

Establishing new glider observatories: in search of processing best practices

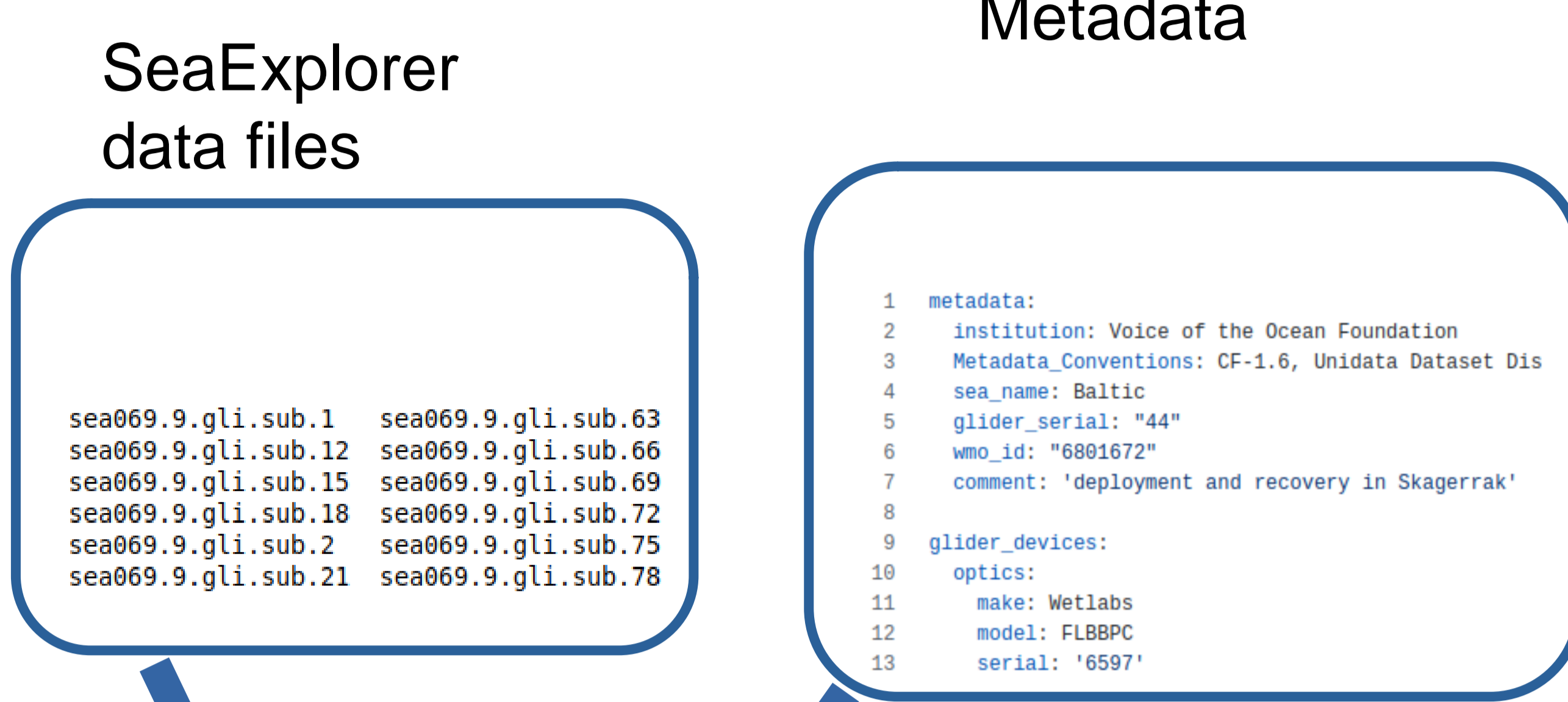
Callum Rollo, Olle Petersson, Louise Biddle

Voice of the Ocean Foundation

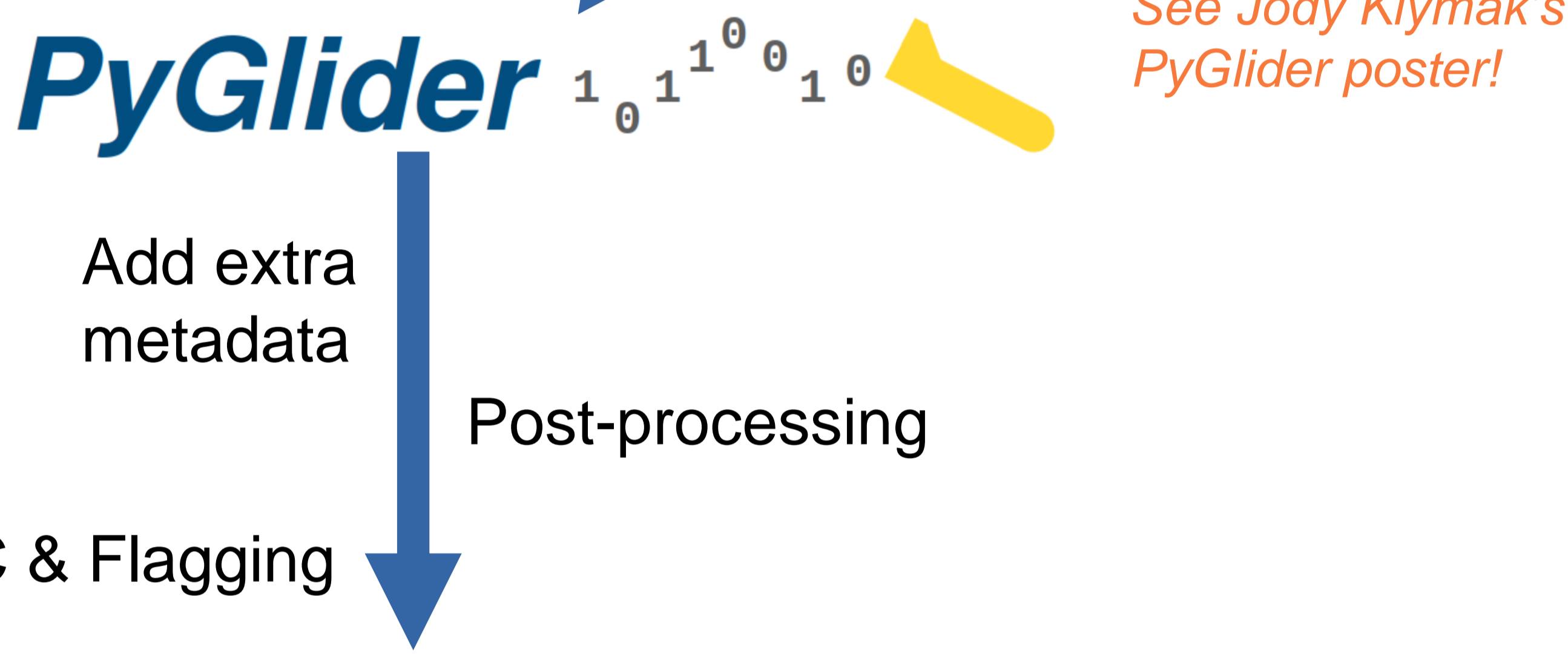
callum.rollo@voiceoftheocean.org

Processing overview

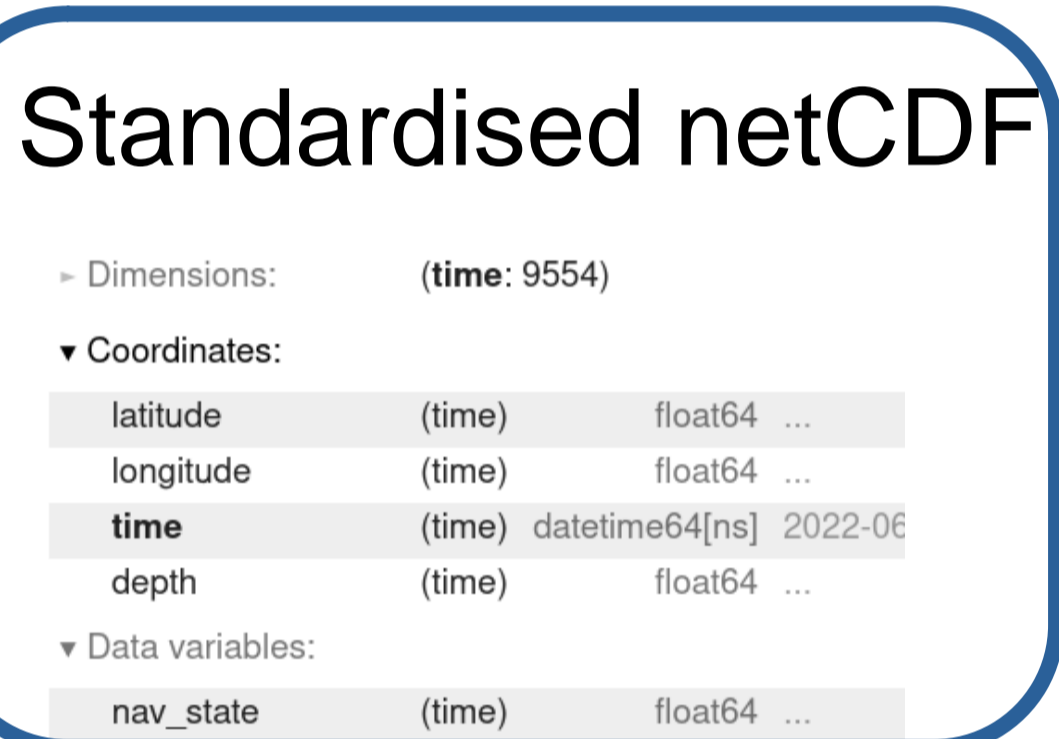
1. Inputs



2. Processing



What QC method to use?



3. Distribution



ERDDAP > List of All Datasets

117 matching datasets, listed in alphabetical order.

Grid DAP	Sub-set	Table DAP	Make A M S	W Data	Source Data Files	Title	Summary	FGDC, ISO, Metadata
set	data	graph			files	* The List of All Active Datasets in this ERDDAP *		F I M
set	data	graph			files	Aster68-20220727T1709		

<https://erddap.observations.voiceoftheocean.org/erddap>

ERDDAP federation?

5. Analysis

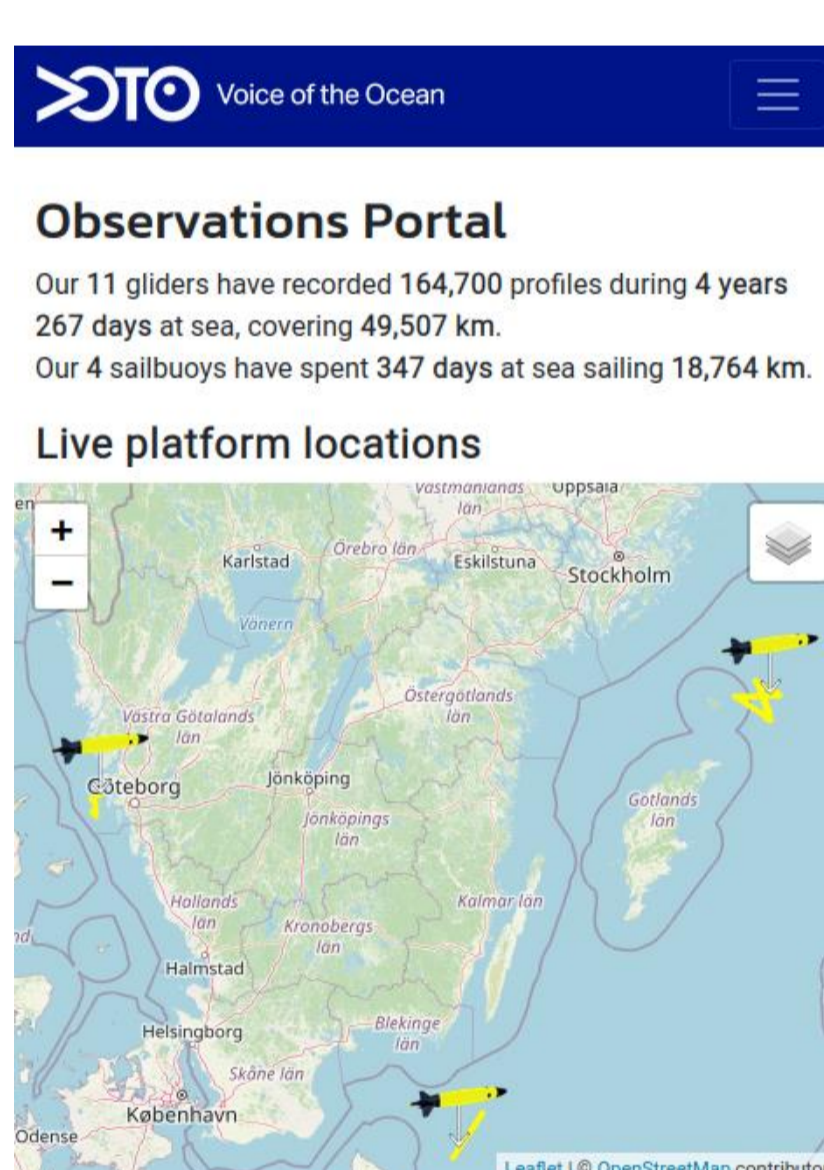
Direct download:
.nc, .csv, .mat, json,
.odv, html, many more

Dataset subscription/
notifications

Jupyter notebooks
Erddapy
Example analysis

How to make
exploration/ analysis
easier?

4. Exploration



<https://observations.voiceoftheocean.org>

Observations portal

- Near real time data plots
- Live platform locations
- Overview statistics

Features

Talk to me about ERDDAP and data processing!



NRT data available within 30 mins of transmission

Efficient distribution with ERDDAP

Minimal human input: one metadata file per deployment

Automated (re)processing

Example data analysis notebooks for non-experts

Goals

- Adopt OG1.0 format
- Connect to other ERDDAPs
- Implement Ocean Best Practices recommended variable processing
- Data flagging

Remaining questions

- What QC to apply?
- Pathway to GTS
- Adding more complex data variables e.g. ADCP
- Interoperability of datasets
- Aligning with FAIR

Observations portal

<https://observations.voiceoftheocean.org>

ERDDAP

<https://erddap.observations.voiceoftheocean.org/erddap>

Demo notebooks

https://github.com/voto-ocean-knowledge/download_glider_data

This poster

https://callumrollo.github.io/images/ug2_2022.pdf

All links:



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