Report on
China Regional Real-Time Data Base

National Marine Environmental Forecasting Center

(NMEFC)

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2025-03-10

Progress of RTDB in China

1. Website Address

* *https://neargoos.nmefc.cn/*

2. Objectives

* Provide more efficient, automated real-time in situ data and numerical forecast product

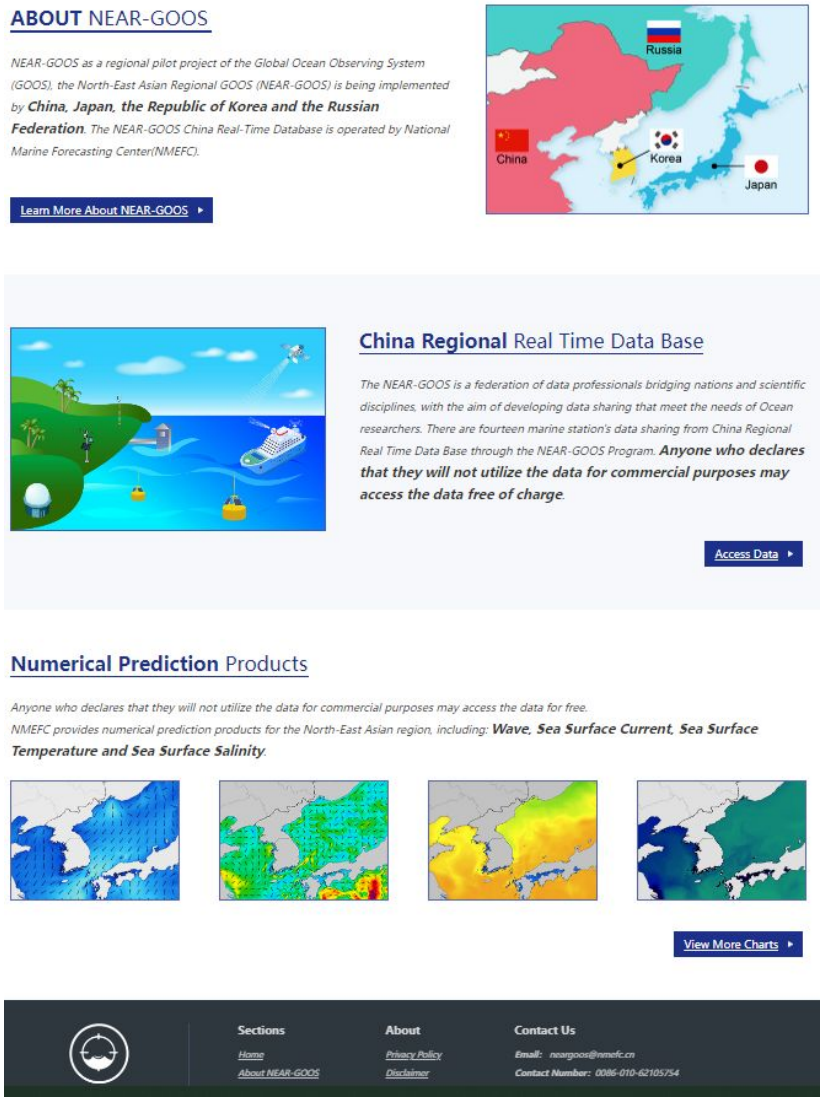
3. Status

* Operational service commenced in Oct. 2023

4. Service

* Maintained by warning information department of NMEFC
* Email: *neargoos@nmefc.cn*

Home Page



Status of Real-time Data Sharing

- **Stations**

* **14** stations located in the coast of China.

Station	LAT	LON
XiaoChangShan	39.23°N	122.67°E
LaoHuTan	38.87°N	121.68°E
ZhiFuDao	37.62°N	121.43°E
Xiaomaidao	36.05°N	120.61°E
Lianyungang	34.78°N	119.43°E
Lusi	32.13°N	121.62°E
Shengshan	30.75°N	122.80°E
Zhenhai	29.98°N	121.73°E
Dachen	28.45°N	121.90°E
Nanji	27.45°N	121.08°E
Beishuang	26.70°N	120.33°E
Xiamen	24.45°N	118.07°E
Dongshan	23.78°N	117.52°E
Zhelang	22.65°N	115.57°E

Layout of Observation Stations

Status of Real-time Data Sharing

1. Meteorological Observation Elements

* Air Temperature
* Sea Level Pressure
* Wind Speed
* Wind Direction

2. Marine Observation Elements

* Average Wave Height
* Average Wave Period
* Max Wave Height
* Significant Wave Height
* Wave Direction
* Sea Surface Temperature
* Sea Surface Salinity

3. Delay Interval

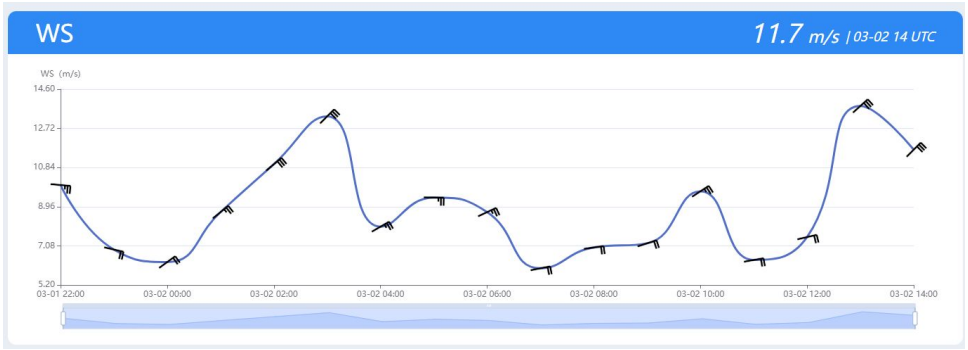
* 20-40 minutes

Table of Latest Real-time Observation Data

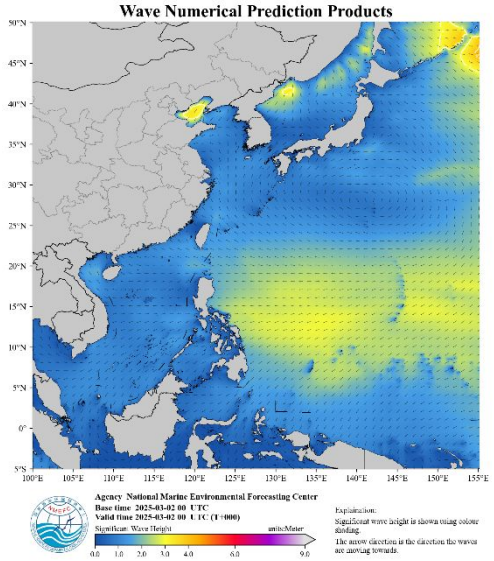
Real-Time Observation Data

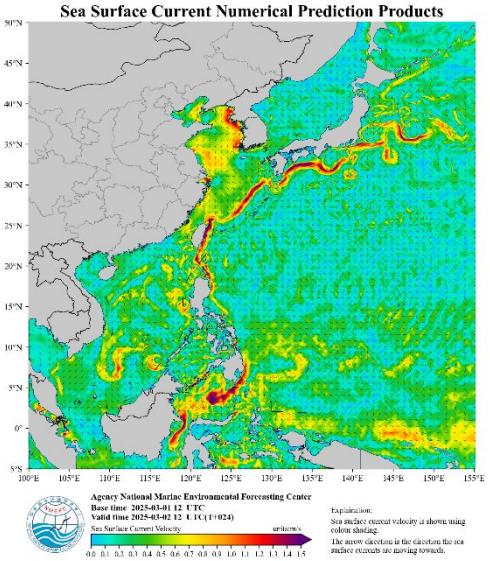
Time (UTC): 2025-03-02 14:47

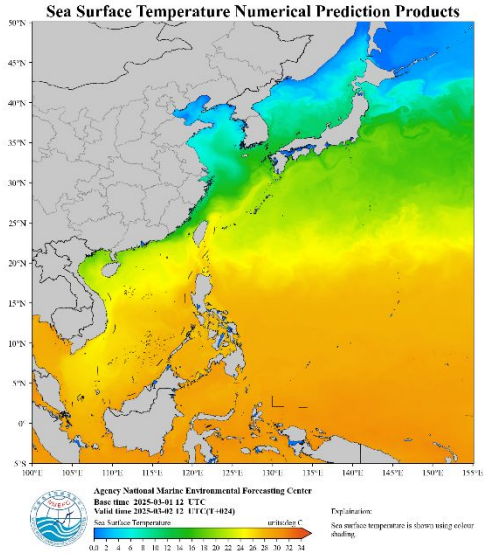
#	Station Name	Observed Time(UTC)	ATMP(℃)	PRES(hPa)	WS(m/s)	WDIR	AWH(m)	APD(s)	MWH(m)	SWH(m)	MWD	SST(℃)	SSS(‰)
1	Beishuang	2025-03-02 14:00:00	14.5	1001.5	8.8	SW	/	/	/	/	/	11.7	30.2
2	Dachen	2025-03-02 14:00:00	15.4	1001.1	10.8	SW	0.8	4.9	1.6	1.2	S	11.5	30.1
3	Dongshan	2025-03-02 14:00:00	18.9	1012.1	0.8	S	/	/	/	/	/	15.8	31.9
4	LaoHuTan	2025-03-02 14:00:00	/	1019.2	10.4	NNW	/	/	/	/	/	/	31.9
5	Lianyungang	2025-03-02 14:00:00	/	1015.9	10.1	NNE	1	6.2	2.5	1.5	ESE	/	29.1
6	Nanji	2025-03-02 14:00:00	14.1	994	7.1	SW	0.9	4.6	1.9	1.2	SSE	11.3	30.2
7	Shengshan	2025-03-02 14:00:00	13.9	1001	5.1	SSE	/	/	/	/	/	12.5	31.7
8	Xiamen	2025-03-02 14:00:00	21.1	1011.9	1	S	/	/	/	/	/	15.7	27.8
9	XiaoChangShan	2025-03-02 14:00:00	/	1019.4	5.2	N	0.3	4.3	0.7	0.5	ENE	/	31
10	Xiaomaidao	2025-03-02 14:00:00	/	1014.3	9.8	NNW	0.7	6	1.8	1.1	ESE	/	30.4
11	Zhelang	2025-03-02 14:00:00	18.9	1011.2	3.3	ENE	/	/	/	/	/	17.7	32.7
12	Zhenhai	2025-03-02 14:00:00	19.3	1006.9	0.8	ESE	/	/	/	/	/	/	/
13	ZhiFuDao	2025-03-02 14:00:00	/	1011.6	11.7	NE	1.5	5.4	3	2.2	NNW	/	28.3
14	Lvsi	2025-03-02 14:00:00	/	/	/	/	/	/	/	/	/	/	/

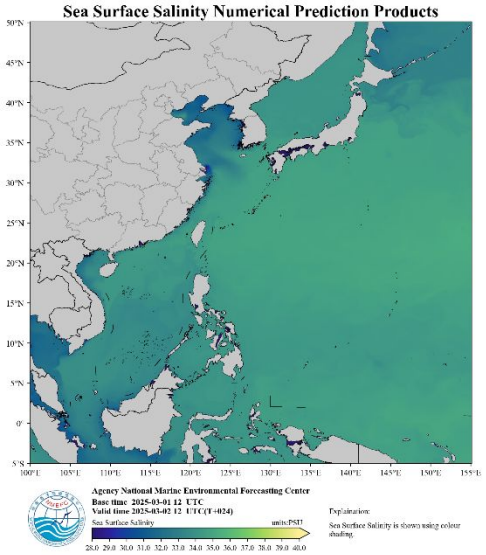


Status of Forecast Products Sharing









1. Numerical Forecasting Products

* Wave (6-hourly)
* Sea Surface Temperature (daily avg.)
* Current (daily avg.)
* Salinity (daily avg.)

2. Area

* Northwest Pacific

3. Time Range

* 7 days

4. Update Frequency

* Sea Surface Temperature: Once per day
* Current: Once per day
* Salinity: Once per day
* Wave: Twice per day

Status of Forecast Products Sharing

Summary of Numerical Forecast Charts

* Total number of products: 42,721 (From Oct. 2023 to Feb. 2025)
* Total data size: 44.9 GB (From Oct. 2023 to Mar. 2025).

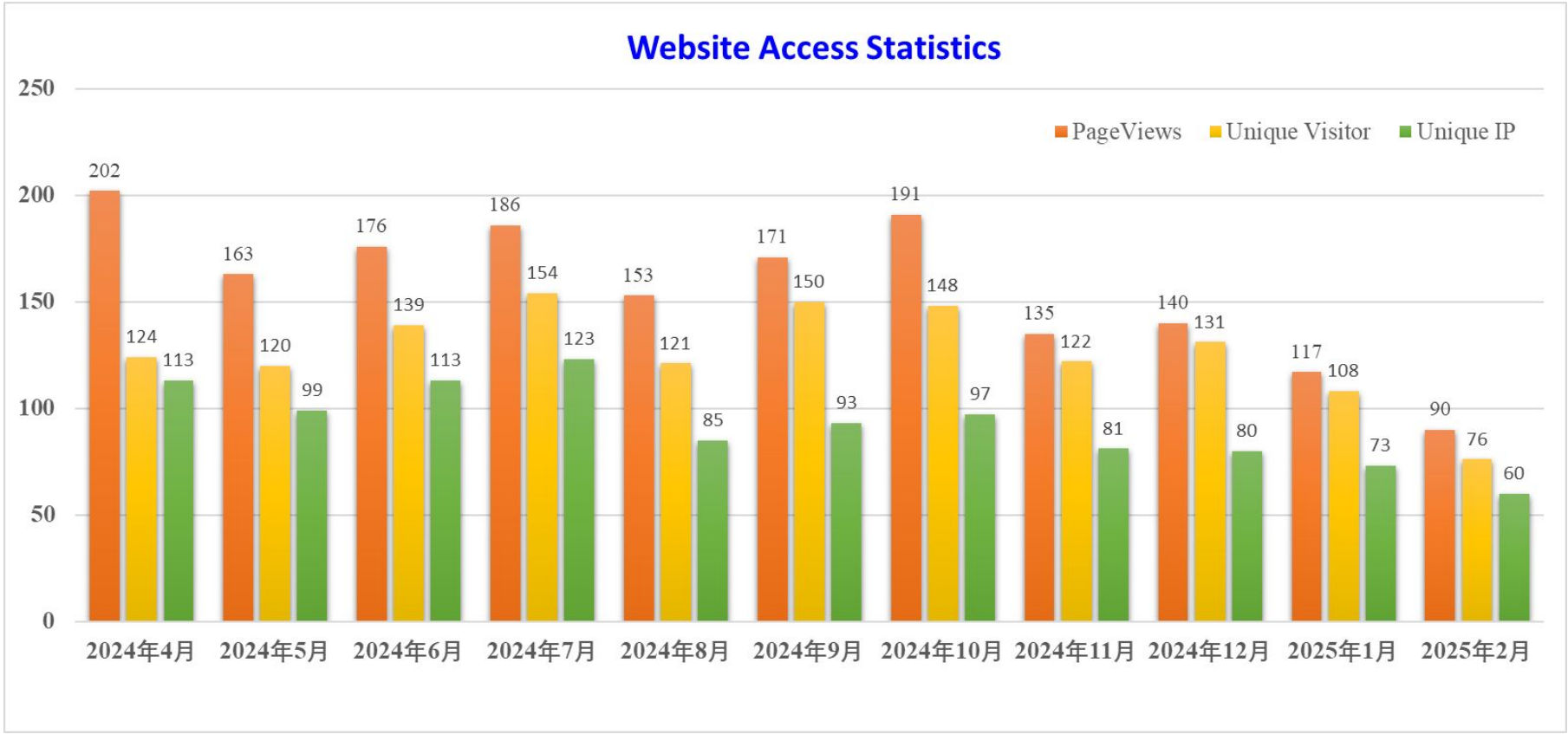
Parameters	Number of Charts	Data Size (MB)	Start Date (for statistics)	End Date (for statistics)
Wave	31,186	32,457	10 Oct. 2023	10 Mar. 2025
Sea Surface Temperature	3,845	3,071	10 Oct. 2023	10 Mar. 2025
Sea Surface Current	3,845	7,709	10 Oct. 2023	10 Mar. 2025
Sea Surface Salinity	3,845	2,739	10 Oct. 2023	10 Mar. 2025

Status of Forecast Products Sharing

Summary

* Time period: From Apr. 2024 to Feb. 2025
* Top 5 countries in terms of website visit rankings excluding China:

United States, Japan, Korea, United Kingdom and Russia



Future Plan

* Ensure the stable operation of the China Real-Time Database to facilitate the sharing of real-time observational data and numerical forecast products.

谢谢

ありがとうございます

감사합니다

Спасибо

Thank you