Argo in the Caribbean

Emily A. Smith, PhD
US Argo Program Manager
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Argo Program

- 10 day
- 1000 dbar parking depth
- 2000 dbar sampling depth for temperature and salinity
- Long-term and sustained
- **Full depth and multi-disciplinary**
Argo in the Caribbean

Location of Reported Argo Profiles: Jan 1 through May 1, 2023

Float Deployer
- WHOI - NOAA (564)
- WHOI - UGOS (393)
- Other USA (157)
- Other Nations (368)

Patricia Robbins, WHOI Argo: 04-May-2023
Annual Average Argo Coverage

2019

2020

2021

2022
Real-time array monitoring  - Real-time data sharing with all nations

https://fleetmonitoring.euro-argo.eu/
Access to data, documentation, FAQs, tools and data products

Argo data sources

There are many sources of Argo data depending on the desired format, source and applications. Browse through the different options below to learn more. Some of the ways listed below are maintained by the Argo Program and Argo Data Management Teams, while some are created and hosted by others, but highlighted here.

If you use any Argo data, please cite the Argo DOI:

https://argo.ucsd.edu/

Argo data files

- Geographic profiling, maps and technical data files.
- Real-time and delayed mode quality controlled data available
- Maintained by Argo Data Management Team
- Server at GDAAC via ftp, http, ssh, scp, telnet, rlogin, rsh, rcp
- Data in NetCDF format
- Selection tools available
- Auxiliary Directory at GDAAC to access supporting data
- Argo Archive at NCDC

GTS data stream

Real-time Argo data can be accessed on the GTS for operational purposes, gather within 12 hours of the observation for use in their forecasting and predictions models.

- GTS Argo profiles only
- Raw time quality controlled Argo data
- On-demand access using FTP
- Maintained by Argo Data Management Team

Software tools

An array of tools have been developed aimed at both beginners and experts to help users gather, manipulate, visualize and quality control Argo data.

- Software tools
- Quick start guide
- Argo Data Tools repository
- Argos MDM/WHOI repository
- Argos WHOI repository
- Access Argo quality data online in Argo and through interactive online tools.
- Software in the WHOI format

Visualizations and web applications

This collection of websites and tools allow non-experts and scientists alike to quality look at Argo data plots, terms listed below are not present in all of these.

- New Argos profile visualization, maps, technical and quality data
- Argo profile snapshots available
- Provided by people clearly involved in the Argo by people outside of Argo
- Access Argo profile data in DCDS
- AV access to created Argo profile validated
- Monitor Argos measures

Model outputs and reanalysis products

Argo is the primary source of subsurface ocean data at operational centers around the world. Argo data is assimilated in either real time or in hindcast products.

- Not maintained by Argo
- Data often in WHOI format

Data visualizations

Sometimes accessing and deciphering the raw data available Argo data files in NetCDF format can be difficult (see the quick start guide to get started for those not familiar with the format). To use the data, there are many data streamers that are maintained.

- Argo profile data, several visualizations and web applications have been developed to help a wide range of users access and view Argo data. Browse through the links below to learn more about the available options. If you have a way to visualize Argo data that you would like added to the list below, email argo@ucsd.edu.

Compare visualization features here

<table>
<thead>
<tr>
<th>Visualization</th>
<th>Description</th>
<th>Target Audience</th>
<th>Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argo Visualizations</td>
<td>Visualizations, temperature, salinity and BODO data located at argo.ucsd.edu or access data via an API, view flow trajectory animations, compare grid fields with Argo's grid visualization module or create a custom Argo data product with Atmospheric Rivers. Stay tuned for additional modules using satellite and other ocean science datasets. Here are the recipients' pages to find more information on its features.</td>
<td>Public, educators, Argo community, scientific community</td>
<td>Global</td>
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<tr>
<td>Curiosity Dashboard</td>
<td>Get technical with the site used frequented by the Argo community, Curiosity Dashboard. Click on a facet to pull up metadata, technical information and access to real data. There are many search options including by mission, program, transmission system, sensor, etc. Make plots or at performance evaluations based on your selection or view data maps and indicators produced monthly. Includes data figures produced by thresher and shown on several other visualizations</td>
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<td>Global</td>
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<td>OceanSIPS Dashboard</td>
<td>The Global Marine Argo Atlas makes it easy for users to look at Argo data and compare it to other global data sets on one easy-to-use program. The atlas, created in very high resolution/depth displays, particularly Argo's. Replot SOS and Argo assimilations, comes with the data already included and can be easily scaled to view new data as it becomes available. Note: data on the site is downloaded and the large dataset takes a few days. The western version uses an older version of the gridding program and no longer has full capability for some difficult computations. Please consider Argo's grid visualization module instead.</td>
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<td>MoRe OceanAtlas</td>
<td>The Euro-Argo dashboard provides an interactive map interface that features metadata and technical data used mostly by the Argo community, but also data providers, users and data providers. Users can select specific Argo data sets and view data maps and indicators produced monthly. Includes data figures produced by thresher and shown on several other visualizations</td>
<td>Public &amp; educators</td>
<td>Global</td>
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<td>Argo Core Dashboard</td>
<td>The Argo Core dashboard provides an overview of the Argo data on offer, specifically scientific data used by the Argo community, but also data providers, users and data providers. Users can select specific Argo data sets and view data maps and indicators produced monthly. Includes data figures produced by thresher and shown on several other visualizations</td>
<td>Argo community</td>
<td>Global</td>
</tr>
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<td>OceanExplorer</td>
<td>If you are an ocean, coastal, or climate researcher, you will find this site very useful. OceanExaminer is a one-stop-shop for anyone looking to access global ocean data. This site offers access to thousands of datasets, covering a wide range of marine variables, from temperature and salinity to chlorophyll concentration. Use the search bar to find the dataset you need, and browse through the results to find the information you're looking for.</td>
<td>Public &amp; educators</td>
<td>Global</td>
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Argo data users

We would love to hear about anyone in the region using the data and how you are finding/accessing it!!

Email: Susan Wijffels at swijffels@whoi.edu