



The Business of
Marine Energy

Oceania Room | Te Papa Tongarewa | Wellington

TANGAROA
E N E R G Y



WHO ARE WE?

- A NZ based company
- with Norwegian investors
- (Langlee Wave Power)

- Member of Awatea
- (Wave and Tidal Assoc)

- Member of HERA
- (Heavy Engineering Assoc)



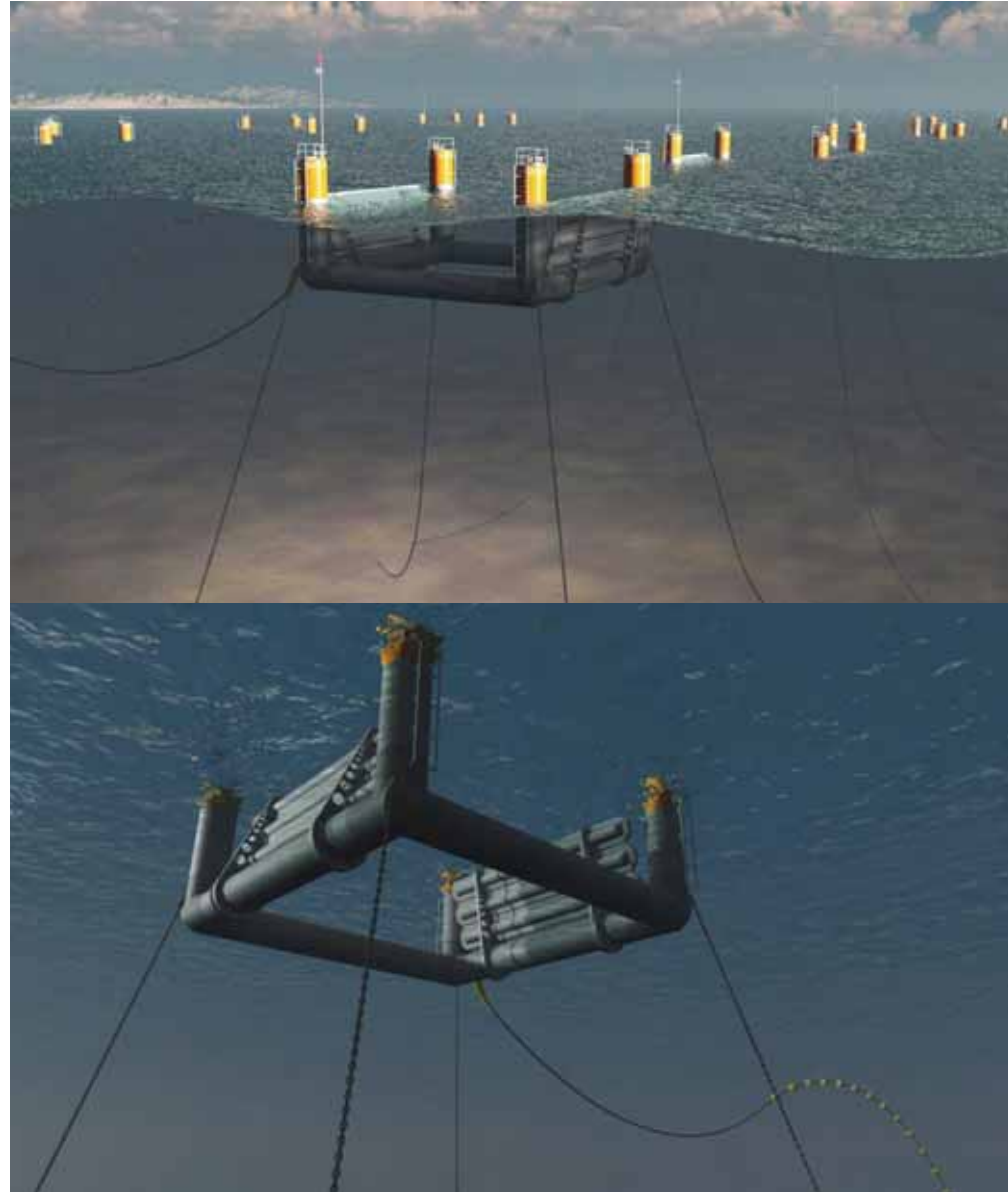
WHAT ARE WE DOING?

Tangaroa Energy intends:

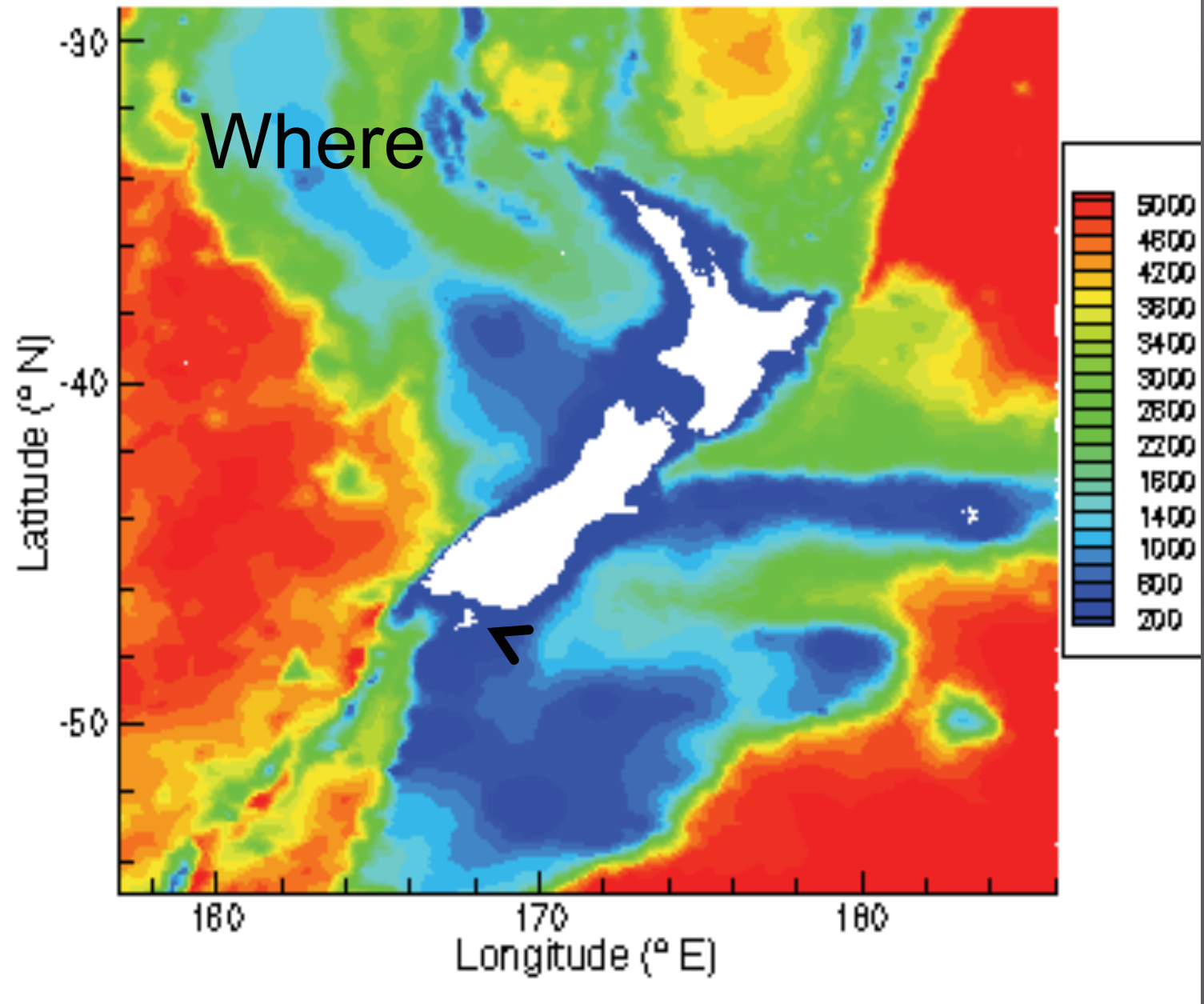
- To deploy a Langlee Wave Power device East of Stewart Island
- To supply power to the Stewart Island Community
- To reduce the diesel consumption to generate electricity for the Island

How?

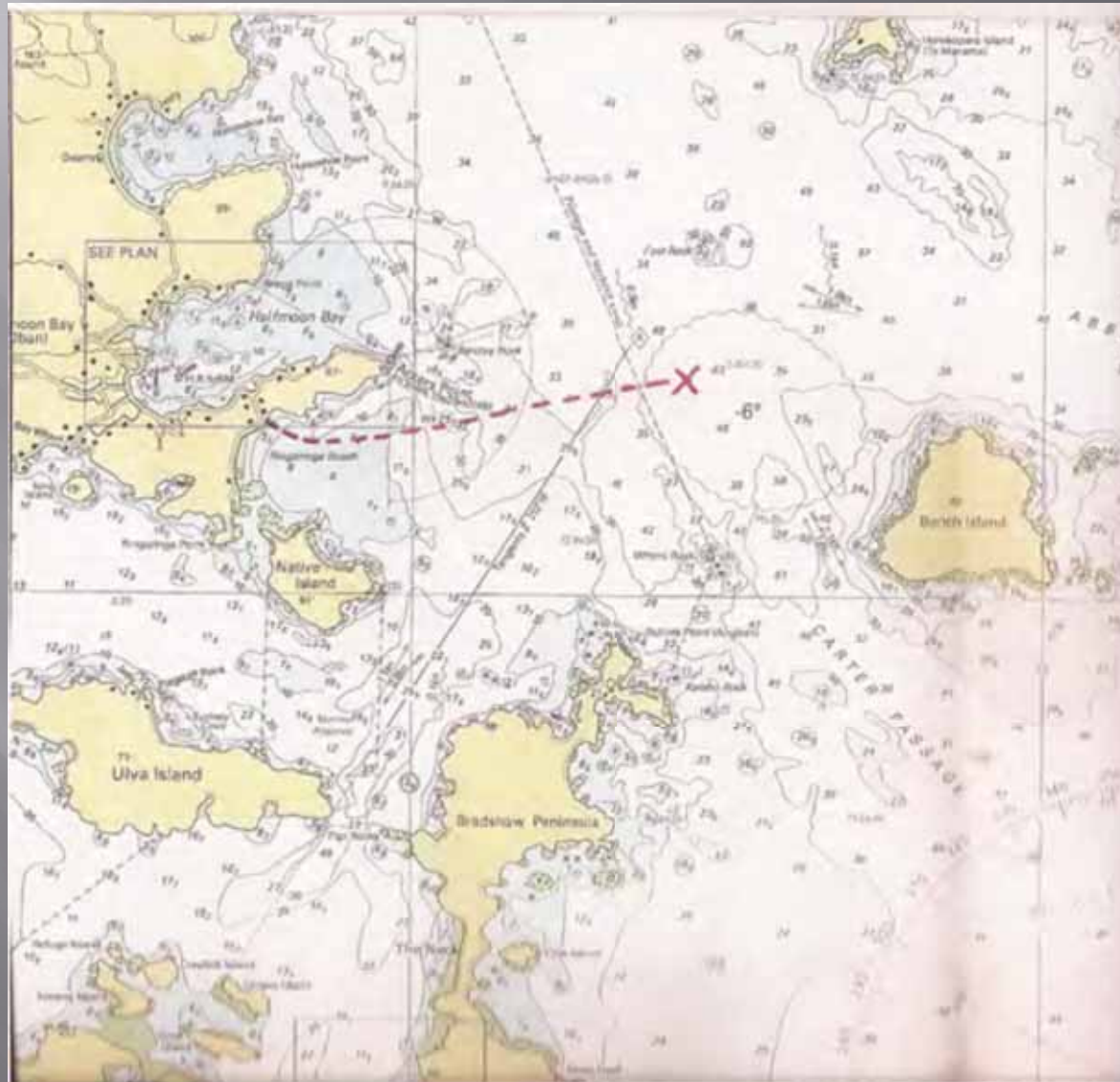
- Floating pontoon
- Cube shaped
- Wings that capture the energy found within the waves



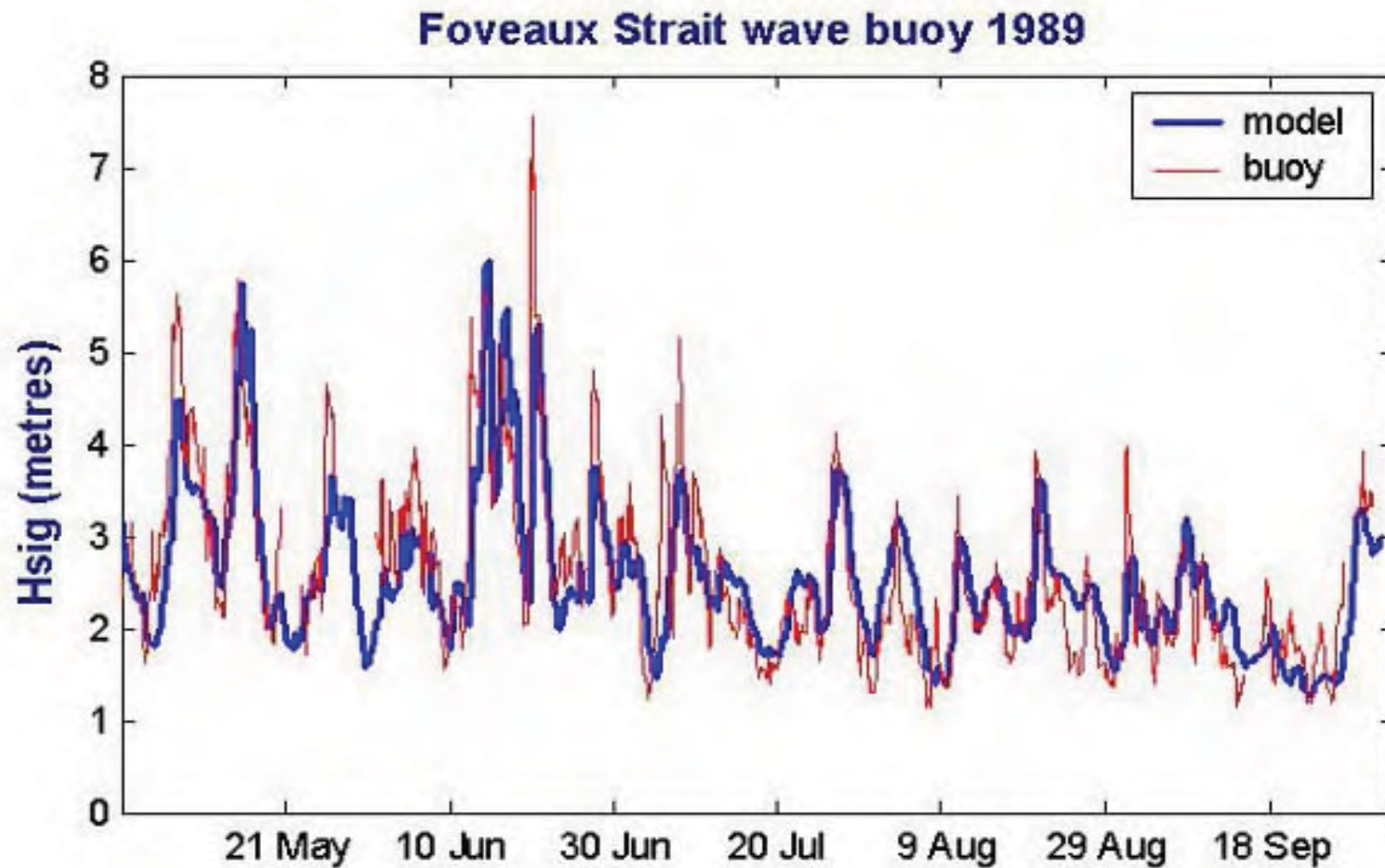
Where



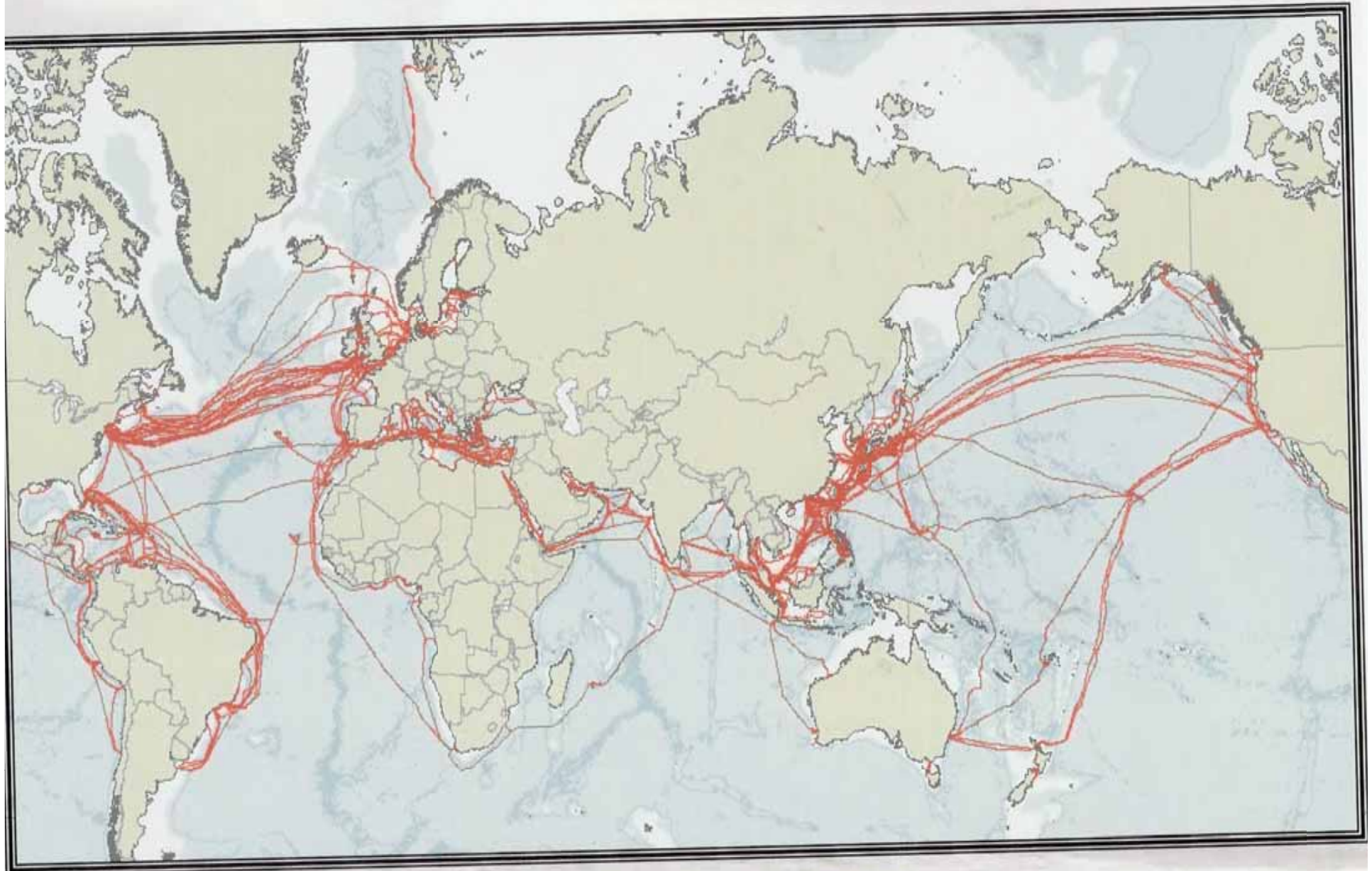
Entrance To Patterson Inslet



Foveaux Strait Wave Resource



International Cable Routes



Courtesy: Global Marine Systems Ltd

Cables as Artificial Reefs

- Mounds of coiled cable form artificial reefs off Maryland & New Jersey
- Reefs attract a range of marine organisms from algae to fish
- Reef materials must be stable, non-toxic, last for 20-30 years & provide habitats



Maryland cable reef highlighting biological growth, which may help biodiversity & fish stocks. Courtesy & ©: Compass Light

Environmental Responsibility





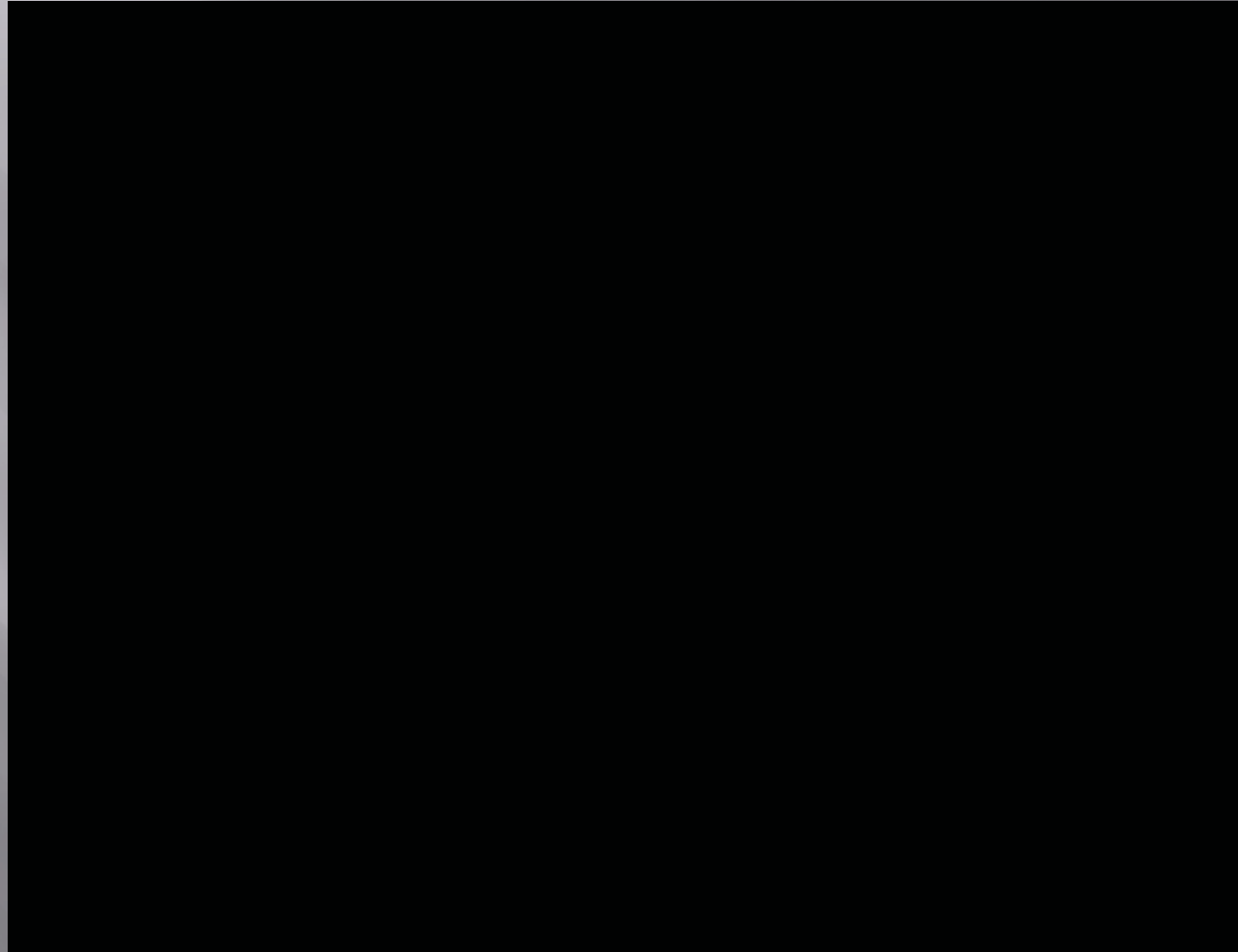
Anchor Handling 101



Ecogeek EMEC Cable 101



Ships In Relation to Waves 101

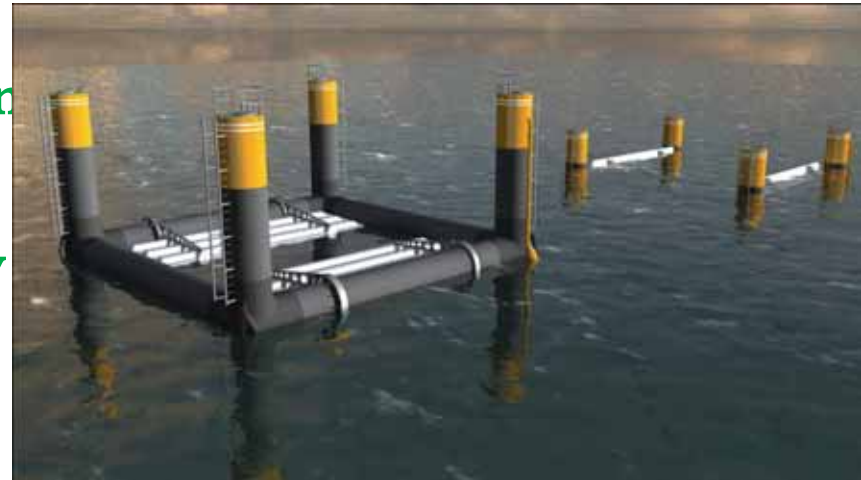


SUMMARY

- **NZ Based Renewable Energy Company**

- **Tangaroa/Langlee Consortium**

- **Environmental Responsibility**



- **Ho honu Hoe : Dig in deep with your oar young man ... While the sentries gaze at the wonders of the Stars Per Ardua Ad Astra**

Ho Honu Hoe Blue Energy

TANGAROA
ENERGY



LANGLEE
WAVE POWER



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