

# Status of Argo Norway, Feb-2011

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. The floats with additional sensors have so far performed well.

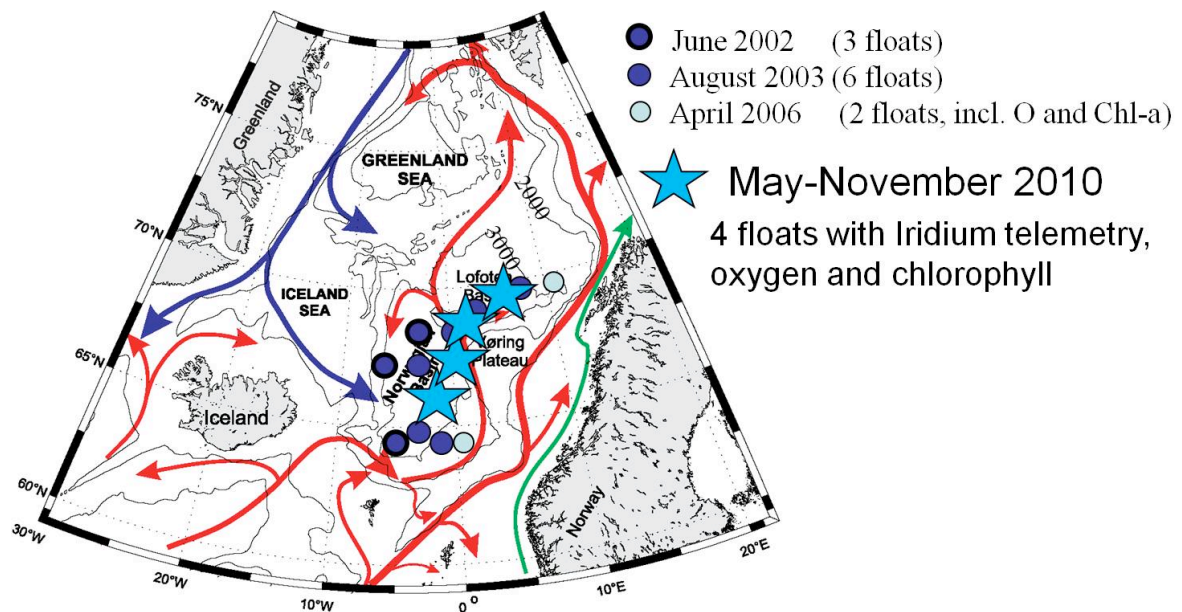


Figure. Locations of all Argo deployments from Argo Norway.

### Delayed mode

Regarding the “Delayed mode” the Argo German 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. There are not devoted any funding for scientific analysis, but some persons are partly working with the Argo floats regarding data collection and management. The scientific analysis is done in other external financed projects.

In 2010, IMR received funding from the IMR's annual budget for purchasing of four floats with oxygen and fluorescence sensors. These floats were all deployed in the Norwegian Sea during 2010.

In October 2010, IMR submitted a proposal to the Norwegian Research Council (NRC, Ministry of Education and Research) for long-term funding of Argo floats and to be a full member of the Euro-Argo European Research Infrastructure Consortium (ERIC). The proposal has a target of purchasing and deploying eight floats per year over five years. An answer from the NRC is expected during the spring 2011.

### **3. Summary of deployment plans**

At present we have no deployment plans due to lack of funding.

### **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.