Global South Perspectives on Ocean Modelling

Rut Apriana Kartini Lamma

Climatologist | BMKG Indonesia

East Nusa Tenggara Climatology Station
Meteorology, Climatology and Geophysics Agency (BMKG), Indonesia

DISCUSSION SESSION

Perspectives from the Global South on the Development and Use of Ocean Models and Numerical Modelling Tools

CORE MESSAGE

Access to model data is becoming easier, but technical capacity, computing resources, and opportunities for deeper participation remain important challenges.

From Access to Participation: A User Perspective from Indones

Discussion starter — based on operational and research experience with modelling products and tools

01 ACCESS

- Model data are increasingly accessible through open data platforms.
- Copernicus has been useful for obtaining model data.
- Documentation and online information are increasingly helpful for new users.

02 CAPACITY & COMPUTING

- Technical knowledge and training remain important entry barriers.
- Computing resources and access to HPC are major constraints.
- Software environments, licensing, cost and technical support can add complexity.

03 REGIONAL NEEDS

- Existing models are useful for many operational applications.
- Local characteristics still matter when applying modelling information.
- Coastal and mountainous environments in East Nusa Tenggara (NTT) can introduce strong local influences.

04 PARTICIPATION

- More opportunities for researchers from the Global South to participate in the modelling community would be valuable.
- Knowledge exchange, training, networking and shared resources can build capacity.
- Participation can help regional users contribute feedback and perspectives.

Perspective synthesized from Rut's operational, research, training and community experiences.

TAKE-HOME MESSAGE

The next step is not only improving access to models, but creating more opportunities for researchers from the Global South to learn, contribute, and help shape future development.