

CHLA

On Argo ADMT Website

<http://www.argodatamgt.org/Documentation/Draft-documents>

Bio-Argo manuals

Processing bio-Argo chlorophyll a concentration at the DAC level <http://dx.doi.org/10.13155/39468>

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

Quality control

Bio-Argo quality control manual for Chlorophyll-A concentration, version 1.0, December 2014:

<http://dx.doi.org/10.13155/35385>

In the processing documentation (new)

First case, a DARK_CHLA_O, is provided

PREDEPLOYMENT_CALIB_EQUATION=” CHLA =
(FLUORESCENCE_CHLA – DARK_CHLA_O) * SCALE_CHLA”

PREDEPLOYMENT_CALIB_COEFFICIENT=”SCALE_CHLA=0.007,
DARK_CHLA=50, DARK_CHLA_O=51”

Second case, a DARK_CHLA_O is not provided:

PREDEPLOYMENT_CALIB_EQUATION=” CHLA =
(FLUORESCENCE_CHLA – DARK_CHLA) * SCALE_CHLA”

PREDEPLOYMENT_CALIB_COEFFICIENT=”SCALE_CHLA=0.007,
DARK_CHLA=50”

PREDEPLOYMENT_CALIB_COMMENT="No DARK_CHLA_O provided"

In the processing documentation (new)

CONFIG_EcoChlaFluorescenceExcitationWavelength_nm=470

CONFIG_EcoChlaFluorescenceEmissionWavelength_nm=695

CONFIG_EcoVerticalPressureOffset_dbar=0.1

Summary of the RT QC document

- ✓ CHLA =0 at Depth (limitation : Mixed layer , Minimum oxygen zone)
- ✓ Sensor Failure
- ✓ Range Test
- ✓ Spike Test
- ✓ Non Photochemical Quenching