

The seabed - a no-go zone for mining

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West Coast Development Foundation

Alliance of Solwara Warriors

Turning Down the Heat: Can We Mine Our Way Out of the Climate Crisis?

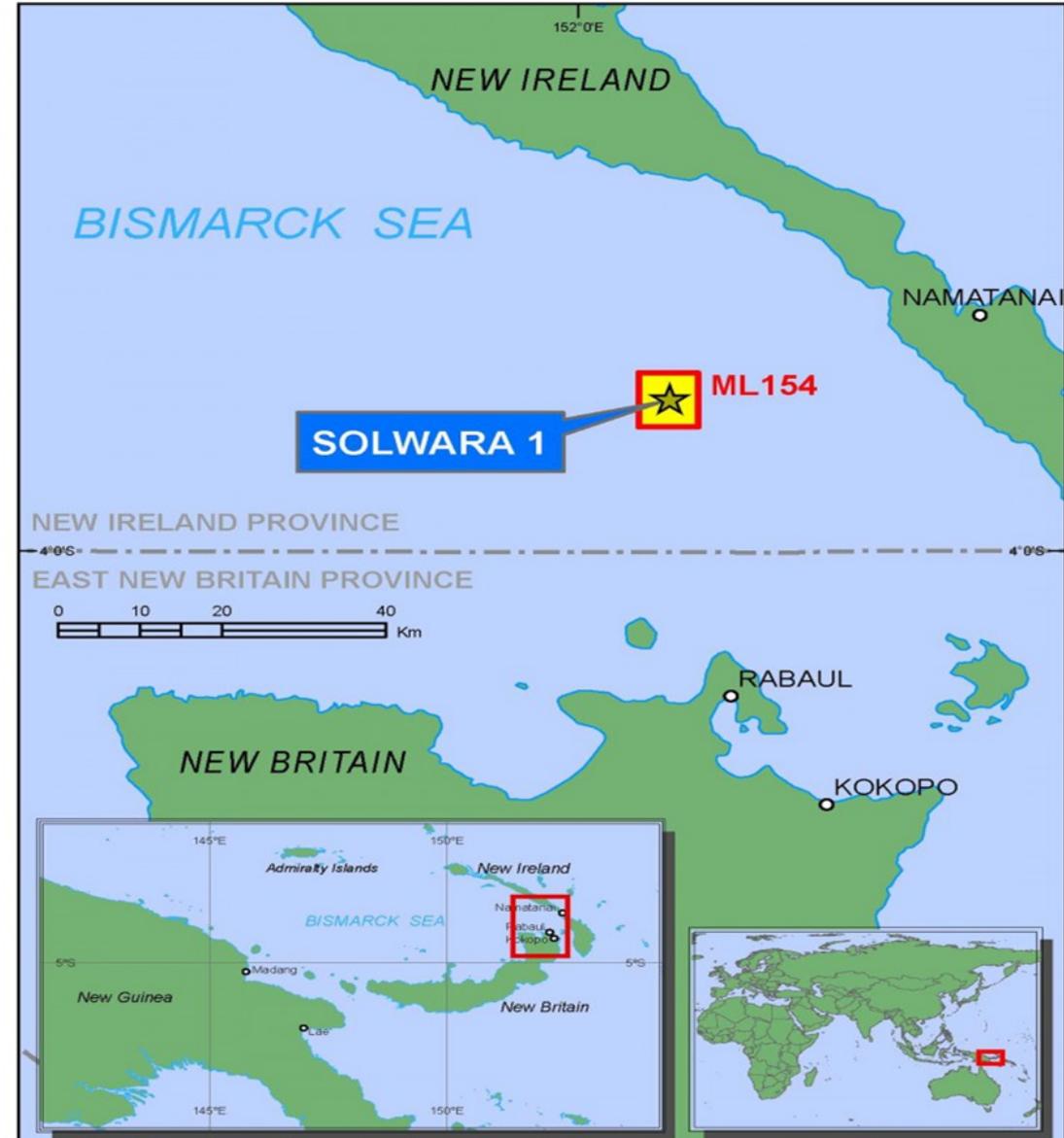
Ottawa, Canada, November 14, 2019



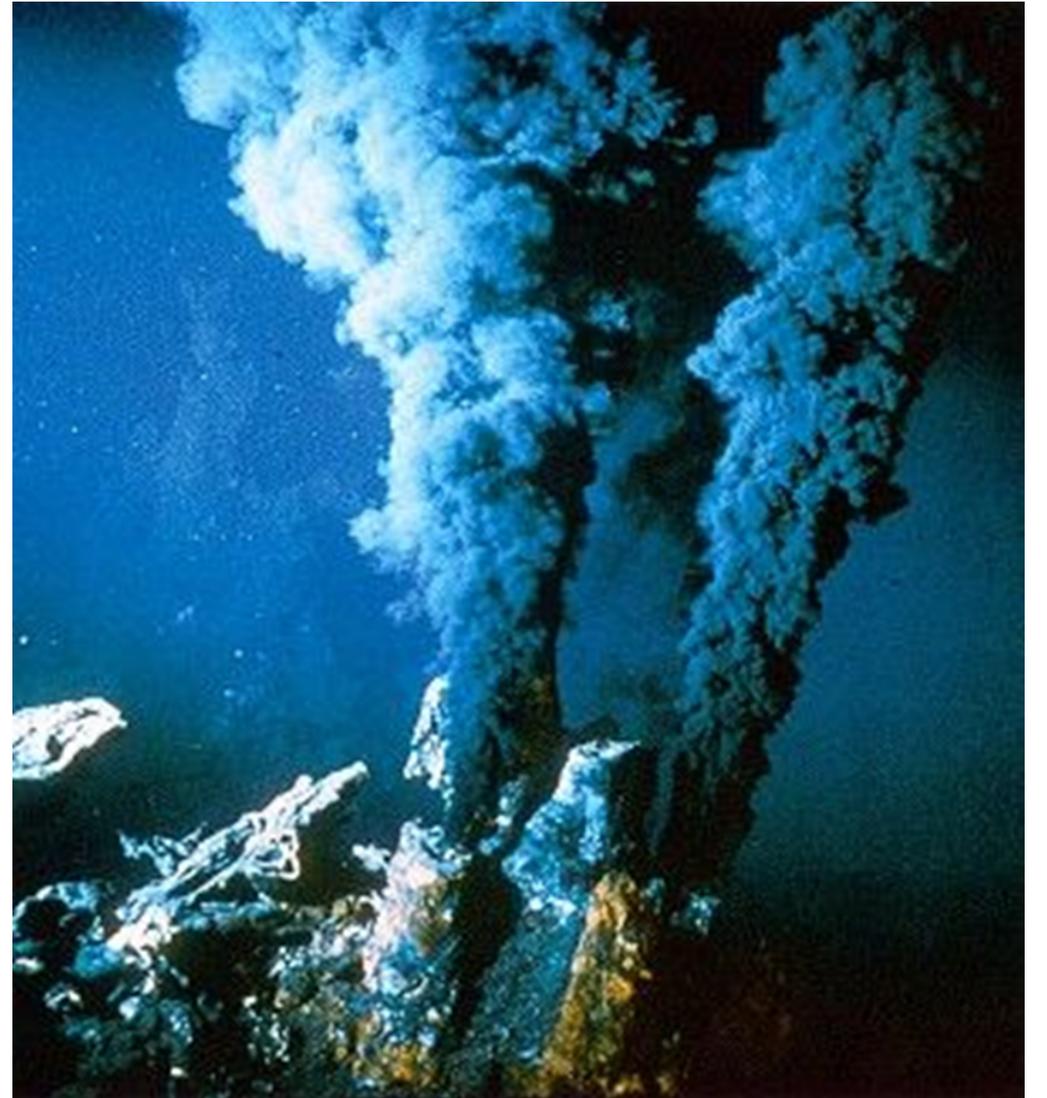
My Island Home

[2018](#)).

Location of the Solwara **1** deposit
(source: [Nautilus Minerals](#),



Hydrothermal Vents – cradles of life on earth



Hydrothermal Vents - Unique Life Forms



Nautilus's Deep Sea Mining Equipment



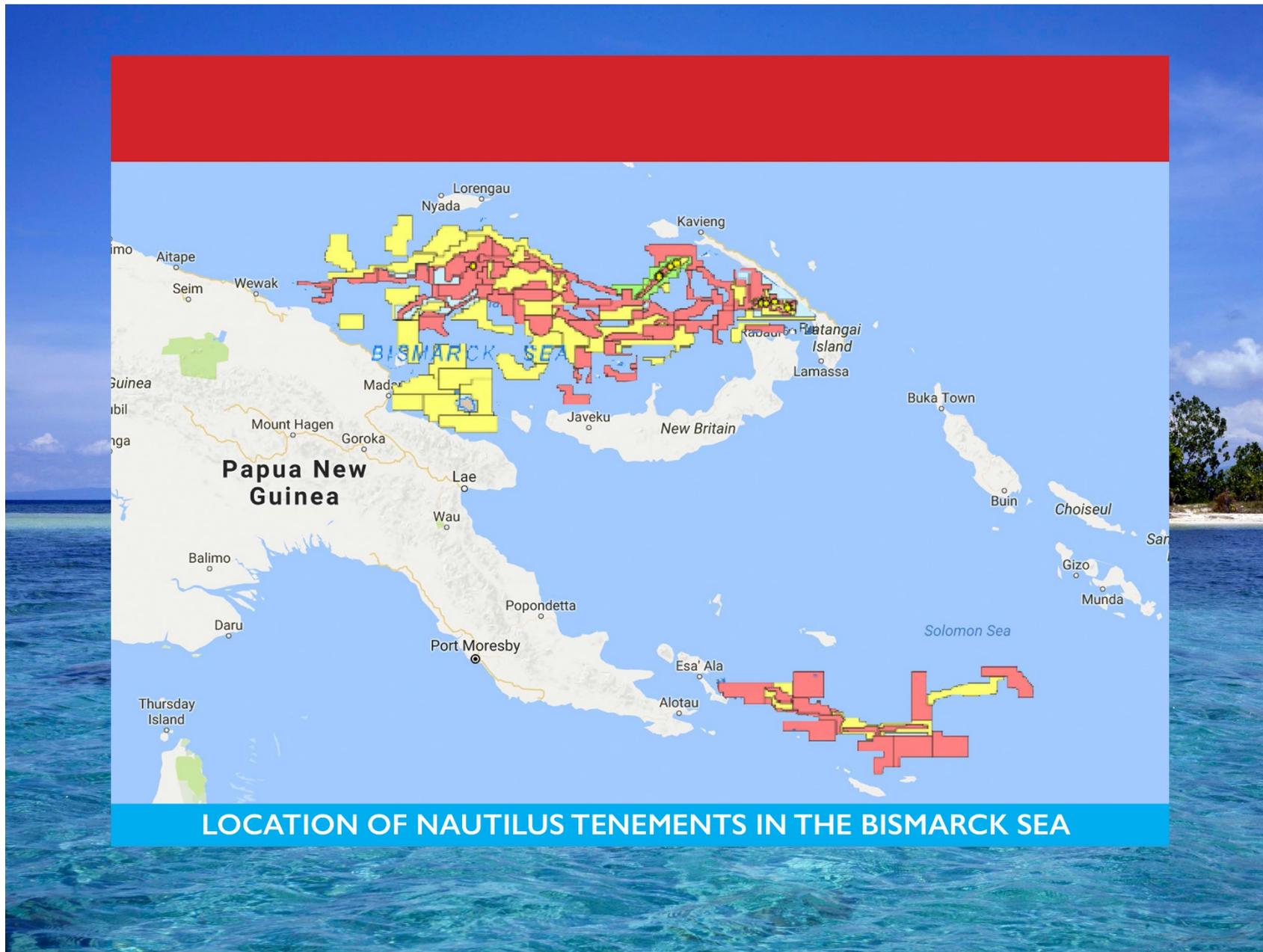
Impacts of exploration by Nautilus



Opposition to Nautilus's Solwara 1 Project



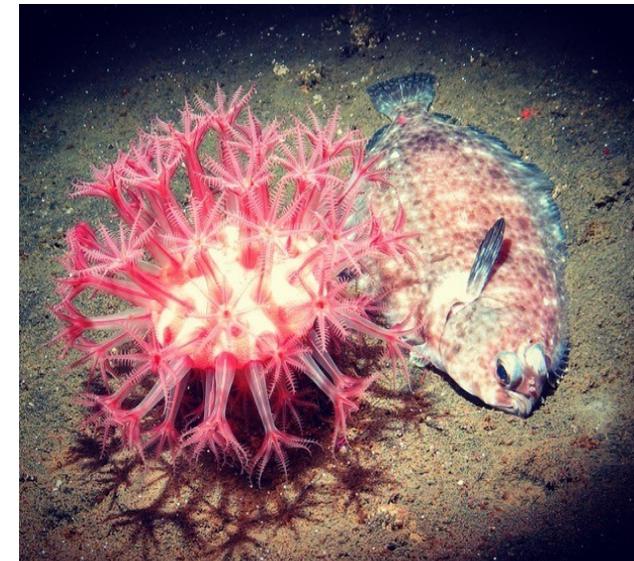
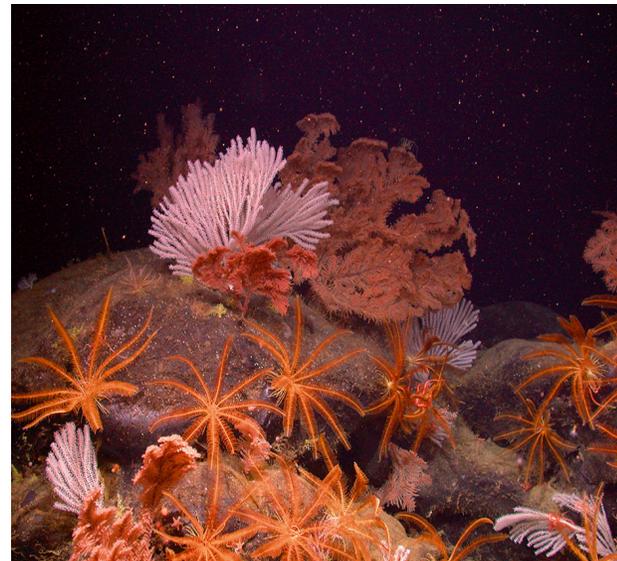
Other Nautilus concessions in Papua New Guinea



Polymetallic Nodules

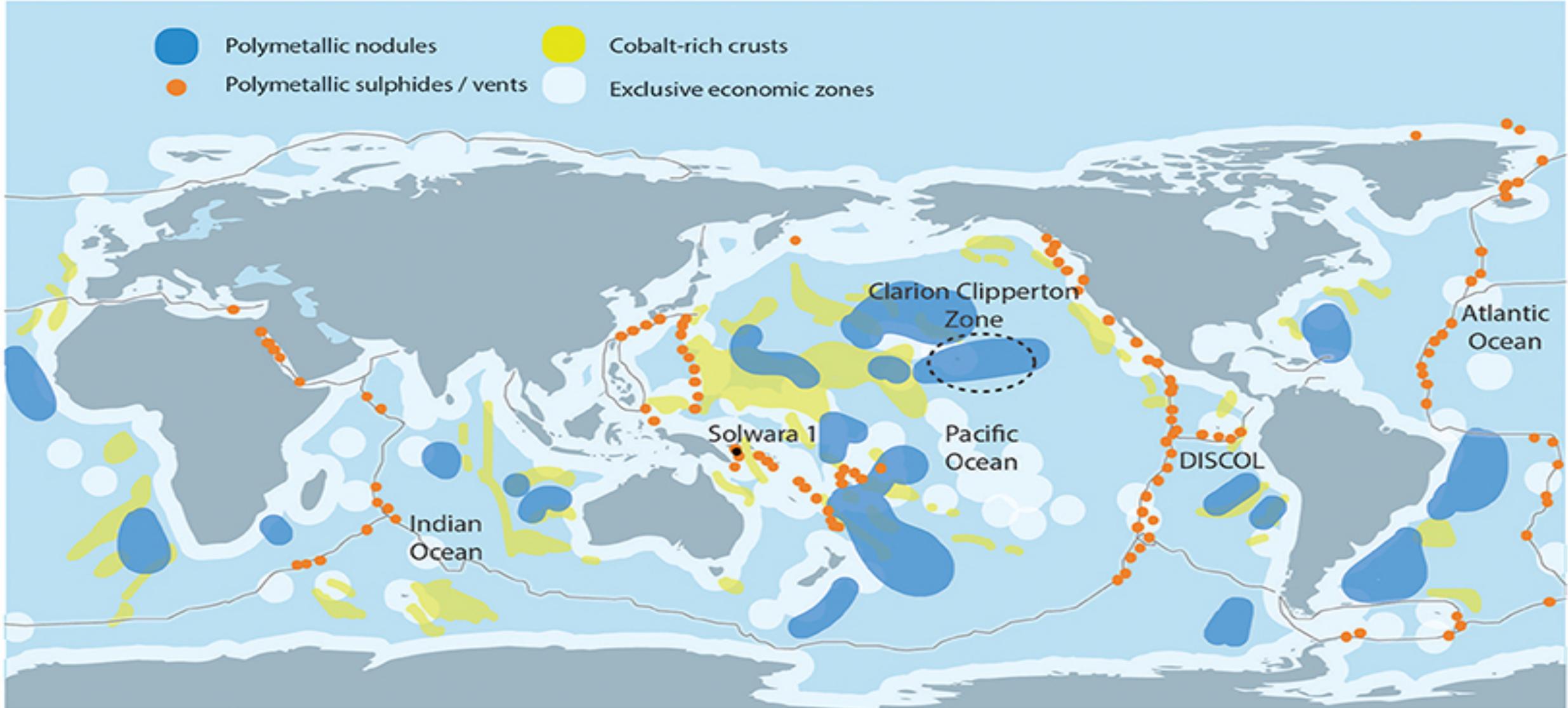


Seamount Crusts

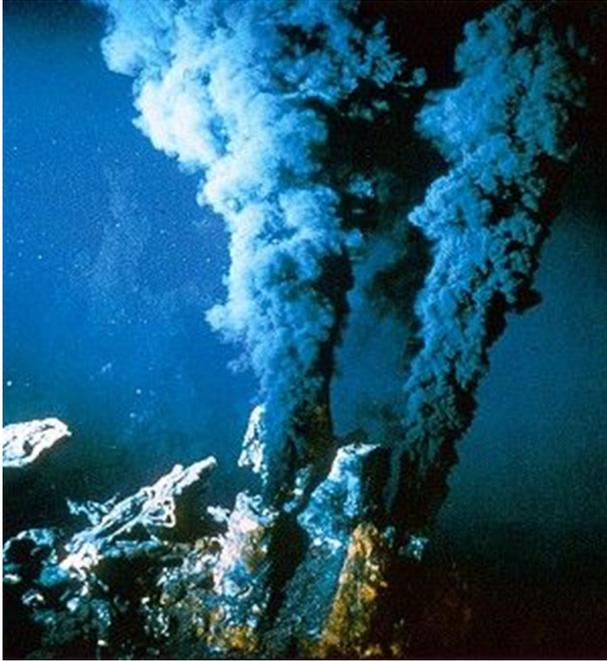


Global Prospective Deep Sea Mining Projects

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



Metals in each DSM target ecosystem



**copper, gold,
silver, zinc, lead**



**nickel, cobalt,
copper, manganese,
iron oxides**



**Cobalt, manganese,
iron, copper, nickel
platinum**

Industry public relations



‘...whether you invest in a company like DeepGreen or not, everyone is a sucker for the story’.

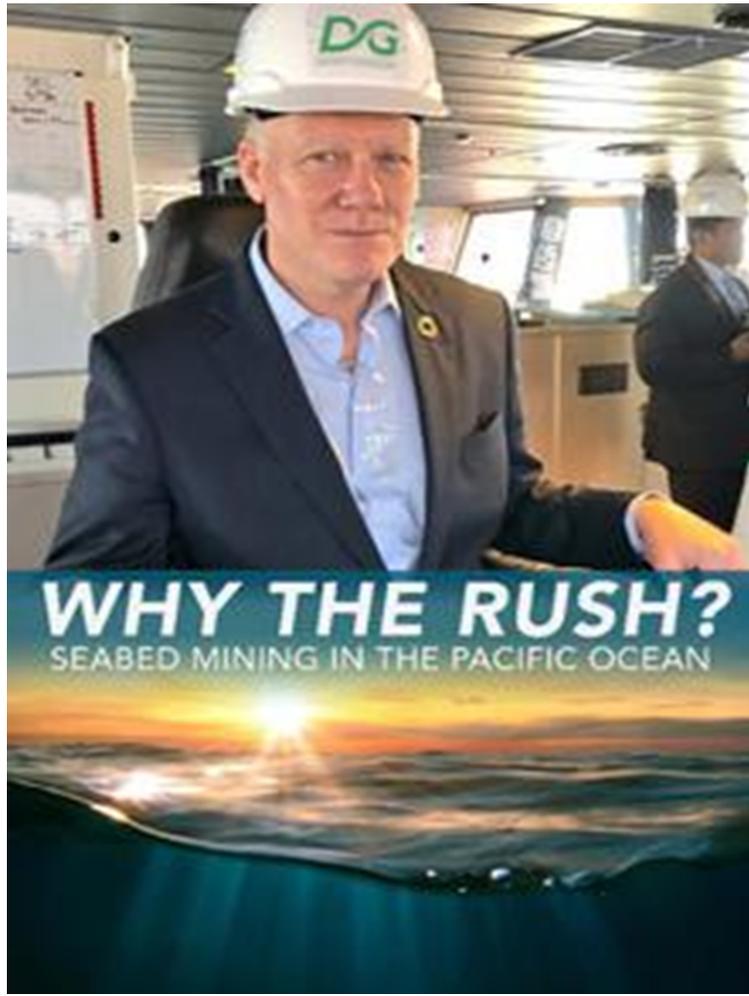
CEO, Gerard Barron. February 2019



Source: *Greenpeace*. 17 July 2019. Deep sea mining is not the future. [Louisa Casson](#)

Corporate Capture of the International Seabed Authority – United Nations

Mining Watch Canada | Deep Sea Mining Campaign
| London Mining Network JULY 2019



The Common Heritage of Mankind

- Twenty-nine exploration licences
- More than **1** million square kilometres of international seabed
- China, Korea, the United Kingdom, France, Germany, Russia, Kiribati, Nauru, Tonga and the Cook Islands, and
- Lockheed Martin (UK Seabed Resources)
- Canada's DeepGreen (Nauru Ocean Resources Inc.)
- Canada's Nautilus Minerals Inc. (Tonga Offshore Mining Limited).
- No exploitation, or mining, licence yet
- No mining regulations yet

Calling for a ban on Deep Sea Mining



Why we want a ban on Deep Sea Mining

- We rely on healthy oceans for our food, our livelihood and our culture
- Oceans are already overstressed by human impacts such as plastics, overfishing, acidification, DSM would be a catastrophic additional burden
- Species extinction is a serious and growing problem, the many unusual species associated with DSM target areas are virtually unknown and especially vulnerable
- We are not fooled by the rhetoric of the mining industry – we believe this is just another profit making scheme for frontier investors like DeepGreen and powerful multinationals such as Lockheed Martin
- Unacceptable mining impacts are not properly addressed on land and will be even harder to detect and avoid and impossible to mitigate in a deep marine environment
- The mining industry has proven itself to be irresponsible on land in every way – environmentally, socially, in terms of human rights, paying taxes, mine closure and taking responsibility for harm done. This is not an industry we can entrust with our precious oceans

We are not alone

- **European Parliament** – January 16, 2018 “...international moratorium on commercial deep-sea mining exploitation licences...”
- Pacific island country organizations and governments are calling for a ban or moratorium: **Fiji; Papua New Guinea; Vanuatu**
- International Civil Society Organizations and Coalitions - **Deep Sea Mining Campaign** has called for a ban on DSM, **Greenpeace** has called for a moratorium as has the **Deep Sea Conservation Coalition** - “there should be a moratorium on: deep seabed mining; the adoption of seabed mining regulations for exploitation (including the “International Seabed Authority Exploitation Regulations”); and the issuing of exploitation and new exploration contracts”
- **Scientists** – See for example <http://ourcommonheritage.org/>

What can the Canadian government do?

- The Canadian Government needs to follow through on its commitments to provide the Ombudsperson for Responsible Enterprise the powers to compel documents and witnesses in the course of investigations of complaints.
- The Canadian Government needs to implement regulations that will mandate human rights due diligence for its multinationals operating overseas such as Nautilus and DeepGreen.
- The Canadian Government needs to promote recycling of metals for green technology and support innovation towards a post-extractive economy.
- The Canadian Government needs to protect its own oceans by ensuring that provisions of its laws that protect fish bearing waters from mine waste apply to Deep Sea Mining.

Thank You

