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Step 10. Description:

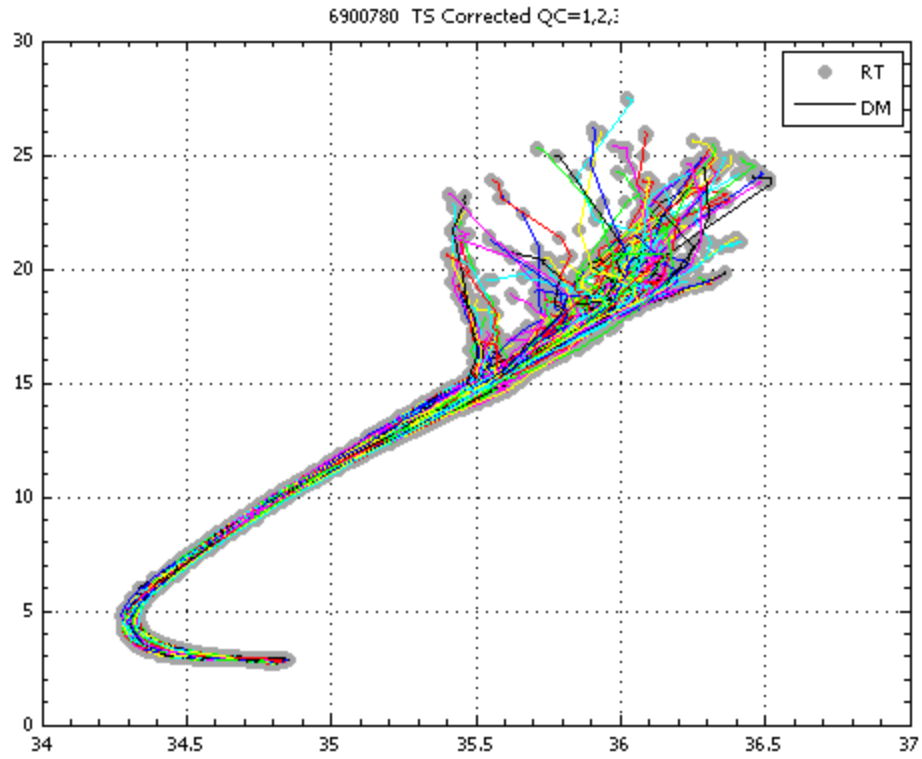
```
This file double checks all the previous steps making some tests. Plots
are generated. SCIENTIFIC and HISTORY fields are double checked. Profile
quality assignment is calculated. QC FLAG values are double checked. RT
profile vs DM profile sizes are double checked.
<www.oceanografia.argo.es>

Pedro Velez & Alberto Gonzalez (2016)

Limpia

floats=[6900780];

pathDM=fullfile(GlobalSU.ArgoDMQC,'Data',filesep);
inpathDM=fullfile(GlobalSU.ArgoDMQC,'Data','float_sourceQC2',filesep);

for iboya=1:length(floats)

    %Leemos los datos medidos por la boya
    %Profs=ReadArgoProfiles(strcat(inpathAD,filesep,num2str(floats(iboya)),filesep
    DATA=load(strcat(inpathDM,sprintf('%6d',floats(iboya))));
    Profs=DATA.Profs;
```

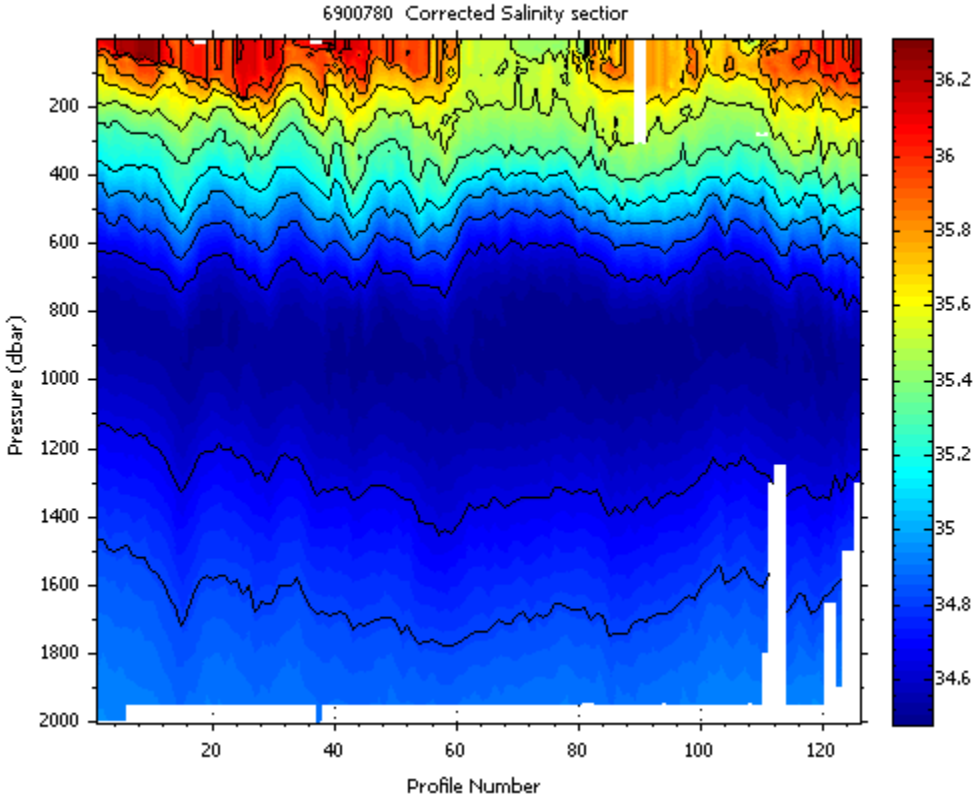
Figuras

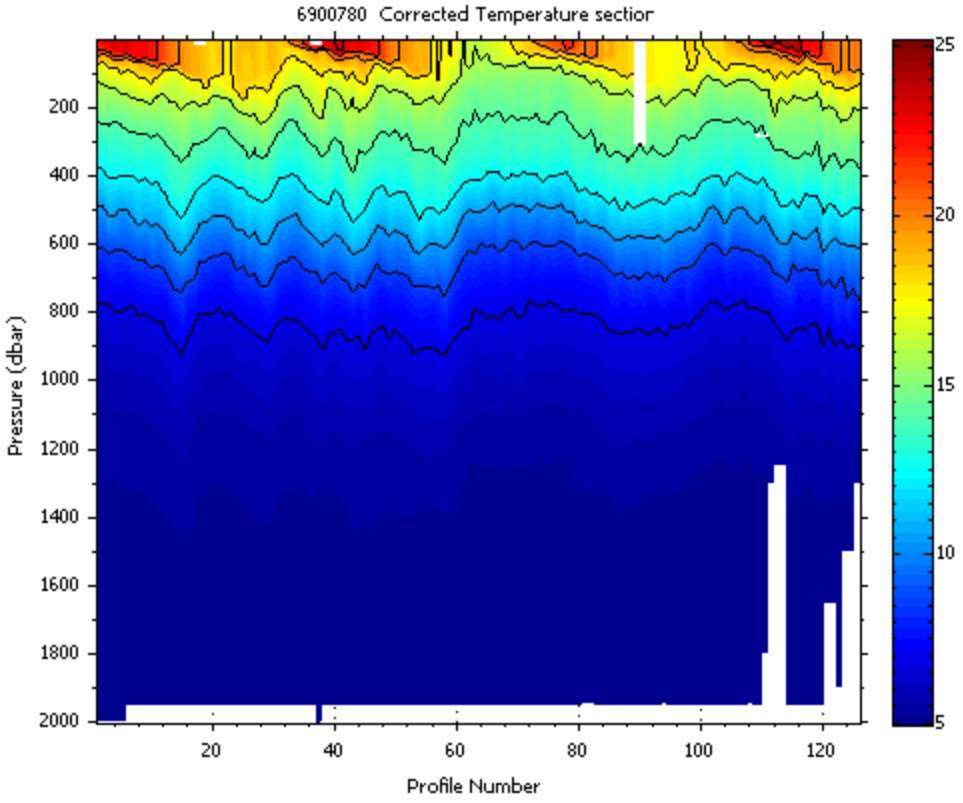
```
    %Represento TS
    figure
    for i2=1:size(Profs,2)
        h1(i2)=plot(Profs(i2).psal,Profs(i2).temp,'o','Markersize',6,'MarkerFaceCo
    end
    for i3=1:size(Profs,2)
        %prueba=Profs(i3).temp_adjusted';
        %h2(i3)=plot(Profs(i3).psal_adjusted(1:size(prueba)),Profs(i3).temp_adjust
        h2(i3)=plot(Profs(i3).psal_adjusted,Profs(i3).temp_adjusted,'b.-','Color',
    end

    legend([h1(1) h2(1)],'RT','DM')
    set(gca,'Xgrid','on','XMinorTick','on','Ygrid','on','YMinorTick','on')
    title(sprintf('%s TS Corrected QC=1,2,3',Profs(1).platform_number'))
    %Represento secciones
    pres_ad=[];
    tems_ad=[];
    sals_ad=[];
```

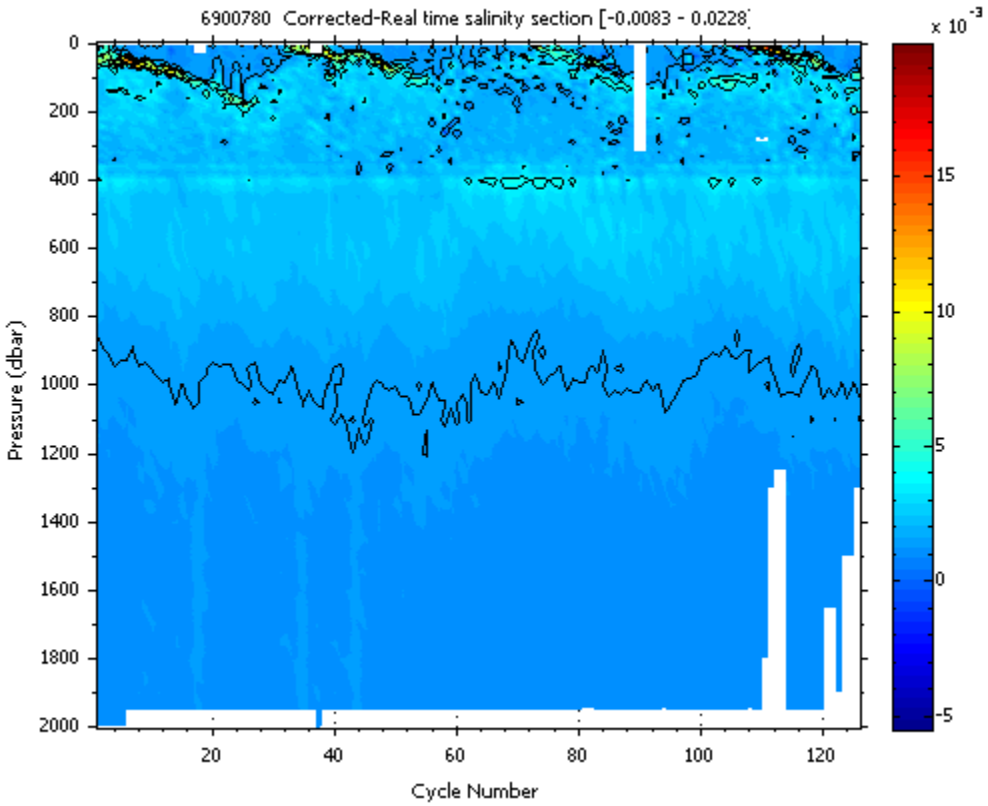
```
pres=[];
tems=[];
sals=[];

for icycle=1:size(Profs,2)
    pres_ad=merge(pres_ad,double(Profs(icycle).pres_adjusted'));
    tems_ad=merge(tems_ad,double(Profs(icycle).temp_adjusted'));
    sals_ad=merge(sals_ad,double(Profs(icycle).psal_adjusted'));
    pres=merge(pres,double(Profs(icycle).pres'));
    tems=merge(tems,double(Profs(icycle).temp'));
    sals=merge(sals,double(Profs(icycle).psal'));
end

%Salinity
figure
pcolor(ones(size(pres_ad,1),1)*[1:1:size(Profs,2)],pres_ad,sals_ad);grid on;ho
shading interp;colorbar
contour(ones(size(pres_ad,1),1)*[1:1:size(Profs,2)],pres_ad,sals_ad,10,'k');
colorbar
title(sprintf('%s Corrected Salinity section',Profs(1).platform_number'))
set(gca,'Xgrid','on','XMinorTick','on','Ygrid','off','YMinorTick','on','tickdi
ylabel('Pressure (dbar)')
xlabel('Profile Number')

%Temperature
figure
pcolor(ones(size(pres_ad,1),1)*[1:1:size(Profs,2)],pres_ad,tems_ad);grid on;ho
shading interp;colorbar
contour(ones(size(pres_ad,1),1)*[1:1:size(Profs,2)],pres_ad,tems_ad,10,'k');
colorbar
title(sprintf('%s Corrected Temperature section',Profs(1).platform_number'))
set(gca,'Xgrid','on','XMinorTick','on','Ygrid','off','YMinorTick','on','tickdi
ylabel('Pressure (dbar)')
xlabel('Profile Number')


tems_adi=pres.*NaN;
sals_adi=pres.*NaN;
for icycle=1:size(Profs,2)
    ppre=pres(:,icycle);
    ppre_ad=pres_ad(:,icycle);
    ptem_ad=tems_ad(:,icycle);
    psal_ad=sals_ad(:,icycle);

    %Interpolo los adjustes en las presiones originales
    ind=find(isnan(psal_ad)==0 & isnan(ppre_ad)==0);
    psal2_ad=psal_ad(ind);
    ppre2_ad=ppre_ad(ind);
    if length(psal2_ad)>2
        [ppre2_ad,I,J] = unique(ppre2_ad);
        psal2_ad=psal2_ad(I);
        sals_adi(:,icycle)= interp1(ppre2_ad,psal2_ad,ppre);
    end
    %Interpolo los adjustes en las presiones originales
```

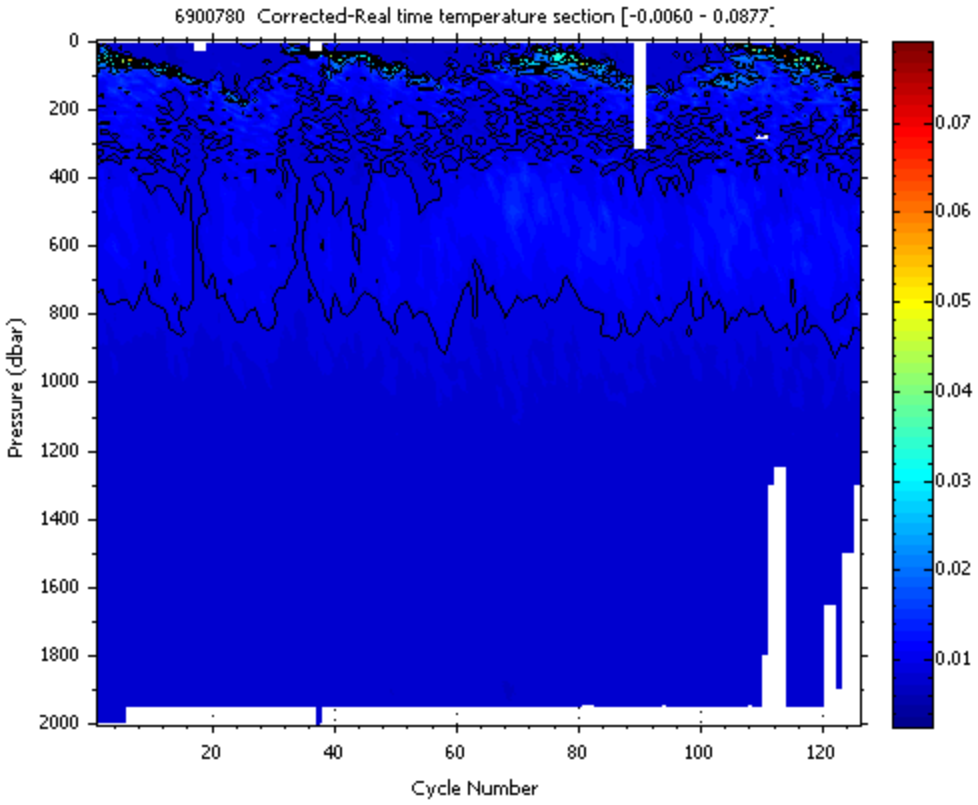
```
    ind=find(isnan(ptem_ad)==0 & isnan(ppre_ad)==0);
    ptem2_ad=ptem_ad(ind);
    ppre2_ad=ppre_ad(ind);
    if length(ptem2_ad)>2
        [ppre2_ad,I,J] = unique(ppre2_ad);
        ptem2_ad=ptem2_ad(I);
        tems_adi(:,icycle)= interp1(ppre2_ad,ptem2_ad,ppre);
    end
end

%Salinity differences
figure
pcolor(ones(size(pres_ad,1),1)*[1:1:size(Profs,2)],pres,sals_adi-sals);grid on
shading interp;colorbar
contour(ones(size(pres_ad,1),1)*[1:1:size(Profs,2)],pres,sals_adi-sals,10,'k')
colorbar
title(sprintf('%s Corrected-Real time salinity section [%5.4f - %5.4f]',Profs(
set(gca,'Xgrid','on','XMinorTick','on','Ygrid','off','YMinorTick','on','tickdi
ylabel('Pressure (dbar)')
xlabel('Cycle Number')

%Temperature differences
figure
pcolor(ones(size(pres_ad,1),1)*[1:1:size(Profs,2)],pres,tems_adi-tems);grid on
shading interp;colorbar
contour(ones(size(pres_ad,1),1)*[1:1:size(Profs,2)],pres,tems_adi-tems,10,'k')
colorbar
title(sprintf('%s Corrected-Real time temperature section [%5.4f - %5.4f]',Pro
set(gca,'Xgrid','on','XMinorTick','on','Ygrid','off','YMinorTick','on','tickdi
ylabel('Pressure (dbar)')
xlabel('Cycle Number')


figure
subplot(2,1,1)
errorbar([1:1:size(Profs,2)],nanmean(sals_adi-sals),nanstd(sals_adi-sals));hol
plot([1:1:size(Profs,2)],nanmean(sals_adi-sals),'r','linewidth',2)
set(gca,'Xgrid','on','XMinorTick','on','Ygrid','off','YMinorTick','on')
title('Vertical mean Corrected-Real time temperature')
xlabel('Cycle Number')
subplot(2,1,2)
errorbar([1:1:size(Profs,2)],nanmean(tems_adi-tems),nanstd(tems_adi-tems));hol
plot([1:1:size(Profs,2)],nanmean(tems_adi-tems),'r','linewidth',2)
set(gca,'Xgrid','on','XMinorTick','on','Ygrid','off','YMinorTick','on')
title('Vertical mean Corrected-Real time temperature')
xlabel('Cycle Number')

%------------------------------------------------------------------------
```

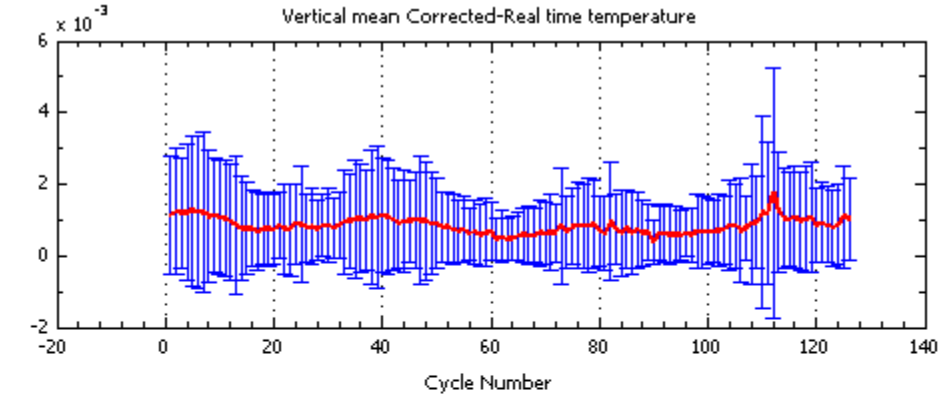

6900780 TS Corrected QC=1,2,
RT
DM
30
25
20
15
10
5
0
34
34.5
35
35.5
36
36.5
37

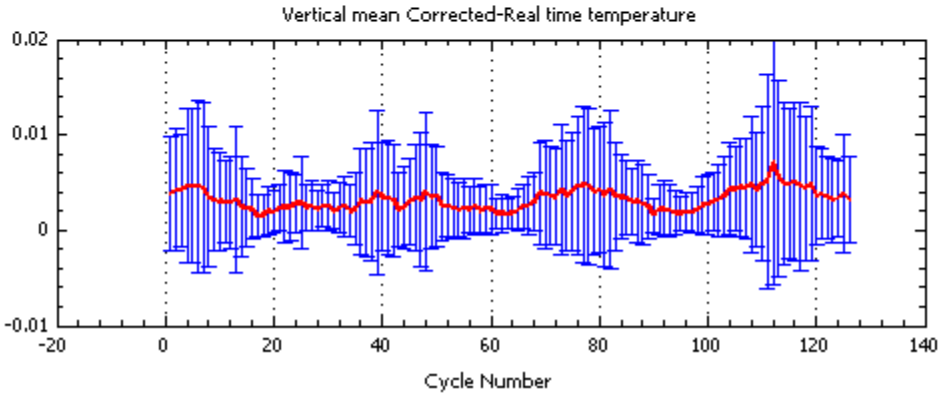

6900780 Corrected Salinity sectior
Pressure (dbar)
200
400
600
800
1000
1200
1400
1600
1800
2000
20
40
60
80
100
120
Profile Number
36.2
36
35.8
35.6
35.4
35.2
35
34.8
34.6


6900780 Corrected Temperature section
Pressure (dbar)
Profile Number
200
400
600
800
1000
1200
1400
1600
1800
2000
20
40
60
80
100
120
25
20
15
10
5


6900780 Corrected-Real time salinity section [-0.0083 - 0.0228]
x 10^-3
Pressure (dbar)
Cycle Number
0
200
400
600
800
1000
1200
1400
1600
1800
2000
20
40
60
80
100
120
15
10
5
0
-5


6900780 Corrected-Real time temperature section [-0.0060 - 0.0877]
Pressure (dbar)
Cycle Number


Vertical mean Corrected-Real time temperature
x 10^-3
Cycle Number


Vertical mean Corrected-Real time temperature
Cycle Number

Revision de scientific_calib

```
%--------------------------------------------------------------------
for icycle=1:size(Profs,2)
    fprintf('    > Ciclo %3d. N_CALIB %d N_HSITORY%d \n',icycle,Profs(icycle).
    station_parameters=Profs(icycle).station_parameters;
    for ip=1:size(station_parameters,2)
        for ih=1:Profs(icycle).n_calib
            fprintf('      %d scientific_calib_coefficient %s: %s\n',ih,statio
            fprintf('      %d scientific_calib_comment     %s: %s\n',ih,statio
            fprintf('      %d scientific_calib_date        %s: %s\n',ih,statio
            fprintf('      %d scientific_calib_equation    %s: %s\n',ih,statio
        end
    end
    for ih=1:Profs(icycle).n_history
        fprintf('      %d history_institution %s\n',ih,Profs(icycle).history_i
        fprintf('      %d history_history_step %s\n',ih,Profs(icycle).history_
        fprintf('      %d history_history_date %s\n',ih,Profs(icycle).history_
        fprintf('      %d history_history_action %s\n',ih,Profs(icycle).histor
    end
end

%--------------------------------------------------------------------
```

```
    > Ciclo   1. N_CALIB 1 N_HSITORY8
      1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
      1 scientific_calib_comment     PRES: APEX float that not truncated n
      1 scientific_calib_date        PRES: 20161221125316
      1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
      1 scientific_calib_coefficient TEMP:
      1 scientific_calib_comment     TEMP:
      1 scientific_calib_date        TEMP:
      1 scientific_calib_equation    TEMP:
      1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
      1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
      1 scientific_calib_date        PSAL: 20161221125339
      1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
      1 history_institution IF
      1 history_history_step CORT
      1 history_history_date 20110212052745
      1 history_history_action QCP$
      2 history_institution IF
      2 history_history_step CORT
      2 history_history_date 20110212052228
      2 history_history_action QCP$
      3 history_institution IF
      3 history_history_step ARGQ
      3 history_history_date 20110210151129
      3 history_history_action QCP$
      4 history_institution IF
      4 history_history_step ARGQ
      4 history_history_date 20110210151129
      4 history_history_action QCF$
```

```
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20110211155344
  5 history_history_action QC
  6 history_institution
  6 history_history_step
  6 history_history_date 20111004174710
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150203
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150602
  8 history_history_action QC
> Ciclo   2. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20110208113155
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20110205153126
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20110205153126
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20110206053903
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20110206054513
  5 history_history_action QCP$
  6 history_institution
  6 history_history_step
  6 history_history_date 20111004183320
  6 history_history_action SVP
  7 history_institution IF
```

```
  7 history_history_step
  7 history_history_date 20130312150203
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150602
  8 history_history_action QC
> Ciclo   3. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20110216094811
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20110215163125
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20110215163125
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20110216160637
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20110216161125
  5 history_history_action QCP$
  6 history_institution
  6 history_history_step
  6 history_history_date 20111004191320
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150203
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150601
  8 history_history_action QC
> Ciclo   4. N_CALIB 1 N_HSITORY10
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
```

```
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20110225163101
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20110225163101
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20110228110851
  3 history_history_action QC
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20110228083401
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20110228082149
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step CORT
  6 history_history_date 20110301073339
  6 history_history_action QCF$
  7 history_institution IF
  7 history_history_step CORT
  7 history_history_date 20110301073920
  7 history_history_action QCF$
  8 history_institution
  8 history_history_step
  8 history_history_date 20111004195417
  8 history_history_action SVP
  9 history_institution IF
  9 history_history_step
  9 history_history_date 20130312150203
  9 history_history_action QC
  10 history_institution IF
  10 history_history_step
  10 history_history_date 20130312150601
  10 history_history_action QC
> Ciclo   5. N_CALIB 1 N_HSITORY10
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
```

```
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20110308155509
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20110310125032
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20110315085820
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20110307163113
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20110307163113
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step CORT
  6 history_history_date 20110315085925
  6 history_history_action QCF$
  7 history_institution IF
  7 history_history_step CORT
  7 history_history_date 20110310124306
  7 history_history_action QCP$
  8 history_institution
  8 history_history_step
  8 history_history_date 20111004204319
  8 history_history_action SVP
  9 history_institution IF
  9 history_history_step
  9 history_history_date 20130312150203
  9 history_history_action QC
  10 history_institution IF
  10 history_history_step
  10 history_history_date 20130312150601
  10 history_history_action QC
> Ciclo   6. N_CALIB 1 N_HSITORY10
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
```

```
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20110318061312
  1 history_history_action QCF$
  2 history_institution IF
  2 history_history_step
  2 history_history_date 20110318092904
  2 history_history_action QC
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20110317163115
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20110317163115
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20110320013537
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step CORT
  6 history_history_date 20110320014610
  6 history_history_action QCP$
  7 history_institution IF
  7 history_history_step CORT
  7 history_history_date 20110318061448
  7 history_history_action QCF$
  8 history_institution
  8 history_history_step
  8 history_history_date 20111004220913
  8 history_history_action SVP
  9 history_institution IF
  9 history_history_step
  9 history_history_date 20130312150202
  9 history_history_action QC
  10 history_institution IF
  10 history_history_step
  10 history_history_date 20130312150600
  10 history_history_action QC
> Ciclo   7. N_CALIB 1 N_HSITORY10
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
```

```
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20110327173215
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20110327173215
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20110328052605
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20110328190210
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20110329064058
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step CORT
  6 history_history_date 20110328052940
  6 history_history_action QCF$
  7 history_institution IF
  7 history_history_step CORT
  7 history_history_date 20110329064650
  7 history_history_action QCP$
  8 history_institution
  8 history_history_step
  8 history_history_date 20111004230224
  8 history_history_action SVP
  9 history_institution IF
  9 history_history_step
  9 history_history_date 20130312150202
  9 history_history_action QC
  10 history_institution IF
  10 history_history_step
  10 history_history_date 20130312150600
  10 history_history_action QC
> Ciclo   8. N_CALIB 1 N_HSITORY10
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
```

```
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20110407160159
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20110407045829
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20110407045446
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20110406181434
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20110406181434
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step CORT
  6 history_history_date 20110414045414
  6 history_history_action QCP$
  7 history_institution IF
  7 history_history_step CORT
  7 history_history_date 20110414044932
  7 history_history_action QCP$
  8 history_institution
  8 history_history_step
  8 history_history_date 20111004235919
  8 history_history_action SVP
  9 history_institution IF
  9 history_history_step
  9 history_history_date 20130312150202
  9 history_history_action QC
  10 history_institution IF
  10 history_history_step
  10 history_history_date 20130312150600
  10 history_history_action QC
> Ciclo   9. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
```

```
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20110421045509
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20110421045109
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20110421090853
  3 history_history_action QC
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20110420180942
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20110420180942
  5 history_history_action QCF$
  6 history_institution
  6 history_history_step
  6 history_history_date 20111005005728
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150202
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150600
  8 history_history_action QC
> Ciclo  10. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20110428153734
```

```
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20110427134325
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20110427134325
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20110513061731
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20110513060839
  5 history_history_action QCP$
  6 history_institution
  6 history_history_step
  6 history_history_date 20111005020054
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150202
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150600
  8 history_history_action QC
> Ciclo  11. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20110506181003
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20110506181003
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20110507054923
  3 history_history_action QCP$
```

```
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20110509092952
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20110507055716
  5 history_history_action QCP$
  6 history_institution
  6 history_history_step
  6 history_history_date 20111005030634
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150202
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150600
  8 history_history_action QC
> Ciclo  12. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20110517100201
  1 history_history_action CF
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20110517062030
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20110517061151
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20110516180906
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20110516180906
  5 history_history_action QCF$
  6 history_institution
```

```
  6 history_history_step
  6 history_history_date 20111005041230
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150201
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150559
  8 history_history_action QC
> Ciclo  13. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20110527140159
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20110526181603
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20110526181603
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20110528053610
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20110528054655
  5 history_history_action QCP$
  6 history_institution
  6 history_history_step
  6 history_history_date 20111005052057
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150201
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
```

```
  8 history_history_date 20130312150559
  8 history_history_action QC
> Ciclo  14. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20110606041607
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20110606042903
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20110605181914
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20110605181914
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20110606102646
  5 history_history_action QC
  6 history_institution
  6 history_history_step
  6 history_history_date 20111005062156
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150201
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150559
  8 history_history_action QC
> Ciclo  15. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
```

```
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20110615181208
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20110615181208
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20110616033305
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20110616032414
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20110616101809
  5 history_history_action QC
  6 history_institution
  6 history_history_step
  6 history_history_date 20111005072633
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150201
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150559
  8 history_history_action QC
> Ciclo  16. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20110626035920
```

```
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20110626040908
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20110627095925
  3 history_history_action QC
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20110625181318
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20110625181318
  5 history_history_action QCF$
  6 history_institution
  6 history_history_step
  6 history_history_date 20111005085203
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150201
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150559
  8 history_history_action QC
> Ciclo  17. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20110706064002
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20110706062936
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20110711114735
  3 history_history_action QC
```

```
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20110705181311
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20110705181311
  5 history_history_action QCF$
  6 history_institution
  6 history_history_step
  6 history_history_date 20111005105934
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150201
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150558
  8 history_history_action QC
> Ciclo  18. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20110716041716
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20110716042726
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20110718115259
  3 history_history_action QC
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20110715181039
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20110715181039
  5 history_history_action QCF$
  6 history_institution
```

```
  6 history_history_step
  6 history_history_date 20111005131548
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150201
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150558
  8 history_history_action QC
> Ciclo  19. N_CALIB 1 N_HSITORY9
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20110726083657
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step
  2 history_history_date 20110726083710
  2 history_history_action QC
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20110726034631
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20110726033656
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20110725220954
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step ARGQ
  6 history_history_date 20110725220954
  6 history_history_action QCF$
  7 history_institution
  7 history_history_step
  7 history_history_date 20111005152038
  7 history_history_action SVP
  8 history_institution IF
  8 history_history_step
```

```
  8 history_history_date 20130312150200
  8 history_history_action QC
  9 history_institution IF
  9 history_history_step
  9 history_history_date 20130312150558
  9 history_history_action QC
> Ciclo  20. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20110804181230
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20110804181230
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20110805034435
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20110805094230
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20110805033704
  5 history_history_action QCP$
  6 history_institution
  6 history_history_step
  6 history_history_date 20111005171610
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150200
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150558
  8 history_history_action QC
> Ciclo  21. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
```

```
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20110814220939
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20110814220939
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20110816113211
  3 history_history_action QC
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20110815043030
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20110815043921
  5 history_history_action QCP$
  6 history_institution
  6 history_history_step
  6 history_history_date 20111005184038
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150200
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150558
  8 history_history_action QC
> Ciclo  22. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
```

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  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20110825100202
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20110825045001
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20110825044000
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20110824181137
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20110824181137
  5 history_history_action QCF$
  6 history_institution
  6 history_history_step
  6 history_history_date 20111005201508
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150200
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150558
  8 history_history_action QC
> Ciclo  23. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20110903220949
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20110903220949
  2 history_history_action QCF$
```

```
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20110905105206
  3 history_history_action QC
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20110904033822
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20110904034609
  5 history_history_action QCP$
  6 history_institution
  6 history_history_step
  6 history_history_date 20111005215627
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150200
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150558
  8 history_history_action QC
> Ciclo  24. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20110914033437
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20110914033939
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20110913181319
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20110913181319
  4 history_history_action QCF$
  5 history_institution IF
```

```
  5 history_history_step
  5 history_history_date 20110914092341
  5 history_history_action QC
  6 history_institution
  6 history_history_step
  6 history_history_date 20111005232609
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150200
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150558
  8 history_history_action QC
> Ciclo  25. N_CALIB 1 N_HSITORY10
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20110924033339
  1 history_history_action QCF$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20110926155606
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20110924032923
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20110926095506
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20110923181243
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step ARGQ
  6 history_history_date 20110923181243
  6 history_history_action QCF$
  7 history_institution IF
  7 history_history_step CORT
```

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  7 history_history_date 20110926155032
  7 history_history_action QCP$
  8 history_institution
  8 history_history_step
  8 history_history_date 20111024121012
  8 history_history_action SVP
  9 history_institution IF
  9 history_history_step
  9 history_history_date 20130312150159
  9 history_history_action QC
  10 history_institution IF
  10 history_history_step
  10 history_history_date 20130312150557
  10 history_history_action QC
> Ciclo  26. N_CALIB 1 N_HSITORY10
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20111004102337
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20111004050917
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20111004051518
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20111004165502
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20111004164923
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step ARGQ
  6 history_history_date 20111003181328
  6 history_history_action QCP$
  7 history_institution IF
  7 history_history_step ARGQ
  7 history_history_date 20111003181328
```

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  7 history_history_action QCF$
  8 history_institution
  8 history_history_step
  8 history_history_date 20120321190117
  8 history_history_action SVP
  9 history_institution IF
  9 history_history_step
  9 history_history_date 20130312150159
  9 history_history_action QC
  10 history_institution IF
  10 history_history_step
  10 history_history_date 20130312150557
  10 history_history_action QC
> Ciclo  27. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20111017095413
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20111013181418
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20111013181418
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20111014172621
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20111014173441
  5 history_history_action QCP$
  6 history_institution
  6 history_history_step
  6 history_history_date 20120321235429
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150159
  7 history_history_action QC
```

```
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150557
  8 history_history_action QC
> Ciclo  28. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20111023182249
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20111023182249
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20111024034100
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20111024034941
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20111024102456
  5 history_history_action QC
  6 history_institution
  6 history_history_step
  6 history_history_date 20120322033945
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150159
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150557
  8 history_history_action QC
> Ciclo  29. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
```

```
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20111103044103
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step
  2 history_history_date 20111103100433
  2 history_history_action QC
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20111103044859
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20111102232956
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20111102232956
  5 history_history_action QCF$
  6 history_institution
  6 history_history_step
  6 history_history_date 20120322071728
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150159
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150557
  8 history_history_action QC
> Ciclo  30. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
```

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  1 history_history_step CORT
  1 history_history_date 20111113044406
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step
  2 history_history_date 20111114095007
  2 history_history_action QC
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20111113045405
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20111112192522
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20111112192522
  5 history_history_action QCF$
  6 history_institution
  6 history_history_step
  6 history_history_date 20120322113951
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150159
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150557
  8 history_history_action QC
> Ciclo  31. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20111123072414
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step
  2 history_history_date 20111123104028
  2 history_history_action QC
  3 history_institution IF
  3 history_history_step CORT
```

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  3 history_history_date 20111123071609
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20111122191248
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20111122191248
  5 history_history_action QCF$
  6 history_institution
  6 history_history_step
  6 history_history_date 20120322171732
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150158
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150557
  8 history_history_action QC
> Ciclo  32. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20111205112508
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20111202191017
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20111202191017
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20111203055302
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20111203060101
```

```
  5 history_history_action QCP$
  6 history_institution
  6 history_history_step
  6 history_history_date 20120322123919
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150158
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150557
  8 history_history_action QC
> Ciclo  33. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20111212191239
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20111212191239
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20111213045830
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20111213093241
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20111213050842
  5 history_history_action QCP$
  6 history_institution
  6 history_history_step
  6 history_history_date 20120322173735
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150158
  7 history_history_action QC
```

```
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150556
  8 history_history_action QC
> Ciclo  34. N_CALIB 1 N_HSITORY8
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20111222191143
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20111222191143
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20111223042038
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20111223092631
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20111223042832
  5 history_history_action QCP$
  6 history_institution
  6 history_history_step
  6 history_history_date 20120322182825
  6 history_history_action SVP
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150158
  7 history_history_action QC
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150556
  8 history_history_action QC
> Ciclo  35. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
```

```
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20120102044223
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step
  2 history_history_date 20120103091944
  2 history_history_action QC
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20120102043022
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20120101191059
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20120101191059
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150158
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150556
  7 history_history_action QC
> Ciclo  36. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20120113103726
  1 history_history_action QC
  2 history_institution IF
```

```
  2 history_history_step CORT
  2 history_history_date 20120112055127
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20120112060216
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20120111191153
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20120111191153
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150158
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150556
  7 history_history_action QC
> Ciclo  37. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20120123100249
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120121190937
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20120121190937
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20120122052608
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
```

```
  5 history_history_date 20120122053455
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150158
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150555
  7 history_history_action QC
> Ciclo  38. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20120131190903
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120131190903
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20120201044800
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20120201081417
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20120201043909
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150158
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150555
  7 history_history_action QC
> Ciclo  39. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
```

```
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20120211051607
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20120211052633
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20120213100033
  3 history_history_action QC
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20120210231108
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20120210231108
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150157
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150555
  7 history_history_action QC
> Ciclo  40. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20120220191242
```

```
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120220191242
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20120221050941
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20120221045945
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20120221091105
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150157
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150555
  7 history_history_action QC
> Ciclo  41. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20120301191129
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120301191129
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20120302143420
  3 history_history_action QC
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20120302065032
  4 history_history_action QCP$
```

```
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20120302070321
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150157
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150555
  7 history_history_action QC
> Ciclo  42. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20120311191313
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120311191313
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20120313063941
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20120312152408
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20120313062639
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150157
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150555
  7 history_history_action QC
> Ciclo  43. N_CALIB 1 N_HSITORY7
```

```
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20120326134942
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120321191157
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20120321191157
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20120322061239
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20120322060231
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150157
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150555
  7 history_history_action QC
> Ciclo  44. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
```

```
  1 history_history_step
  1 history_history_date 20120402091417
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120331181330
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20120331181330
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20120401043617
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20120401042738
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150157
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150554
  7 history_history_action QC
> Ciclo  45. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20120412090603
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20120411051744
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20120411050620
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
```

```
  4 history_history_date 20120410181407
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20120410181407
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150157
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150554
  7 history_history_action QC
> Ciclo  46. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20120420202941
  1 history_history_action QCF$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120420202941
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20120421050006
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20120424143606
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20120421044036
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150157
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150554
```

```
  7 history_history_action QC
> Ciclo  47. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20120501035733
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20120501041108
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20120430205830
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20120430205830
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20120502092406
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150156
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150554
  7 history_history_action QC
> Ciclo  48. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
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  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20120511003638
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120511003638
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20120511160747
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20120511155733
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20120514112041
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150156
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150554
  7 history_history_action QC
> Ciclo  49. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20120524162956
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step
  2 history_history_date 20120524100636
  2 history_history_action QC
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20120524080048
  3 history_history_action QCP$
```

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  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20120524080048
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20120524162018
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150156
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150554
  7 history_history_action QC
> Ciclo  50. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20120531035814
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20120531035113
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20120530203018
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20120530203018
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20120531113940
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150156
  6 history_history_action QC
  7 history_institution IF
```

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  7 history_history_step
  7 history_history_date 20130312150554
  7 history_history_action QC
> Ciclo  51. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20120609202931
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120609202931
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20120611115805
  3 history_history_action QC
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20120610031353
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20120610030504
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150156
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150554
  7 history_history_action QC
> Ciclo  52. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
```

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  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20120620024930
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120619203126
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20120619203126
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20120620025818
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20120620102414
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150156
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150554
  7 history_history_action QC
> Ciclo  53. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20120630041044
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20120630042134
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
```

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  3 history_history_date 20120629202814
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20120629202814
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20120702100214
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150156
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150553
  7 history_history_action QC
> Ciclo  54. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20120709214835
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120709214835
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20120710035638
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20120710034908
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20120710095743
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150155
```

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  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150553
  7 history_history_action QC
> Ciclo  55. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20120720113952
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20120721042920
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20120721042134
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20120720085319
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20120720085319
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150155
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150553
  7 history_history_action QC
> Ciclo  56. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
```

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  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20120805145746
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120805102456
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20120805102456
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20120805145052
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20120806152947
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150155
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150553
  7 history_history_action QC
> Ciclo  57. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20120808202928
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120808202928
  2 history_history_action QCF$
```

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  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20120809030713
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20120820113854
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20120809030046
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150155
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150553
  7 history_history_action QC
> Ciclo  58. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20120819034926
  1 history_history_action QCF$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20120819034239
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20120820113853
  3 history_history_action QC
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20120818203624
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20120818203624
  5 history_history_action QCF$
  6 history_institution IF
```

```
  6 history_history_step
  6 history_history_date 20130312150155
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150553
  7 history_history_action QC
> Ciclo  59. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20120829093046
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120829005501
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20120829005501
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20120829042436
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20120829043234
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150155
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150553
  7 history_history_action QC
> Ciclo  60. N_CALIB 1 N_HSITORY9
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
```

```
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20120908042139
  1 history_history_action QCF$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20120908041506
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20120908020502
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20120908020502
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20120910141638
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step CORT
  6 history_history_date 20120911043634
  6 history_history_action QCP$
  7 history_institution IF
  7 history_history_step CORT
  7 history_history_date 20120911042832
  7 history_history_action QCP$
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150155
  8 history_history_action QC
  9 history_institution IF
  9 history_history_step
  9 history_history_date 20130312150552
  9 history_history_action QC
> Ciclo  61. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
```

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  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20120918050434
  1 history_history_action QCF$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20120918050434
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20120918151822
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20120918151338
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20120919092448
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150154
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150552
  7 history_history_action QC
> Ciclo  62. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20120928031216
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20120928031826
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20120928092053
```

```
  3 history_history_action QC
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20120928002659
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20120928002659
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150154
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150552
  7 history_history_action QC
> Ciclo  63. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20121008041914
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step
  2 history_history_date 20121008104613
  2 history_history_action QC
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20121008041218
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20121007223824
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20121007223824
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150154
  6 history_history_action QC
```

```
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150552
  7 history_history_action QC
> Ciclo  64. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20121018103418
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20121018035853
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20121018040529
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20121017191721
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20121017191721
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150154
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150552
  7 history_history_action QC
> Ciclo  65. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
```

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  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20121028031916
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20121027211155
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20121027211155
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20121028031339
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20121029103808
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150154
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150552
  7 history_history_action QC
> Ciclo  66. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20121106165024
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20121106165024
  2 history_history_action QCF$
  3 history_institution IF
```

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  3 history_history_step CORT
  3 history_history_date 20121107044346
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20121107044832
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20121107144131
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150154
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150552
  7 history_history_action QC
> Ciclo  67. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20121116203317
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20121116203317
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20121117045525
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20121117050223
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20121119113306
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step
```

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  6 history_history_date 20130312150154
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150552
  7 history_history_action QC
> Ciclo  68. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20121127060129
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20121126164004
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20121126164004
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20121127113353
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20121127055445
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150154
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150552
  7 history_history_action QC
> Ciclo  69. N_CALIB 1 N_HSITORY9
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
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  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20121207104328
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20121207063107
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20121207062404
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20121206172139
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20121206172139
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step CORT
  6 history_history_date 20121207173818
  6 history_history_action QCF$
  7 history_institution IF
  7 history_history_step CORT
  7 history_history_date 20121207174325
  7 history_history_action QCF$
  8 history_institution IF
  8 history_history_step
  8 history_history_date 20130312150153
  8 history_history_action QC
  9 history_institution IF
  9 history_history_step
  9 history_history_date 20130312150551
  9 history_history_action QC
> Ciclo  70. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
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  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20121217163951
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20121218063625
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20121216171112
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20121216171112
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20121218062859
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150153
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150551
  7 history_history_action QC
> Ciclo  71. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20121228054624
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step
  2 history_history_date 20121228152415
  2 history_history_action QC
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20121226170825
  3 history_history_action QCP$
```

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  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20121226170825
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20121228053845
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150153
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150551
  7 history_history_action QC
> Ciclo  72. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20130106051443
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step
  2 history_history_date 20130107173213
  2 history_history_action QC
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20130106050923
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20130105165351
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20130105165351
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150153
  6 history_history_action QC
  7 history_institution IF
```

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  7 history_history_step
  7 history_history_date 20130312150551
  7 history_history_action QC
> Ciclo  73. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20130116055449
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step
  2 history_history_date 20130116091932
  2 history_history_action QC
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20130116054705
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20130115171244
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20130115171244
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150153
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150551
  7 history_history_action QC
> Ciclo  74. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
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  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20130125151955
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130125151955
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20130126045049
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20130126044307
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20130129111929
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150153
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150550
  7 history_history_action QC
> Ciclo  75. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20130206113024
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20130206042747
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step CORT
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  3 history_history_date 20130206043235
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20130205165637
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20130205165637
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130312150153
  6 history_history_action QC
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130312150550
  7 history_history_action QC
> Ciclo  76. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20130215045905
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20130215045144
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20130215151229
  3 history_history_action QC
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20130312150152
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20130312150550
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step ARGQ
  6 history_history_date 20130214180930
```

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  6 history_history_action QCP$
  7 history_institution IF
  7 history_history_step ARGQ
  7 history_history_date 20130214180930
  7 history_history_action QCF$
> Ciclo  77. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20130225055906
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20130225055050
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20130312150152
  3 history_history_action QC
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20130312150550
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20130224210057
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step ARGQ
  6 history_history_date 20130224210057
  6 history_history_action QCF$
  7 history_institution IF
  7 history_history_step
  7 history_history_date 20130301161553
  7 history_history_action QC
> Ciclo  78. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
```

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  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20130307023316
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130307023316
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20130308090500
  3 history_history_action QC
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20130312150152
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20130312150550
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step CORT
  6 history_history_date 20130307173958
  6 history_history_action QCP$
  7 history_institution IF
  7 history_history_step CORT
  7 history_history_date 20130307174824
  7 history_history_action QCP$
> Ciclo  79. N_CALIB 1 N_HSITORY6
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20130317051509
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130316174759
  2 history_history_action QCP$
```

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  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20130316174759
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20130317052408
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20130409114158
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step
  6 history_history_date 20130319142615
  6 history_history_action QC
> Ciclo  80. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20130409114229
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130409114229
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20130409182649
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20130409114216
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20130409181731
  5 history_history_action QCP$
> Ciclo  81. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
```

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  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20130406060815
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130406002526
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20130406002526
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20130406061819
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20130408113020
  5 history_history_action QC
> Ciclo  82. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20130415180118
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130415180118
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step
  3 history_history_date 20130418165236
  3 history_history_action QC
  4 history_institution IF
```

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  4 history_history_step CORT
  4 history_history_date 20130416045228
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20130416044420
  5 history_history_action QCP$
> Ciclo  83. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20130425172413
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130425172413
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20130426070416
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20130426114259
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20130426065635
  5 history_history_action QCP$
> Ciclo  84. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
```

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  1 history_history_step ARGQ
  1 history_history_date 20130505155349
  1 history_history_action QCF$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130505155349
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20130506040608
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20130506041401
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20130506094759
  5 history_history_action QC
> Ciclo  85. N_CALIB 1 N_HSITORY6
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20130516052443
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20130516053232
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20130515174626
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20130515174626
  4 history_history_action QCC$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20130515174626
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step
```

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  6 history_history_date 20130521172831
  6 history_history_action QC
> Ciclo  86. N_CALIB 1 N_HSITORY10
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20130528185037
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130528185037
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20130528185037
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20130525165810
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20130525165810
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step ARGQ
  6 history_history_date 20130525165810
  6 history_history_action QCC$
  7 history_institution IF
  7 history_history_step CORT
  7 history_history_date 20130526054323
  7 history_history_action QCP$
  8 history_institution IF
  8 history_history_step CORT
  8 history_history_date 20130526053611
  8 history_history_action QCP$
  9 history_institution IF
  9 history_history_step CORT
  9 history_history_date 20130612023146
  9 history_history_action QCF$
 10 history_institution IF
 10 history_history_step
 10 history_history_date 20130527141144
```

```
  10 history_history_action QC
> Ciclo  87. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20130605062759
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130604165136
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20130604165136
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20130604165136
  4 history_history_action QCC$
  5 history_institution IF
  5 history_history_step
  5 history_history_date 20130606113221
  5 history_history_action QC
  6 history_institution IF
  6 history_history_step CORT
  6 history_history_date 20130605063336
  6 history_history_action QCP$
  7 history_institution IF
  7 history_history_step CORT
  7 history_history_date 20130612023146
  7 history_history_action QCF$
> Ciclo  88. N_CALIB 1 N_HSITORY6
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
```

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  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step
  1 history_history_date 20130619153001
  1 history_history_action QC
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20130615055212
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step CORT
  3 history_history_date 20130615054433
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20130614165736
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20130614165736
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step ARGQ
  6 history_history_date 20130614165736
  6 history_history_action QCC$
> Ciclo  89. N_CALIB 1 N_HSITORY6
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20130624170542
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130624170542
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20130624170542
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20130625121848
  4 history_history_action QC
```

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  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20130625150433
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step CORT
  6 history_history_date 20130625151206
  6 history_history_action QCP$
> Ciclo  90. N_CALIB 1 N_HSITORY6
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20130704144431
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130704144431
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20130704144431
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20130705052140
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20130705052714
  5 history_history_action QCP$
  6 history_institution SP
  6 history_history_step ARSQ
  6 history_history_date 20160906135254
  6 history_history_action CF
> Ciclo  91. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
```

```
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20130715053013
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130714180130
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20130714180130
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20130714180130
  4 history_history_action QCC$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20130715052323
  5 history_history_action QCP$
> Ciclo  92. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20130725045242
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20130725044641
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20130724185128
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20130724185128
  4 history_history_action QCF$
  5 history_institution IF
```

```
  5 history_history_step ARGQ
  5 history_history_date 20130724185128
  5 history_history_action QCC$
> Ciclo  93. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20130803163207
  1 history_history_action QCF$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130803163207
  2 history_history_action QCC$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20130803163207
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20130804050814
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20130804051449
  5 history_history_action QCP$
> Ciclo  94. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20130814172159
  1 history_history_action QCP$
  2 history_institution IF
```

```
  2 history_history_step ARGQ
  2 history_history_date 20130813164342
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20130813164342
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20130813164342
  4 history_history_action QCC$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20130814171526
  5 history_history_action QCP$
> Ciclo  95. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20130823173950
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130823173950
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20130823173950
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20130824055439
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20130824054831
  5 history_history_action QCP$
> Ciclo  96. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
```

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  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20130902194728
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130902194728
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20130902194728
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20130903053130
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20130903053755
  5 history_history_action QCP$
> Ciclo  97. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20130913041717
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20130913041320
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20130912195628
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
```

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  4 history_history_date 20130912195628
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20130912195628
  5 history_history_action QCC$
> Ciclo  98. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20130924135805
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20130924135805
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20130924135805
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20130925050149
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20130925050745
  5 history_history_action QCP$
> Ciclo  99. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
```

```
  1 history_history_date 20131003061110
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20131002172430
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20131002172430
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20131002172430
  4 history_history_action QCC$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20131003060434
  5 history_history_action QCP$
> Ciclo 100. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20131012171411
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20131012171411
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20131012171411
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20131013061513
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20131013060800
  5 history_history_action QCP$
> Ciclo 101. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
```

```
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20131022170623
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20131022170623
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20131022170623
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20131023182605
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20131023183244
  5 history_history_action QCP$
> Ciclo 102. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20131101164845
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20131101164845
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20131101164845
```

```
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20131102060910
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20131102061523
  5 history_history_action QCP$
> Ciclo 103. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20131112061434
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20131112060728
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20131111164610
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20131111164610
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20131111164610
  5 history_history_action QCC$
> Ciclo 104. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
```

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  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20131121190001
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20131121190001
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20131121190001
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20131122063053
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20131122062401
  5 history_history_action QCP$
> Ciclo 105. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20131201183423
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20131201183423
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20131201183423
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20131202063504
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20131202062913
  5 history_history_action QCP$
```

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> Ciclo 106. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20131212061319
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20131211190105
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20131211190105
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20131211190105
  4 history_history_action QCC$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20131212061736
  5 history_history_action QCP$
> Ciclo 107. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20131221172115
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20131221172115
  2 history_history_action QCF$
```

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  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20131221172115
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20131222062621
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20131222063332
  5 history_history_action QCP$
> Ciclo 108. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20131231172903
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20131231172903
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20131231172903
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20140101063153
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20140101064000
  5 history_history_action QCP$
> Ciclo 109. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
```

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  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20140111070832
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20140111071529
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140110172805
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20140110172805
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20140110172805
  5 history_history_action QCC$
> Ciclo 110. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20140121071357
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20140120154501
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140120154501
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20140120154501
  4 history_history_action QCC$
  5 history_institution IF
```

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  5 history_history_step CORT
  5 history_history_date 20140121071920
  5 history_history_action QCP$
> Ciclo 111. N_CALIB 1 N_HSITORY6
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20140130172835
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20140130172835
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140130172835
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20140131155510
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20140131070951
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step CORT
  6 history_history_date 20140131070308
  6 history_history_action QCF$
> Ciclo 112. N_CALIB 1 N_HSITORY6
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
```

```
  1 history_history_step ARGQ
  1 history_history_date 20140209165117
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20140209165117
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140209165117
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20140214154343
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20140210065536
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step CORT
  6 history_history_date 20140210070156
  6 history_history_action QCF$
> Ciclo 113. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20140219170144
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20140219170144
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140219170144
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20140220063359
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
```

```
  5 history_history_date 20140220064003
  5 history_history_action QCP$
> Ciclo 114. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20140302063542
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20140301170633
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140301170633
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20140301170633
  4 history_history_action QCC$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20140302063004
  5 history_history_action QCP$
> Ciclo 115. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20140311182200
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
```

```
  2 history_history_date 20140311182200
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140311182200
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20140312072446
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20140312071749
  5 history_history_action QCP$
> Ciclo 116. N_CALIB 1 N_HSITORY6
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20140321180104
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20140321180104
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140321180104
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step
  4 history_history_date 20140326173929
  4 history_history_action QC
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20140322071212
  5 history_history_action QCF$
  6 history_institution IF
  6 history_history_step CORT
  6 history_history_date 20140322070609
  6 history_history_action QCF$
> Ciclo 117. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
```

```
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20140331170121
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20140331170121
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140331170121
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20140401062206
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20140401062858
  5 history_history_action QCP$
> Ciclo 118. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20140410200519
  1 history_history_action QCF$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20140410200519
  2 history_history_action QCC$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140410200519
```

```
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20140411055240
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20140411054636
  5 history_history_action QCP$
> Ciclo 119. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20140420201514
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20140420201514
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140420201514
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20140421053803
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20140421053239
  5 history_history_action QCP$
> Ciclo 120. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
```

```
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20140501062607
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step CORT
  2 history_history_date 20140501062004
  2 history_history_action QCP$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140430201523
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20140430201523
  4 history_history_action QCF$
  5 history_institution IF
  5 history_history_step ARGQ
  5 history_history_date 20140430201523
  5 history_history_action QCC$
> Ciclo 121. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20140510201632
  1 history_history_action QCF$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20140510201632
  2 history_history_action QCC$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140510201632
  3 history_history_action QCP$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20140511071212
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20140511071900
  5 history_history_action QCP$
```

```
> Ciclo 122. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20140521073301
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20140520211936
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140520211936
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20140520211936
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20140521074037
  5 history_history_action QCP$
> Ciclo 123. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 history_institution IF
  1 history_history_step CORT
  1 history_history_date 20140531054341
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20140530191533
  2 history_history_action QCP$
```

```
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140530191533
  3 history_history_action QCF$
  4 history_institution IF
  4 history_history_step ARGQ
  4 history_history_date 20140530191533
  4 history_history_action QCC$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20140531055026
  5 history_history_action QCP$
> Ciclo 124. N_CALIB 1 N_HSITORY7
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20140609191654
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20140609191654
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140609191654
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20140610080211
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20140610075526
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step CODM
  6 history_history_date 20140708025004
  6 history_history_action QCP$
  7 history_institution IF
  7 history_history_step CODM
  7 history_history_date 20140708015454
  7 history_history_action QCP$
> Ciclo 125. N_CALIB 1 N_HSITORY9
```

```
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
  1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
  1 scientific_calib_date        PSAL: 20161221125339
  1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
  1 scientific_calib_coefficient TEMP:
  1 scientific_calib_comment     TEMP:
  1 scientific_calib_date        TEMP:
  1 scientific_calib_equation    TEMP:
  1 history_institution IF
  1 history_history_step ARGQ
  1 history_history_date 20140619201947
  1 history_history_action QCP$
  2 history_institution IF
  2 history_history_step ARGQ
  2 history_history_date 20140619201947
  2 history_history_action QCF$
  3 history_institution IF
  3 history_history_step ARGQ
  3 history_history_date 20140619201947
  3 history_history_action QCC$
  4 history_institution IF
  4 history_history_step CORT
  4 history_history_date 20140620063337
  4 history_history_action QCP$
  5 history_institution IF
  5 history_history_step CORT
  5 history_history_date 20140620063918
  5 history_history_action QCP$
  6 history_institution IF
  6 history_history_step ARGQ
  6 history_history_date 20140715143611
  6 history_history_action QCP$
  7 history_institution IF
  7 history_history_step ARGQ
  7 history_history_date 20140715143611
  7 history_history_action QCF$
  8 history_institution IF
  8 history_history_step ARGQ
  8 history_history_date 20140715143611
  8 history_history_action QCC$
  9 history_institution IF
  9 history_history_step
  9 history_history_date 20140827170508
  9 history_history_action QC
> Ciclo 126. N_CALIB 1 N_HSITORY5
  1 scientific_calib_coefficient PRES: Surface pressure=0 dbar
  1 scientific_calib_comment     PRES: APEX float that not truncated n
  1 scientific_calib_date        PRES: 20161221125316
  1 scientific_calib_equation    PRES: PRES_ADJUSTED(cycle i)=PRES (cy
  1 scientific_calib_coefficient PSAL: alpha = 0.0267, tau = 18.6 and
```

```
1 scientific_calib_comment     PSAL: Salinity recomputed for pressur
1 scientific_calib_date        PSAL: 20161221125339
1 scientific_calib_equation    PSAL: PSAL re-calculated using PRES_A
1 scientific_calib_coefficient TEMP:
1 scientific_calib_comment     TEMP:
1 scientific_calib_date        TEMP:
1 scientific_calib_equation    TEMP:
1 history_institution IF
1 history_history_step ARGQ
1 history_history_date 20140715143632
1 history_history_action QCP$
2 history_institution IF
2 history_history_step ARGQ
2 history_history_date 20140715143632
2 history_history_action QCF$
3 history_institution IF
3 history_history_step CORT
3 history_history_date 20140716055803
3 history_history_action QCP$
4 history_institution IF
4 history_history_step CORT
4 history_history_date 20140716055057
4 history_history_action QCP$
5 history_institution IF
5 history_history_step ARGQ
5 history_history_date 20140715143632
5 history_history_action QCC$
```

Profile Quality Flag Assigment

```
%-------------------------------------------------------------------------
for icycle=1:size(Profs,2)

    PFLAG=str2num(Profs(icycle).pres_adjusted_qc');
    TFLAG=str2num(Profs(icycle).temp_adjusted_qc');
    SFLAG=str2num(Profs(icycle).psal_adjusted_qc');

    %PRESSURE
    s_FLAG=size(PFLAG,1);
    coef = find(PFLAG == 1 | PFLAG ==2 | PFLAG ==5 |PFLAG ==8);

    N = (size(coef,1)/s_FLAG(1,1)).*100;

    if N==0;
        Profs(icycle).profile_pres_qc='F';
    elseif  N>0 && N<25;
        Profs(icycle).profile_pres_qc='E';
    elseif N>=25 && N<50;
        Profs(icycle).profile_pres_qc='D';
    elseif N>=50 && N<75;
        Profs(icycle).profile_pres_qc='C';
    elseif N>=75 && N<100;
        Profs(icycle).profile_pres_qc='B';
```

```
            elseif N==100;
                Profs(icycle).profile_pres_qc='A';
            end

            %TEMPERATURE
            coef = find(TFLAG == 1 | TFLAG ==2 | TFLAG ==5 |TFLAG ==8);

            N = (size(coef,1)/s_FLAG(1,1)).*100;

            if N==0;
                Profs(icycle).profile_temp_qc='F';
            elseif  N>0 && N<25;
                Profs(icycle).profile_temp_qc='E';
            elseif N>=25 && N<50;
                Profs(icycle).profile_temp_qc='D';
            elseif N>=50 && N<75;
                Profs(icycle).profile_temp_qc='C';
            elseif N>=75 && N<100;
                Profs(icycle).profile_temp_qc='B';
            elseif N==100;
                Profs(icycle).profile_temp_qc='A';
            end


            %SALINITY
            coef = find(SFLAG == 1 | SFLAG ==2 | SFLAG ==5 |SFLAG ==8);

            N = (size(coef,1)/s_FLAG(1,1)).*100;

            if N==0;
                Profs(icycle).profile_psal_qc='F';
            elseif  N>0 && N<25;
                Profs(icycle).profile_psal_qc='E';
            elseif N>=25 && N<50;
                Profs(icycle).profile_psal_qc='D';
            elseif N>=50 && N<75;
                Profs(icycle).profile_psal_qc='C';
            elseif N>=75 && N<100;
                Profs(icycle).profile_psal_qc='B';
            elseif N==100;
                Profs(icycle).profile_psal_qc='A';
            end

        end

    end
    %------------------------------------------------------------------------
```

Some checks before writting the final file

```
    %------------------------------------------------------------------------
    %Verifica si es el mismo tama?o de los perfiles de RT para DMQC
    for i2=1:size(Profs,2)
```

```
if ne(length(Profs(i2).pres),length(Profs(i2).pres_adjusted))
    fprintf('ERROR DE FORMATO 1 - perfil %d\n',i2)
end
if ne(length(Profs(i2).psal),length(Profs(i2).psal_adjusted))
    fprintf('ERROR DE FORMATO 2 - perfil %d\n',i2)
end
if ne(length(Profs(i2).temp),length(Profs(i2).temp_adjusted))
    fprintf('ERROR DE FORMATO 3 - perfil %d\n',i2)
end
if ne(length(Profs(i2).temp),length(Profs(i2).psal)) | ne(length(Profs(i2).pre
    fprintf('ERROR DE FORMATO 4 - perfil %d\n',i2)
end
if ne(length(Profs(i2).pres_qc),length(Profs(i2).pres_adjusted_qc))
    fprintf('ERROR DE FORMATO QCF 5 - perfil %d\n',i2)
end
if ne(length(Profs(i2).psal_qc),length(Profs(i2).psal_adjusted_qc))
    fprintf('ERROR DE FORMATO QCF 6 - perfil %d\n',i2)
end
if ne(length(Profs(i2).temp_qc),length(Profs(i2).temp_adjusted_qc))
    fprintf('ERROR DE FORMATO QCF 7 - perfil %d\n',i2)
end
if ne(length(Profs(i2).temp_qc),length(Profs(i2).psal_qc)) | ne(length(Profs(i
    fprintf('ERROR DE FORMATO QCF 8 - perfil %d\n',i2)
end

%Verifica valor de la QC Flag
for i3=1:size(Profs(i2).psal_adjusted_qc,2)
    if ~strcmp(Profs(i2).psal_adjusted_qc(i3),'0') & ~strcmp(Profs(i2).psal_ad
        fprintf('ERROR DE FORMATO QC FLAG PSAL - perfil %d\n',i2)
    end

    if ~strcmp(Profs(i2).temp_adjusted_qc(i3),'0') & ~strcmp(Profs(i2).temp_ad
        fprintf('ERROR DE FORMATO QC FLAG TEMP - perfil %d\n',i2)
    end

    if ~strcmp(Profs(i2).pres_adjusted_qc(i3),'0') & ~strcmp(Profs(i2).pres_ad
        fprintf('ERROR DE FORMATO QC FLAG PSAL - perfil %d\n',i2)
    end

end
%Verifica HISTORY INSTITUTION
for i3=1:size(Profs(icycle).history_institution,3)
    if ~strncmp('IF',Profs(icycle).history_institution(:,:,i3)',2) & ~strncmp(
        fprintf('ERROR DE FORMATO HISTORY_INSTITUTION - perfil %d\n',i2)
        Profs(icycle).history_institution(:,:,i3)'
    end
end
%Verifica  N Calibraciones
if size(Profs(i2).scientific_calib_comment,3)~= size(Profs(i2).scientific_cali
    fprintf('ERROR DE FORMATO N_CALIB - perfil %d\n',i2)
end

%Verifica N History
if size(Profs(i2).history_institution,3)~= size(Profs(i2).history_action,3) |
```

```
            fprintf('ERROR DE FORMATO N_HIST - perfil %d\n',i2)
        end

    end
    s
```

```
        Undefined function or variable 's'.

        Error in Paso10_VerificaFormato (line 298)
        s
```

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