Argo in the Caribbean

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Emily A. Smith, PhD US Argo Program Manager May 8, 2023





Argo Program

• 10 day

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- 1000 dbar parking depth
- 2000 dbar sampling depth for temperature and salinity
- Long-term and sustained
- **Full depth and multidisciplinary





Argo in the Caribbean

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Pelle Robbins, WHOI Argo: 04-May-2023



Annual Average Argo Coverage

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WHOI Argo:05-May-2023

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Everywhere

Parameters

BBP470

BBP532

BBP700 CDOM

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View



Export



59°F Sunny

Leaflet | World Imagery Tiles © Esri

8 de

11:20 AM

5/5/2023

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

Department of Commerce | National Oceanic and Atmospheric Administration

104,94141



Deployment Latitude

25.0376

RV PELICAN

Argo WHOI

Ship

Project

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Active	6.53 years old
Last station date	Cycle
28/04/2023	287
09:55:58	
Last Surface Data	
1.04 dbar 26.285	°C 36.346 PSU

Last Bottom Data

2007.64 dbar 4.288°C 34.973 PSU



HELP



11:22 AM

Leaflet | World Imagery Tiles © Esri

Depth : 0 m

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500 m

Department of Commerce | National Oceanic and Atmospheric Administration

Deployment Longitude

Principal Investigator

BRECK OWENS.

STEVEN JAYNE.

-95.4015

Cruise

WMO	Platform make
4902350	MRV
Inst reference	Platform type
7369	S2A
Transmission system	PTT
IRIDIUM	n/a
Owner	Data Centre
BRECK OWENS,	AOML
STEVEN JAYNE,	
P.E. ROBBINS	

ARGO MONITORING

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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 application. 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 Team, while some are created and hosted by others, but highlighted here.

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

Argo data files GTS data stream

· Argo profile, trajectory, meta and technical data files · Real time and delayed mode quality controlled data available

- · Maintained by Argo Data Management Team · Served at Argo GDACs via ftp, http,
- rsync, DOI, errdap, thredds

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- Data in NetCDE format Selection tools available
- · Auxiliary directory at GDACs to access
- experimental data
- Argo Archive at NCEI
- Argo data products
- · Products using Argo data and sometimes other data sources Gridded products of temperature. salinity, mixed layer depth, etc. Curated profile collections Velocity products data often in NetCDF format sometimes in other formats
- · Not maintained by Argo Data Management Team
- View Areo profile, trajectory, meta. technical and gridded data · Save Argo data and/or plots · Hosted by people directly involved in
 - Access Argo profile data in JSON API access to curated Argo profile database Monitor Argo statistics

are not present in all tools.

Software tools

Real time Argo data go out on the GTS for An array of tools have been developed operational centers to gather within 12 aimed at both beginners and experts to hours of the observation for use in their help users gather, manipulate, visualize and quality control Argo data.

> Software tools Ouick start guide Data FAO

- Argo DMQC GitHub repository Argo RTOC GitHub repository
- · EuroArgo GitHub repository
- · Developed by both people involved in Argo and those outside of it

Model outputs and

reanalysis products Argo is the primary source of subsurface ocean data at operational centers around the world. Find out which centers assimilate data and what types of data are

· Not maintained by Argo · Data often in NetCDF format

Argo and by people outside of Argo

available.

https://argo.ucsd.edu/

Data visualizations

Sometimes accessing and decoding the freely 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 or how to use the data. While there are existent data viewers like Ocean Data View (ODV) and Java Ocean Atlas (IOA) that can read in 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 table below to learn more about the available options. If you have a way to visualize Argo data that you would like added to the table below, email argo@ucsd.edu.

Compare visualization features here

Visualization	Description	Target Audience	Region
Argovis	Visualite temperature, salinity, and BGC data by location at aggins colorado adu or access data via an API. View float trajectory forecasts, compare gridded fields with Argovis grid visualization module or co-locate Argo data with nompheric Rivers. Say tuned for additional modules using satellite and other Earth Science datasets. See the Argovis quickstart page for more information on its features.	Public, educators, Argo community, scientific community	global
EuroArgo Selection Tool	The EuroArgo Selection Tool provides an interactive map interface that allows users to click on individual float locations and to make regional selections. There are also options to select what parameters users would like, the data quality mode and time period of Interset. Users can select to download the data chosen in csv, Argo netCDF or Copernicus netCDF format.	Public, educators, Argo community, scientific community	global
OceanOPS Dashboard	Get technical with the site used frequently by the Age community, Ocean075 Dashband Click on a float to pull un mediatal, technical information and access to float diat. There are many search options including by mission, program, transmission system, sensor, etc. Make plots or look at performance indicators based on your selection or view static maps and indicators produced monthly. Includes data figures produced by lifemer and shown on several other visualizations	Argo community, governmental agencies	global
Global Marine Argo Atlas	The Global Marine Argo Alas makes it easy for users to look at Argo data and compare it to other global data sets in one free program. The Alas, make to view gridded netCDF datasets, particularly Argo, provide SST and Arkova sittemizy, comes with the data already included and can be updated quarterly to receive new data as it becomes available. Nette: the Alas must be downloaded and the large dataset takes on Jero SB. The Window version uses and dversion of the graphing program and no longer has full capability for some difficult computations. Please consider Argoinvig Tidded module intead.	Public, educators, Argo community, scientific community	global
Mon Océan et moi website	Mon ocean et moi (My Ocean and Me) & Adopt a Float are France-based educational projects designed specifically to raise students awareness of ocean science and help students follow floats in the ocean. Explore the interactive map showing BGC Argo float locations and figures of BGC Argo data.	Public & educators	global
EuroArgo Dashboard	The Euro-Arge dashboad provides an interactive majo interface that features metadata and technical data used mostly by the Argo community, but also float locations, trajectories and figures. It is the only site that trades float that they file and other technical aspects of floats, making it an excellent tool to monitor the health of the Argo fleet. Includes data figures produced by filtere and shown on several other visualizations	Argo community	global
Earth.nullschool.net	If you want to see how ocean currents move in real time across the globe, check out Earth Null School. Used by classrooms to study weather and climate, this data viz site now has a beta version of Argo data available at this link. Note: this is a beta version with limited Argo data.	Public & educators	global



Core Areo profiles only Real time quality control only BUER format with OC flags · Maintained by Argo Data Management Team

forecasting and prediction models.

Visualizations and

web applications

This collection of websites and tools allow

non-scientists and scientists alike to quickly

look at Argo data plots. Items listed below

Argo data users

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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

