

Korea Argo National Data Management Report

5th ARGO data management meeting

1. Status

- Data acquired from floats

Deployment of Korea ARGO floats

Year	Organization	Number of deployed Argo floats				Total
		East/Japan Sea	Northwest Pacific	Antarctic Ocean & Others	Subtotal	
2001	KMA	3	7		10	18
	KORDI/ MOMAF	5	1	2	8	
2002	KMA	5	10		15	25
	KORDI/ MOMAF	6		4	10	
2003	KMA	5	10		15	33
	KORDI/ MOMAF	8		10	18	
2004	KMA	5	10		15	36
	KORDI	11		10	21	
2005 (plan)	KMA	5	10		15	30
	KORDI	5		10	15	

※ KMA : Korea Meteorological Administration
 MOMAF : Ministry of Maritime Affairs and Fisheries
 KORDI : Korea Ocean Research and Development Institute

KODC has been improving the system to get all data by automatic download from the CLS database everyday.

- Data issued to GTS
 Within 24 hours of data collection, all data of KORDI is issued to GTS by Coriolis in France temporarily and all data of KMA is issued to GTS by KMA in Korea.
- Data issued to GDACs after real-time QC
 Real-time QC system for ARGO data from METRI/KMA was developed in February 2004. KORDI and METRI/KMA have been developing an automatic real time QC systems in which local characteristics in the vertical temperature and salinity distributions are considered.

The KORDI system is very flexible and data from different types of profilers can be incorporated easily. This system will be operational during the fourth quarter of 2004.

- Data issued for delayed QC

In order to carry out higher level of DMQC, the KODC has been collecting and analyzing data of the serial oceanographic observations which are carried out bimonthly on 69 fixed stations from 8 lines in the East/Japan Sea since 1961.

- Delayed data sent to GDACs

In 2005, the KODC will send delayed data to GDACs after delayed QC using a program and manual QC by specialists. KORDI has been developing delayed mode QC schemes and salinity calibration methods for data obtained in the East/Japan Sea. Data with delayed mode QC will be distributed next year.

- Web pages

The KODC has operated and upgraded a Korea ARGO web page (<http://kodis.nfrdi.re.kr/argokorea/>), which consists of DM data and RT data linked to KMA(<http://argo.metri.re.kr>). The KODC has also developed temperature offering system for Korean distant water fisheries in near real-time using ARGO data. Its webpage is <http://kodis.nfrdi.re.kr/argo/> temporarily.

KORDI will open its own webpage (<http://argo.kordi.re.kr>) during the fourth quarter of 2004. Seoul National University has operated ARGO homepage (<http://eastsea.snu.ac.kr/pfloats.html>) for profiling floats in the East/Japan Sea since 2000.

- Statistics of Argo data usage

Many scientists have applied the ARGO data to the researches for data assimilation, intermediate level circulation of the East/Japan Sea, global statistics of inertial motions, upper ocean response to tropical storms and distant water fisheries. There are two national PIs in Korea.

2. Delayed Mode QC

PI of each program is primary responsible for the ARGO DMQC and the KODC has developed a program in order to control ARGO DMQC and DMDB in Korea. In 2005, the KODC will send delayed data to GDACs after delayed QC using a program and manual QC by specialists.