

ARGO National Report 2022 – The Netherlands

1) Status of implementation

The Dutch Argo program started in 2004 and is run by the Royal Netherlands Meteorological Institute (KNMI).

The Netherlands are a founding member of the Euro Argo ERIC.

Contribution to the Argo array:

- 101 floats have been purchased since 2004
- 25 are working
- 6 will be deployed soon

Twelve floats will be bought in 2022 (order already placed).

2) Present level of (and future prospects for) national funding for Argo including summary of human resources devoted to Argo.

In their observation strategy adopted in 2006 KNMI has expressed the intention to deploy about 7 floats per year. However, the actual number of floats purchased varied a lot during the past years. For 2022, extra money became available for floats to be deployed in the Caribbean Sea.

Presently, the Netherlands only contributes to the core mission.

One person (Andreas Sterl) is working on ARGO. He does so besides his other duties.

3) Summary of deployment plans.

Six floats are already on board a ship for deployment in the southern the Atlantic Ocean.

Four floats are prepared for deployment in the Caribbean Sea.

Eight will be deployed in the southern Atlantic Ocean later this year.

4) Summary of national research and operational uses of Argo data

Argo data and/or products derived from Argo data are used to initialize climate models by groups at KNMI and Utrecht University.

Process studies using Argo data are performed at the Netherlands Institute for Sea Research (NIOZ), especially in the Caribbean Sea.

5) Issues that your country wishes to be considered (and resolved) by AST regarding the international operation of Argo

Nothing.

6) CTD data uploaded to CCHDO

No.

7) Bibliography

- van der Boog, C. G., Koetsier, J. O., Dijkstra, H. A., Pietrzak, J. D., & Katsman, C. A. (2021): Global dataset of thermohaline staircases obtained from Argo floats and Ice-Tethered Profilers. *Earth System Science Data*,13(1), 43–61, <https://essd.copernicus.org/articles/13/43/5152021/doi:10.5194/essd-13-43-2021>.

- C.G. van der Boog, H.A. Dijkstra, J.D. Pietrzak, C.A. Katsman (2022): Spatial variations of Antarctic Intermediate Water in the Caribbean Sea due to vertical mixing along its path. *Geophys. Res. Lett.*, <https://doi.org/10.1029/2021GL095977>.

8) COVID-19 impact

Delay/canceling of deployments in 2020. Backlog has been cleared in 2021, making use of the Atlantic charter organized jointly by WHOI, Argo Canada and Euro Argo.

9) RBR sensors

Four floats with RBR CTDs will be deployed in the Caribbean Sea in April/May of this year.