

# **Introducing Indonesia Marine Biogeochemistry Forum (IMBF): Mainstreaming marine biogeochemistry research and synergizing IMBeR's global objectives**

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## **Abstract**

The Indonesia Marine Biogeochemistry Forum (IMBF) is a new collaborative initiative dedicated to advance marine biogeochemistry research in Indonesia while aligning with the global objectives of the Integrated Marine Biosphere Research (IMBeR) program. Indonesia's marine environment plays a crucial role in regional and global biogeochemical cycles, yet it faces challenges such as ocean acidification, deoxygenation, eutrophication, and anthropogenic pressures. Addressing these issues requires an integrated, interdisciplinary approach that connects research, policy, and sustainable ocean management. IMBF focuses on mainstreaming marine biogeochemistry by fostering collaboration among researchers, institutions, and stakeholders. Its key activities include marine biogeochemistry literacy programs (webinars, scientific discussions), capacity-building programs (short courses, technical training), data-sharing initiatives, and interdisciplinary joint research. These efforts enhance understanding of key biogeochemical processes and their implications for ocean health while strengthening Indonesia's role in regional and global marine research networks. By supporting IMBeR's global objectives, IMBF contributes to research on climate-ocean interactions, biogeochemical variability, and ecosystem resilience. The forum also provides a platform for young scientists and early career ocean professionals (ECOPs) to engage in international collaborations and knowledge exchange. This presentation highlights IMBF's mission, core activities, and strategic roadmap for integrating Indonesian marine biogeochemistry research into the broader IMBeR framework, ensuring a coordinated and impactful approach to ocean sustainability.