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Argo in the Caribbean

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













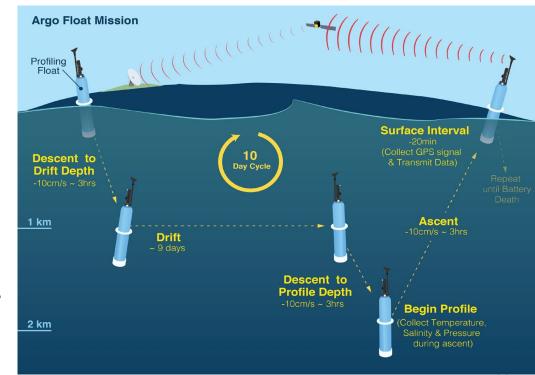






Argo Program

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





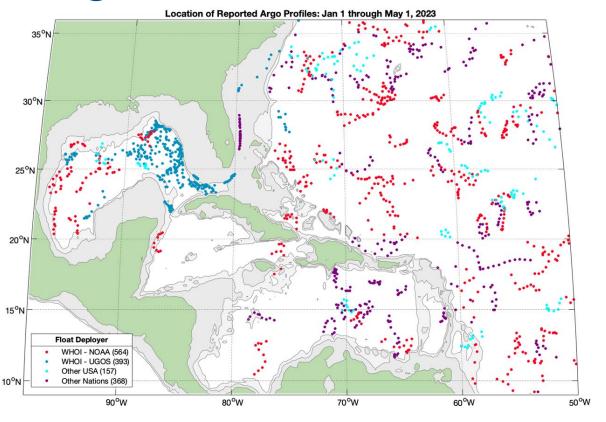


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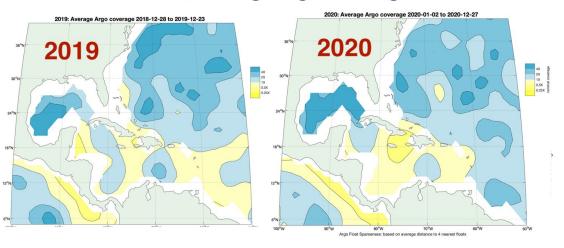
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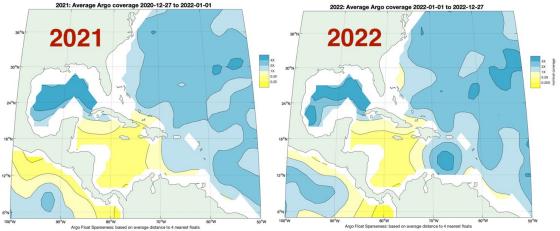
Argo in the Caribbean



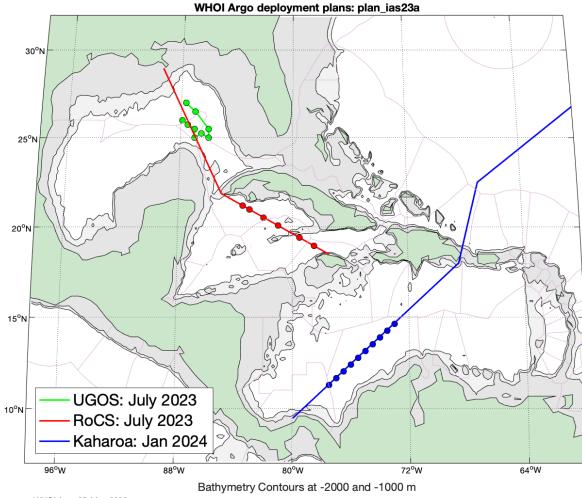


Annual Average Argo Coverage



















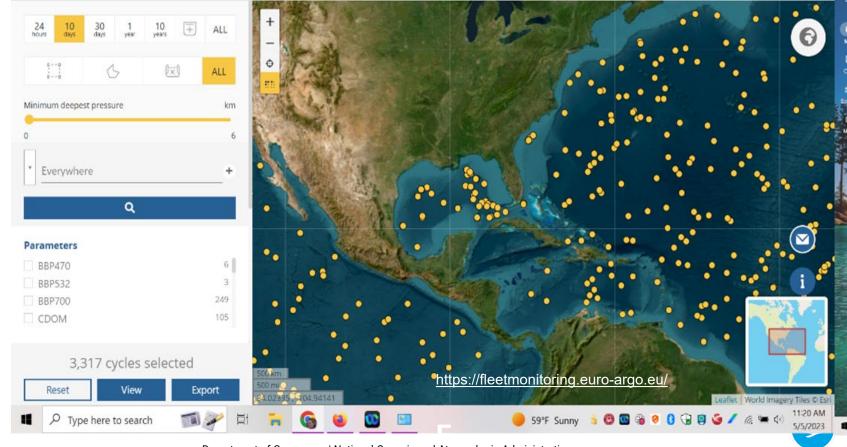








Real-time array monitoring - Real-time data sharing with all nations





















MAIN INFORMATION

TECHNICAL PLOTS

ALL METADATA

About Float

Platform maker WMO

0 0

MRV 4902350

Inst reference Platform type

7369 S2A

Transmission system IRIDIUM n/a

Data Centre Owner

BRECK OWENS. AOML

STEVEN JAYNE, P.E. ROBBINS

Deployment

Launched 6 years ago 17/10/2016 07:44:00

Deployment Latitude Deployment Longitude

25.0376 -95.4015

Ship Cruise

RV PELICAN

Project Principal Investigator

Argo WHOI BRECK OWENS.

STEVEN JAYNE.

P.E. ROBBINS

Cycle activity

Status Age

6.53 years old Active

Last station date Cycle 28/04/2023 287

09:55:58

Last Surface Data

1.04 dbar 26.285°C 36.346 PSU

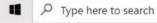
Last Bottom Data

2007.64 dbar 4.288°C 34.973 PSU

Stations data

ARGO MONITORING







































HELP





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Depth: 0 m



















Access to data, documentation, FAQs, tools and data products

Data visualizations



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.

GTS data stream

Real time Argo data go out on the GTS for

operational centers to gather within 12

hours of the observation for use in their

· Maintained by Argo Data Management

forecasting and prediction models.

· Real time quality control only

BLIFR format with OC flags

. Core Argo profiles only

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

Argo data files

- · Argo profile, trajectory, meta and technical data files
- · Real time and delayed mode quality controlled data available
- · Maintained by Argo Data Management
- · Served at Argo GDACs via ftp, http, rsync, DOI, errdap, thredds
- Data in NetCDF format · Selection tools available
- · Auxiliary directory at GDACs to access experimental data

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
- comptimes in other formats · Not maintained by Argo Data Management Team

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 are not present in all tools.

- . View Argo profile, trajectory, meta.
- technical and gridded data · Save Argo data and/or plots
- · Hosted by people directly involved in
- Argo and by people outside of Argo · Access Argo profile data in JSON
- · API access to curated Argo profile database
- . Monitor Argo statistics

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
- · 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

https://argo.ucsd.edu/

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 Compare visualization features here Description Target Audience Visualize temperature, salinity, and BGC data by location at argovis.colorado.edu or access data Public, educators via an API. View float trajectory forecasts, compare gridded fields with Argovis' grid visualization Argo community. module or co-locate Argo data with Atmospheric Rivers. Stay tuned for additional modules scientific using satellite and other Earth science datasets. See the Argovis quickstart page for more community 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 interest. Users can select scientific to download the data chosen in csv, Argo netCDF or Copernicus netCDF format. community Get technical with the site used frequently by the Argo community, OceanOPS Dashboard, Click on a float to pull up metadata, technical information and access to float data. There are many Argo community search options including by mission, program, transmission system, sensor, etc. Make plots or governmental look at performance indicators based on your selection or view static maps and indicators produced monthly. Includes data figures produced by Ifremer and shown on several other The Global Marine Argo Atlas makes it easy for users to look at Argo data and compare it to other global data sets in one free program. The Atlas, made to view gridded netCDF datasets, Public, educators, particularly Argo, Reynolds SST and Aviso altimetry, comes with the data already included and Argo community, can be updated quarterly to receive new data as it becomes available. Note: the Atlas must be downloaded and the large dataset takes up a few GRs. The Windows version uses an old version community of the graphing program and no longer has full capability for some difficult computations. Please consider Argovis's gridded module instead. Mon ocean et moi (My Ocean and Me) & Adopt a Float are France-based educational projects

Mon Océan et moi designed specifically to raise students awareness of ocean science and help students follow

Earth, nullschool, net School, Used by classrooms to study weather and climate, this data viz site now has a beta

floats in the ocean. Explore the interactive map showing BGC Argo float locations and figures of The Euro-Argo dashboard provides an interactive map 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 tracks float battery life and other technical aspects of floats,

If you want to see how ocean currents move in real time across the globe, check out Earth Null

version of Argo data available at this link. Note: this is a beta version with limited Argo data.

making it an excellent tool to monitor the health of the Argo fleet. Includes data figures produced by Ifremer and shown on several other visualizations

★ > ARGO DATA → DATA VISUALIZATION:

Public & educators

Argo community

Public & educators















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

