

Cast Scalar Profile Plot and Data

Quality Control

Data Product Options

Sensors to include: Corrected Original

Quality Control: Clean Data Raw Data

File / plot breaks:

Data Product Options

Quality Control: Pre-processed cleaned corrected data (uses raw QAQC filter as pass through only)

File / plot breaks:

Raw Data

When this option is selected, raw data will be supplied in the data products: no action is taken to modify the data. In general, all scalar data is associated with a [quality control flag](#). These flags are stored adjacent to the data values.

Oceans 2.0 API filter: `dpo_qualityControl=0`

Clean Data

Selecting this option will cause any data values with quality control failures ([QAQC flags 3, 4 and 6](#)) to be replaced with NaNs. “-clean” is added at the end of the filename.

Oceans 2.0 API filter: `dpo_qualityControl=0`

Pre-processed clean corrected data (uses raw QAQC filter as pass through only) *(Only available on corrected profilers and on corrected sensors only)*

There is no quality control option when corrected is chosen for the sensors to include option. The corrected data has already processed and cleaned, so the raw QAQC option is used as a pass-through. [Contact us](#) for more information on the processing done to clean and correct cast data from mobile deployments.

Oceans 2.0 API filter: `dpo_qualityControl=0`

Sensors to Include (Device-level Only)

Data Product Options

Sensors to include: Corrected Original

Quality Control: Pre-processed cleaned corrected data (uses raw QAQC filter as pass through only)

File / plot breaks:

Corrected

A corrected version of the original sensor data that has been re-calculated to factor in variables such as falling speed to improve accuracy. “-Corrected” is added at the end of the filename. Sensors without “Corrected” in their names are excluded from the device-level data products.

Oceans 2.0 API filter: `dpo_sensorstoinclude=1`

Original

The original sensor data, excludes all sensors with “Corrected” in their name.

Oceans 2.0 API filter: `sensorstoinclude=0`

File / Plot Break

Data Product Options

Sensors to include: Corrected Original

Quality Control: Clean Data Raw Data

File / plot breaks: ▼

- Daily
- None (files break on size limits only)

Daily

The time range specified will be broken up daily and a plot will be produced for each day. The break time is not strictly midnight, it is 0800 UTC (midnight PST, 0100 PDT).

Oceans 2.0 API filter: `dpo_fileplotbreaks=1`

None (files break on size limits only)

The time range specified will only be broken up if it exceeds the file size limit (1 GB when loaded into matlab: 400 to 600 MB MAT file).

Oceans 2.0 API filter: `dpo_fileplotbreaks=0`

Cast Delineation / Breaks:

Up casts only

Only data collected while the profiler is ascending the water column are selected. Individual up casts are identified and stored separately within one final data structure for file data products. A plot be produced for each day consisting of all up casts that began during that day. The break time is not strictly midnight, it is 0800 UTC (midnight PST, 0100 PDT).

Oceans 2.0 API filter: `dpo_cast=up_casts`

Down casts only

Only data collected while the profiler is descending the water column are selected. Individual down casts are identified and stored separately within one final data structure. The time range specified will be broken up daily and a plot will be produced for each day consisting of all down casts that began during that day. The break time is not strictly midnight, it is 0800 UTC (midnight PST, 0100 PDT).

Oceans 2.0 API filter: `dpo_cast=down_casts`

Stepped casts only

Only data collected while the profiler is stepped mode are selected (currently unique to VPS). Individual stepped casts (all up casts and stationary segments during a stepped cast) are identified and stored separately within one final data structure. Individual plots will be produced for each stepped cast.

Oceans 2.0 API filter: `dpo_cast=stepped_casts`

All casts

Only data collected while the profiler is ascending, descending, or stationary in the water column are selected. Individual casts (up, down, stationary) are identified and stored separately within one final data structure. The time range specified will be broken up daily and a plot will be produced for each day consisting of casts (up, down, stationary) that began during that day. The break time is not strictly midnight, it is 0800 UTC (midnight PST, 0100 PDT).

Oceans 2.0 API filter: `dpo_cast=all_casts`

Daily

The time range specified will be broken up daily and a plot will be produced for each day. The break time is not strictly midnight, it is 0800 UTC (midnight PST, 0100 PDT).

Oceans 2.0 API filter: `dpo_cast=daily`

None (files break on size limits only)

The time range specified will only be broken up if it exceeds the file size limit (1 GB when loaded into matlab: 400 to 600 MB MAT file).

Oceans 2.0 API filter: `dpo_cast_none`

