ld your local <u>weather</u> 💡

News T<u>ools</u>

Q





me / News & Features

## Biden-Harris Administration invests 52.7 million to improve ocean observations with new robotic floats through nvesting in America agenda

unding will support expansion of the Argo ocean bserving system

**cus areas:** Research **pics:** oartisan Infrastructure Law, measurements and observations, rth observations **Sh** 

Share: X f 🖂 🖨

pril 10, 2024

Help improve this site



DAA Affiliates Dr. Elizabeth Steffen (left) and Marine Tech Elizabeth Ricci (right) deploy a Deep unding Oceanographic Lagrangian Observer (SOLO) Argo float from the R/V Kaʻimikai-O-Kanaloa in 18. The Deep SOLO float was developed by the Scripps Institute of Oceanography Instrument velopment Group (SIO IDG), and this was the first Deep SOLO float to be deployed by NOAA filiates. (Image credit: NOAA)

day, NOAA and the Department of Commerce announced that \$2.7 million from the partisan Infrastructure Law (BIL) will be used to replenish and expand an important ray of robotic floats in the Argo program that measure ocean and climate data as rt of President Biden's Investing in America agenda.

The Argo array is made up of a fleet of robotic instruments that measure temperature and salinity in the global ocean, drifting freely with the currents. Every 10 days, an argo float dives 1.2 miles below the surface to collect data, which it then transmits via tellite after it returns to the surface for use in weather forecasts and climate search.

or 25 years, the Argo Program has provided more ocean data than any other pserving instrument, helping NOAA revolutionize our understanding of the ocean and role in Earth's climate," said U.S. Secretary of Commerce Gina Raimondo. "This vestment, made possible thanks to President Biden's Bipartisan Infrastructure Law, ill enable the U.S. to maintain our position as the world leader in ocean research. The ew robotic floats will expand out assessments of ocean conditions, measurements id sea level rise as we continue to tackle the impacts of climate change."

his funding will support the development of "OneArgo," a new and improved design r the instrument array, including floats that can measure biogeochemical conditions two key regions that are ecologically and economically important to the U.S. Jlf of Mexico and the California Current Ecosystem. The func Help improve this site forts to increase our knowledge of the Arctic and the Tropical Pacific Ocean, where Ita collection has been sparse.

neArgo exemplifies the type of services that NOAA provides to help improve mate science and resilience," said NOAA Administrator Rick Spinrad, Ph.D. "The irsuit of autonomous technology to fill critical observing gaps and provide essential ita and tools for society will only become more important as we move into the ture."

he Argo program includes 26 countries. The data from the Argo array plays a major le in ocean and climate assessments, such as assessments by the Intergovernmental anel on Climate Change. When OneArgo is fully implemented, it will benefit fisheries odeling and management, sea level rise predictions, advanced seasonal weather recasting and the emerging industry associated with marine carbon dioxide removal.

rgo currently includes 4,000 floats and ultimately aims to add 700 more to the array.

ne original Argo array was deployed in 1999 and consisted of floats measuring mperature and salinity. In recent years, scientists and engineers developed new pabilities and new types of floats: <u>Deep Argo</u> floats that extend the robots' range up 3.7 miles below the surface, and <u>biogeochemical Argo</u> floats that measure oxygen, rbon pH and other conditions that are critical for addressing environmental issues the low oxygen levels and ocean acidification.

ost floats last for 4-5 years on battery power. The new funding will add 40 more rgo floats, 7 more Deep Argo floats and 6 biogeochemical floats to the mix. Funding ill also support the development of key data management infrastructure for the ray. NOAA and the National Science Foundation support U.S. Argo investments and tivities.

sit NOAA's <u>Bipartisan Infrastructure Law website</u> to learn about current and future nding opportunities.

edia contact

žź

Ð

औ

 $\approx$ 

哭

L

X

 $\mathcal{O}$ 

ison Gillespie, <u>alison.gillespie@noaa.gov</u>, (202) 713-6644

LATED FEATURES //

ž Ð ॵ  $\sim$ 哭 Ł R

Č

New NOAA system ushers in next generation of hurricane modeling, forecasting

New NOAA study offers pathway to improved Arctic outbreak forecasts

st updated April 10, 2024

Have a comment on this page? Let us know.

Science. Service. Stewardship.

## News | Tools | About

Resources for Tribal & Indigenous Communities | Bipartisan Infrastructure Law (BIL) | Inflation eduction Act (IRA) | Protecting Your Privacy | FOIA | Information Quality | Accessibility | Guidance | Budget & Performance | Disclaimer | EEO | No-Fear Act | USA.gov | Ready.gov | Employee Check-In | Staff Directory | Contact Us | Need Help? | COVID-19 hub for NOAA personnel 🗗 | Vote.gov

Stay connected to NOAA

