



Global Ocean Observing System



# Indonesia NFP Reports

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Indonesia Agency for Meteorology, Climatology, and Geophysics  
(BMKG)

# Focus Group Discussion

**Strengthening the Coordination of Ocean Observation in Indonesia**, October 9, 2025

in conjunction with Annual Meeting of Indonesian Association of Oceanographer



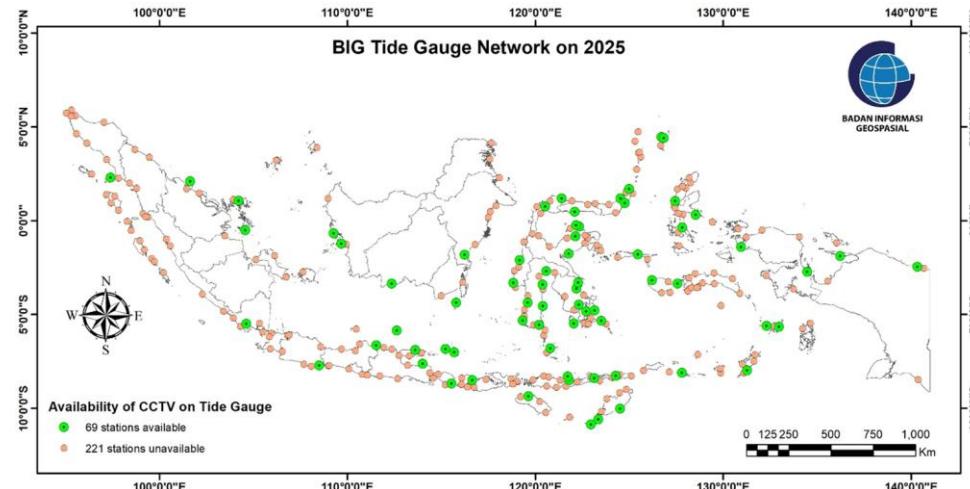
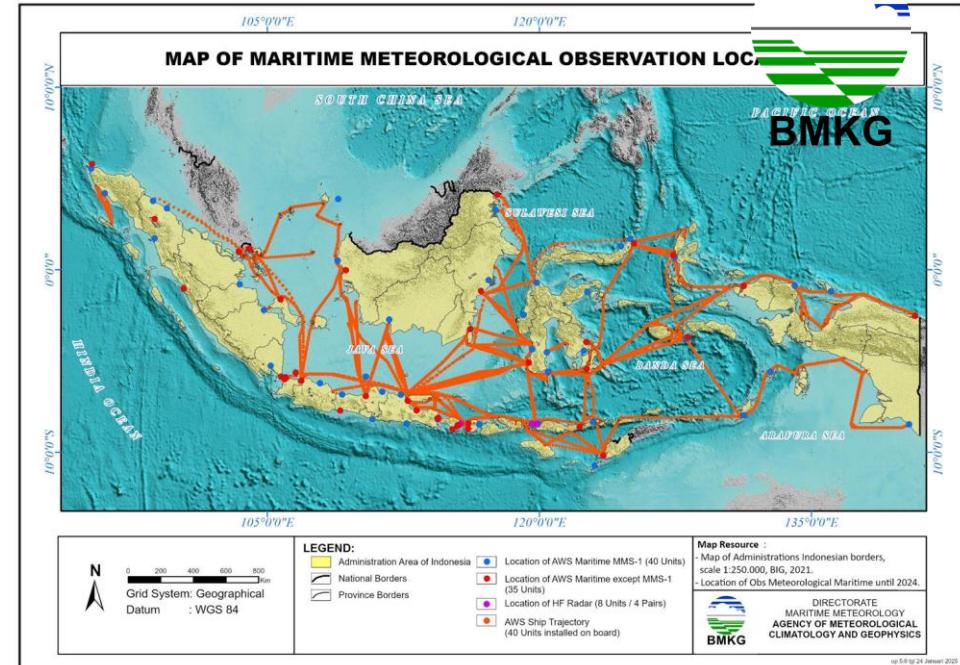
- Attended by more than 200 participants, nearly 100 of whom were onsite from Coordinating Ministry of Infrastructure, BMKG, National Research Institution (BRIN), Indonesian Navy, Universities, local government, private companies

# 1. National Updates on Ocean Observations

Indonesia continually strengthens its ocean observation capabilities by expanding the deployment of integrated meteorological and oceanographic equipment.

## a. Current Ocean Observations Status in Indonesia:

- More than 400 integrated sea level monitoring sensors are currently in operation.
- A network of 75 Maritime Weather Stations is operating along the national coastline.
- 40 Vessel AWS units have been installed on board ships.
- Since 2022, 45 floats and 60 drifters have been deployed.
- Several cruises are led by the Indonesian Navy, the National Research Institute, and universities, in collaboration with both national and international institutions.



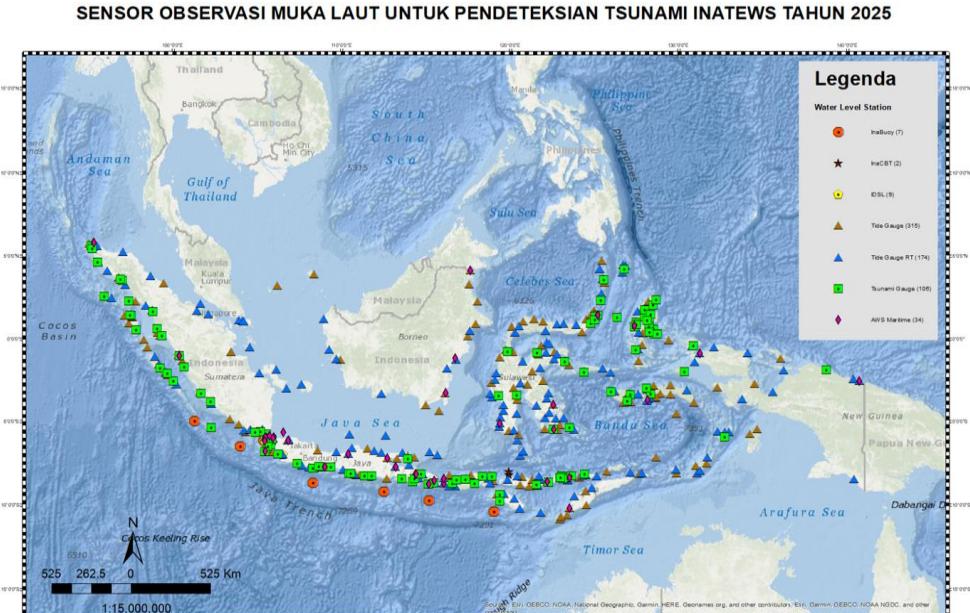
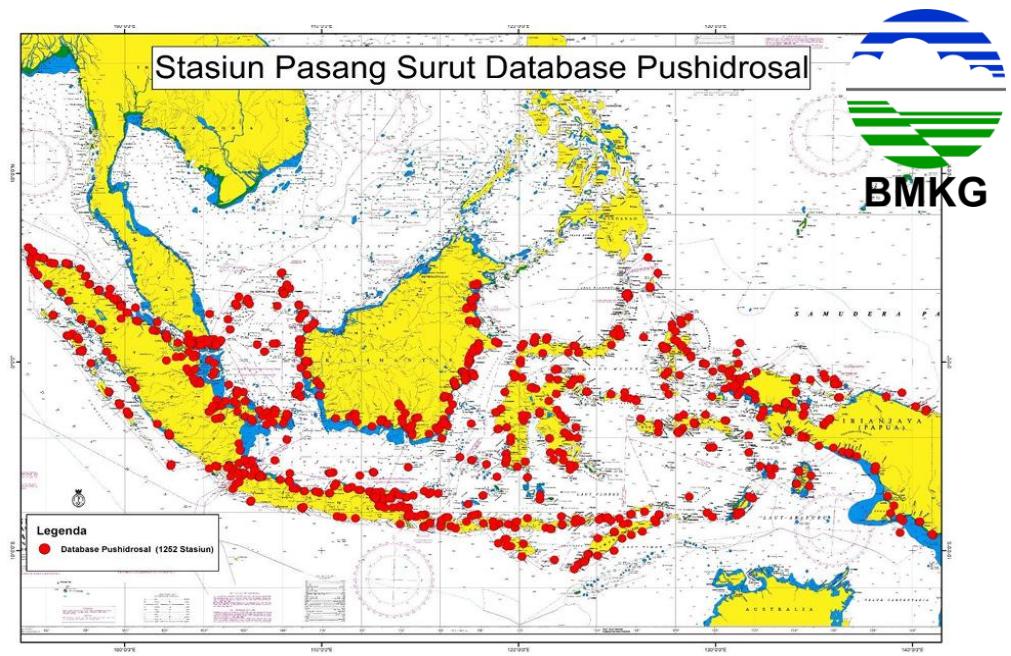
# 1. National Updates on Ocean Observations

## b. Challenges

- Vast and complex maritime territory
- Interoperability and data standardization
- High maintenance cost
- Risk of Vandalism

## c. Future Plans

- Expand Indonesia's ocean observing infrastructure
- Integration and Standardization of National Data
- Synergy in Planning and Execution of Observation Operations
- Development of Multi-Hazard Observation Systems and Innovative Technology



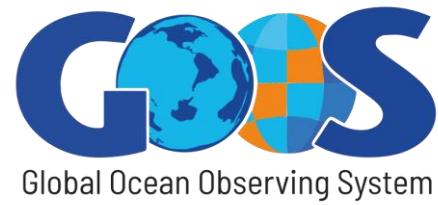
## 2. Reflection on the NFP's role

- Indonesia's vast maritime domain highlights both the urgency and complexity of sustaining ocean observations
- Ensuring data interoperability and integration remains a critical challenge that determines the effectiveness of national contributions to the global system.
- Future expansion of observation networks must be aligned with national service needs
- The effectiveness of GOOS will ultimately depend on how well national efforts are coordinated and translated into actionable services for society.
- International collaboration is essential to overcoming technological and financial gaps.

### 3. Support Needed

To successfully implement our ocean observation initiatives, we seeks support from **GOOS** in the following areas:

- Provide technical support to align national systems with GOOS standards.
- Revitalize Regional GOOS activities to strengthen operational presence in the region.
- Support stronger international cooperation to accelerate national implementation and capacity.
- Serve as a platform to align national priorities with global goals while delivering reciprocal benefits for Indonesia.



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# Thank you

[goosocean.org](http://goosocean.org)



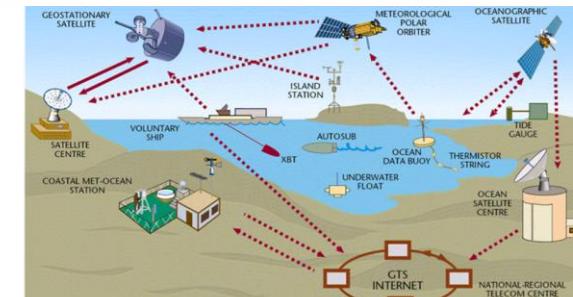
Intergovernmental  
Oceanographic  
Commission



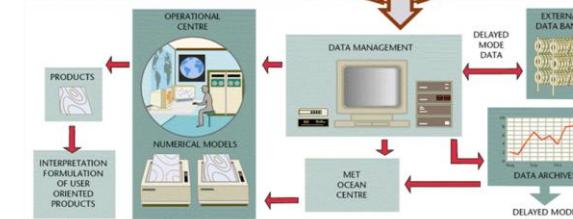
WORLD  
METEOROLOGICAL  
ORGANIZATION



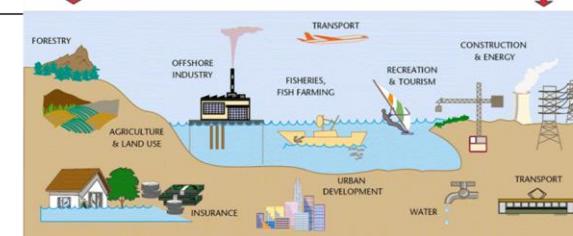
### Data Collecting



### Data Management & Modeling



### Product Generating



*Together, let us achieve a Systematic and Integrated  
Ocean Observation System for Indonesia*