NITRATE DM Feedback

STATEMENT :

34 NITRATE Floats Dmoded this summer at Coriolis

=> different places : Mediterranean Sea, South Atlantic, Pacific, North Atlantic…

=> 8 floats with a depth/surface issue

STRATEGY

1. Use wl=210 and the New Temp correction

2. Calculate the new NITRATE

3. Adjust it at depth with DOXY_ADJUSTED and CANYON_B

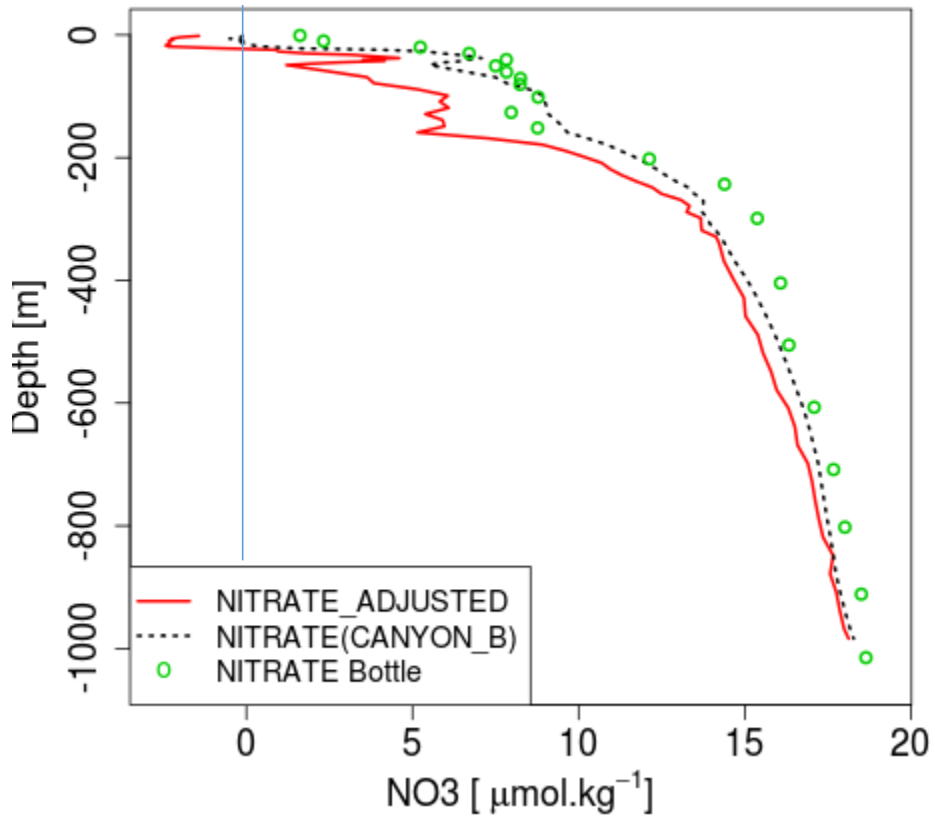
4. Correct files with this adjustment

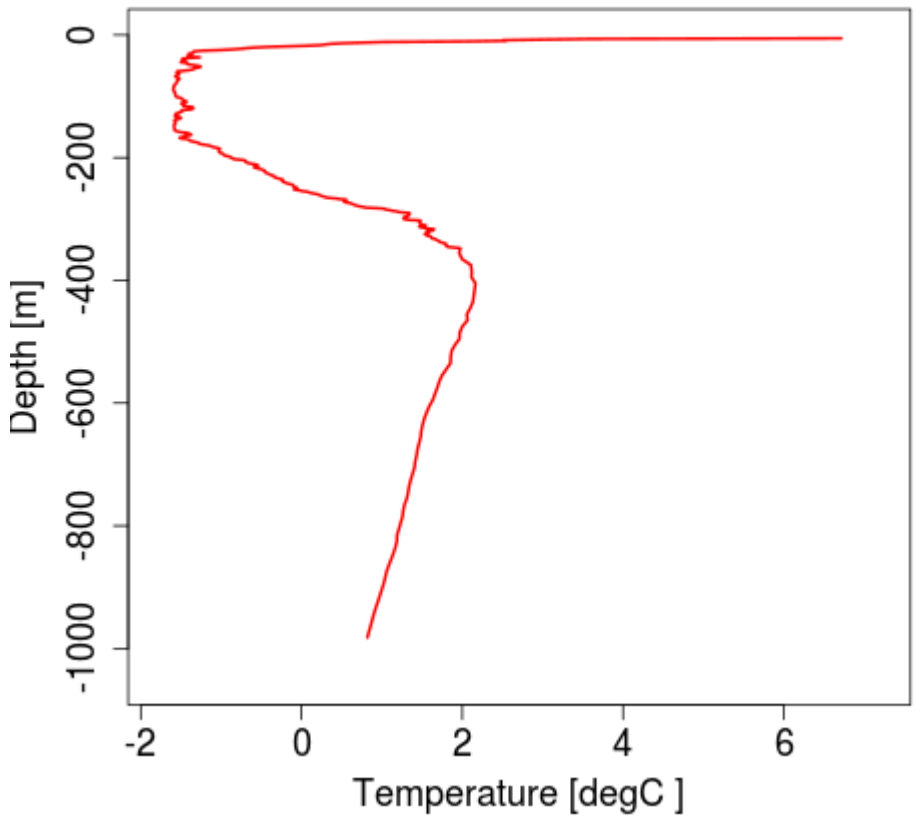
5. Compare NITRATE_ADJUSTED and CANYON_B

6. Check that CANYON-B vs in-situ data (J-E Tremblay data from GREENEDGE cruise)

7. Compare NITRATE_ADJUSTED with a gain and CANYON_B

Simple adjustment ~-2 for the whole float life at surface



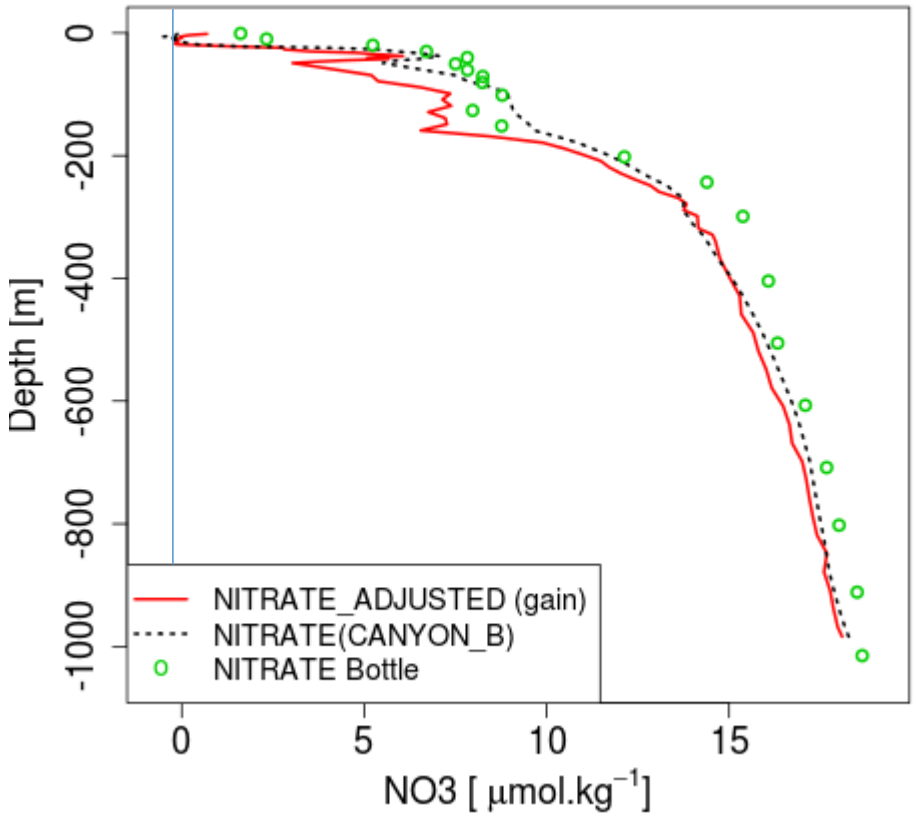


Bottle data are from the Greenedge cruise (J-E. Tremblay), GE2016 – 718 10 July 2016 Lat : 69.5 Lon : -63°

Profile data Cycle 30 float 6902967 12 August 2019 Lat : 69.06 Lon : -62.56°

TEMPORARY SOLUTION

Adjustment with a gain 0.89



Guidances ?

About the gain…

-What values of gain are reasonable ?

-Should we specify ways to determine it ?

-Should we express a common SCIENTIFIC_CALIB_EQUATION with a gain for NITRATE
(following Henry's strategy to get a common equation for DOXY)

-Is there also additional correction to apply ?