



gary heitkamp

A proposed biogeography of the deep ocean floor

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Ph.D., University of Delaware

1974: Marine Studies, Delaware, USA

Master of Science, University of the Pacific

1969: Marine Science

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Marine Fellow

1998: Pew Fellows Program in Marine Conservation

Numerous Conservation Associations

Well Published Researcher

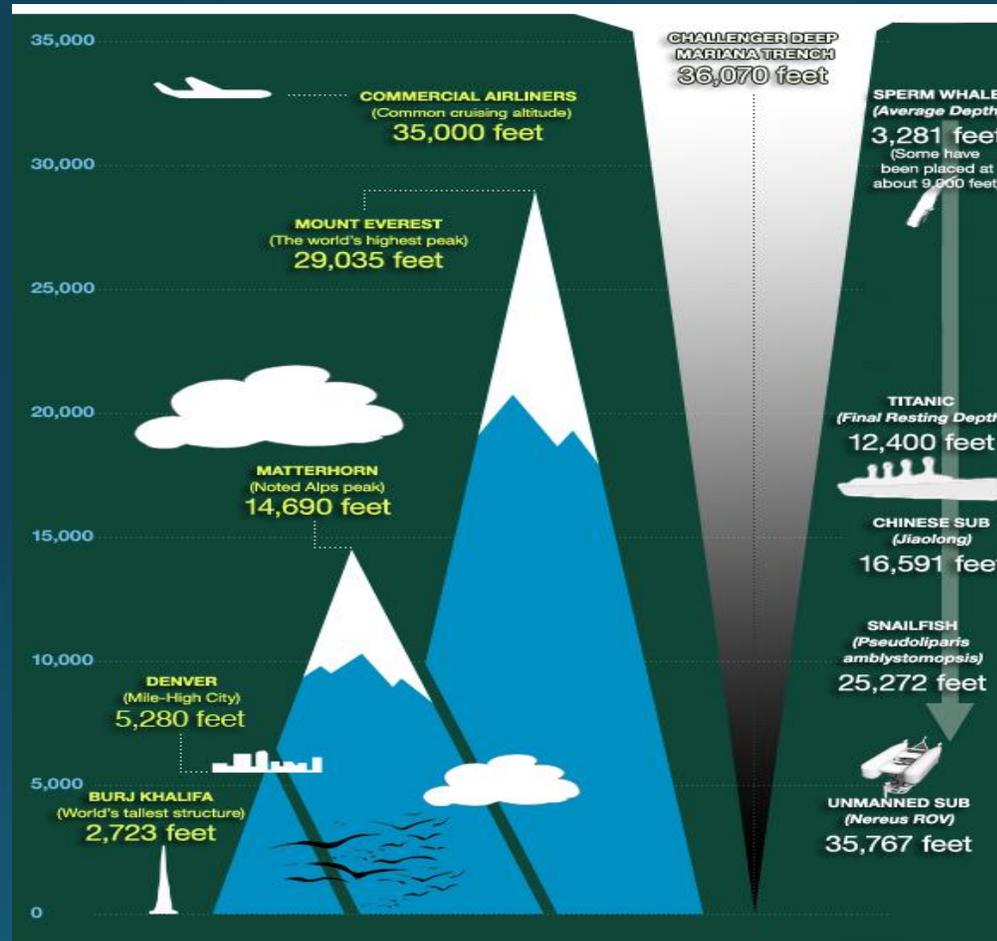
A proposed biogeography of the deep ocean floor

- 'hypothesize centers and boundaries of benthic biogeographic provinces at depths greater than 800 m and to provide a classification of deep sea areas that can be used for high seas management purposes'
- Balance human exploitation and ecosystem conservation

Human Factors

- Oil Drilling
- Deep Sea Mining
- Chemical Disposal
- Bottom Fishing

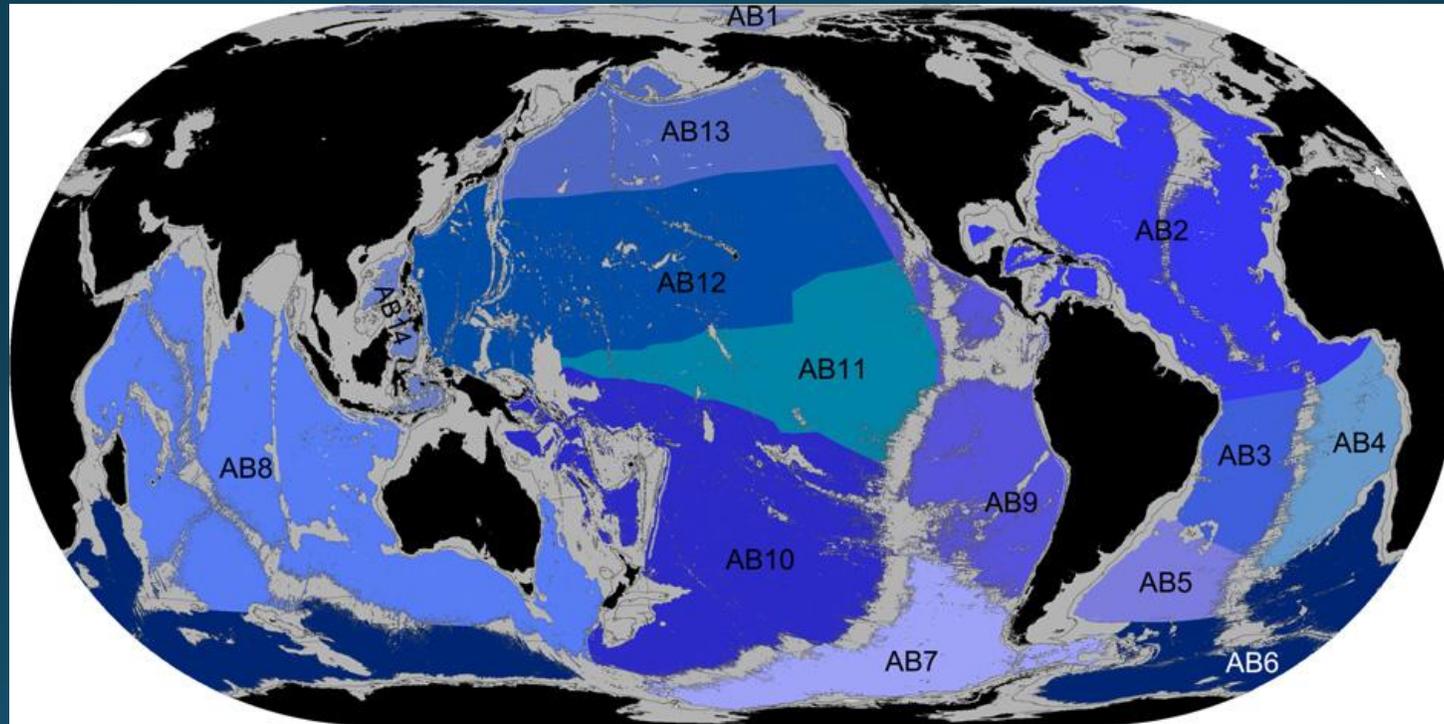
How Deep Are We Talking?



Components

- Proxies
- Pressure/depth
- Temperature
- POC-particulate organic carbon flux
- Oxygen availability

Abyssal Provinces



AB1: Arctic Basin

AB2: North Atlantic

AB3: Brazil Basin

AB4: Angola, Guinea, Sierra Leone Basins

AB5: Argentine Basin

AB6: Antarctica East

AB7: Antarctica West

AB8: Indian

AB9: Chile, Peru, Guatemala Basins

AB10: South Pacific

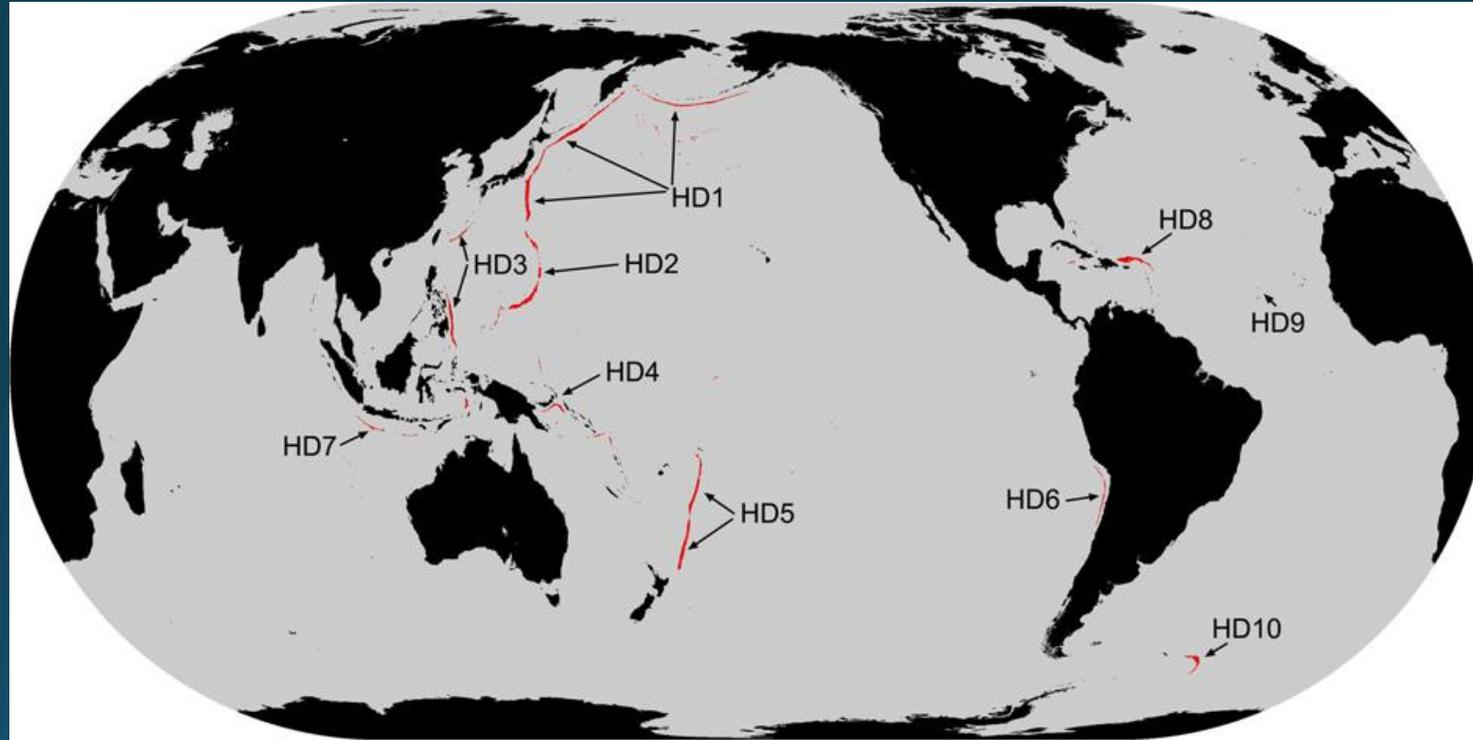
AB11: Equatorial Pacific

AB12: North Central Pacific

AB13: North Pacific

AB14: West Pacific Basins

Hadal Provinces



HD1: Aleutian-Japan
HD2: Philippine
HD3: Mariana

HD4: Bougainville-New Hebrides
HD5: Tonga-Kermadec
HD6: Peru-Chile

HD7: Java
HD8: Puerto Rico
HD9: Romanche

HD10: Southern Antilles

Closing Thoughts

Questions