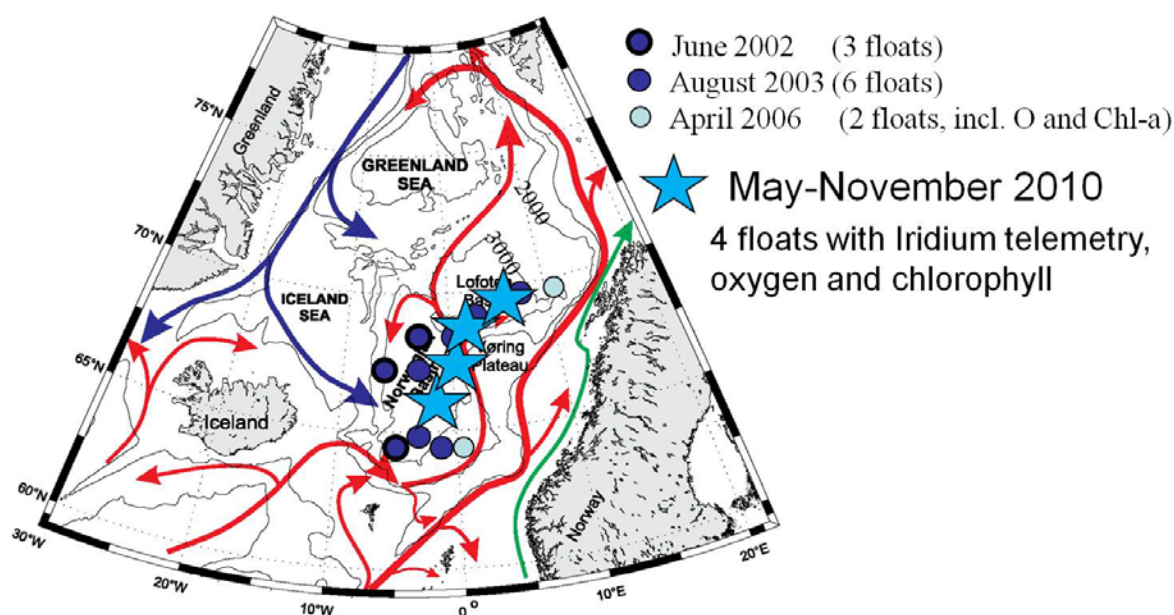


# Status of Argo Norway, 13<sup>th</sup> June 2013

The Institute of Marine Research (IMR) is involved in the international Argo programme with contribution of Argo floats, ship time for deployment and user of the data. At present, IMR is the only institution in the Argo Norway.

## 1. The status of implementation

At present we have in total purchased and deployed 15 floats, all in the Norwegian Sea. Three floats were deployed in 2002, six floats in 2003, two floats in 2006 that included oxygen and fluorescence sensors, and four floats in 2010 that also included oxygen and fluorescence sensors. All floats are APEX floats and the latest four deployed floats have Iridium telemetry. At present only two of our floats are active.



Locations of all Argo deployments from Argo Norway.

### Delayed mode

Regarding the “Delayed mode” Argo Germany do delayed mode quality control for all floats in the Nordic Seas including our floats.

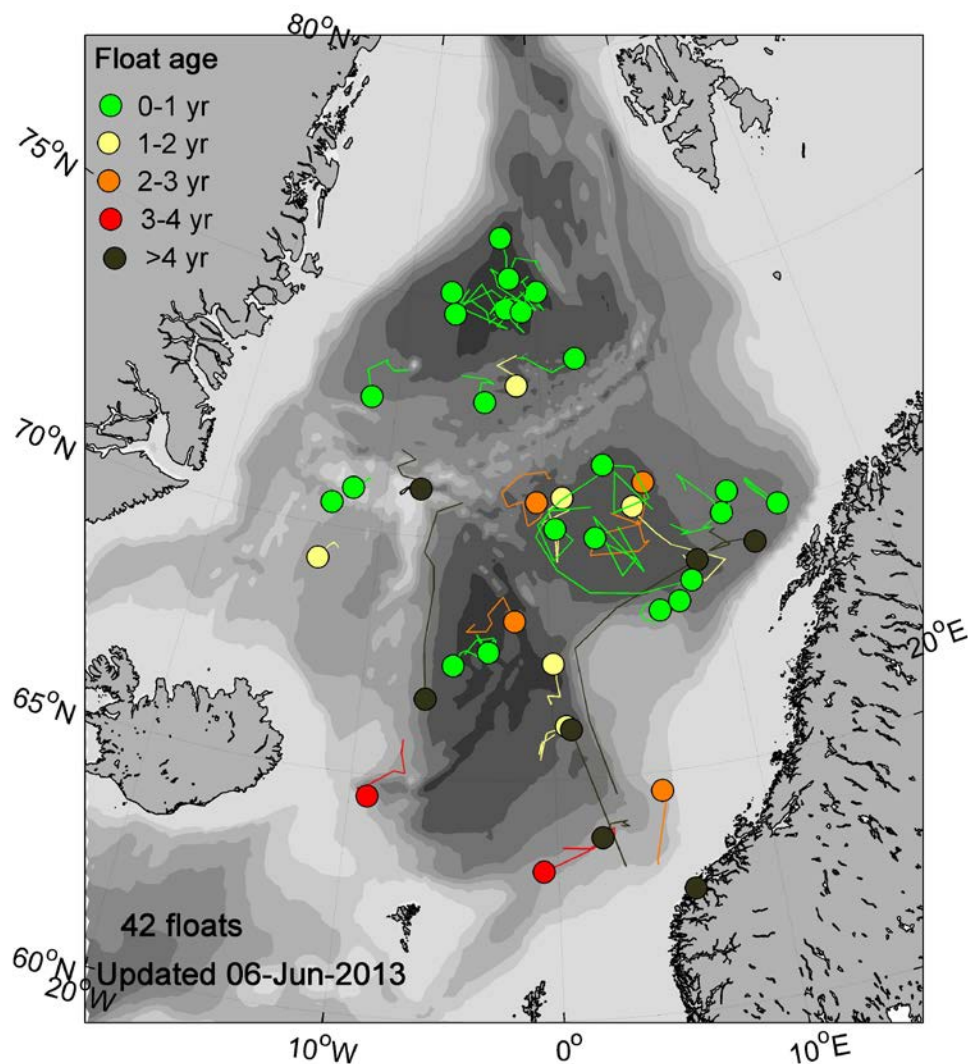
## 2. Present level of and future prospects for national funding for Argo

The funding has so far been self-financed (i.e. funded by our institute). The total float purchase has cost about 260kEURO.

IMR has received funding from the Norwegian Research Council (NRC, Ministry of Education and Research) for funding of three Argo floats per year the next three years.

### 3. Summary of deployment plans

IMR will deploy two PROVOR floats with biogeochemical sensors within the Norwegian Sea during November 2013 as part of the EU-project E-AIMS. Additional, with the funding from NRC we plan to deploy three APEX floats in the Norwegian Sea the next years, starting from end of 2013 or beginning of 2014, that will include Iridium telemetry. Some of these floats will include oxygen and fluorescence sensors. These floats will be deployed within the Nordic Seas where the needs are largest.



Active Argo floats within the Nordic Seas, updated 6<sup>th</sup> June 2013. The colours indicate age in years while the thin lines (for some floats) are the drift over the last 2 months.

### 4. Summary of national research and operational uses of Argo data

ARGO Norway focuses on both research topics and marine climate monitoring of the Nordic Seas. Approximately 3 scientists in 3 projects are directly involved in Argo Norway but also other people contribute with technical expertise, data management, ship time for deployments, and processing and analysing the data. There is an increasing interest in using Argo data in Norway. Several institutes are involved in the EU-project MyOcean where Argo data are central, and within this project two climate centres are now using the data operationally in climate models.

The present scientific topics are mainly within the Nordic Seas (Norwegian, Iceland and Greenland Seas) and include:

- Studies of the deep ocean circulation in the Nordic Seas. These studies have so far brought new insights in the circulation of the Nordic Seas.
- Water mass changes and also in relation with biological activities. This topic is also one of the reasons that we have included both oxygen and fluorescence sensors on our Argo floats.
- Studies that involve changes in the mixed layer.

## **5. Issues we wish to be considered and resolved**

At the moment we have no suggestion.