

Welcome to this week's presentation & conversation hosted by the **Canadian Association for the Club of Rome**, a Club dedicated to intelligent debate & action on global issues.

The views and opinions expressed in this presentation are those of the speaker & do not necessarily reflect the views or positions of CACOR.

The Imminent Threat of Deep Sea Mining.

Our speaker today is Julia Barnes is an award-winning documentary filmmaker. She is the director of *Sea of Life* (2017) and *Bright Green Lies* (2021). Julia is a biocentric environmentalist whose work currently focuses on preventing deep sea mining.

DESCRIPTION: As the ocean struggles under the assaults of industrial fishing, ocean acidification, warming, and pollution, corporations are rushing to exploit it in a new and dangerous way. They want to turn the deep sea into the largest contiguous mining area on the planet, destroying fragile habitats while polluting the entire water column with toxic waste. Unlike most environmental threats, we have an opportunity to stop deep sea mining before it begins—and we must!

The presentation will be followed by a conversation, questions, & observations from the participants.

CACOR acknowledges that we all benefit from sharing the traditional territories of local Indigenous peoples (First Nations, Métis, & Inuit in Canada) and their descendants.



Website: canadiancor.com

Twitter: [@cacor1968](https://twitter.com/cacor1968)

YouTube: [Canadian Association for the Club of Rome](https://www.youtube.com/channel/UC...)

2023 Sep 13 Zoom #162





























PRO WATER

WATER

NO PIPELINES!
KEEP IT IN THE GROUND

NO PIPELINES
ICE

WE EXIST
WE RESIST
WE RISE

NATIVE NATIONS
RISE

CLIMATE

SURVIVOR
OF OIL DRILLING
IN THE GROUND

NO PIPELINES!
KEEP IT IN THE GROUND

WE RESIST W

STAFF

STAFF

TURN

LET'S DO THIS

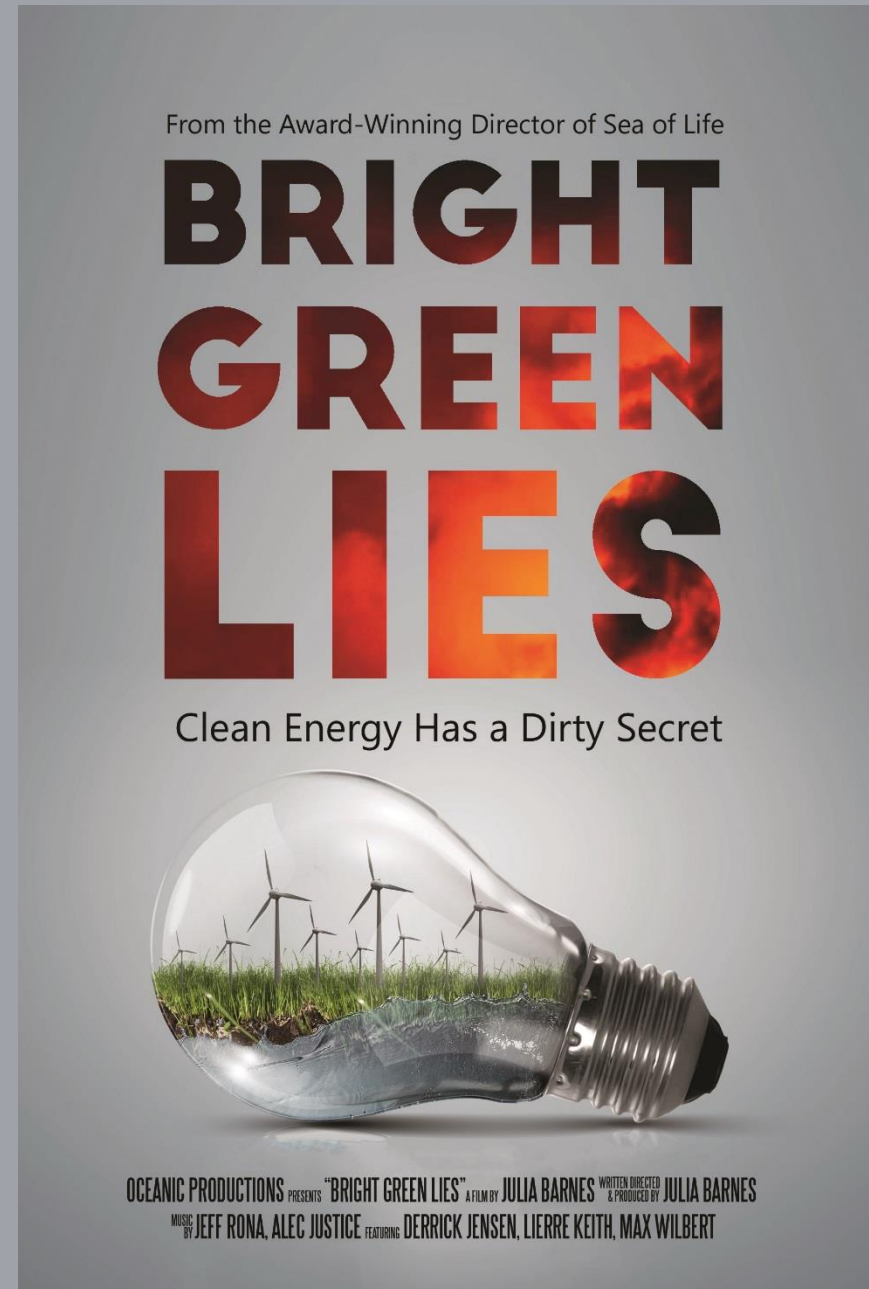
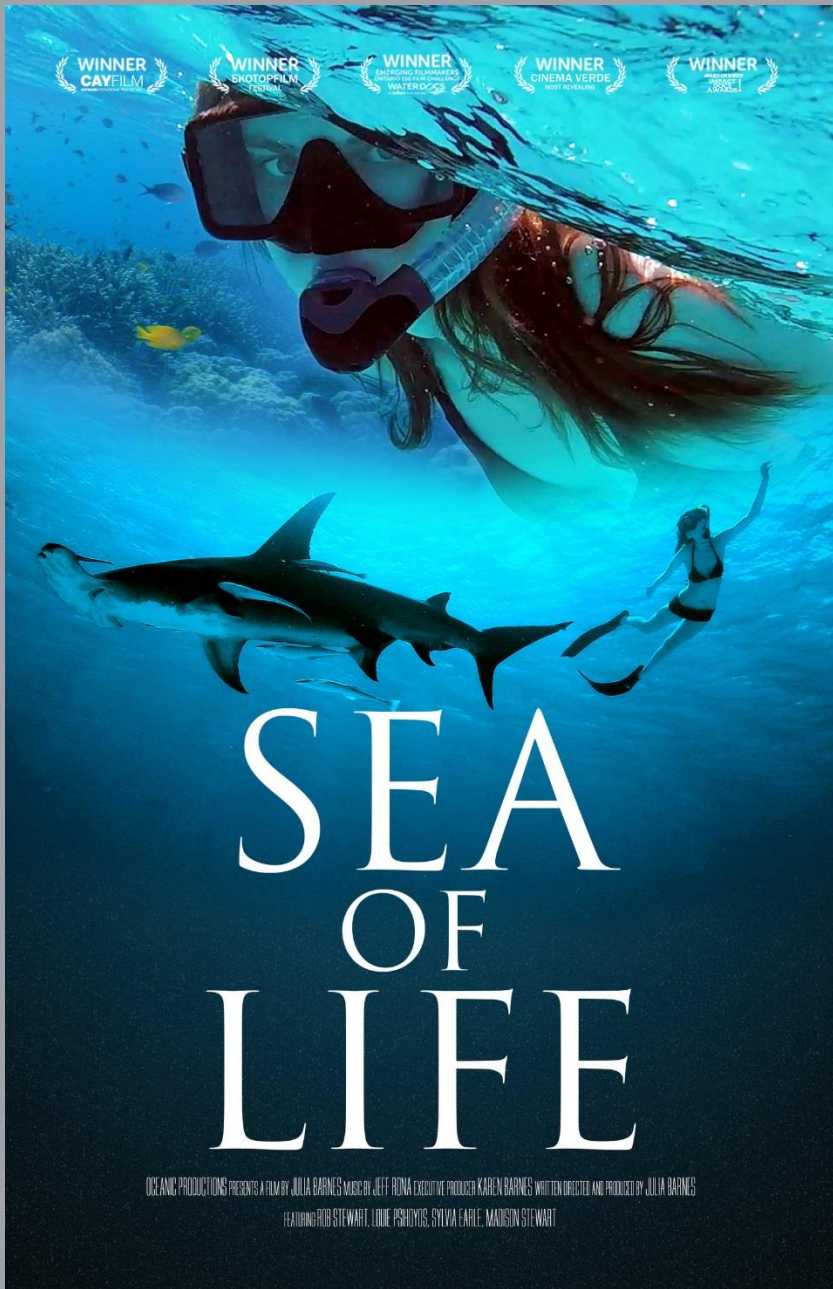


ACT
NOW



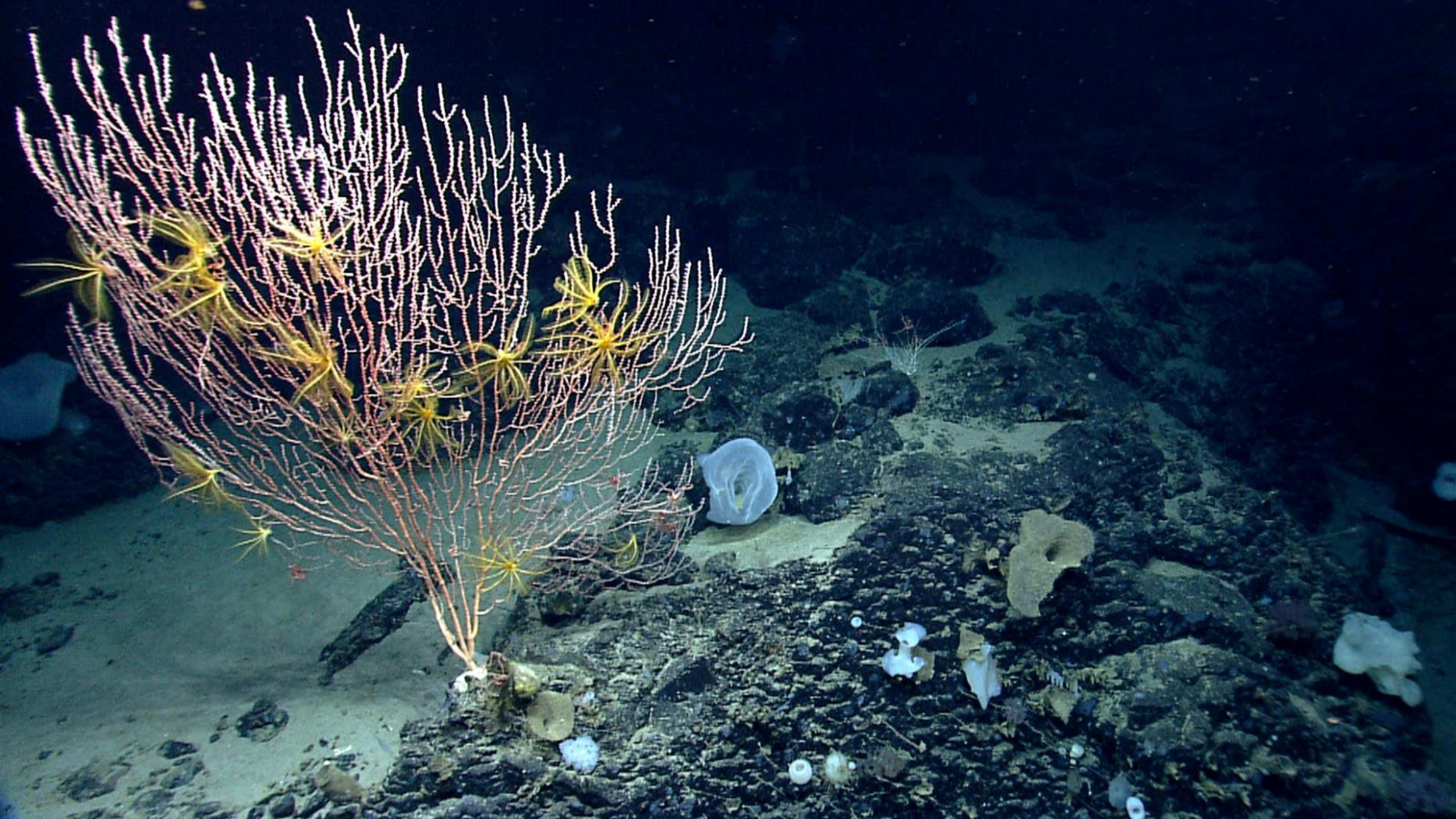




















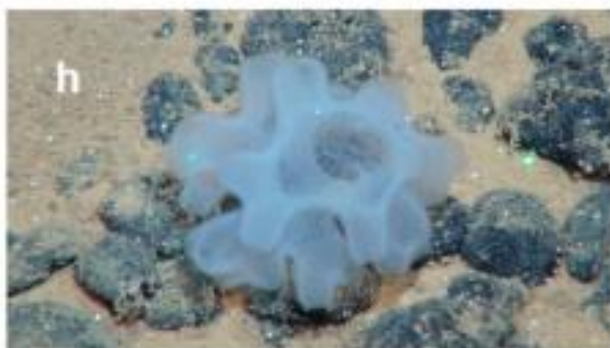






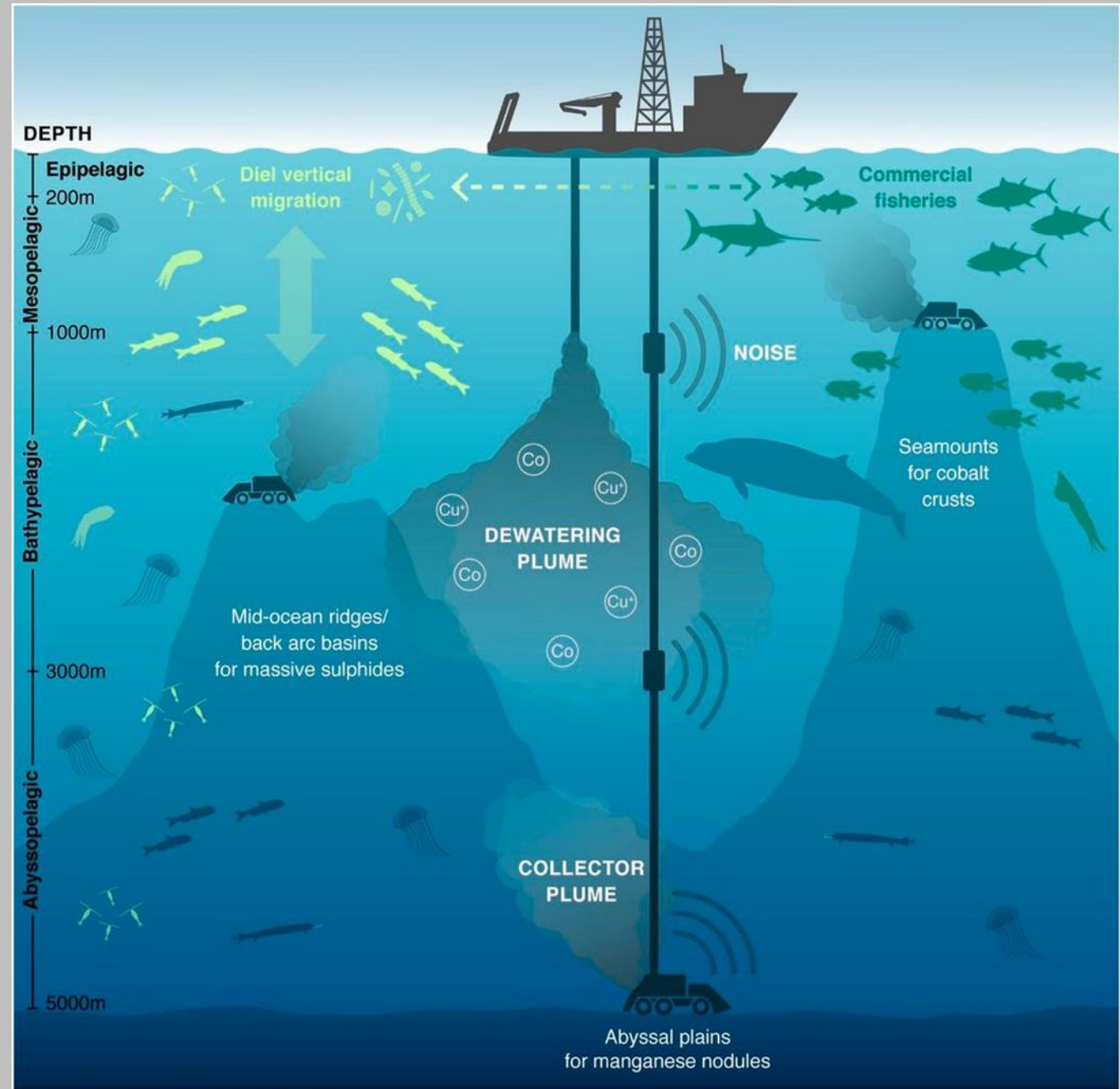




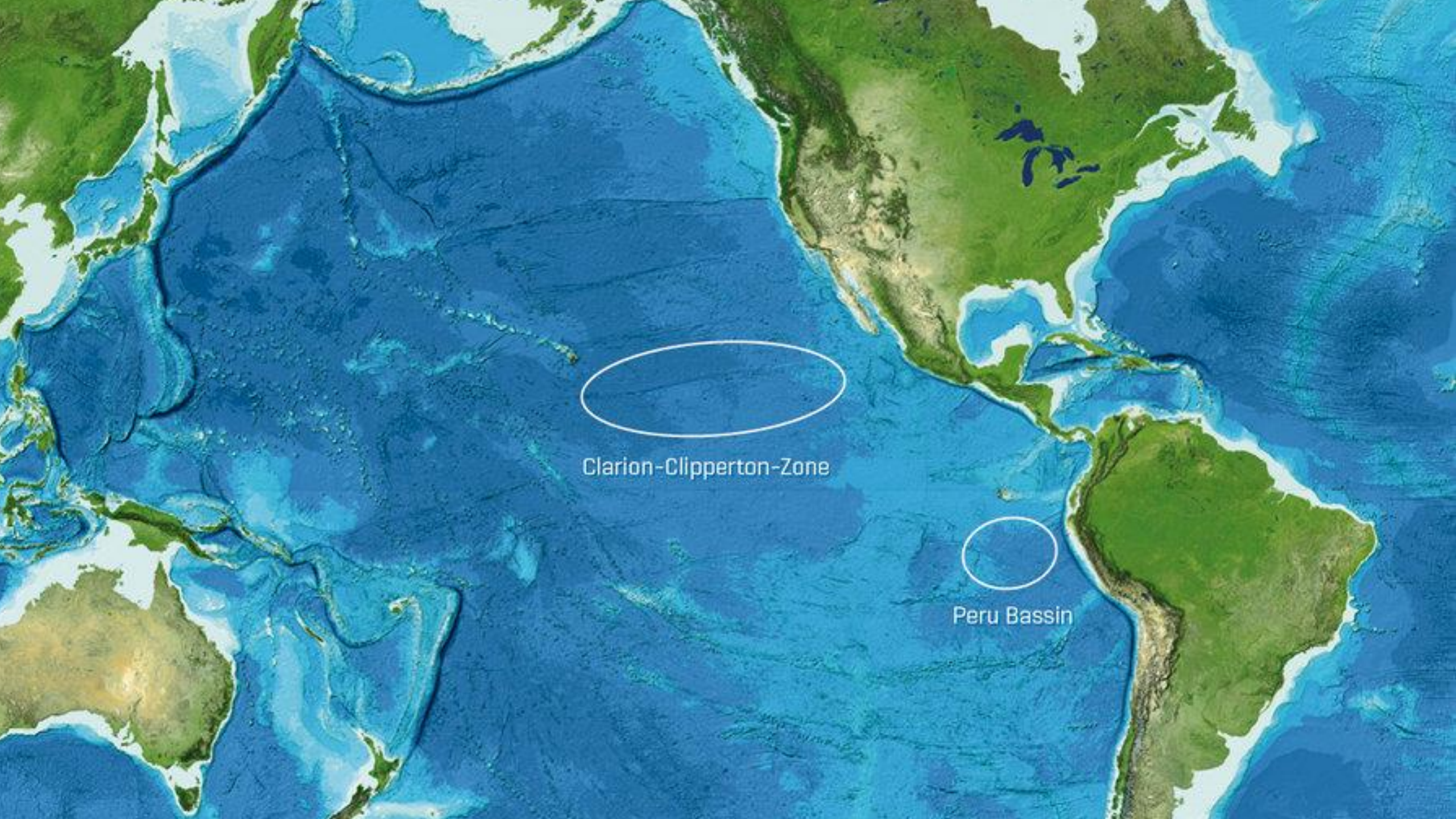


Likely outcomes of seabed mining:

- Destruction of habitat and marine life
- Disturbance from constant noise and light
- Acidification of the deep sea
- Species extinction
- Sediment plumes with potential to pollute the entire water column
- Toxins and heavy metals that accumulate in the food web
- Radioactive waste
- Increased carbon emissions
- Increased turbidity
- Alteration of geochemical processes that underpin life in the ocean

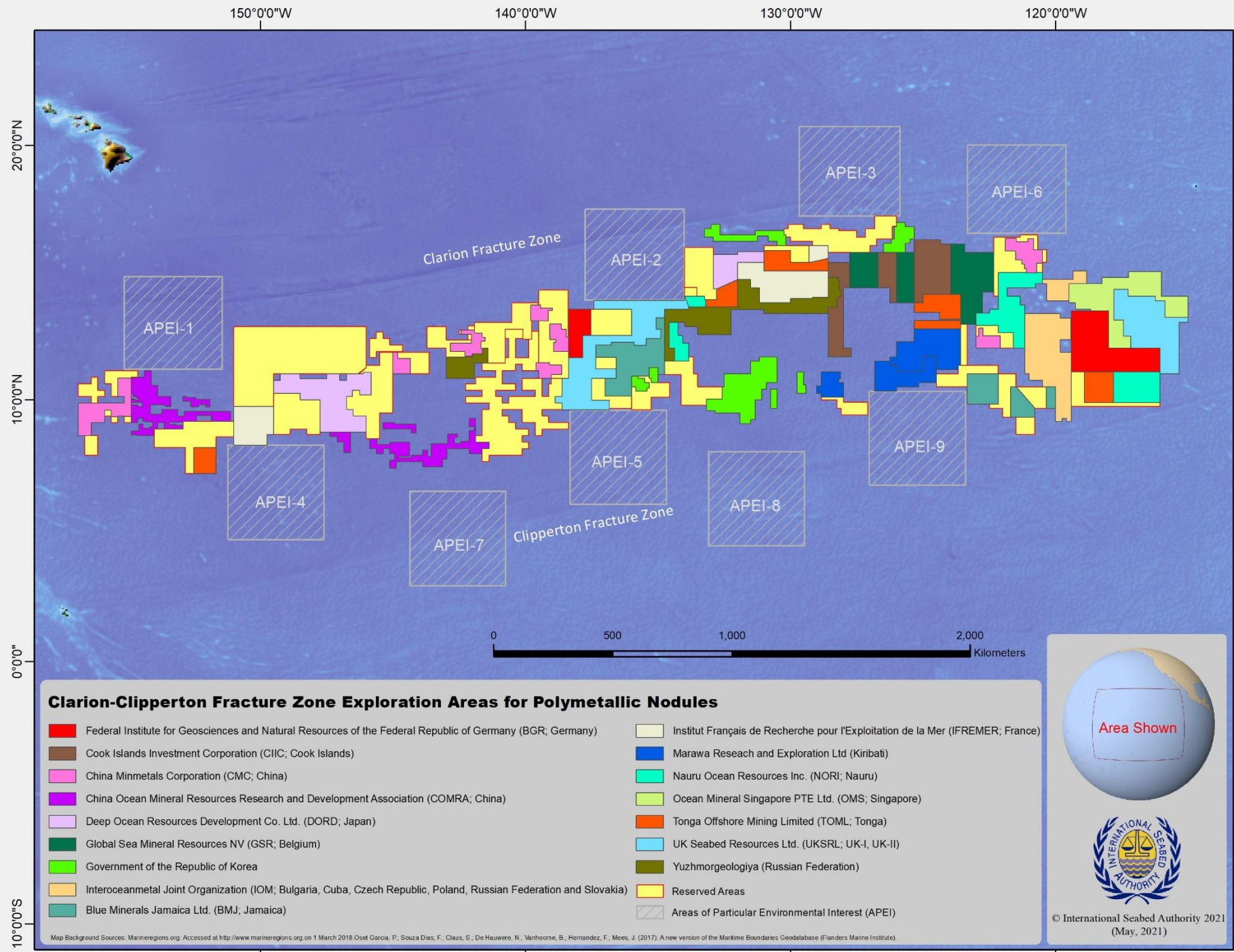






Clarion-Clipperton-Zone

Peru Basin

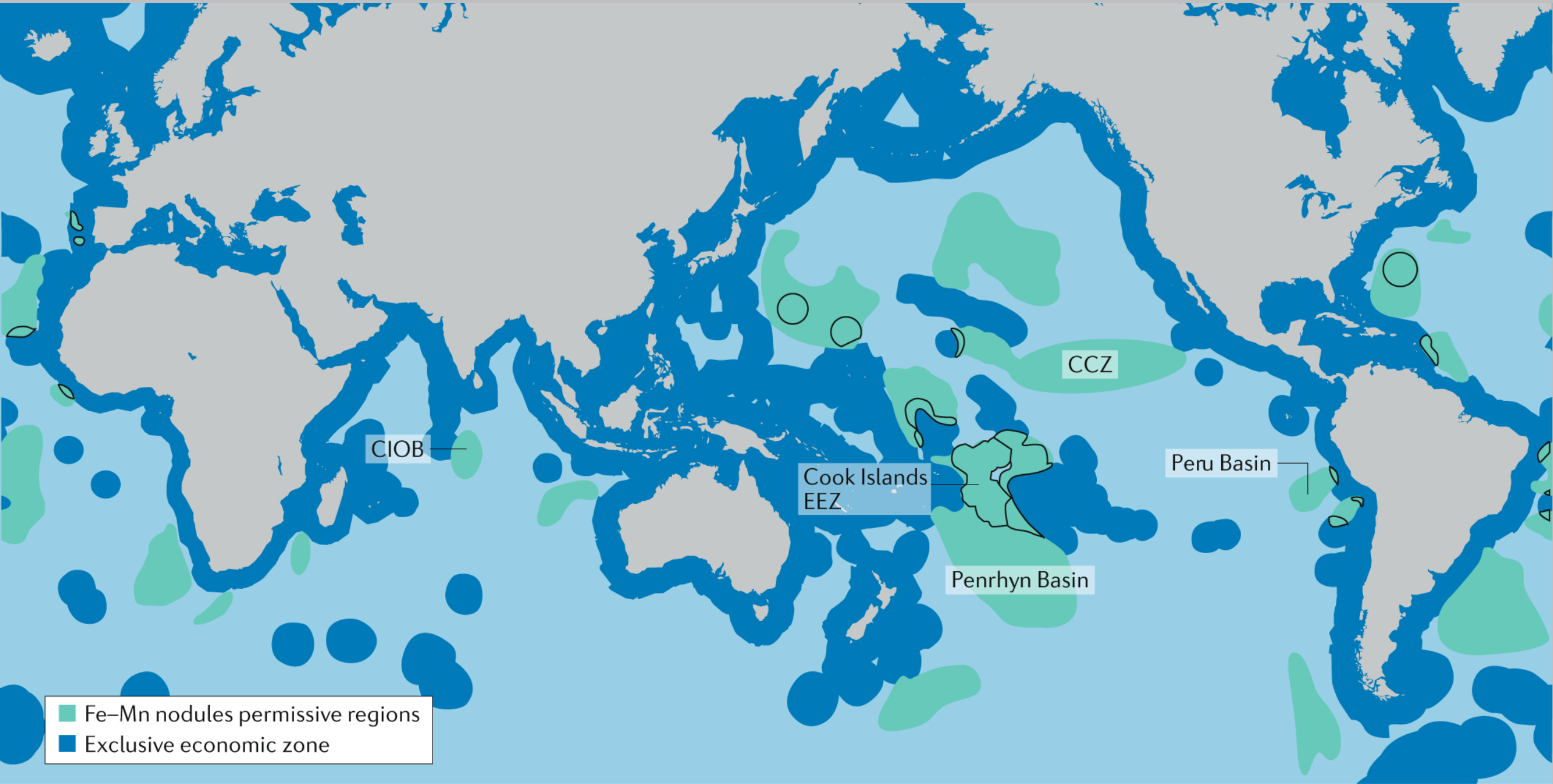


Clarion-Clipperton Fracture Zone Exploration Areas for Polymetallic Nodules

- | | |
|---|--|
| Federal Institute for Geosciences and Natural Resources of the Federal Republic of Germany (BGR; Germany) | Institut Français de Recherche pour l'Exploitation de la Mer (IFREMER; France) |
| Cook Islands Investment Corporation (CIIC; Cook Islands) | Marawa Research and Exploration Ltd (Kiribati) |
| China Minmetals Corporation (CMC; China) | Nauru Ocean Resources Inc. (NORI; Nauru) |
| China Ocean Mineral Resources Research and Development Association (COMRA; China) | Ocean Mineral Singapore PTE Ltd. (OMS; Singapore) |
| Deep Ocean Resources Development Co. Ltd. (DORD; Japan) | Tonga Offshore Mining Limited (TOML; Tonga) |
| Global Sea Mineral Resources NV (GSR; Belgium) | UK Seabed Resources Ltd. (UKSRL; UK-I, UK-II) |
| Government of the Republic of Korea | Yuzhmorgeologiya (Russian Federation) |
| Interoceanmetal Joint Organization (IOM; Bulgaria, Cuba, Czech Republic, Poland, Russian Federation and Slovakia) | Reserved Areas |
| Blue Minerals Jamaica Ltd. (BMJ; Jamaica) | Areas of Particular Environmental Interest (APEI) |

Map Background Sources: Marineregions.org. Accessed at <http://www.marineregions.org> on 1 March 2018. Oset Garcia, P.; Souza Dias, F.; Claus, S.; De Hauwere, N.; Vanhoorne, B.; Hernandez, F.; Mees, J. (2017). A new version of the Maritime Boundaries Geodatabase (Flanders Marine Institute).

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(May, 2021)



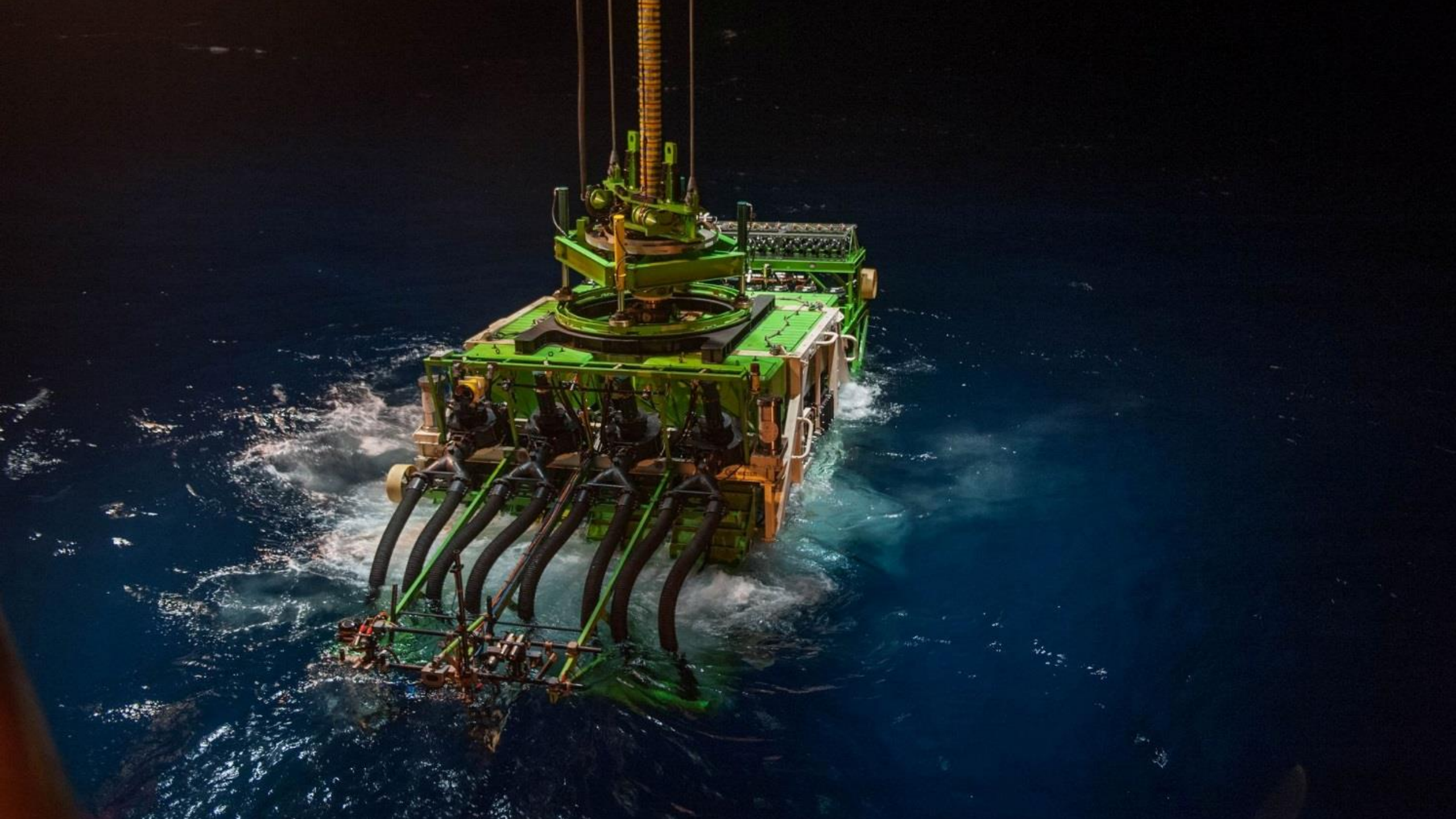
- Polymetallic nodules
- Polymetallic sulphides / vents
- Cobalt-rich crusts
- Exclusive economic zones













International Seabed Authority
28th Session 2023



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