

Scoop Visual QC

The visual QC is the first step that allows to remove outlier and clean your dataset prior to any DM adjustment

Getting SCOOP

<http://www.argodatamgt.org/Documentation/Tools>

Argo floats data processing

- › Coriolis Argo floats data processing chain
<http://dx.doi.org/10.17882/45589>
- › Coriolis Argo floats data processing chain additional information
- › Scoop Argo visual quality control GUI
<https://doi.org/10.17882/48531>

Java code working on linux, windows, IOS

=> New release v1.4 soon available

Example of text file sent by Siv Lauvset

```

FLOAT_NAME      6903551
CYCLE_NUMBER    "2-107"
DOXY_ADJUSTED_ERROR    equivalent to 19.2 mbar
DOXY_ADJUSTED_QC      1
SCIENTIFIC_CALIB_EQUATION    "DOXY_ADJUSTED=A*DOXY+B; "
SCIENTIFIC_CALIB_COEFFICIENT    "A=1.064; B=0 "
SCIENTIFIC_CALIB_COMMENT    "Partial pressure corrected as a linear function of PPOX using continuous in-air
measurements as in Johnson et al (2015); PPOX converted from DOXY and DOXY_ADJUSTED converted from
PPOX_ADJUSTED; ERROR calculated as 2std(A) x 205mbar + 2mbar "
NOTES    "Missing Float profile(s) for station(s): 1 108. Software: SAGE-02 (https://github.com/SOCCOM-BGCargo/ARGO\_PROCESSING). On cycle 31 there is bad PSAL data between 854-1202 dbar. The DOXY data in this range
is therefore given a flag 4 "

CYCLE_NUMBER    2-5
PRES>1940
DOXY_ADJUSTED    FillValue
DOXY_ADJUSTED_ERROR    FillValue
DOXY_ADJUSTED_QC      4

CYCLE_NUMBER    31
PRES>854
PRES<1202
DOXY_ADJUSTED    FillValue
DOXY_ADJUSTED_ERROR    FillValue
DOXY_ADJUSTED_QC      4
```

```

FLOAT_NAME      6903551
CYCLE_NUMBER    "2-107"
DOXY_ADJUSTED_ERROR    equivalent to 19.2 mbar
DOXY_ADJUSTED_QC      1
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is therefore given a flag 4 "
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```

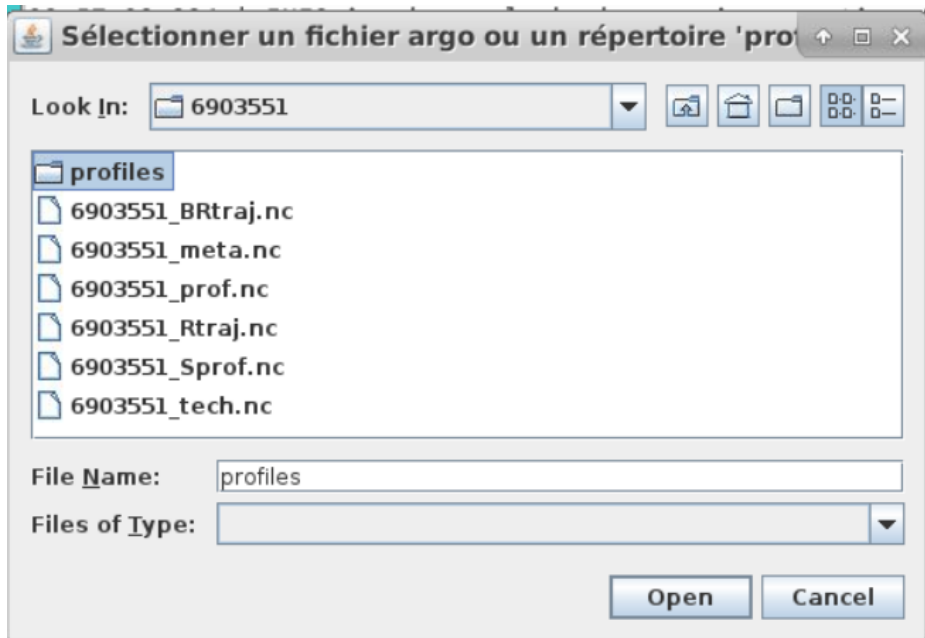
CYCLE_NUMBER    2-5
PRES>1940
DOXY_ADJUSTED    FillValue
DOXY_ADJUSTED_ERROR    FillValue
DOXY_ADJUSTED_QC      4
```

```

CYCLE_NUMBER    31
PRES>854
PRES<1202
DOXY_ADJUSTED    FillValue
DOXY_ADJUSTED_ERROR    FillValue
DOXY_ADJUSTED_QC      4
```

SCOOP part

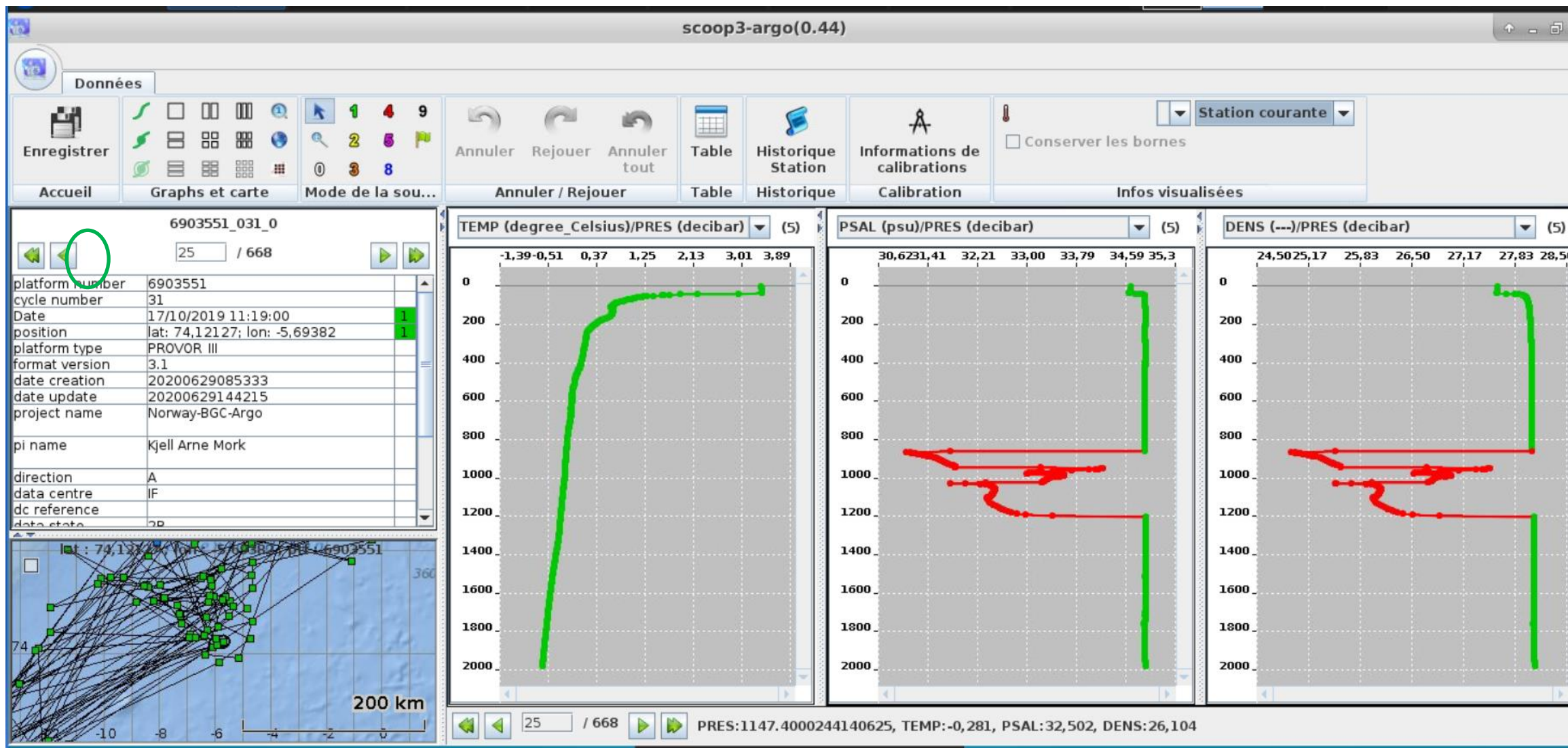
1. Fetch the full arborescence of float 6903551 <ftp://ftp.ifremer.fr/ifremer/argo/dac/coriolis/6903551>
2. `./scoop_argo.sh`
3. Navigate through your arborescence

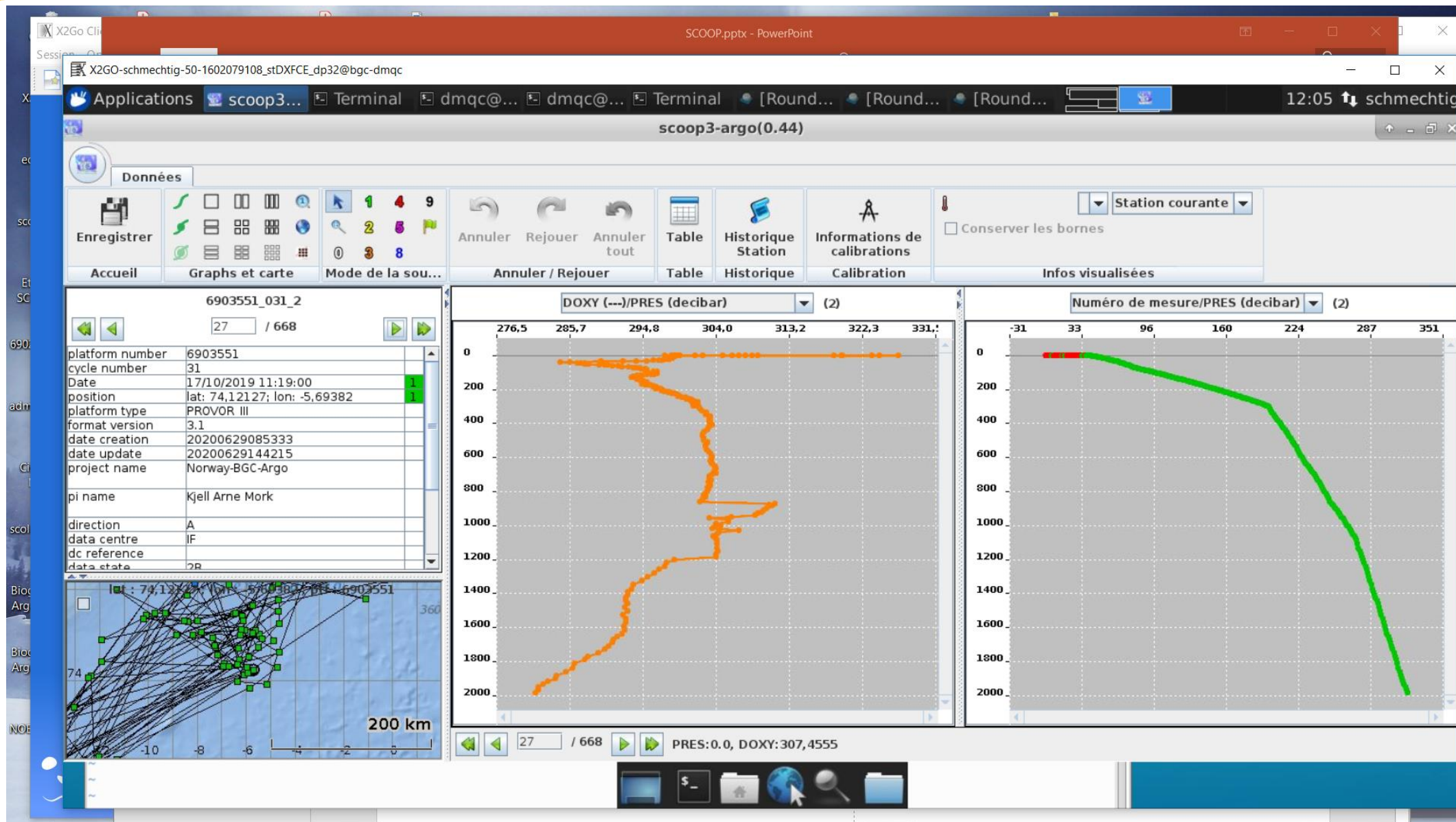


Tips for 2.

```
#!/bin/bash
SCOOP3_JAR=./scoop_argo/scoop3-argo-controller-0.44-
executable.jar
PROPERTIES=./properties
java -Xmx1024m -Doracle.net.tns_admin='/home/tnsnames' -cp
${PROPERTIES}:${SCOOP3_JAR}
fr.ifremer.scoop3.argo.application.ArgoApplication
```

Sometimes there is a need to allocate more memory (for example for large CTS4 floats , 1024 => 2048)





Station : 6903551_031_2

PRES	DOXY
798,5	302,75027
810,3	302,50174
822,3	302,29034
834,5	302,48569
846,9	302,14838
859,5	301,78995
870,1	311,13666
878,1	310,43237
886,3	310,75342
894,8	310,20807
903,2	310,09866
911,8	309,73465
920,7	309,50928
929,7	308,97336
939	308,65955
948,5	305,75119
958,3	303,03558
968,2	305,35095
978,3	305,34482
988,5	303,85202
998,9	304,38446
1009,5	303,64935
1020,1	303,33844
1031	306,689
1042	304,16187
1053,2	303,98413
1064,7	303,43967
1076,1	303,71368
1087,9	303,97247
1109	303,90497
1133,5	303,9201

200 km

Valider Annuler Fermer

Données

Enregistrer

Accueil

Gra

platform number 6903

cycle number 31

Date 17/1

position lat: 74

platform type PROV

format version 3.1

date creation 2020

date update 2020

project name Norw

pi name Kjell

direction A

data centre IF

dc reference

data state 2B

Station : 6903551_031_2

PRES	DOXY
846,9	302,14838
859,5	301,78995
870,1	311,13666
878,1	310,43237
886,3	310,75342
894,8	310,20807
903,2	310,09866
911,8	309,73465
920,7	309,50928
929,7	308,97336
939	308,65955
948,5	305,75119
958,3	303,03558
968,2	305,35095
978,3	305,34482
988,5	303,85202
998,9	304,38446
1009,5	303,64935
1020,1	303,33844
1031	306,689
1042	304,16187
1053,2	303,98413
1064,7	303,43967
1076,1	303,71368
1087,9	303,97247
1109	303,90497
1133,5	303,9201
1150,2	304,05026
1166,6	303,82623
1183,8	303,77969
1201,8	298,58994
1220,5	297,64072
1239,9	297,4809

PRES:0,0, DOXY:307,4555

Changer QC - QC 0 Non contrôlé

Changer QC - QC 1 Bon

Changer QC - QC 2 Moyen


Changer QC - QC 3 Douteux

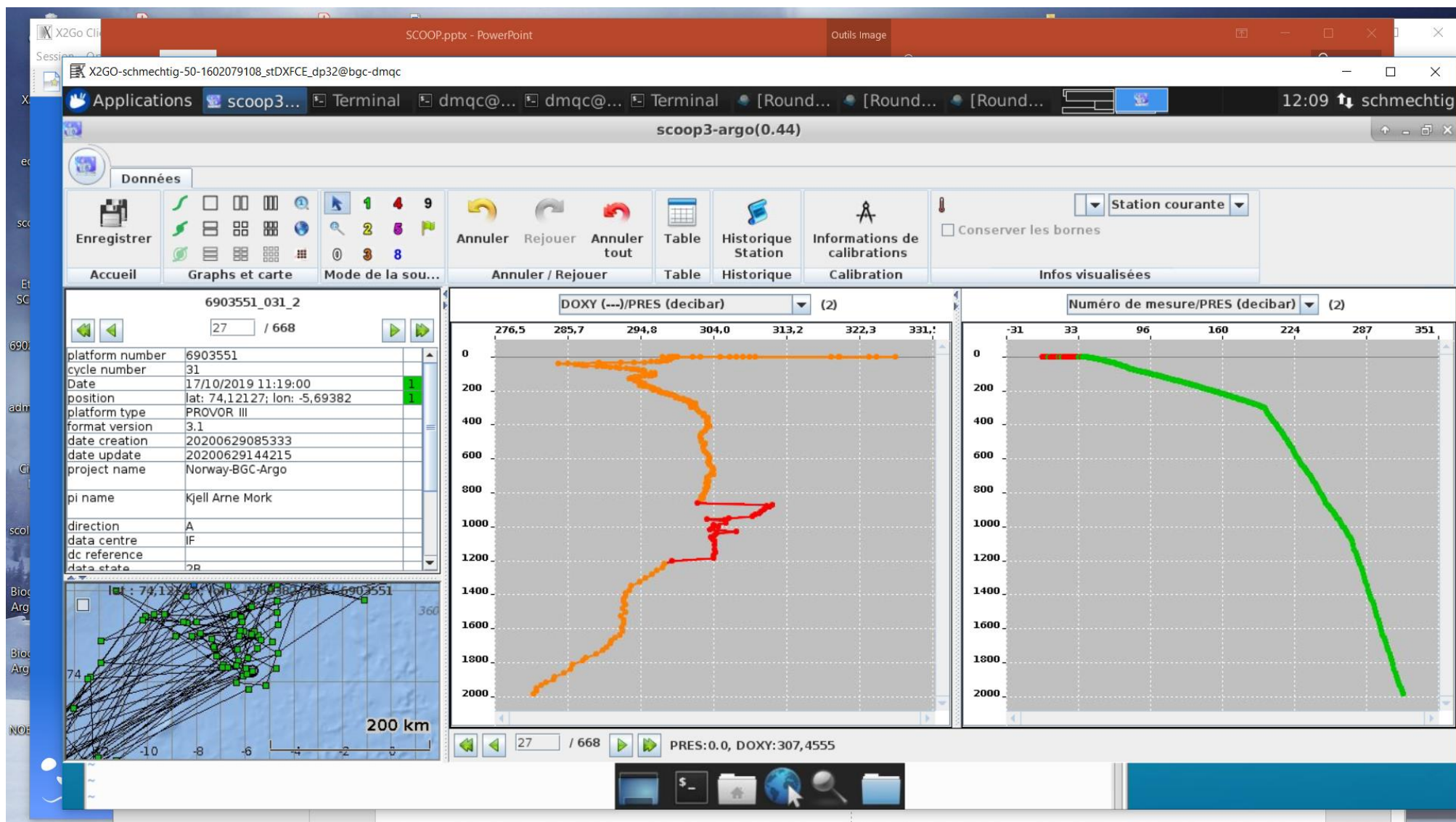
Changer QC - QC 4 Mauvais

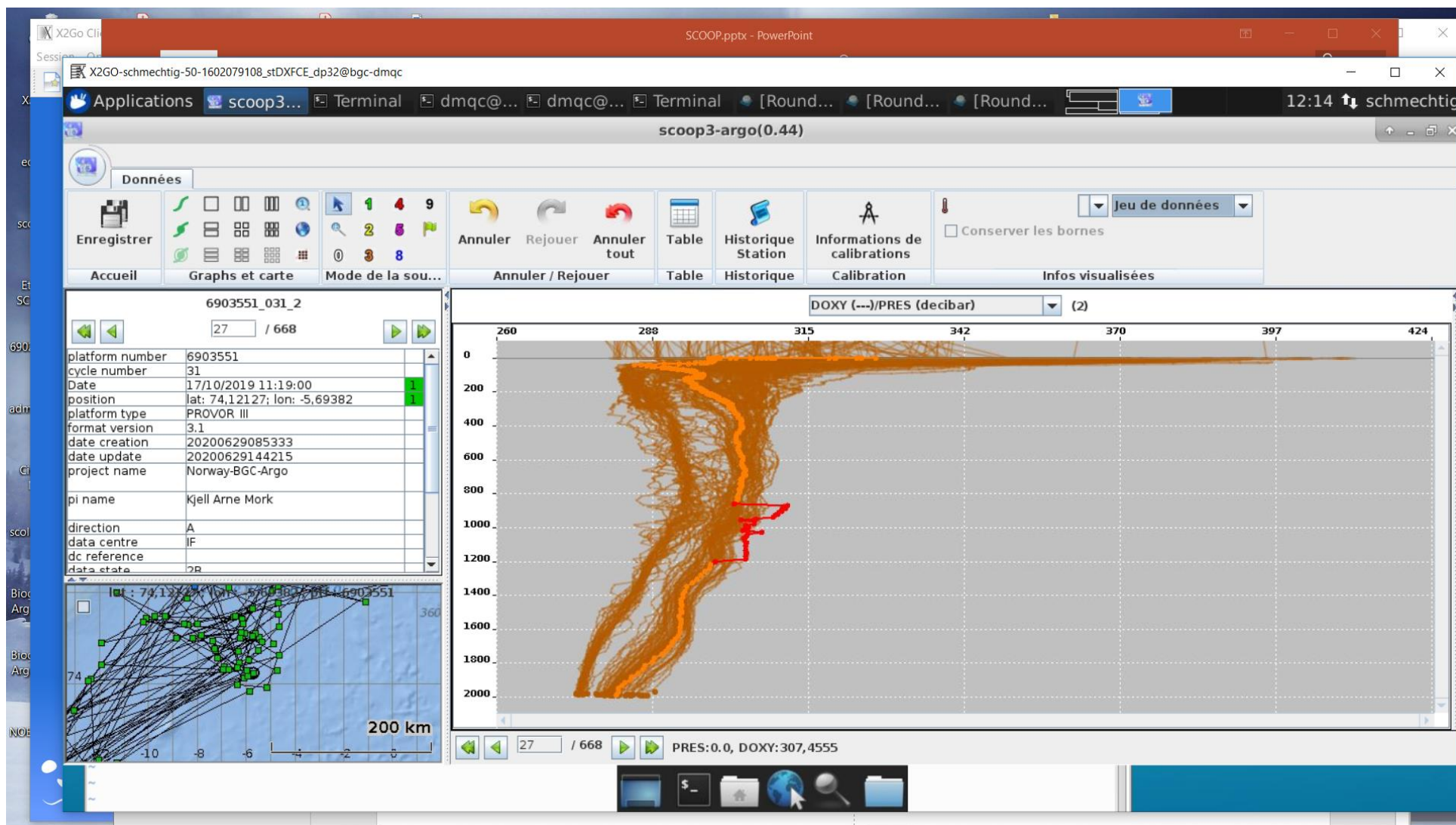
Changer QC - QC 5 Modifié

Changer QC - QC 8 Extrapolé

Changer QC - QC 9 Absence de valeur

 Copier toutes les lignes dans le presse papier





All the modifications made with scoop will be reported in the Bfile.
And now we're ready to apply a DM adjustment