

Deep-sea mining and its impact on marine ecosystems and biodiversity

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Abstract:

The development in ocean mining and processing technology have led to a new boom in deep-sea mining as land mineral resources are being exhausted and the demand for metals has risen. As of 2022, the International Seabed Authority has signed 31 contracts to explore deep-sea mineral deposits. Deep-sea mining has again triggered controversies. On one hand, proponents argue that deep-sea mineral deposits can replace fossil fuels such as coal and save the planet. Opponents, on the other hand, argue that deep-sea mining will damage deep-sea ecosystems and their biodiversity. The author will expound the causes and effects of deep-sea mining.

Key words: deep-sea mining, deep sea ecosystem, biodiversity, International Seabed Authority, the United Nations Convention on the Law of the Sea

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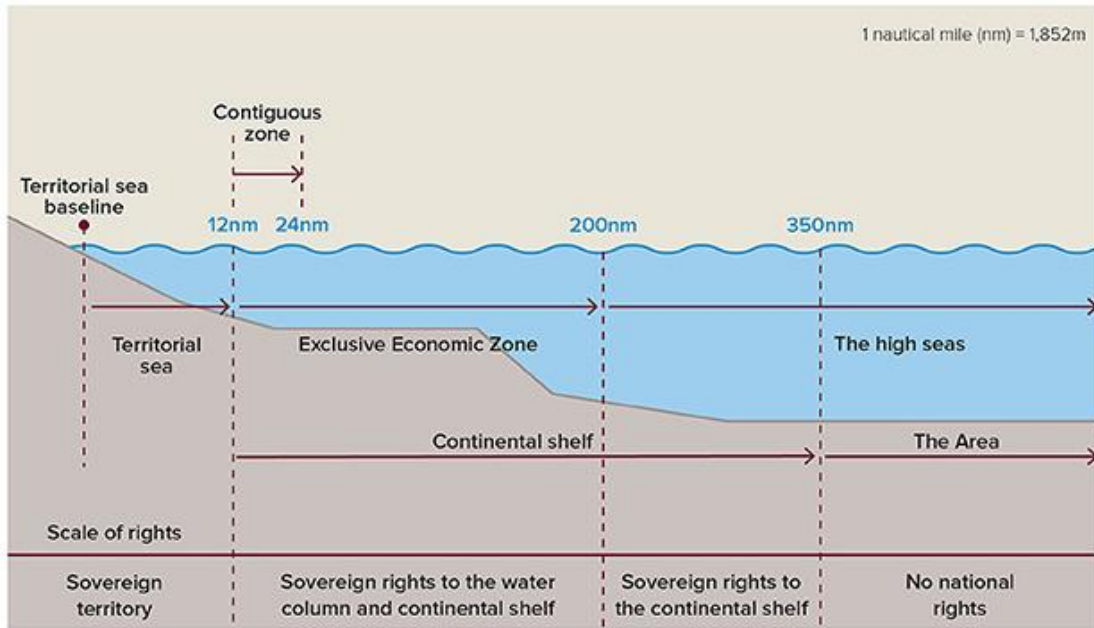


Photo source: Frontier



Manganese nodules in deep water off Hawaii. Photograph: OAA Office of Ocean Exploration and Research

