

# Argo National Data Management Report of Korea

## The 11<sup>th</sup> Argo Data Management Team 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	subtotal	
2001	KMA	3	7		10	18
	KORDI	5	1	2	8	
2002	KMA	5	10		15	25
	KORDI	6		4	10	
2003	KMA	5	10		15	33
	KORDI	8		10	18	
2004	KMA	5	10		15	38
	KORDI	13		10	23	
2005	KMA	5	10		15	33
	KORDI	10		8	18	
2006	KMA	5	10		15	33
	KORDI	13		5	18	
2007	KMA					9
	KORDI	9			9	
2008	KMA	5	10		15	29
	KORDI	11		3	14	
2009	KMA	5	7		12	17
	KORDI	5			5	
Total	KMA				112	235
	KORDI	118	75	42	123	

※ KMA: Korea Meteorological Administration

KORDI: Korea Ocean Research and Development Institute

- KMA has deployed 12 additional Argo floats in June 2010. During Nov. 2009 - Sep. 2010, 1531 R-files of KMA are sent to GDAC.

- Data issued to GTS  
Within 24 hours of data collection, the deployment all data of KMA Argo floats are issued to GTS. BUFR formatted ARGO data are being prepared. There still remain to correct code.

Within 24 hours of data collection, the deployment all data of KORDI Argo floats are issued to GTS by CLS in France.

- Data issued to GDACs after real-time QC

RTQC system at KORDI is so flexible that it can handle data from different type of profilers. Prior to communicating the Argo datasets to GDAC, the KORDI ARGO dataset is processed by CLS, France for dissemination to GDAC.

KMA RTQC system produces profile data, metadata, technical data and trajectory data with NetCDF format. Those 4 types of data are transmitted into GTS network and GDAC.

- Data issued for delayed QC  
During November 2009 – October 2010, KODC has acquired 5,315 profiles via GDACs for delayed QC.
  
- Delayed data sent to GDACs  
As of October 2010, KODC has sent 3,322 D-files to the GDACs after DMQC including pressure adjustment.
  
- Web pages  
The KMA has operated and upgraded Argo web page, which consists of RTQC data linked to KMA (<http://argo.metri.re.kr>). The KODC has operated webpages for distribution of delayed mode Argo data and oceanographic information system for pelagic fishery based on Argo data (<http://kodc.nfrdi.re.kr>). KORDI has also operated Argo webpage (<http://argo.kordi.re.kr>).
  
- Statistics of Argo data usage  
National PIs are Dr. Sang-Buem Ryoo from KMA and Dr. Moon-Sik SUK from KORDI. Many scientists have applied the Argo data to the researches and operational oceanography. For example, data assimilation, circulation of the East/Japan Sea, and operation of oceanographic information system for pelagic fishery.
  
- Products generated from Argo data  
ARGO data has been applied in the global seasonal prediction system (PNU/CME CGCM), and the products are referred to the seasonal prediction at KMA. In addition, the data has been used in the regional ocean model of METRI/KMA for producing ocean analysis fields.