

How to fill BD- files

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- 1. Philosophical format discussions**
- 2. Suggestions for filling the
SCIENTIFIC_CALIB section for DOXY**

1. Philosophical format discussions for all biogeochemical data

When delayed-mode calibration for a PARAM becomes available, these are the compulsory variables to fill ...

PARAM_QC

PROFILE_PARAM_QC

PARAM_ADJUSTED

PARAM_ADJUSTED_QC

PARAM_ADJUSTED_ERROR

PARAMETERS

SCIENTIFIC_CALIB_EQUATION

SCIENTIFIC_CALIB_COEFFICIENT

SCIENTIFIC_CALIB_COMMENT

SCIENTIFIC_CALIB_DATE

Plus others (DATA_MODE, PARAMETER_DATA_MODE, DATA_STATE_INDICATORS, DATE_UPDATE, HISTORY ... etc)

STATION_PARAMETERS(N_PROF, N_PARAM, STRING64)

is the list of all parameters in the file. In the B-file ...

- 1. PRES:** no qc or adjusted variables allowed.
- 2. B-Argo parameters:** all 5 qc and adjusted variables must exist.
- 3. I-Argo parameters:** qc and adjusted variables optional. File size is an issue. Some DACs choose to keep PARAM_QC.

PARAMETER (N_PROF, N_PARAM, STRING64)

is in the SCIENTIFIC_CALIB section.

In the core- file:

Every parameter in STATION_PARAMETERS is listed in PARAMETER. When no calibration is available (e.g. TEMP, or 'R'-mode), each SCIENTIFIC_CALIB field records 'none', or FillValue.

In the b- file:

To list or not to list is a philosophical issue. Space in file is already set. Many DACs have already created BR- files with PARAMETER filled.

Suggestion for PARAMETER and SCIENTIFIC_CALIB in B-file

For **BR- files**, leave PARAMETER and SCIENTIFIC_CALIB fields empty.

(Current BR- files can continue to exist.)

For **BD- files**, list the calibrated parameters in PARAMETER and fill their SCIENTIFIC_CALIB fields as calibrations become available.

(So, PRES will never be in PARAMETER.)

2. Suggestions for filling the SCIENTIFIC_CALIB section for DOXY

..... Henry