

Argo-KOREA Annual Report 2017

by National Inst. of Meteorological Sciences/KMA

19th Argo Steering Team Meeting (AST-19)
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1. Status of Implementation

The National Institute of Meteorological Sciences of Korea Meteorological Administration (NIMS/KMA) and Korea Institute of Ocean Science & Technology (former KORDI) have been involved in the International Argo Program since 2001. NIMS/KMA has deployed 230 Argo floats around Korea peninsula and North Pacific Ocean including 50 active floats as of February 2018. In 2017, total 13 floats were deployed in the East Sea (8 ea), Yellow Sea (2 ea) and southern part of Korea (3 ea) (Fig.1).

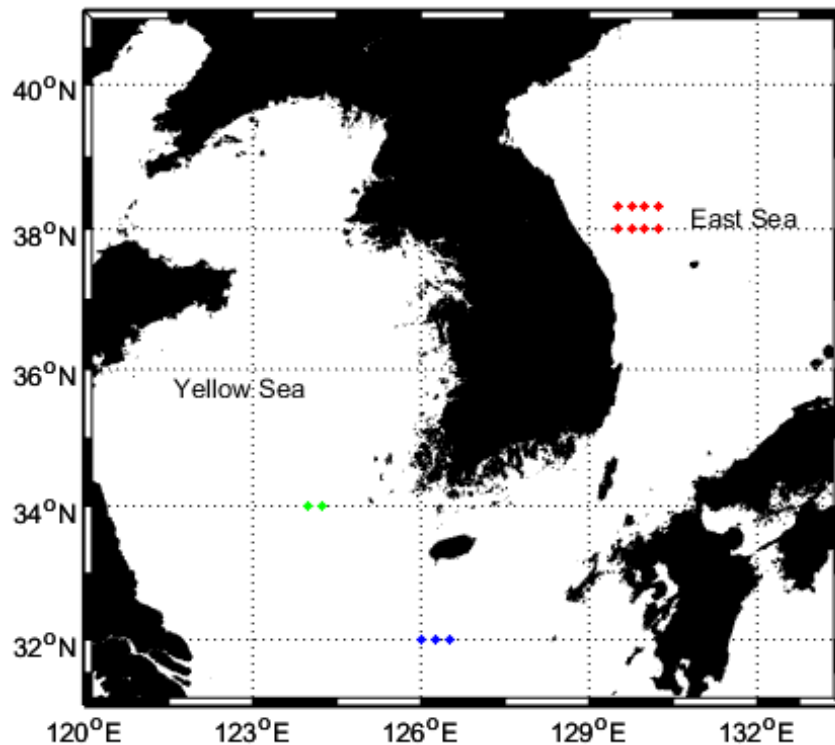


Fig. 1. Location map of Argo float deployment by NIMS/KMA in 2017

- Status of contributions to Argo data management

- Reproduction of NetCDF data of dead floats.
 - Meta, technical and trajectory files will send to GDAC (by Mar. 9)
- Transmission of converted NetCDF data to US-GDAC
 - solved the network issue (US-GDAC)
- Implementing the Argo data format check program (new version)

- *Delayed Mode QC*

- During October 2016 - November 2017, we reprocessed most of previous D-files and has sent 7,208 of the revised D-files with NetCDF format (ver. 3.1) to the GDAC.

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

KMA has tried to keep same level of deployment about 10~15 floats per year. However, the float number deployed around Korea this year will be 5 due to the budget decrease.

- *Human resources*

- **Following persons contribute to the Argo-Korea program:**
 - KiRyong KANG, JongSook PARK, Hyeong-jun JO (KMA)
 - Sung-Dae KIM (KIOST)

3. Summary of deployment plans

NIMS/KMA has a deployment plan for 5 floats (ARVOR float) in 2018: 3 will be deployed at the East Sea for normal Argo program and 2 at the Yellow Sea for the new observation scheme in the regional ocean. Continuing the last year's program in the Yellow Sea, observation program using the Argo float will be preformed to investigate the ocean environment variation in west coast of Korea.

4. Summary of National Research and Operational Uses of Argo data as well as contributions to Argo Regional Centers.

NIMS/KMA operates the Global Ocean Data Assimilation and Prediction System (GODAPS), based on the NEMO-CICE coupled models and NEMOVAR assimilation. The global Argo profiles data obtained thru GTS network (TESAC and BUFR format data) are used to assimilate into the model using the 24-hour time-window. This operating system produces daily mean ocean, sea-ice analysis and 1-day forecast. And NIMS/KMA runs an Argo Regional Data Center in order to provide the profile data, float-track, and number of acting float, and etc, which can be found at the home page: <http://argo.nims.go.kr>.

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

- Regional ocean observation using the Argo float

6. CTD data uploaded to CCHDO

- No

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