

Argo National Data Management Report 2010 China

The 11th Argo Data Management Team Meeting

1. Status

China deployed 15 Argo floats in 2010 which were all from SOA. The Chinese DAC has processed data from 47 Argo floats since 2010, and 1080 R-files have been sent to GDACs. All the profiles were inserted into GTS at CLS. A total number of 3305 D-files have been sent to GDACs, which accounts for 79% of the submitted profiles.

About 8 Argo floats will be deployed in the Northwestern Pacific ocean in October.

Both the China Argo Data Center(NMDIS) and China Real-time Data Center (CSIO) has established their websites (<http://www.argo.gov.cn> and <http://www.argo.org.cn>) for Argo data inquiring and display.

The China Argo Data Center(NMDIS) provides access to the global Argo profiles data, meta data, trajectory data and deployment information from the daily updated Argo Database. The users are able to access to the data conveniently on the website including netCDF raw data, near real-time data, meta data, trajectory data, delayed-mode data and download Argo data via FTP. In order to expand the usage of Argo data, China Argo Data Center has set up an Argo trajectory data quality control system, which can eliminate abnormal location data. Based on J.J. Parker method, China Argo Data Center also provides the global monthly averaged surface current and mid depth current maps derived from good Argo trajectory data. Besides these, many products of Argo data, such as waterfall maps, Argo trajectory maps are also provided. All these products can be downloaded from the website: <http://www.argo.gov.cn>.

The China Real-time Data Center web pages (<http://www.argo.org.cn>) are updated daily with the real-time data obtained from the floats. A web database which is monthly updated has been established for global Argo data inquiring and displaying.

Using various temperature, salinity profiles including Argo data and SSHA, a new reanalysis system has been developed by the NMDIS of China for the China coastal waters and adjacent seas to produce a dataset called China Ocean Reanalysis (CORA). The data assimilation scheme is a sequential 3D-Var implemented within a multi-grid framework. The CORA dataset includes sea surface height, temperature, salinity and current in the area and starts from Jan. 1986 and is real-time updated yearly and can be downloaded freely from the web site: <http://www.cora.net.cn>

2. Delayed Mode QC

OW method and thermal lag calibration has been applied for Argo salinity DMQC. SSP correction hasn't been applied due to lack of manpower.

In order to expand the usage of Argo data, China Argo Data Center has calibrated all (more than 5000 Argo floats which worked more than half year) the salinity profile data based on OW method. All the delayed-mode data can be downloaded from the web site <http://www.argo.gov.cn>.