



INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION
(of UNESCO)

**Twenty-second Session of the IOC/WESTPAC Co-ordinating Committee for
the North-East Asian Regional-Global Ocean Observing System (NEAR-GOOS-CC-XXII)**

10 March, 2025 JAPAN

Status of the China NEAR-GOOS Delayed Mode Data Base

Submitted by YU Ting

National Marine Data and Information Service (NMDIS), P.R. China

1. General Status

- i. China NEAR-GOOS Delayed Mode Database (CDMDB) has been operationally maintained by the National Marine Data and Information Service (NMDIS) of China. The institute is responsible for the management of national marine data and information resources, providing guidance and scientific stewardship for the national marine data and information; and providing information and technical support for marine economy, marine management, public service and marine environmental protection, and conducting related research. On behalf of China, NMDIS participates in international marine data and information exchange and cooperation, and fulfills relative international responsibilities.
- ii. NMDIS provides full technical and financial support to CDMDB. The current URL of CDMDB is <http://near-goos.nmdis.org.cn/>

2. CDMDB operation and maintenance

2.1 Data provided in the Database

Quality-controlled data from April 2024 up to now were uploaded to CDMDB. Totally 180 files, 11.2MB.

No.	Description of data	Update frequency	Type	Remarks
1	<i>Delayed mode temperature and salinity and wind-wave data from 3 Chinese oceanographic stations: Shidao, Xiaomaidao, and Lianyungang</i>	<i>Updated quarterly</i>	<i>In-situ data</i>	<i>SST at 08:00, 14:00, and 20:00, SSS, wind direction, wind speed, sea state, wave type, wave direction, swell direction, maximum wave height, period, One-tenth maximum Wave height, Period, Significant wave height</i>
2	<i>Monthly mean sea level data from 6 Chinese oceanographic</i>	<i>Updated monthly</i>	<i>In-situ data</i>	<i>Sea level</i>

	<i>stations: Dalian, Kanmen, Lvsi, Zhapo, Xisha, and Nansha</i>			
3	<i>Near-realtime marine meteorological data, wave, sea surface temperature and salinity data from 13 Chinese oceanographic stations: Xiaochangshan, Dalian, Yantan, Xiaomaidao, Lianyungang, Shengshan, Zhenhai, Dachen, Nanji, Beishuang, Dongshan, Lvsi and Zhelang</i>	<i>Updated monthly</i>	<i>In-situ data</i>	<i>Visibility, Air Temperature , Wind Direction , Wind Speed, Air pressure , During_Past_6_hours_Precipitation, Sea Temperature , Wind Wave Height, Wind Wave Period, Surge Height , Surge Period</i>

2.2 Products provided in the Database

Metadata information of oceanographic stations, and tide forecast product is provided by CDMDB.

Serial	Description of product	Source	Type	Remarks
1	<i>Metadata of China Oceanographic Stations</i>	<i>NMDIS</i>	<i>Datasets</i>	<i>Information collected, and to be processed later</i>
2	<i>Tide forecast of main ports along China coastline</i>	<i>NMDIS</i>	<i>Forecast</i>	<i>URL link provided</i>

3.3 Data downloaded by the Database

Total data files of 488 (5.79GB) were downloaded by the Data Base from Jan 2024 to Dec 2024: sea level, and oceanographic and meteorological data of 20 Japanese oceanographic stations, GTSP data, SOT data, sea ice data and wind data.

3.3 Relevant technical manuals, handbook developed for the NEAR-GOOS

Currently, there are two technical manuals used at CDMDB:

- (1) *Oceanographic and Marine Meteorological Data Quality Control Manual*
- (2) *Technical Specification of Oceanographic Station Delayed-mode Data Quality Control*

3. **Any other activities (observations, trainings etc) conducted under the framework of NEAR-GOOS**

None

4. **Cooperation with other projects, and/or programmes, and /or organizations**

NMDIS participates in many international ocean-related organizations and programs such as IOC, WMO, GOOS, and GLOSS, etc, and hosts several national centers or nodes for international and regional programs such as the China Argo Data Center, China GTSP Data Center, the WMO-IOC Center for Marine-Meteorological and Oceanographic Climate Data Center, Tianjin China (CMOC/China). NEAR-GOOS was highlighted during the past intersessional period

through technical exchange with the above international/regional nodes.

5.1 CMOC/China

CMOC/China has carried out the collection, processing, quality control, and integration of international oceanographic and meteorological data from China oceanographic stations, Argo, GTSP, WOD, NEAR-COOS, GLOSS, DBCP, ICOADS, etc. Standardized datasets are shared and published globally on the website. A total of 185 069 global oceanographic and meteorological data files (253.11GB) have been released, with a time range of 1662-2024. In 2024, 1721 data files (12.38GB) were updated. Among them, there were 449 files (4.42G) in temperature and salinity dataset; 9 files (7.87GB) of meteorological data; 256 files (0.01GB) of sea level data; 1007 files (0.08GB) of the global buoy data.

5.2 Argo

The China Argo Data Center has completed the global Argo database which works operationally for operational downloading, standardized processing, quality control, product making, and online releasing of global Argo data. Since last NEAR-GOOS CC meeting, the China Argo Data Center has received and updated a total of 137 000 records (3.06GB) of Argo data from Jan 2024 to Dec 2024.

5.3 GLOSS

Monthly mean sea level data from six Chinese oceanographic stations (Dalian, Kamen, Lys, Zhao, Nansha, and Xisha) are available, covering a time range of April 2024 to December 2024 , with a data volume of 0.01MB.

5. **Suggestions on the future NEAR-GOOS development**

The visibility of NEAR-GOOS project needs to be improved through multiple means. It is suggested that all RT and DM Databases webpage could be updated more regularly. The members need to strengthen the cooperation and build new connections among the community. More efforts are needed to align with WESTPAC work plan and new activities under UN Ocean Decade.