

KOREA Argo National Data Management Report

ADMT18

Hamburg, Germany, Nov 27 – Dec 1, 2017

1. Status

1.1. Data acquired from floats

In 2017, the National Institute of Meteorological Sciences (NIMS) of Korea Meteorological Administration (KMA) deployed 13 floats in total around Korea: 8 for the East Sea, 2 for the Yellow Sea and 3 for the South Sea of Korea (Fig. 1, 2). NIMS/KMA has deployed 230 Argo floats in the North Pacific Ocean and East Sea since 2011, and 53 floats are in active as of November 17, 2017. As one of regional DACs, the NIMS/KMA is acquiring ARGOS messages and Iridium messages via web service from CLS in real-time, and all profiles obtained from the floats are transmitted to GDAC in the NetCDF format using TESAC and BUFR data after the real-time quality-control process on operational system.

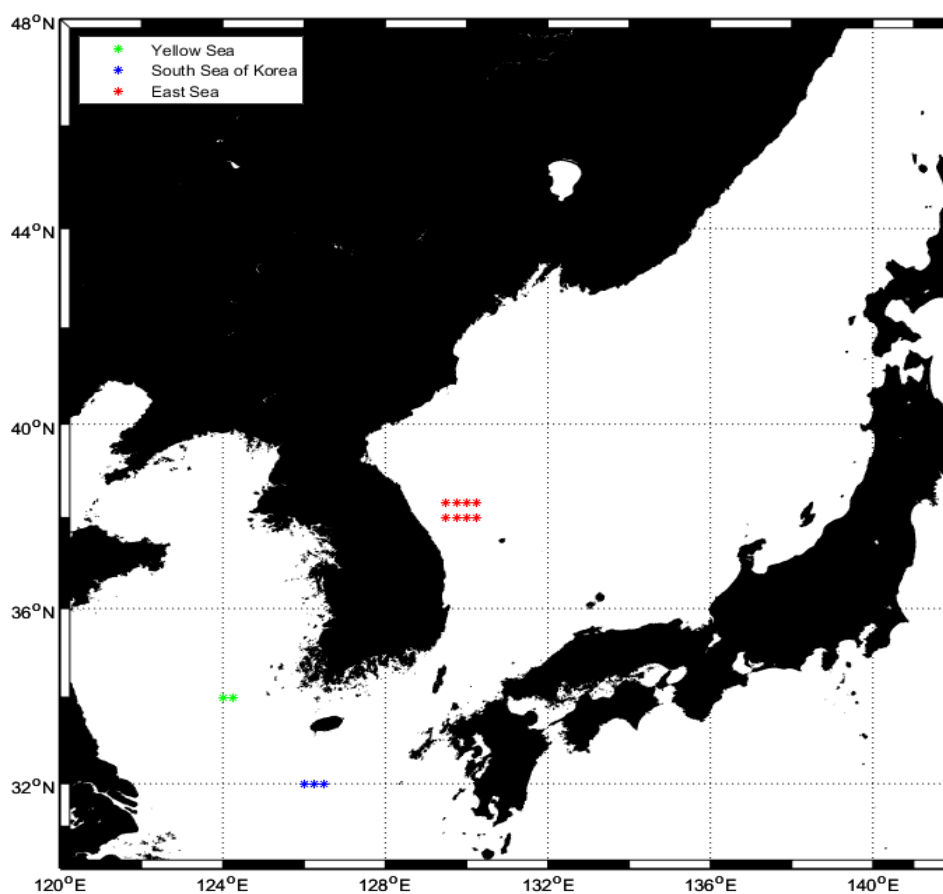


Fig. 1. Location map of deployment of Argo floats around Korea in 2017



Fig.2. Several snap shots of the NIMS/KMA's Argo float deployment in 2017

1.2. Data issued to GDAC

Total 2217 profiles were acquired during January thru November in 2017 and sent to the GDAC by real-time after the QC.

- NetCDF profile files conversion to v.3.1. (realtime data completed)
- NetCDF meta, technical and trajectory file conversion to v.3.1. (completed)
- transmission of converted NetCDF data to GDAC (France/USA)
- implementing the Argo data format check program.

1.3. Web pages

NIMS/KMA is operating the Korea Argo web page (<http://argo.nims.go.kr>). It provides profile data and status of Argo floats to the public and has shown 25,200 hits by visitors in monthly average. The web page has been updated so far and it is possible to view by the firefox, explorer and chrome browser.



Fig. 3. Argo homepage of NIMS/KMA (<http://argo.nims.go.kr>)

1.4. Deployment plan for 2018

NIMS/KMA will continue to deploy the Argo floats around Korea such as Yellow Sea and East Sea (see Fig. 4). The red circle shows a possible area for the floats to be deploy in 2018 aiming at covering the regional seas of Korea.

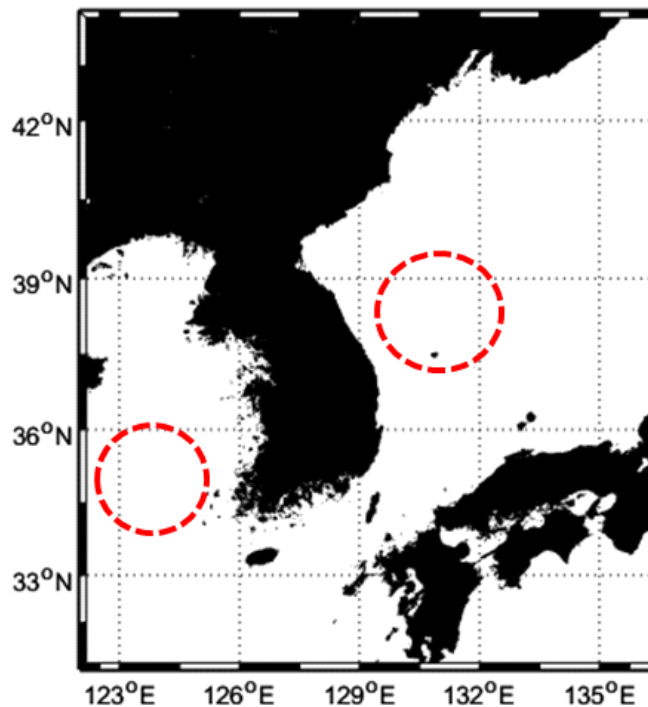


Fig. 4. NIMS/KMA's deployment area in 2018.

2. Delayed Mode QC

During October 2016 thru 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 GDACs.