OOI Data Bus

Legend:
- ● Current best method
- ○ Coming soon
- ◑ Phasing out

Column descriptions:
- **Raw Data Archive:** Raw instrument and engineering datasets presented in an Apache file system structure for download.
- **Thredds:** Pre-computed scientific numerical data products with calibrations applied alongside engineering data. Full resolution datasets are accessible by deployment and stream.
- **DataExplorer:** Primary gateway to visualize and access OOI data. Search across data points, download full datasets using ERDDAP, compare datasets across regions and disciplines, and generate shareable custom data views.
- **ERDDAP:** Underlying data server for Data Explorer providing access to ~600 datasets organized by OOI arrays. Download datasets in common file formats and make graphs and maps.
- **M2M:** Access to science and engineering data using both synchronous and asynchronous interfaces. NetCDF and JSON files are the standard outputs.
- **OOI Website:** Oceanobservatories.org provides access to datasets compiled by Principal Investigators who have added instruments onto OOI arrays.
- **Alfresco:** Document repository for instrument vendor information including calibrations.
- **Jupyter Hub:** Hosted by OOI, this hub provides access to full resolution datasets and raw data server, allowing users to share notebooks and process data in a larger server environment.
- **DataExplorer Media:** Preview HD Photo, HD Video, visualized Hydrophone and ZPLS data along side science data in the Data Explorer tool.
- **OOINET:** Legacy access to scientific and engineering data with the ability to search and plot data for review. Download requests are queued for system processing. User will be notified when download is ready. This interface will be slowly phased out.

Data Type / Source	Raw Data Archive	Thredds	DataExplorer	ERDDAP	M2M	OOI Website	Alfresco	Jupyter Hub	DataExplorer Media	OOINET
Numerical Raw Data	●		○					●		
Processed Data Sets (NetCDF)		●	●	●	●			●		◑
Provenance data (JSON)		●	●		●			●		◑
Asset information						●	●			
Hydrophone	●							●	○	
Realtime data plots			●							◑
ZPLS data	●							●	●	
PI Data			●			●				
HD Video	●							●	●	
HD Photo	●							●	●	