



# Anomalies on Argo profiles

From warning objective analysis, netcdf file analysis

**May 2014**

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**Coriolis**

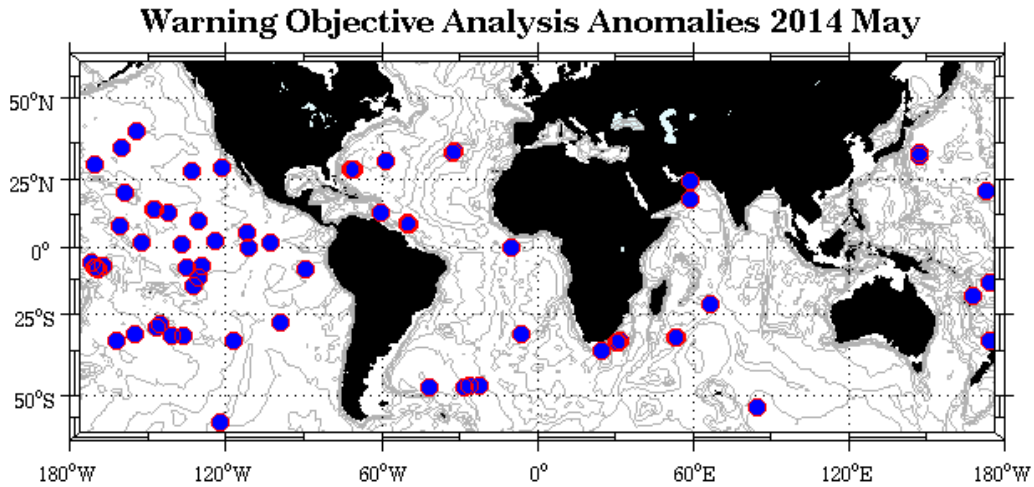
# Anomalies by DAC

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# 1. DAC AOML

Profiles detected by the objective analysis: 73

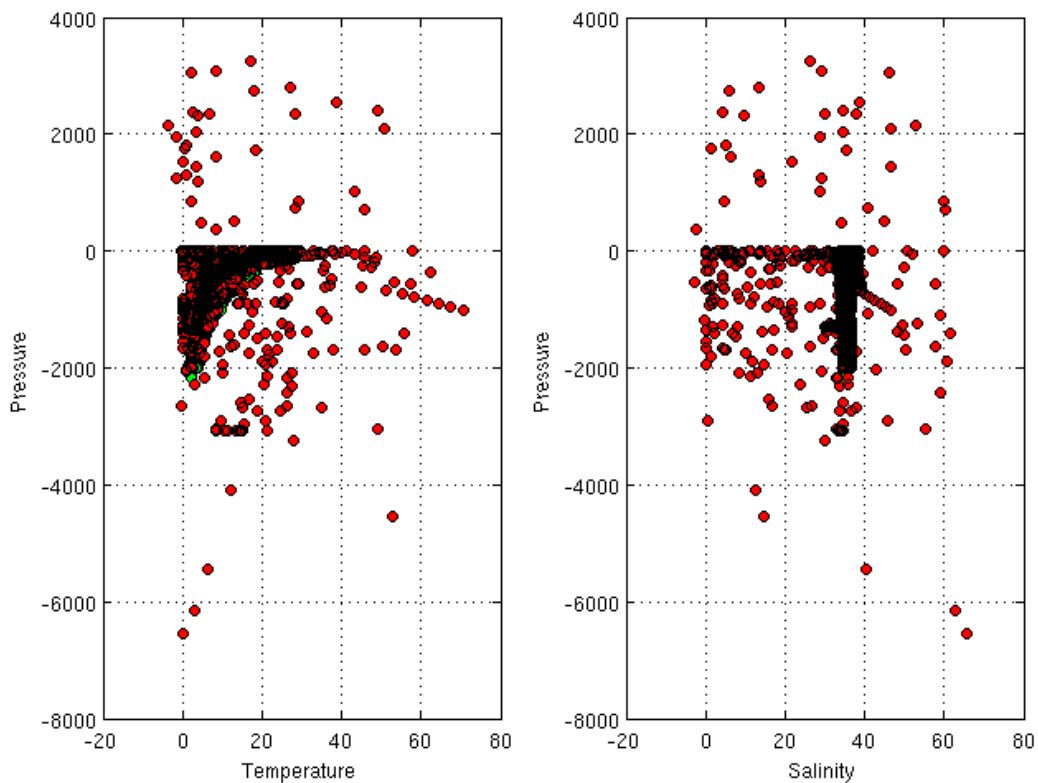


### Status of corrections: Done except for few profiles –

- Float : 1900975 - Cycle : 180 - PI : GREGORY C. JOHNSON - Data mode : A - INST REF : APEX\_SBE\_4013 - Date : 2014 5 23
- Float : 1901395 - Cycle : 160 - PI : STEPHEN RISER - Data mode : R - INST REF : APEX\_SBE\_4353 - Date : 2014 5 26
- Float : 1901504 - Cycle : 110 - PI : BRECK OWENS - Data mode : R - INST REF : SOLO\_SBE\_0966 - Date : 2014 5 1
- Float : 1901504 - Cycle : 111 - PI : BRECK OWENS - Data mode : R - INST REF : SOLO\_SBE\_0966 - Date : 2014 5 11
- Float : 1901504 - Cycle : 112 - PI : BRECK OWENS - Data mode : R - INST REF : SOLO\_SBE\_0966 - Date : 2014 5 21
- Float : 1901587 - Cycle : 81 - PI : BRECK OWENS - Data mode : R - INST REF : SOLO\_SBE\_1125 - Date : 2014 5 26
- Float : 1901596 - Cycle : 36 - PI : BRECK OWENS - Data mode : R - INST REF : SOLO\_SBE\_1135 - Date : 2014 5 25
- Float : 1901692 - Cycle : 27 - PI : Breck Owens, Steve Jayne, and P.E. Robbi - Data mode : R - INST REF : SOLO2IR\_SBE\_7159 - Date : 2014 5 17
- Float : 1901696 - Cycle : 119 - PI : Breck Owens, Steve Jayne, P.E. Robbins - Data mode : R - INST REF : SOLO2IR\_SBE\_7185 - Date : 2014 4 19
- Float : 1901696 - Cycle : 120 - PI : Breck Owens, Steve Jayne, P.E. Robbins - Data mode : R - INST REF : SOLO2IR\_SBE\_7185 - Date : 2014 4 24
- Float : 1901696 - Cycle : 121 - PI : Breck Owens, Steve Jayne, P.E. Robbins - Data mode : R - INST REF : SOLO2IR\_SBE\_7185 - Date : 2014 4 29
- Float : 1901696 - Cycle : 122 - PI : Breck Owens, Steve Jayne, P.E. Robbins - Data mode : R - INST REF : SOLO2IR\_SBE\_7185 - Date : 2014 5 4
- Float : 1901696 - Cycle : 123 - PI : Breck Owens, Steve Jayne, P.E. Robbins - Data mode : R - INST REF : SOLO2IR\_SBE\_7185 - Date : 2014 5 9
- Float : 2901415 - Cycle : 163 - PI : CARL SZCZECZOWSKI - Data mode : A - INST REF : APEX\_SBE\_5907 - Date : 2014 4 29
- Float : 2901418 - Cycle : 168 - PI : CARL SZCZECZOWSKI - Data mode : A - INST REF : APEX\_SBE\_5910 - Date : 2014 5 19
- Float : 2901450 - Cycle : 91 - PI : CARL SZCZECZOWSKI - Data mode : A - INST REF : APEX\_SBE\_6492 - Date : 2014 4 23
- Float : 2901450 - Cycle : 92 - PI : CARL SZCZECZOWSKI - Data mode : A - INST REF : APEX\_SBE\_6492 - Date : 2014 4 27
- Float : 3900760 - Cycle : 169 - PI : Breck Owens - Data mode : R - INST REF : SOLOIR\_SBE\_0964 - Date : 2014 5 5
- Float : 3900844 - Cycle : 229 - PI : STEPHEN RISER - Data mode : D - INST REF : APEX\_SBE\_3102 - Date : 2014 4 24
- Float : 3901002 - Cycle : 75 - PI : Breck Owens - Data mode : R - INST REF : SOLO2IR\_SBE\_7039 - Date : 2014 5 15
- Float : 3901154 - Cycle : 42 - PI : Gregory C. Johnson - Data mode : R - INST REF : NAVISIR\_SBE\_0197 - Date : 2014 5 20
- Float : 3901157 - Cycle : 43 - PI : Gregory C. Johnson - Data mode : R - INST REF : NAVISIR\_SBE\_0210 - Date : 2014 5 23
- Float : 3901158 - Cycle : 1 - PI : Gregory C. Johnson - Data mode : R - INST REF : NAVISIR\_SBE\_0282 - Date : 2014 4 7
- Float : 3901166 - Cycle : 3 - PI : Gregory C. Johnson - Data mode : R - INST REF : NAVISIR\_SBE\_0284 - Date : 2014 4 25
- Float : 4900853 - Cycle : 202 - PI : GREGORY C. JOHNSON - Data mode : R - INST REF : APEX\_SBE\_3966 - Date : 2014 5 21
- Float : 4901016 - Cycle : 196 - PI : BRECK OWENS - Data mode : R - INST REF : SOLO\_SBE\_SL883 - Date : 2014 5 11
- Float : 4901016 - Cycle : 197 - PI : BRECK OWENS - Data mode : R - INST REF : SOLO\_SBE\_SL883 - Date : 2014 5 21
- Float : 4901436 - Cycle : 88 - PI : GREGORY C. JOHNSON - Data mode : A - INST REF : APEX\_SBE\_5324 - Date : 2014 4 28
- Float : 4901451 - Cycle : 47 - PI : BRECK OWENS - Data mode : R - INST REF : SOLO\_SBE\_1098 - Date : 2014 4 27
- Float : 4901451 - Cycle : 48 - PI : BRECK OWENS - Data mode : R - INST REF : SOLO\_SBE\_1098 - Date : 2014 5 7
- Float : 4901451 - Cycle : 49 - PI : BRECK OWENS - Data mode : R - INST REF : SOLO\_SBE\_1098 - Date : 2014 5 17
- Float : 4901549 - Cycle : 47 - PI : Gregory C. Johnson - Data mode : R - INST REF : NAVISIR\_SBE\_0204 - Date : 2014 4 25
- Float : 4901586 - Cycle : 27 - PI : Breck Owens, Steve Jayne, and P.E. Robbi - Data mode : R - INST REF : SOLO2IR\_SBE\_7174 - Date : 2014 5 11
- Float : 4901586 - Cycle : 28 - PI : Breck Owens, Steve Jayne, and P.E. Robbi - Data mode : R - INST REF : SOLO2IR\_SBE\_7174 - Date : 2014 5 21
- Float : 5900425 - Cycle : 356 - PI : STEPHEN RISER - Data mode : R - INST REF : APEX\_SBE\_1030 - Date : 2014 4 24
- Float : 5900665 - Cycle : 336 - PI : GREGORY C. JOHNSON - Data mode : A - INST REF : APEX\_SBE\_1592 - Date : 2014 5 15
- Float : 5900665 - Cycle : 337 - PI : GREGORY C. JOHNSON - Data mode : A - INST REF : APEX\_SBE\_1592 - Date : 2014 5 25
- Float : 5900696 - Cycle : 328 - PI : STEPHEN RISER - Data mode : R - INST REF : APEX\_SBE\_1708 - Date : 2014 5 4
- Float : 5900696 - Cycle : 329 - PI : STEPHEN RISER - Data mode : R - INST REF : APEX\_SBE\_1708 - Date : 2014 5 14

Float : 5900696 - Cycle : 330 - PI : STEPHEN RISER - Data mode : R - INST REF : APEX\_SBE\_1708 - Date : 2014 5 25  
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 Float : 5900886 - Cycle : 318 - PI : GREGORY C. JOHNSON - Data mode : A - INST REF : APEX\_SBE\_1880 - Date : 2014 5 19  
 Float : 5900930 - Cycle : 313 - PI : STEPHEN RISER - Data mode : R - INST REF : APEX\_SBE\_1857 - Date : 2014 5 3  
 Float : 5901012 - Cycle : 302 - PI : GREGORY C. JOHNSON - Data mode : A - INST REF : APEX\_SBE\_2156 - Date : 2014 5 16  
 Float : 5901012 - Cycle : 303 - PI : GREGORY C. JOHNSON - Data mode : A - INST REF : APEX\_SBE\_2156 - Date : 2014 5 26  
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 Float : 5903459 - Cycle : 126 - PI : Gregory C. Johnson - Data mode : A - INST REF : APEXIR\_SBE\_4603 - Date : 2014 5 10  
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 Float : 5903598 - Cycle : 91 - PI : STEPHEN RISER - Data mode : A - INST REF : APEX\_SBE\_5651 - Date : 2014 5 3  
 Float : 5903612 - Cycle : 131 - PI : Stephen Riser - Data mode : A - INST REF : APEXIR\_SBE\_5065 - Date : 2014 5 10  
 Float : 5903721 - Cycle : 115 - PI : Stephen Riser - Data mode : A - INST REF : APEXIR\_SBE\_5305 - Date : 2014 4 30  
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 Float : 5903976 - Cycle : 51 - PI : STEPHEN RISER - Data mode : A - INST REF : APEX\_SBE\_5848 - Date : 2014 4 29  
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 Float : 5903987 - Cycle : 52 - PI : STEPHEN RISER - Data mode : A - INST REF : APEX\_SBE\_6225 - Date : 2014 5 12  
 Float : 5904325 - Cycle : 54 - PI : CARL SZCZECZOWSKI - Data mode : A - INST REF : APEX\_SBE\_6483 - Date : 2014 5 10

### Warning Objective Analysis Anomalies 2014 May TEMP PSAL - DAC AO







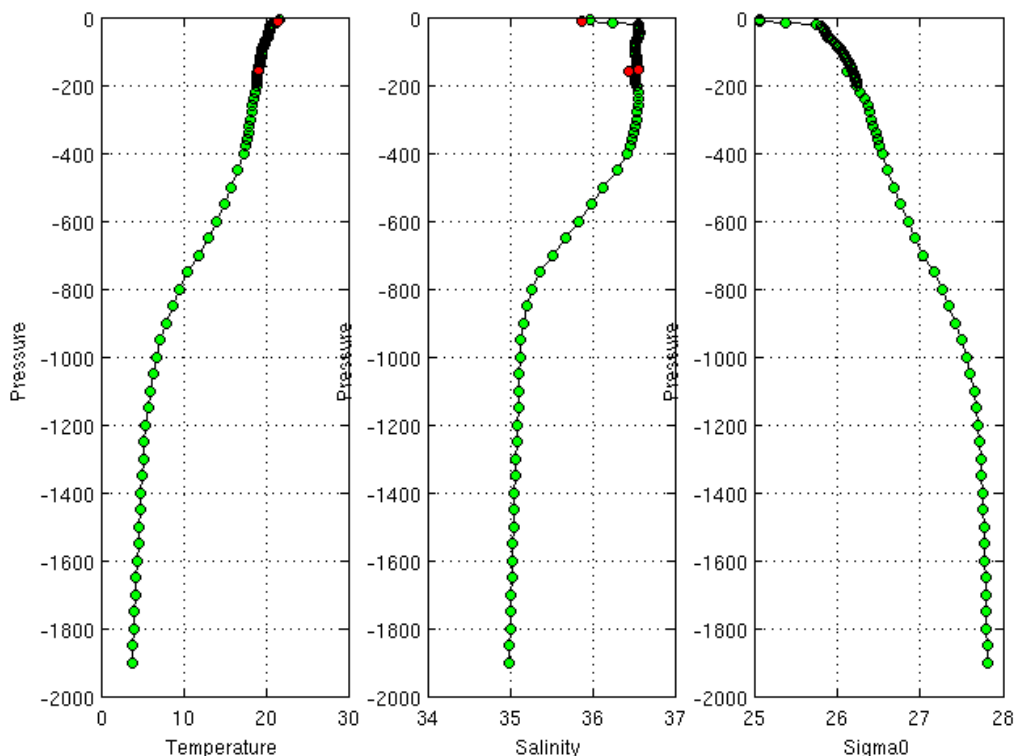


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**APEX to put on the grey list:**

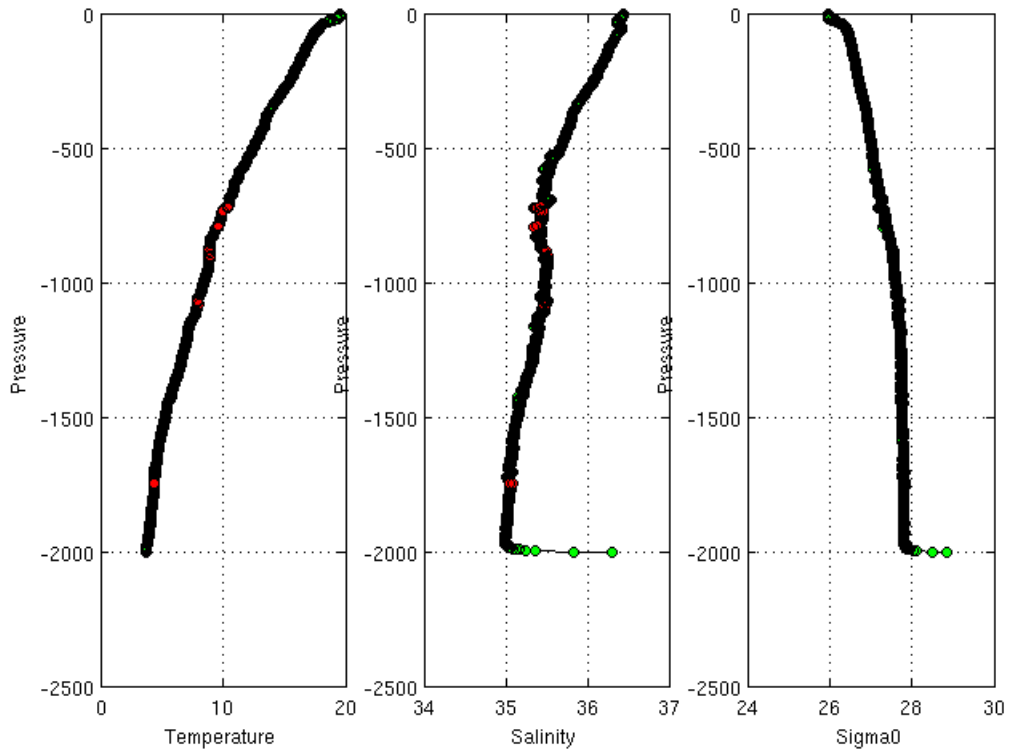
Example of corrections:

Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC AO- Float 1901596-36

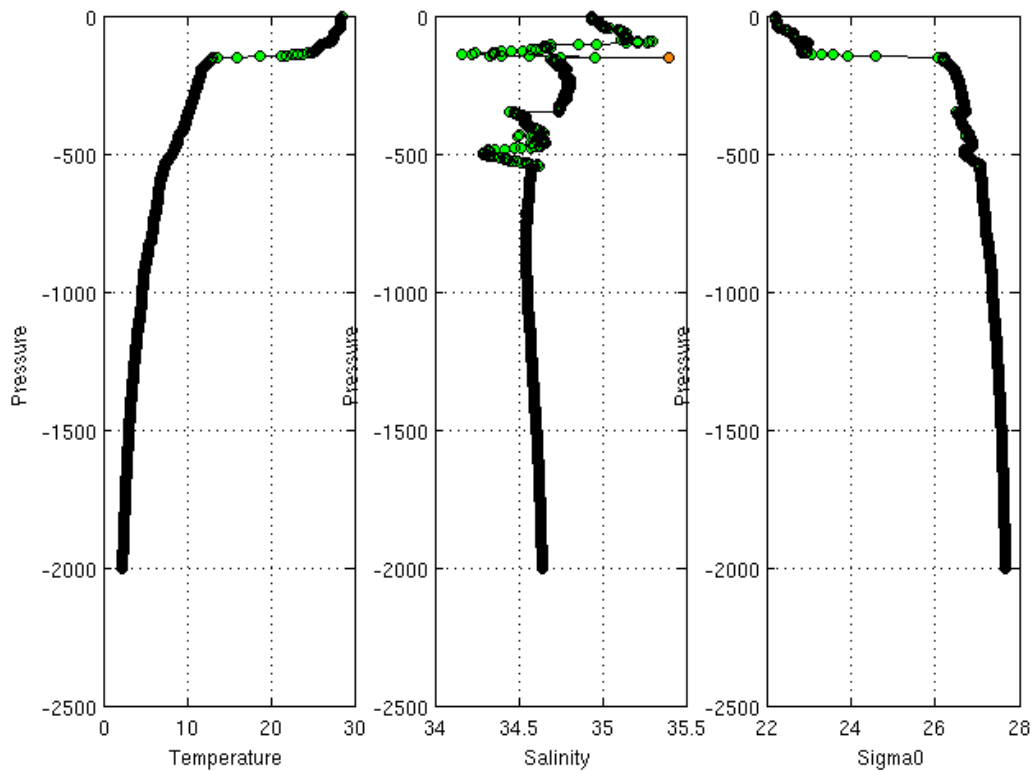




Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC AO- Float 4901586-27



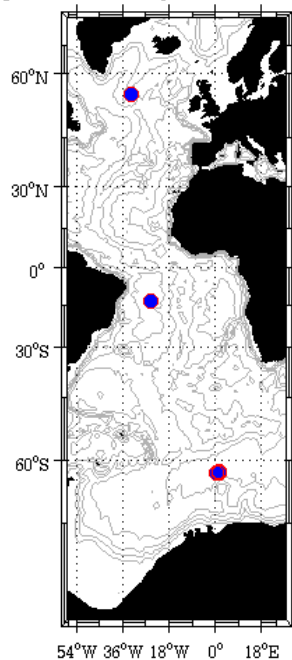
Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC AO- Float 5903459-126



## 2. DAC BODC

Profiles detected by the objective analysis: 5

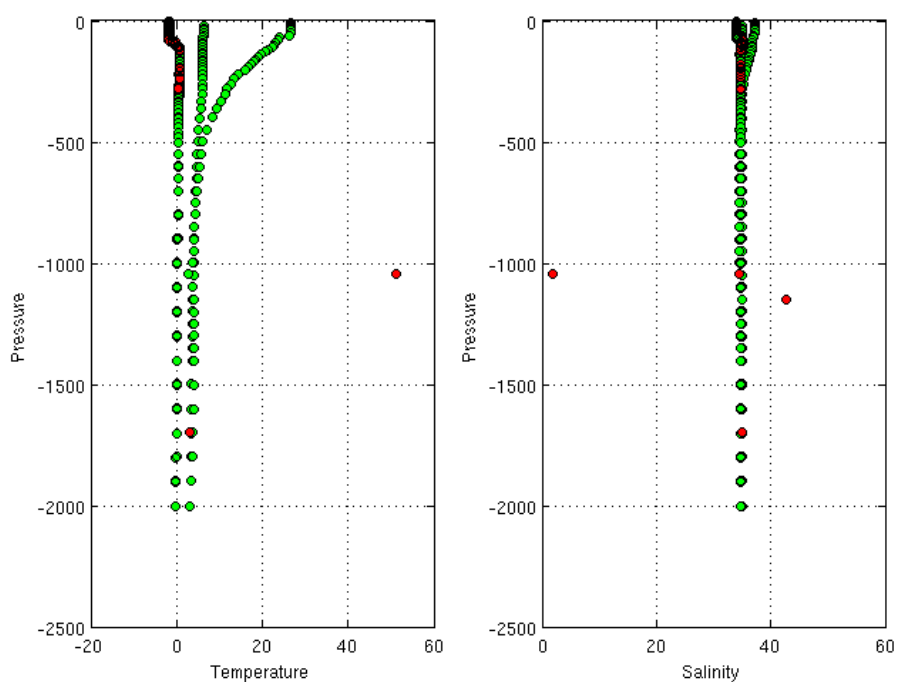
### Warning Objective Analysis Anomalies 2014 May



### Status of corrections: Not done, no feedback

Float : 1901251 - Cycle : 149 - PI : Jon Turton - Data mode : A - INST REF : APEX-SBE 4502 - Date : 2014 5 4  
Float : 1901251 - Cycle : 150 - PI : Jon Turton - Data mode : A - INST REF : APEX-SBE 4502 - Date : 2014 5 14  
Float : 1901251 - Cycle : 151 - PI : Jon Turton - Data mode : A - INST REF : APEX-SBE 4502 - Date : 2014 5 24  
Float : 3900309 - Cycle : 22 - PI : Jon Turton - Data mode : A - INST REF : APEX-SBE 6612 - Date : 2014 5 25  
Float : 6901134 - Cycle : 63 - PI : Jon Turton - Data mode : A - INST REF : APEX-SBE 5538 - Date : 2014 4 25

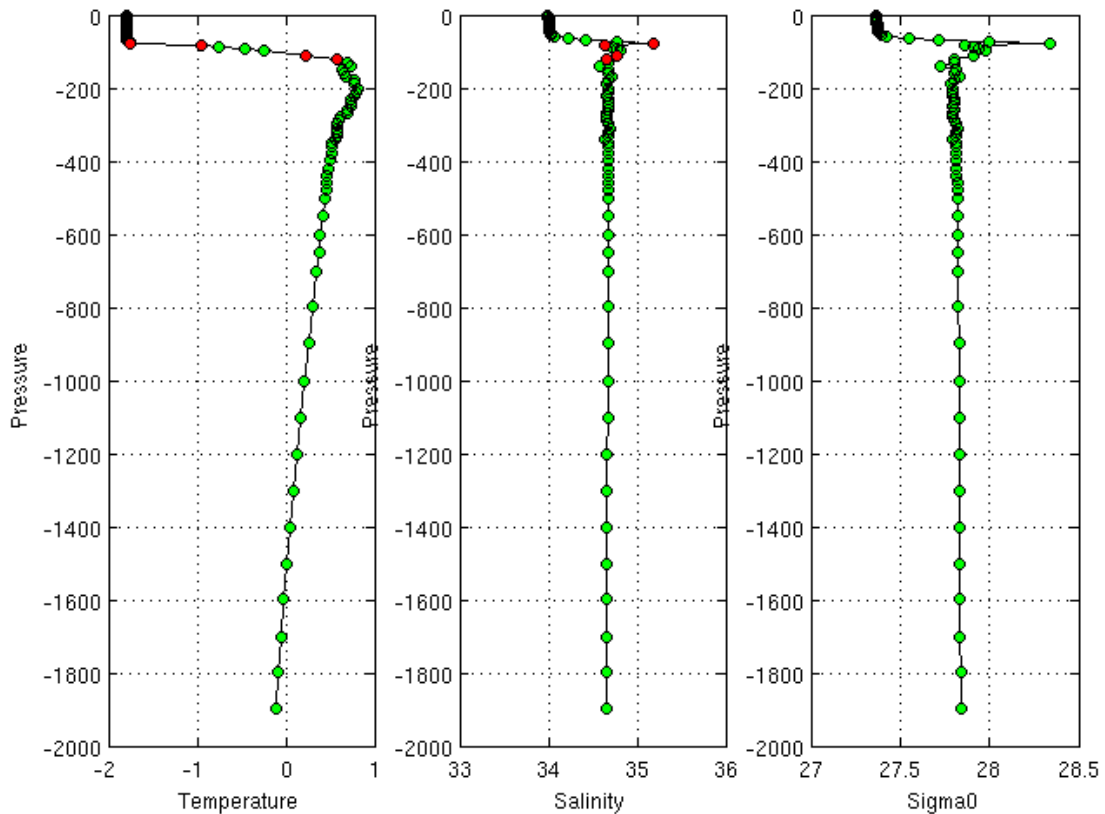
### Warning Objective Analysis Anomalies 2014 May TEMP PSAL - DAC BO



DAC\_CODE,PLATFORM\_CODE,CV\_NUMBER,DATE\_UPDATE,DIRECTION,WEB\_URL,PARAMETER,START\_IMMERSION,STOP\_IMMERSION,OLD\_QC,NEW\_QC  
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 BO,3900309,22,25/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33141018 ,TEMP,1047,1047,1,4  
 BO,1901251,151,24/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33138837 ,PSAL,75.5,75.5,1,4  
 BO,1901251,151,24/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33138837 ,PSAL,89.8,99.7,1,4  
 BO,1901251,151,24/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33138837 ,PSAL,130.5,150.3,1,4  
 BO,1901251,151,24/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33138837 ,PSAL,340.3,340.3,1,4  
 BO,1901251,151,24/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33138837 ,TEMP,89.8,99.7,1,4  
 BO,1901251,151,24/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33138837 ,TEMP,130.5,150.3,1,4  
 BO,1901251,151,24/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33138837 ,TEMP,340.3,340.3,1,4

Example of corrections:

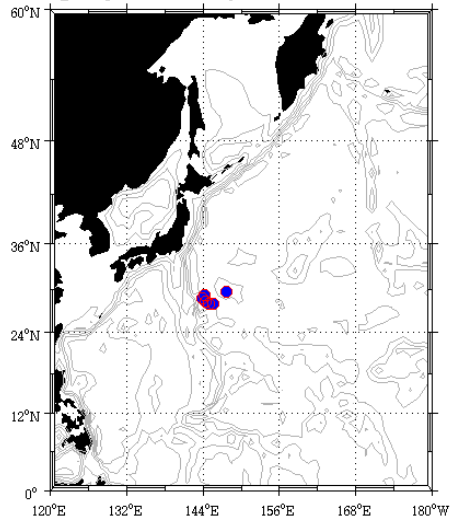
**Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC BO- Float 1901251-151**



### 3. DAC CSIO

Profiles detected by the objective analysis: 6

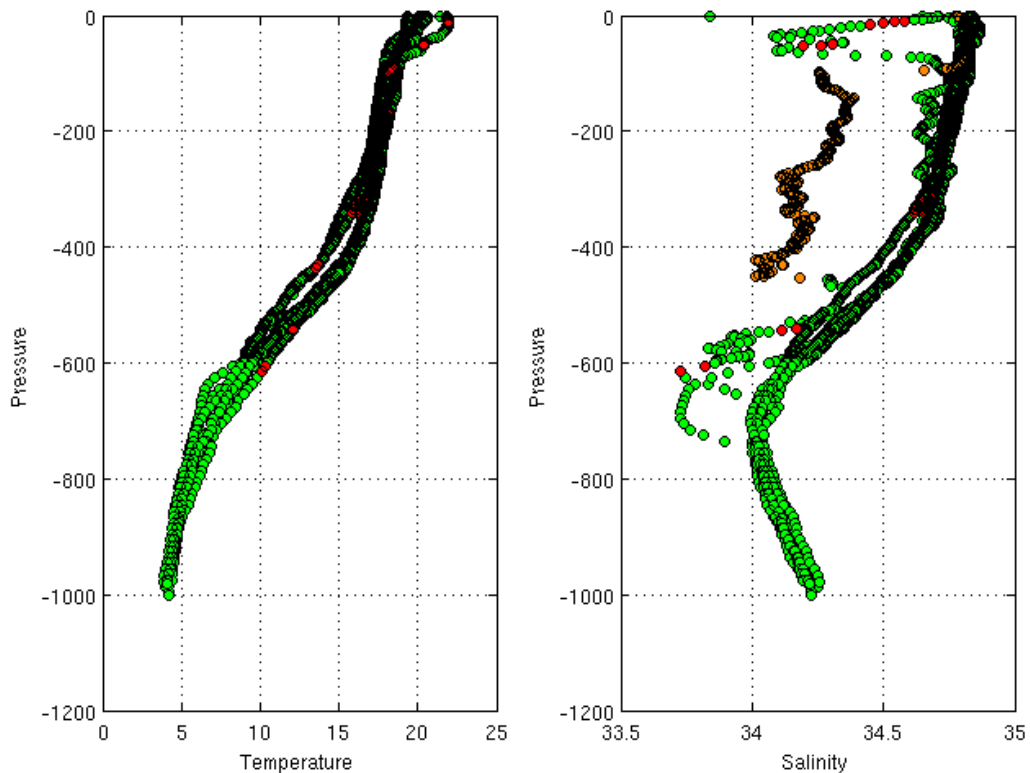
Warning Objective Analysis Anomalies 2014 May



**Status of corrections: Not Done, No Feedback**

Float : 2901551 - Cycle : 53 - PI : Shangping Xie - Data mode : A - INST REF : - Date : 2014 5 19  
Float : 2901554 - Cycle : 52 - PI : Shangping Xie - Data mode : A - INST REF : - Date : 2014 5 18  
Float : 2901555 - Cycle : 35 - PI : Shangping Xie - Data mode : A - INST REF : - Date : 2014 5 1  
Float : 2901558 - Cycle : 48 - PI : Shangping Xie - Data mode : A - INST REF : - Date : 2014 5 14  
Float : 2901559 - Cycle : 49 - PI : Shangping Xie - Data mode : A - INST REF : - Date : 2014 5 15

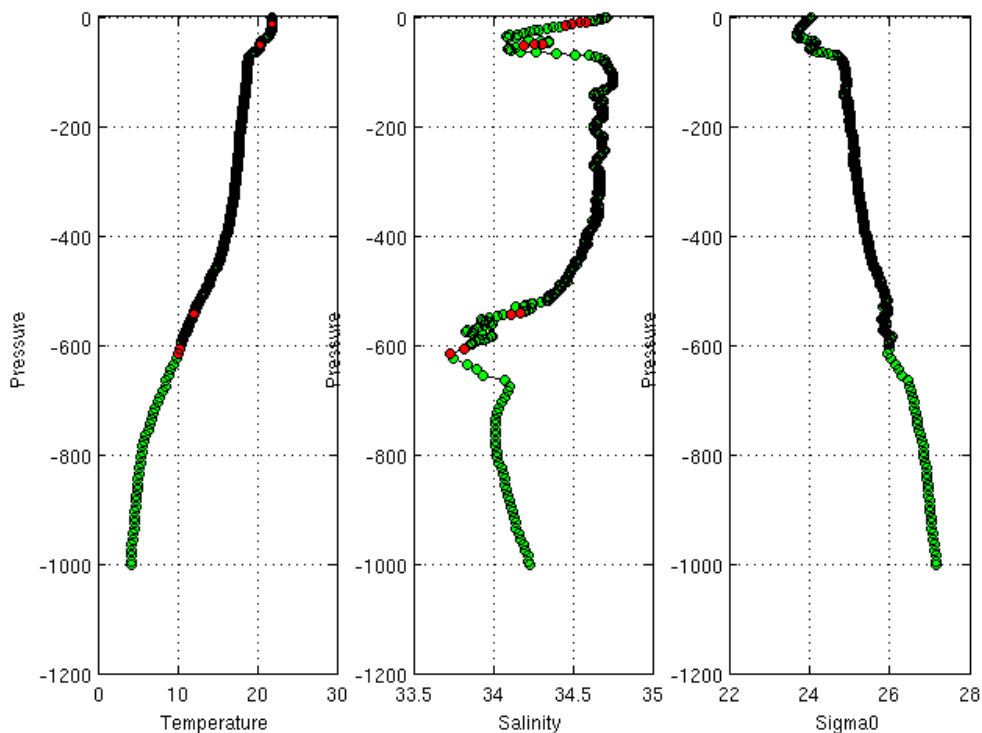
Warning Objective Analysis Anomalies 2014 May TEMP PSAL - DAC HZ



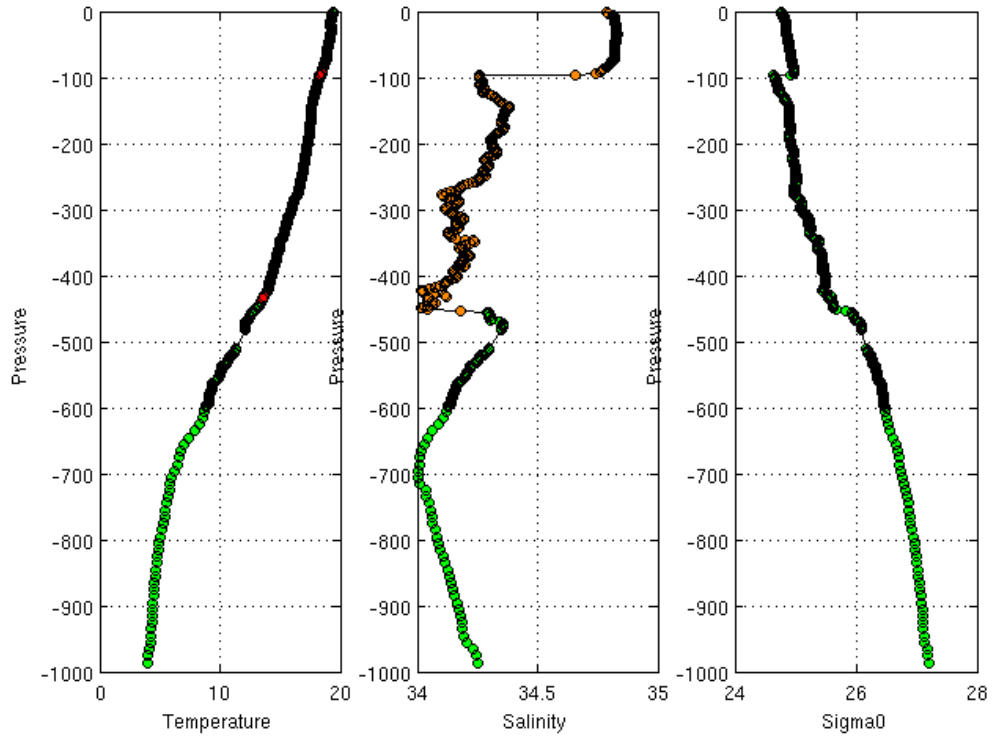
HZ,2901555,35,01/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33016984 ,PSAL,99.7,429.4,1,4  
 HZ,2901555,35,01/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33016984 ,PSAL,437.5,481.1,1,4  
 HZ,2901558,48,14/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33071842 ,PSAL,319.1,319.1,1,4  
 HZ,2901558,48,14/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33071842 ,PSAL,331.5,331.5,1,4  
 HZ,2901558,48,14/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33071842 ,PSAL,335.3,335.3,1,4  
 HZ,2901558,48,14/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33071842 ,PSAL,337.5,337.5,1,4  
 HZ,2901558,48,14/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33071842 ,PSAL,341.5,341.5,1,4  
 HZ,2901558,48,14/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33071842 ,TEMP,319.1,319.1,1,4  
 HZ,2901558,48,14/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33071842 ,TEMP,331.5,331.5,1,4  
 HZ,2901558,48,14/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33071842 ,TEMP,335.3,335.3,1,4  
 HZ,2901558,48,14/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33071842 ,TEMP,337.5,337.5,1,4  
 HZ,2901558,48,14/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33071842 ,TEMP,341.5,341.5,1,4  
 HZ,2901559,49,15/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33086228 ,PSAL,171.6,175.3,1,4  
 HZ,2901559,49,15/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33086228 ,PSAL,187.1,187.1,1,4  
 HZ,2901559,49,15/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33086228 ,TEMP,171.6,175.3,1,4  
 HZ,2901559,49,15/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33086228 ,TEMP,187.1,187.1,1,4  
 HZ,2901551,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093770 ,PSAL,2.7,2.1,4  
 HZ,2901551,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093770 ,PSAL,17.3,47.7,1,4  
 HZ,2901551,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093770 ,PSAL,55.6,539.5,1,4  
 HZ,2901551,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093770 ,PSAL,545.5,599.8,1,4  
 HZ,2901551,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093770 ,PSAL,625.1,665.6,1,4  
 HZ,2901554,52,21/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093774 ,PSAL,3.3,3.1,4  
 HZ,2901554,52,21/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093774 ,TEMP,3.3,3.1,4  
 HZ,2901559,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093805 ,PSAL,177,177.2,1,4  
 HZ,2901559,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093805 ,PSAL,189.7,189.7,1,4  
 HZ,2901559,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093805 ,TEMP,177,177.2,1,4  
 HZ,2901559,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093805 ,TEMP,189.7,189.7,1,4  
 HZ,2901551,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093770 ,PSAL,2.7,2.1,4  
 HZ,2901551,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093770 ,PSAL,17.3,47.7,1,4  
 HZ,2901551,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093770 ,PSAL,55.6,539.5,1,4  
 HZ,2901551,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093770 ,PSAL,545.5,599.8,1,4  
 HZ,2901551,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093770 ,PSAL,625.1,665.6,1,4  
 HZ,2901554,52,21/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093774 ,PSAL,3.3,3.1,4  
 HZ,2901554,52,21/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093774 ,TEMP,3.3,3.1,4  
 HZ,2901559,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093805 ,PSAL,177,177.2,1,4  
 HZ,2901559,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093805 ,PSAL,189.7,189.7,1,4  
 HZ,2901559,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093805 ,TEMP,177,177.2,1,4  
 HZ,2901559,53,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093805 ,TEMP,189.7,189.7,1,4

Example of corrections:

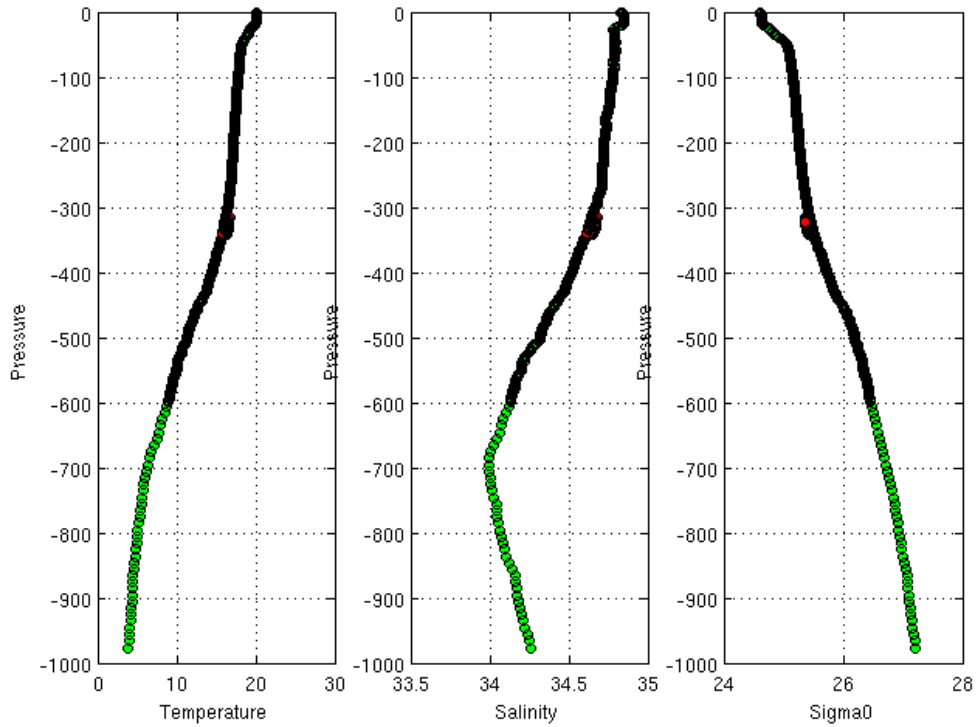
Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC HZ- Float 2901551-53



Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC HZ- Float 2901555-35

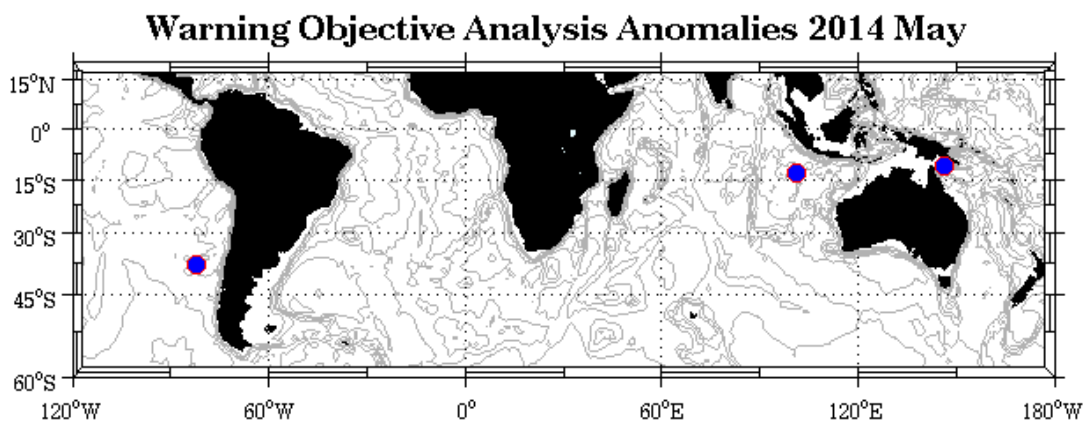


Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC HZ- Float 2901558-48



## 4. DAC CSIRO

Profiles detected by the objective analysis: 3



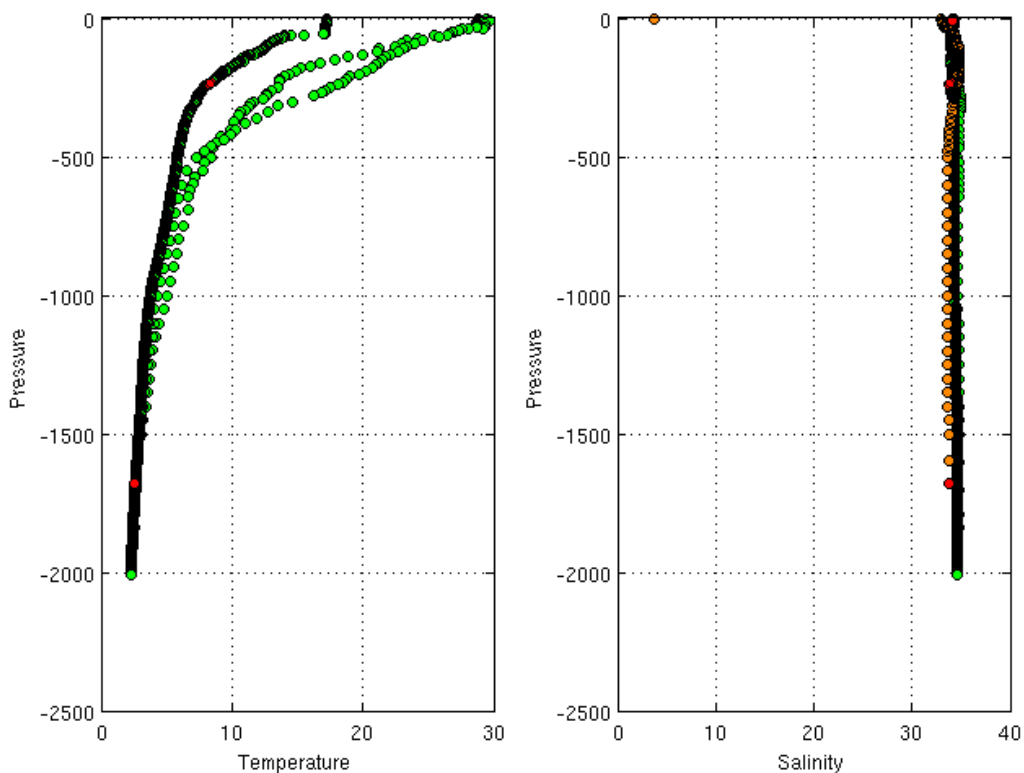
**Status of corrections: DONE with feedback**

Float : 3901467 - Cycle : 168 - PI : Susan Wijffels - Data mode : A - INST REF : - Date : 2014 4 10

Float : 5903640 - Cycle : 128 - PI : Susan Wijffels - Data mode : A - INST REF : - Date : 2014 5 2

Float : 5903914 - Cycle : 87 - PI : Susan Wijffels - Data mode : A - INST REF : - Date : 2014 4 10

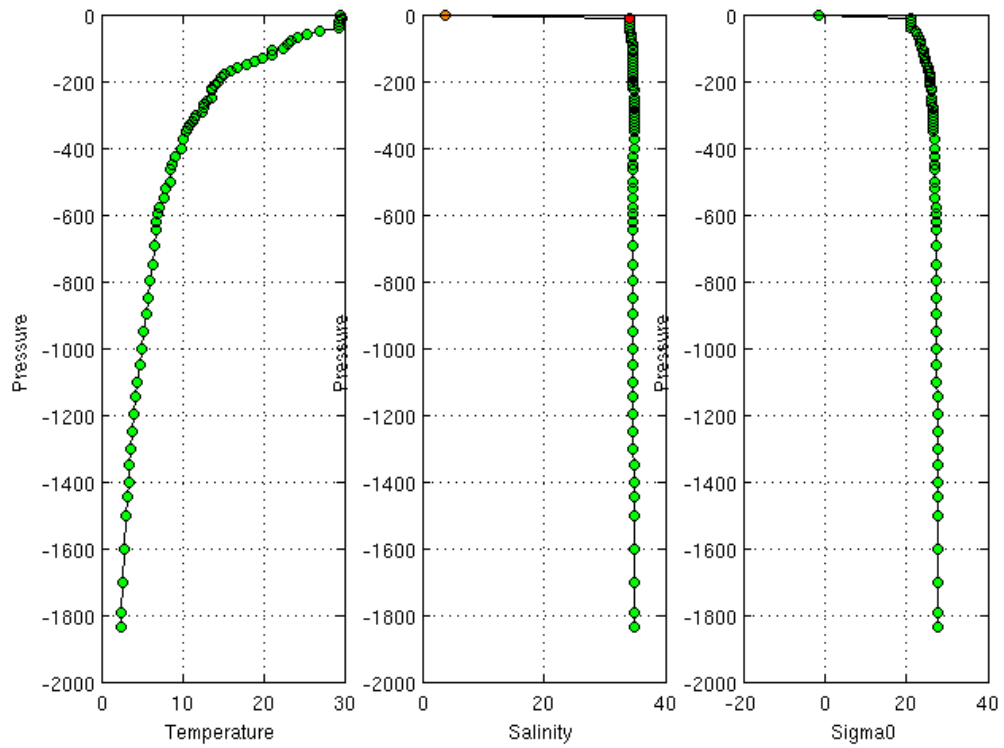
### Warning Objective Analysis Anomalies 2014 May TEMP PSAL - DAC CS



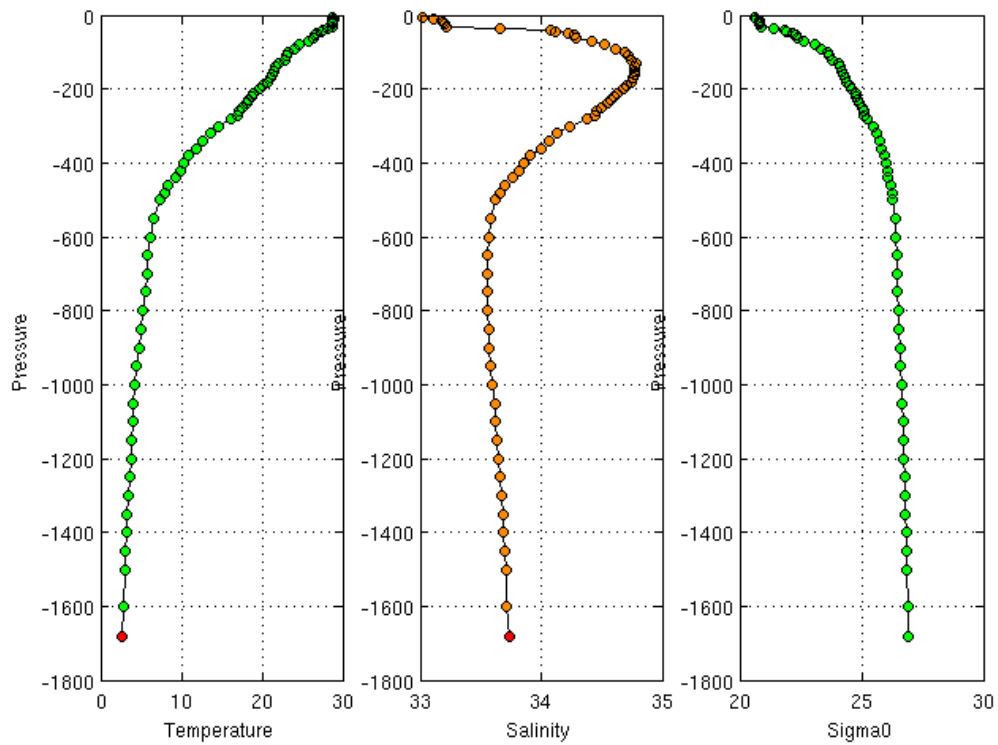
DAC\_CODE,PLATFORM\_CODE,CV\_NUMBER,DATE\_UPDATE,DIRECTION,WEB\_URL,PARAMETER,START\_IMMERSION,STOP\_IMMERSION,OLD\_QC,NEW\_QC  
CS,3901467,168,24/04/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=32920225> ,PSAL,240,304,1,4  
CS,5903640,128,05/05/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=33017236> ,PSAL,4.3,1599.9,1,3  
CS,5903914,87,22/04/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=32808955> ,PSAL,3.4,3.4,3,4

Example of corrections:

Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC CS- Float 5903914-87



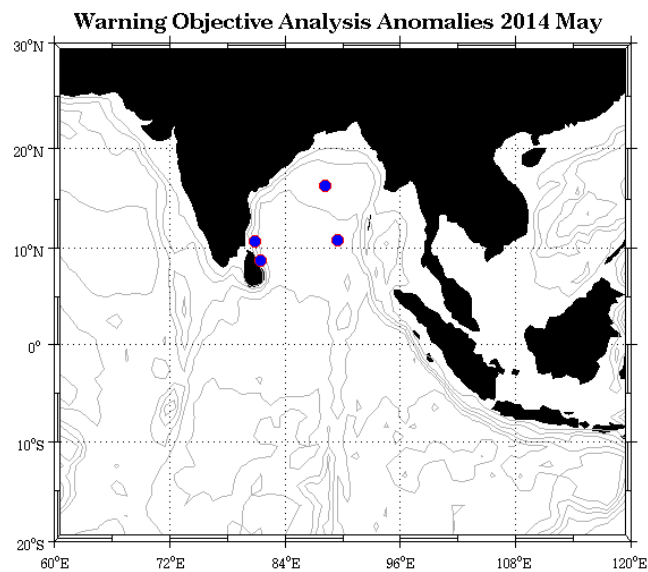
Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC CS- Float 5903640-128





## 5. DAC INCOIS

Profiles detected by the objective analysis: 4



**Status of corrections: Not done, no feedback**

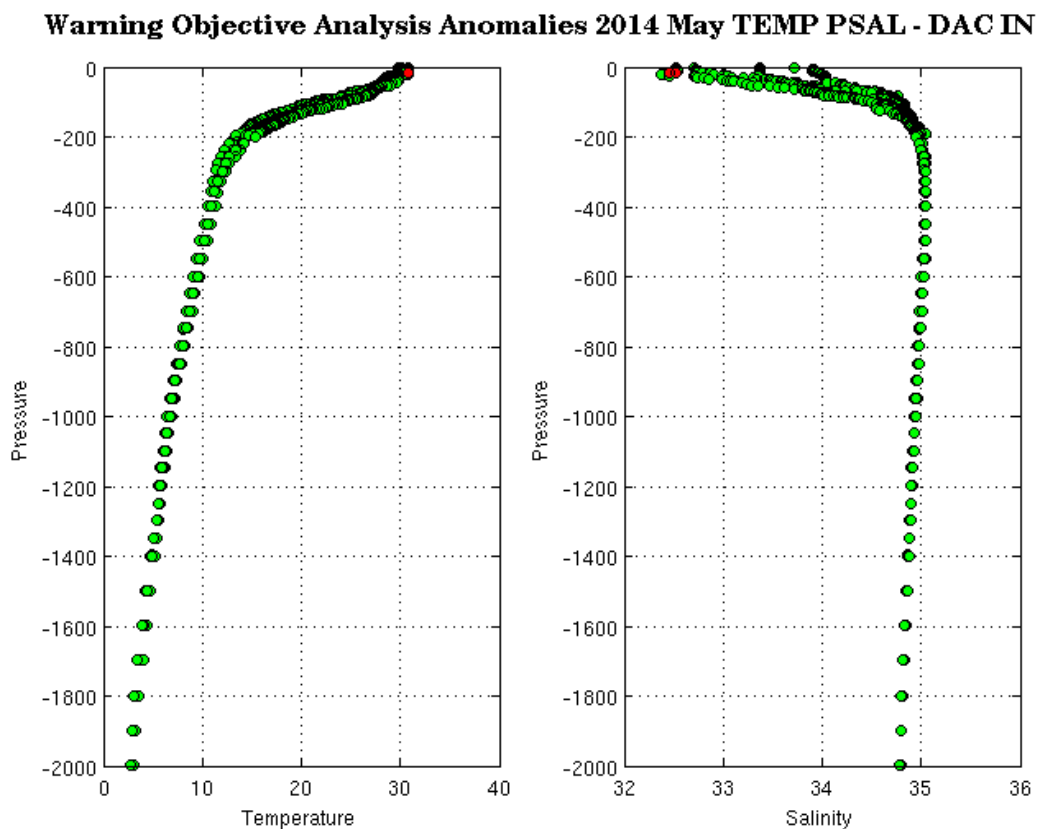
(Comment: Some (Provor/Arvor) are directly taken into account in the Coriolis process, such as decoding and quality control).

Float : 2901327 - Cycle : 225 - PI : M Ravichandran - Data mode : A - INST REF : APEX-SBE 5781 - Date : 2014 5 19

Float : 2901331 - Cycle : 224 - PI : M Ravichandran - Data mode : A - INST REF : APEX-SBE 5776 - Date : 2014 5 19

Float : 2901332 - Cycle : 232 - PI : M Ravichandran - Data mode : A - INST REF : APEX-SBE 5778 - Date : 2014 5 15

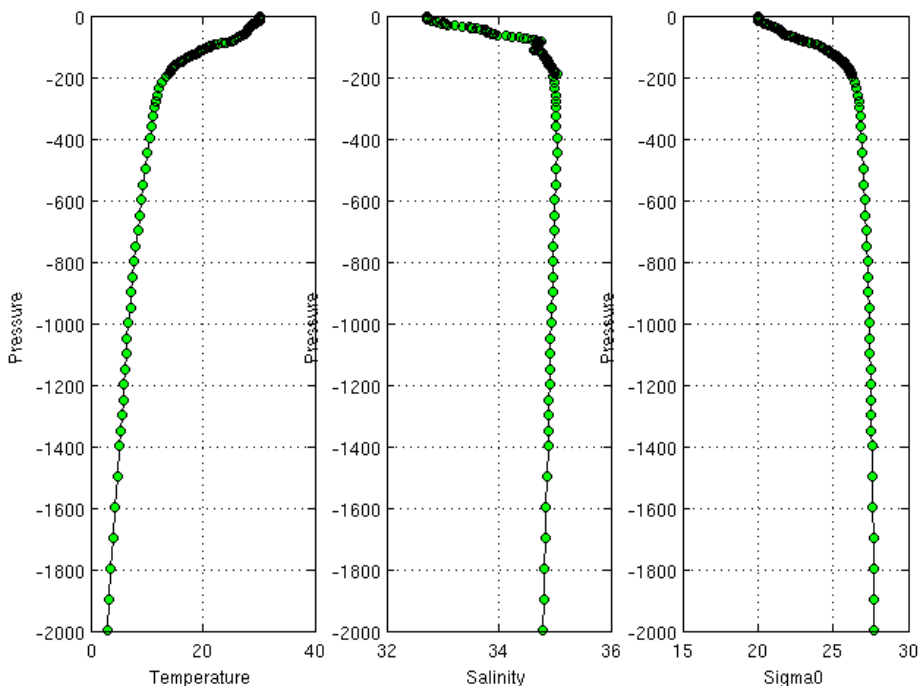
Float : 2901336 - Cycle : 234 - PI : M Ravichandran - Data mode : A - INST REF : APEX-SBE 5785 - Date : 2014 5 19



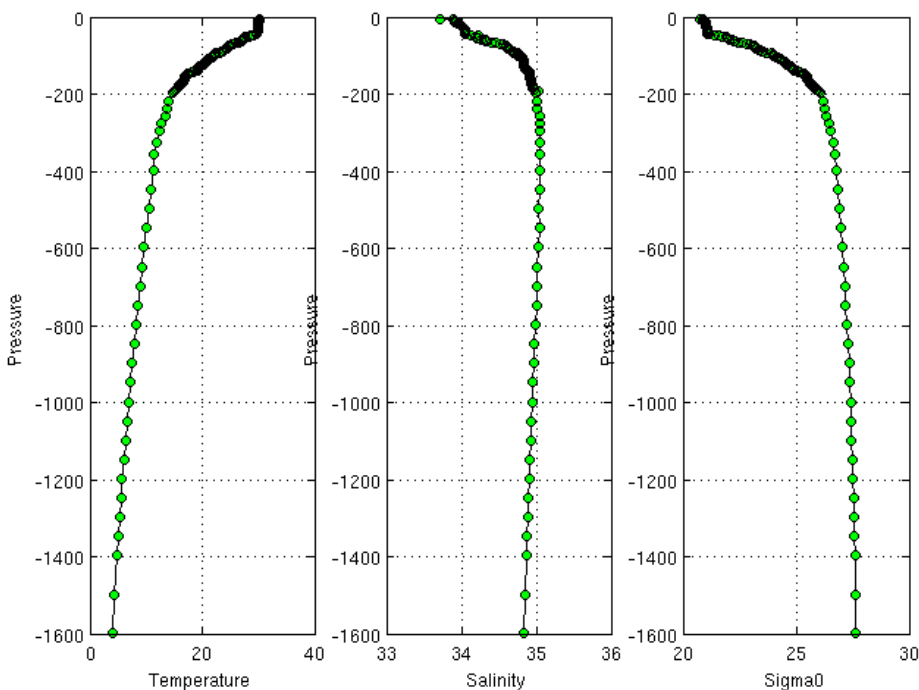
DAC\_CODE,PLATFORM\_CODE,CV\_NUMBER,DATE\_UPDATE,DIRECTION,WEB\_URL,PARAMETER,START\_IMMERSION,STOP\_IMMERSION,OLD\_QC,NEW\_QC  
 IN,2901332,232,15/05/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=33074141> ,PSAL,191.3,191.3,1,3  
 IN,2901331,224,19/05/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093087> ,PSAL,189.4,189.4,1,3  
 IN,2901327,225,19/05/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093635> ,PSAL,20,23.9,1,4  
 IN,2901327,225,19/05/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093635> ,TEMP,20,23.9,1,4  
 IN,2901336,234,19/05/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093637> ,PSAL,191.1,191.1,1,3  
 IN,2901331,224,19/05/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093087> ,PSAL,189.4,189.4,1,3  
 IN,2901327,225,19/05/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093635> ,PSAL,20,23.9,1,4  
 IN,2901327,225,19/05/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093635> ,TEMP,20,23.9,1,4  
 IN,2901336,234,19/05/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093637> ,PSAL,191.1,191.1,1,3

Example of corrections:

Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC IN- Float 2901331-224

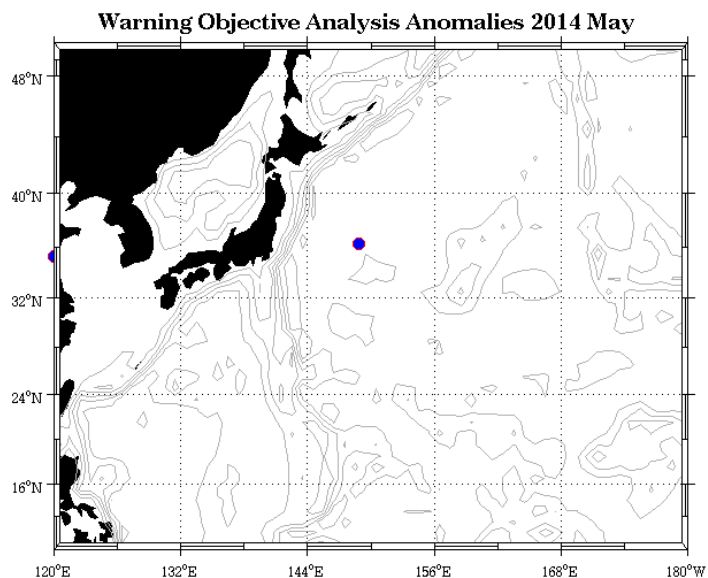


Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC IN- Float 2901336-234



## 6. DAC JMA/JAMSTEC

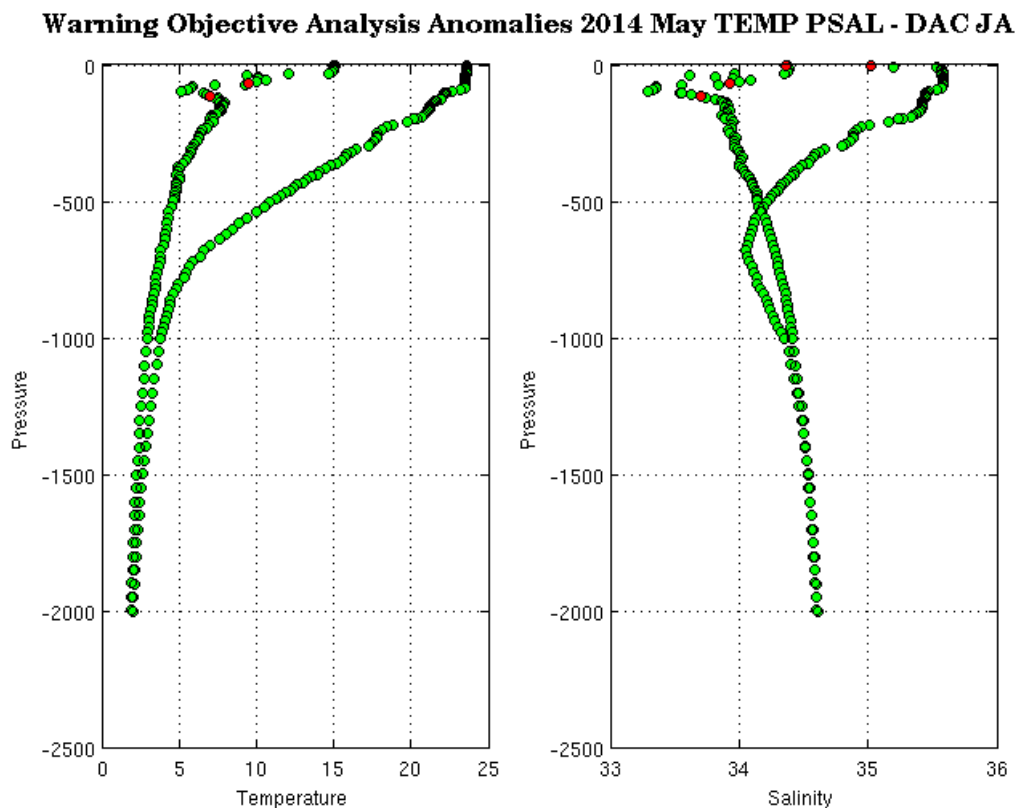
Profiles detected by the objective analysis: 2



**Status of corrections:** Not done, no feedback

Float : 2902464 - Cycle : 25 - PI : JAMSTEC - Data mode : R - INST REF : ARVOR-SBE OIN-13JAP-ARL-16 - Date : 2014 5 13

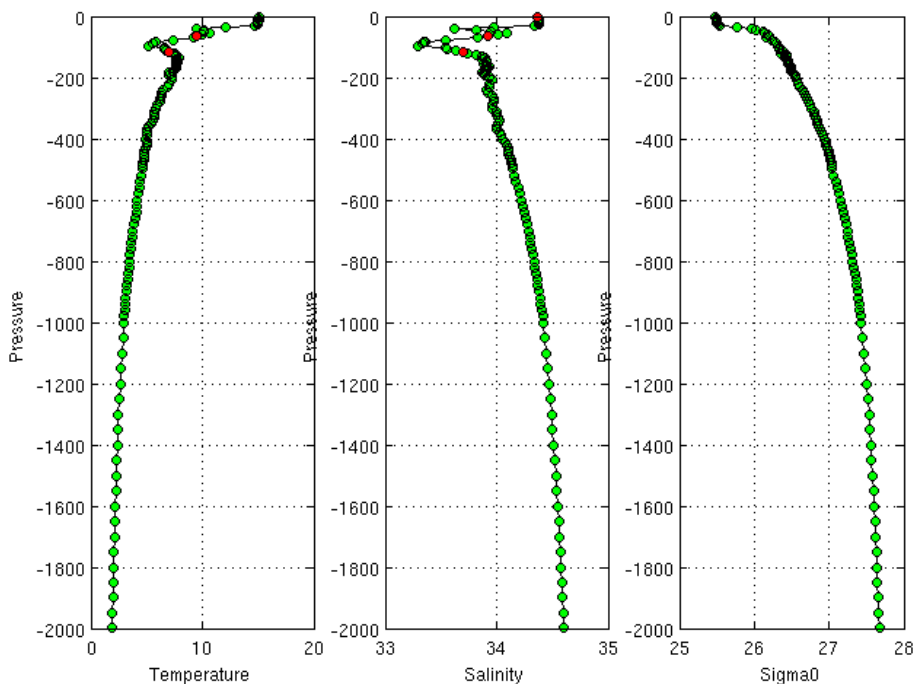
Float : 2902475 - Cycle : 12 - PI : JAMSTEC - Data mode : R - INST REF : ARVOR-SBE OIN-13JAP-ARL-43 - Date : 2014 5 13



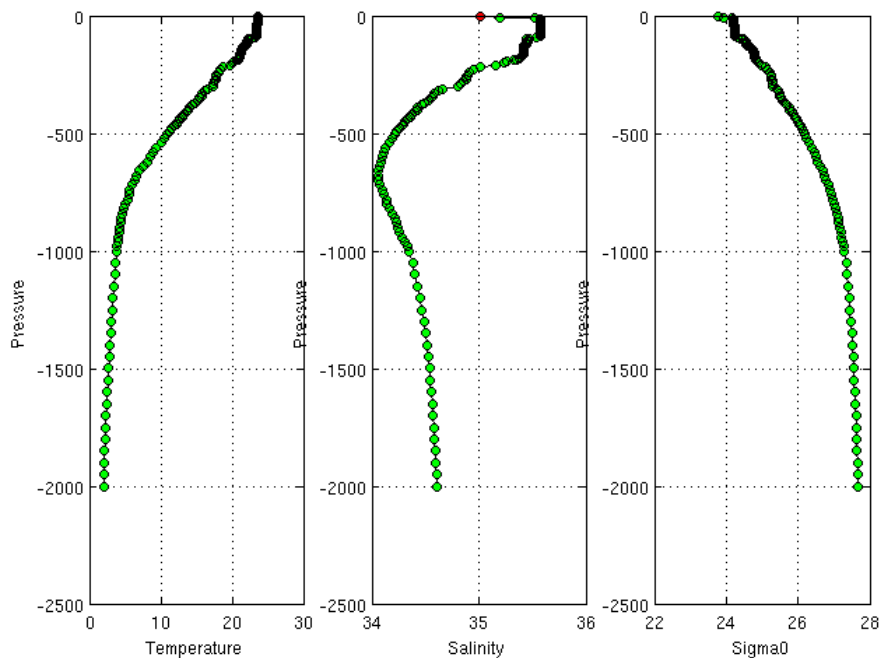
DAC\_CODE,PLATFORM\_CODE,CV\_NUMBER,DATE\_UPDATE,DIRECTION,WEB\_URL,PARAMETER,START\_IMMERSION,STOP\_IMMERSION,OLD\_QC,NEW\_QC  
JA,2902464,25,17/05/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=33071217> ,PSAL,6.2,6.2,1,3  
JA,2902475,12,17/05/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=33071689> ,PSAL,70.6,70.6,1,4

Example of anomalies:

Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC JA- Float 2902475-12

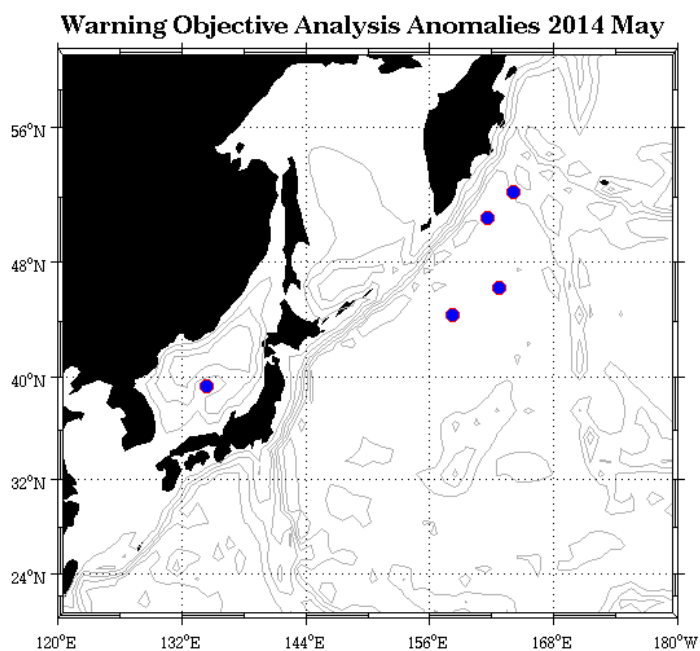


Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC JA- Float 2902464-25



## 7. DAC KMA

Profiles detected by the objective analysis: 5



**Status of corrections: NOT DONE, NO FEEDBACK**

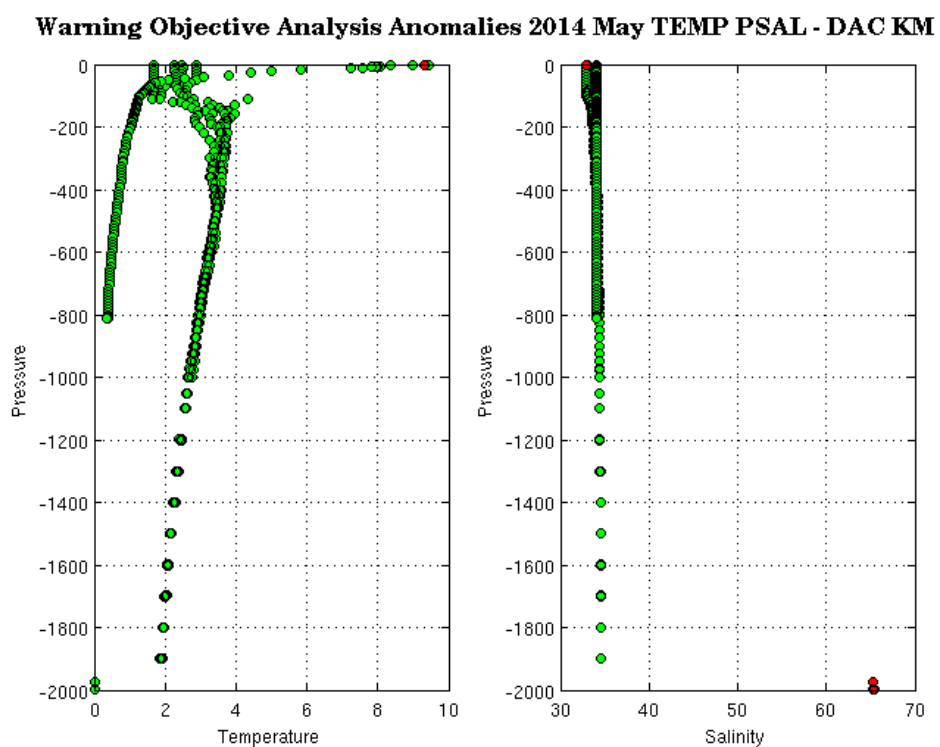
Float : 2901245 - Cycle : 93 - PI : Sang-Boom Ryoo - Data mode : R - INST REF : ARVOR Profiling Float - Date : 2014 4 23

Float : 2901712 - Cycle : 27 - PI : Young-Hwa Kim - Data mode : R - INST REF : APEX Profiling Float - Date : 2014 4 30

Float : 2901713 - Cycle : 24 - PI : Young-Hwa Kim - Data mode : R - INST REF : APEX Profiling Float - Date : 2014 3 31

Float : 2901714 - Cycle : 24 - PI : Young-Hwa Kim - Data mode : R - INST REF : APEX Profiling Float - Date : 2014 4 1

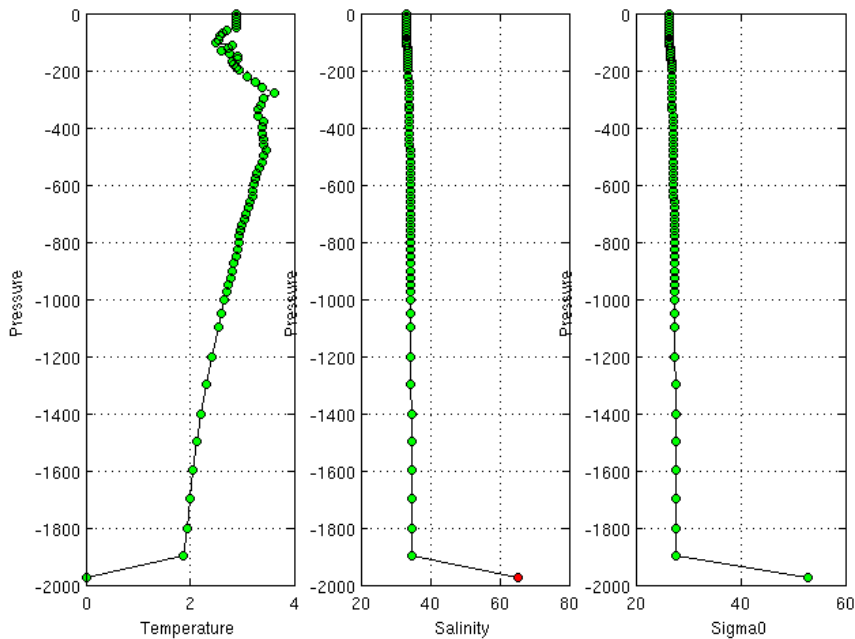
Float : 2901716 - Cycle : 27 - PI : Young-Hwa Kim - Data mode : R - INST REF : APEX Profiling Float - Date : 2014 5 1



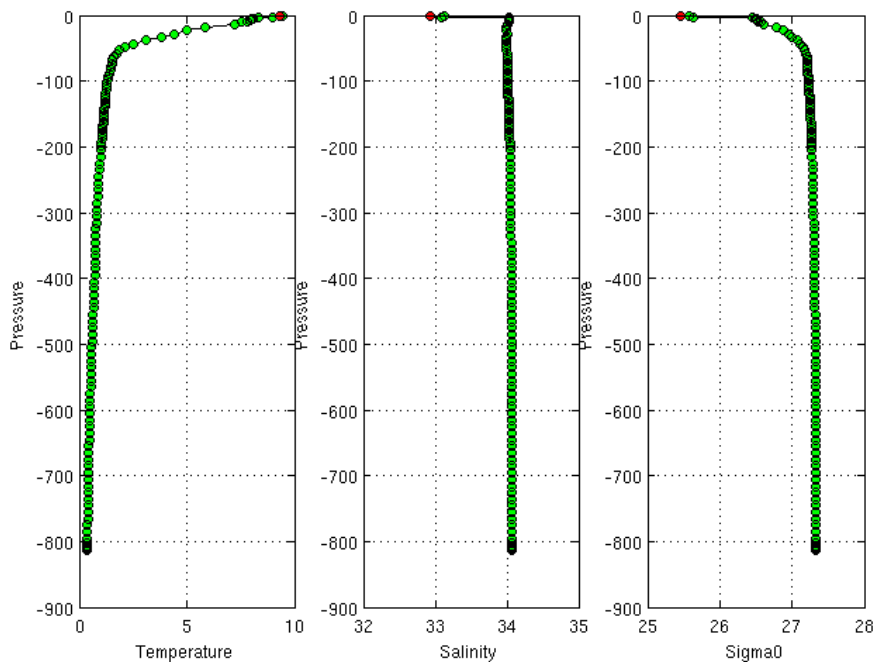
DAC\_CODE,PLATFORM\_CODE,CV\_NUMBER,DATE\_UPDATE,DIRECTION,WEB\_URL,PARAMETER,START\_IMMERSION,STOP\_IMMERSION,OLD\_QC,NEW\_QC  
 KM,2901713,24,01/04/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=32774627 ,TEMP,1997.5,1997.5,1,4  
 KM,2901714,24,02/04/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=32774628 ,TEMP,1997.5,1997.5,1,4  
 KM,2901712,27,01/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33018692 ,TEMP,1971.9,1971.9,1,4  
 KM,2901716,27,02/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33018695 ,TEMP,1997.5,1997.5,1,4  
 KM,2901245,93,24/04/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=32943000 ,PSAL,1,1,1,4  
 KM,2901245,93,24/04/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=32943000 ,PSAL,3,3,1,4

Example of anomalies:

Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC KM- Float 2901712-27

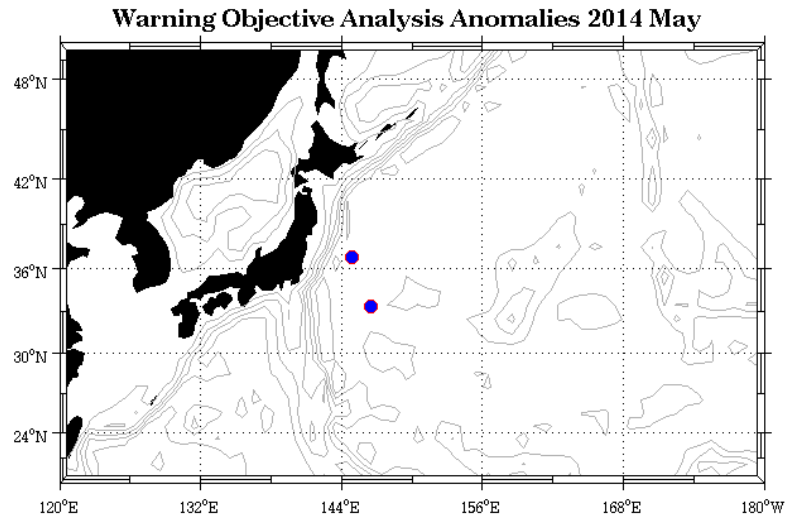


Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC KM- Float 2901245-93



## 8. DAC KORDI

Profiles detected by the objective analysis: 2

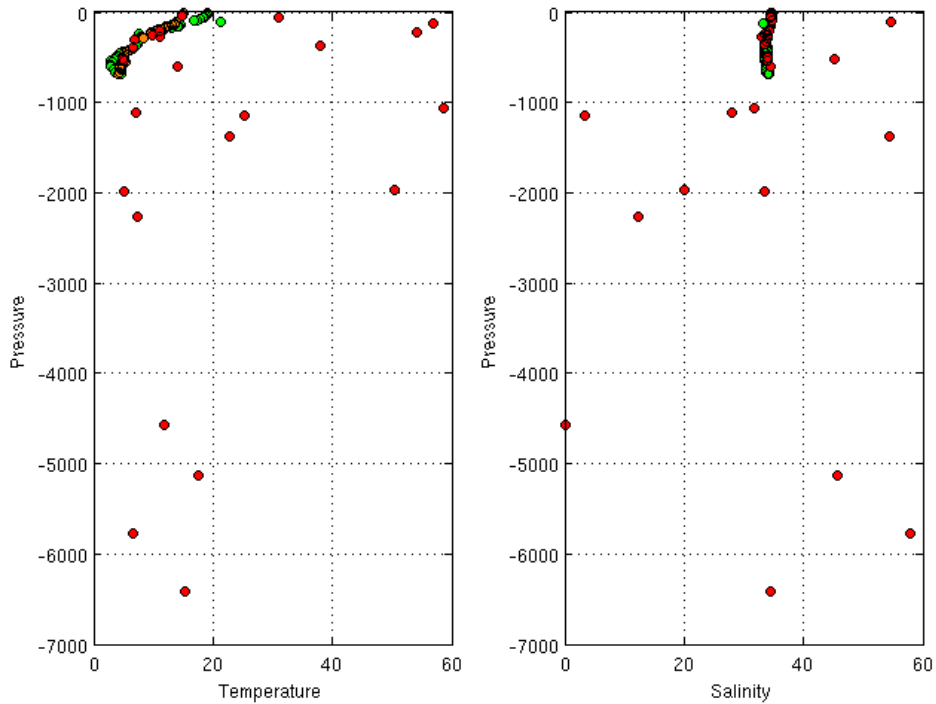


**Status of corrections: Not done, no feedback**

Float : 2900784 - Cycle : 286 - PI : Moon-Sik Suk - Data mode : A - INST REF : APEX-SBE 2487 - Date : 2014 4 14

Float : 2900784 - Cycle : 287 - PI : Moon-Sik Suk - Data mode : A - INST REF : APEX-SBE 2487 - Date : 2014 4 24

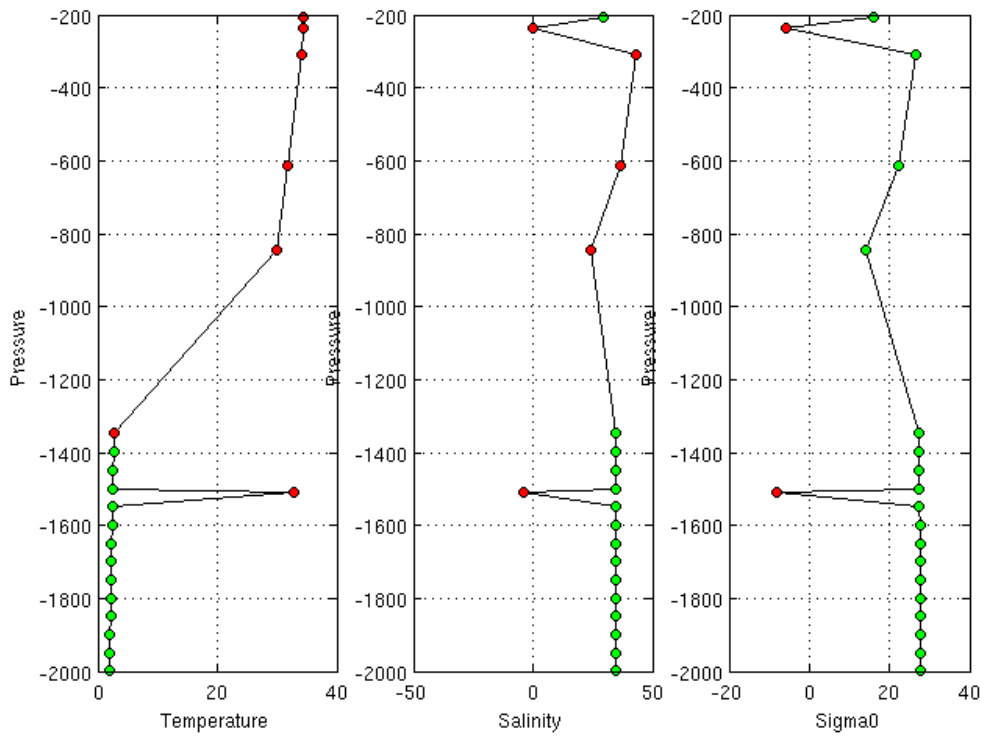
**Warning Objective Analysis Anomalies 2014 May TEMP PSAL - DAC KO**



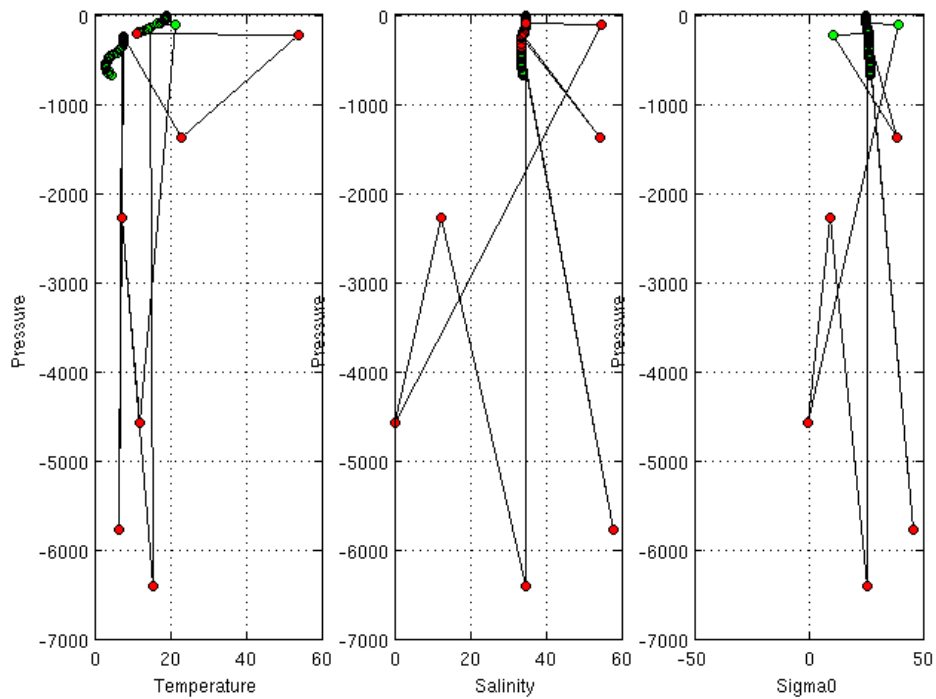
DAC\_CODE,PLATFORM\_CODE,CV\_NUMBER,DATE\_UPDATE,DIRECTION,WEB\_URL,PARAMETER,START\_IMMERSION,STOP\_IMMERSION,OLD\_QC,NEW\_QC  
KO,2900784,286,18/04/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=32847451>,TEMP,104,104,1,4  
KO,2900784,287,26/04/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=32922815>,PSAL,130.8,130.8,1,4  
KO,2900784,287,28/04/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=32922815>,PSAL,130.8,130.8,1,4  
KO,2900784,287,28/04/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=32922815>,PSAL,194.2,218.8,1,4  
KO,2900784,287,28/04/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=32922815>,PSAL,130.8,130.8,1,4  
KO,2900784,287,28/04/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=32922815>,PSAL,194.2,218.8,1,4

Example of anomalies:

Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC ME- Float 4901136-142



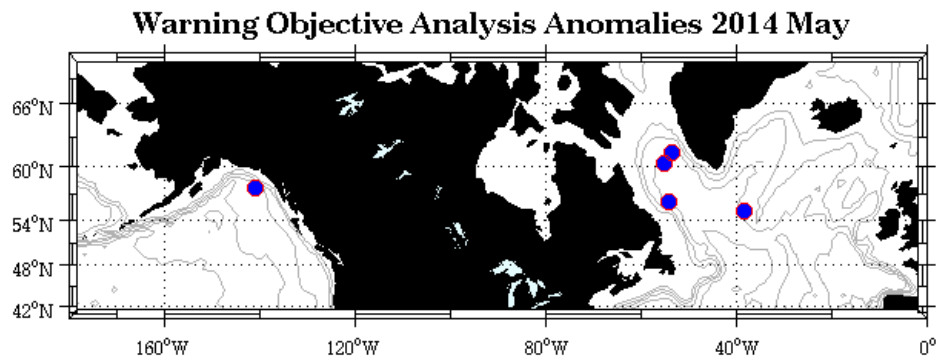
Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC KO- Float 2900784-286





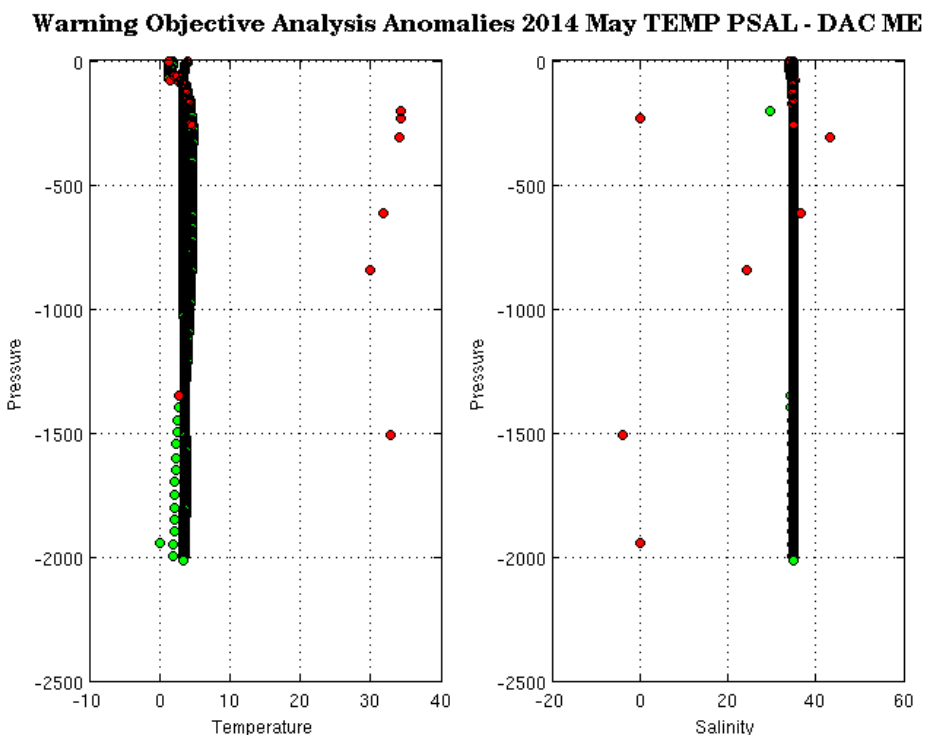
## 9. DAC MEDS

Profiles detected by the objective analysis: 5



**Status of corrections: NOT DONE, NO FEEDBACK**

Float : 4901136 - Cycle : 142 - PI : Denis Gilbert - Data mode : A - INST REF : - Date : 2014 5 19  
Float : 4901162 - Cycle : 110 - PI : Denis Gilbert - Data mode : R - INST REF : - Date : 2014 5 10  
Float : 4901200 - Cycle : 68 - PI : Denis Gilbert - Data mode : A - INST REF : - Date : 2014 4 29  
Float : 4901200 - Cycle : 70 - PI : Denis Gilbert - Data mode : A - INST REF : - Date : 2014 5 19  
Float : 4901751 - Cycle : 37 - PI : Denis Gilbert - Data mode : A - INST REF : - Date : 2014 5 19

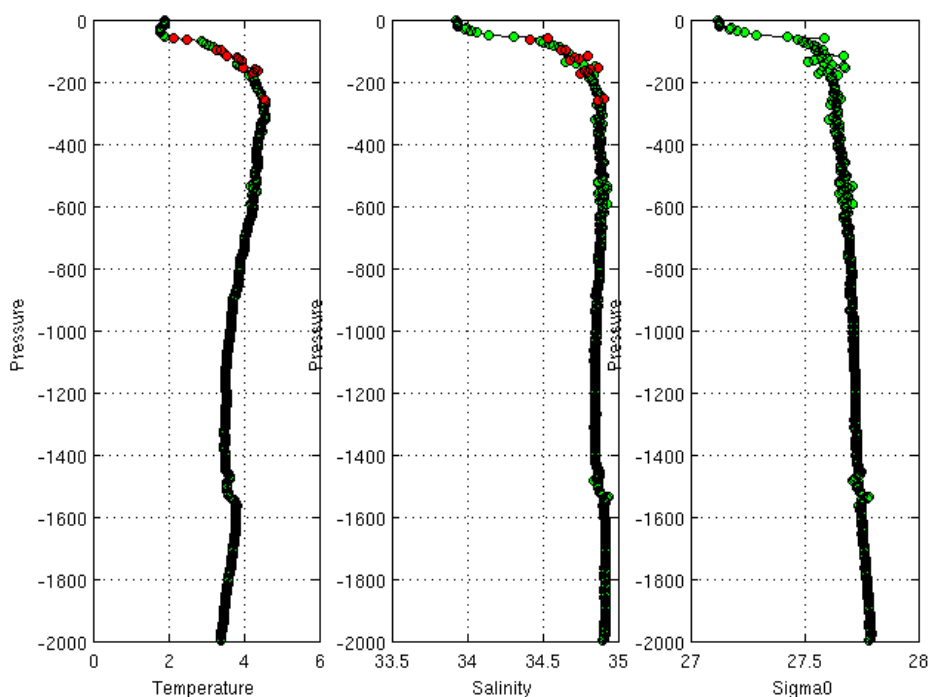


DAC_CODE	PLATFORM_CODE	CV_NUMBER	DATE_UPDATE	DIRECTION	WEB_URL	PARAMETER	START_IMMERSION	STOP_IMMERSION	OLD_QC	NEW_QC
ME	4901200	68	29/04/2014 00:00:00	A	<a href="http://www.ifremer.fr/WC2argoFloats/station?&amp;stationId=33019835">http://www.ifremer.fr/WC2argoFloats/station?&amp;stationId=33019835</a>	PSAL	70.2	74.5	1,4	
ME	4901162	110	12/05/2014 00:00:00	A	<a href="http://www.ifremer.fr/WC2argoFloats/station?&amp;stationId=33052647">http://www.ifremer.fr/WC2argoFloats/station?&amp;stationId=33052647</a>	TEMP	1946.2	1946.2	1,4	
ME	4901200	70	19/05/2014 00:00:00	A	<a href="http://www.ifremer.fr/WC2argoFloats/station?&amp;stationId=33093823">http://www.ifremer.fr/WC2argoFloats/station?&amp;stationId=33093823</a>	TEMP	3.54	3.1	1,4	
ME	4901200	70	19/05/2014 00:00:00	A	<a href="http://www.ifremer.fr/WC2argoFloats/station?&amp;stationId=33093823">http://www.ifremer.fr/WC2argoFloats/station?&amp;stationId=33093823</a>	TEMP	69.7	89.3	1,4	
ME	4901200	70	19/05/2014 00:00:00	A	<a href="http://www.ifremer.fr/WC2argoFloats/station?&amp;stationId=33093823">http://www.ifremer.fr/WC2argoFloats/station?&amp;stationId=33093823</a>	TEMP	104.4	109.7	1,4	
ME	4901200	70	19/05/2014 00:00:00	A	<a href="http://www.ifremer.fr/WC2argoFloats/station?&amp;stationId=33093823">http://www.ifremer.fr/WC2argoFloats/station?&amp;stationId=33093823</a>	TEMP	134.5	150.9	1,4	
ME	4901200	70	19/05/2014 00:00:00	A	<a href="http://www.ifremer.fr/WC2argoFloats/station?&amp;stationId=33093823">http://www.ifremer.fr/WC2argoFloats/station?&amp;stationId=33093823</a>	TEMP	179.7	249.3	1,4	

ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,TEMP,265.4,1998.8,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,PSAL,,3,54.3,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,PSAL,69.7,89.3,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,PSAL,104.4,109.7,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,PSAL,134.5,150.9,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,PSAL,179.7,249.3,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,PSAL,265.4,1998.8,1,4  
 ME,4901136,142,20/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33105803 ,PSAL,204.9,204.9,1,4  
 ME,4901136,142,20/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33105803 ,PSAL\_ADJUSTED,204.9,204.9,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,TEMP,,3,54.3,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,TEMP,69.7,89.3,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,TEMP,104.4,109.7,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,TEMP,134.5,150.9,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,TEMP,179.7,249.3,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,TEMP,265.4,1998.8,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,PSAL,,3,54.3,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,PSAL,69.7,89.3,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,PSAL,104.4,109.7,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,PSAL,134.5,150.9,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,PSAL,179.7,249.3,1,4  
 ME,4901200,70,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093823 ,PSAL,265.4,1998.8,1,4  
 ME,4901136,142,20/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33105803 ,PSAL,204.9,204.9,1,4  
 ME,4901136,142,20/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33105803 ,PSAL\_ADJUSTED,204.9,204.9,1,4  
 ME,4901751,37,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093626 ,PSAL,1245,1365,1,3  
 ME,4901751,37,19/05/2014 00:00:00,A,http://www.ifremer.fr/WC2argoFloats/station?&stationId=33093626 ,TEMP,1245,1365,1,3

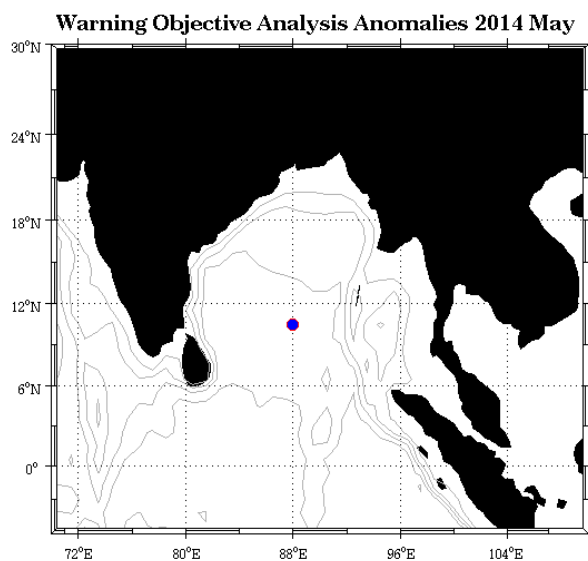
Example of anomalies:

Warning Objective Analysis Anomalies 2014 May TEMP PSAL : DAC ME- Float 4901200-70



## 10. DAC NMDIS

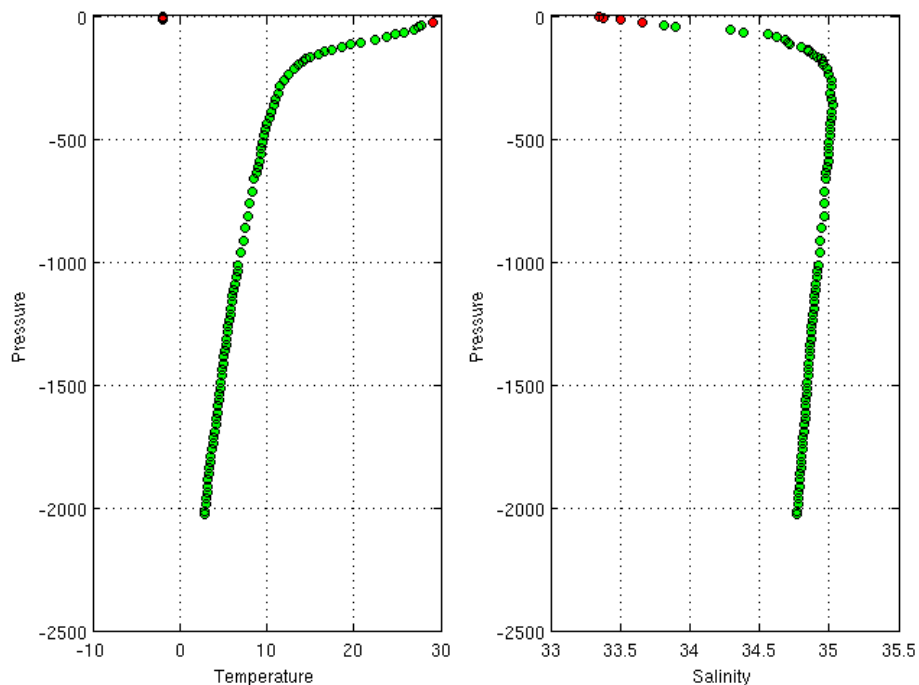
Profiles detected by the objective analysis: 1



**Status of corrections: Done**

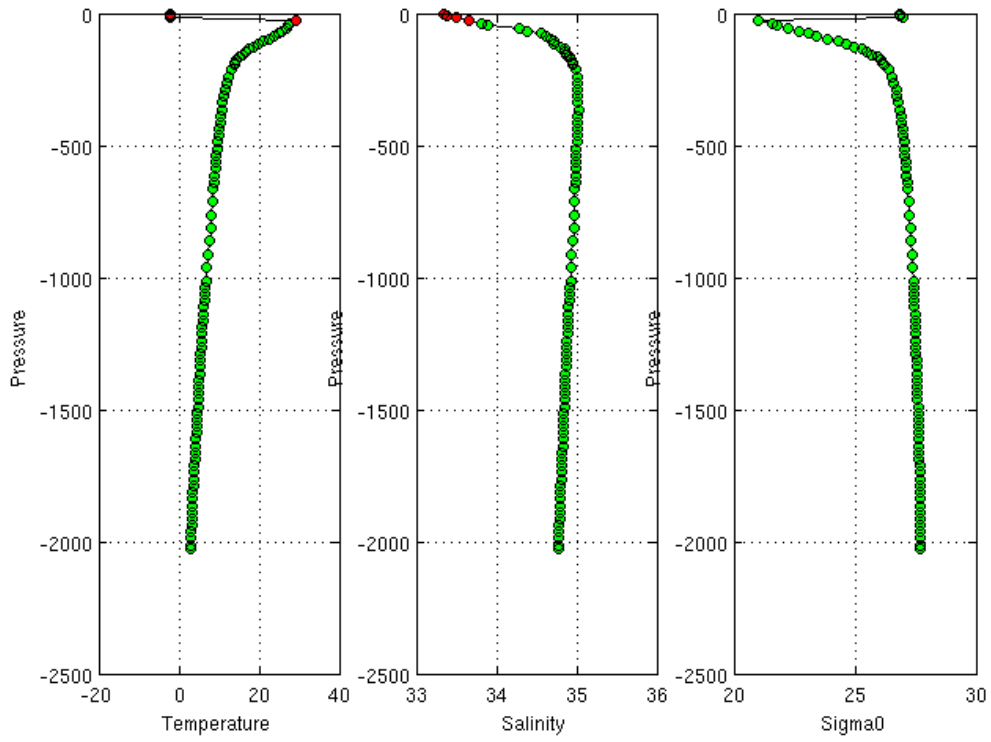
Float : 2901624 - Cycle : 147 - PI : Fengying Ji - Data mode : R - INST REF : - Date : 2014 5 7

Warning Objective Analysis Anomalies 2014 May TEMP PSAL - DAC NM



DAC\_CODE,PLATFORM\_CODE,CV\_NUMBER,DATE\_UPDATE,DIRECTION,WEB\_URL,PARAMETER,START\_IMMERSION,STOP\_IMMERSION,OLD\_QC,NEW\_QC  
NM,2901624,147,14/05/2014 00:00:00,A,<http://www.ifremer.fr/WC2argoFloats/station?&stationId=33069637>,TEMP,6,1,1,4

Example of anomalies:



## 11. File anomalies

### 11.1. AOML

1900245 : tech.nc and traj.nc are missing.

### 11.2. KORDI

2900204 : Some positions are with values -999 instead of the FillValue "99999".

Ex. Cycles 92-179-223-286

## 12. Delayed Mode anomalies

Please also, have a look on the lists provided by John Gilson

### 12.1. BODC – problem n°1

**ADJUSTED pressure exists but not the others parameters (still in progress)**

*Ifremer.* : The old files (before 2013) are not updated.

*Justin B.* : 09/18/2013 That will happen either when we resubmit data when we do new formats work or when the floats are processed in delayed mode (both are on-going).

R1900677\_215, R1900677\_224, R1900679\_207, R1900679\_206, R6900656\_094,...

And all files in real time with adjusted parameters

**netcdf R1900677\_215 {**

DATE\_CREATION = "20120110210843" ;

DATE\_UPDATE = "20120110210843" ;

DATA\_MODE = "A" ;

PRES\_ADJUSTED = 4.5, 9.2, 14.3, 19.0, 23.9, 29.1, 33.9, 39.2, 48.9, 59.4, 69.3, 79.4, 89.2, 98.8, 108.8, 119.1, 128.7, 138.8, 149.1, 159.0, 169.2, 178.5, 188.6, 198.8, 219.3, 239.3, 259.1, 279.3, 299.2, 328.8, 358.7, 399.0, 449.3, 498.8, 549.1, 598.8, 649.1, 699.3, 749.1, 798.8, 849.1, 899.2, 948.4, 998.8, 1004.1 ;

PSAL\_ADJUSTED = \_\_\_\_\_ ;

TEMP\_ADJUSTED = \_\_\_\_\_ ;

}

### BODC – problem n°2

QC 1 reported on bad PRES\_ADJUSTED (negative values) – must be updated to 4

**netcdf D6900198\_003 {**

PRES =

-99.0, -99.0, -99.0, -99.0, 2.0, 25.0, ,

PRES\_QC =

"444114....."

PRES\_ADJUSTED =

\_,\_,\_ -99.0, 2.0,

PRES\_ADJUSTED\_QC =

"444114....."

## 12.2. CSIO

Adjusted value in real time files ok but <param>\_adjusted\_ERROR still empty for PRES, TEMP and PSAL

netcdf R5901605\_246 {

DATE\_CREATION = "20130422191738";

DATE\_UPDATE = "20140211124428";

DATA\_MODE = "A";

PSAL\_ADJUSTED =

34.765, 34.761, 34.858, 35.051, 35.070, 35.079, 35.081, 35.078, 35.071, 35.071, 35.062, 35.040, 35.009, 34.983, 34.930, 34.904, 34.885, 34.858, 34.842, 34.823, 34.800, 34.782, 34.768, 34.759, 34.746, 34.735, 34.723, 34.716, 34.700, 34.683, 34.654, 34.628, 34.603, 34.577, 34.559, 34.539, 34.501, 34.433, 34.369, 34.313, 34.268, 34.216, 34.187, 34.164, 34.144, 34.139, 34.146, 34.162, 34.205, 34.242, 34.315, 34.356, 34.408, 34.428, 34.464, 34.480, 34.492, 34.504, 34.524, 34.543, 34.555, 34.566, 34.574, 34.587, 34.599, 34.616, 34.633, 34.644, 34.653, 34.660;

PSAL\_ADJUSTED\_ERROR =

\_\_\_\_\_  
\_\_\_\_\_;

PRES\_ADJUSTED\_ERROR =

\_\_\_\_\_

TEMP\_ADJUSTED\_ERROR =

\_\_\_\_\_

## 12.3. INCOIS

adjusted parameters with DATA\_MODE = 'A' and <PARAM>\_ADJUSTED\_ERROR empty

netcdf R4900670\_051 {

DATE\_CREATION = "20070208230218";

DATE\_UPDATE = "20091029162137";

DATA\_MODE = "A";

PRES\_ADJUSTED\_ERROR =

\_\_\_\_\_;

TEMP\_ADJUSTED\_ERROR =

\_\_\_\_\_;

PSAL\_ADJUSTED\_ERROR =

\_\_\_\_\_;

PSAL\_ADJUSTED =

34.354, 34.353, 34.360, 34.360, 34.359, 34.356, 34.121, 34.144, 34.333, 34.411, 34.700, 34.644, .....

}

## 12.4. KMA

ADJUSTED pressure exists but not the others parameters

R2900171\_067, R2900171\_048, R7900236\_064, R7900249\_052,... and all adjusted real time files

```
netcdf R2900171_067 {
DATE_CREATION = "20030610085419" ;
DATE_UPDATE = "20100810073304" ;
DATA_MODE = "R" ;
PRES_ADJUSTED = 6.5, 16.4, 26.5, 36.5, 46.0, 56.3, 66.0, 76.0, 86.3, 96.4, 106.6, 116.2, 126.2, 136.1, 146.6, 156.4, 166.1, 176.3, 186.4,
196.2, 206.0, 215.9, 226.2, 236.0, 246.0, 256.5, 266.4, 275.9, 286.2, 296.2, 306.4, 316.2, 326.2, 336.3, 345.9, 356.1, 375.8, 395.8,
446.1, 496.0, 546.4, 596.2, 646.3, 695.6, 745.7 ;
TEMP_ADJUSTED = _____;
PSAL_ADJUSTED = _____;
}
No Error on PRES_ADJUSTED

PRES_ADJUSTED_ERROR =
_____;
```

No information about calibration done on PRES

```
SCIENTIFIC_CALIB_EQUATION =
"                                                                                                                                           ",
```

## 12.5. NMDIS

DM files - data\_state\_indicator="2C" but data\_mode="R" and R\*.nc

For floats : 2901615 – 2901631 - 2901632

**2901632** : all cycles with data\_state\_indicator="2C" – DM files but still R\*\*\*.nc and data\_mode='R'

```
netcdf R2901632_056 {
DATA_STATE_INDICATOR = "2C " ;
DATA_MODE = "R" ;
PRES_ADJUSTED =
    0.0,  5.0,  16.0,  26.0,  36.0,  46.0,  56.0,
PSAL_ADJUSTED =
    34.687,  34.694,  34.684,  34.670,  34.664,  34.657,  34.658,
TEMP_ADJUSTED =
    18.364,  18.379,  18.277,  18.115,  18.069,  18.007,  17.965,
SCIENTIFIC_CALIB_COMMENT =
    "Calibration error is manufacturers specified PRES accuracy at time of lab calibration",
    "Calibration error is manufacturers specified TEMP accuracy at time of lab calibration",
    "No salinity adjustment needed according to OW1.1. Ref. Data are CTD_for_DMQC_2013V01+ARGO_for_DMQC_2013V01";
```

**Changes to do :**

DATA\_MODE = "R" => DATA\_MODE = "D" ;

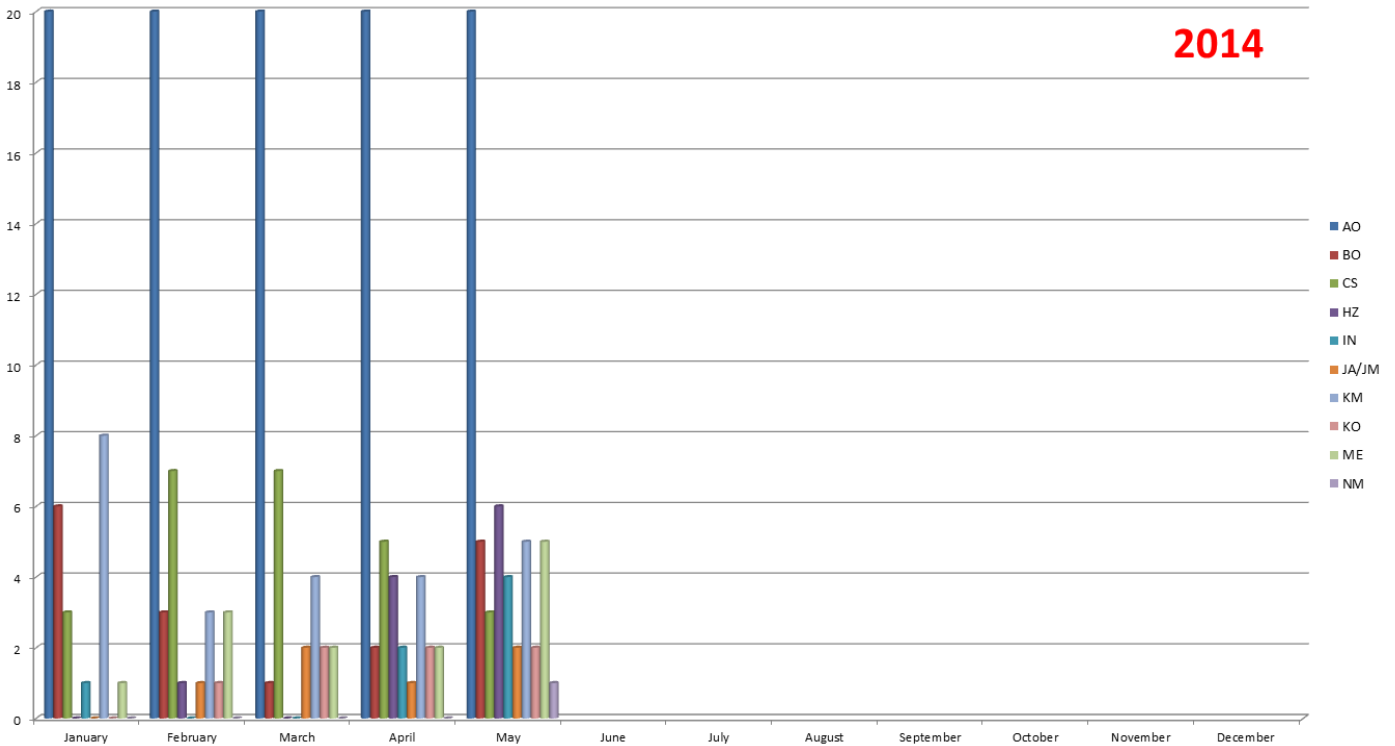
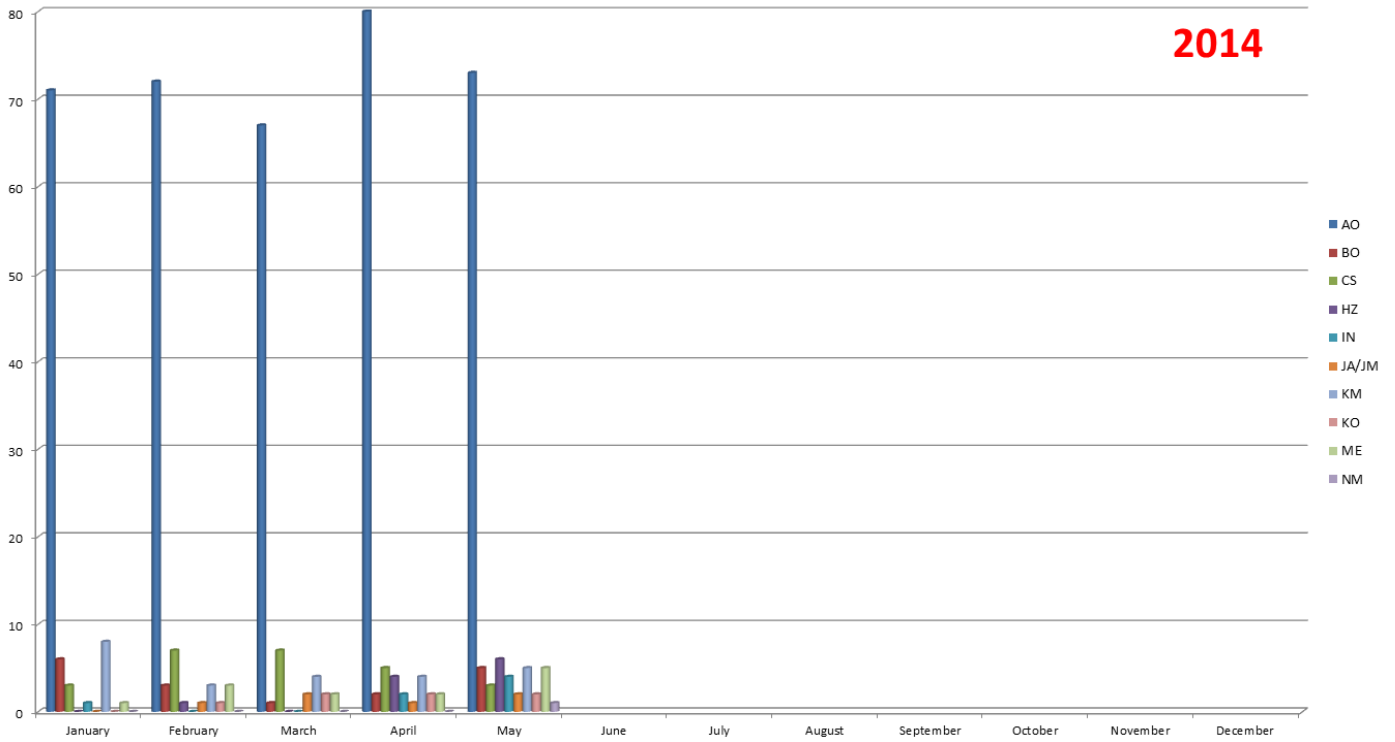
Name of the files R2901632\_<cycle\_number>.nc => D2901632\_<cycle\_number>.nc



# 13. Statistics

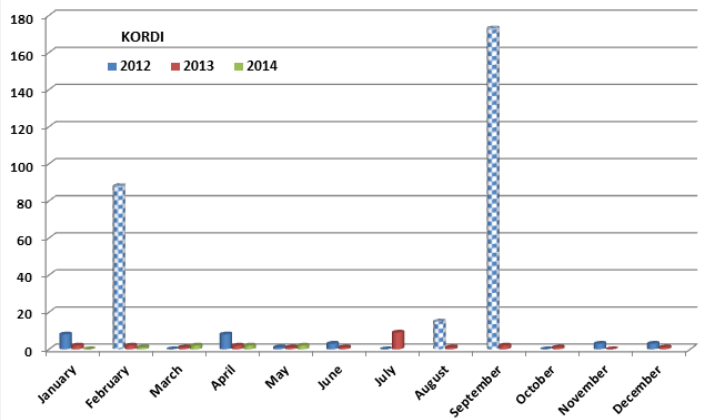
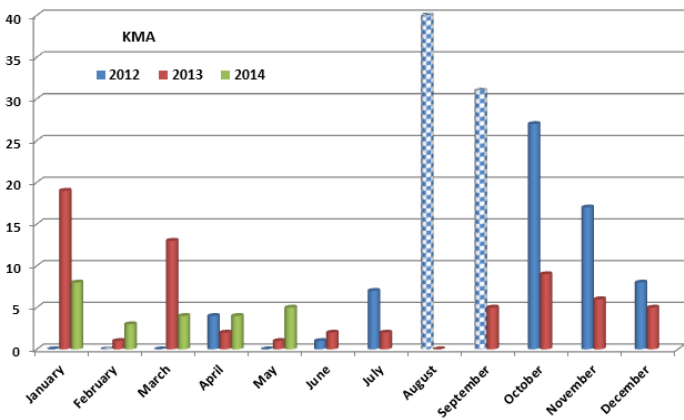
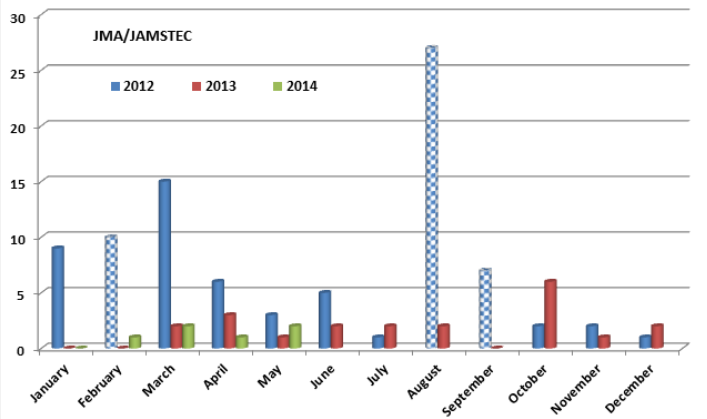
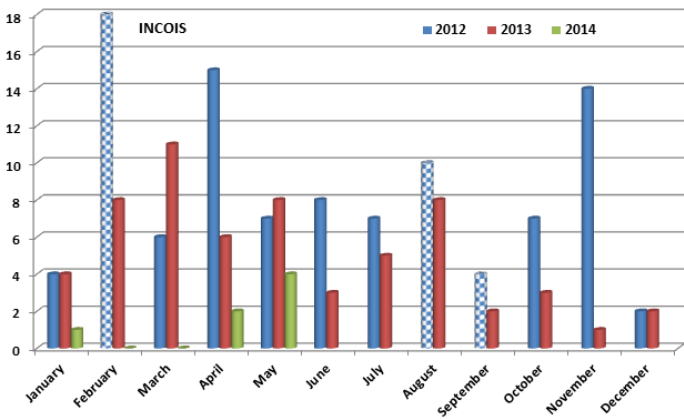
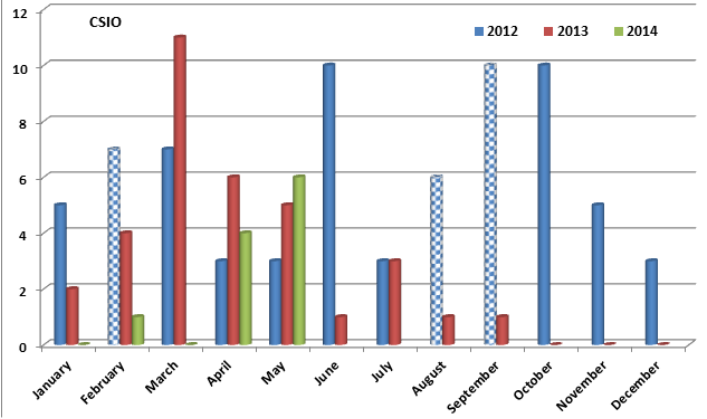
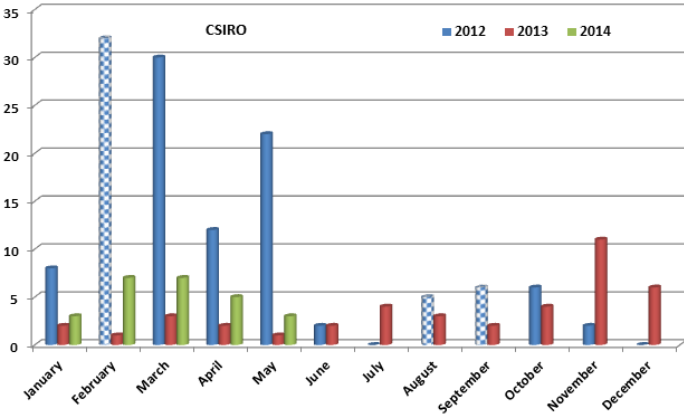
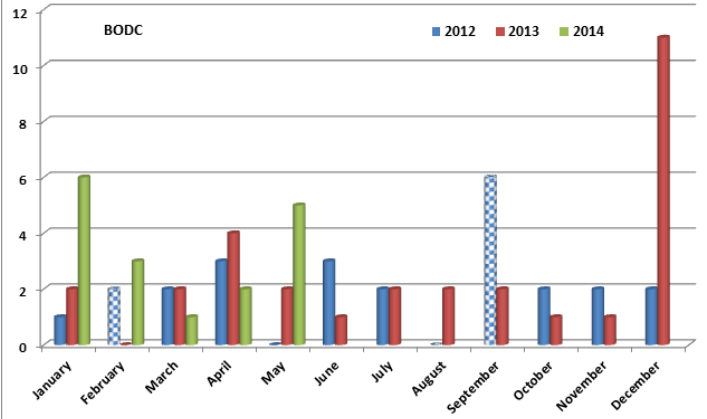
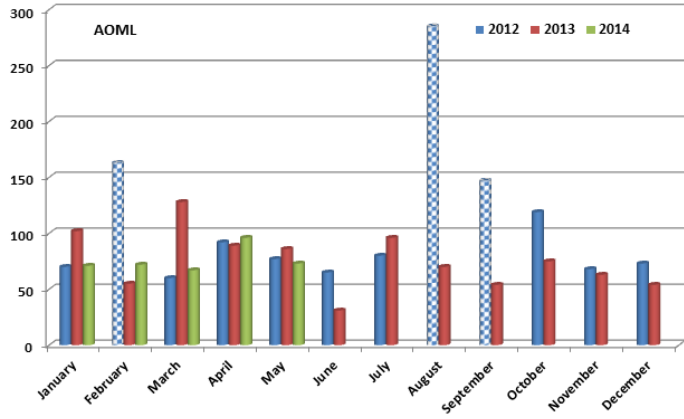
Plots showing evolution of number of anomalies by DAC.

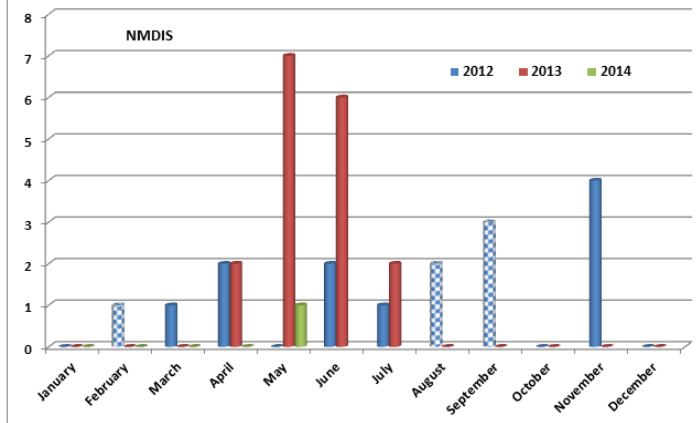
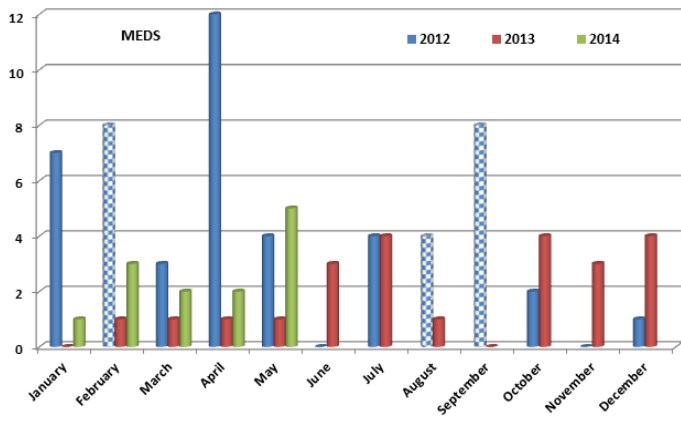
## 13.1. Year



Year 2014 with a zoom on range 0-20 for number of anomalies:

## 13.2. DAC





### 13.3. Anomalies by year, by month

