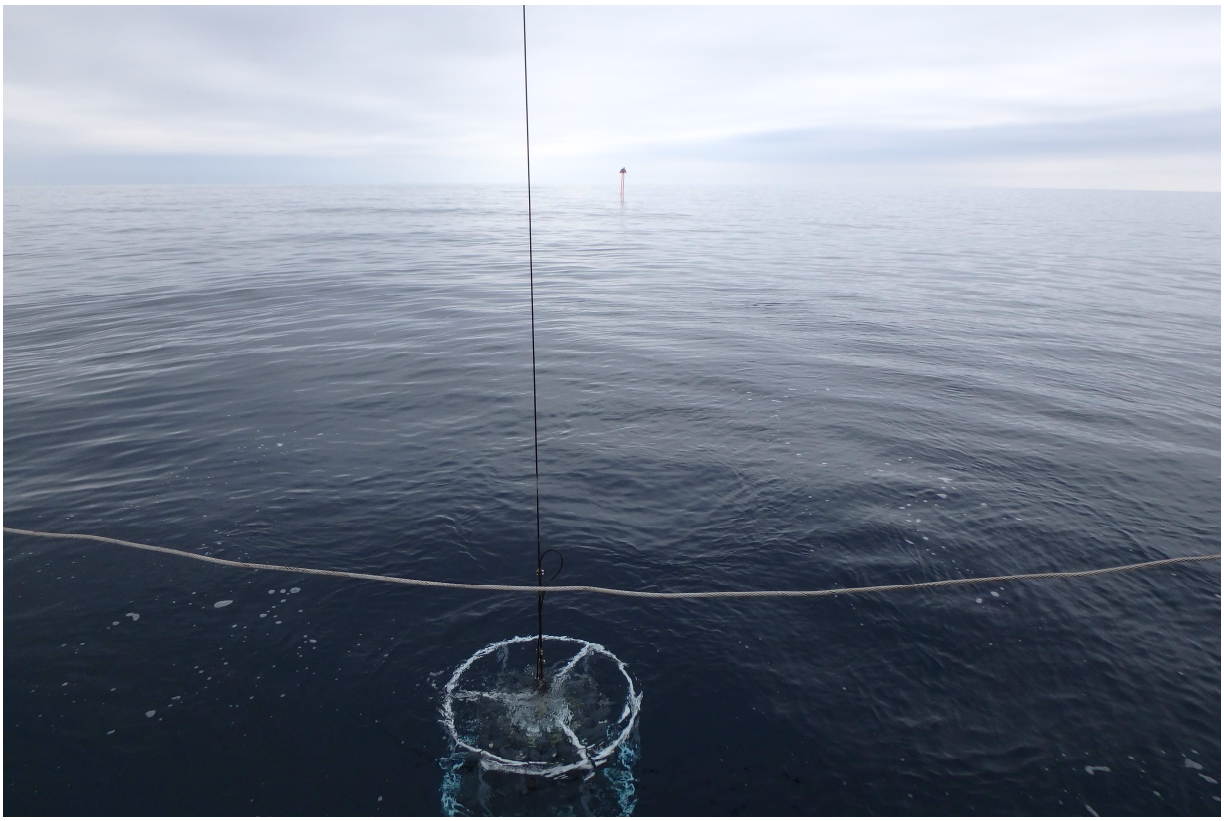
BOUSSOLE PROJECT

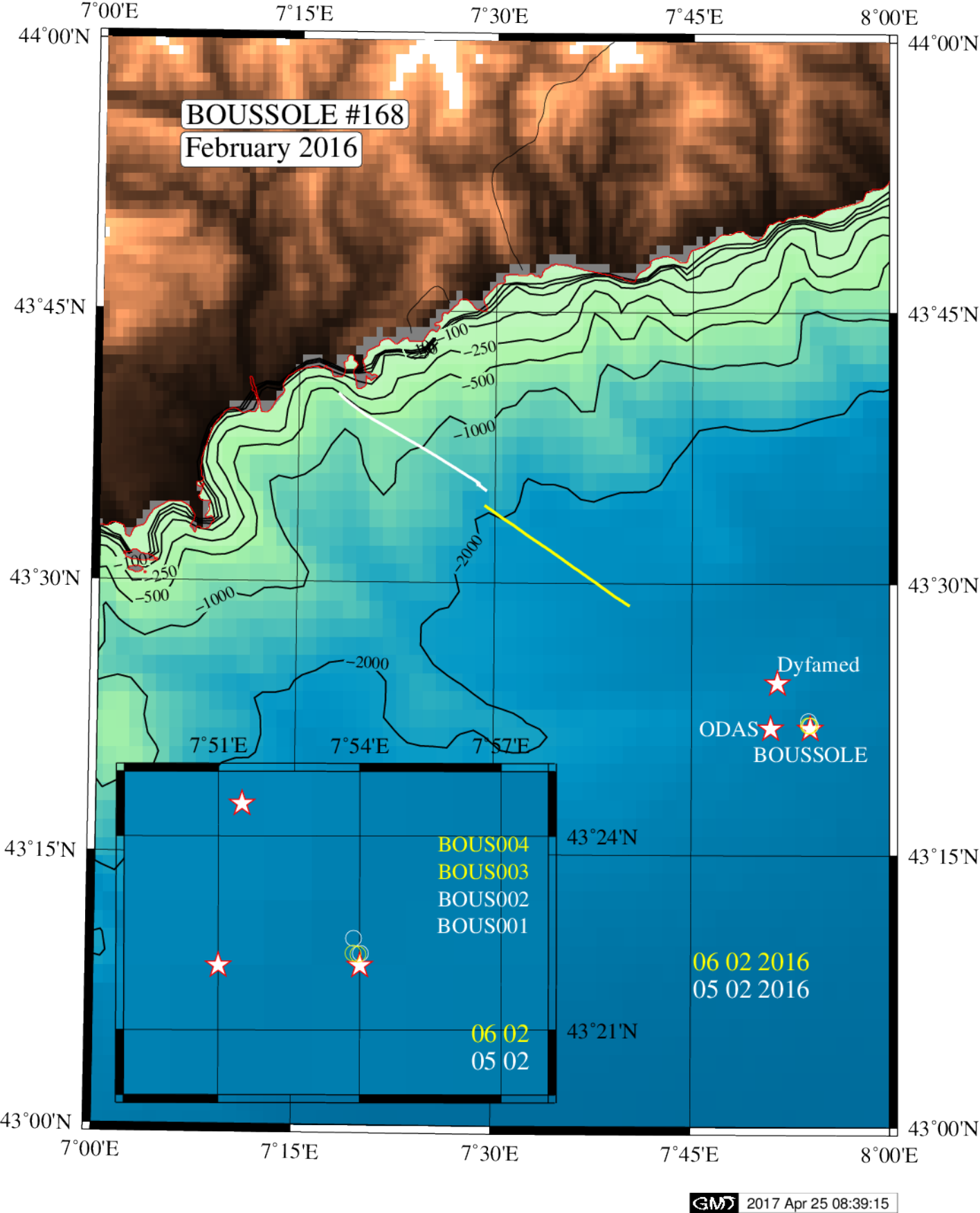
CTD Data catalogue for 2016

Cruise 167 to cruise 178



Deployment of the CTD Rosette on the BOUSSOLE site. The upper superstructure of the BOUSSOLE buoy is seen on the background of the picture.

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


BOUSSOLE #168
February 2016
7°00'E
7°15'E
7°30'E
7°45'E
8°00'E
44°00'N
43°45'N
43°30'N
43°15'N
43°00'N
-100
-250
-500
-1000
-2000
Dyfamed
ODAS
BOUSSOLE
7°51'E
7°54'E
7°57'E
43°24'N
43°21'N
BOUS004
BOUS003
BOUS002
BOUS001
06 02 2016
05 02 2016
06 02
05 02
GMT 2017 Apr 25 08:39:15

Date: 08/03/2017

Instrument configuration file: C:\boussole\Data\CTD\2016\fev2016\ctd\boussole_fev2016.xmlcon

Configuration report for SBE 911plus/917plus CTD

```
Frequency channels suppressed : 2
Voltage words suppressed      : 1
Computer interface            : RS-232C
Deck unit                     : SBE11plus Firmware Version >= 5.0
Scans to average              : 1
NMEA position data added      : Yes
NMEA depth data added         : No
NMEA time added               : No
NMEA device connected to      : deck unit
Surface PAR voltage added     : No
Scan time added               : No
```

1) Frequency 0, Temperature

```
   Serial number : 2473
   Calibrated on : 16-Apr-15
   G             : 4.36735425e-003
   H             : 6.43361369e-004
   I             : 2.35086423e-005
   J             : 2.25622577e-006
   F0            : 1000.000
   Slope         : 1.00000000
   Offset        : 0.0000
```

2) Frequency 1, Conductivity

```
   Serial number : 1313
   Calibrated on : 16-Apr-15
   G             : -3.93984071e+000
   H             : 4.71474053e-001
   I             : -2.17881662e-004
   J             : 3.85707661e-005
   CTcor         : 3.2500e-006
   CPcor         : -9.57000000e-008
   Slope         : 1.00000000
   Offset        : 0.00000
```

3) Frequency 2, Pressure, Digiquartz with TC

```
   Serial number : 0329
   Calibrated on : 04-Dec-09
   C1            : -4.499631e+004
   C2            : 4.598757e-001
   C3            : 1.505020e-002
   D1            : 3.936600e-002
   D2            : 0.000000e+000
   T1            : 3.004570e+001
   T2            : -1.880753e-004
   T3            : 4.727060e-006
   T4            : -1.923520e-009
   T5            : 0.000000e+000
   Slope         : 0.99996509
   Offset        : -0.27039
   AD590M        : 1.280100e-002
   AD590B        : -9.240166e+000
```

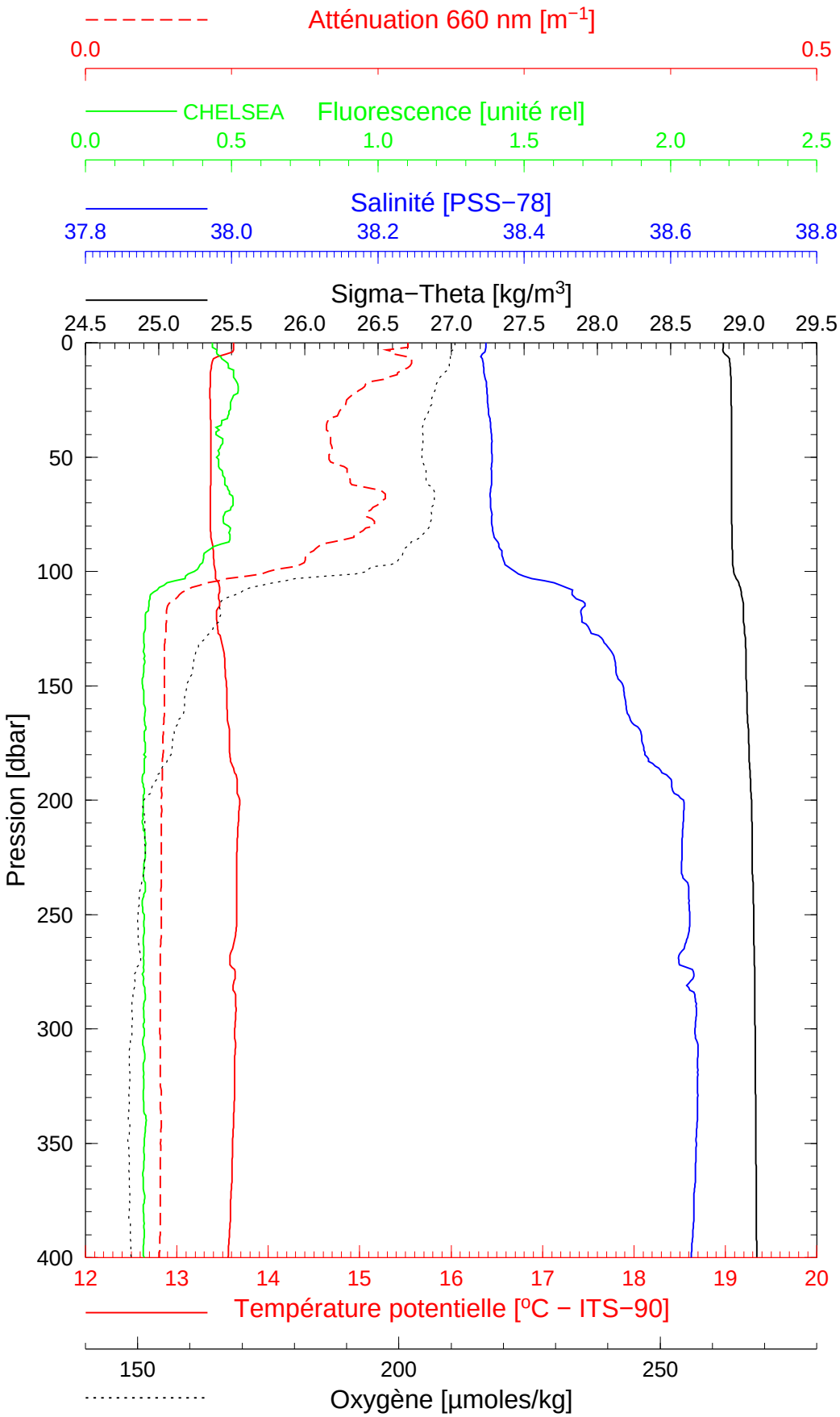
4) A/D voltage 0, Oxygen, SBE 43

```
   Serial number : 0587
   Calibrated on : 14-Mar-15
   Equation      : Sea-Bird
   Soc           : 3.87390e-001
   Offset        : -6.96400e-001
   A             : -3.78820e-003
   B             : 1.52710e-004
   C             : -2.38190e-006
   E             : 3.60000e-002
   Tau20         : 1.17000e+000
```

```
   D1            : 1.92634e-004
   D2            : -4.64803e-002
   H1            : -3.30000e-002
   H2            : 5.00000e+003
   H3            : 1.45000e+003

5) A/D voltage 1, Free

6) A/D voltage 2, User Polynomial

   Serial number : 171
   Calibrated on : 19May2014
   Sensor name   : RINKOIII_DO
   A0            : 0.00000000
   A1            : 1.00000000
   A2            : 0.00000000
   A3            : 0.00000000

7) A/D voltage 3, User Polynomial, 2

   Serial number : 171
   Calibrated on : 12May2014
   Sensor name   : RINKOIII_Temp
   A0            : -5.25367500
   A1            : 16.66254000
   A2            : -2.13105300
   A3            : 0.45564880

8) A/D voltage 4, 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 5, Transmissometer, WET Labs C-Star

   Serial number : 887DR
   Calibrated on : 11-sept-2015
   M             : 21.3083
   B             : -0.1065
   Path length   : 0.250

Scan length                  : 28
```

BOUSSOLE 168 **05/02/2016** **BOUS160205_01**

BOUS001

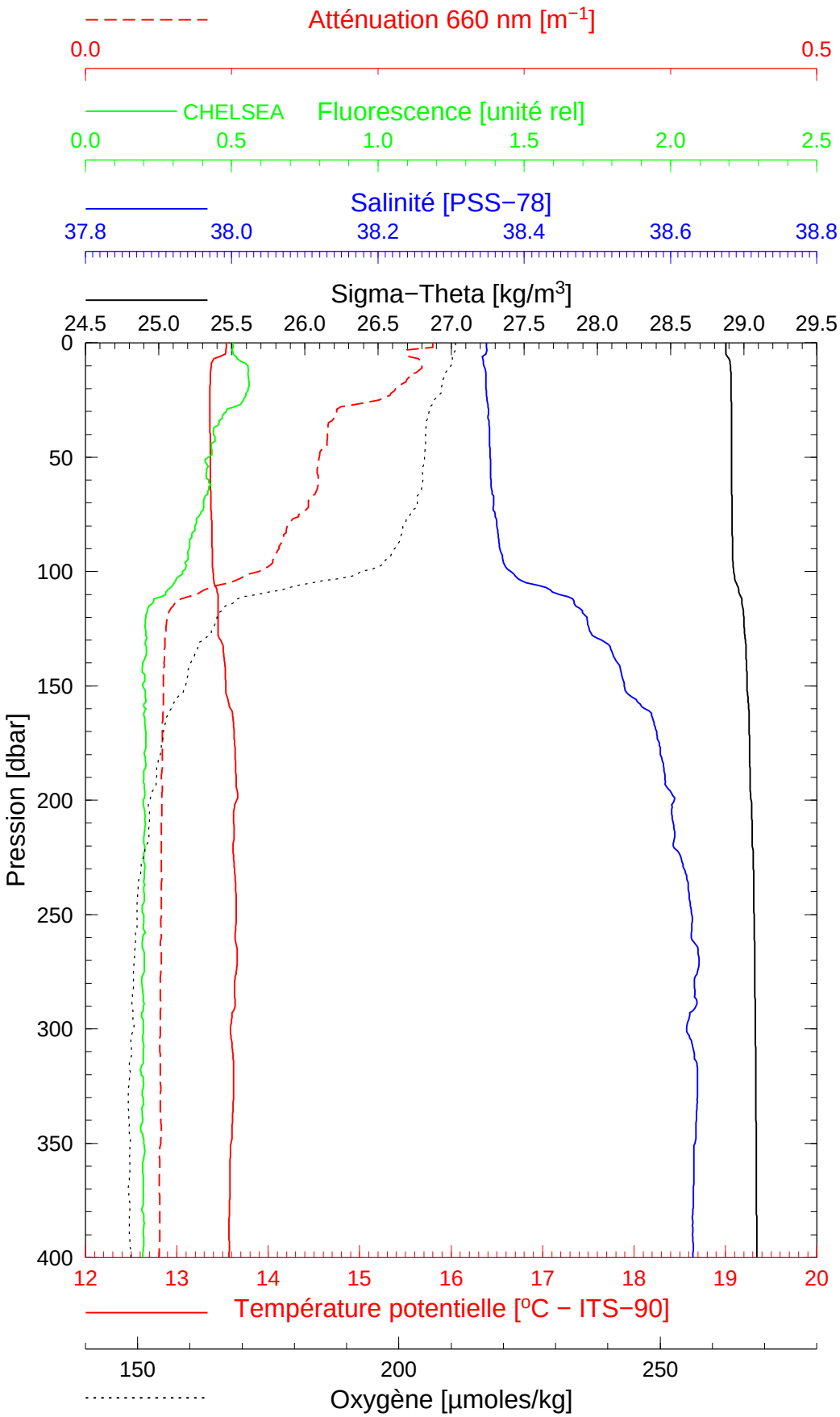


Date *05/02/2016* *Latitude* *43°22.416 N*

Heure déb *14h 31min [TU]* *Longitude* *07°53.869 E*

BOUSSOLE 168 **05/02/2016** **BOUS160205_02**

BOUS002

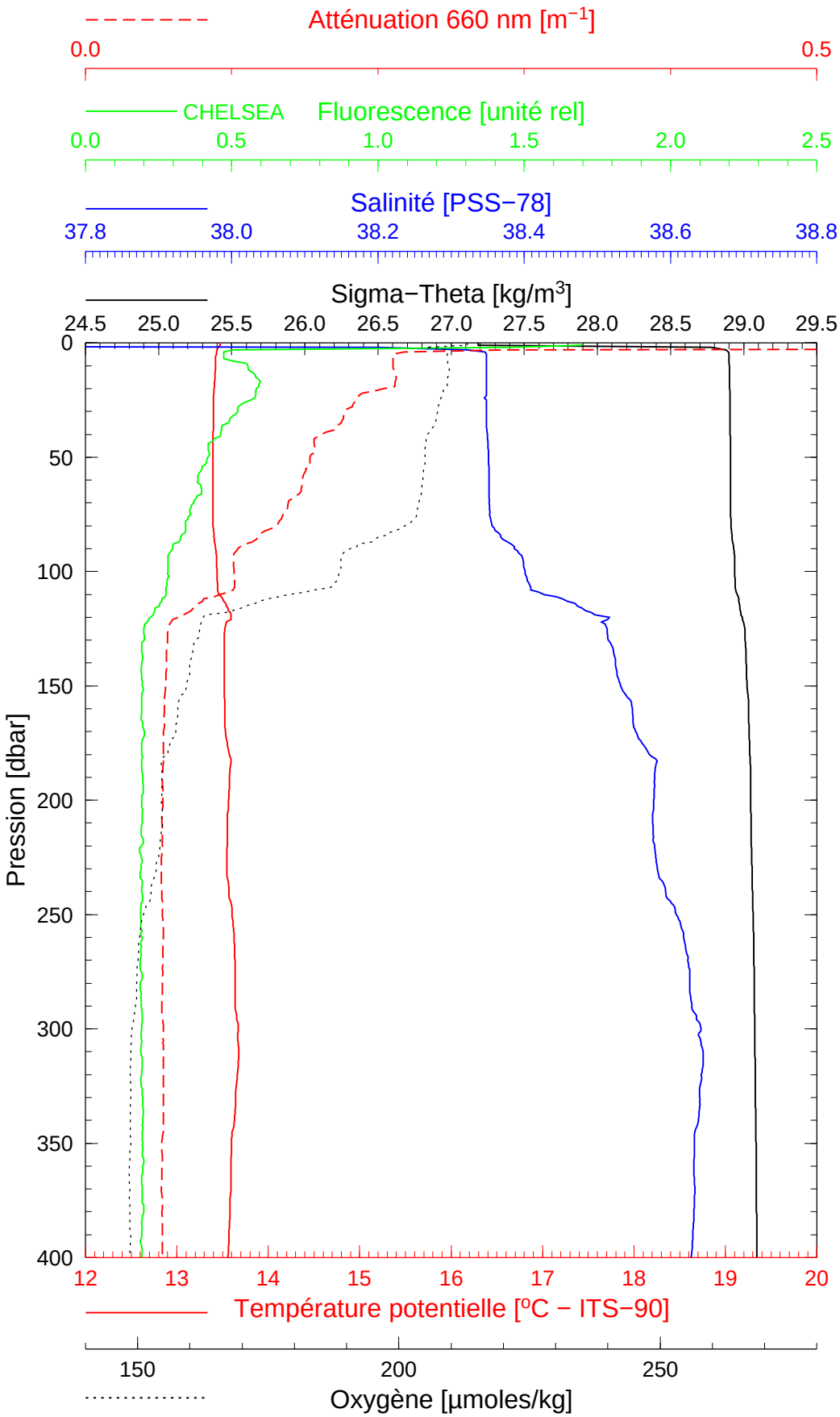


Date *05/02/2016* *Latitude* *43°22.182 N*

Heure déb *15h 21min [TU]* *Longitude* *07°54.016 E*

BOUSSOLE 168 **06/02/2016** **BOUS160206_01**

BOUS003

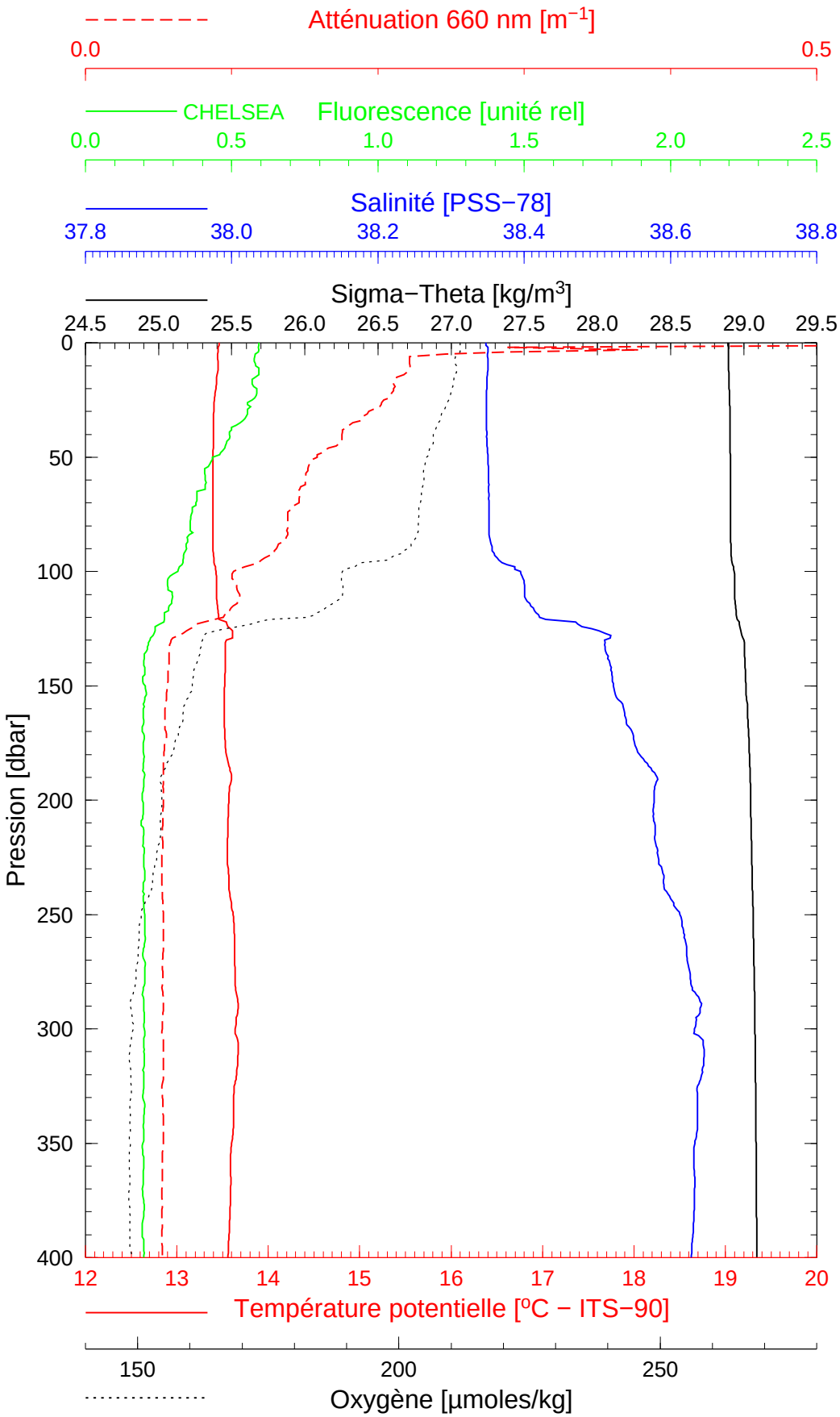


Date *06/02/2016* *Latitude* *43°22.186 N*

Heure déb *13h 31min [TU]* *Longitude* *07°53.862 E*

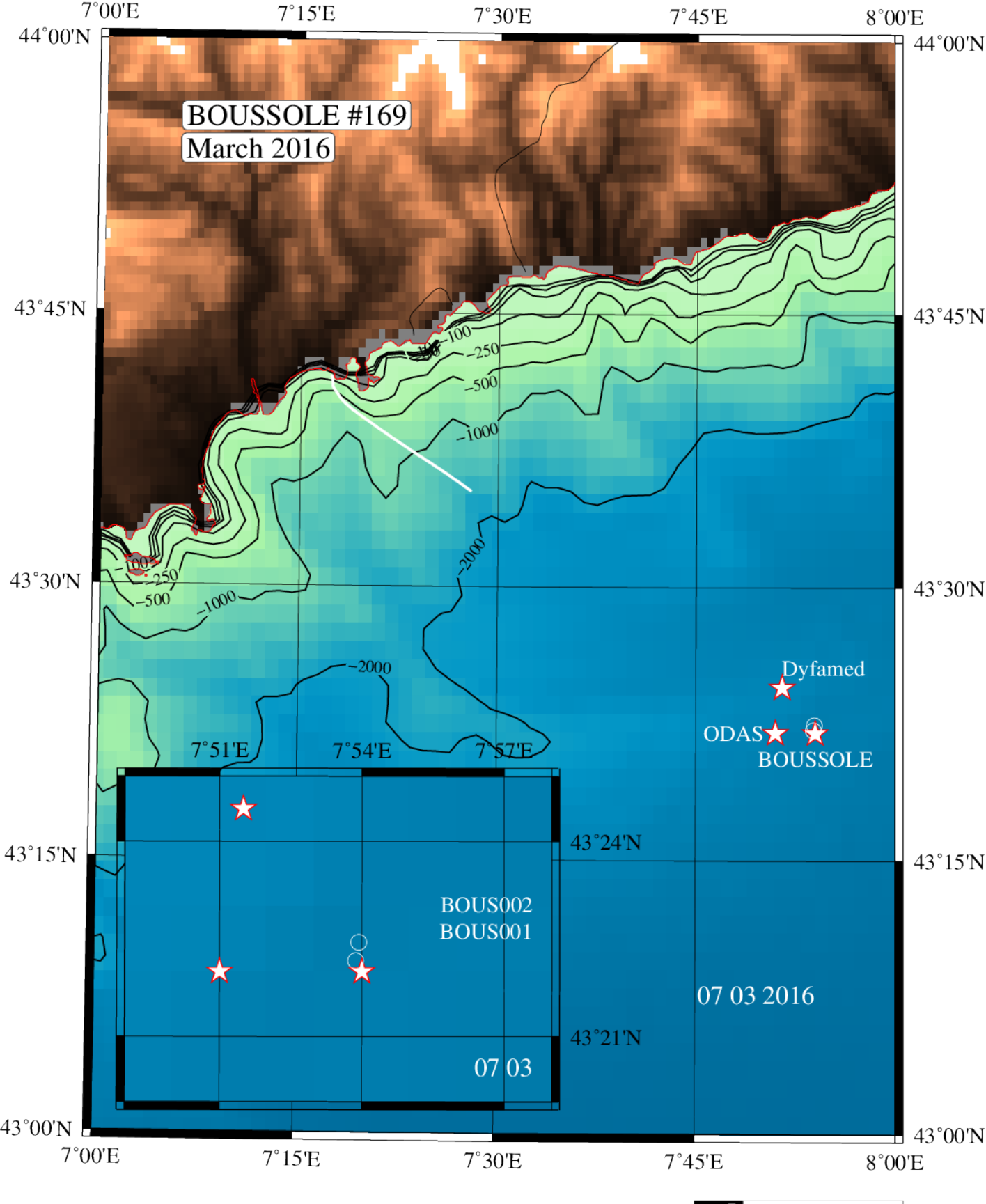
BOUSSOLE 168 **06/02/2016** **BOUS160206_02**

BOUS004



Date *06/02/2016* *Latitude* *43°22.170 N*

Heure déb *14h 42min [TU]* *Longitude* *07°53.965 E*


BOUSSOLE #169
March 2016
7°00'E
7°15'E
7°30'E
7°45'E
8°00'E
44°00'N
43°45'N
43°30'N
43°15'N
43°00'N
-100
-250
-500
-1000
-2000
Dyfamed
ODAS
BOUSSOLE
7°51'E
7°54'E
7°57'E
43°24'N
43°21'N
BOUS002
BOUS001
07 03
07 03 2016
GMT 2017 Apr 25 08:39:19

Date: 08/03/2017

Instrument configuration file: C:\boussole\Data\CTD\2016\mars2016\ctd\boussole_mars 2016.xmlcon

Configuration report for SBE 911plus/917plus CTD

```
Frequency channels suppressed : 2
Voltage words suppressed      : 1
Computer interface            : RS-232C
Deck unit                     : SBE11plus Firmware Version >= 5.0
Scans to average              : 1
NMEA position data added      : Yes
NMEA depth data added         : No
NMEA time added               : No
NMEA device connected to      : deck unit
Surface PAR voltage added     : No
Scan time added               : No
```

1) Frequency 0, Temperature

```
   Serial number : 1378
   Calibrated on : 22-Dec-15
   G             : 4.87110477e-003
   H             : 6.79586791e-004
   I             : 2.73110278e-005
   J             : 2.19661858e-006
   F0            : 1000.000
   Slope         : 1.00000000
   Offset        : 0.0000
```

2) Frequency 1, Conductivity

```
   Serial number : 2929
   Calibrated on : 10-Dec-15
   G             : -1.06031742e+001
   H             : 1.42146472e+000
   I             : 2.09000083e-004
   J             : 5.16164064e-005
   CTcor         : 3.2500e-006
   CPcor         : -9.57000000e-008
   Slope         : 1.00000000
   Offset        : 0.00000
```

3) Frequency 2, Pressure, Digiquartz with TC

```
   Serial number : 0329
   Calibrated on : 04-Dec-09
   C1            : -4.499631e+004
   C2            : 4.598757e-001
   C3            : 1.505020e-002
   D1            : 3.936600e-002
   D2            : 0.000000e+000
   T1            : 3.004570e+001
   T2            : -1.880753e-004
   T3            : 4.727060e-006
   T4            : -1.923520e-009
   T5            : 0.000000e+000
   Slope         : 0.99996509
   Offset        : -0.27039
   AD590M        : 1.280100e-002
   AD590B        : -9.240166e+000
```

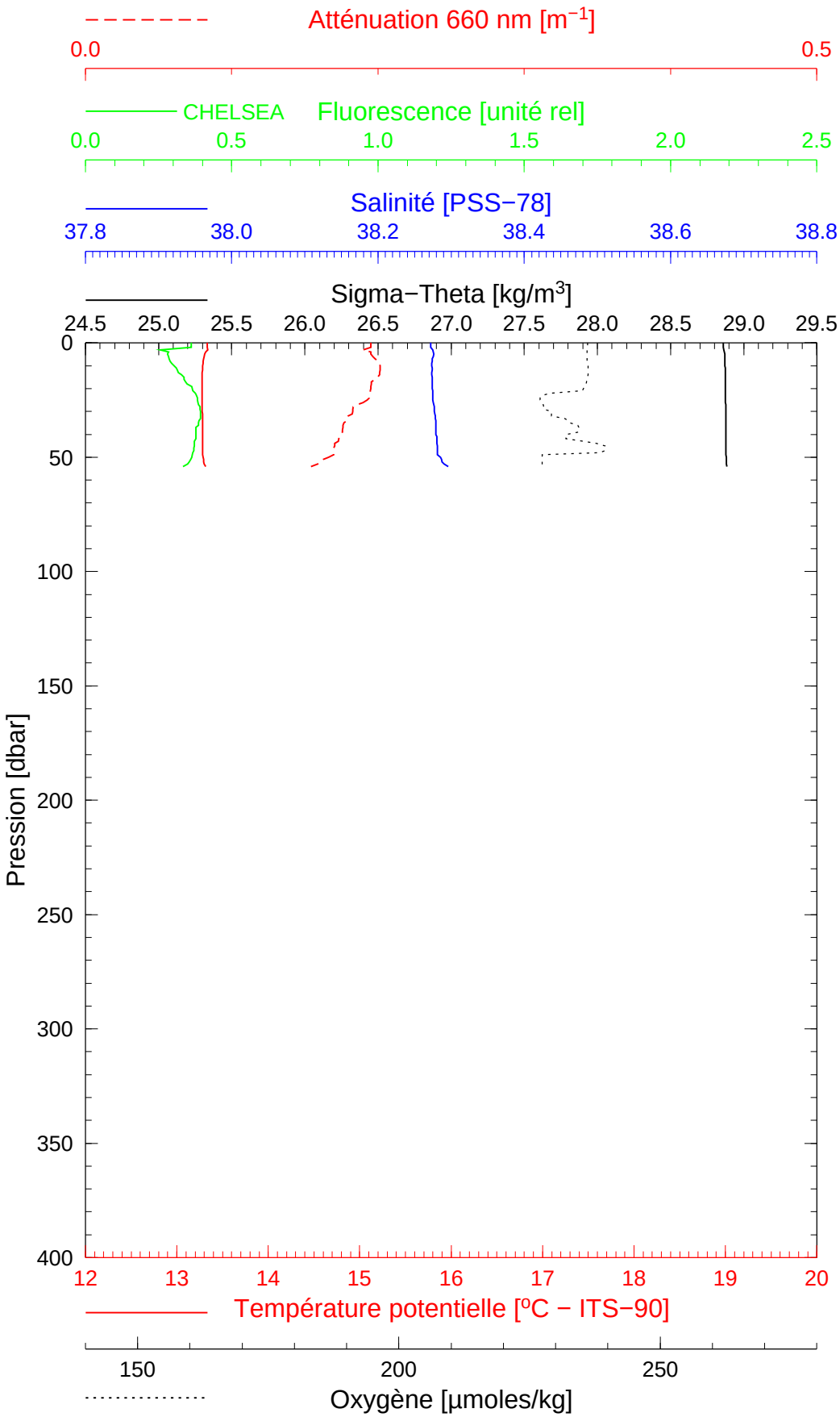
4) A/D voltage 0, Oxygen, SBE 43

```
   Serial number : 0378
   Calibrated on : 02-Dec-15
   Equation      : Sea-Bird
   Soc           : 3.73790e-001
   Offset        : -6.63100e-001
   A             : -3.20000e-003
   B             : 1.66470e-004
   C             : -2.92560e-006
   E             : 3.60000e-002
   Tau20         : 1.19000e+000
```

```
   D1            : 1.92634e-004
   D2            : -4.64803e-002
   H1            : -3.30000e-002
   H2            : 5.00000e+003
   H3            : 1.45000e+003

5) A/D voltage 1, Free

6) A/D voltage 2, User Polynomial

   Serial number : 171
   Calibrated on : 19May2014
   Sensor name   : RINKOIII_DO
   A0            : 0.00000000
   A1            : 1.00000000
   A2            : 0.00000000
   A3            : 0.00000000

7) A/D voltage 3, User Polynomial, 2

   Serial number : 171
   Calibrated on : 12May2014
   Sensor name   : RINKOIII_Temp
   A0            : -5.25367500
   A1            : 16.66254000
   A2            : -2.13105300
   A3            : 0.45564880

8) A/D voltage 4, 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 5, Transmissometer, WET Labs C-Star

   Serial number : 887DR
   Calibrated on : 11-sept-2015
   M             : 21.3083
   B             : -0.1065
   Path length   : 0.250

Scan length                  : 28
```

BOUSSOLE 169 **07/03/2016** **BOUS160307_01**

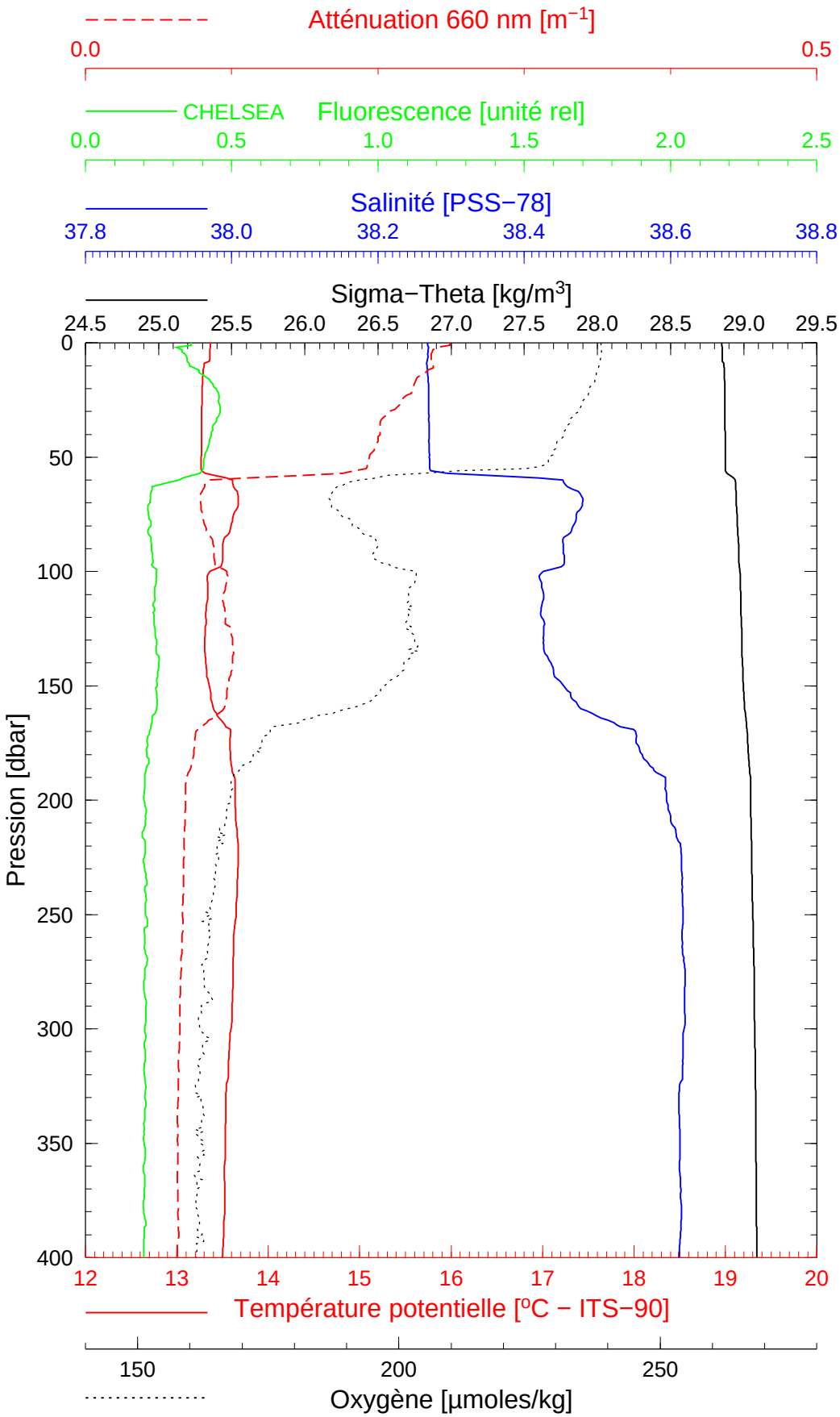
BOUS001



Date	*07/03/2016*	*Latitude*	*43o22.166 N*
Heure déb	*10h 36min [TU]*	*Longitude*	*07o53.868 E*

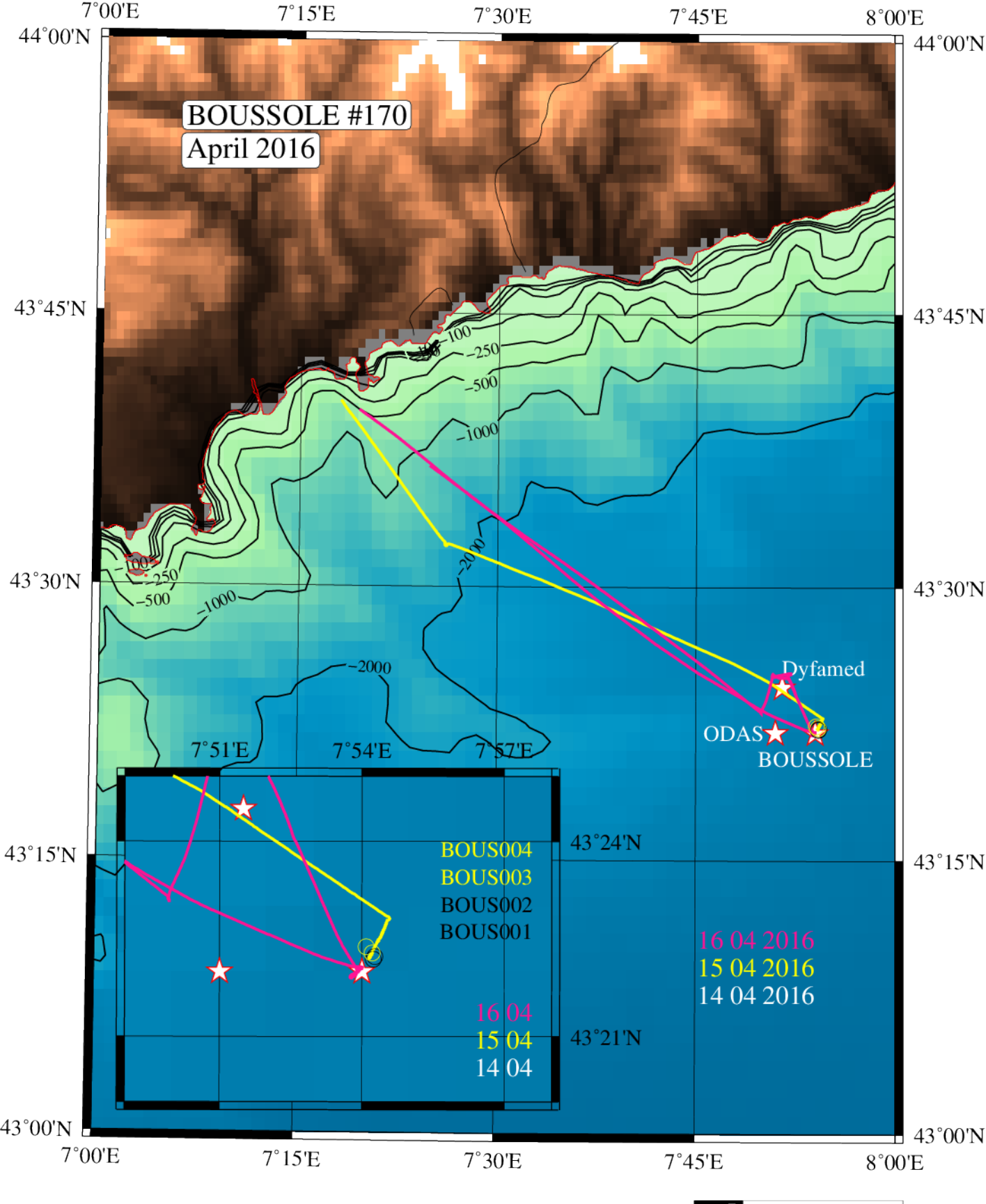
BOUSSOLE 169 **07/03/2016** **BOUS160307_02**

BOUS002



Date *07/03/2016* *Latitude* *43o22.446 N*

Heure déb *12h 01min [TU]* *Longitude* *07o53.935 E*


BOUSSOLE #170
April 2016
7°00'E
7°15'E
7°30'E
7°45'E
8°00'E
44°00'N
43°45'N
43°30'N
43°15'N
43°00'N
-100
-250
-500
-1000
-2000
Dyfamed
ODAS
BOUSSOLE
7°51'E
7°54'E
7°57'E
43°24'N
43°21'N
BOUS004
BOUS003
BOUS002
BOUS001
16 04
15 04
14 04
16 04 2016
15 04 2016
14 04 2016
GMT 2017 Apr 25 08:39:23

Date: 08/03/2017

Instrument configuration file: C:\boussole\Data\CTD\2016\avril2016\ctd\boussole_avr
il2016.xmlcon

Configuration report for SBE 911plus/917plus CTD

```
Frequency channels suppressed : 2
Voltage words suppressed      : 1
Computer interface            : RS-232C
Deck unit                     : SBE11plus Firmware Version >= 5.0
Scans to average              : 1
NMEA position data added      : Yes
NMEA depth data added         : No
NMEA time added               : No
NMEA device connected to      : deck unit
Surface PAR voltage added     : No
Scan time added               : No
```

1) Frequency 0, Temperature

```
   Serial number : 1378
   Calibrated on : 22-Dec-15
   G             : 4.87110477e-003
   H             : 6.79586791e-004
   I             : 2.73110278e-005
   J             : 2.19661858e-006
   F0            : 1000.000
   Slope         : 1.00000000
   Offset        : 0.0000
```

2) Frequency 1, Conductivity

```
   Serial number : 2929
   Calibrated on : 10-Dec-15
   G             : -1.06031742e+001
   H             : 1.42146472e+000
   I             : 2.09000083e-004
   J             : 5.16164064e-005
   CTcor         : 3.2500e-006
   CPcor         : -9.57000000e-008
   Slope         : 1.00000000
   Offset        : 0.00000
```

3) Frequency 2, Pressure, Digiquartz with TC

```
   Serial number : 0329
   Calibrated on : 04-Dec-09
   C1            : -4.499631e+004
   C2            : 4.598757e-001
   C3            : 1.505020e-002
   D1            : 3.936600e-002
   D2            : 0.000000e+000
   T1            : 3.004570e+001
   T2            : -1.880753e-004
   T3            : 4.727060e-006
   T4            : -1.923520e-009
   T5            : 0.000000e+000
   Slope         : 0.99996509
   Offset        : -0.27039
   AD590M        : 1.280100e-002
   AD590B        : -9.240166e+000
```

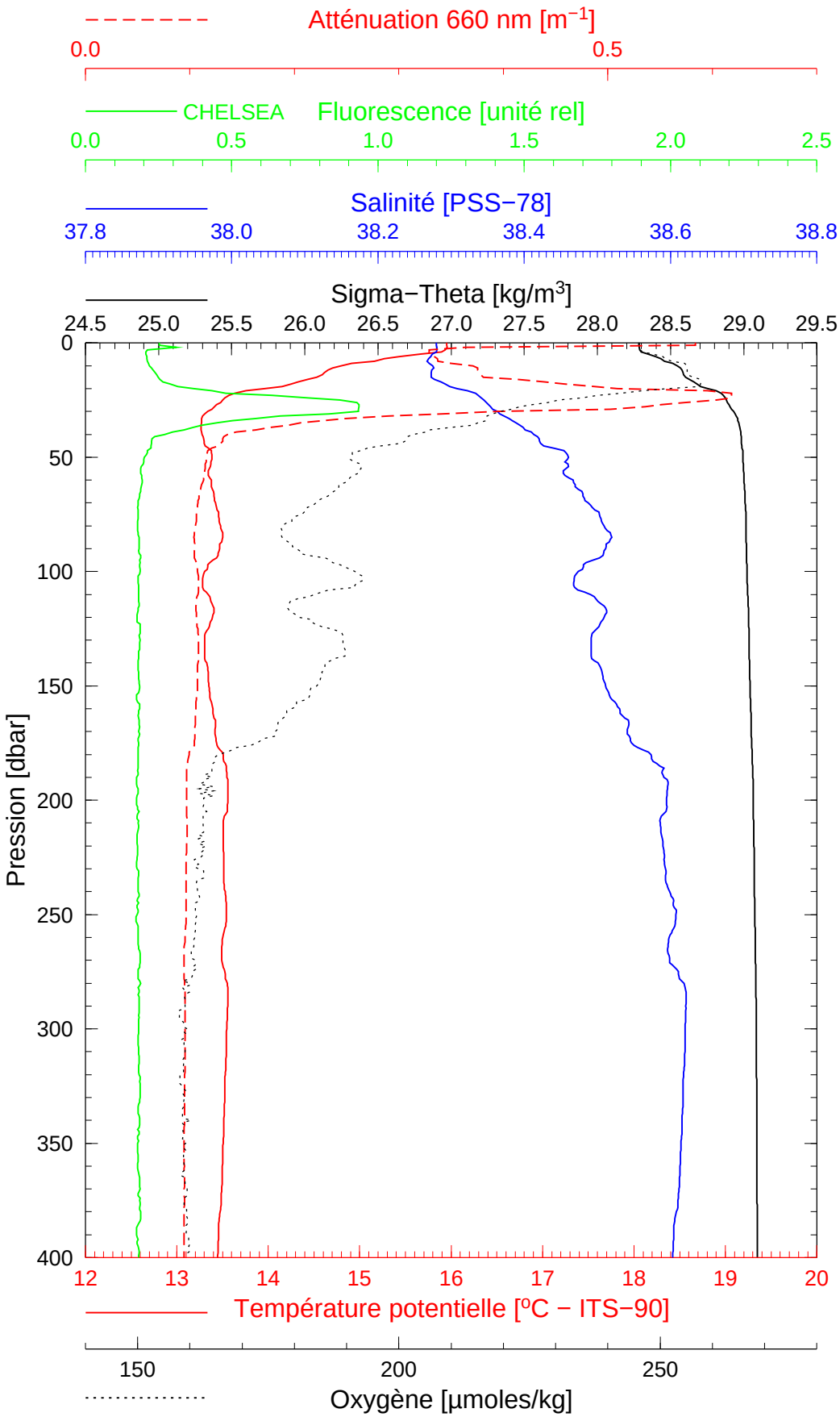
4) A/D voltage 0, Oxygen, SBE 43

```
   Serial number : 0378
   Calibrated on : 02-Dec-15
   Equation      : Sea-Bird
   Soc           : 3.73790e-001
   Offset        : -6.63100e-001
   A             : -3.20000e-003
   B             : 1.66470e-004
   C             : -2.92560e-006
   E             : 3.60000e-002
   Tau20         : 1.19000e+000
```

```
   D1            : 1.92634e-004
   D2            : -4.64803e-002
   H1            : -3.30000e-002
   H2            : 5.00000e+003
   H3            : 1.45000e+003

5) A/D voltage 1, Free

6) A/D voltage 2, User Polynomial

   Serial number : 171
   Calibrated on : 19May2014
   Sensor name   : RINKOIII_DO
   A0            : 0.00000000
   A1            : 1.00000000
   A2            : 0.00000000
   A3            : 0.00000000

7) A/D voltage 3, User Polynomial, 2

   Serial number : 171
   Calibrated on : 12May2014
   Sensor name   : RINKOIII_Temp
   A0            : -5.25367500
   A1            : 16.66254000
   A2            : -2.13105300
   A3            : 0.45564880

8) A/D voltage 4, 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 5, Transmissometer, WET Labs C-Star

   Serial number : 887DR
   Calibrated on : 11-sept-2015
   M             : 21.3083
   B             : -0.1065
   Path length   : 0.250

Scan length                  : 28
```

BOUSSOLE 170 **13/04/2016** **BOUS160413_01**

BOUS001

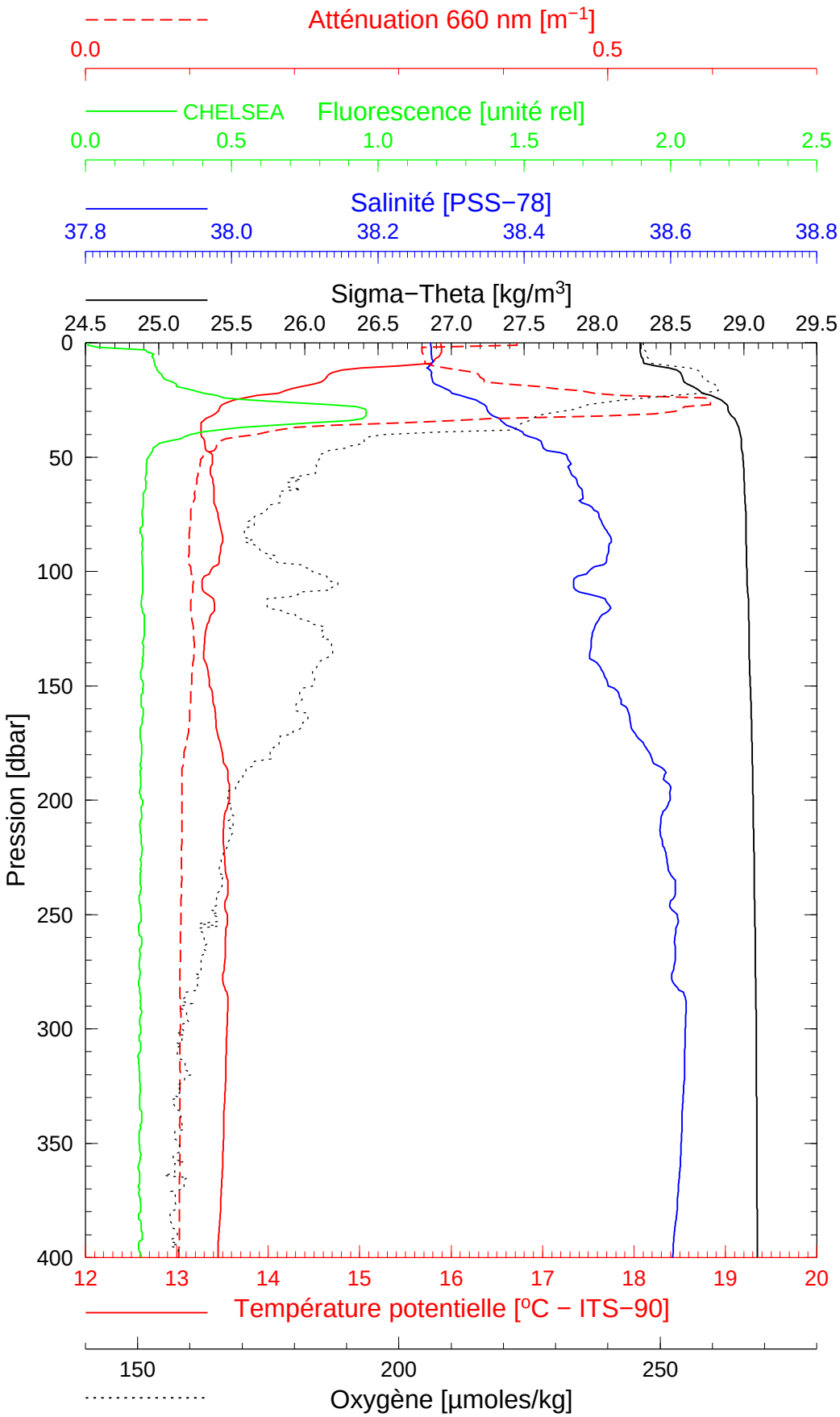


Date *13/04/2016* *Latitude* *43°22.189 N*

Heure déb *14h 11min [TU]* *Longitude* *07°54.240 E*

BOUSSOLE 170 **13/04/2016** **BOUS160413_02**

BOUS002

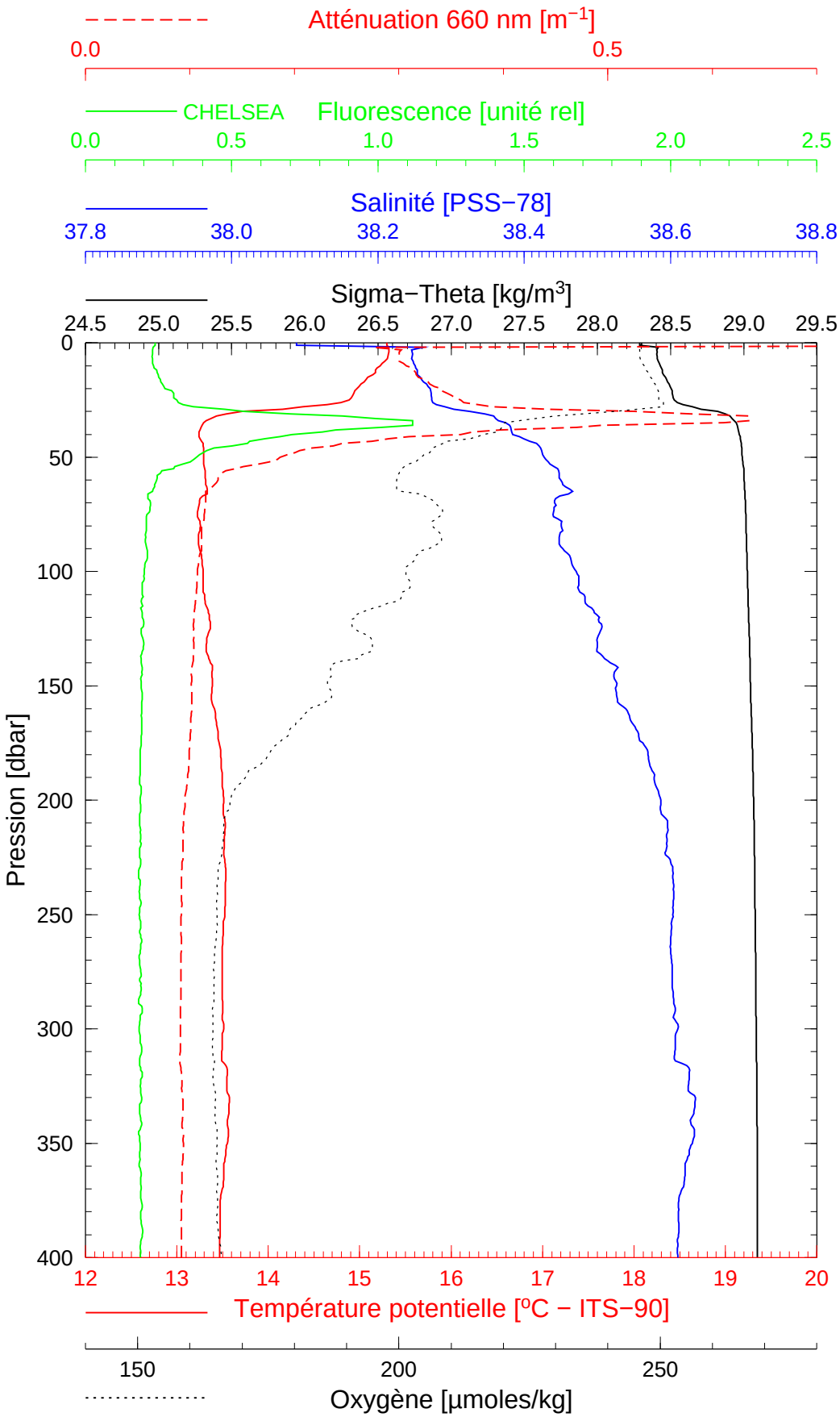


Date *13/04/2016* *Latitude* *43°22.228 N*

Heure déb *14h 58min [TU]* *Longitude* *07°54.272 E*

BOUSSOLE 170 **15/04/2016** **BOUS160415_01**

BOUS003

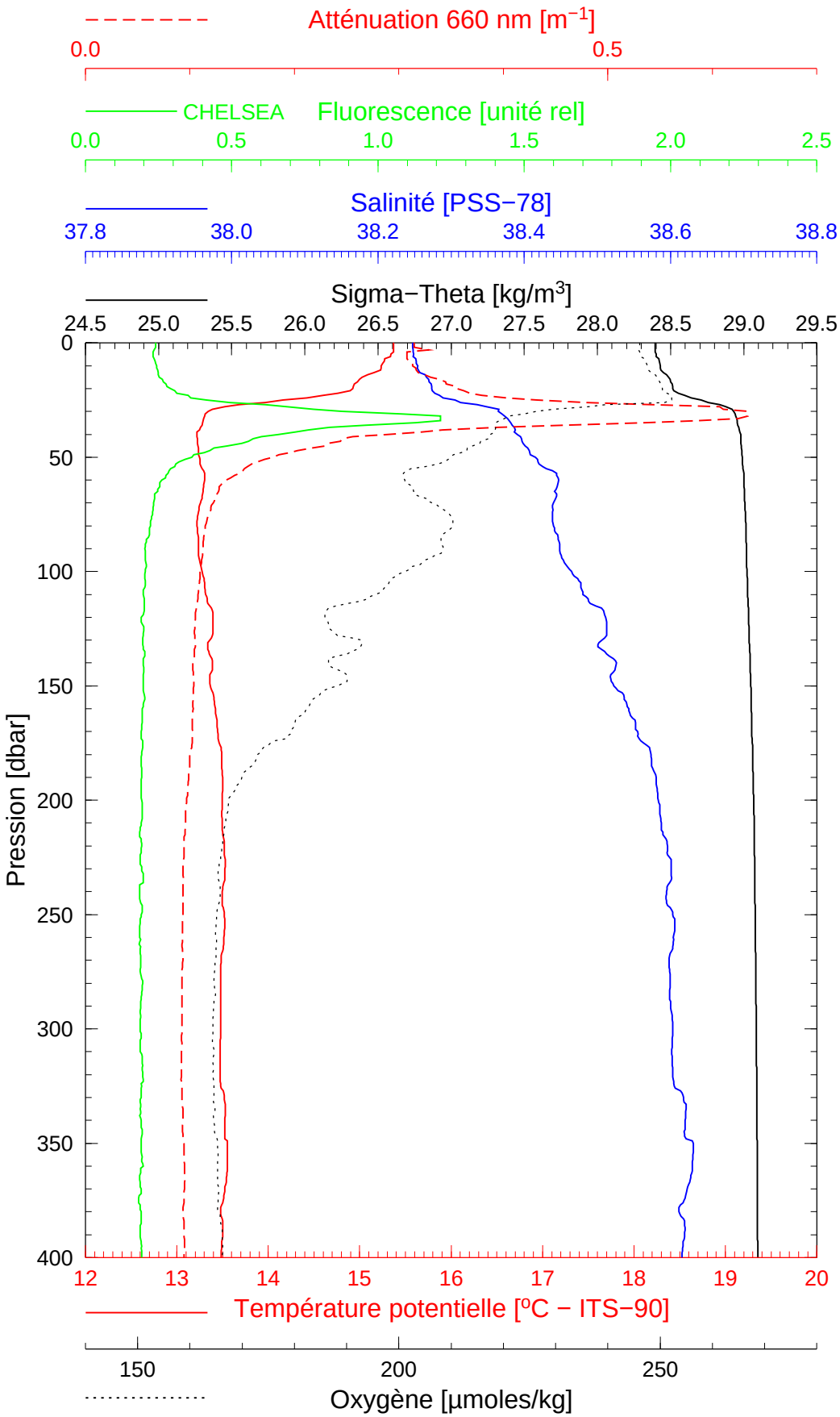


Date *15/04/2016* *Latitude* *43°22.380 N*

Heure déb *10h 54min [TU]* *Longitude* *07°54.090 E*

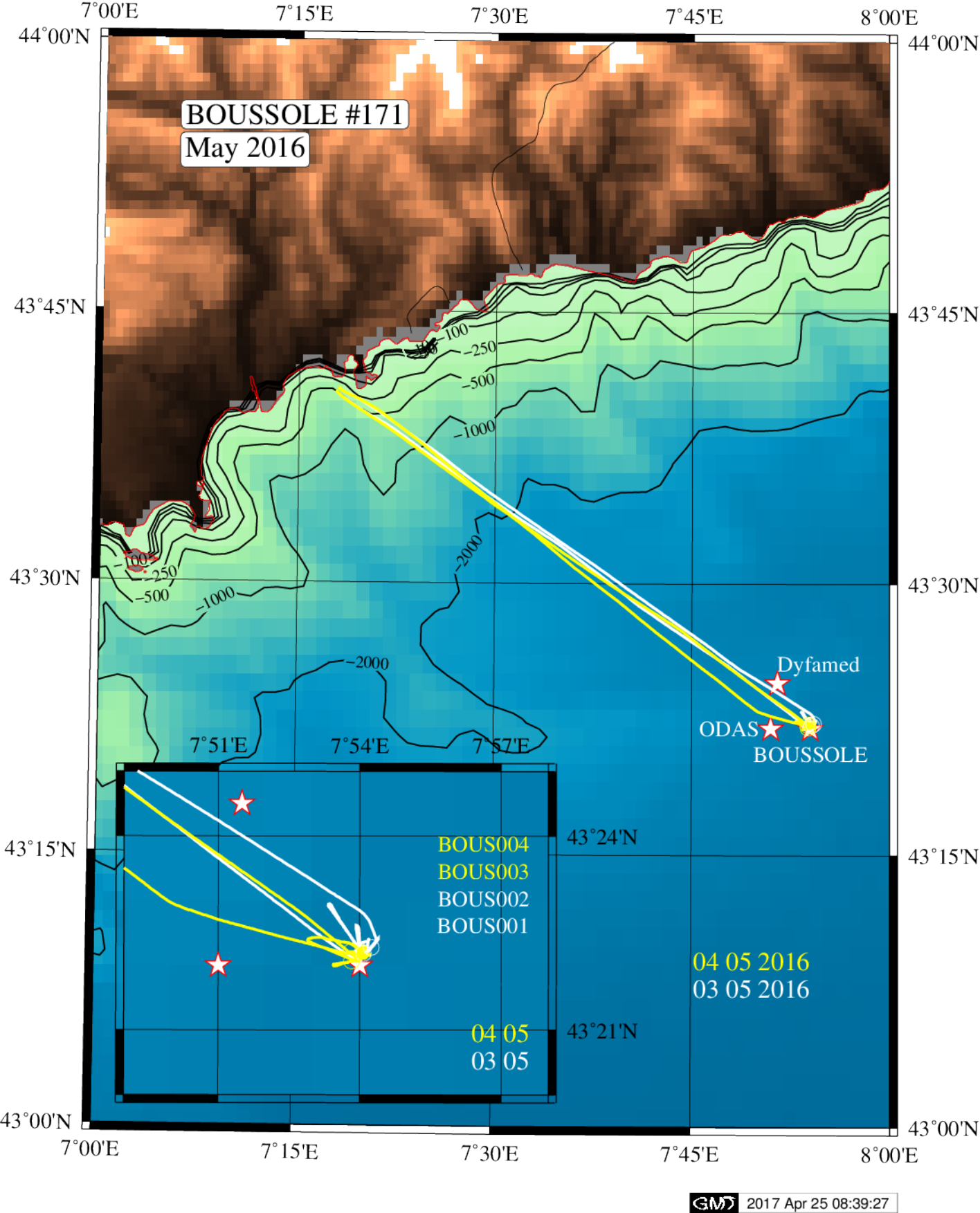
BOUSSOLE 170 **15/04/2016** **BOUS160415_02**

BOUS004



Date *15/04/2016* *Latitude* *43°22.282 N*

Heure déb *12h 05min [TU]* *Longitude* *07°54.215 E*


BOUSSOLE #171
May 2016
7°00'E
7°15'E
7°30'E
7°45'E
8°00'E
44°00'N
43°45'N
43°30'N
43°15'N
43°00'N
-100
-250
-500
-1000
-2000
Dyfamed
ODAS
BOUSSOLE
7°51'E
7°54'E
7°57'E
43°24'N
43°21'N
BOUS004
BOUS003
BOUS002
BOUS001
04 05 2016
03 05 2016
04 05
03 05
GMT 2017 Apr 25 08:39:27

Date: 08/03/2017

Instrument configuration file: C:\boussole\Data\CTD\2016\mai2016\ctd\boussole_mai2016.xmlcon

Configuration report for SBE 911plus/917plus CTD

```
Frequency channels suppressed : 2
Voltage words suppressed      : 1
Computer interface            : RS-232C
Deck unit                     : SBE11plus Firmware Version >= 5.0
Scans to average              : 1
NMEA position data added      : Yes
NMEA depth data added         : No
NMEA time added               : No
NMEA device connected to      : deck unit
Surface PAR voltage added     : No
Scan time added               : No
```

1) Frequency 0, Temperature

```
   Serial number : 1378
   Calibrated on : 22-Dec-15
   G             : 4.87110477e-003
   H             : 6.79586791e-004
   I             : 2.73110278e-005
   J             : 2.19661858e-006
   F0            : 1000.000
   Slope         : 1.00000000
   Offset        : 0.0000
```

2) Frequency 1, Conductivity

```
   Serial number : 2929
   Calibrated on : 10-Dec-15
   G             : -1.06031742e+001
   H             : 1.42146472e+000
   I             : 2.09000083e-004
   J             : 5.16164064e-005
   CTcor         : 3.2500e-006
   CPcor         : -9.57000000e-008
   Slope         : 1.00000000
   Offset        : 0.00000
```

3) Frequency 2, Pressure, Digiquartz with TC

```
   Serial number : 0329
   Calibrated on : 04-Dec-09
   C1            : -4.499631e+004
   C2            : 4.598757e-001
   C3            : 1.505020e-002
   D1            : 3.936600e-002
   D2            : 0.000000e+000
   T1            : 3.004570e+001
   T2            : -1.880753e-004
   T3            : 4.727060e-006
   T4            : -1.923520e-009
   T5            : 0.000000e+000
   Slope         : 0.99996509
   Offset        : -0.27039
   AD590M        : 1.280100e-002
   AD590B        : -9.240166e+000
```

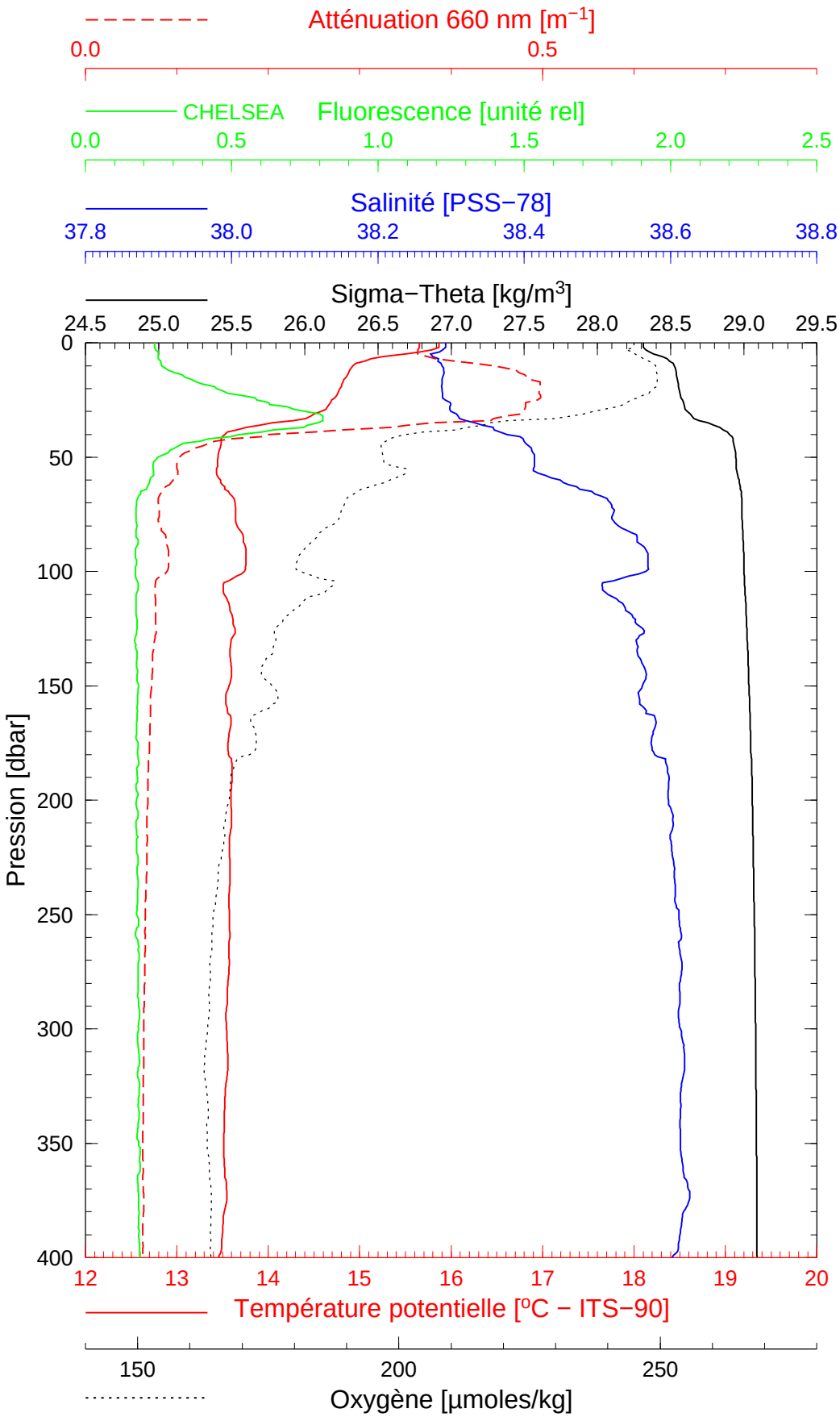
4) A/D voltage 0, Oxygen, SBE 43

```
   Serial number : 0378
   Calibrated on : 02-Dec-15
   Equation      : Sea-Bird
   Soc           : 3.73790e-001
   Offset        : -6.63100e-001
   A             : -3.20000e-003
   B             : 1.66470e-004
   C             : -2.92560e-006
   E             : 3.60000e-002
   Tau20         : 1.19000e+000
```

```
   D1            : 1.92634e-004
   D2            : -4.64803e-002
   H1            : -3.30000e-002
   H2            : 5.00000e+003
   H3            : 1.45000e+003

5) A/D voltage 1, Free

6) A/D voltage 2, User Polynomial

   Serial number : 171
   Calibrated on : 19May2014
   Sensor name   : RINKOIII_DO
   A0            : 0.00000000
   A1            : 1.00000000
   A2            : 0.00000000
   A3            : 0.00000000

7) A/D voltage 3, User Polynomial, 2

   Serial number : 171
   Calibrated on : 12May2014
   Sensor name   : RINKOIII_Temp
   A0            : -5.25367500
   A1            : 16.66254000
   A2            : -2.13105300
   A3            : 0.45564880

8) A/D voltage 4, 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 5, Transmissometer, WET Labs C-Star

   Serial number : 887DR
   Calibrated on : 11-sept-2015
   M             : 21.3083
   B             : -0.1065
   Path length   : 0.250

Scan length                  : 28
```

BOUSSOLE 171 **03/05/2016** **BOUS160503_01**

BOUS001

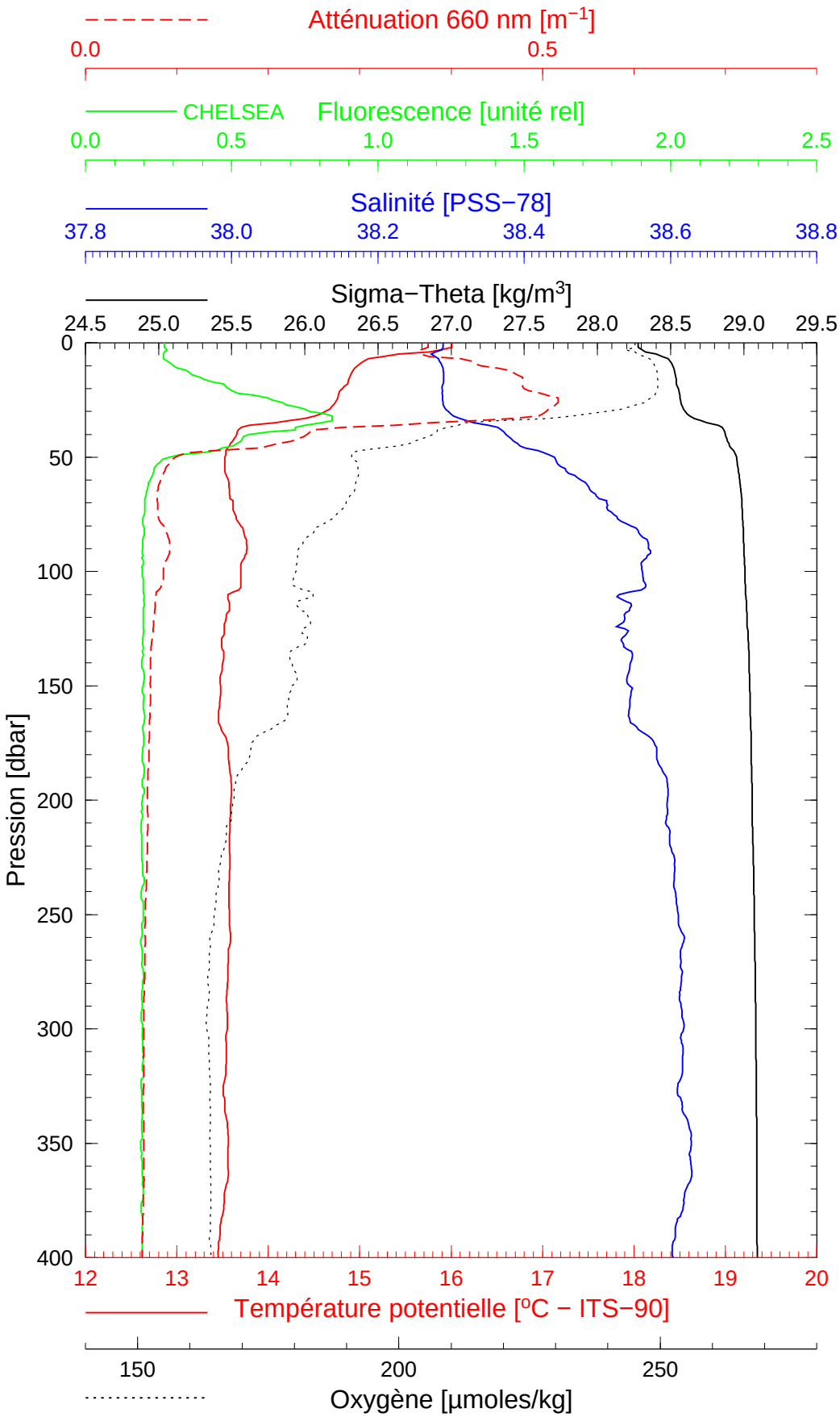


Date *03/05/2016* *Latitude* *43o22.180 N*

Heure déb *12h 49min [TU]* *Longitude* *07o54.080 E*

BOUSSOLE 171 **03/05/2016** **BOUS160503_02**

BOUS002

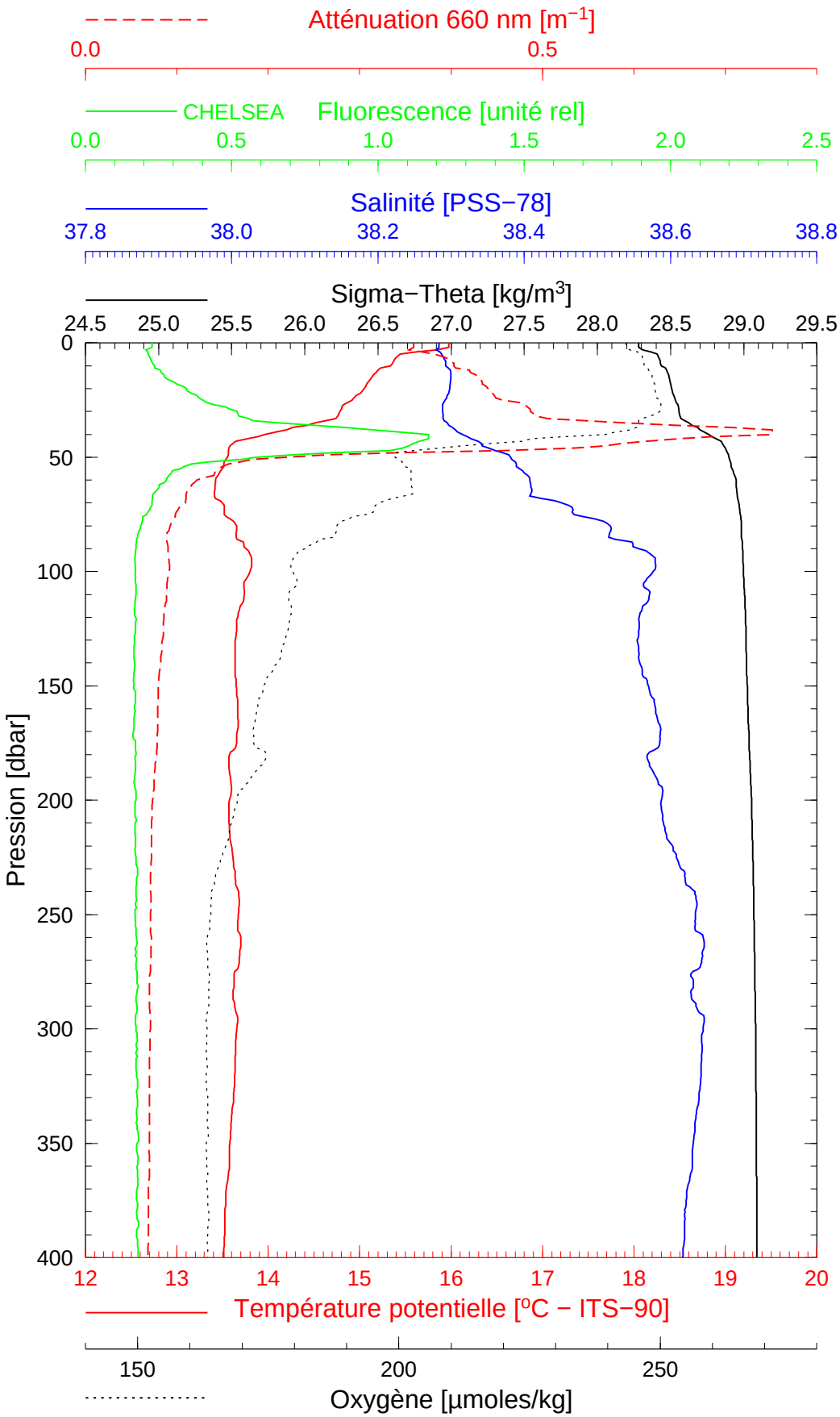


Date *03/05/2016* *Latitude* *43°22.276 N*

Heure déb *14h 14min [TU]* *Longitude* *07°54.244 E*

BOUSSOLE 171 **04/05/2016** **BOUS160504_01**

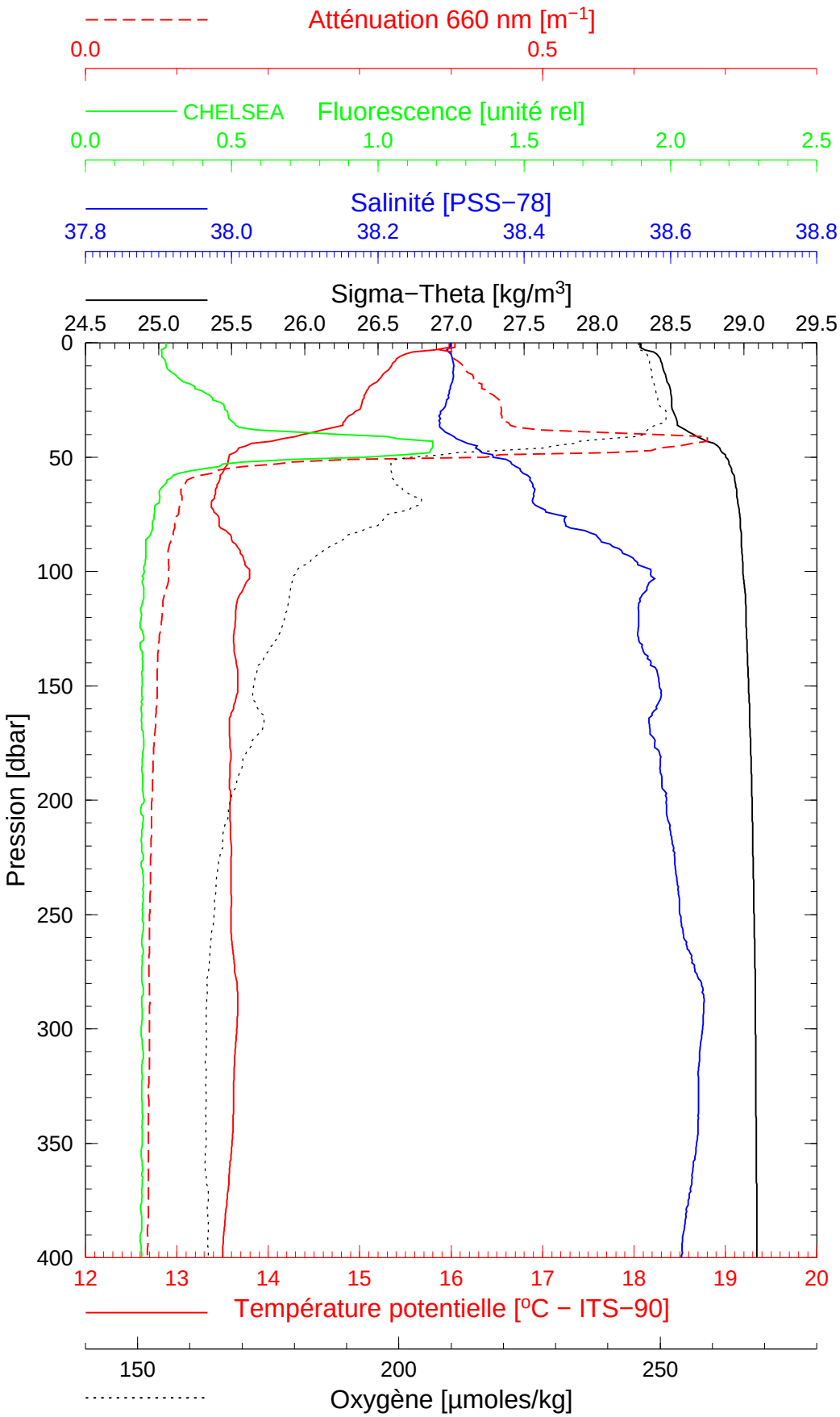
BOUS003



Date	*04/05/2016*	*Latitude*	*43°22.069 N*
Heure déb	*11h 57min [TU]*	*Longitude*	*07°53.827 E*

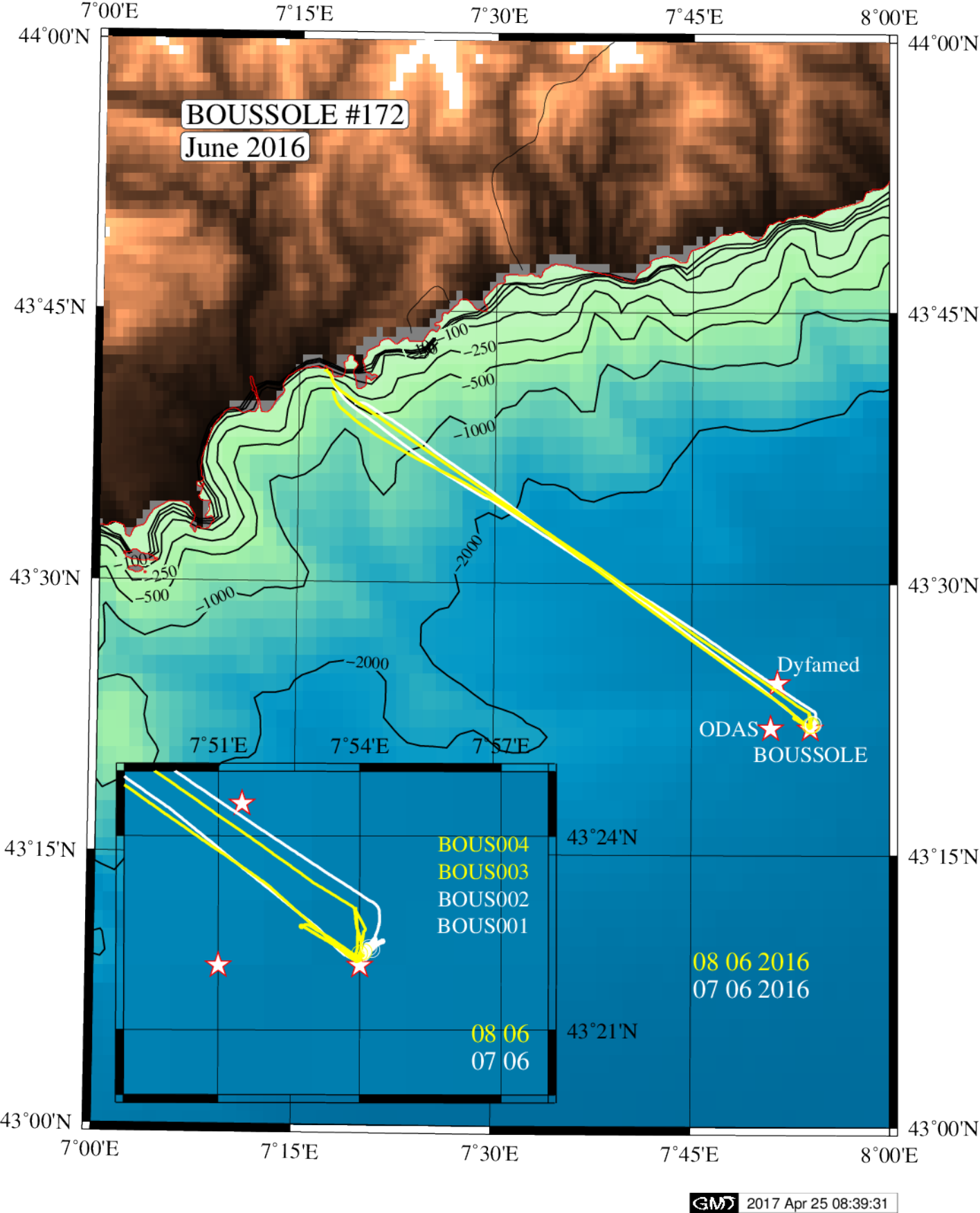
BOUSSOLE 171 **04/05/2016** **BOUS160504_02**

BOUS004



Date *04/05/2016* *Latitude* *43°22.211 N*

Heure déb *13h 12min [TU]* *Longitude* *07°53.818 E*


BOUSSOLE #172
June 2016
7°00'E
7°15'E
7°30'E
7°45'E
8°00'E
44°00'N
43°45'N
43°30'N
43°15'N
43°00'N
-100
-250
-500
-1000
-2000
Dyfamed
ODAS
BOUSSOLE
7°51'E
7°54'E
7°57'E
43°24'N
43°21'N
BOUS004
BOUS003
BOUS002
BOUS001
08 06 2016
07 06 2016
08 06
07 06
GMT 2017 Apr 25 08:39:31

Date: 08/03/2017

Instrument configuration file: C:\boussole\Data\CTD\2016\juin2016\ctd\boussole_juin 2016.xmlcon

Configuration report for SBE 911plus/917plus CTD

```
Frequency channels suppressed : 2
Voltage words suppressed      : 1
Computer interface            : RS-232C
Deck unit                     : SBE11plus Firmware Version >= 5.0
Scans to average              : 1
NMEA position data added      : Yes
NMEA depth data added         : No
NMEA time added               : No
NMEA device connected to      : deck unit
Surface PAR voltage added     : No
Scan time added               : No
```

1) Frequency 0, Temperature

```
   Serial number : 1378
   Calibrated on : 22-Dec-15
   G             : 4.87110477e-003
   H             : 6.79586791e-004
   I             : 2.73110278e-005
   J             : 2.19661858e-006
   F0            : 1000.000
   Slope         : 1.00000000
   Offset        : 0.0000
```

2) Frequency 1, Conductivity

```
   Serial number : 2929
   Calibrated on : 10-Dec-15
   G             : -1.06031742e+001
   H             : 1.42146472e+000
   I             : 2.09000083e-004
   J             : 5.16164064e-005
   CTcor         : 3.2500e-006
   CPcor         : -9.57000000e-008
   Slope         : 1.00000000
   Offset        : 0.00000
```

3) Frequency 2, Pressure, Digiquartz with TC

```
   Serial number : 0329
   Calibrated on : 04-Dec-09
   C1            : -4.499631e+004
   C2            : 4.598757e-001
   C3            : 1.505020e-002
   D1            : 3.936600e-002
   D2            : 0.000000e+000
   T1            : 3.004570e+001
   T2            : -1.880753e-004
   T3            : 4.727060e-006
   T4            : -1.923520e-009
   T5            : 0.000000e+000
   Slope         : 0.99996509
   Offset        : -0.27039
   AD590M        : 1.280100e-002
   AD590B        : -9.240166e+000
```

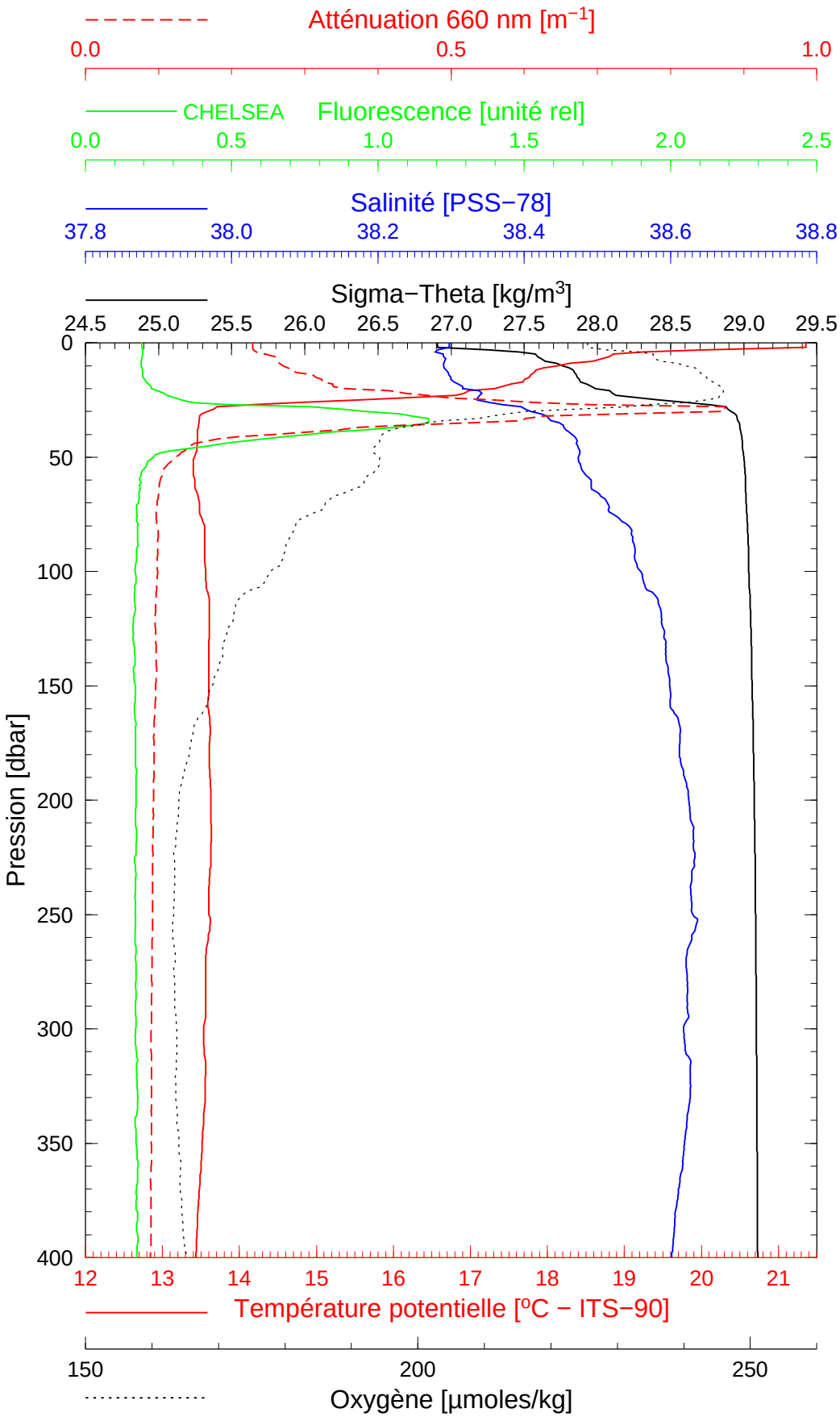
4) A/D voltage 0, Oxygen, SBE 43

```
   Serial number : 0378
   Calibrated on : 02-Dec-15
   Equation      : Sea-Bird
   Soc           : 3.73790e-001
   Offset        : -6.63100e-001
   A             : -3.20000e-003
   B             : 1.66470e-004
   C             : -2.92560e-006
   E             : 3.60000e-002
   Tau20         : 1.19000e+000
```

```
   D1            : 1.92634e-004
   D2            : -4.64803e-002
   H1            : -3.30000e-002
   H2            : 5.00000e+003
   H3            : 1.45000e+003

5) A/D voltage 1, Free

6) A/D voltage 2, Free

7) A/D voltage 3, Free

8) A/D voltage 4, 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 5, Transmissometer, WET Labs C-Star

   Serial number : 887DR
   Calibrated on : 11-sept-2015
   M             : 21.3083
   B             : -0.1065
   Path length   : 0.250

Scan length                  : 28
```

BOUSSOLE 172 **07/06/2016** **BOUS160607_01**

BOUS001

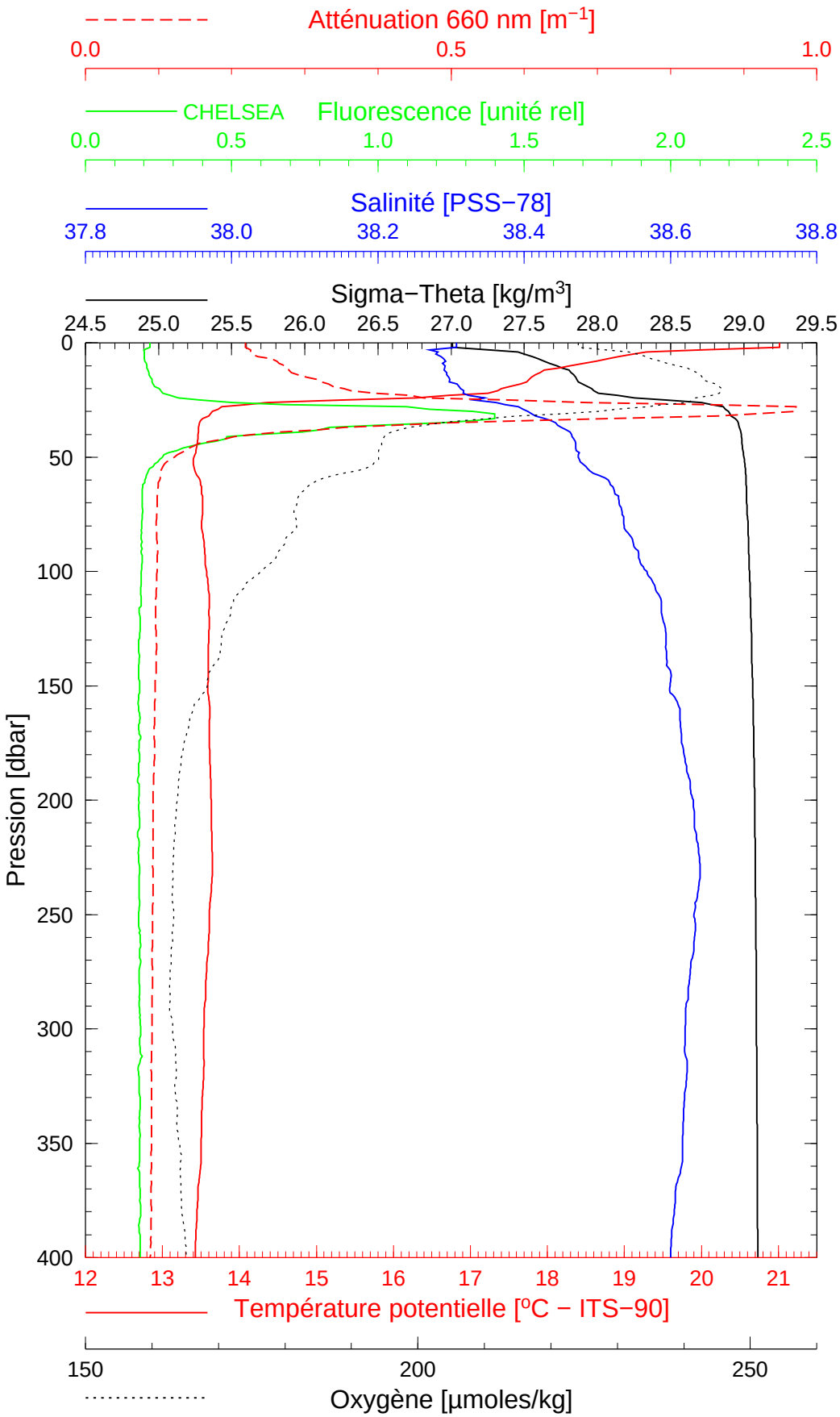


Date *07/06/2016* *Latitude* *43°22.270 N*

Heure déb *11h 16min [TU]* *Longitude* *07°54.200 E*

BOUSSOLE 172 **07/06/2016** **BOUS160607_02**

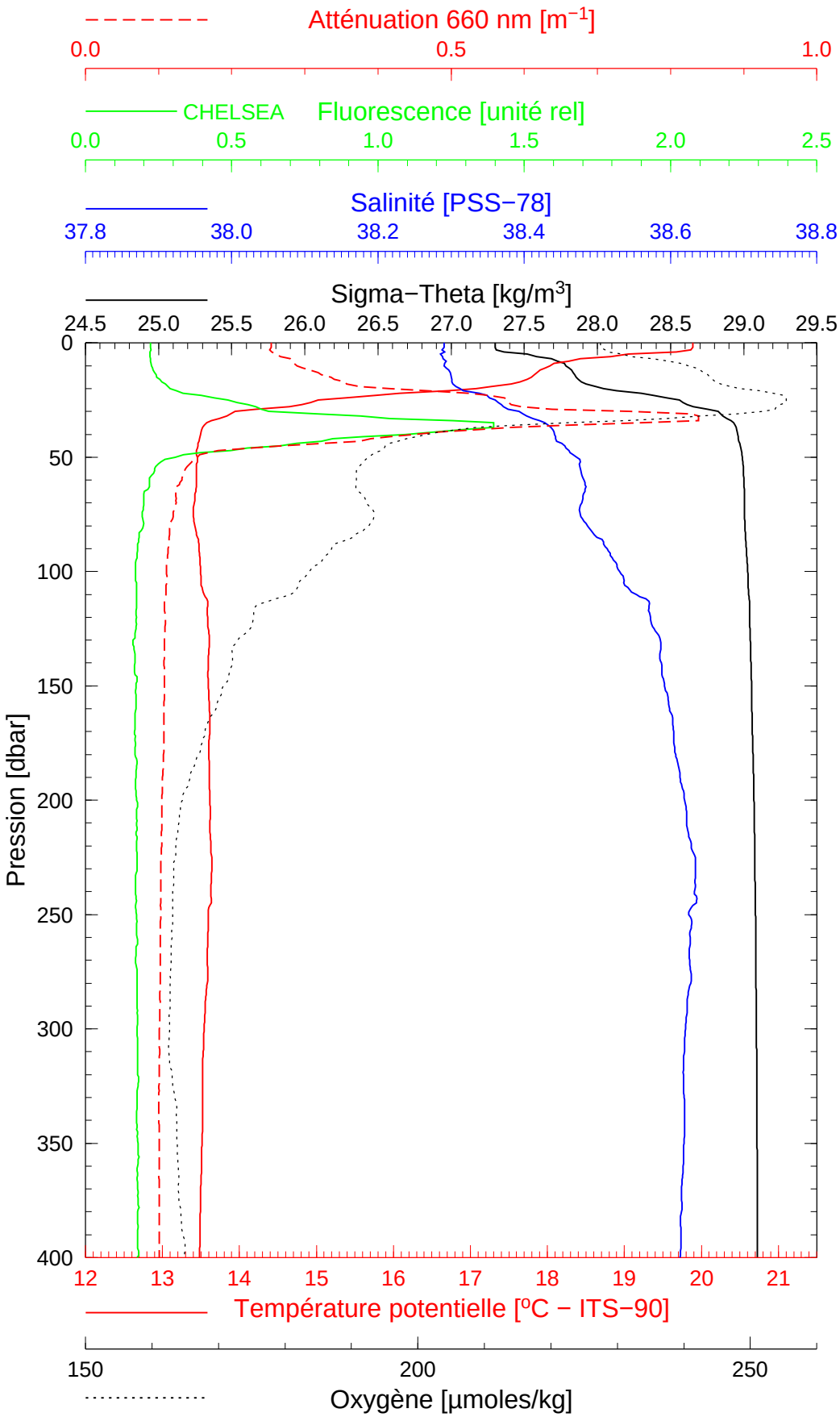
BOUS002



Date	*07/06/2016*	*Latitude*	*43°22.240 N*
Heure déb	*12h 12min [TU]*	*Longitude*	*07°54.258 E*

BOUSSOLE 172 **08/06/2016** **BOUS160608_01**

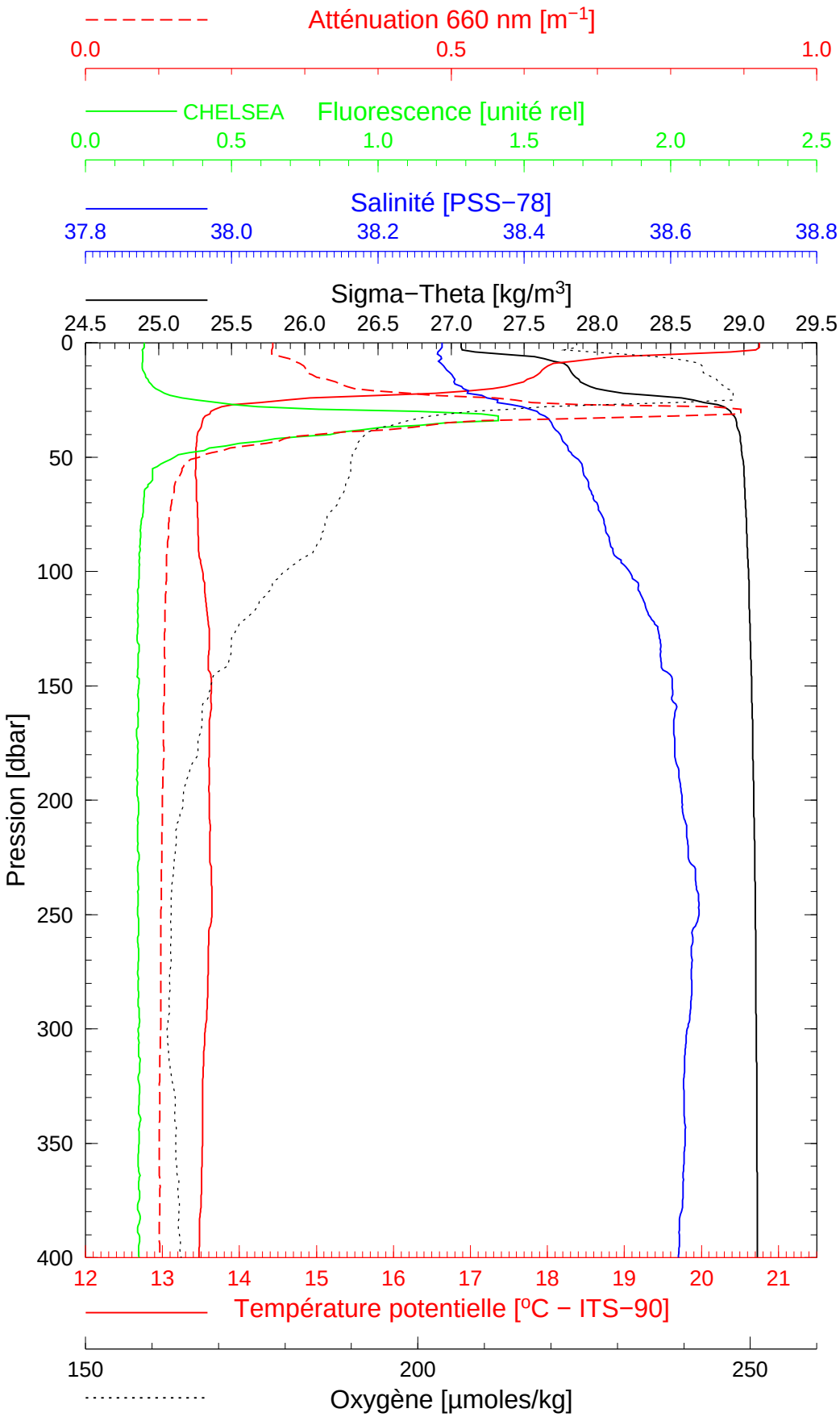
BOUS003



Date	*08/06/2016*	*Latitude*	*43°22.183 N*
Heure déb	*10h 25min [TU]*	*Longitude*	*07°54.000 E*

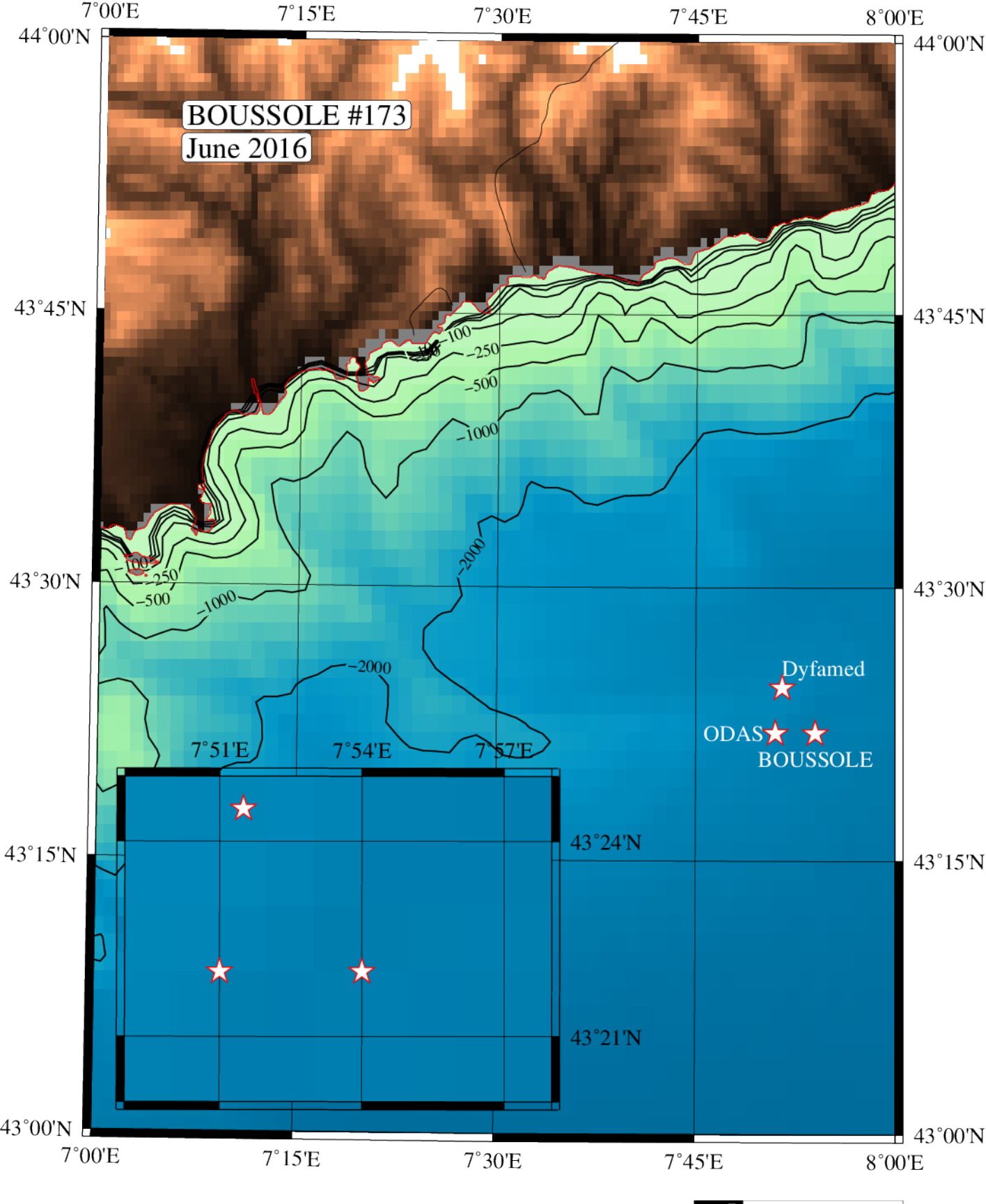
BOUSSOLE 172 **08/06/2016** **BOUS160608_02**

BOUS004



Date *08/06/2016* *Latitude* *43o22.212 N*

Heure déb *12h 26min [TU]* *Longitude* *07o54.094 E*


BOUSSOLE #173
June 2016
7°00'E
7°15'E
7°30'E
7°45'E
8°00'E
44°00'N
43°45'N
43°30'N
43°15'N
43°00'N
-100
-250
-500
-1000
-2000
Dyfamed
ODAS
BOUSSOLE
7°51'E
7°54'E
7°57'E
43°24'N
43°21'N
GMT 2017 Apr 25 08:39:35

Date: 08/03/2017

Instrument configuration file: C:\boussole\Data\CTD\2016\juil2016\ctd\raw\2016-06-29T111904.xmlcon

Configuration report for SBE 25plus Sealogger CTD

Usage: Process .XML file uploaded from CTD memory.
External voltage channels : 8

1) Frequency 0, Temperature

```
Serial number : 1814
Calibrated on : 16-Apr-15
G             : 4.88702663e-003
H             : 6.83416257e-004
I             : 2.81674361e-005
J             : 2.29533955e-006
F0            : 1000.000
Slope         : 1.00000000
Offset        : 0.0000
```

2) Frequency 1, Conductivity

```
Serial number : 1657
Calibrated on : 07-Aug-14
G             : -4.07187472e+000
H             : 4.65093715e-001
I             : -7.14920213e-004
J             : 5.60053884e-005
CTcor         : 3.2500e-006
CPcor         : -9.57000000e-008
Slope         : 1.00000000
Offset        : 0.00000
```

3) Count, Pressure, Strain Gauge

```
Serial number : 1012
Calibrated on : 02-Aug-12
PA0           : 2.69636522e-002
PA1           : 9.66714646e-005
PA2           : 1.97331959e-014
PTEMPA0       : -6.58405802e+001
PTEMPA1       : 5.13207647e+001
PTEMPA2       : -3.23065753e-001
PTCA0         : 8.38257099e+006
PTCA1         : 5.29289125e+001
PTCA2         : -1.77456048e+000
PTCB0         : 2.49461250e+001
PTCB1         : 2.50000000e-005
PTCB2         : 0.00000000e+000
Offset        : 0.000000
```

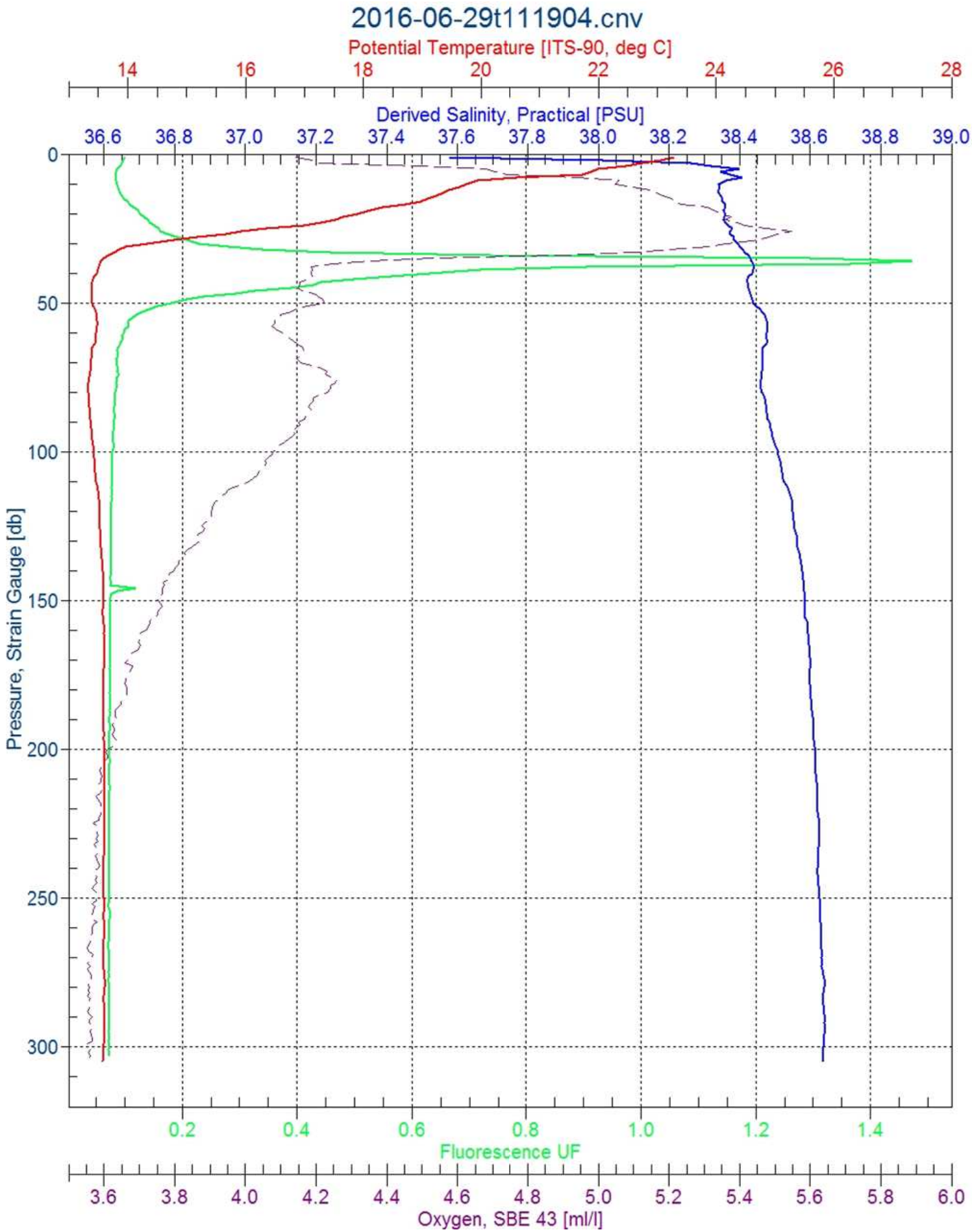
4) A/D voltage 0, Oxygen, SBE 43

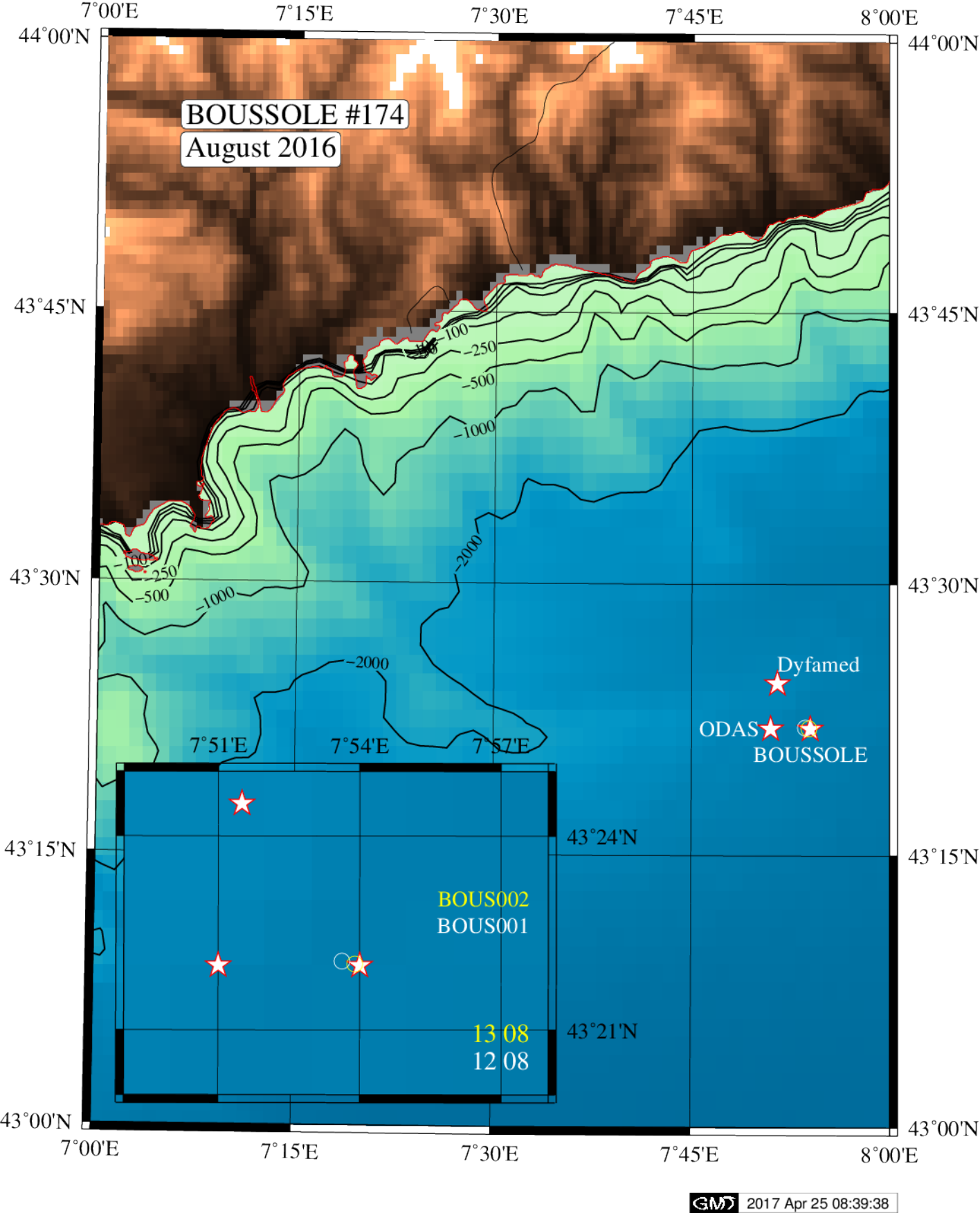
```
Serial number : 2396
Calibrated on : 30-Jul-14
Equation      : Sea-Bird
Soc           : 4.52590e-001
Offset        : -5.00000e-001
A             : -4.52300e-003
B             : 2.16220e-004
C             : -2.67940e-006
E             : 3.60000e-002
Tau20         : 1.24000e+000
D1            : 1.92634e-004
D2            : -4.64803e-002
H1            : -3.30000e-002
H2            : 5.00000e+003
H3            : 1.45000e+003
```

5) Unknown 1, Free

6) A/D voltage 2, Fluorometer, WET Labs WETstar

```
   Serial number : WS3S-213
   Calibrated on : 25-Aug-2014
   Blank output  : 0.060
   Scale factor  : 6.100

7) A/D voltage 3, Turbidity Meter, WET Labs, ECO-NTU

   Serial number : NO SENSOR
   Calibrated on :
   ScaleFactor   : 0.000000
   Dark output   : 0.000000

8) A/D voltage 4, PAR/Irradiance, Biospherical/Licor

   Serial number        : NO SENSOR
   Calibrated on        :
   M                    : 1.00000000
   B                    : 0.00000000
   Calibration constant : 0.19615600
   Multiplier           : 1.00000000
   Offset               : 0.00000000

9) A/D voltage 5, Free

10) Unknown 6, Free

11) Unknown 7, Free

Serial Sensor data not processed in this version of Seasoft.
Sample interval            : 0.06250000
Scan length                : 72
```


2016-06-29t111904.cnv
Potential Temperature [ITS-90, deg C]
14 16 18 20 22 24 26 28
Derived Salinity, Practical [PSU]
36.6 36.8 37.0 37.2 37.4 37.6 37.8 38.0 38.2 38.4 38.6 38.8 39.0
Pressure, Strain Gauge [db]
0 50 100 150 200 250 300
0.2 0.4 0.6 0.8 1.0 1.2 1.4
Fluorescence UF
3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8 6.0
Oxygen, SBE 43 [ml/l]


BOUSSOLE #174
August 2016
7°00'E
7°15'E
7°30'E
7°45'E
8°00'E
44°00'N
43°45'N
43°30'N
43°15'N
43°00'N
-100
-250
-500
-1000
-2000
Dyfamed
ODAS
BOUSSOLE
7°51'E
7°54'E
7°57'E
43°24'N
43°21'N
BOUS002
BOUS001
13 08
12 08
GMT 2017 Apr 25 08:39:38

Date: 08/03/2017

Instrument configuration file: C:\boussole\Data\CTD\2016\aout2016\ctd\boussole_aout 2016.xmlcon

Configuration report for SBE 911plus/917plus CTD

```
Frequency channels suppressed : 2
Voltage words suppressed      : 1
Computer interface            : RS-232C
Deck unit                     : SBE11plus Firmware Version >= 5.0
Scans to average              : 1
NMEA position data added      : Yes
NMEA depth data added         : No
NMEA time added               : No
NMEA device connected to      : deck unit
Surface PAR voltage added     : No
Scan time added               : No
```

1) Frequency 0, Temperature

```
   Serial number : 1378
   Calibrated on : 22-Dec-15
   G             : 4.87110477e-003
   H             : 6.79586791e-004
   I             : 2.73110278e-005
   J             : 2.19661858e-006
   F0            : 1000.000
   Slope         : 1.00000000
   Offset        : 0.0000
```

2) Frequency 1, Conductivity

```
   Serial number : 2929
   Calibrated on : 10-Dec-15
   G             : -1.06031742e+001
   H             : 1.42146472e+000
   I             : 2.09000083e-004
   J             : 5.16164064e-005
   CTcor         : 3.2500e-006
   CPcor         : -9.57000000e-008
   Slope         : 1.00000000
   Offset        : 0.00000
```

3) Frequency 2, Pressure, Digiquartz with TC

```
   Serial number : 0329
   Calibrated on : 04-Dec-09
   C1            : -4.499631e+004
   C2            : 4.598757e-001
   C3            : 1.505020e-002
   D1            : 3.936600e-002
   D2            : 0.000000e+000
   T1            : 3.004570e+001
   T2            : -1.880753e-004
   T3            : 4.727060e-006
   T4            : -1.923520e-009
   T5            : 0.000000e+000
   Slope         : 0.99996509
   Offset        : -0.27039
   AD590M        : 1.280100e-002
   AD590B        : -9.240166e+000
```

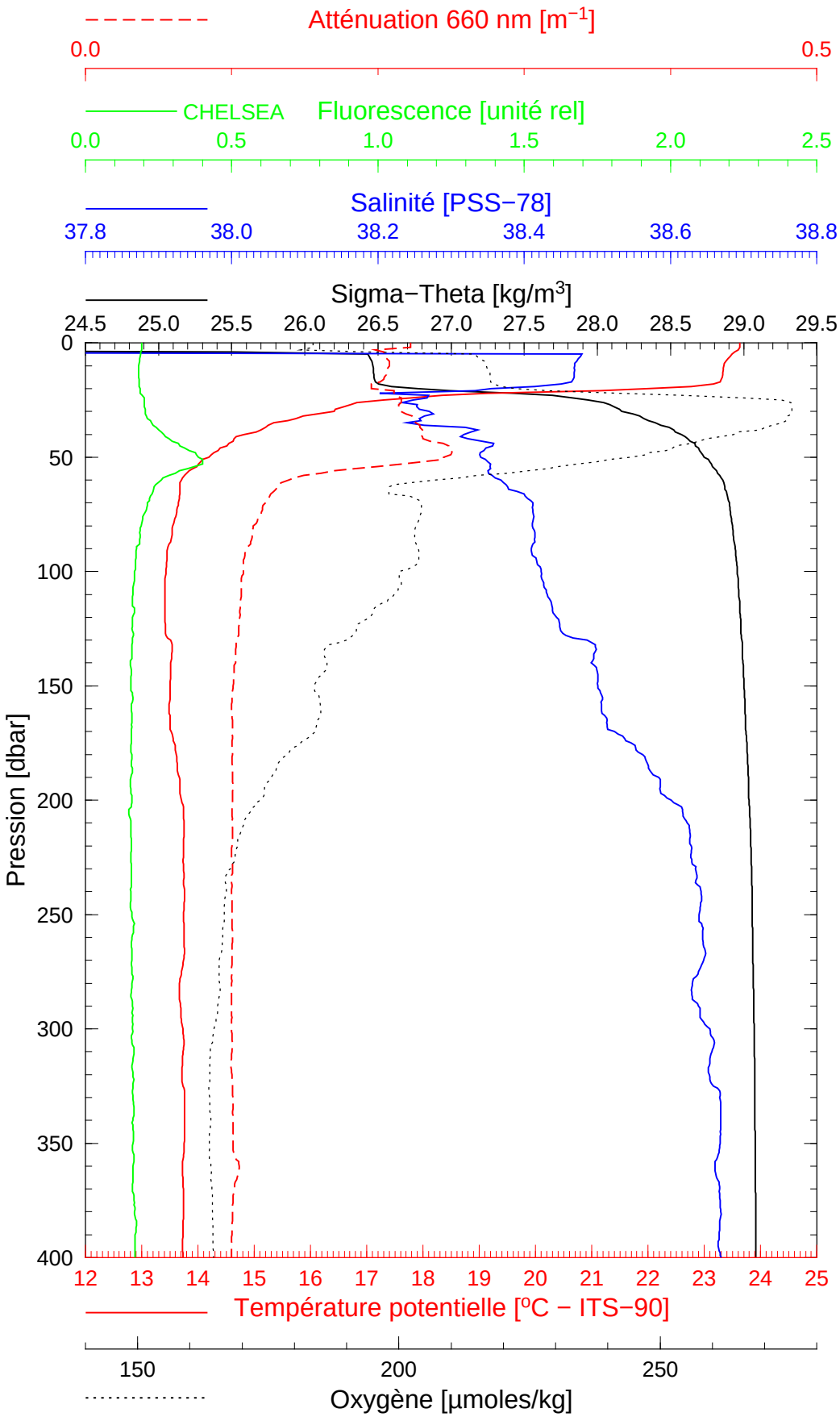
4) A/D voltage 0, Oxygen, SBE 43

```
   Serial number : 0378
   Calibrated on : 02-Dec-15
   Equation      : Sea-Bird
   Soc           : 3.73790e-001
   Offset        : -6.63100e-001
   A             : -3.20000e-003
   B             : 1.66470e-004
   C             : -2.92560e-006
   E             : 3.60000e-002
   Tau20         : 1.19000e+000
```

```
   D1            : 1.92634e-004
   D2            : -4.64803e-002
   H1            : -3.30000e-002
   H2            : 5.00000e+003
   H3            : 1.45000e+003

5) A/D voltage 1, Free

6) A/D voltage 2, User Polynomial

   Serial number : 171
   Calibrated on : 19May2014
   Sensor name   : RINKOIII_DO
   A0            : 0.00000000
   A1            : 1.00000000
   A2            : 0.00000000
   A3            : 0.00000000

7) A/D voltage 3, User Polynomial, 2

   Serial number : 171
   Calibrated on : 12May2014
   Sensor name   : RINKOIII_Temp
   A0            : -5.25367500
   A1            : 16.66254000
   A2            : -2.13105300
   A3            : 0.45564880

8) A/D voltage 4, 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 5, Transmissometer, WET Labs C-Star

   Serial number : 887DR
   Calibrated on : 11-sept-2015
   M             : 21.3083
   B             : -0.1065
   Path length   : 0.250

Scan length                  : 28
```

BOUSSOLE 174 **12/08/2016** **BOUS160812_01**

BOUS001

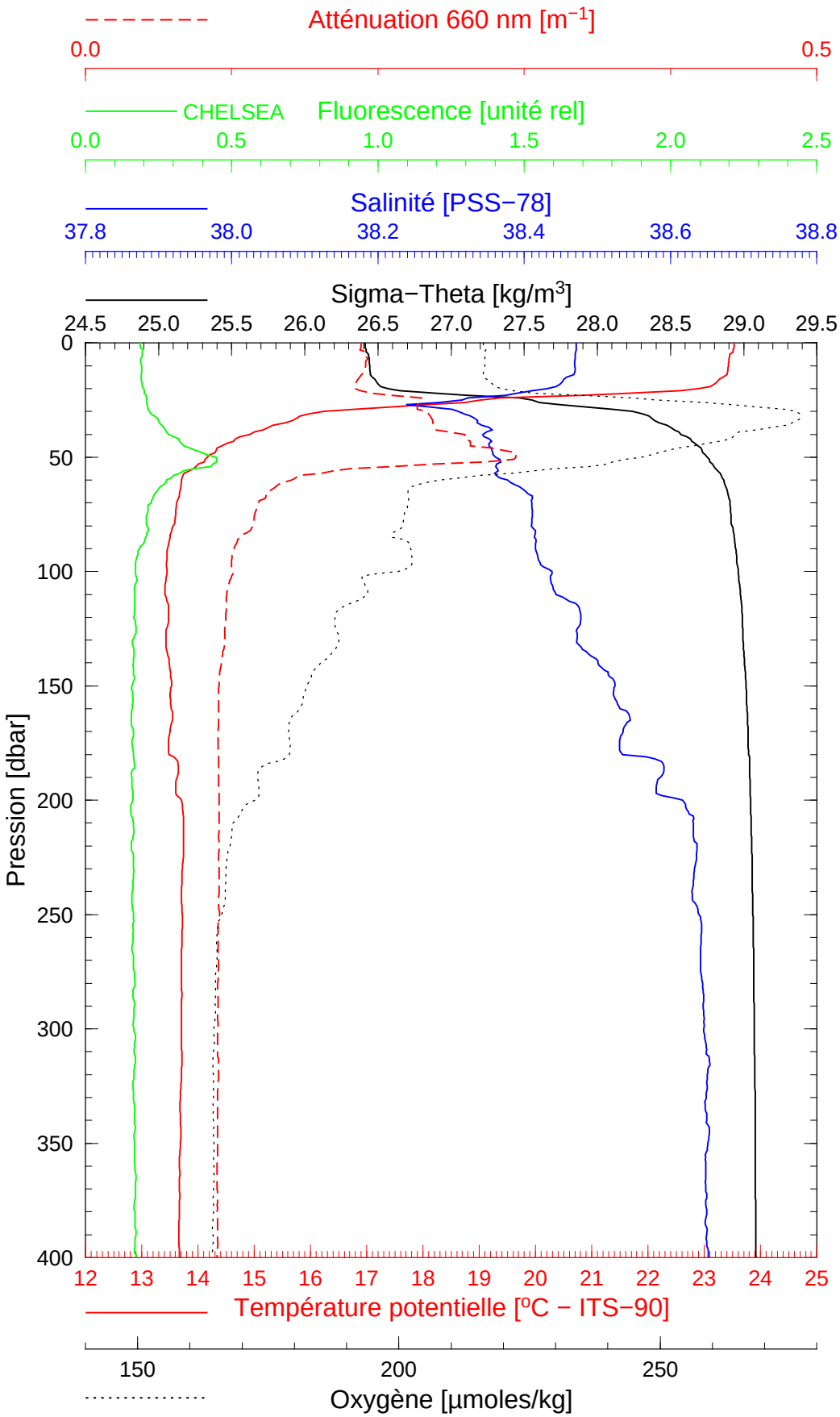


Date *12/08/2016* *Latitude* *43°22.064 N*

Heure déb *11h 27min [TU]* *Longitude* *07°53.627 E*

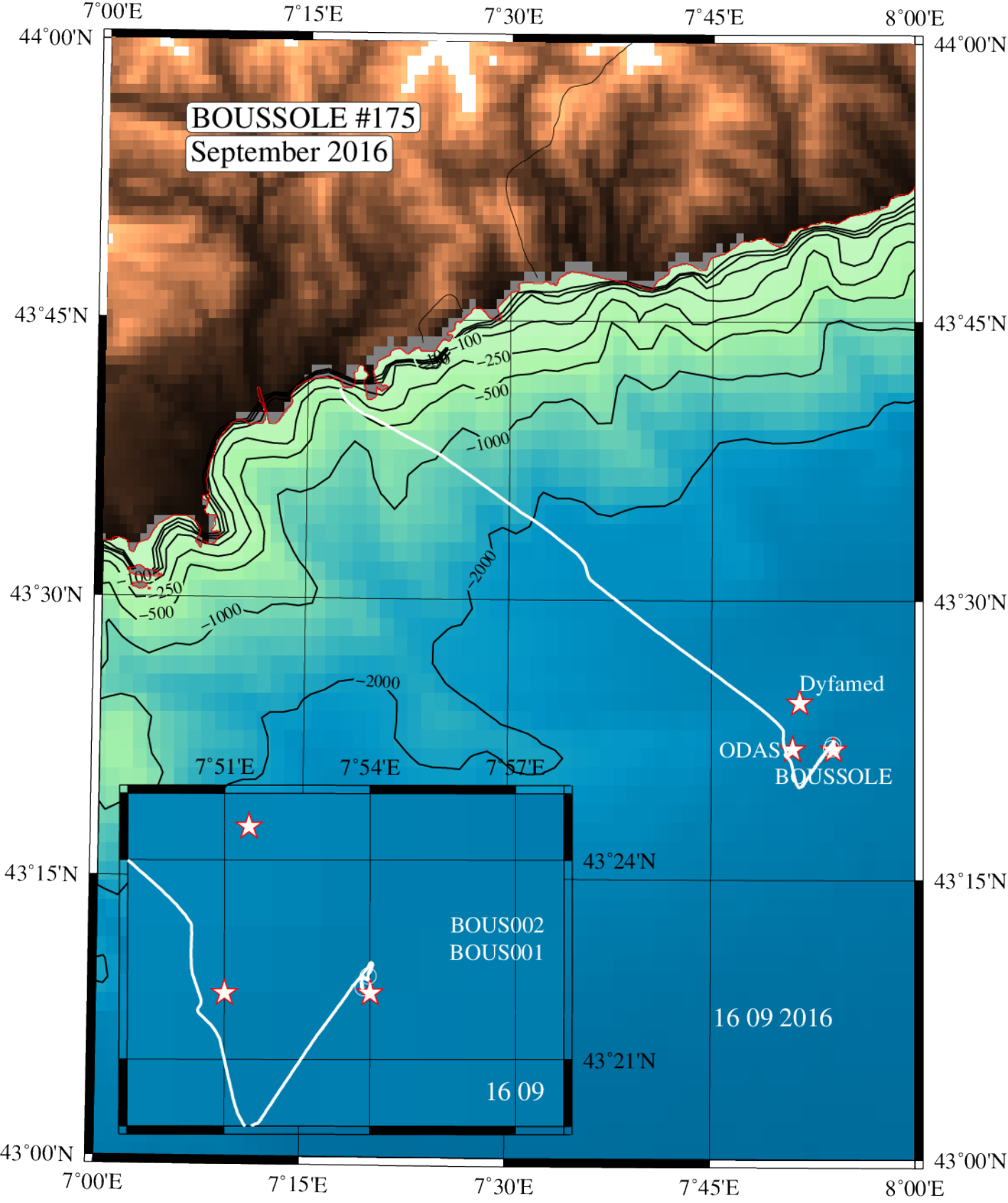
BOUSSOLE 174 **13/08/2016** **BOUS160813_01**

BOUS002



Date *13/08/2016* *Latitude* *43°22.019 N*

Heure déb *08h 59min [TU]* *Longitude* *07°53.900 E*



GMT 2017 Apr 25 08:39:42

Date: 08/03/2017

Instrument configuration file: C:\boussole\Data\CTD\2016\sept2016\boussole_sept2016
.xmlcon

Configuration report for SBE 911plus/917plus CTD

```
Frequency channels suppressed : 2
Voltage words suppressed      : 1
Computer interface            : RS-232C
Deck unit                     : SBE11plus Firmware Version >= 5.0
Scans to average              : 1
NMEA position data added      : Yes
NMEA depth data added         : No
NMEA time added               : No
NMEA device connected to      : deck unit
Surface PAR voltage added     : No
Scan time added               : No
```

1) Frequency 0, Temperature

```
   Serial number : 1378
   Calibrated on : 22-Dec-15
   G             : 4.87110477e-003
   H             : 6.79586791e-004
   I             : 2.73110278e-005
   J             : 2.19661858e-006
   F0            : 1000.000
   Slope         : 1.00000000
   Offset        : 0.0000
```

2) Frequency 1, Conductivity

```
   Serial number : 2929
   Calibrated on : 10-Dec-15
   G             : -1.06031742e+001
   H             : 1.42146472e+000
   I             : 2.09000083e-004
   J             : 5.16164064e-005
   CTcor         : 3.2500e-006
   CPcor         : -9.57000000e-008
   Slope         : 1.00000000
   Offset        : 0.00000
```

3) Frequency 2, Pressure, Digiquartz with TC

```
   Serial number : 0329
   Calibrated on : 04-Dec-09
   C1            : -4.499631e+004
   C2            : 4.598757e-001
   C3            : 1.505020e-002
   D1            : 3.936600e-002
   D2            : 0.000000e+000
   T1            : 3.004570e+001
   T2            : -1.880753e-004
   T3            : 4.727060e-006
   T4            : -1.923520e-009
   T5            : 0.000000e+000
   Slope         : 0.99996509
   Offset        : -0.27039
   AD590M        : 1.280100e-002
   AD590B        : -9.240166e+000
```

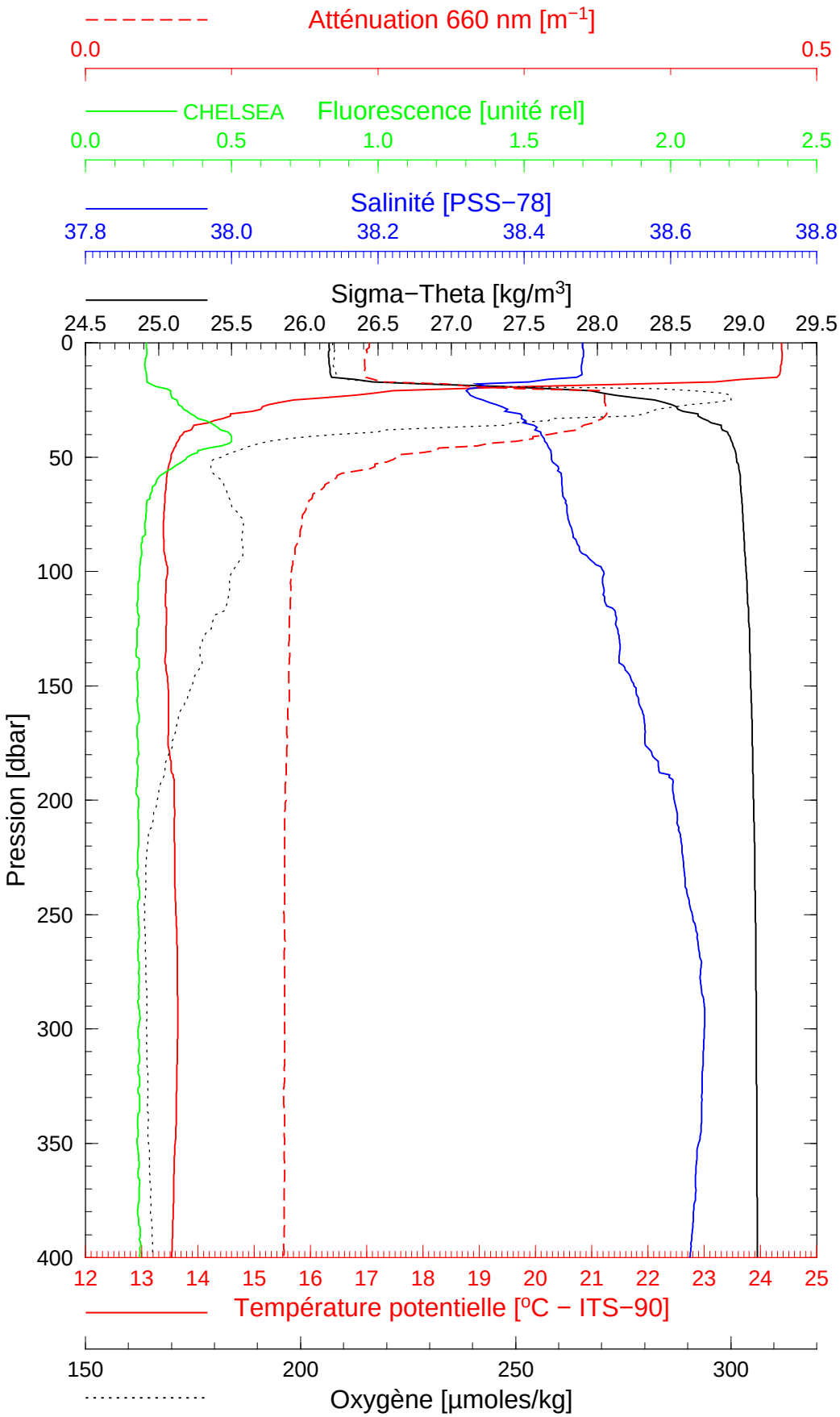
4) A/D voltage 0, Oxygen, SBE 43

```
   Serial number : 0378
   Calibrated on : 02-Dec-15
   Equation      : Sea-Bird
   Soc           : 3.73790e-001
   Offset        : -6.63100e-001
   A             : -3.20000e-003
   B             : 1.66470e-004
   C             : -2.92560e-006
   E             : 3.60000e-002
   Tau20         : 1.19000e+000
```

```
   D1            : 1.92634e-004
   D2            : -4.64803e-002
   H1            : -3.30000e-002
   H2            : 5.00000e+003
   H3            : 1.45000e+003

5) A/D voltage 1, Free

6) A/D voltage 2, User Polynomial

   Serial number : 171
   Calibrated on : 19May2014
   Sensor name   : RINKOIII_DO
   A0            : 0.00000000
   A1            : 1.00000000
   A2            : 0.00000000
   A3            : 0.00000000

7) A/D voltage 3, User Polynomial, 2

   Serial number : 171
   Calibrated on : 12May2014
   Sensor name   : RINKOIII_Temp
   A0            : -5.25367500
   A1            : 16.66254000
   A2            : -2.13105300
   A3            : 0.45564880

8) A/D voltage 4, 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 5, Transmissometer, WET Labs C-Star

   Serial number : 887DR
   Calibrated on : 11-sept-2015
   M             : 21.3083
   B             : -0.1065
   Path length   : 0.250

Scan length                  : 28
```

BOUSSOLE 175 **16/09/2016** **BOUS160916_01**

BOUS001

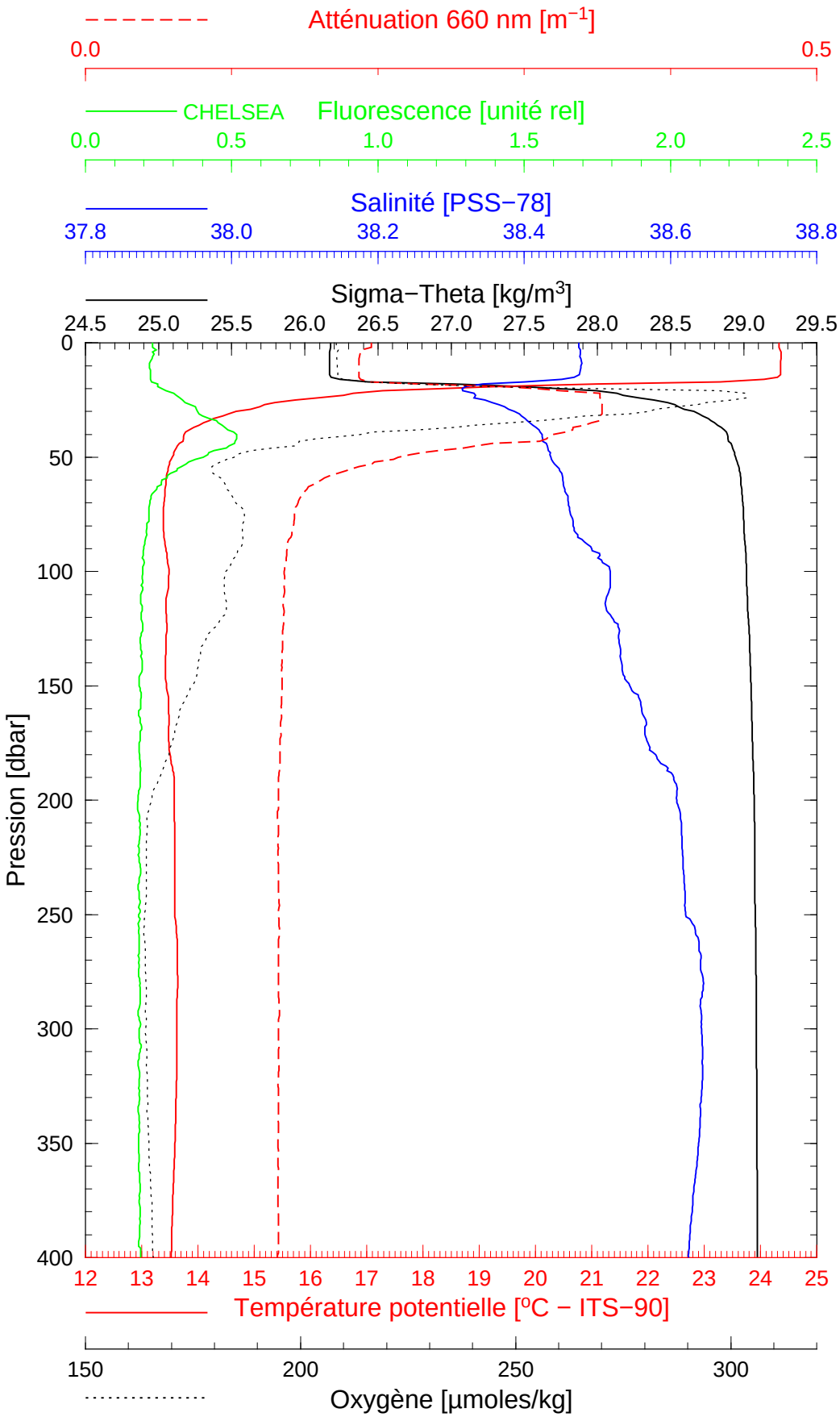


Date *16/09/2016* *Latitude* *43°22.079 N*

Heure déb *08h 55min [TU]* *Longitude* *07°53.861 E*

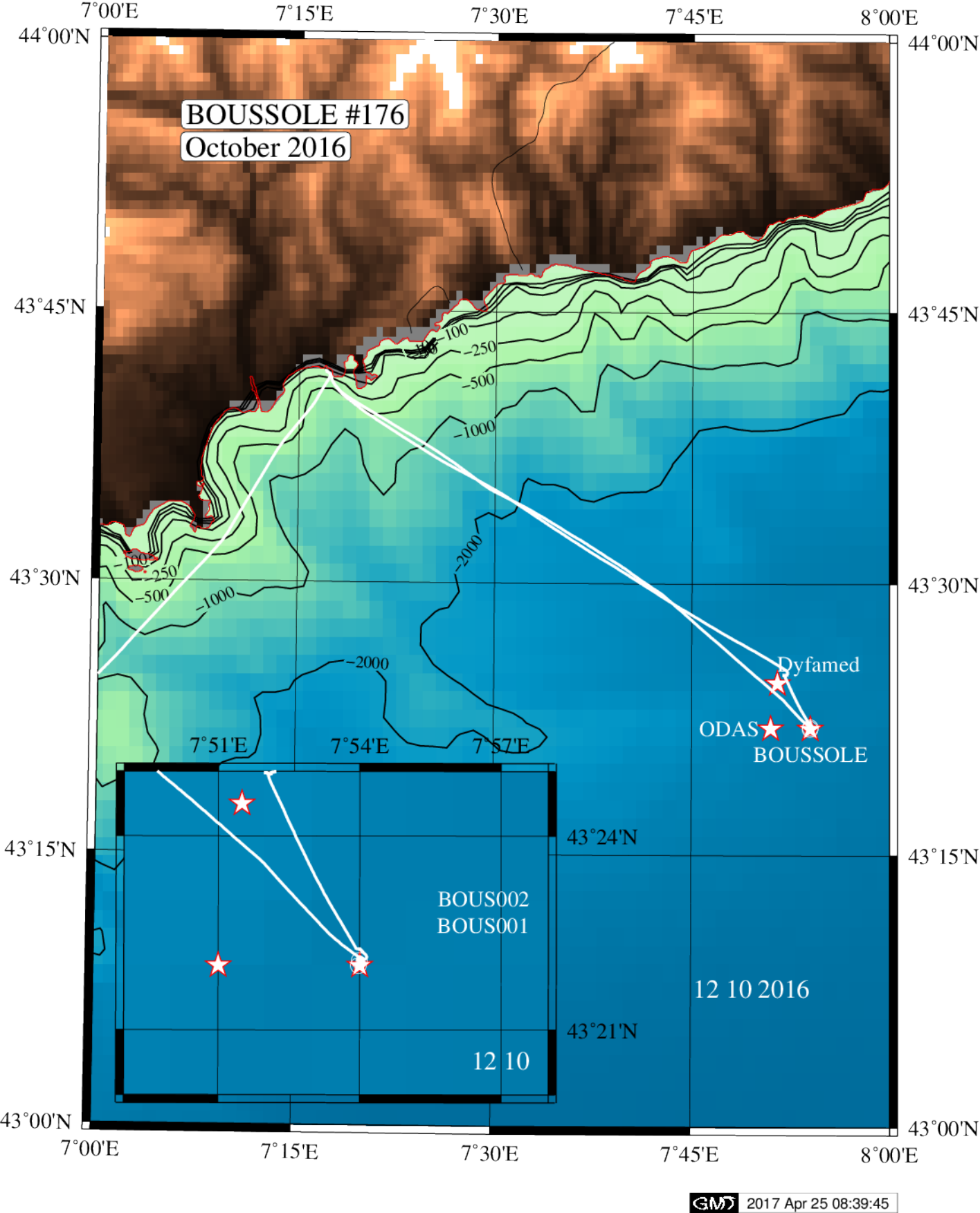
BOUSSOLE 175 **16/09/2016** **BOUS160916_02**

BOUS002



Date *16/09/2016* *Latitude* *43o22.253 N*

Heure déb *10h 10min [TU]* *Longitude* *07o53.962 E*


BOUSSOLE #176
October 2016
7°00'E
7°15'E
7°30'E
7°45'E
8°00'E
44°00'N
43°45'N
43°30'N
43°15'N
43°00'N
-100
-250
-500
-1000
-2000
Dyfamed
ODAS
BOUSSOLE
7°51'E
7°54'E
7°57'E
43°24'N
43°21'N
BOUS002
BOUS001
12 10
12 10 2016
GMT 2017 Apr 25 08:39:45

Date: 08/03/2017

Instrument configuration file: C:\boussole\Data\CTD\2016\oct2016\ctd\boussole_oct2016.xmlcon

Configuration report for SBE 911plus/917plus CTD

```
Frequency channels suppressed : 2
Voltage words suppressed      : 0
Computer interface            : RS-232C
Deck unit                     : SBE11plus Firmware Version >= 5.0
Scans to average              : 1
NMEA position data added      : Yes
NMEA depth data added         : No
NMEA time added               : No
NMEA device connected to      : deck unit
Surface PAR voltage added     : No
Scan time added               : No
```

1) Frequency 0, Temperature

```
   Serial number : 2473
   Calibrated on : 19-Mar-16
   G             : 4.36727268e-003
   H             : 6.43194228e-004
   I             : 2.33944433e-005
   J             : 2.23050947e-006
   F0            : 1000.000
   Slope         : 1.00000000
   Offset        : 0.0000
```

2) Frequency 1, Conductivity

```
   Serial number : 1313
   Calibrated on : 22-Mar-16
   G             : -3.93928139e+000
   H             : 4.71438294e-001
   I             : -2.27439509e-004
   J             : 3.96041028e-005
   CTcor         : 3.2500e-006
   CPcor         : -9.57000000e-008
   Slope         : 1.00000000
   Offset        : 0.00000
```

3) Frequency 2, Pressure, Digiquartz with TC

```
   Serial number : 0294
   Calibrated on : 22-Feb-13
   C1            : -4.258473e+004
   C2            : 1.874931e-001
   C3            : 1.368020e-002
   D1            : 3.936700e-002
   D2            : 0.000000e+000
   T1            : 3.021404e+001
   T2            : -2.815189e-004
   T3            : 4.591050e-006
   T4            : 1.633320e-009
   T5            : 0.000000e+000
   Slope         : 0.99982000
   Offset        : -1.63630
   AD590M        : 1.145000e-002
   AD590B        : -8.133300e+000
```

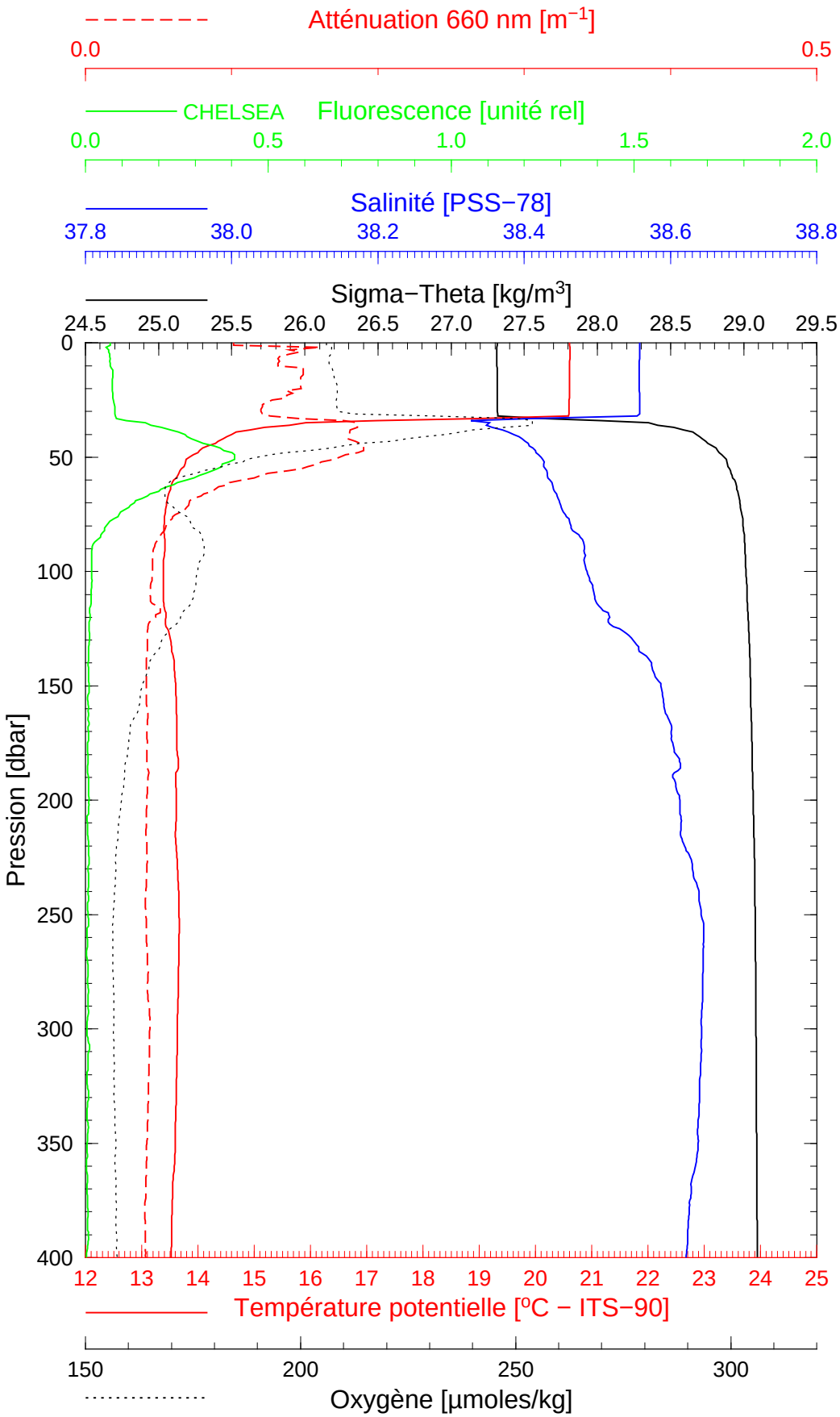
4) A/D voltage 0, Oxygen, SBE 43

```
   Serial number : 0587
   Calibrated on : 18-Mar-16
   Equation      : Sea-Bird
   Soc           : 4.19970e-001
   Offset        : -7.02200e-001
   A             : -4.33900e-003
   B             : 1.64060e-004
   C             : -2.57660e-006
   E             : 3.60000e-002
   Tau20         : 1.50000e+000
```

```
   D1            : 1.92634e-004
   D2            : -4.64803e-002
   H1            : -3.30000e-002
   H2            : 5.00000e+003
   H3            : 1.45000e+003

5) A/D voltage 1, Free

6) A/D voltage 2, Fluorometer, Chelsea Aqua 3

   Serial number : 088-094
   Calibrated on : 12-Nov-15
   VB            : 0.311200
   V1            : 2.082900
   Vacetone      : 0.434600
   Scale factor  : 1.000000
   Slope         : 1.000000
   Offset        : 0.000000

7) A/D voltage 3, Transmissometer, WET Labs C-Star

   Serial number : 887DR
   Calibrated on : 11-Sep-15
   M             : 21.3083
   B             : -0.1065
   Path length   : 0.250

8) A/D voltage 4, User Polynomial

   Serial number : 171
   Calibrated on : 19-May-14
   Sensor name   : RINKOIII_DO
   A0            : 0.00000000
   A1            : 1.00000000
   A2            : 0.00000000
   A3            : 0.00000000

9) A/D voltage 5, User Polynomial, 2

   Serial number : 171
   Calibrated on : 12-May-14
   Sensor name   : RINKOIII_Temp
   A0            : -5.25367500
   A1            : 16.66254000
   A2            : -2.13105300
   A3            : 0.45564880

10) A/D voltage 6, Altimeter

    Serial number : 464
    Calibrated on : 10-Nov-95
    Scale factor  : 5.000
    Offset        : 0.000

11) A/D voltage 7, Free

Scan length                   : 31
```

BOUSSOLE 176 **12/10/2016** **BOUS161012_01**

BOUS001

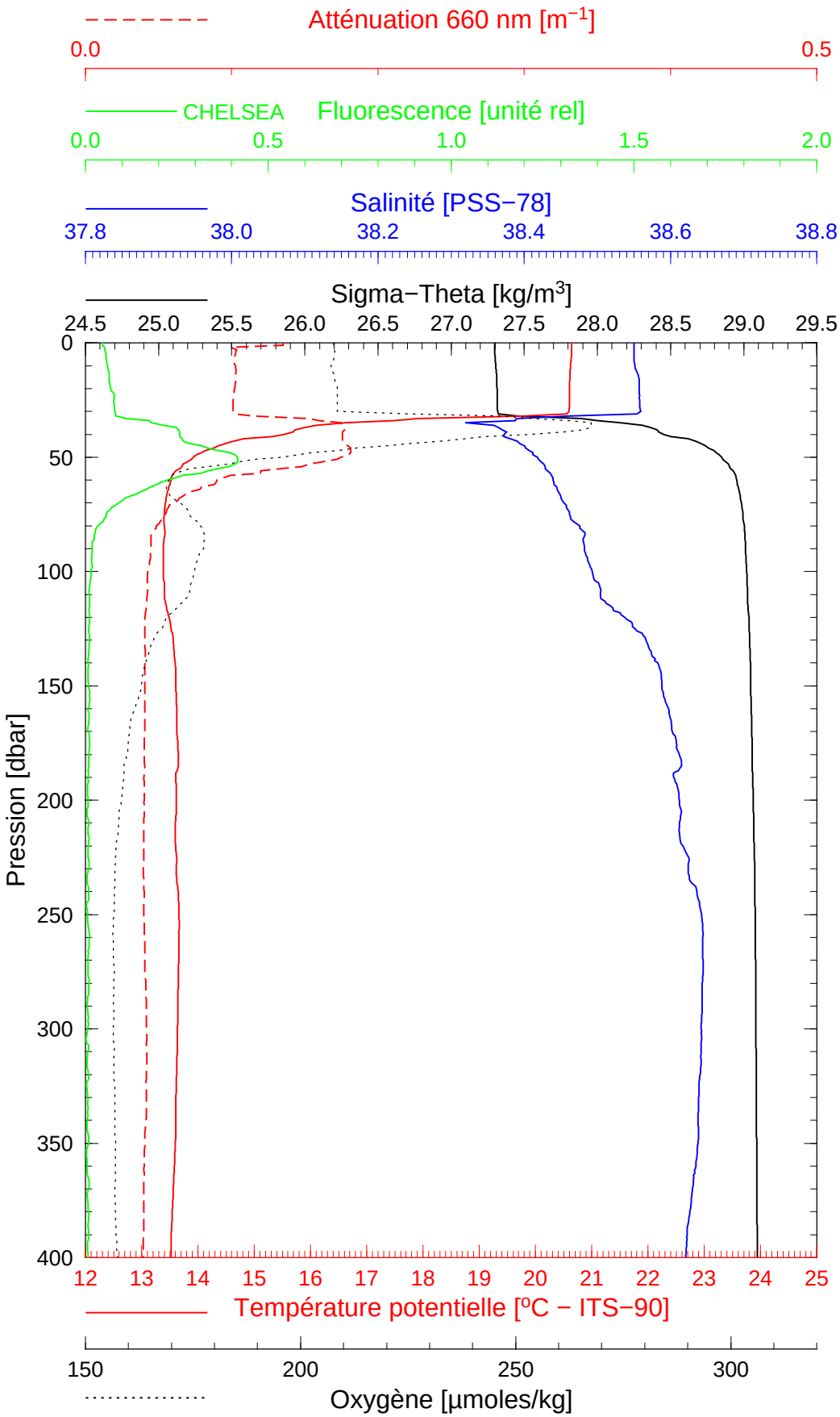


Date *12/10/2016* *Latitude* *43o21.997 N*

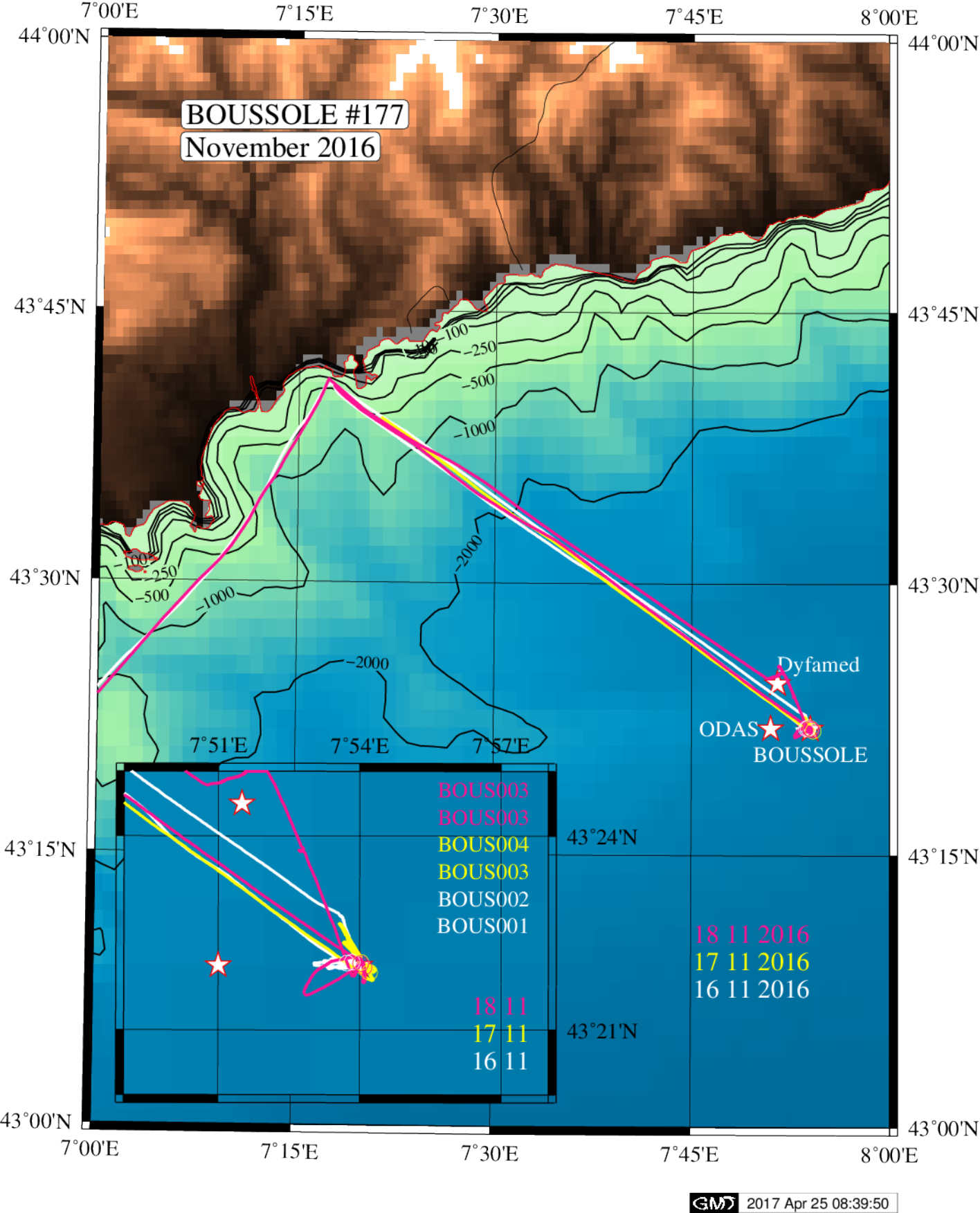
Heure déb *09h 49min [TU]* *Longitude* *07o53.975 E*

BOUSSOLE 176 **12/10/2016** **BOUS161012_02**

BOUS002



Date	*12/10/2016*	*Latitude*	*43o22.072 N*
Heure déb	*10h 51min [TU]*	*Longitude*	*07o53.992 E*


BOUSSOLE #177
November 2016
7°00'E
7°15'E
7°30'E
7°45'E
8°00'E
44°00'N
43°45'N
43°30'N
43°15'N
43°00'N
-100
-250
-500
-1000
-2000
Dyfamed
ODAS
BOUSSOLE
7°51'E
7°54'E
7°57'E
43°24'N
43°21'N
BOUS003
BOUS003
BOUS004
BOUS003
BOUS002
BOUS001
18 11 2016
17 11 2016
16 11 2016
18 11
17 11
16 11
GMT 2017 Apr 25 08:39:50

Date: 08/03/2017

Instrument configuration file: C:\boussole\Data\CTD\2016\nov2016\ctd\boussole_nov2016.xmlcon

Configuration report for SBE 911plus/917plus CTD

```
Frequency channels suppressed : 2
Voltage words suppressed      : 0
Computer interface            : RS-232C
Deck unit                     : SBE11plus Firmware Version >= 5.0
Scans to average              : 1
NMEA position data added      : Yes
NMEA depth data added         : No
NMEA time added               : No
NMEA device connected to      : deck unit
Surface PAR voltage added     : No
Scan time added               : No
```

1) Frequency 0, Temperature

```
   Serial number : 2473
   Calibrated on : 19-Mar-16
   G             : 4.36727268e-003
   H             : 6.43194228e-004
   I             : 2.33944433e-005
   J             : 2.23050947e-006
   F0            : 1000.000
   Slope         : 1.00000000
   Offset        : 0.0000
```

2) Frequency 1, Conductivity

```
   Serial number : 1313
   Calibrated on : 22-Mar-16
   G             : -3.93928139e+000
   H             : 4.71438294e-001
   I             : -2.27439509e-004
   J             : 3.96041028e-005
   CTcor         : 3.2500e-006
   CPcor         : -9.57000000e-008
   Slope         : 1.00000000
   Offset        : 0.00000
```

3) Frequency 2, Pressure, Digiquartz with TC

```
   Serial number : 0294
   Calibrated on : 22-Feb-13
   C1            : -4.258473e+004
   C2            : 1.874931e-001
   C3            : 1.368020e-002
   D1            : 3.936700e-002
   D2            : 0.000000e+000
   T1            : 3.021404e+001
   T2            : -2.815189e-004
   T3            : 4.591050e-006
   T4            : 1.633320e-009
   T5            : 0.000000e+000
   Slope         : 0.99982000
   Offset        : -1.63630
   AD590M        : 1.145000e-002
   AD590B        : -8.133300e+000
```

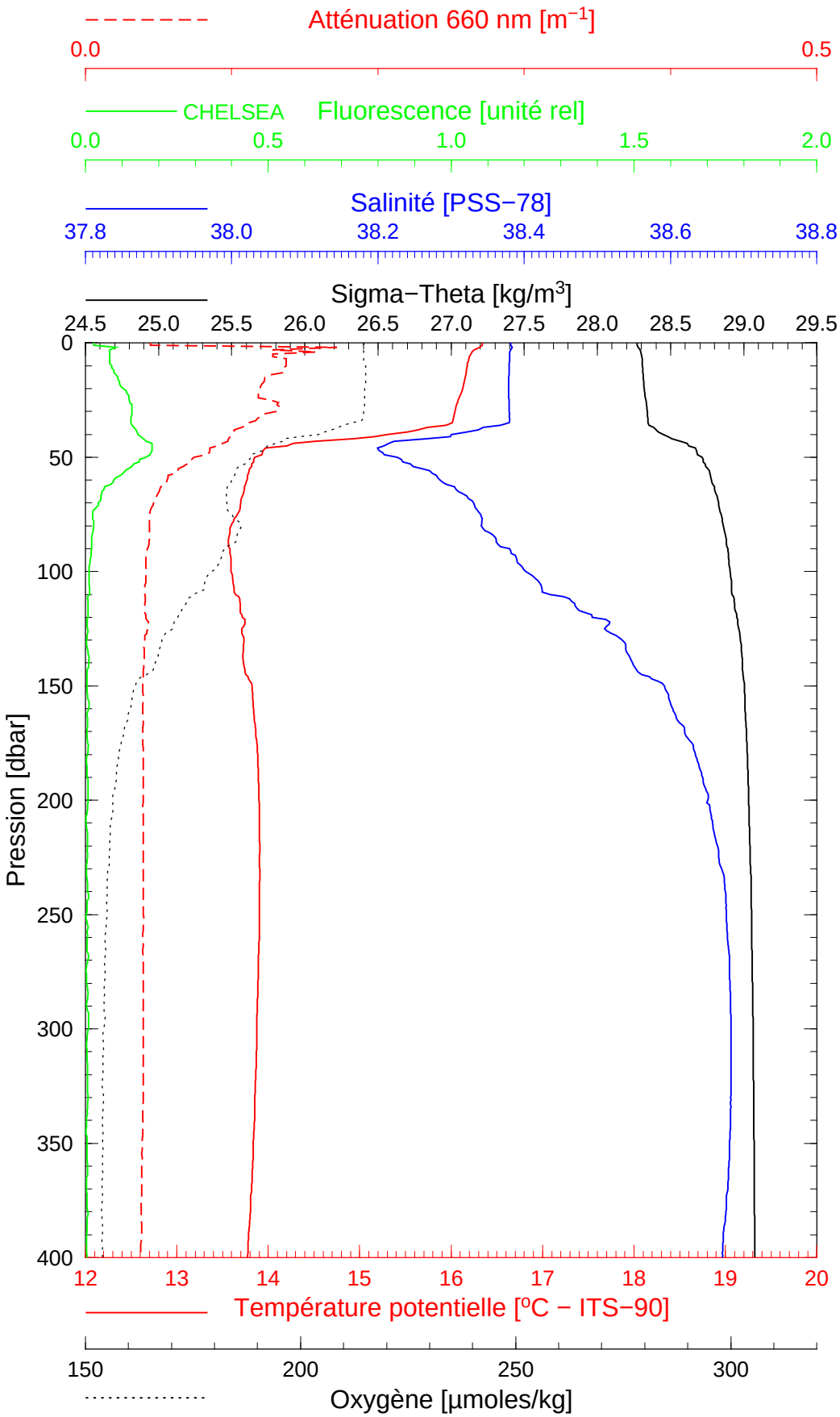
4) A/D voltage 0, Oxygen, SBE 43

```
   Serial number : 0587
   Calibrated on : 18-Mar-16
   Equation      : Sea-Bird
   Soc           : 4.19970e-001
   Offset        : -7.02200e-001
   A             : -4.33900e-003
   B             : 1.64060e-004
   C             : -2.57660e-006
   E             : 3.60000e-002
   Tau20         : 1.50000e+000
```

```
   D1            : 1.92634e-004
   D2            : -4.64803e-002
   H1            : -3.30000e-002
   H2            : 5.00000e+003
   H3            : 1.45000e+003

5) A/D voltage 1, Free

6) A/D voltage 2, Fluorometer, Chelsea Aqua 3

   Serial number : 088-094
   Calibrated on : 12-Nov-15
   VB            : 0.311200
   V1            : 2.082900
   Vacetone      : 0.434600
   Scale factor  : 1.000000
   Slope         : 1.000000
   Offset        : 0.000000

7) A/D voltage 3, Transmissometer, WET Labs C-Star

   Serial number : 887DR
   Calibrated on : 11-Sep-15
   M             : 21.3083
   B             : -0.1065
   Path length   : 0.250

8) A/D voltage 4, User Polynomial

   Serial number : 171
   Calibrated on : 19-May-14
   Sensor name   : RINKOIII_DO
   A0            : 0.00000000
   A1            : 1.00000000
   A2            : 0.00000000
   A3            : 0.00000000

9) A/D voltage 5, User Polynomial, 2

   Serial number : 171
   Calibrated on : 12-May-14
   Sensor name   : RINKOIII_Temp
   A0            : -5.25367500
   A1            : 16.66254000
   A2            : -2.13105300
   A3            : 0.45564880

10) A/D voltage 6, Altimeter

    Serial number : 464
    Calibrated on : 10-Nov-95
    Scale factor  : 5.000
    Offset        : 0.000

11) A/D voltage 7, Free

Scan length                   : 31
```

BOUSSOLE 177 **16/11/2016** **BOUS161116_01**

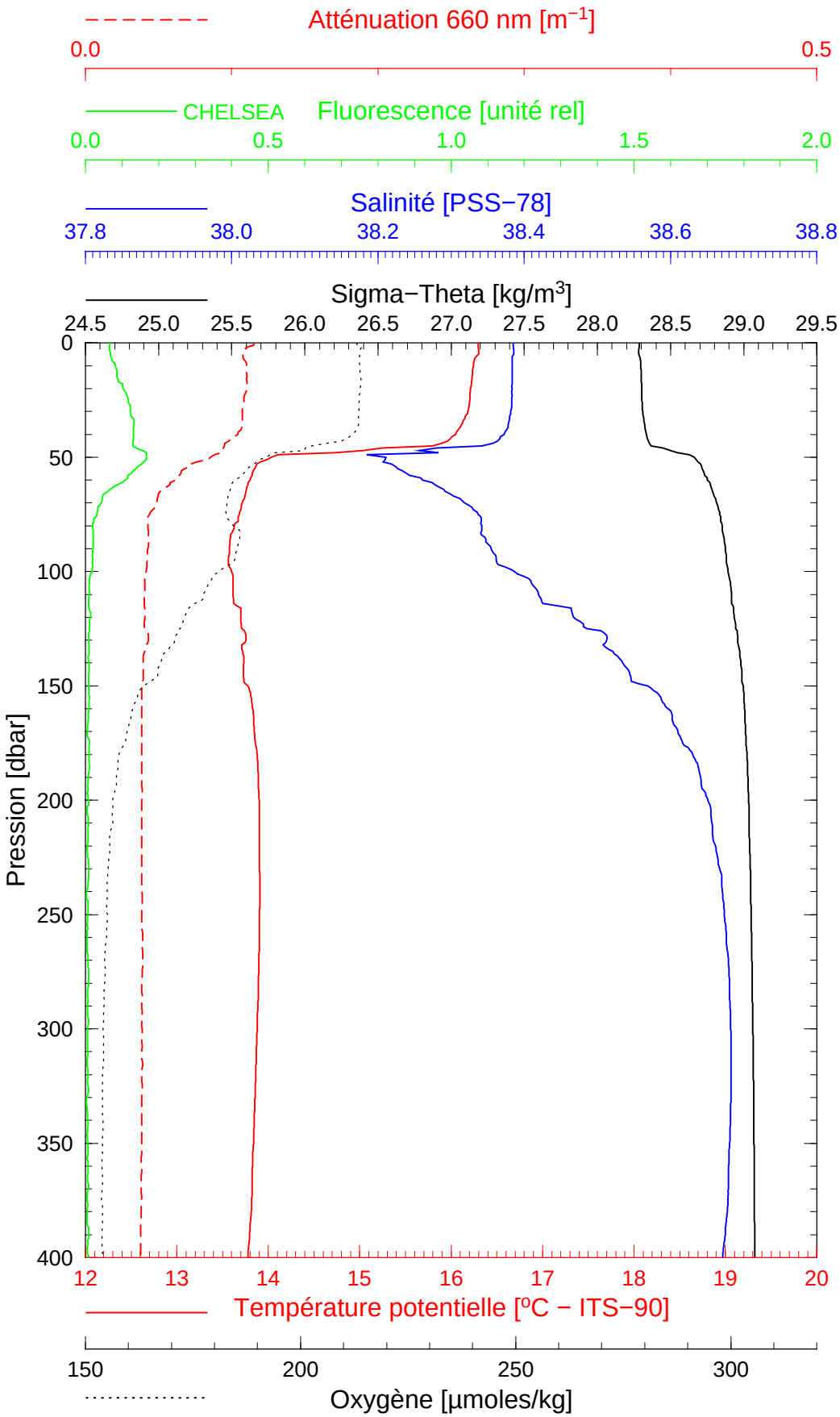
BOUS001



Date	*16/11/2016*	*Latitude*	*43°22.031 N*
Heure déb	*12h 24min [TU]*	*Longitude*	*07°53.728 E*

BOUSSOLE 177 **16/11/2016** **BOUS161116_02**

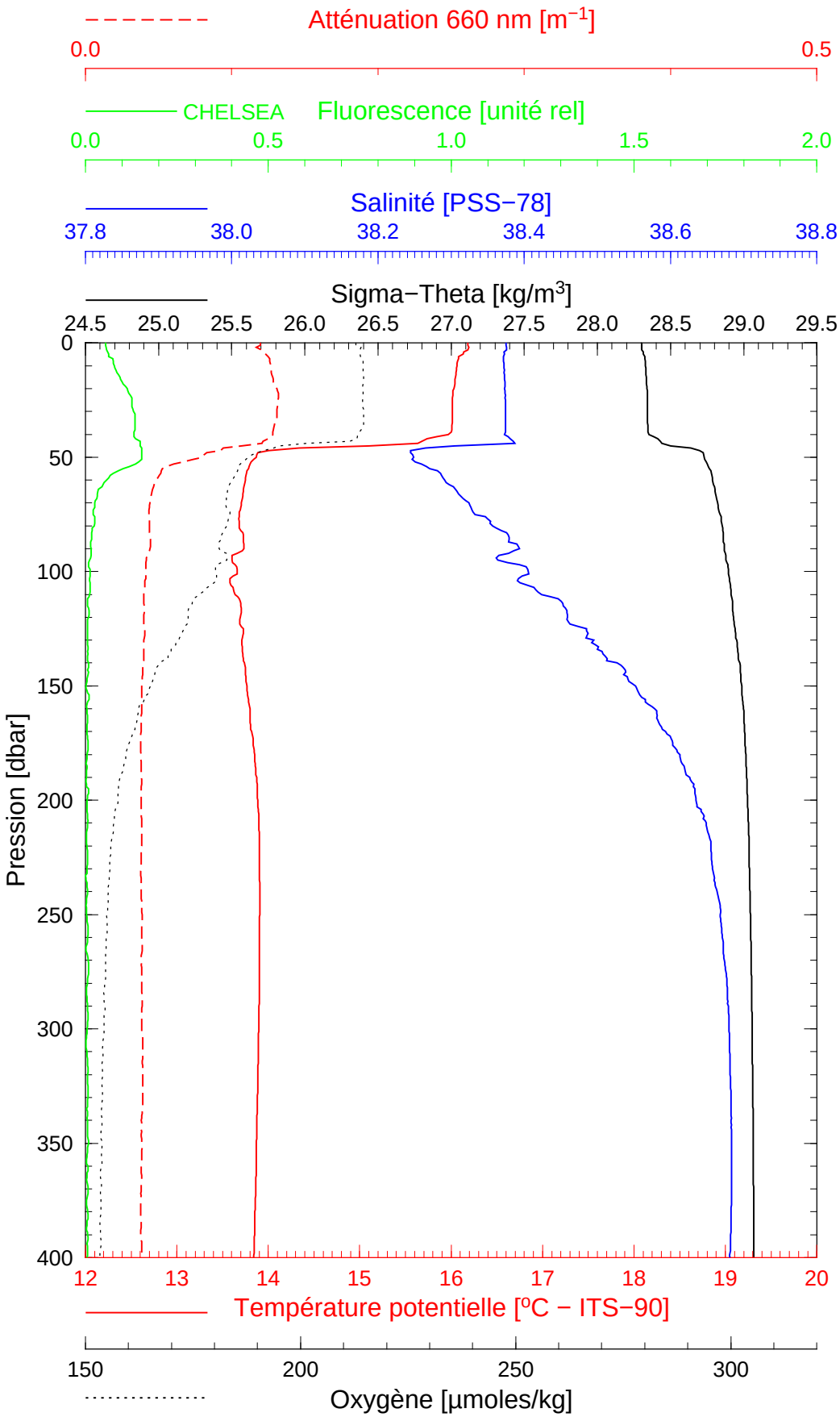
BOUS002



Date	*16/11/2016*	*Latitude*	*43°22.048 N*
Heure déb	*13h 10min [TU]*	*Longitude*	*07°53.843 E*

BOUSSOLE 177 **17/11/2016** **BOUS161117_01**

BOUS003

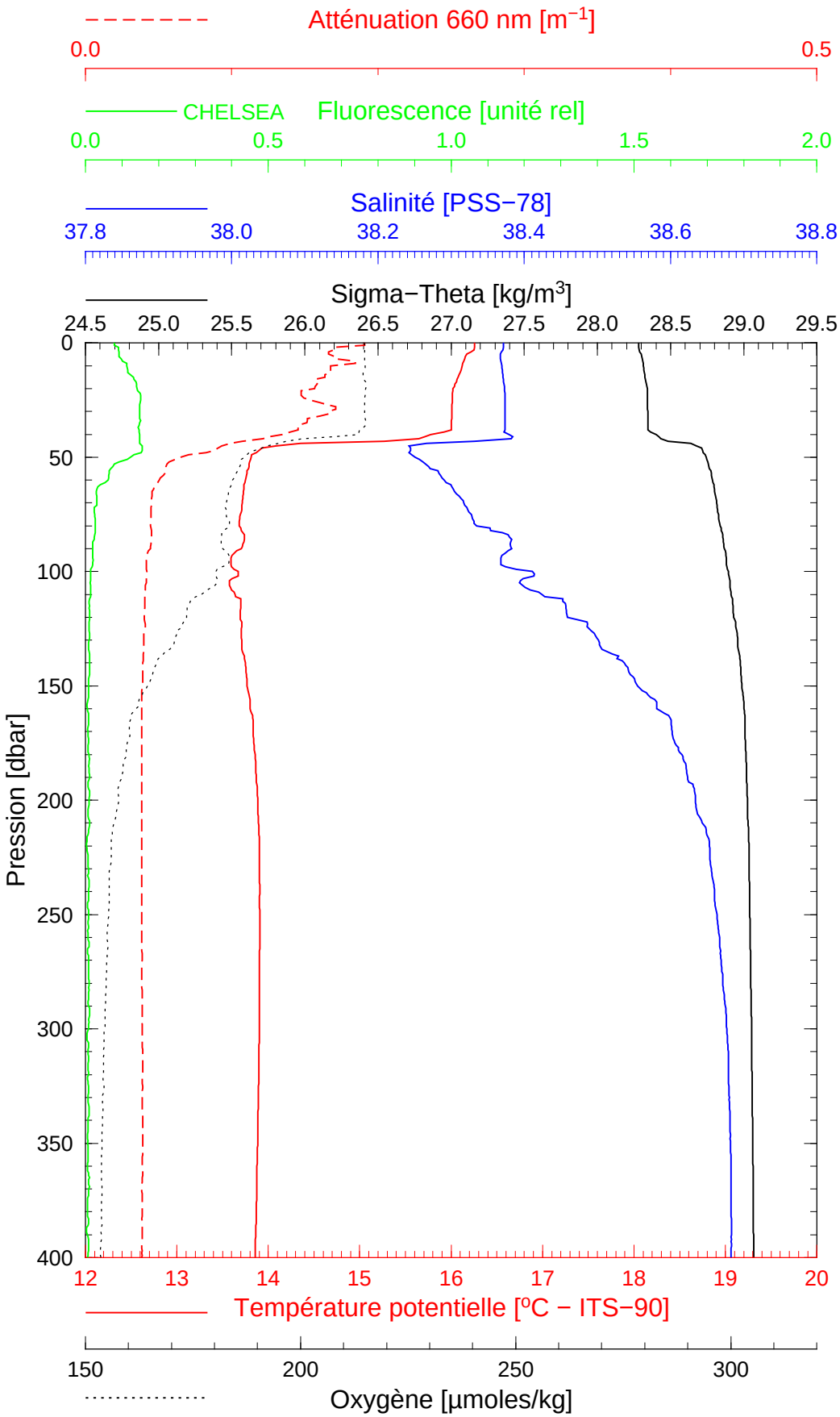


Date *17/11/2016* *Latitude* *43o22.043 N*

Heure déb *12h 19min [TU]* *Longitude* *07o54.029 E*

BOUSSOLE 177 **17/11/2016** **BOUS161117_02**

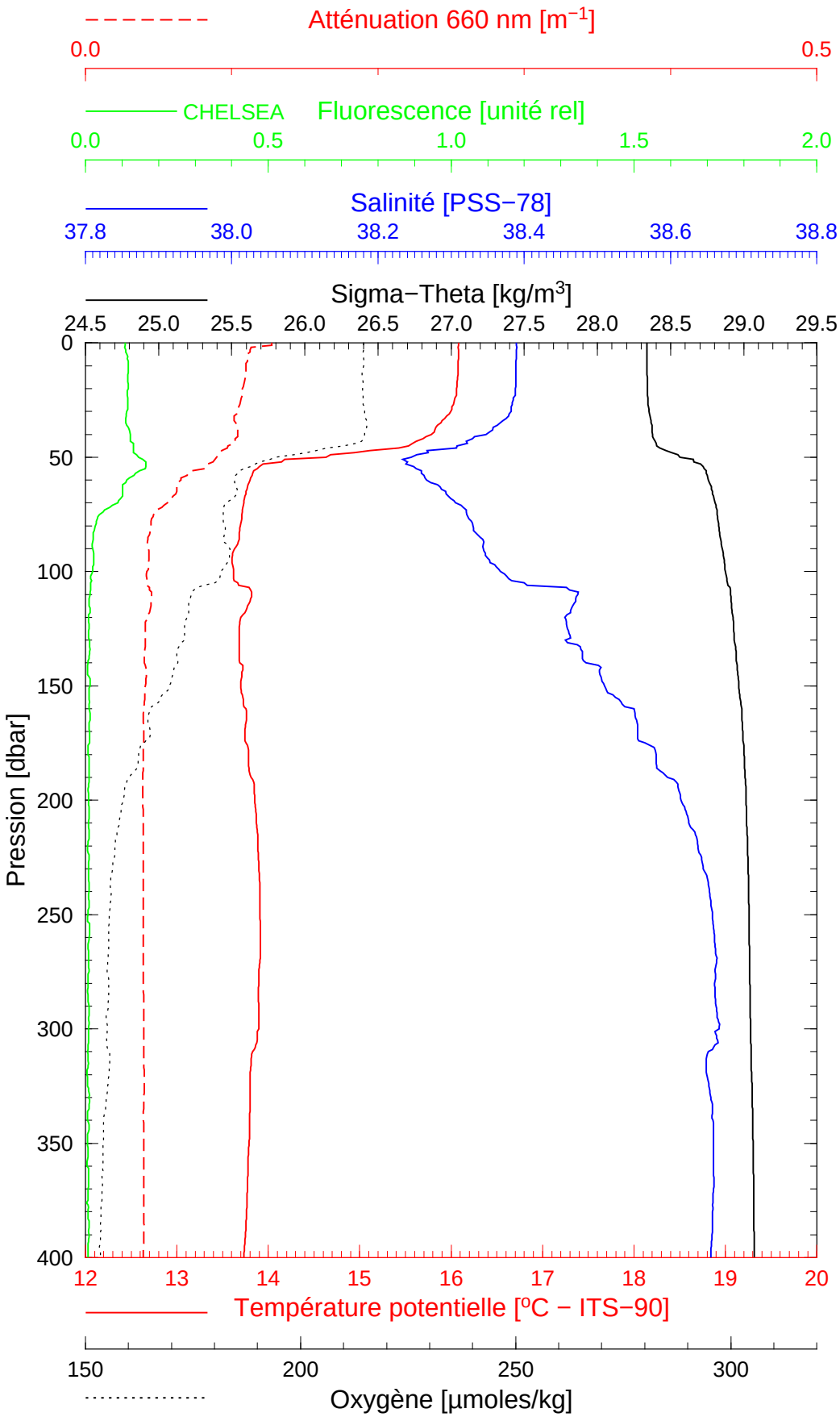
BOUS004



Date	*17/11/2016*	*Latitude*	*43o21.888 N*
Heure déb	*13h 32min [TU]*	*Longitude*	*07o54.211 E*

BOUSSOLE 177 **18/11/2016** **BOUS161118_01**

BOUS005

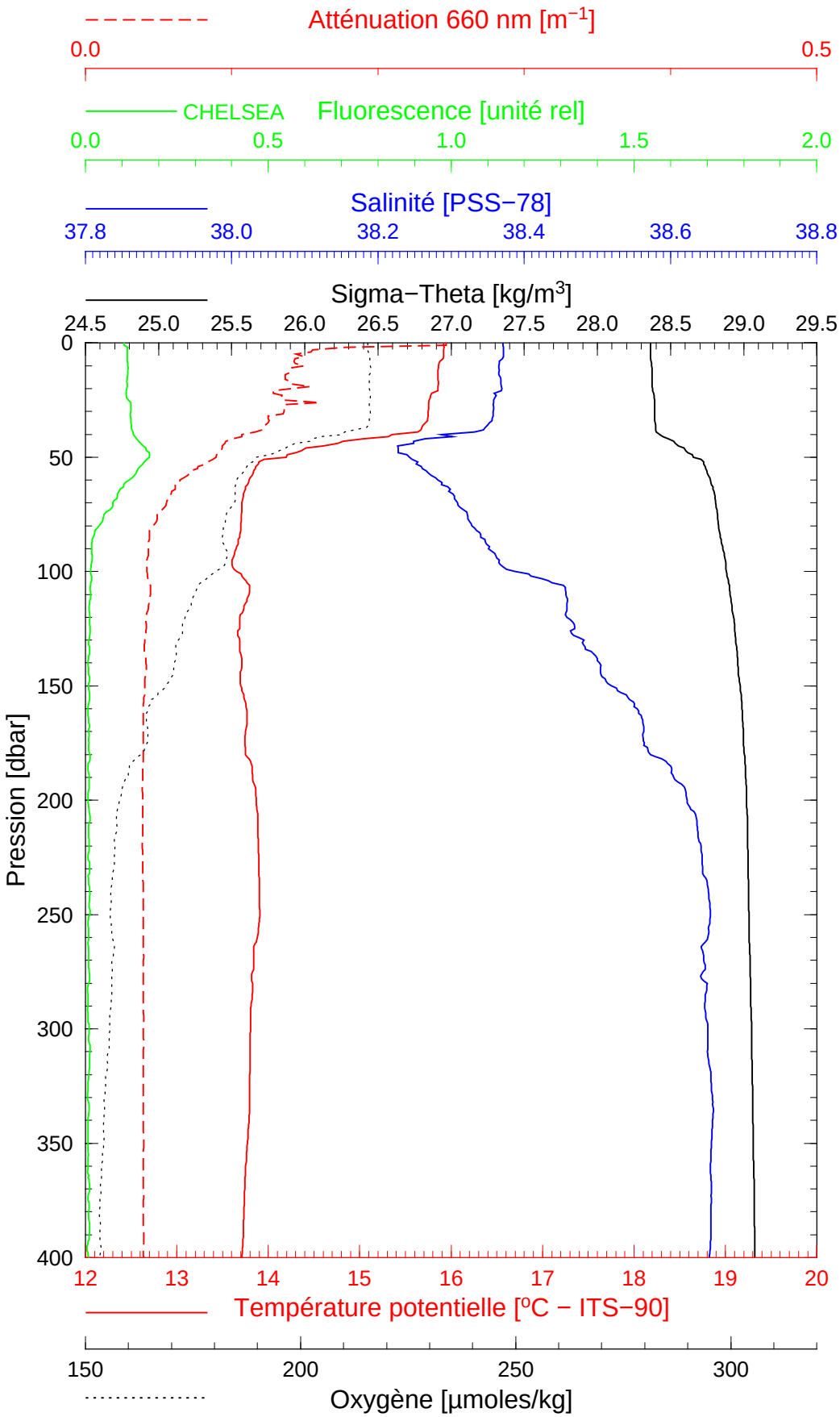


Date *18/11/2016* *Latitude* *43o21.974 N*

Heure déb *09h 22min [TU]* *Longitude* *07o54.095 E*

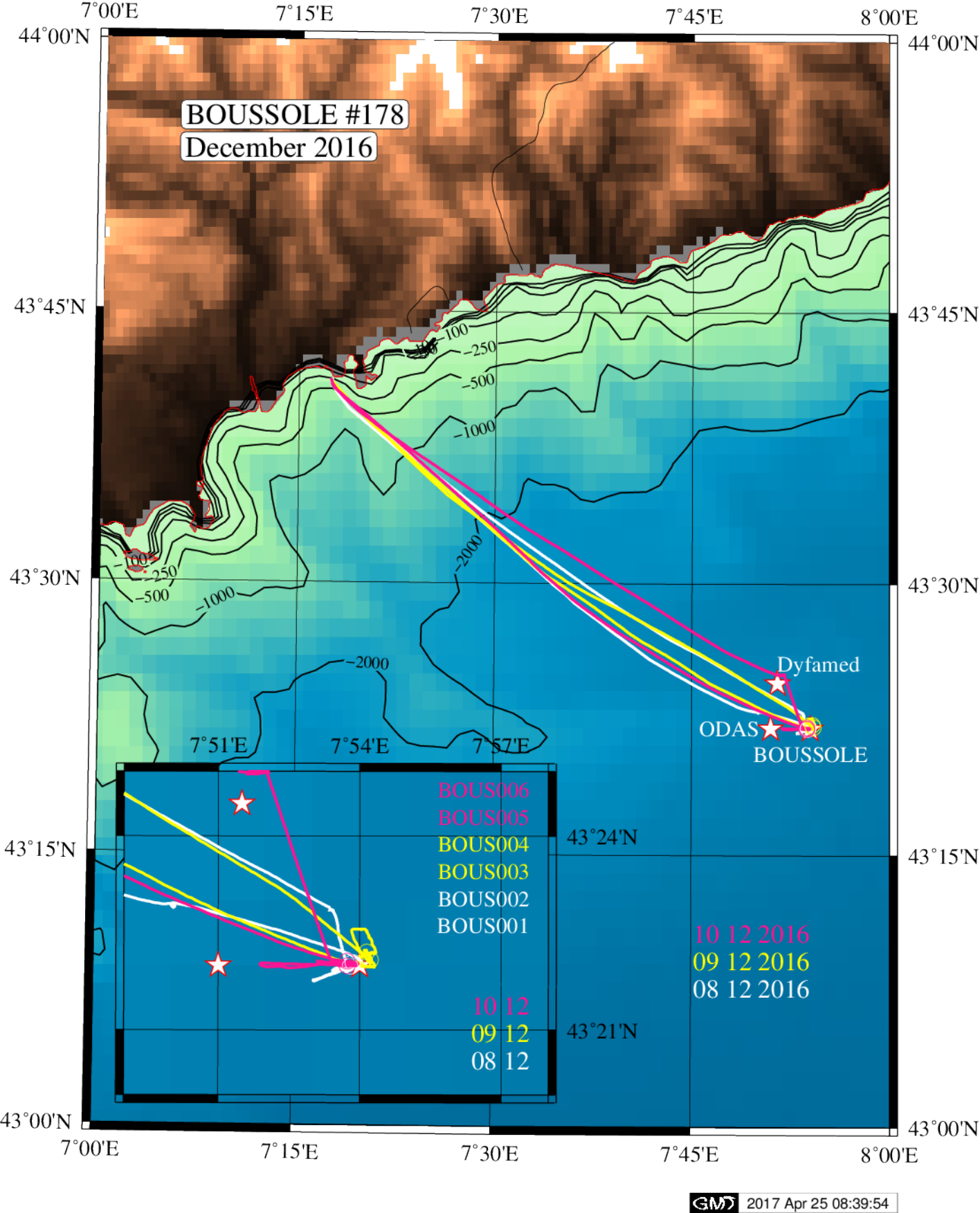
BOUSSOLE 177 **18/11/2016** **BOUS161118_02**

BOUS006



Date *18/11/2016* *Latitude* *43o22.024 N*

Heure déb *11h 01min [TU]* *Longitude* *07o54.020 E*


BOUSSOLE #178
December 2016
7°00'E
7°15'E
7°30'E
7°45'E
8°00'E
44°00'N
43°45'N
43°30'N
43°15'N
43°00'N
-100
-250
-500
-1000
-2000
Dyfamed
ODAS
BOUSSOLE
7°51'E
7°54'E
7°57'E
43°24'N
43°21'N
BOUS006
BOUS005
BOUS004
BOUS003
BOUS002
BOUS001
10 12 2016
09 12 2016
08 12 2016
10 12
09 12
08 12
GMT 2017 Apr 25 08:39:54

Date: 08/03/2017

Instrument configuration file: C:\boussole\Data\CTD\2016\dec2016\boussole_dec2016.xmlcon

Configuration report for SBE 911plus/917plus CTD

```
Frequency channels suppressed : 2
Voltage words suppressed      : 0
Computer interface            : RS-232C
Deck unit                     : SBE11plus Firmware Version >= 5.0
Scans to average              : 1
NMEA position data added      : Yes
NMEA depth data added         : No
NMEA time added               : No
NMEA device connected to      : deck unit
Surface PAR voltage added     : No
Scan time added               : No
```

1) Frequency 0, Temperature

```
   Serial number : 2473
   Calibrated on : 19-Mar-16
   G             : 4.36727268e-003
   H             : 6.43194228e-004
   I             : 2.33944433e-005
   J             : 2.23050947e-006
   F0            : 1000.000
   Slope         : 1.00000000
   Offset        : 0.0000
```

2) Frequency 1, Conductivity

```
   Serial number : 1313
   Calibrated on : 22-Mar-16
   G             : -3.93928139e+000
   H             : 4.71438294e-001
   I             : -2.27439509e-004
   J             : 3.96041028e-005
   CTcor         : 3.2500e-006
   CPcor         : -9.57000000e-008
   Slope         : 1.00000000
   Offset        : 0.00000
```

3) Frequency 2, Pressure, Digiquartz with TC

```
   Serial number : 0294
   Calibrated on : 22-Feb-13
   C1            : -4.258473e+004
   C2            : 1.874931e-001
   C3            : 1.368020e-002
   D1            : 3.936700e-002
   D2            : 0.000000e+000
   T1            : 3.021404e+001
   T2            : -2.815189e-004
   T3            : 4.591050e-006
   T4            : 1.633320e-009
   T5            : 0.000000e+000
   Slope         : 0.99982000
   Offset        : -1.63630
   AD590M        : 1.145000e-002
   AD590B        : -8.133300e+000
```

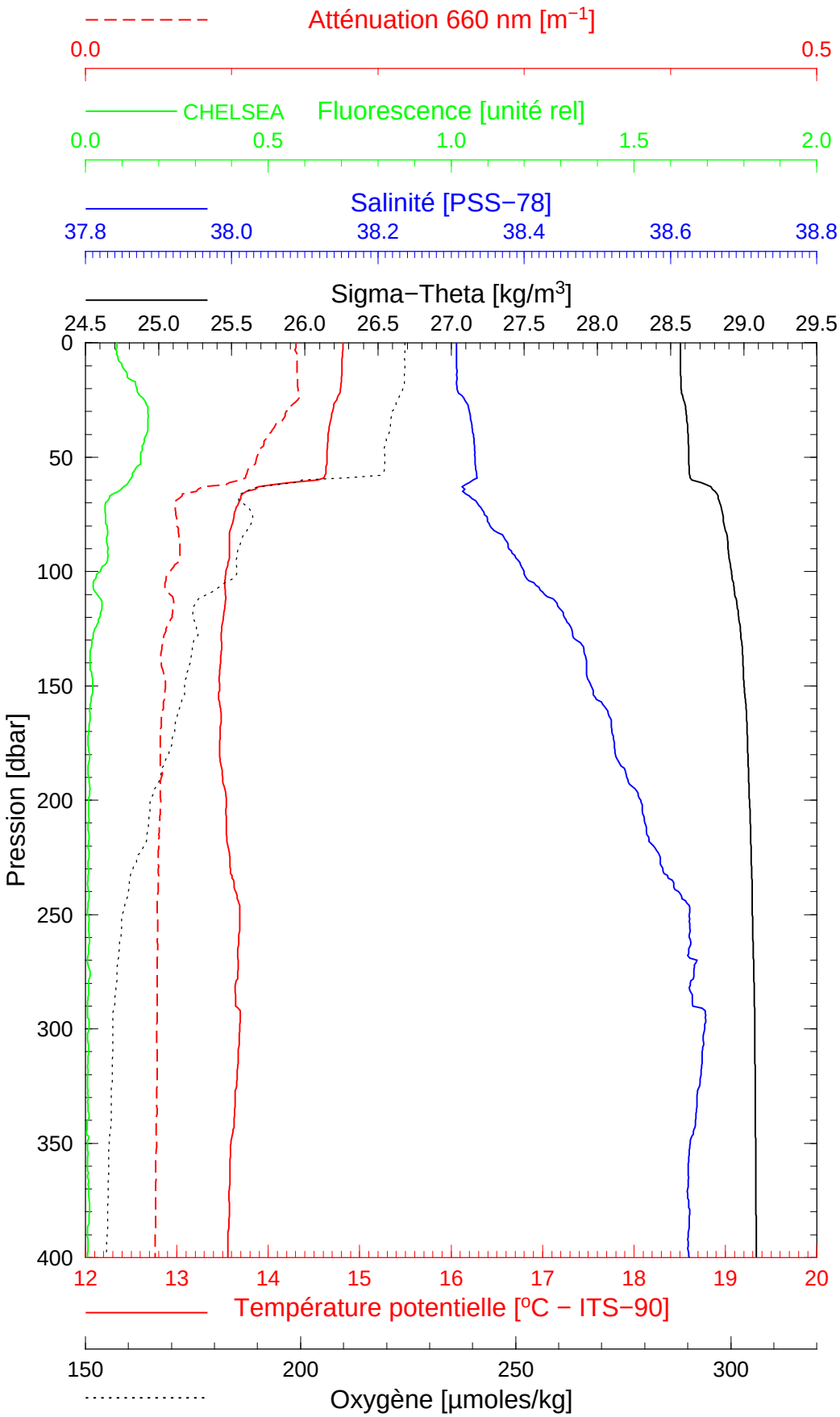
4) A/D voltage 0, Oxygen, SBE 43

```
   Serial number : 0587
   Calibrated on : 18-Mar-16
   Equation      : Sea-Bird
   Soc           : 4.19970e-001
   Offset        : -7.02200e-001
   A             : -4.33900e-003
   B             : 1.64060e-004
   C             : -2.57660e-006
   E             : 3.60000e-002
   Tau20         : 1.50000e+000
```

```
   D1            : 1.92634e-004
   D2            : -4.64803e-002
   H1            : -3.30000e-002
   H2            : 5.00000e+003
   H3            : 1.45000e+003

5) A/D voltage 1, Free

6) A/D voltage 2, Fluorometer, Chelsea Aqua 3

   Serial number : 088-094
   Calibrated on : 12-Nov-15
   VB            : 0.311200
   V1            : 2.082900
   Vacetone      : 0.434600
   Scale factor  : 1.000000
   Slope         : 1.000000
   Offset        : 0.000000

7) A/D voltage 3, Transmissometer, WET Labs C-Star

   Serial number : 887DR
   Calibrated on : 11-Sep-15
   M             : 21.3083
   B             : -0.1065
   Path length   : 0.250

8) A/D voltage 4, User Polynomial

   Serial number : 171
   Calibrated on : 19-May-14
   Sensor name   : RINKOIII_DO
   A0            : 0.00000000
   A1            : 1.00000000
   A2            : 0.00000000
   A3            : 0.00000000

9) A/D voltage 5, User Polynomial, 2

   Serial number : 171
   Calibrated on : 12-May-14
   Sensor name   : RINKOIII_Temp
   A0            : -5.25367500
   A1            : 16.66254000
   A2            : -2.13105300
   A3            : 0.45564880

10) A/D voltage 6, Altimeter

    Serial number : 464
    Calibrated on : 10-Nov-95
    Scale factor  : 5.000
    Offset        : 0.000

11) A/D voltage 7, Free

Scan length                   : 31
```

BOUSSOLE 178 **08/12/2016** **BOUS161208_01**

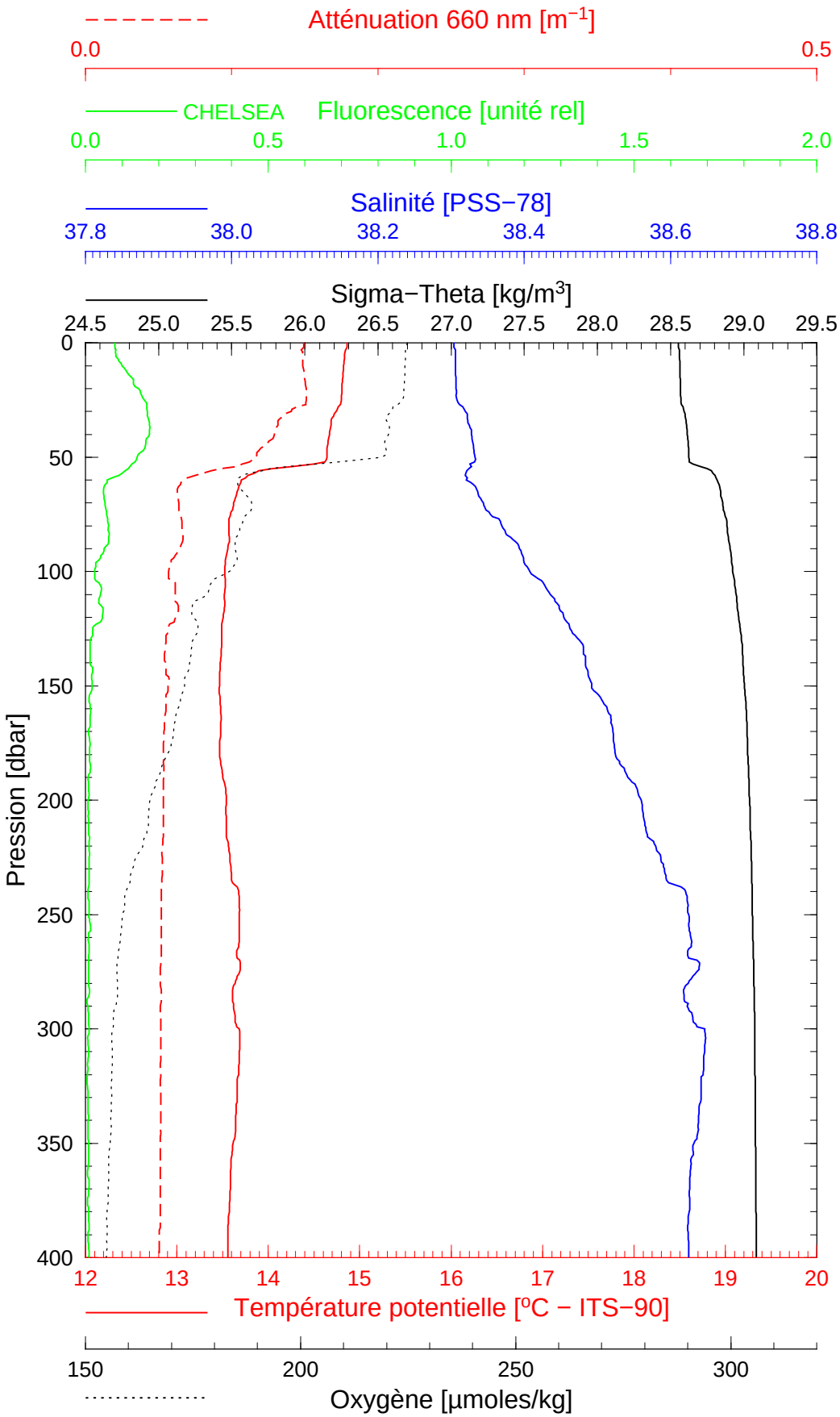
BOUS001



Date	*08/12/2016*	*Latitude*	*43°22.044 N*
Heure déb	*10h 55min [TU]*	*Longitude*	*07°53.855 E*

BOUSSOLE 178 **08/12/2016** **BOUS161208_02**

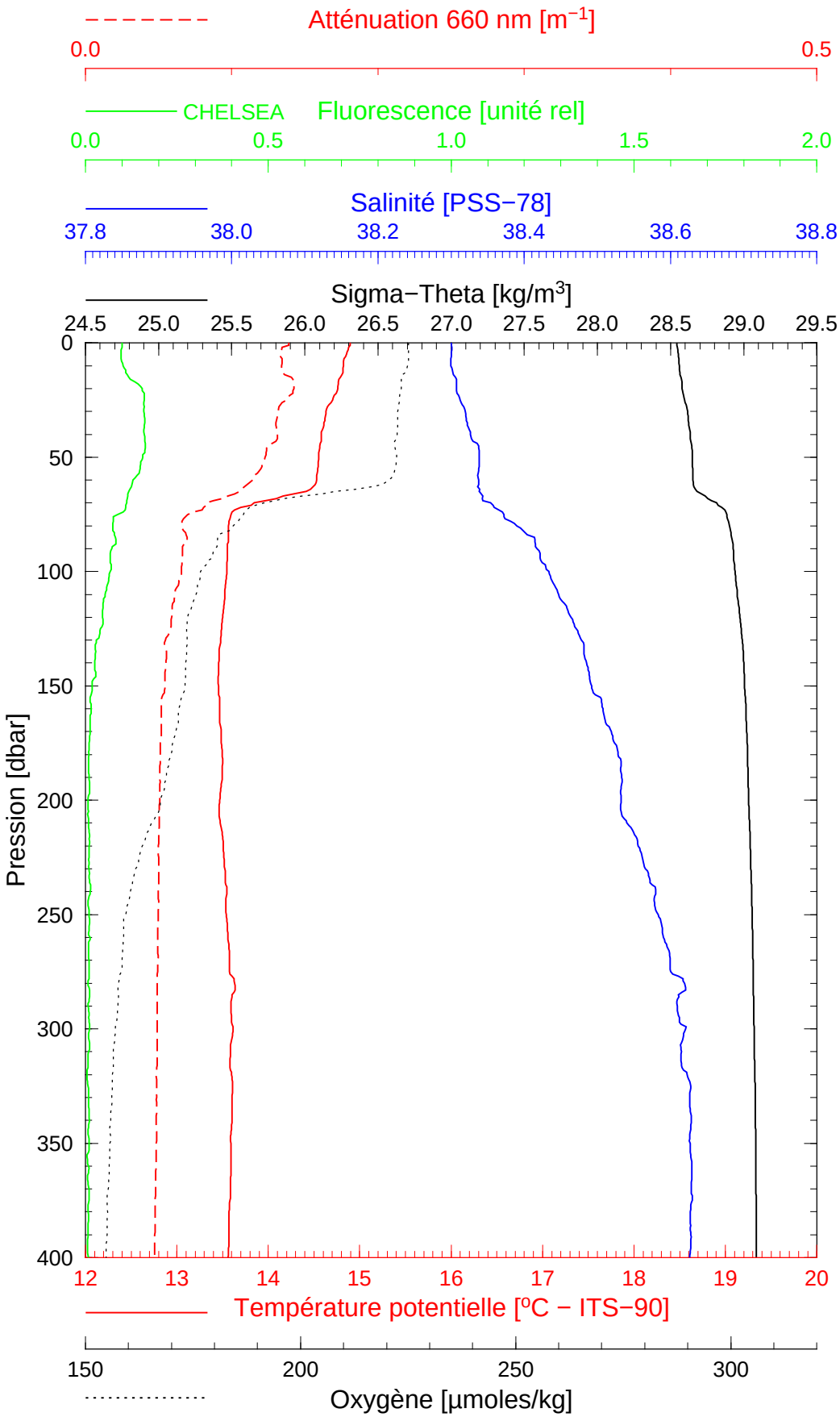
BOUS002



Date	*08/12/2016*	*Latitude*	*43°21.984 N*
Heure déb	*11h 35min [TU]*	*Longitude*	*07°53.800 E*

BOUSSOLE 178 **09/12/2016** **BOUS161209_01**

BOUS003

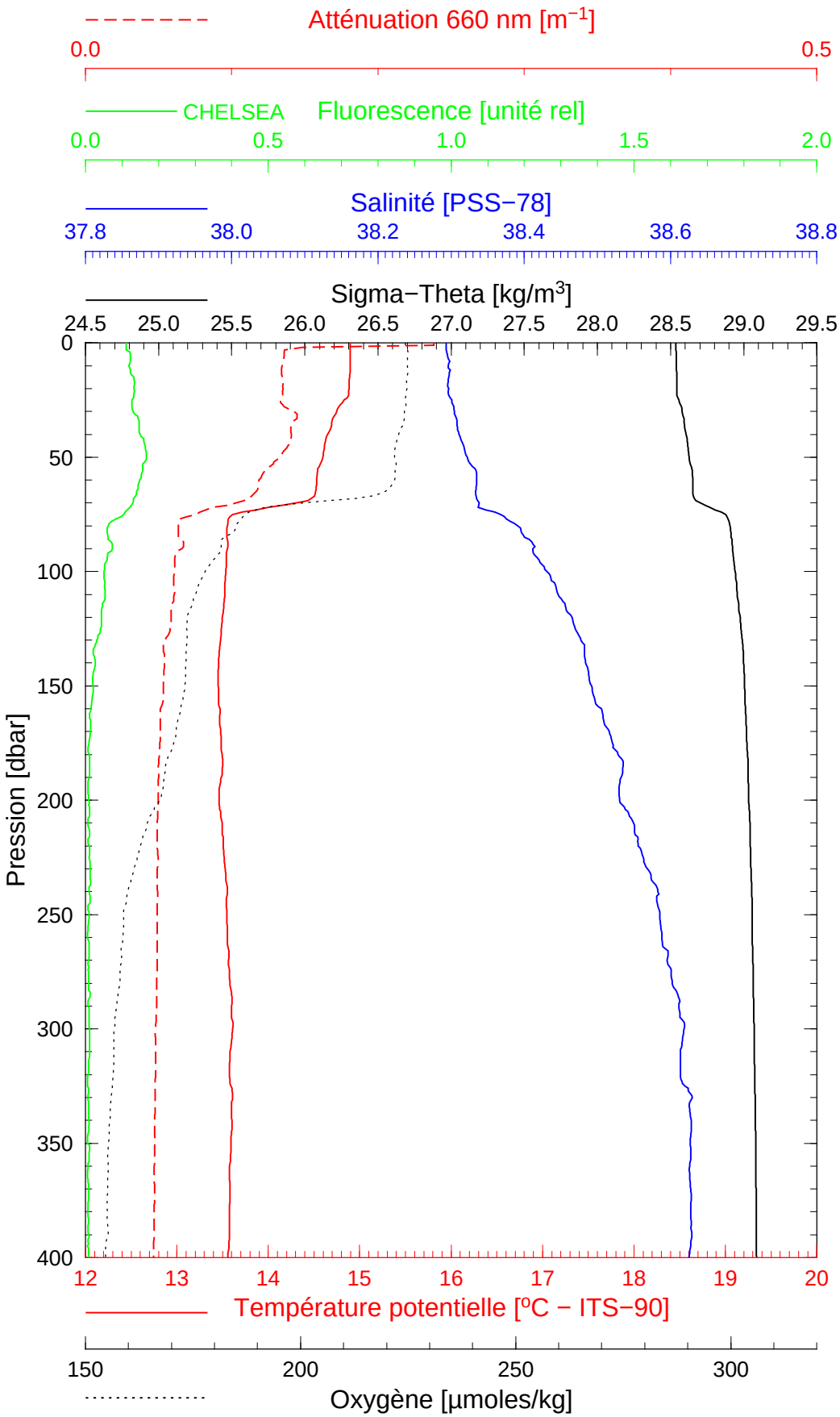


Date *09/12/2016* *Latitude* *43°22.087 N*

Heure déb *12h 54min [TU]* *Longitude* *07°54.233 E*

BOUSSOLE 178 **09/12/2016** **BOUS161209_02**

BOUS004

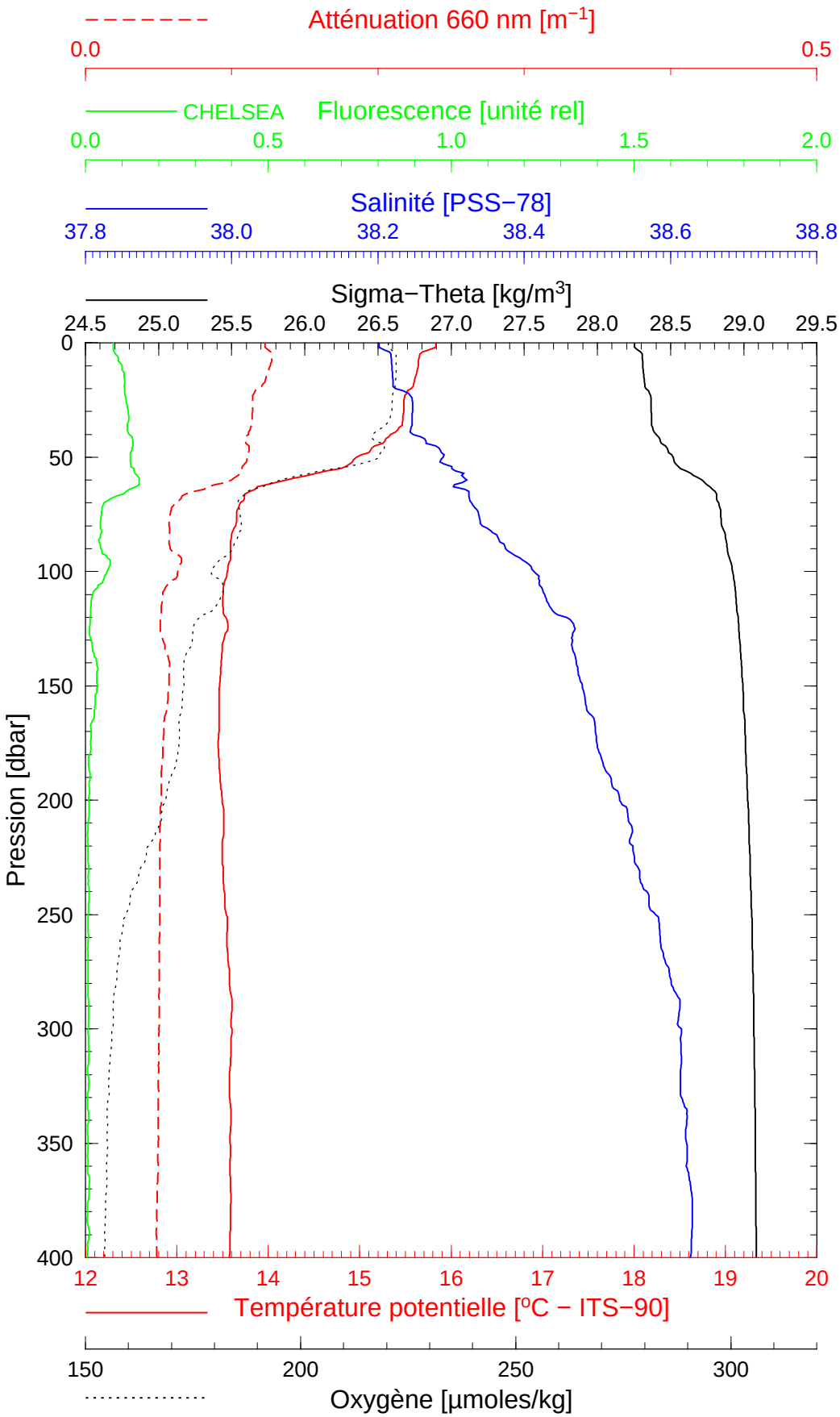


Date *09/12/2016* *Latitude* *43°22.207 N*

Heure déb *13h 31min [TU]* *Longitude* *07°54.152 E*

BOUSSOLE 178 **10/12/2016** **BOUS161210_01**

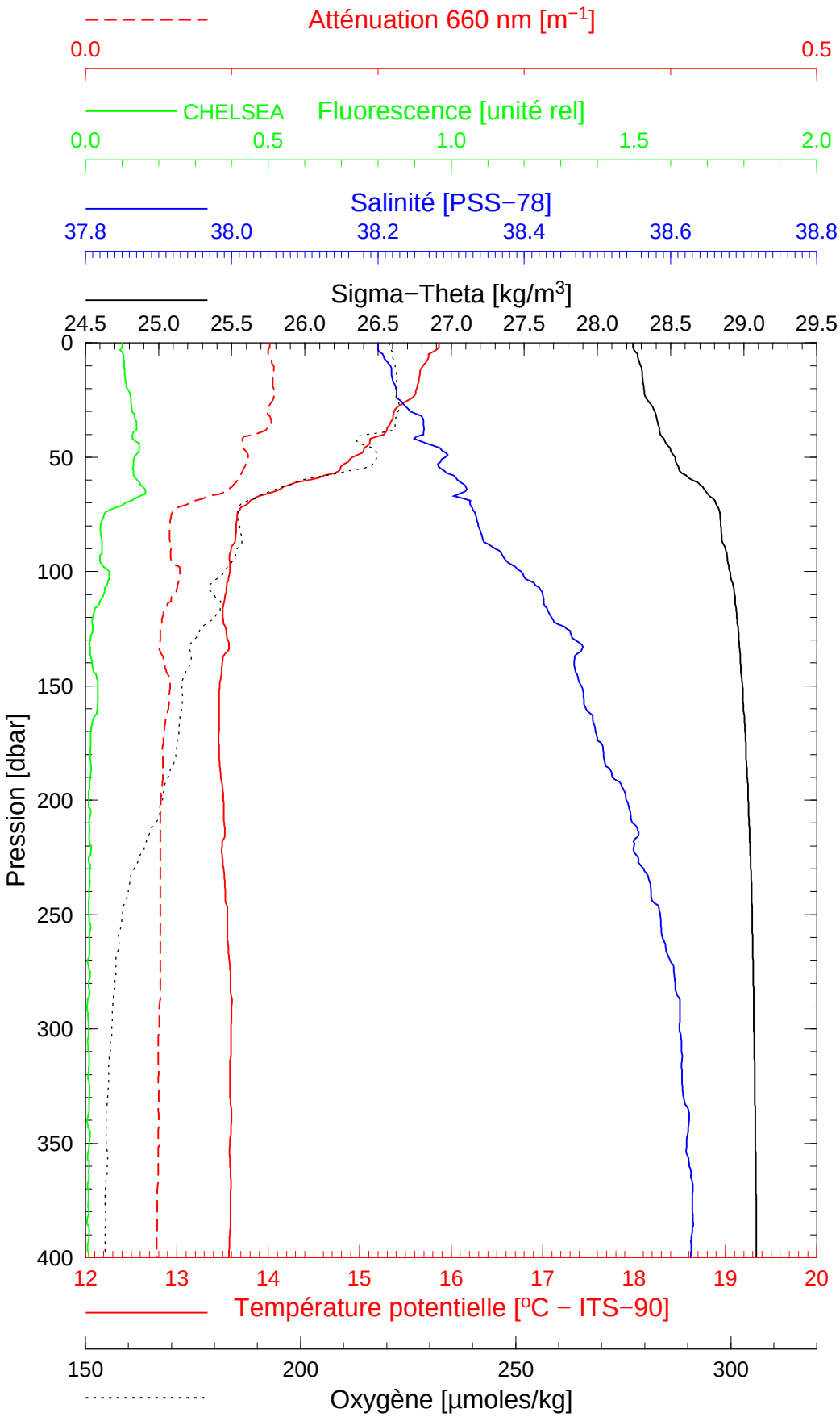
BOUS005



Date	*10/12/2016*	*Latitude*	*43o21.988 N*
Heure déb	*11h 00min [TU]*	*Longitude*	*07o53.736 E*

BOUSSOLE 178 **10/12/2016** **BOUS161210_02**

BOUS006



Date	*10/12/2016*	*Latitude*	*43°22.063 N*
Heure déb	*12h 04min [TU]*	*Longitude*	*07°53.740 E*

Problems identified during the cruises

BOUSSOLE #167

It was not possible to use the main BOUSSOLE Rosette on the deck of the Sagitta III: the electrocarrier cable was not operational. So, the water sampling was performed directly with Niskin bottles and a messenger.

Navigation files not available.

BOUSSOLE #168

The second day, 2 CTD casts were attempted and failed. In fact, that was due to the connection between the CTD and the electrocarrier cable. Fuses had blown two times successively and a burning smell was detected on the extension cable between the CTD and the electrocarrier cable. The problem was solved by changing the fuse and removing the extension cable that was faulty.

CTD 03: Niskin bottle #9 did not close, so there was no sampling at 30m. However the HPLC, a_p and CDOM were sampled the same day at 30 m during the CTD 04 cast in order to complete the discrete sampling.

Navigation files not available.

BOUSSOLE #169

O_2 data from the CTD 01 and CTD 02 were bad: after the CTD 01 cast, the tube arriving to the O_2 sensor was checked and re-adjusted. But the problem persisted during the CTD 02 cast. Then, the problem was solved by cleaning the connector of the O_2 sensor. O_2 data were good during the deep CTD cast at the DYFAMED site (after cleaning of the O_2 sensor connector).

Problems appeared with the communication between the CTD and the deck unit after the first CTD cast. In fact, during the previous cruise, the same issue was due to the connection between the CTD and the electrocarrier cable. A fuse had blown and a burning smell was detected on the extension cable between the CTD and the electrocarrier cable. The problem was solved by changing the fuse and removing the extension cable that was faulty.

Navigation files not available.

BOUSSOLE #170

CTD 01 and CTD 02: Problems appeared on the O_2 data. It appeared that the cable was faulty. The problem was solved the next day by changing the cable between the O_2 sensor and the CTD.

BOUSSOLE #171

No problems.

BOUSSOLE#172

CTD 03: the Niskin bottle # 6 was leaking.

BOUSSOLE#173

It was not possible to use the main BOUSSOLE Rosette on the deck of the Sagitta III: the electrocarrier cable was not operational. So, the water sampling was performed directly with Niskin bottles and messengers.

The first CTD cast has failed. When data were checked after its deployment, it appeared that no data were recorded. The problem was due to a contact failure with the switch of the CTD.

Navigation files not available.

BOUSSOLE#174

The Thermosalinograph of the R/V *Téthys II* was not operational for this cruise.

Navigation files not available.

BOUSSOLE #175

The last day, during the CTD 02 cast, the IOP data were not recorded because the data logger was not switched on before deployment.

The filtration of HPLC, ap took a long time. It was probably due to a leak on the filtration system. The system will be checked on the lab.

The Thermosalinograph of the R/V *Téthys II* was not operational for this cruise.

BOUSSOLE #176

The filtration of HPLC, ap took a long time as during the previous cruise. The system was checked in the lab before the cruise but maybe there was another leak on the filtration system. The filtration system was checked again: the connections were repositioned because one of the tubes was not well positioned and the fittings were tightened. After this maintenance, the filtration was better than before but there was still not enough pressure on the manometer. The system will be checked again and possibly changed for the next cruise.

The surface fluorimeter of the R/V *Téthys II* was not operational for this cruise.

BOUSSOLE #177

The surface fluorimeter of the R/V *Téthys II* was not operational for this cruise.