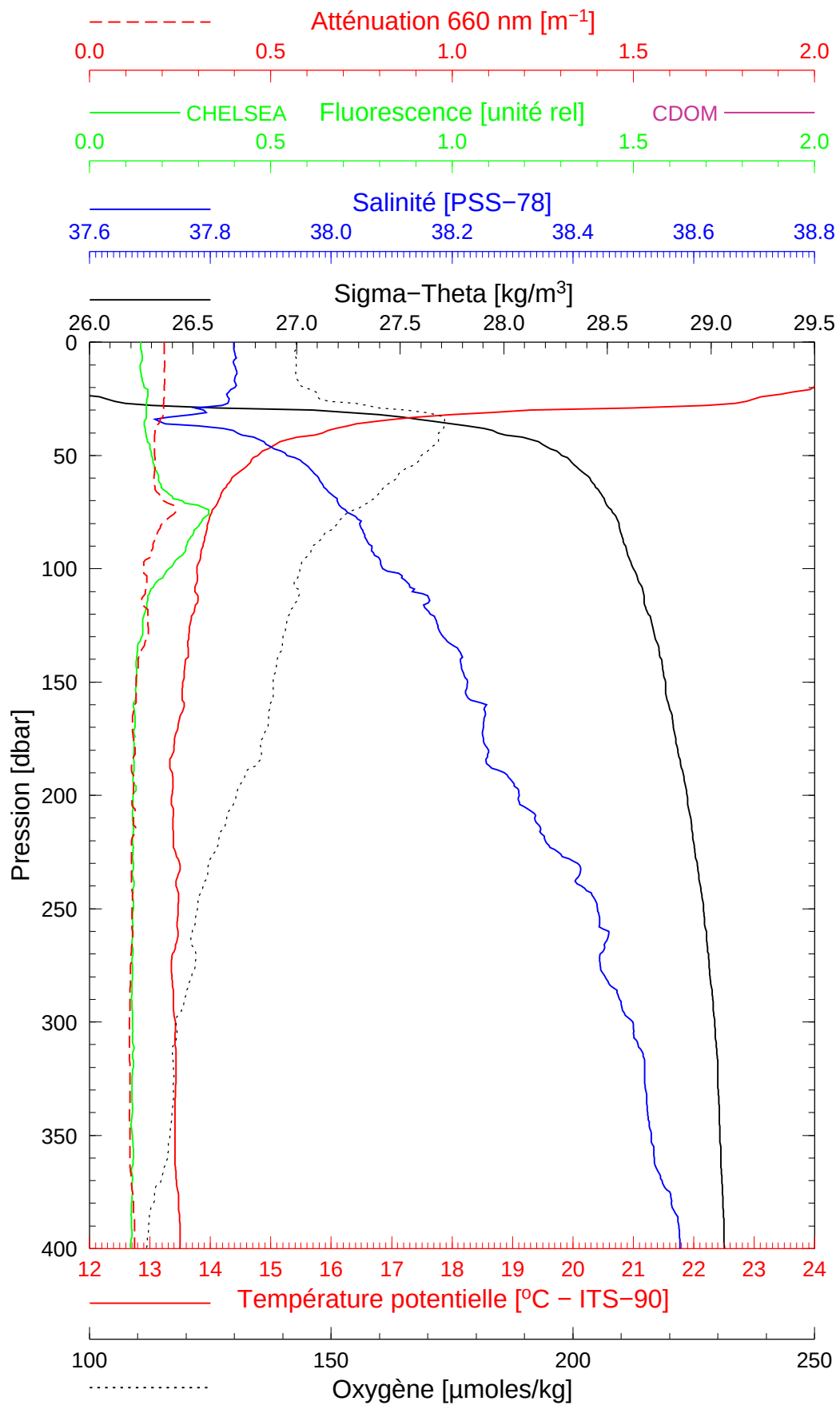
Latitude 43°34.034
Longitude 07°30.767

BOUSSOLE 89

15/07/2009

BOUS090715_06

BOUS006



Date 15/07/2009
Heure déb 17h 43min [TU]

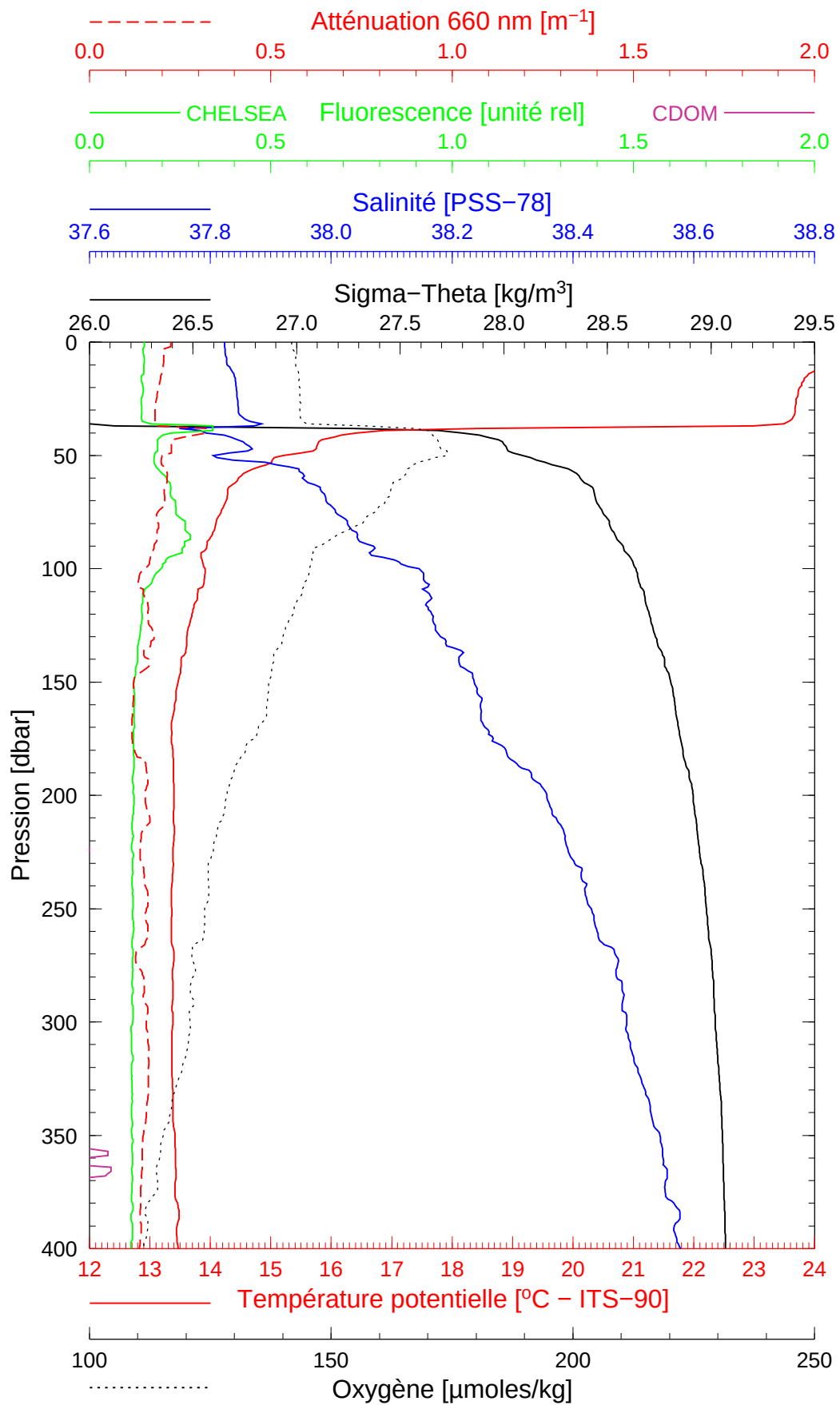
Latitude 43°36.970
Longitude 07°24.746

BOUSSOLE 89

15/07/2009

BOUS090715_07

BOUS007



Date 15/07/2009
Heure déb 18h 29min [TU]

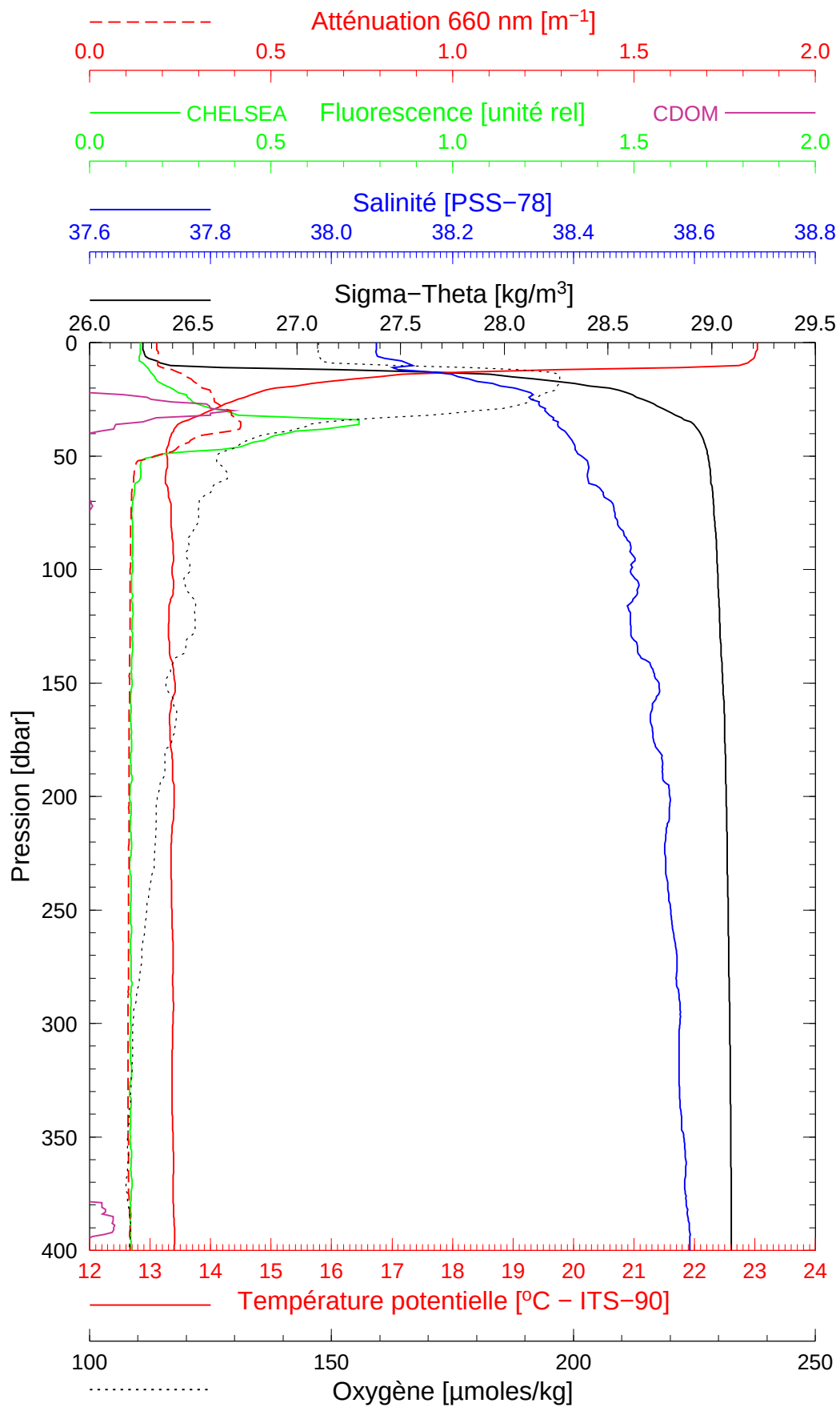
Latitude 43°39.024
Longitude 07°20.850

BOUSSOLE 89

16/07/2009

BOUS090716_01

BOUS008



Date 16/07/2009
Heure déb 10h 09min [TU]

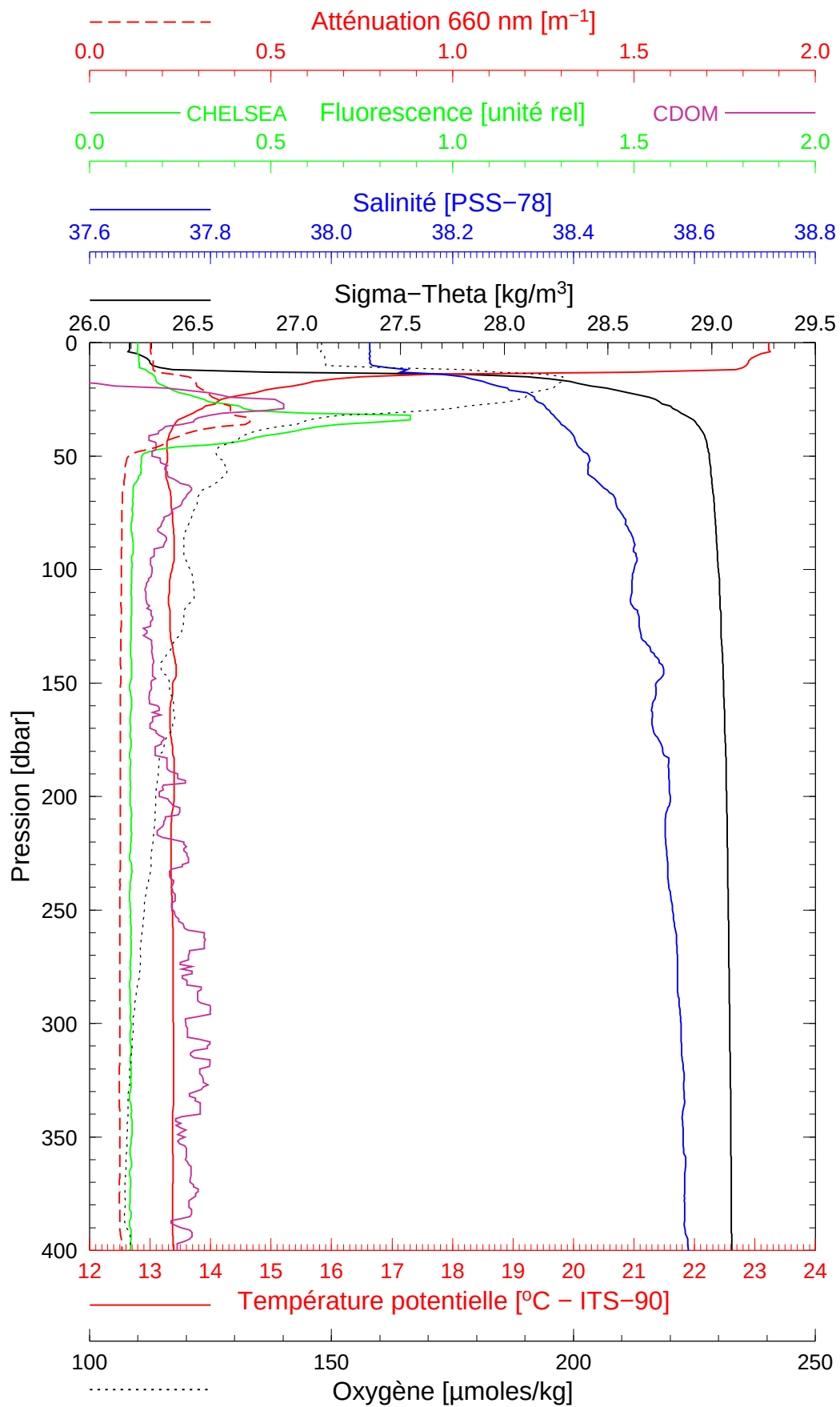
Latitude 43°22.138
Longitude 07°53.662

BOUSSOLE 89

16/07/2009

BOUS090716_02

BOUS009



Date 16/07/2009
Heure déb 13h 33min [TU]

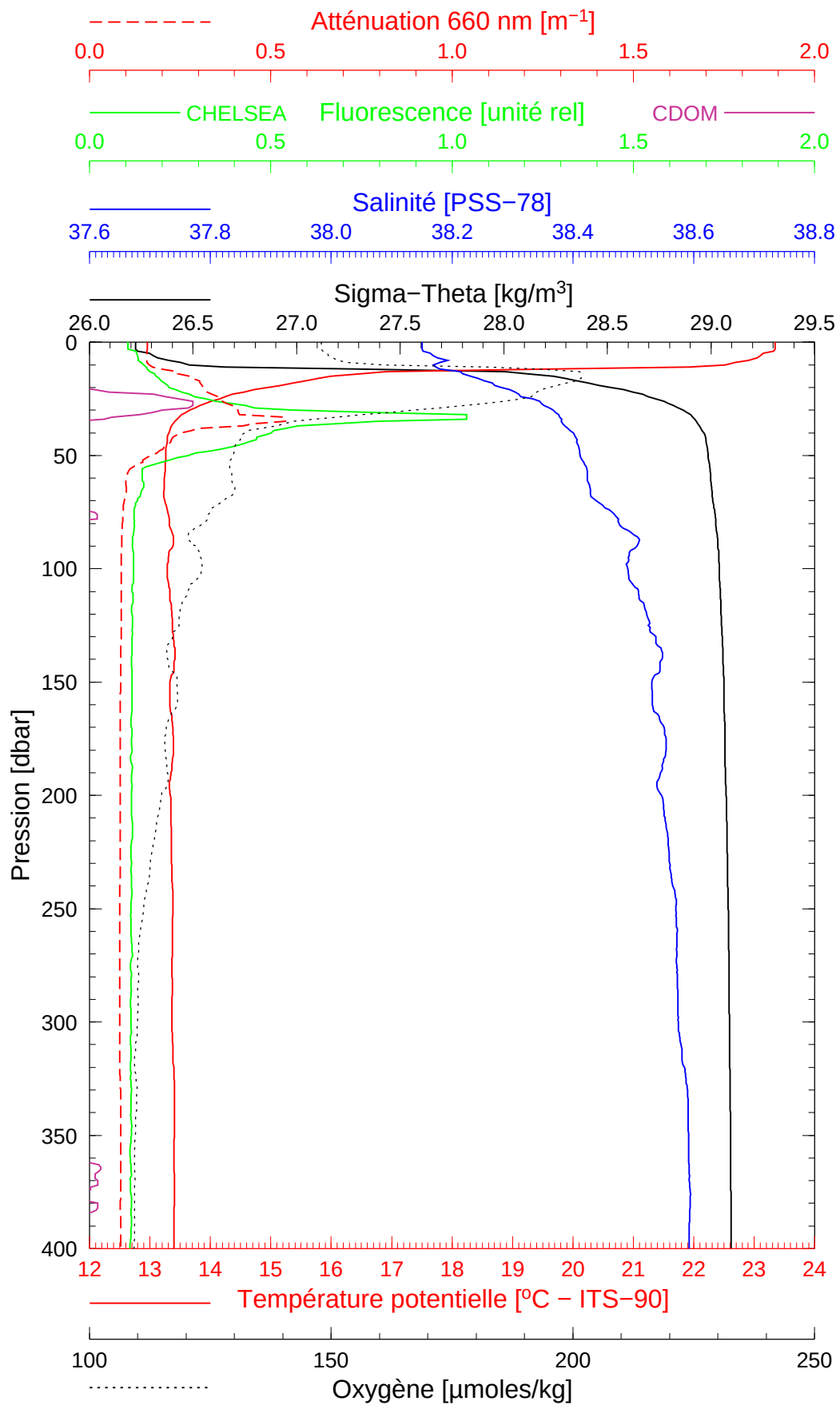
Latitude $43^{\circ}21.986$
Longitude $07^{\circ}53.899$

BOUSSOLE 89

17/07/2009

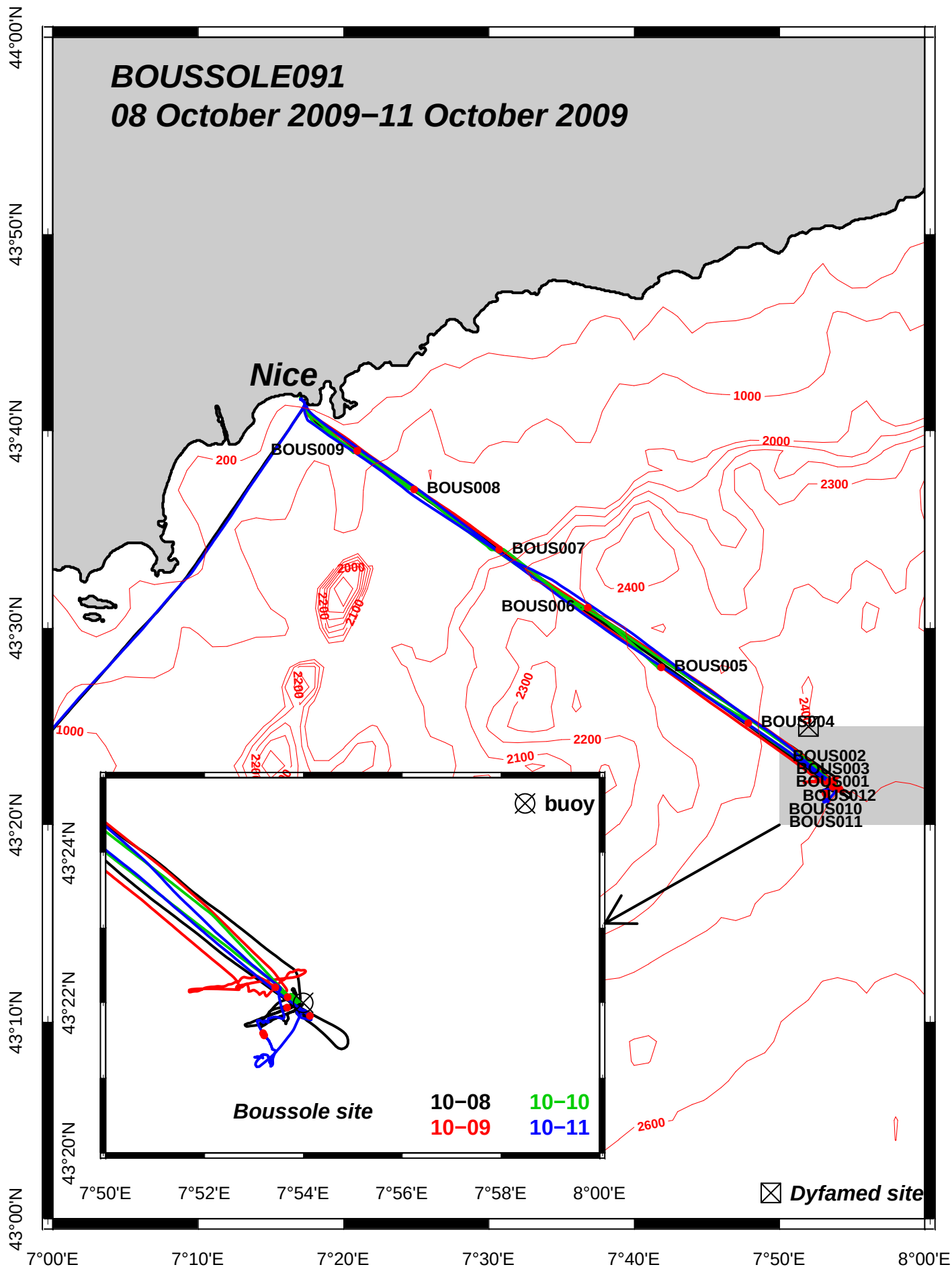
BOUS090717_01

BOUS010



Date 17/07/2009
Heure déb 11h 17min [TU]

Latitude 43°22.073
Longitude 07°54.089



Instrument configuration file: **C:\boussole\2009\200910\ctd\boussole_oct2009.con**

Configuration report for SBE 911plus/917plus CTD

Frequency channels suppressed : 0
Voltage words suppressed : 0
Computer interface : RS-232C
Scans to average : 1
NMEA position data added : No
NMEA depth data added : No
NMEA time added : No
Surface PAR voltage added : No
Scan time added : No

1) Frequency 0, **Temperature**

Serial number : **1378**
Calibrated on : 05-Sep-08
G : 4.87113984e-003
H : 6.79469483e-004
I : 2.72588409e-005
J : 2.18859819e-006
F0 : 1000.000
Slope : 1.00000000
Offset : 0.0000

2) Frequency 1, **Conductivity**

Serial number : **2929**
Calibrated on : 22-Aug-08
G : -1.06100220e+001
H : 1.42248535e+000
I : 3.69106162e-005
J : 5.90824323e-005
CTcor : 3.2500e-006
CPcor : -9.57000000e-008
Slope : 1.00000000
Offset : 0.00000

3) Frequency 2, **Pressure, Digiquartz with TC**

Serial number : **53981**
Calibrated on : 11-Jan-95
C1 : -4.499337e+004
C2 : 4.543683e-001
C3 : 1.505020e-002
D1 : 3.936600e-002
D2 : 0.000000e+000
T1 : 3.004660e+001
T2 : -1.897714e-004
T3 : 4.727060e-006
T4 : 1.923520e-009
T5 : 0.000000e+000
Slope : 0.99985000
Offset : 0.11430
AD590M : 1.138000e-002
AD590B : -8.189160e+000

4) Frequency 3, Free

5) Frequency 4, Free

6) A/D voltage 0, **Oxygen, SBE 43**

Serial number : **0378**
Calibrated on : 10-Oct-08p
Equation : Murphy-Larson
Coefficients for Owens-Millard:
Soc : 0.0000e+000
Boc : 0.0000
Offset : 0.0000
Tcor : 0.0000
Pcor : 0.00e+000
Tau : 0.0
Coefficients for Murphy-Larson:
Soc : 3.00900e-001
Offset : -6.62900e-001
A : -4.59880e-004
B : 1.98170e-004
C : -4.09020e-006
E : 3.60000e-002
Tau : 1.39000e+000

7) A/D voltage 1, Free

8) A/D voltage 2, **Fluorometer, Chelsea Aqua 3**

Serial number : **088193**
Calibrated on : 27-oct-97
VB : 0.165000
V1 : 1.933000
Vacetone : 0.250000
Scale factor : 1.000000
Slope : 1.000000
Offset : 0.000000

9) A/D voltage 3, Free

10) A/D voltage 4, **Fluorometer, Wetlab CDOM**

Serial number : **1095P**
Calibrated on : 09-Sep-09
Vblank : 0.059
Scale factor : 64.200

11) A/D voltage 5, **Transmissometer, Chelsea/Seatech/Wetlab CStar**

Serial number : **887DR**
Calibrated on : 09-Sep-09
M : 21.2992
B : -1.2566
Path length : 0.250

12) A/D voltage 6, Free

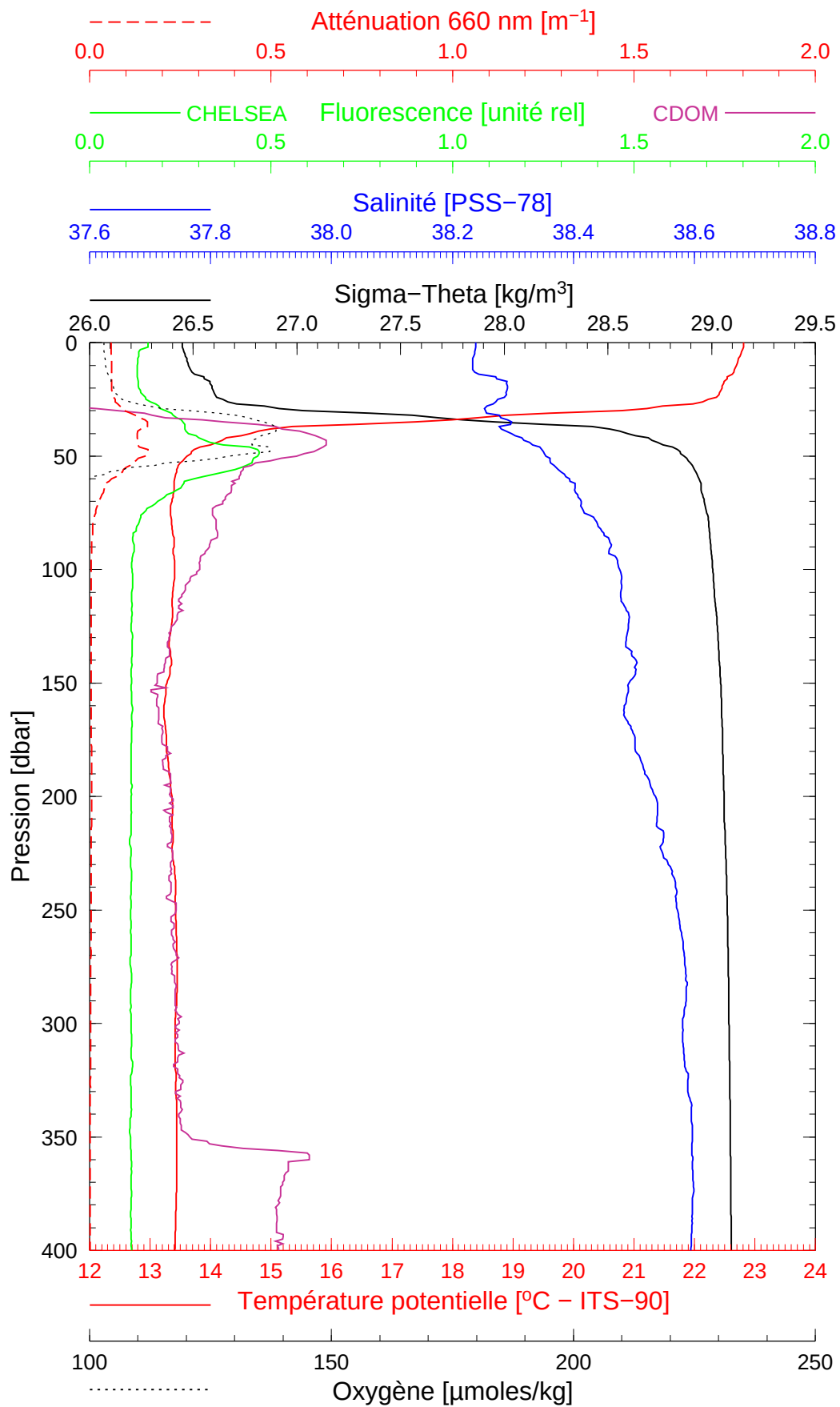
13) A/D voltage 7, Free

BOUSSOLE 91

08/10/2009

BOUS091008_01

BOUS001



Date 08/10/2009
Heure déb 12h 54min [TU]

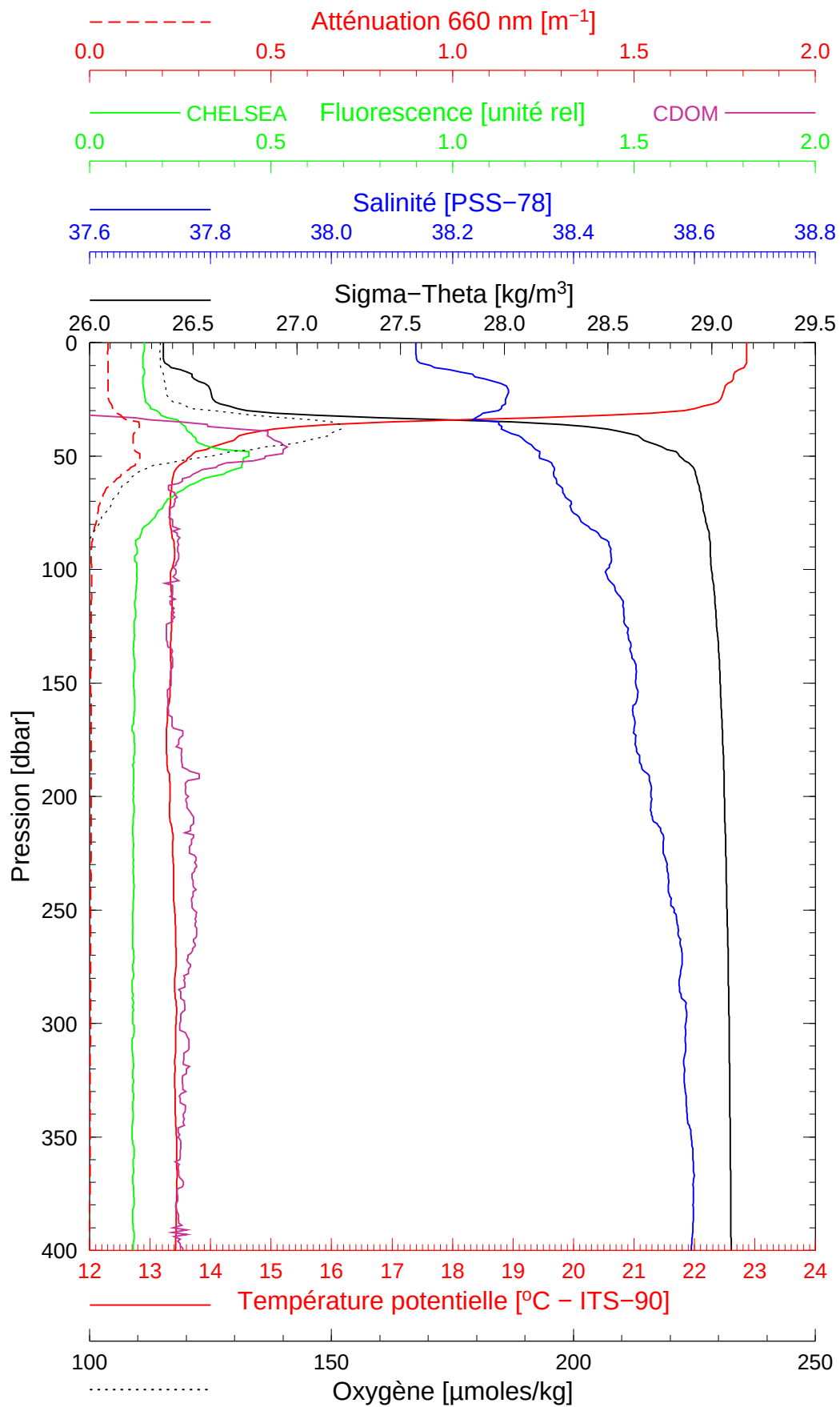
Latitude $43^{\circ}21.936$
Longitude $07^{\circ}53.673$

BOUSSOLE 91

09/10/2009

BOUS091009_01

BOUS002



Date 09/10/2009
Heure déb 07h 35min [TU]

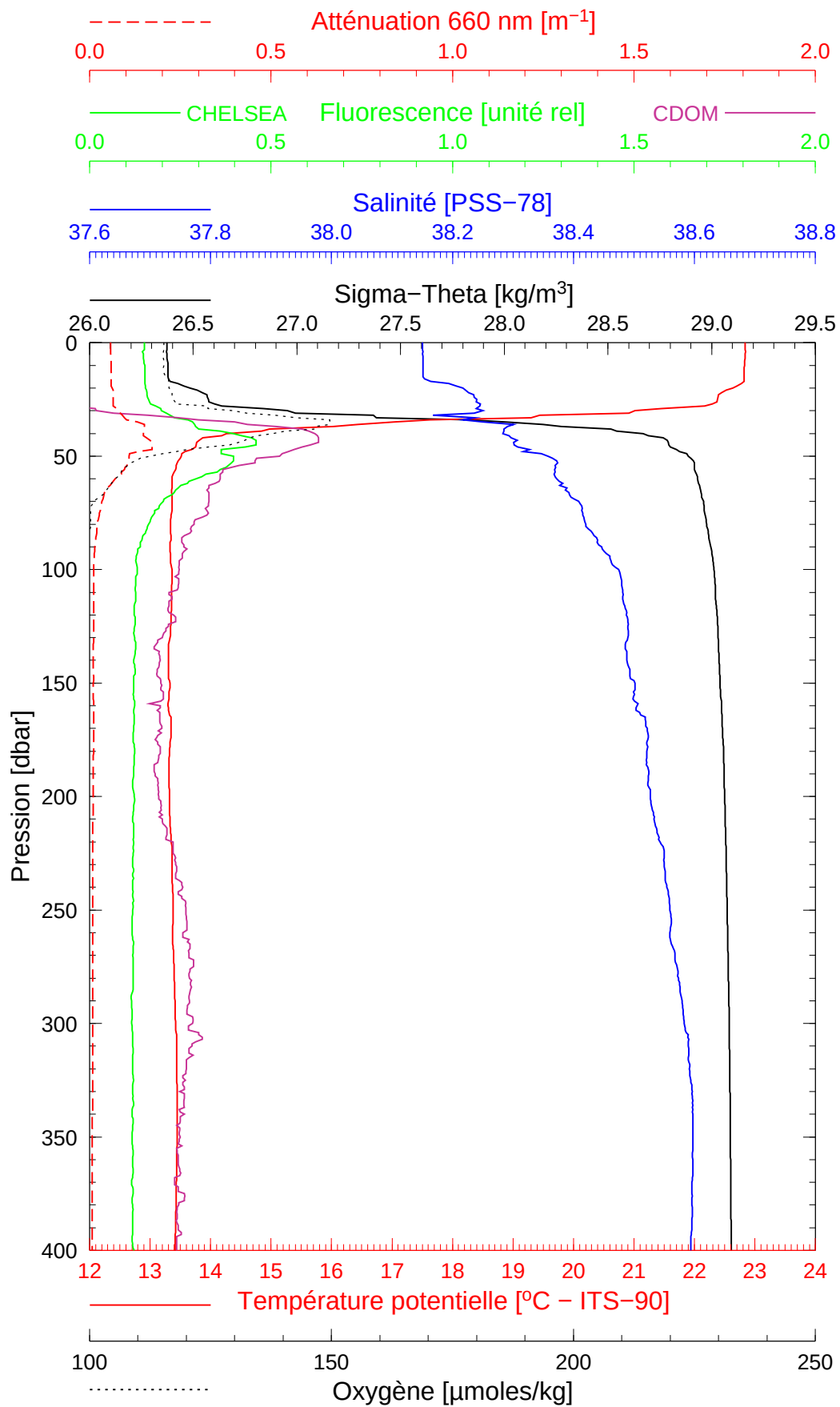
Latitude $43^{\circ}22.207$
Longitude $07^{\circ}53.435$

BOUSSOLE 91

10/10/2009

BOUS091010_01

BOUS003



Date 10/10/2009
Heure déb 09h 45min [TU]

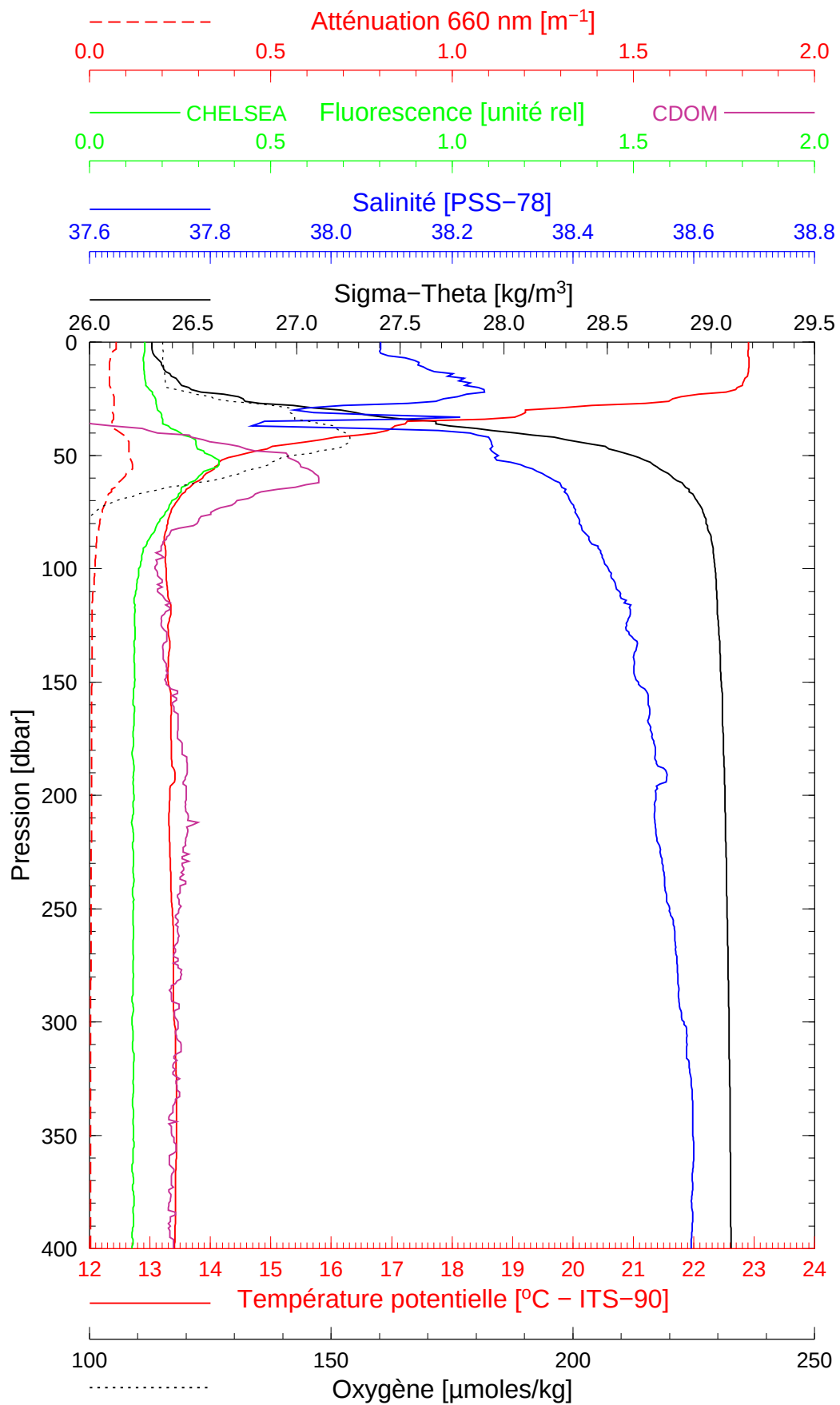
Latitude 43°22.076
Longitude 07°53.684

BOUSSOLE 91

10/10/2009

BOUS091010_02

BOUS004



Date 10/10/2009
Heure déb 11h 05min [TU]

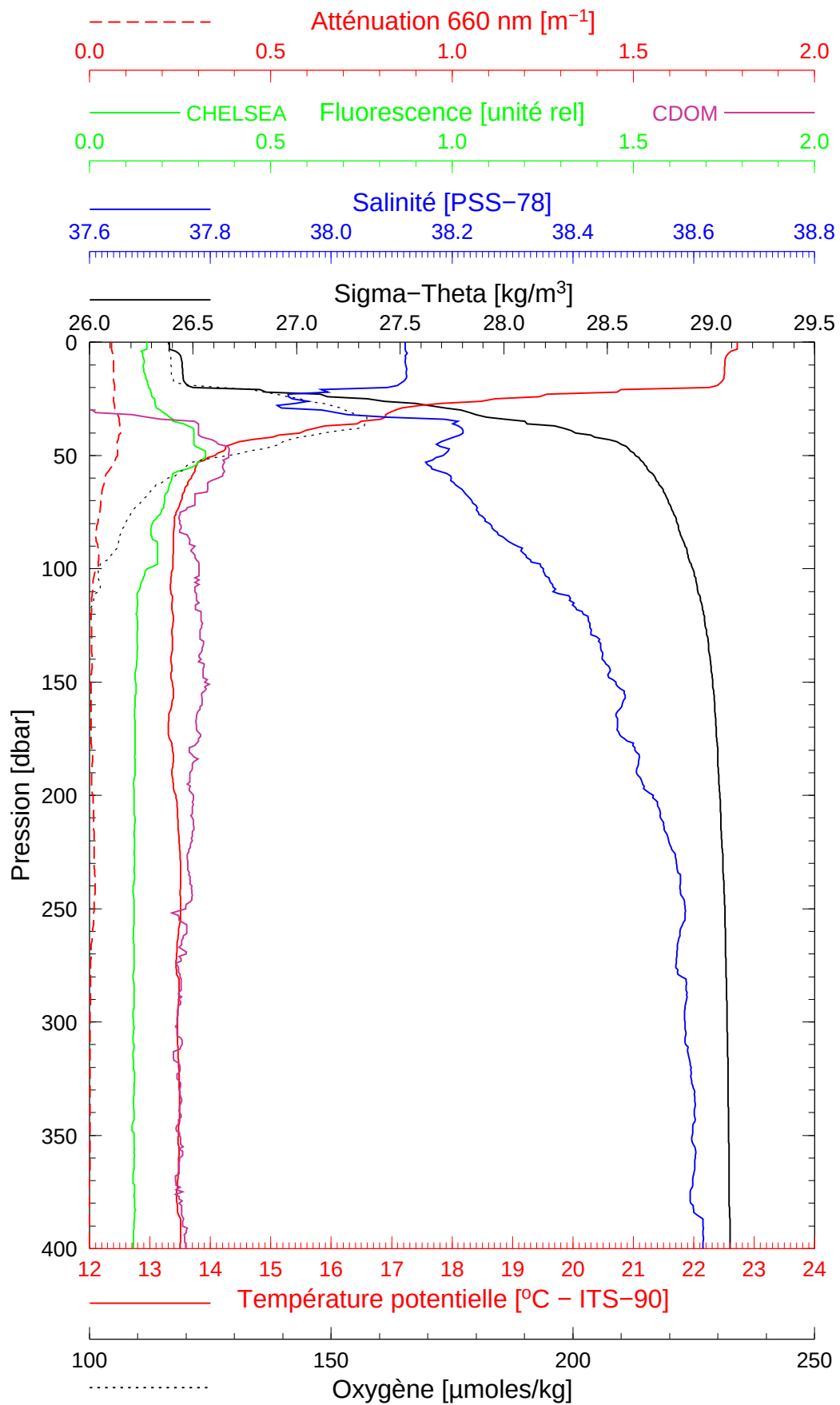
Latitude 43°25.171
Longitude 07°47.858

BOUSSOLE 91

10/10/2009

BOUS091010_03

BOUS005



Date 10/10/2009
Heure déb 12h 04min [TU]

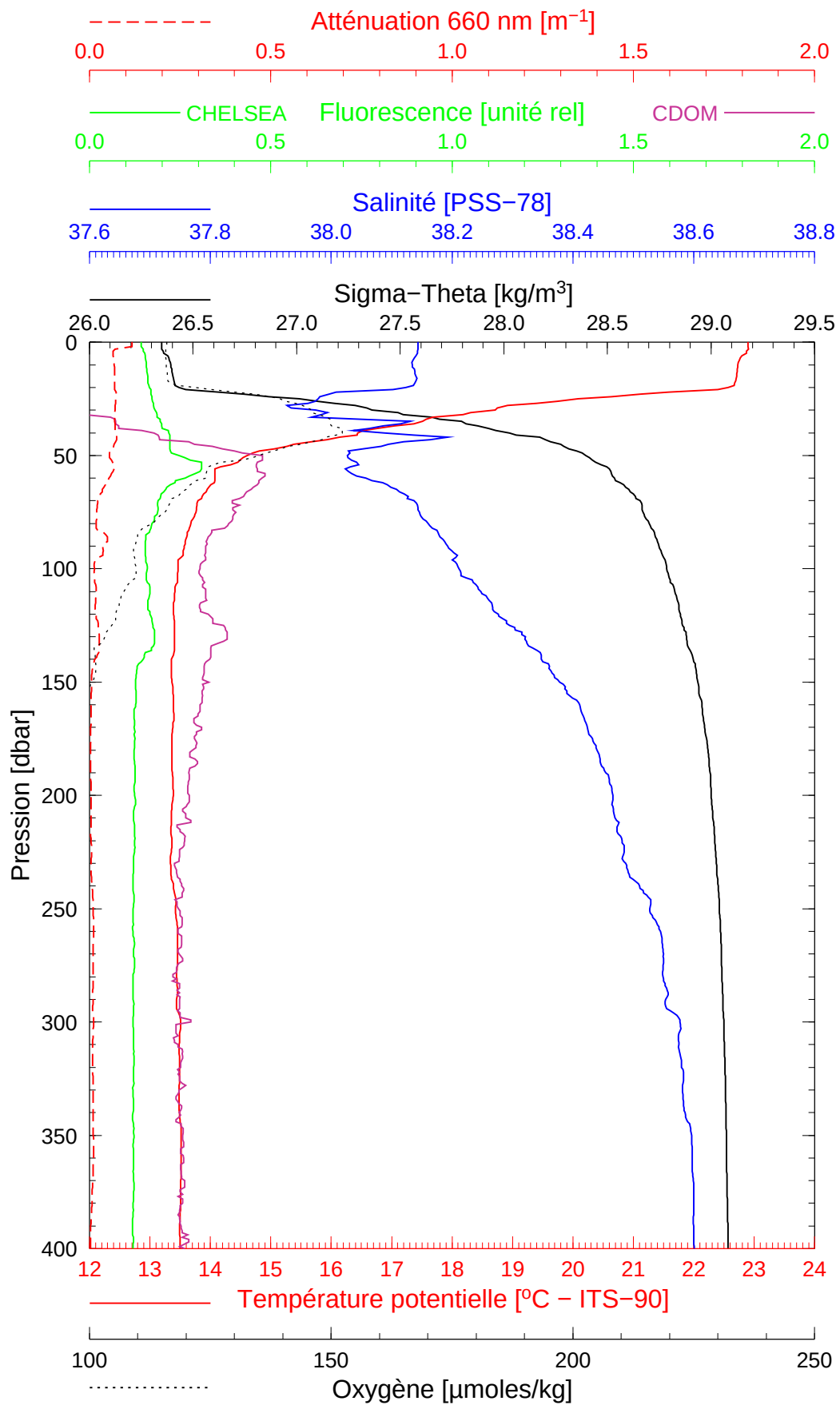
Latitude 43°28.000
Longitude 07°41.870

BOUSSOLE 91

10/10/2009

BOUS091010_04

BOUS006



Date 10/10/2009
Heure déb 13h 02min [TU]

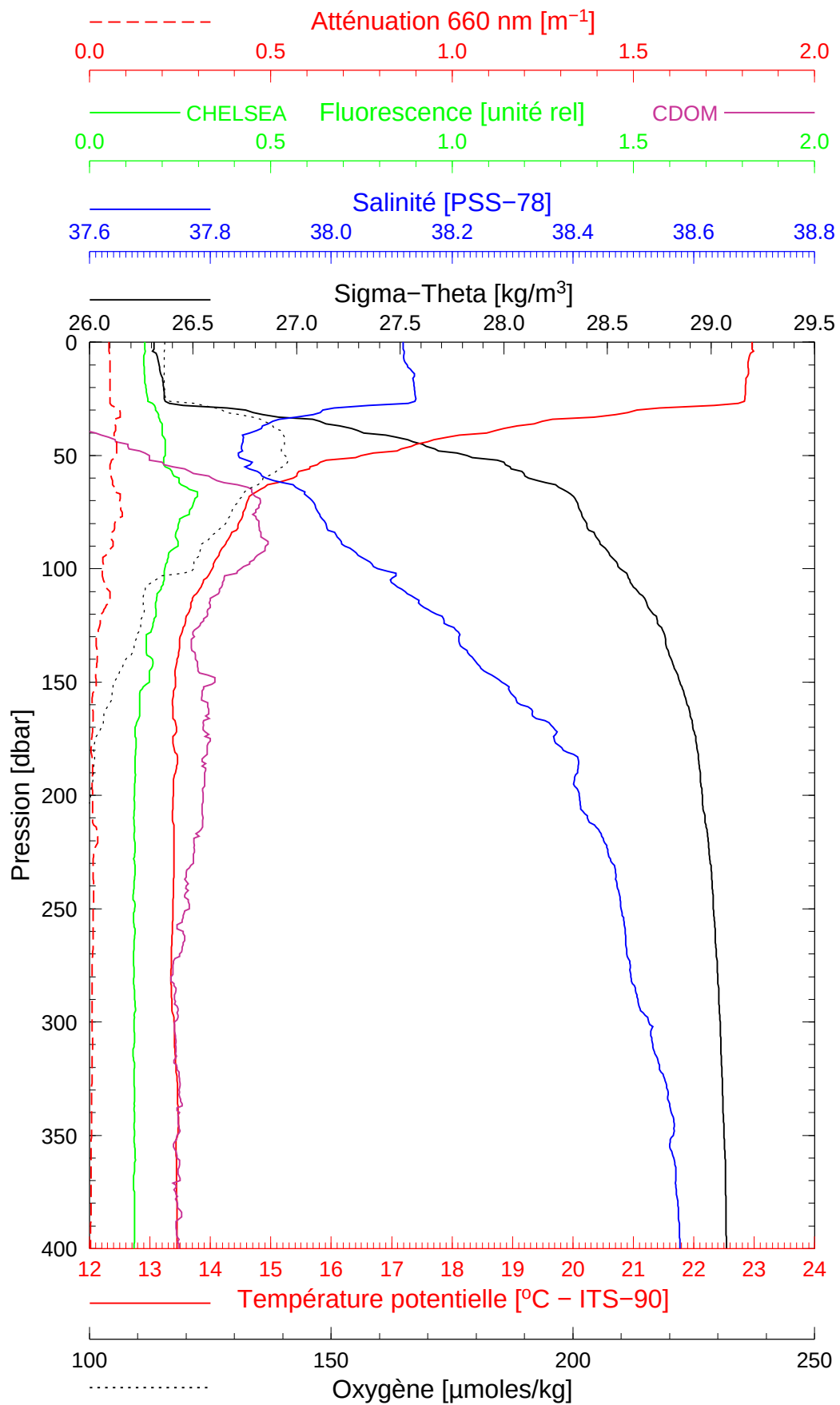
Latitude 43°31.032
Longitude 07°36.825

BOUSSOLE 91

10/10/2009

BOUS091010_05

BOUS007



Date 10/10/2009
Heure déb 13h 59min [TU]

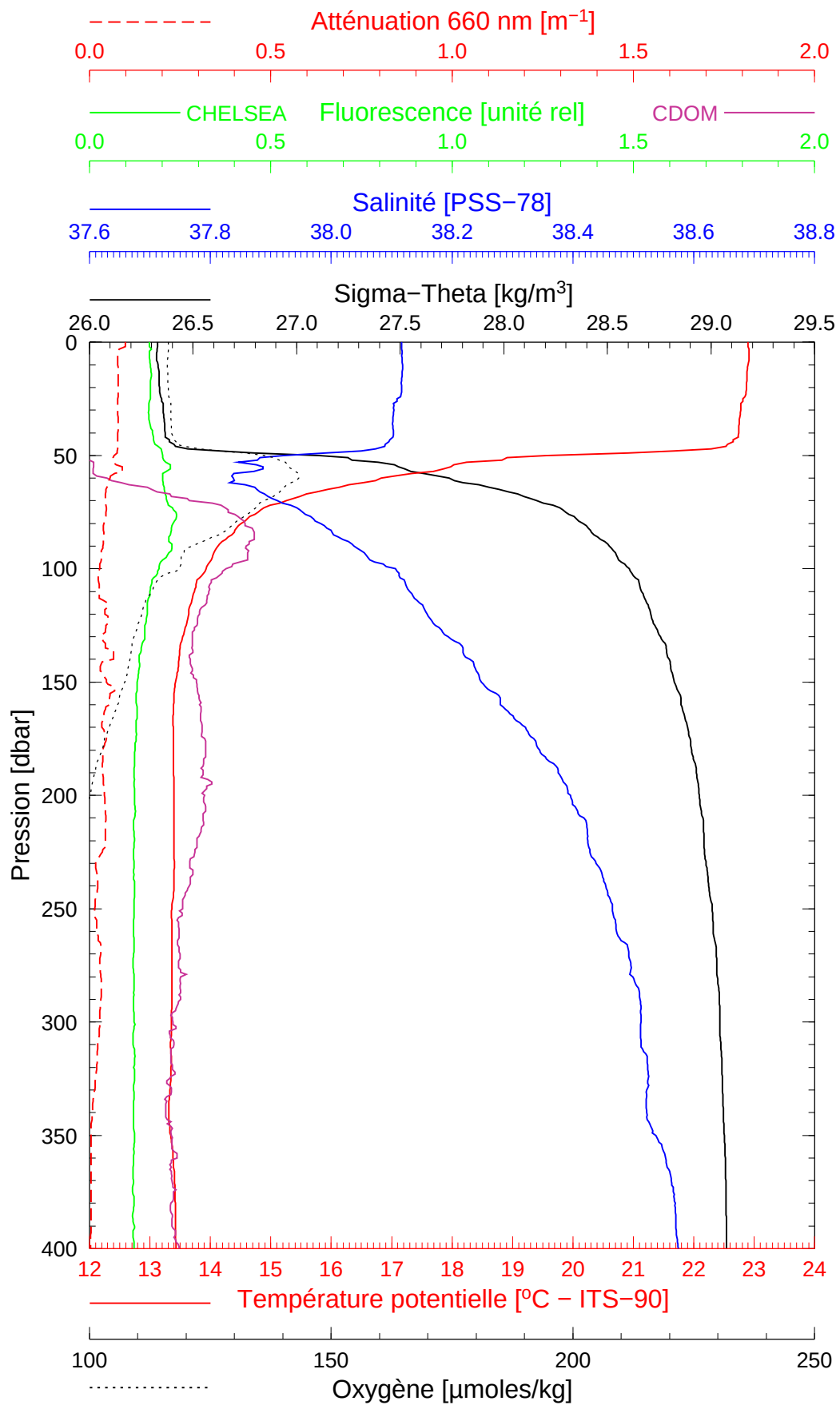
Latitude $43^{\circ}33.983$
Longitude $07^{\circ}30.720$

BOUSOLE 91

10/10/2009

BOUS091010_06

BOUS008



Date 10/10/2009
Heure déb 14h 55min [TU]

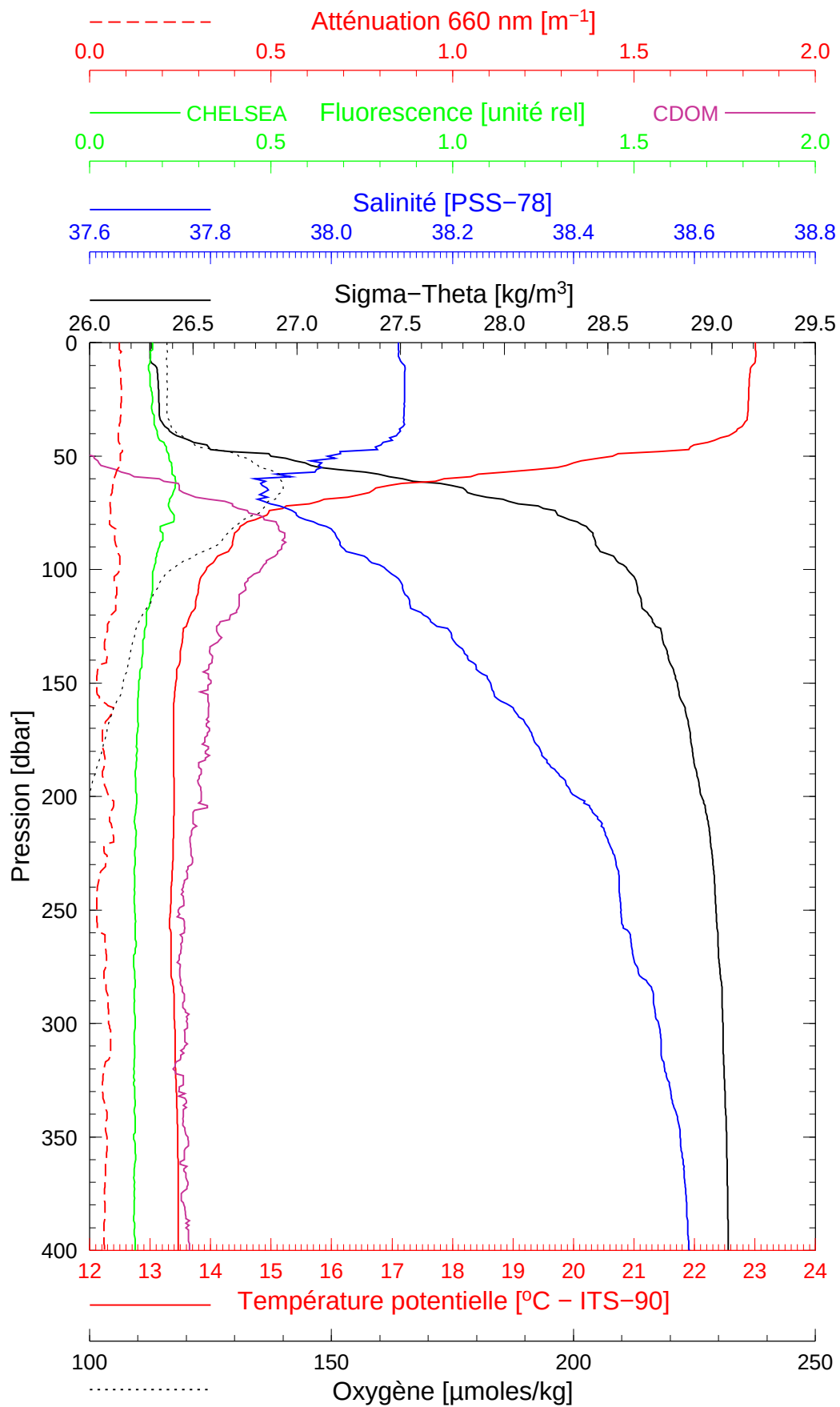
Latitude $43^{\circ}37.038$
Longitude $07^{\circ}24.869$

BOUSSOLE 91

10/10/2009

BOUS091010_07

BOUS009



Date 10/10/2009
Heure déb 15h 46min [TU]

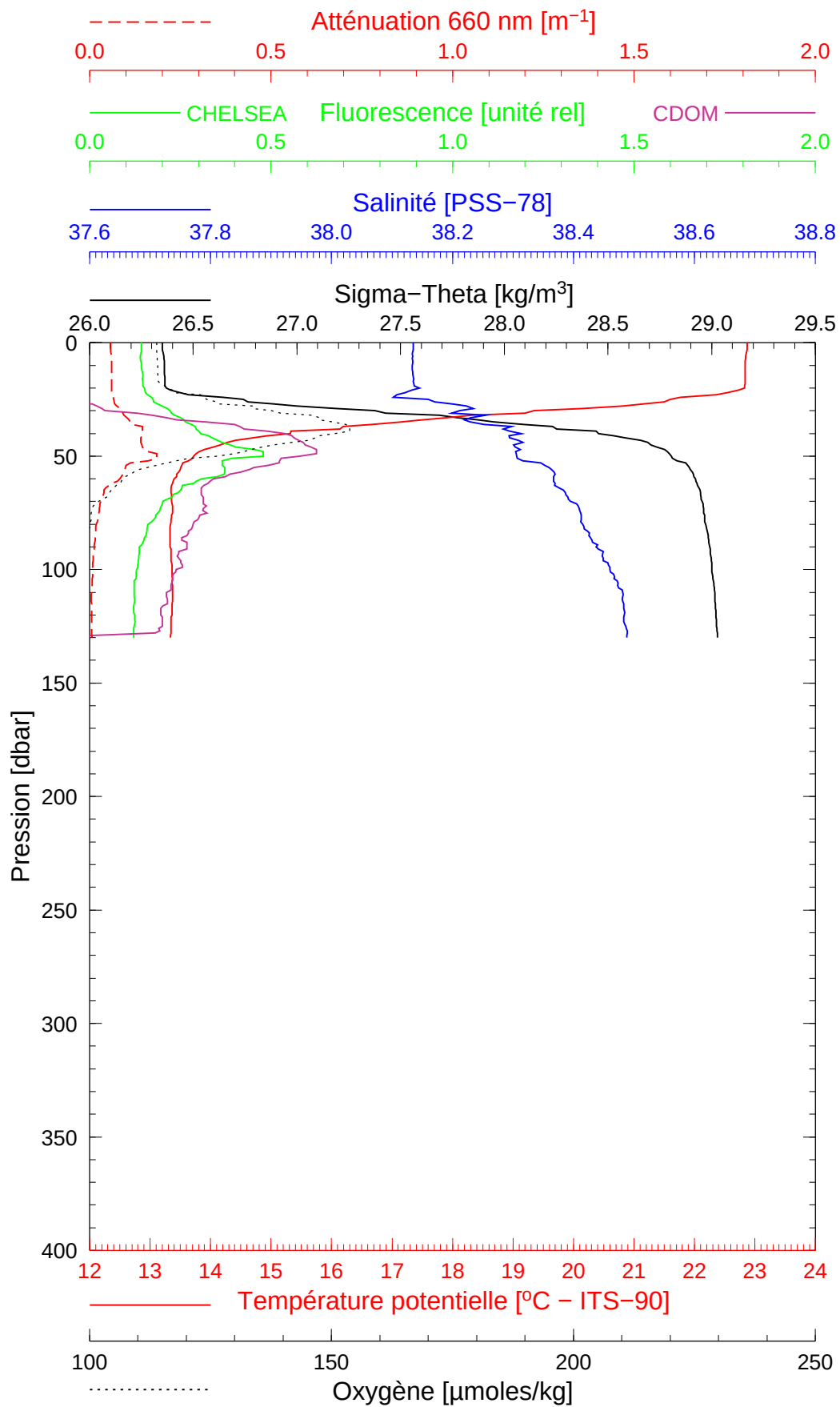
Latitude 43°38.997
Longitude 07°20.955

BOUSSOLE 91

11/10/2009

BOUS091011_01

BOUS010



Date 11/10/2009
Heure déb 09h 18min [TU]

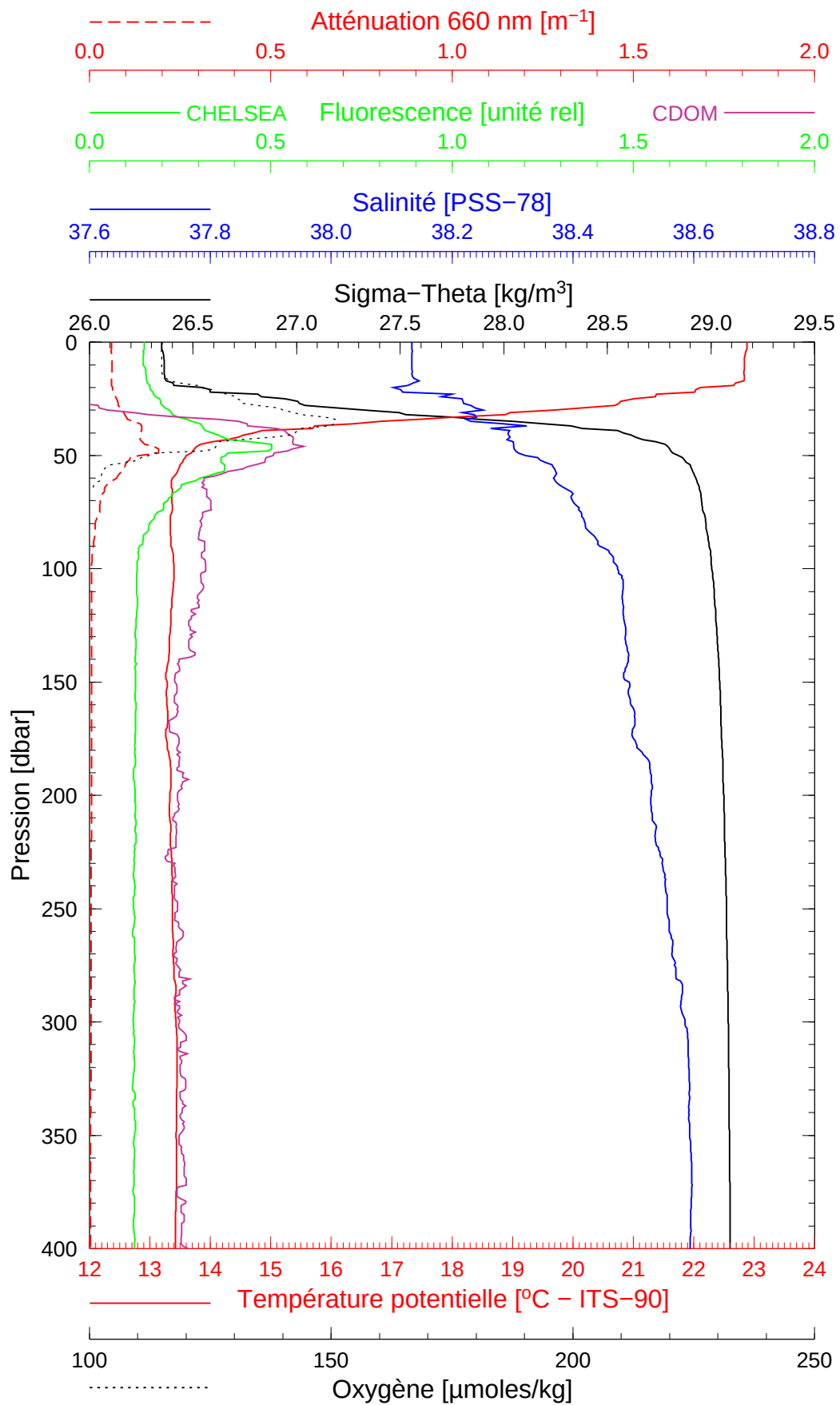
Latitude $43^{\circ}21.595$
Longitude $07^{\circ}53.188$

BOUSSOLE 91

11/10/2009

BOUS091011_02

BOUS011



Date 11/10/2009
Heure déb 09h 37min [TU]

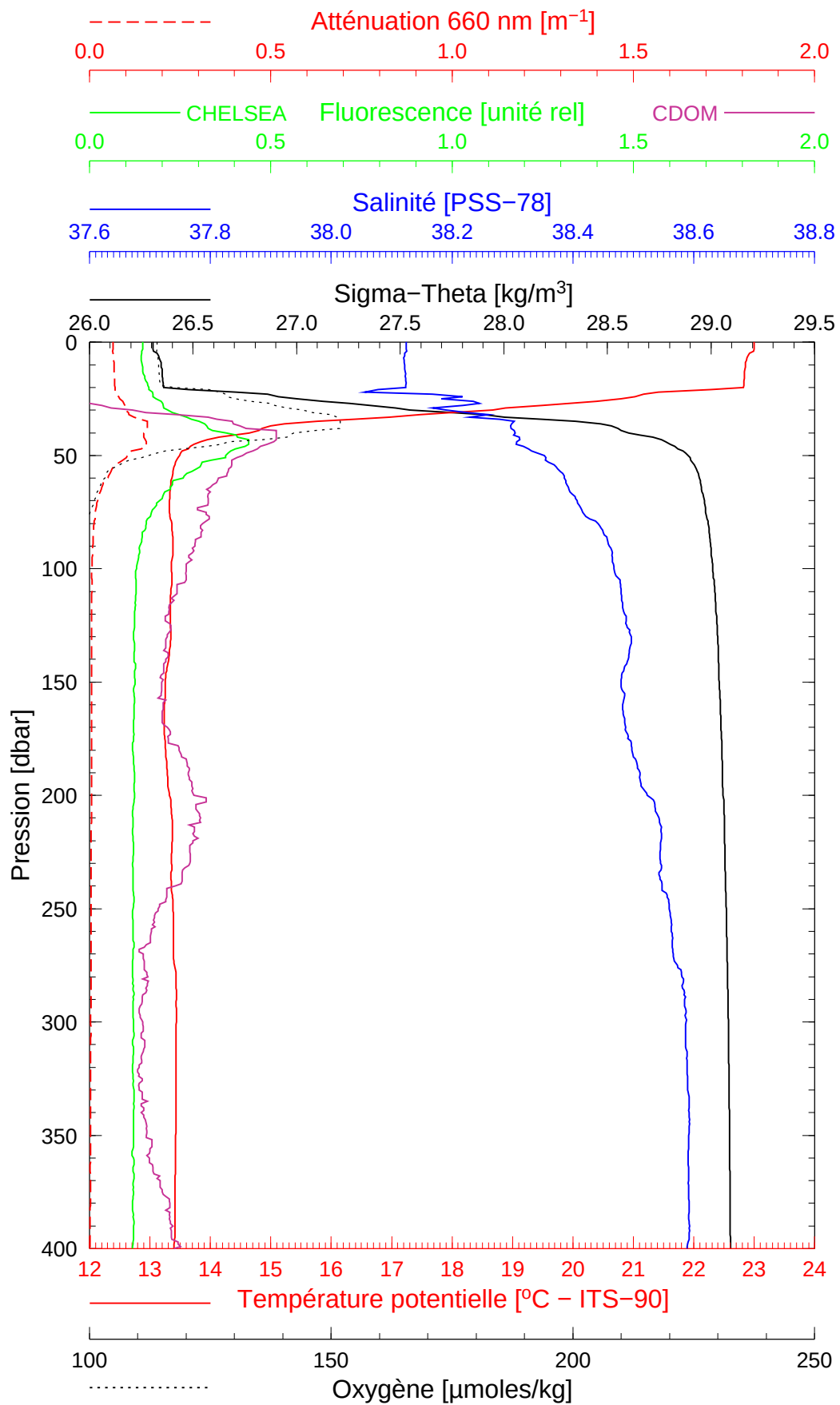
Latitude $43^{\circ}21.567$
Longitude $07^{\circ}53.210$

BOUSSOLE 91

11/10/2009

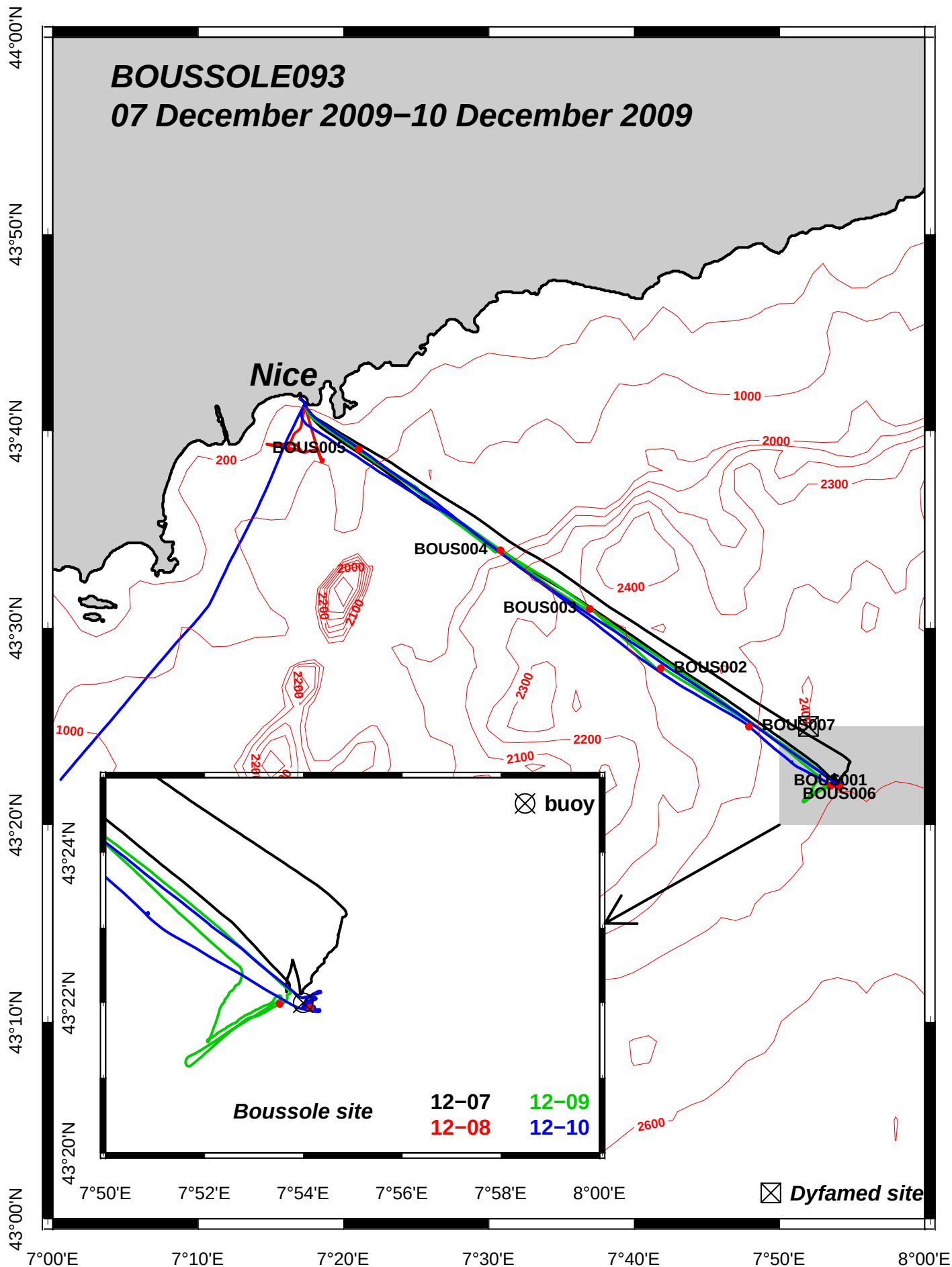
BOUS091011_03

BOUS012



Date 11/10/2009
Heure déb 12h 37min [TU]

Latitude $43^{\circ}21.826$
Longitude $07^{\circ}54.135$



Instrument configuration file: **C:\boussole\2009\200910\ctd\boussole_oct2009.con**

Configuration report for SBE 911plus/917plus CTD

Frequency channels suppressed : 0
Voltage words suppressed : 0
Computer interface : RS-232C
Scans to average : 1
NMEA position data added : No
NMEA depth data added : No
NMEA time added : No
Surface PAR voltage added : No
Scan time added : No

1) Frequency 0, **Temperature**

Serial number : **1378**
Calibrated on : 05-Sep-08
G : 4.87113984e-003
H : 6.79469483e-004
I : 2.72588409e-005
J : 2.18859819e-006
F0 : 1000.000
Slope : 1.00000000
Offset : 0.0000

2) Frequency 1, **Conductivity**

Serial number : **2929**
Calibrated on : 22-Aug-08
G : -1.06100220e+001
H : 1.42248535e+000
I : 3.69106162e-005
J : 5.90824323e-005
CTcor : 3.2500e-006
CPcor : -9.57000000e-008
Slope : 1.00000000
Offset : 0.00000

3) Frequency 2, **Pressure, Digiquartz with TC**

Serial number : **53981**
Calibrated on : 11-Jan-95
C1 : -4.499337e+004
C2 : 4.543683e-001
C3 : 1.505020e-002
D1 : 3.936600e-002
D2 : 0.000000e+000
T1 : 3.004660e+001
T2 : -1.897714e-004
T3 : 4.727060e-006
T4 : 1.923520e-009
T5 : 0.000000e+000
Slope : 0.99985000
Offset : 0.11430
AD590M : 1.138000e-002
AD590B : -8.189160e+000

4) Frequency 3, Free

5) Frequency 4, Free

6) A/D voltage 0, **Oxygen, SBE 43**

Serial number : **0378**
Calibrated on : 10-Oct-08p
Equation : Murphy-Larson
Coefficients for Owens-Millard:
Soc : 0.0000e+000
Boc : 0.0000
Offset : 0.0000
Tcor : 0.0000
Pcor : 0.00e+000
Tau : 0.0
Coefficients for Murphy-Larson:
Soc : 3.00900e-001
Offset : -6.62900e-001
A : -4.59880e-004
B : 1.98170e-004
C : -4.09020e-006
E : 3.60000e-002
Tau : 1.39000e+000

7) A/D voltage 1, Free

8) A/D voltage 2, **Fluorometer, Chelsea Aqua 3**

Serial number : **088193**
Calibrated on : 27-oct-97
VB : 0.165000
V1 : 1.933000
Vacetone : 0.250000
Scale factor : 1.000000
Slope : 1.000000
Offset : 0.000000

9) A/D voltage 3, Free

10) A/D voltage 4, **Fluorometer, Wetlab CDOM**

Serial number : **1095P**
Calibrated on : 09-Sep-09
Vblank : 0.059
Scale factor : 64.200

11) A/D voltage 5, **Transmissometer, Chelsea/Seatech/Wetlab CStar**

Serial number : **887DR**
Calibrated on : 09-Sep-09
M : 21.2992
B : -1.2566
Path length : 0.250

12) A/D voltage 6, Free

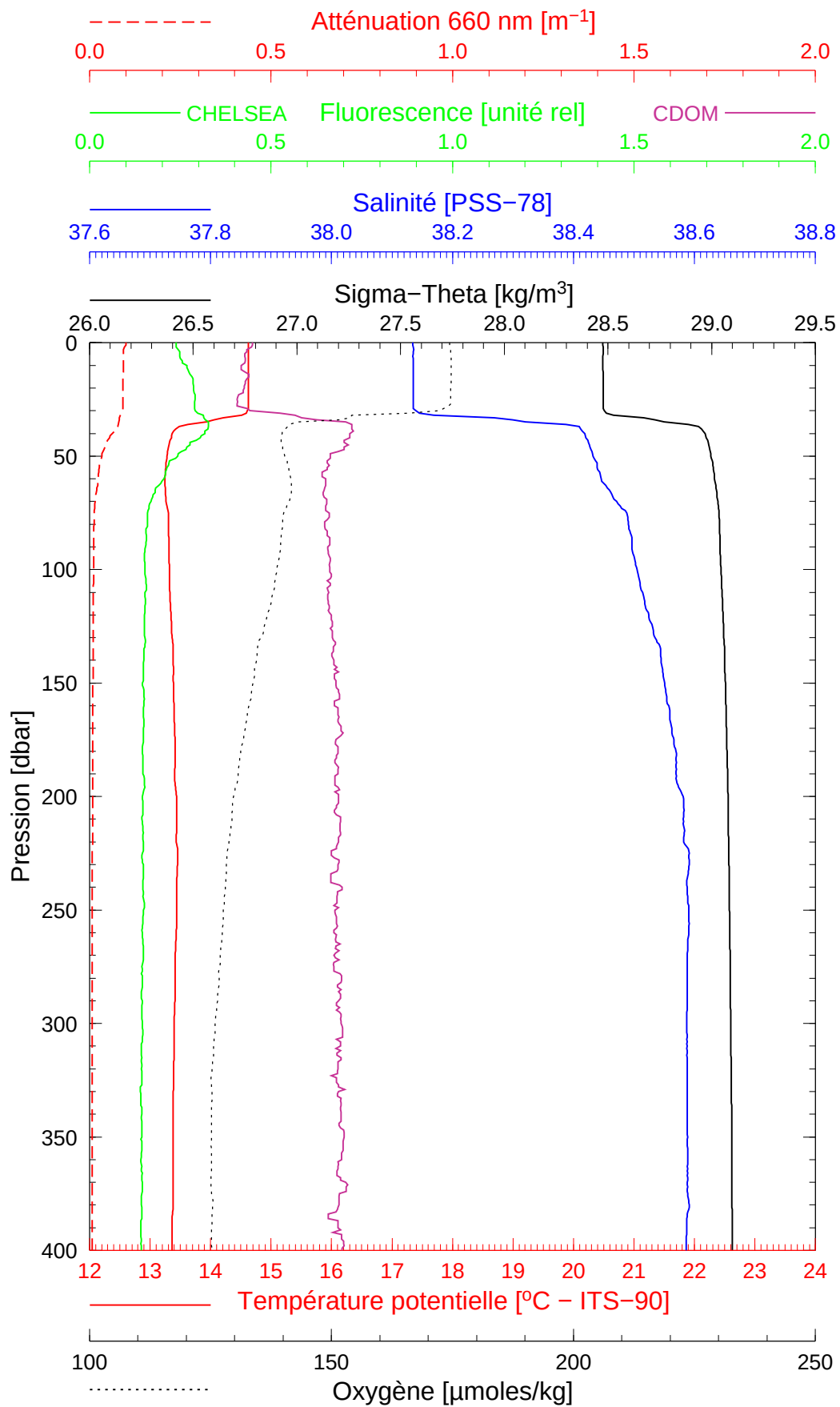
13) A/D voltage 7, Free

BOUSOLE 93

09/12/2009

BOUS091209_01

BOUS001



Date 09/12/2009
Heure déb 09h 30min [TU]

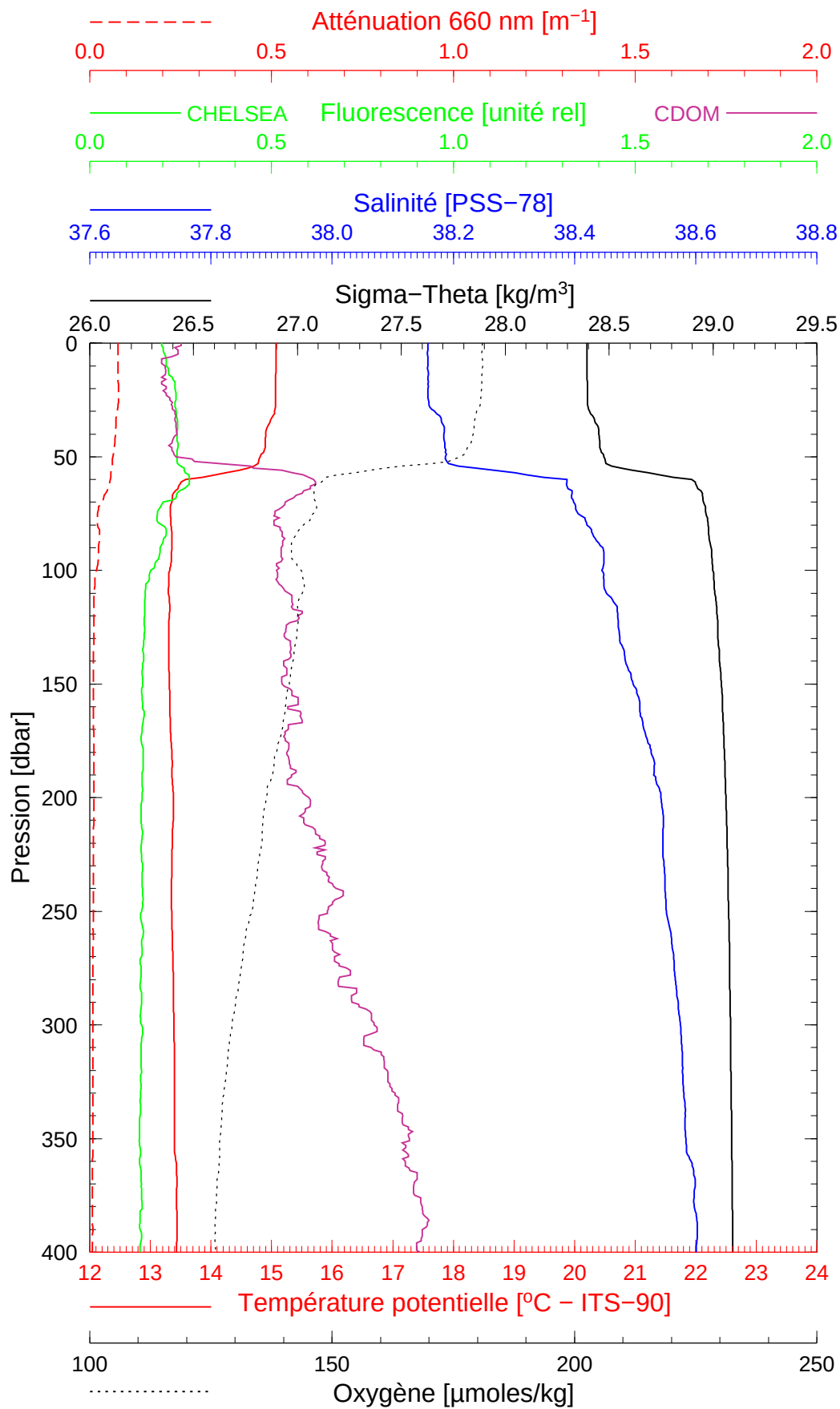
Latitude $43^{\circ}21.985$
Longitude $07^{\circ}53.526$

BOUSSOLE 93

09/12/2009

BOUS091209_02

BOUS002



Date 09/12/2009
Heure déb 13h 08min [TU]

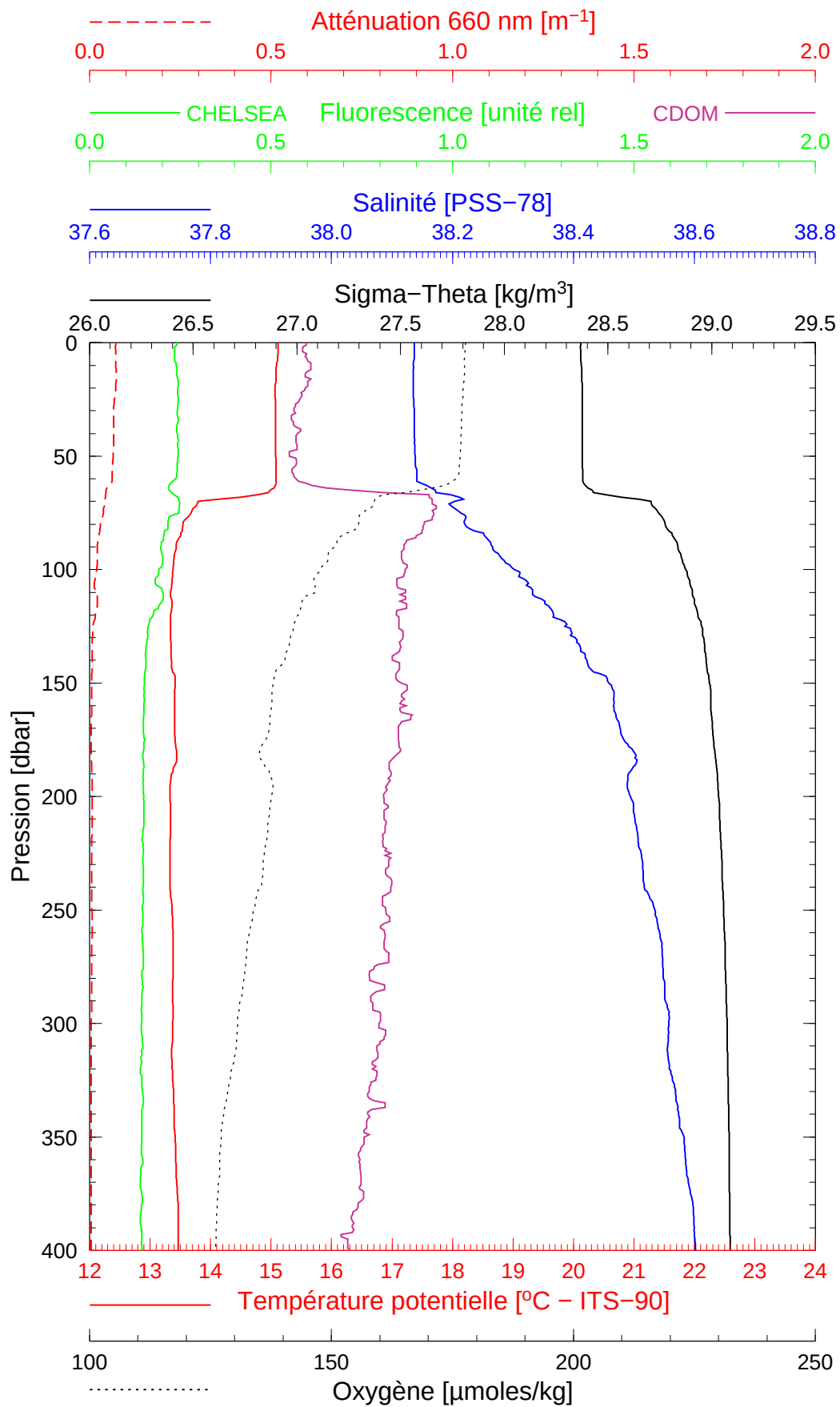
Latitude $43^{\circ}27.954$
Longitude $07^{\circ}41.838$

BOUSOLE 93

09/12/2009

BOUS091209_03

BOUS003



Date 09/12/2009
Heure déb 14h 00min [TU]

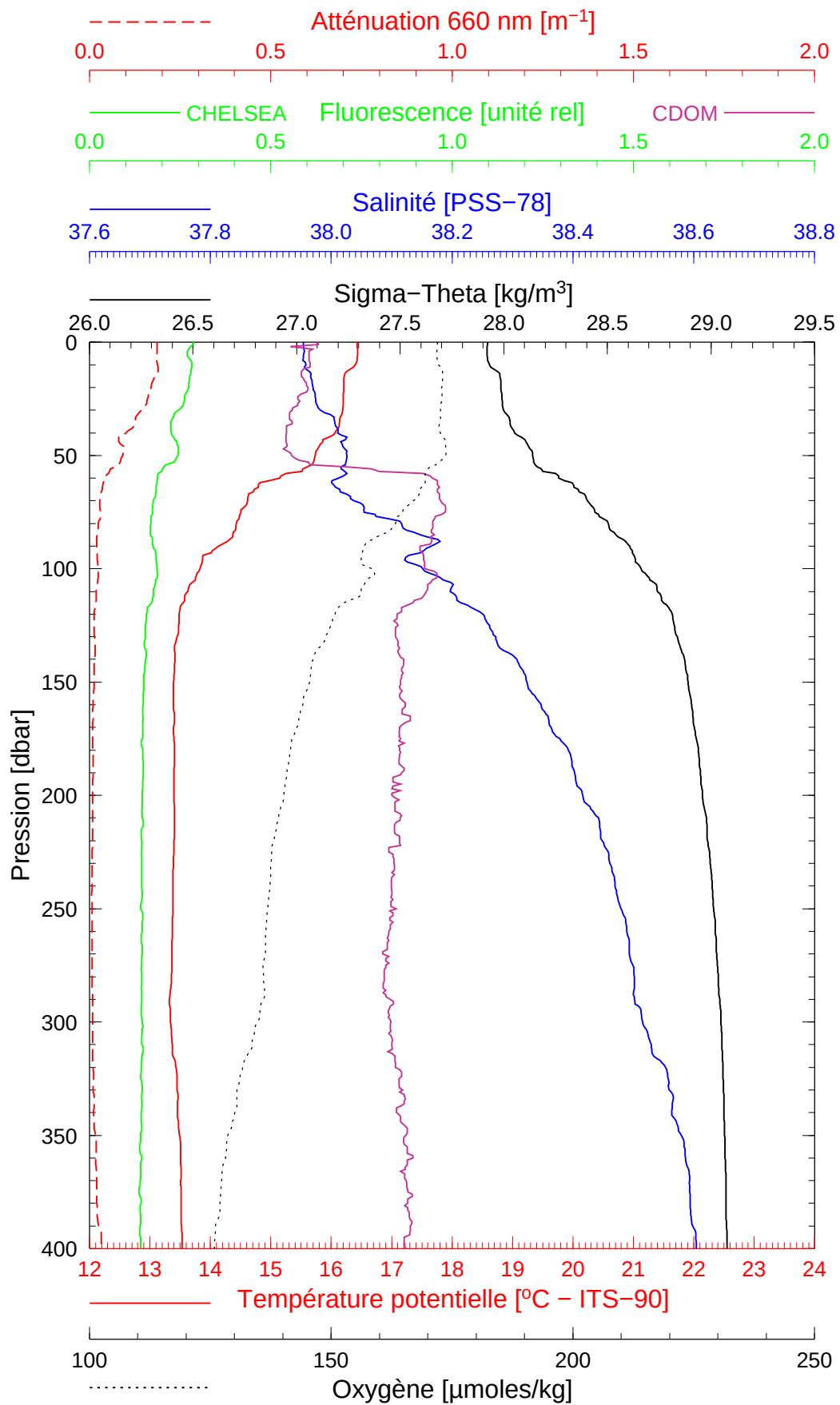
Latitude 43°30.970
Longitude 07°36.954

BOUSSOLE 93

09/12/2009

BOUS091209_04

BOUS004



Date 09/12/2009
Heure déb 14h 54min [TU]

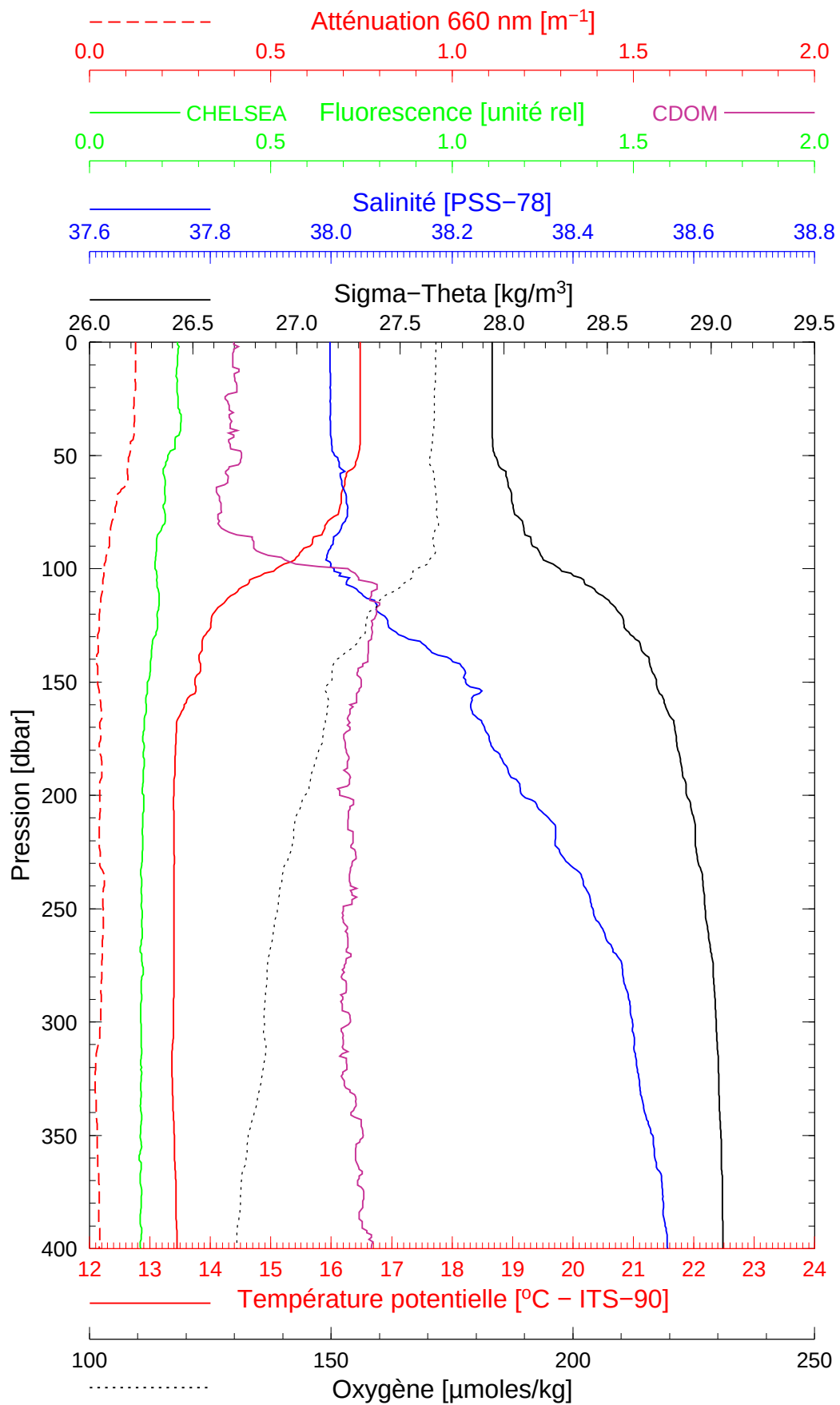
Latitude 43°33.946
Longitude 07°30.815

BOUSSOLE 93

09/12/2009

BOUS091209_05

BOUS005



Date 09/12/2009
Heure déb 16h 48min [TU]

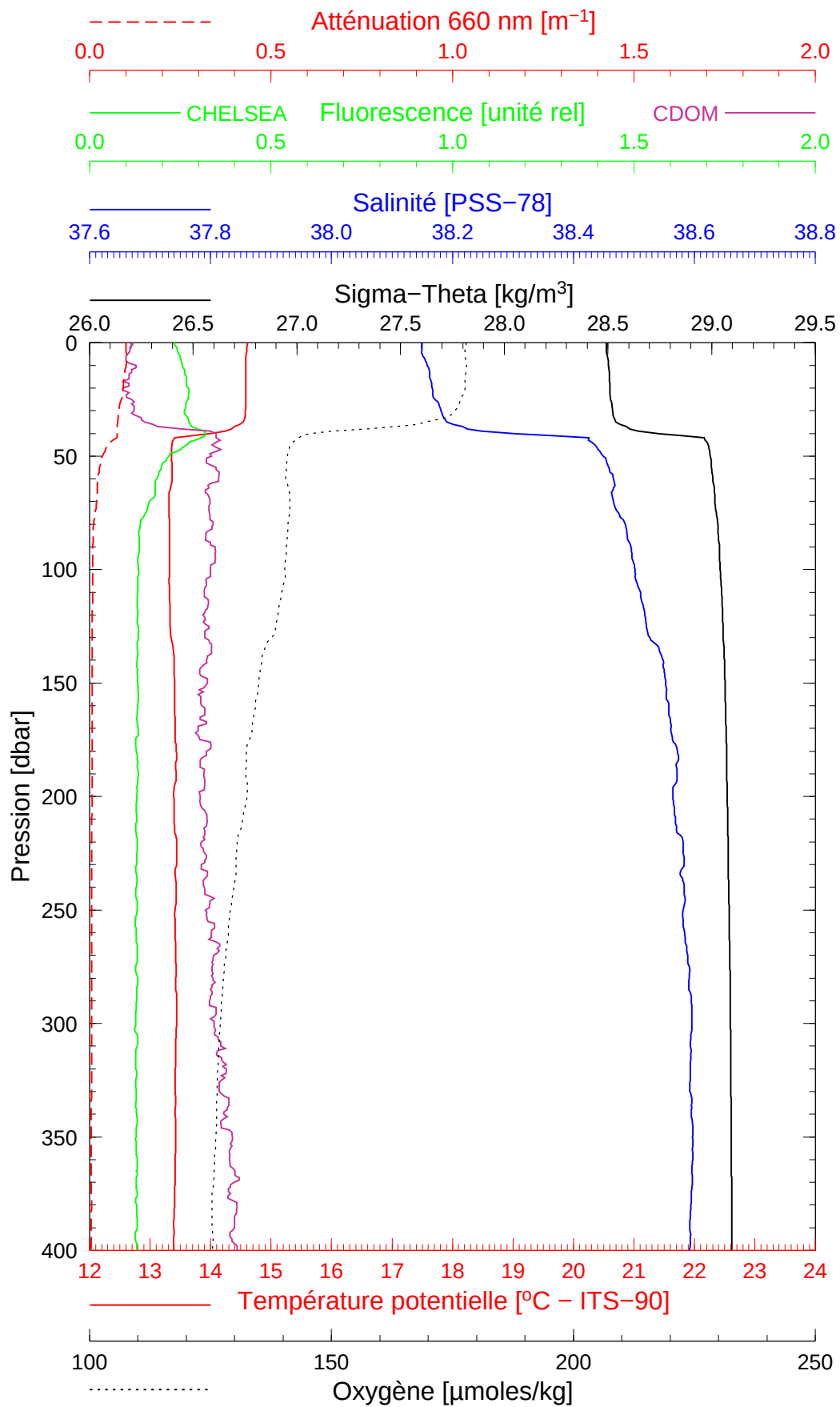
Latitude 43°39.079
Longitude 07°21.057

BOUSSOLE 93

09/12/2009

BOUS091210_01

BOUS006



Date 09/12/2009
Heure déb 12h 31min [TU]

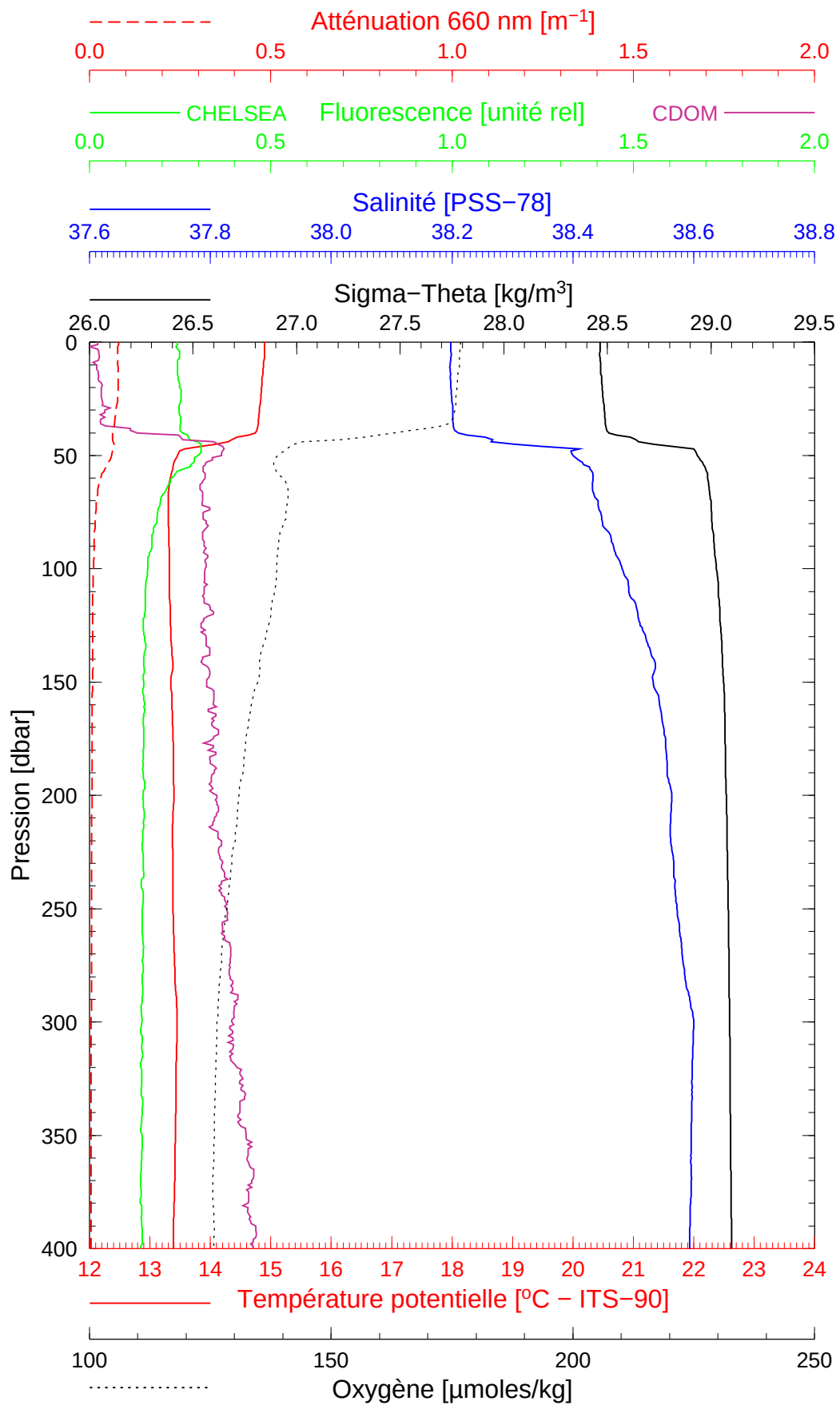
Latitude $43^{\circ}21.936$
Longitude $07^{\circ}54.140$

BOUSSOLE 93

09/12/2009

BOUS091210_02

BOUS007



Date 09/12/2009
Heure déb 14h 03min [TU]

Latitude $43^{\circ}24.992$
Longitude $07^{\circ}47.910$