



U.S. Argo Data Assembly Center



The U.S. Argo Data Assembly Center (U.S. DAC) is hosted by the NOAA OAR Atlantic Oceanographic & Meteorological Laboratory (AOML)

AOML Argo Monthly Metrics Report: February 2025

Argo Mission: Argo is an international program that aims to understand the ocean's role in the Earth System to improve ocean and weather forecasts.

Argo Achievement: Argo is the dominant source of subsurface ocean data. This global array of [robotic profiling floats](#) measure from the ocean surface down to 2000 – 6000 meters ([float type dependent](#)). Argo data play a pivotal role in the Global Ocean Observing System and are used in nearly 600 NOAA products that contribute significantly to all three of [NOAA's strategic goals](#).

Argo Key Impacts: Argo observations are used to detect long-term changes in sea level, ocean heat, ocean biogeochemistry, ice volume and long-term weather signals. Argo is critical for improved global ocean and weather forecasts, including extreme weather events such as hurricanes, and are used within short-range ocean forecast applications for search and rescue operations, fisheries, shipping, oil and gas, and the military. For more information on U.S. Argo Users, please refer to [U.S. Argo Float Data Usage Mind Map](#).

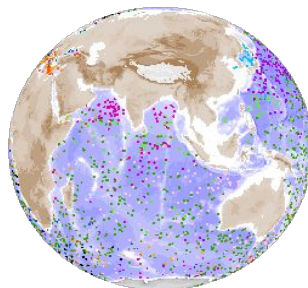
Argo Collaborations: Six U.S. NOAA Agencies, eight U.S. Universities & [30 countries](#) deploy Argo floats.

Argo Data Availability: Argo data and user-friendly tools are freely available from the [USGODAE GDAC](#) and the [Coriolis Argo GDAC](#).

U.S. Argo DAC: February 2025

1,752,802 Total U.S DAC Profile Files in GDAC

2.8 hour median from float to GDAC & GTS user



9,214 Total U.S. Floats



2254 Active Floats
(over the last 60 days)



Core Argo Profiles

Temperature, salinity & pressure (T/S/P).
Depths: 0 – 2000 m
1,632,085



BGC-Argo Profiles

Core (T/S/P) + Biogeochemical sensors: chlorophyll-a fluorescence, oxygen, nitrate, pH, and CDOM.
Depths: 0 – 2000 m
120,717



Deep Core Argo Profiles

T/S/P.
Depths: 0 – 4000/6000 m
33,177

Polar Argo Core Profiles

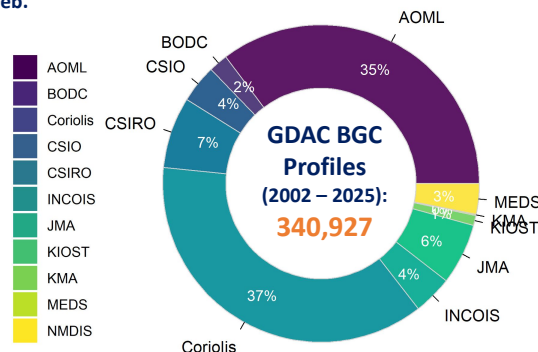
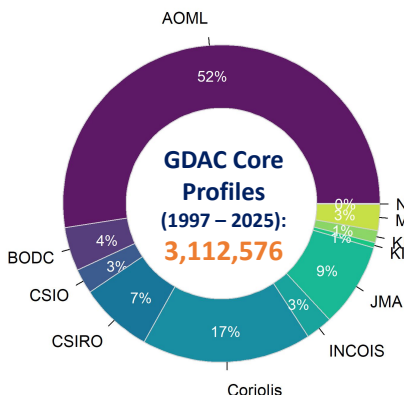
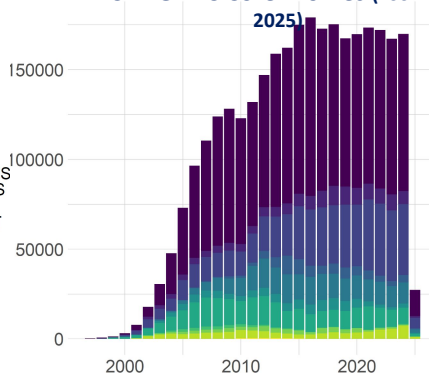
> 60° N & S
T/S/P.
Depths: Ice – 2000 m
50,719

Global Argo Data Assembly (GDAC): 1997 - February 2025

Argo, the 'crown jewel' of ocean observing systems, turns 25!!

Ref: NOAA News, Dec. 11, 2024

DAC -> GDAC Core Profiles (1997 – Feb. 2025)





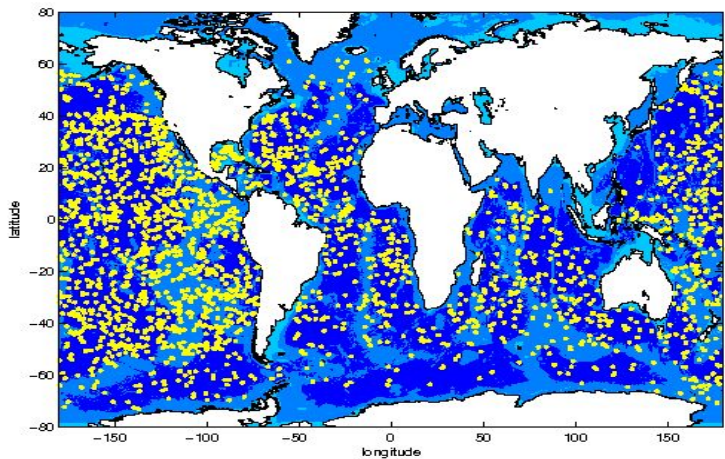
U.S. Argo Data Assembly Center



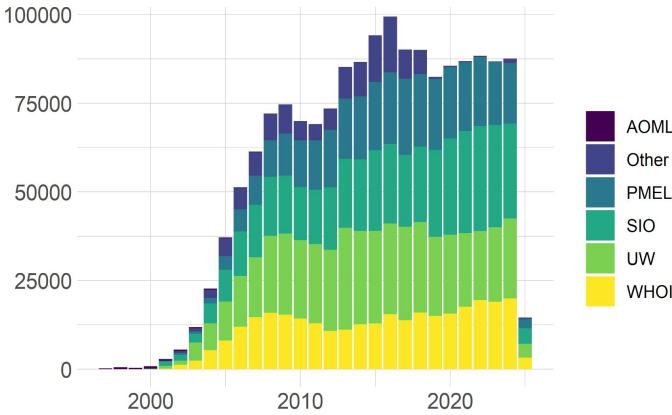
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U.S. DAC Active Floats: February 2025

AOML U.S. Argo DAC active float locations: January 2025

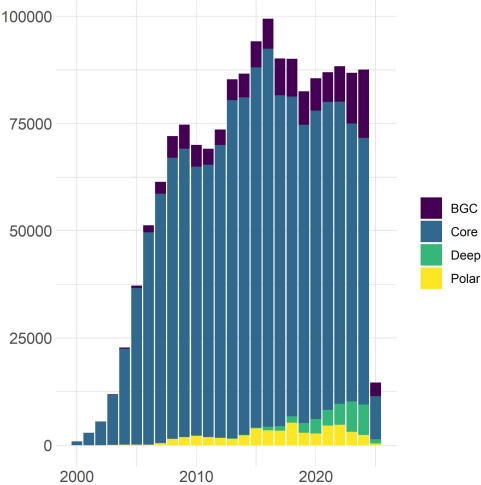


Annual U.S. Consortium Float profiles processed by the AOML U.S. Argo DAC

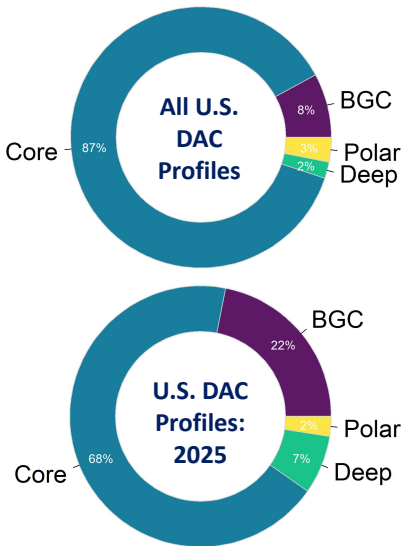
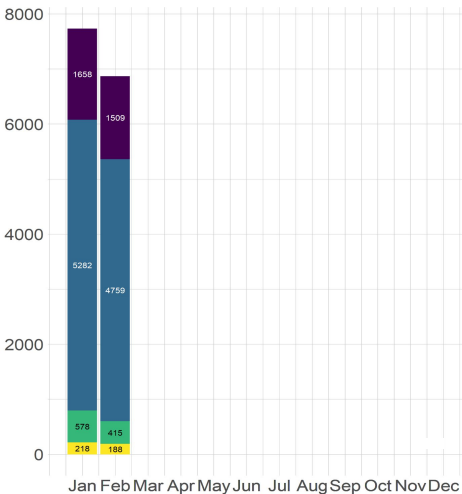


U.S. DAC Profiles: February 2025

U.S. DAC Profiles: 2000 - 2025



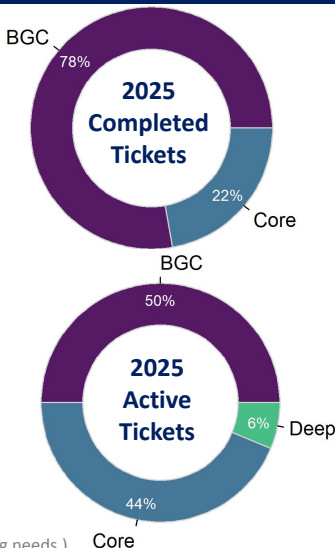
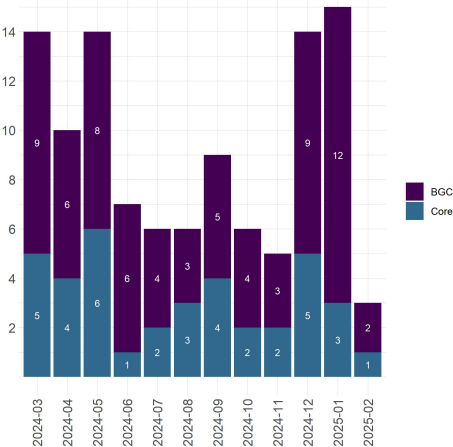
U.S. DAC Profile Counts: 2025



U.S. DAC Internal Ticket Status: February 2025

Completed Tickets (last 12 months)

Active Tickets (last 12 months)



Tickets represent standard operating procedure code changes only, not routine data management (e.g. float transmission errors and reprocessing needs.)