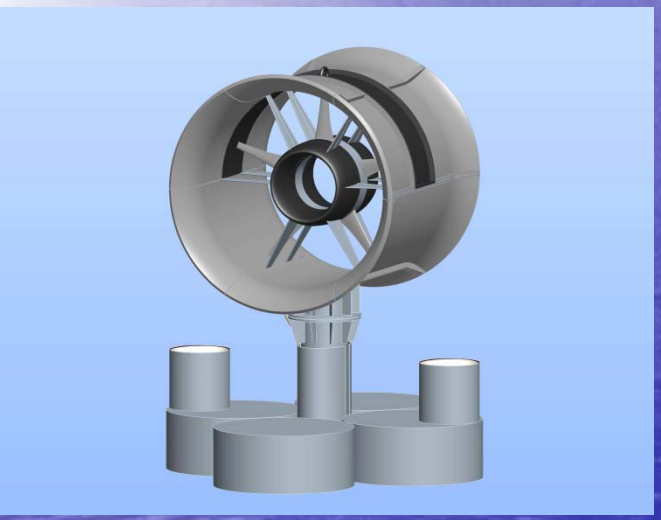
Steve Wohlmuth
Central King
Rural High School
Nova Scotia,
CANADA


Tidal Power – Our Potential


NEW BRUNSWICK
Bay of Fundy
NOVA SCOTIA
Atlantic
Ocean

# Generators



**Clean Current Power Systems**

(British Columbia, Canada)

**Alstom Power**

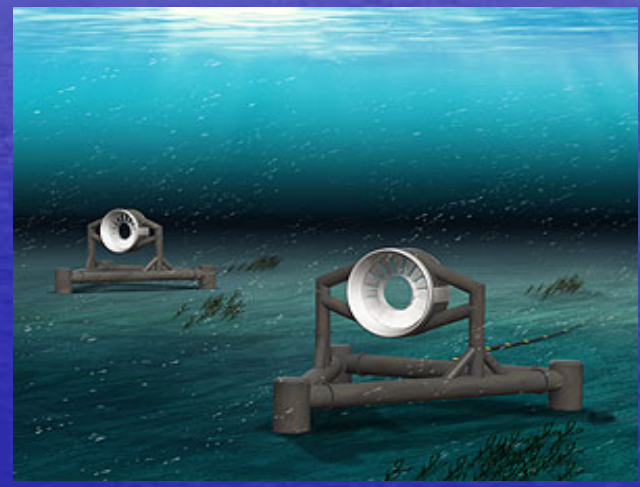
(France)

**Minas Basin Pulp and Power**

(Nova Scotia, Canada)

**Marine Current Turbines**

(Bristol, England)



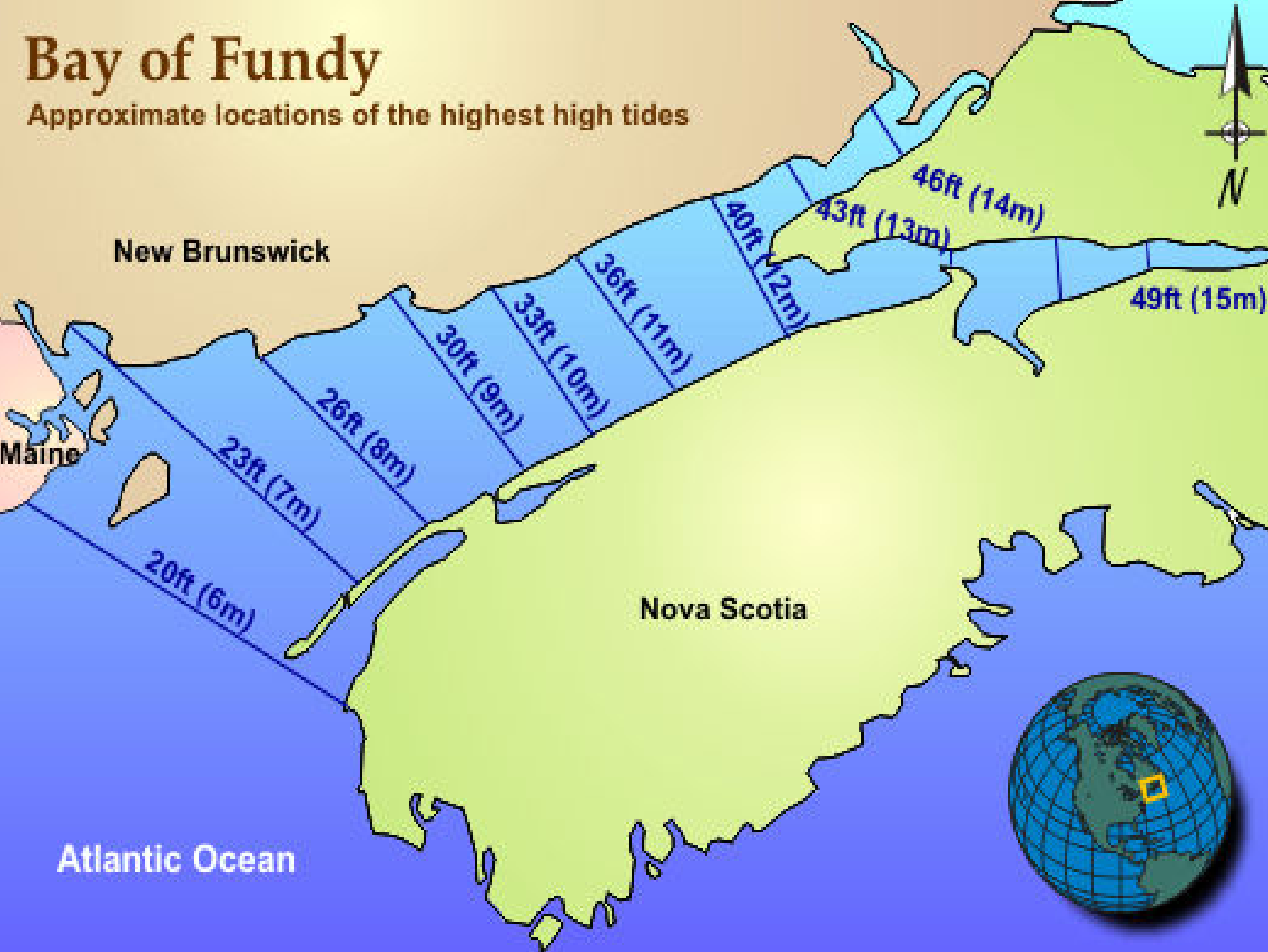
**Nova Scotia Power**

(Nova Scotia, Canada)

**OpenHydro**

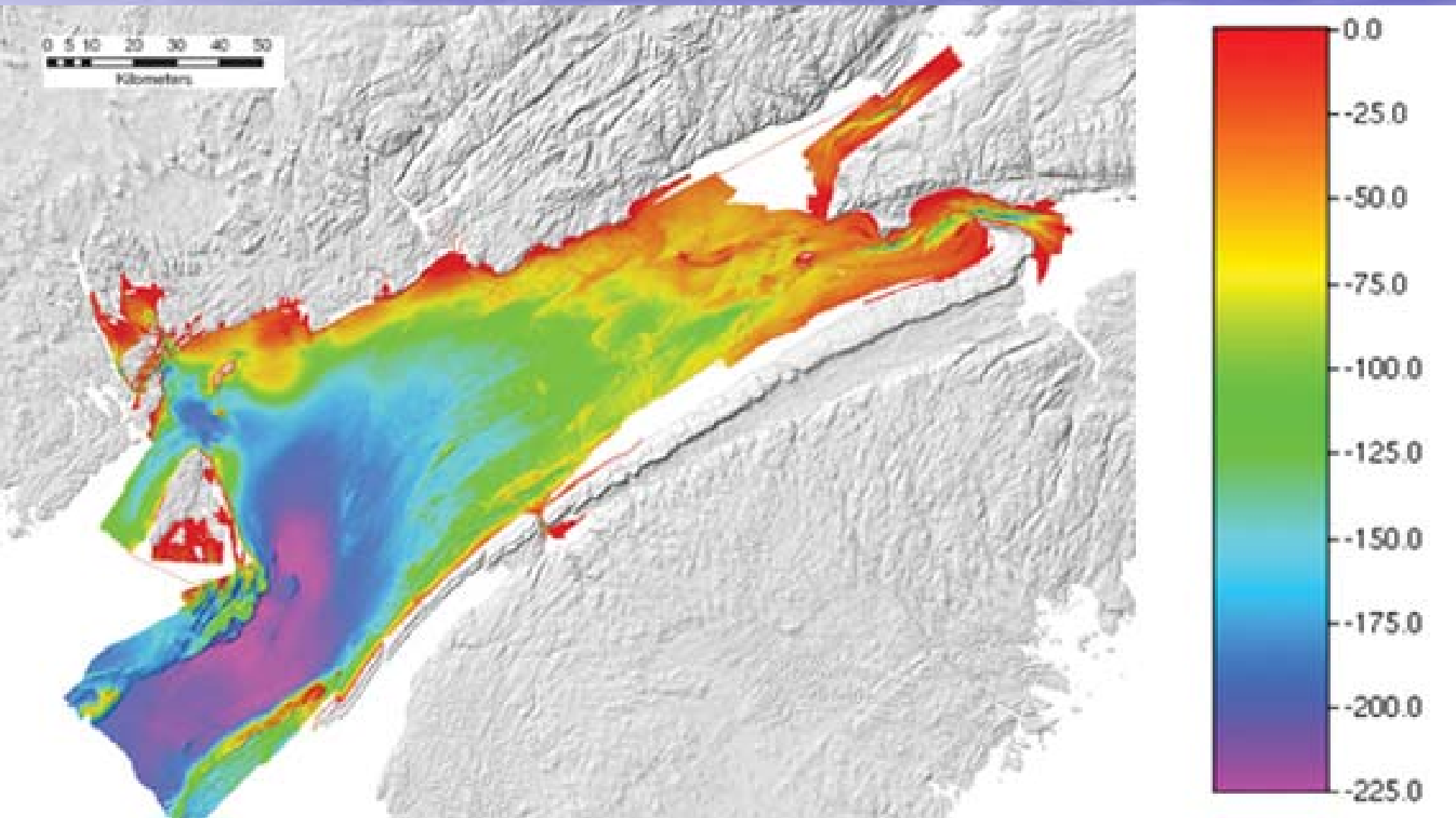
(Dublin, Ireland)

# The Bay of Fundy – Tides and Technology


Bay of Fundy
Approximate locations of the highest high tides
N
New Brunswick
Maine
Nova Scotia
Atlantic Ocean
20ft (6m)
23ft (7m)
26ft (8m)
30ft (9m)
33ft (10m)
36ft (11m)
40ft (12m)
43ft (13m)
46ft (14m)
49ft (15m)

# Why are the tides so high?

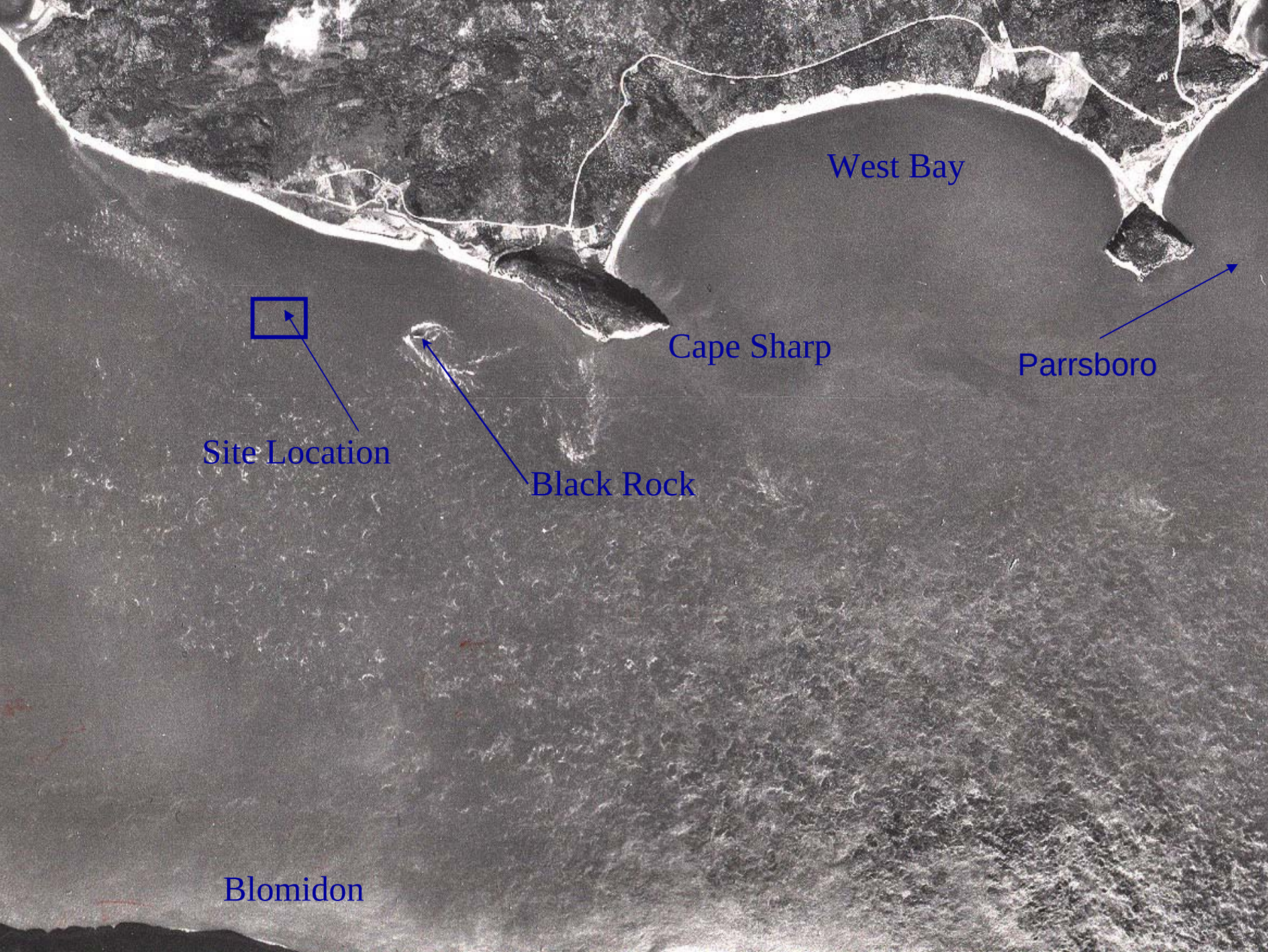
## Multibeam bathymetry data



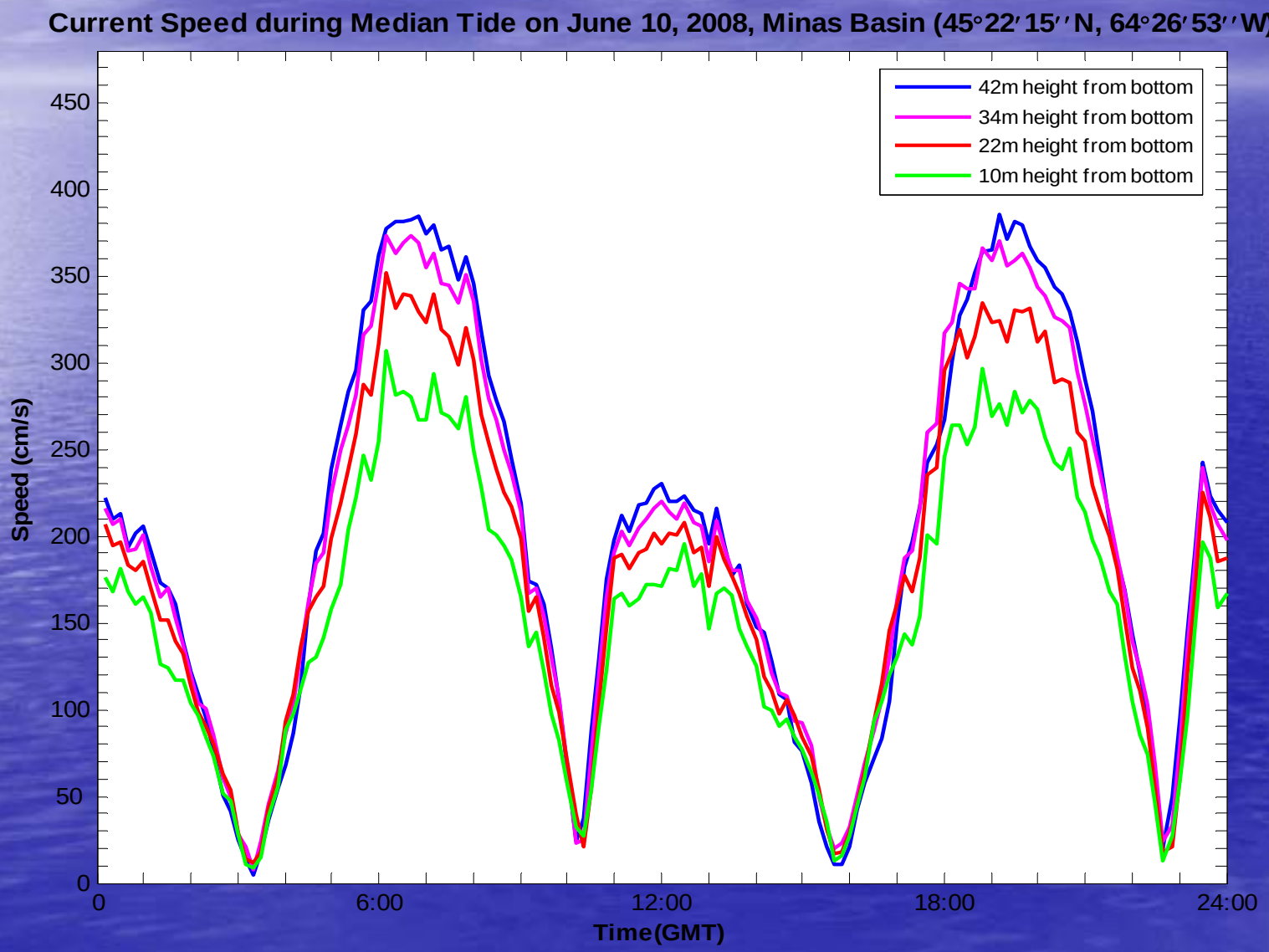
# What is the best location to put the in-stream turbines in the Bay of Fundy? Things to consider…

- Speed of current
- Direction of current
- Depth of in-stream turbines
- Seabed Geology
- Marine Environmental concerns

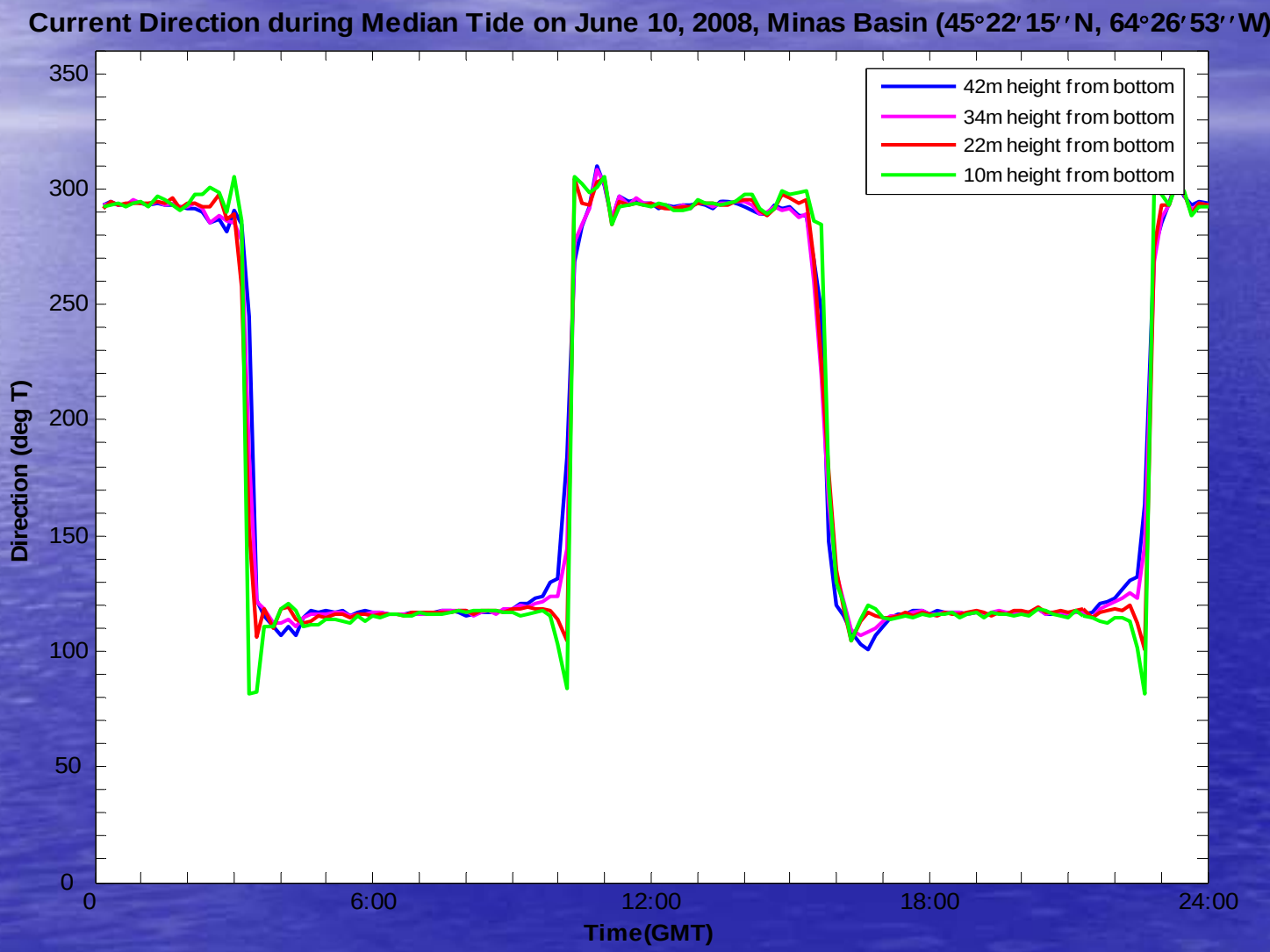

Location
Minas Passage


West Bay
Cape Sharp
Parrsboro
Site Location
Black Rock
Blomidon

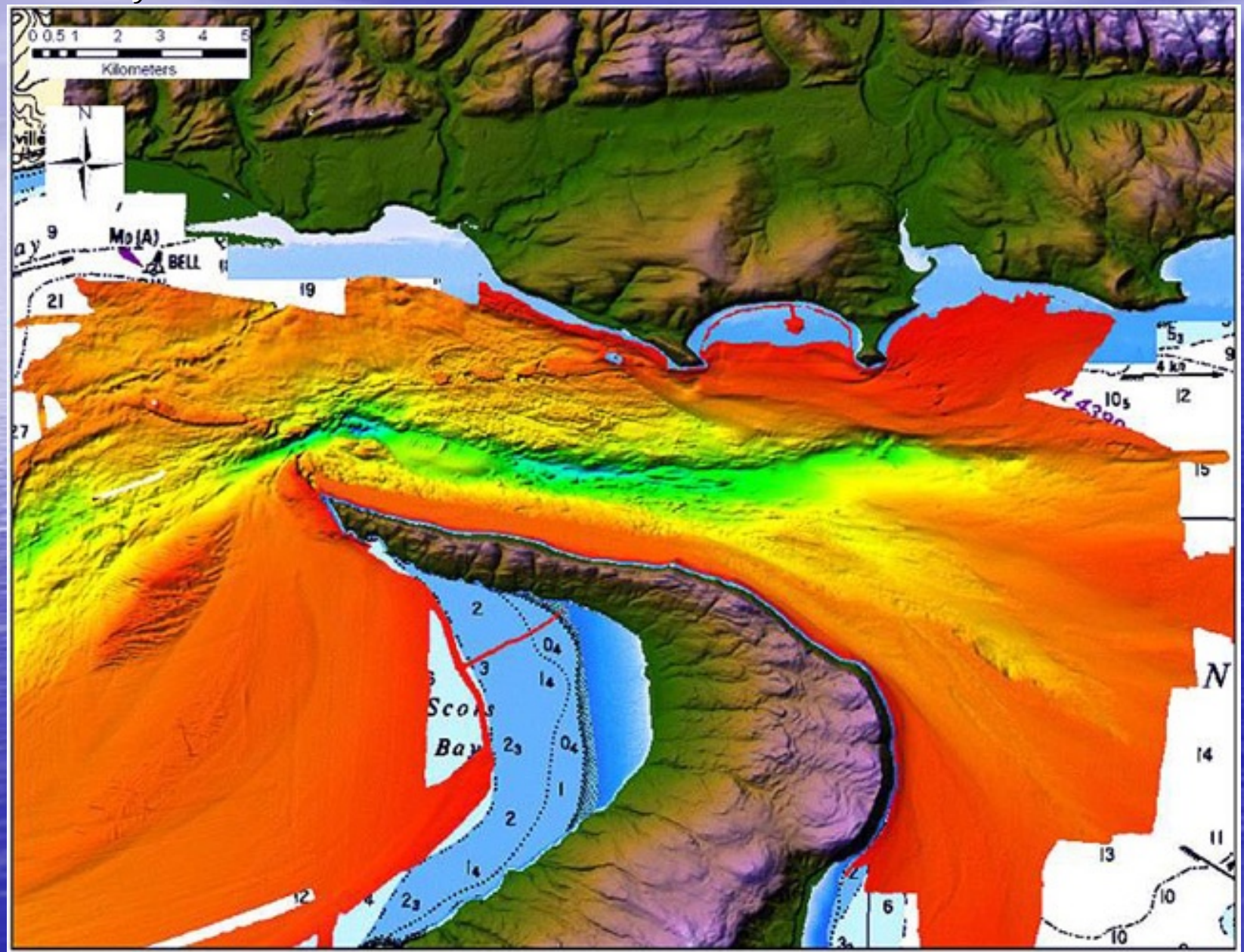
# Current Speed



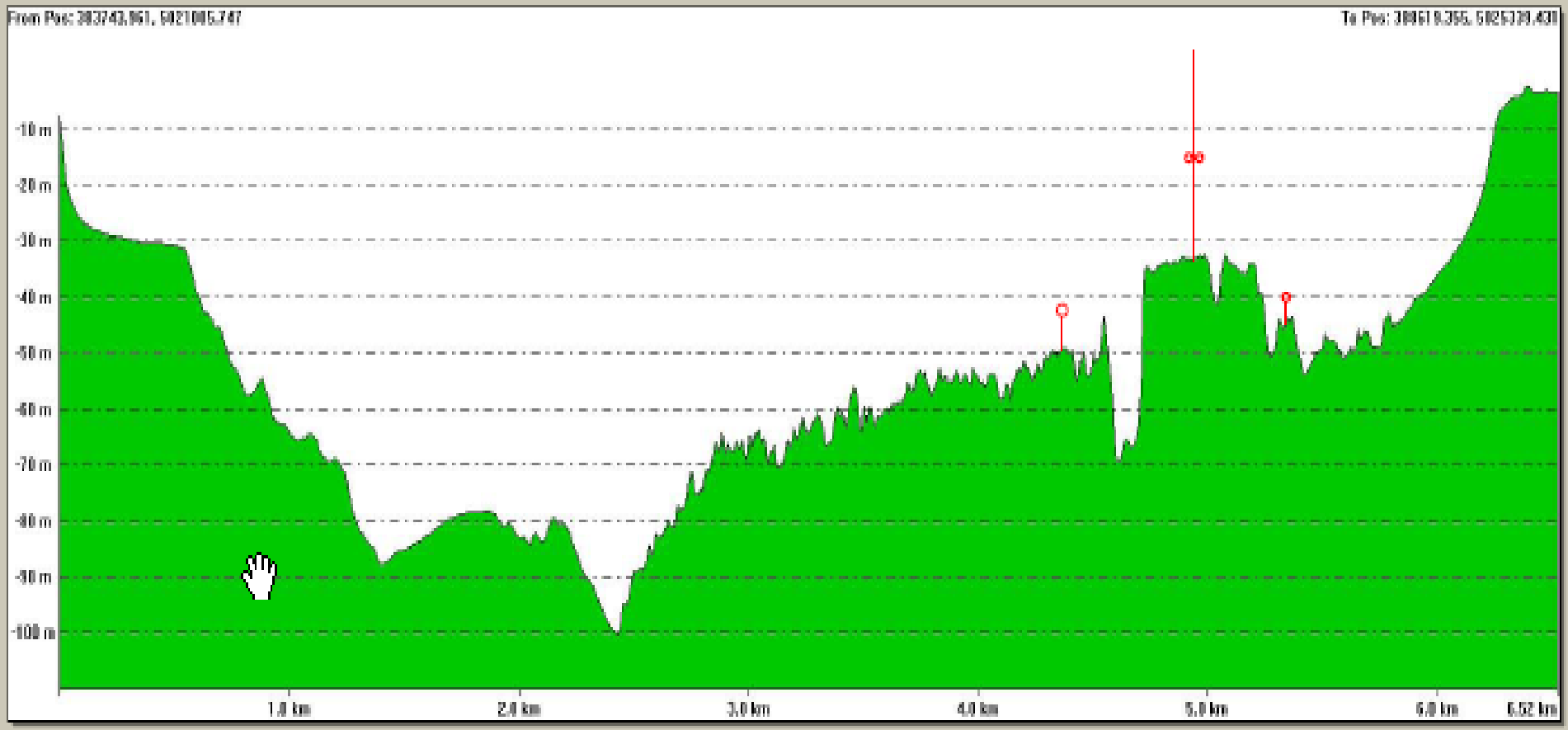
# Current Direction



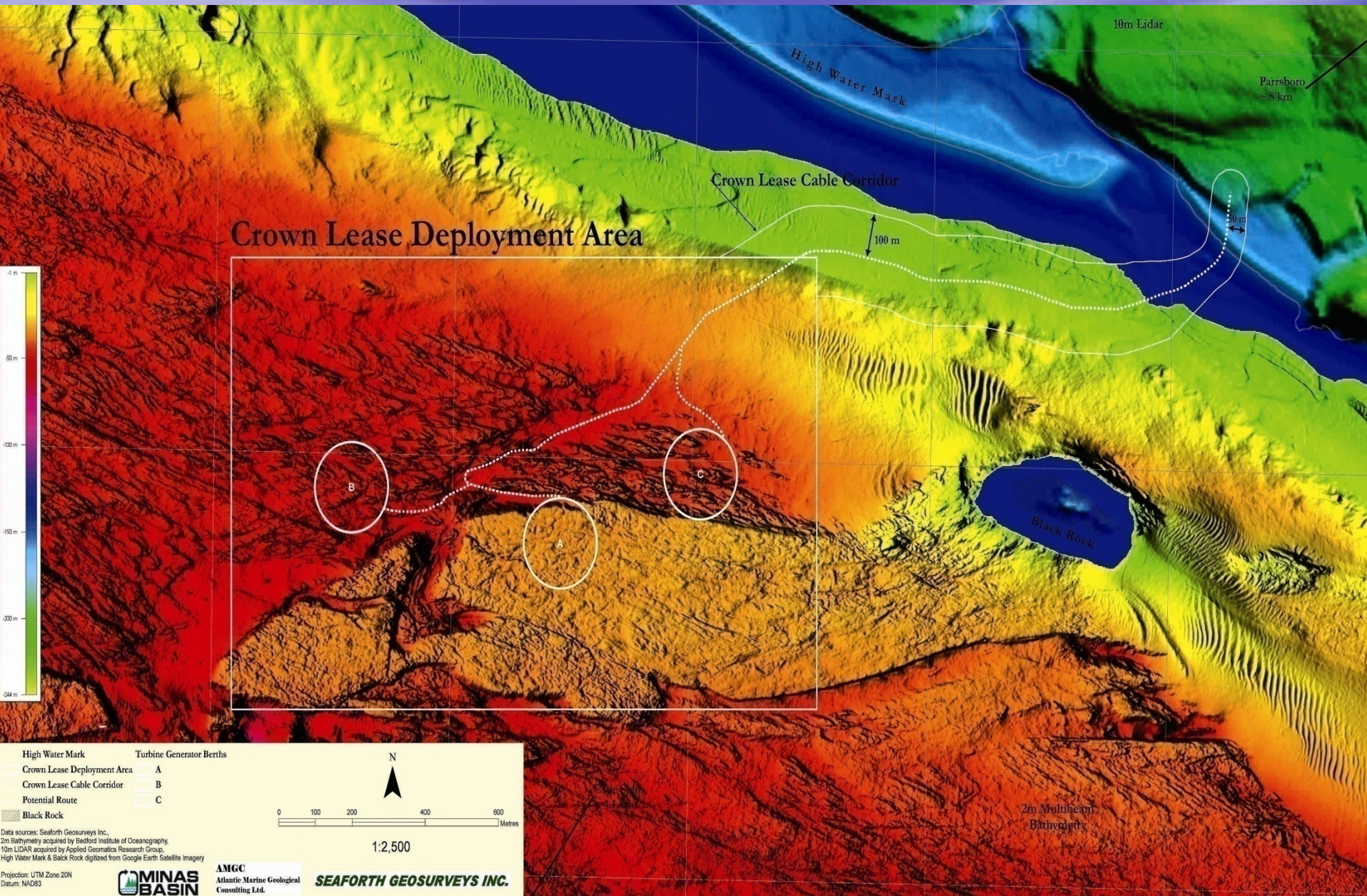
- Multibeam bathymetry, which provides a detailed picture of the topography of the seafloor and water depths, has been collected for areas of the Bay of Fundy.



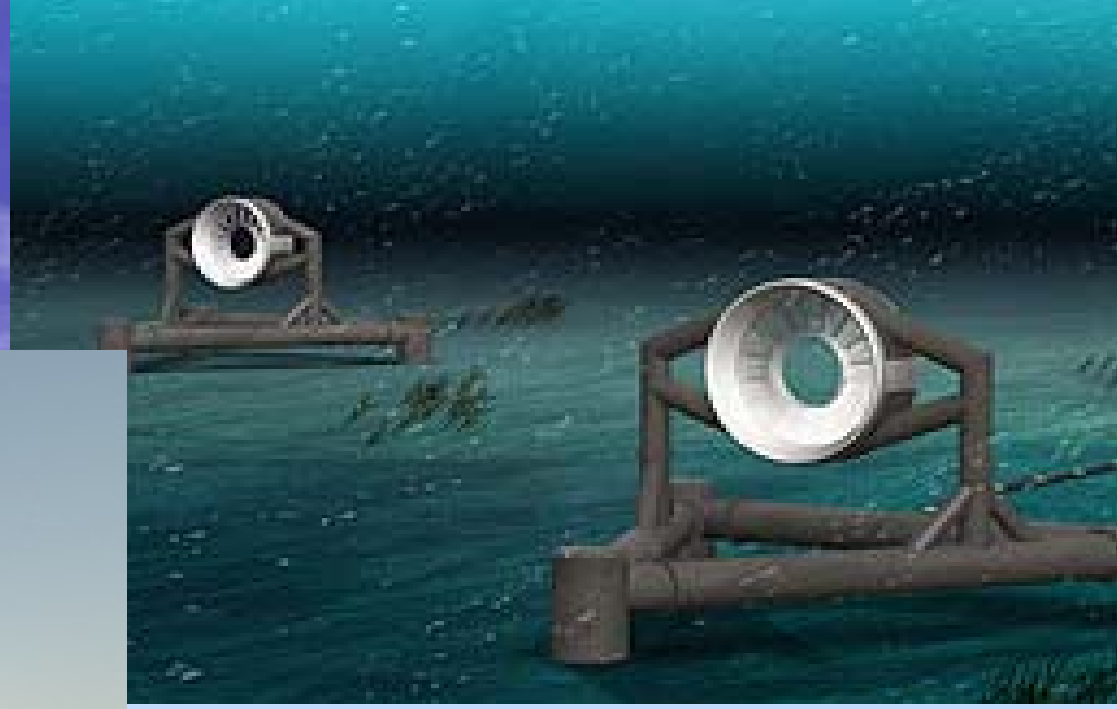
# Crossection of Minas Passage and 3 Test Turbines

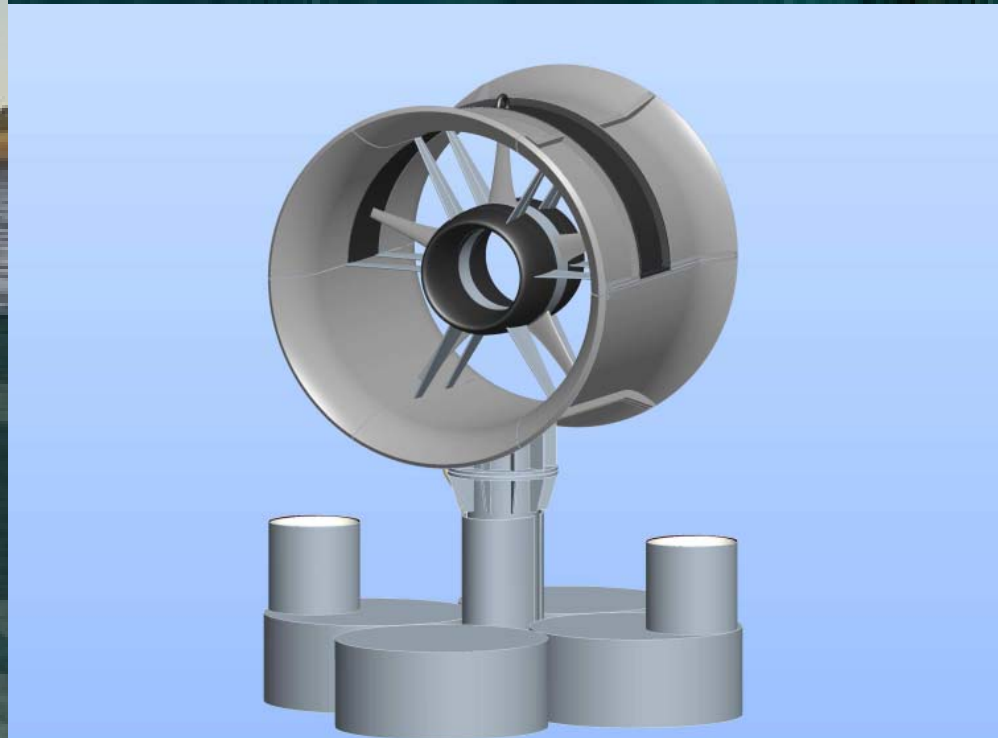


# Generator sites selected



# Generators





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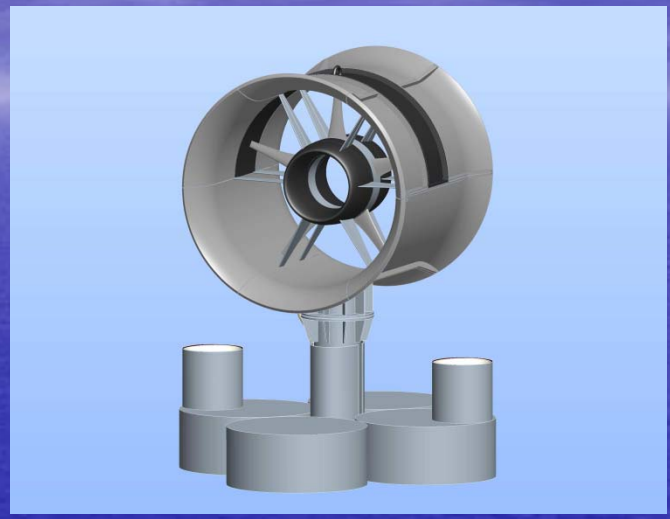
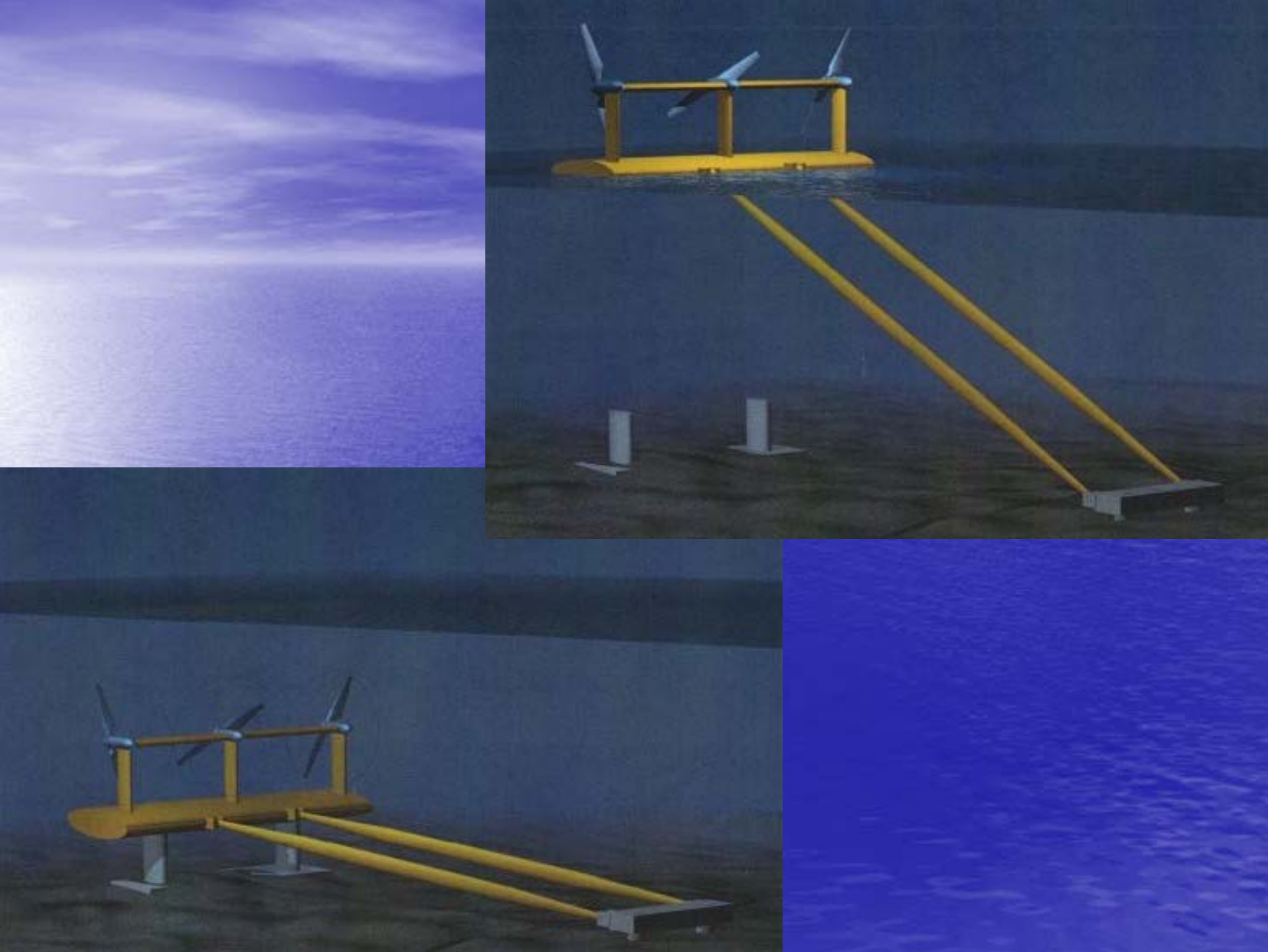
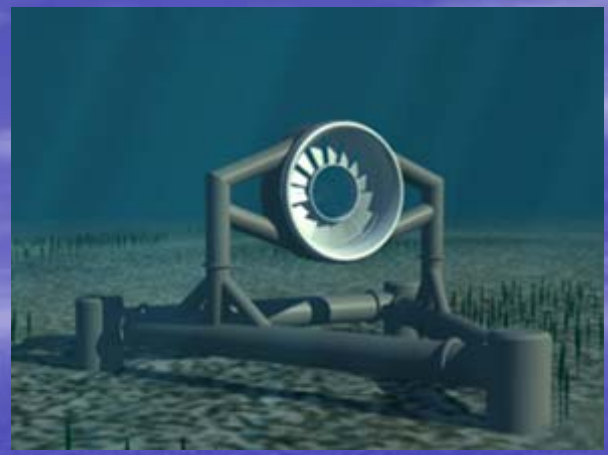
(British Columbia, Canada)
**Alstom Power**
(France)

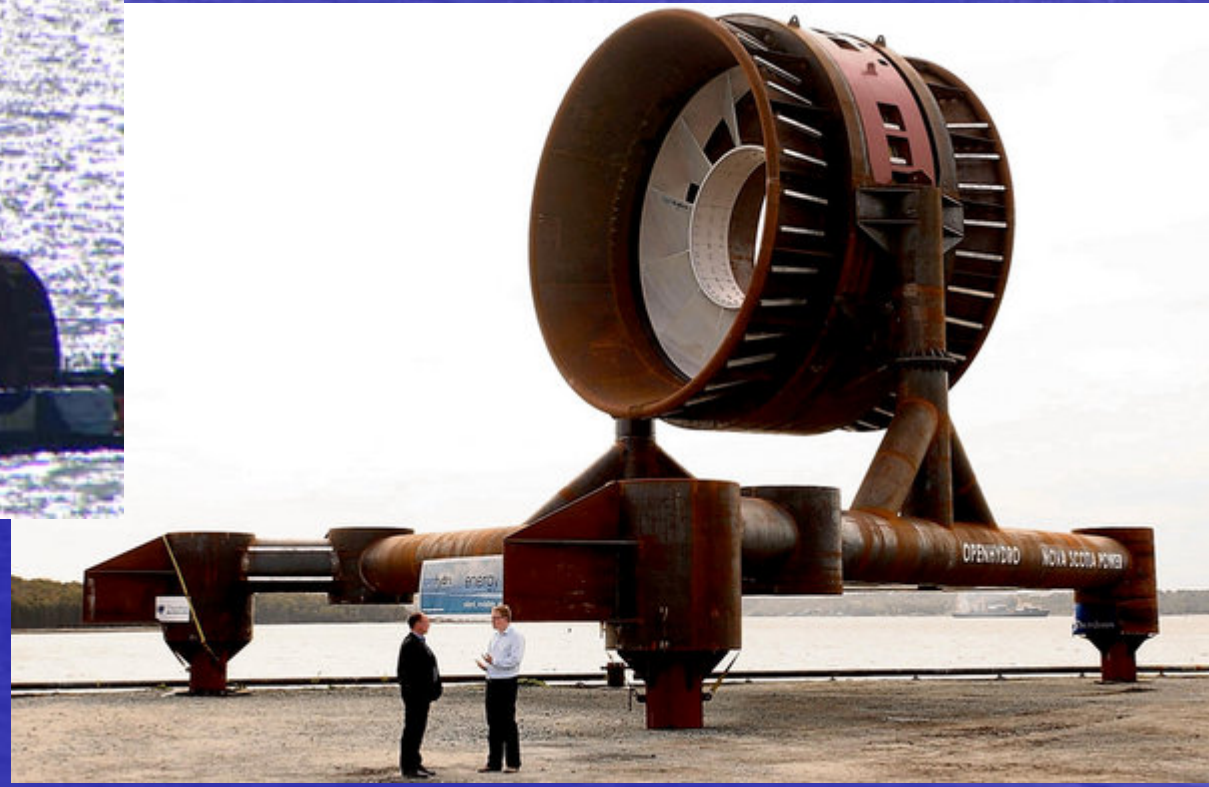


**Minas Basin Pulp and Power**
(Nova Scotia, Canada)
**Marine Current Turbines**
(Bristol, England)



# **Nova Scotia Power**
(Nova Scotia, Canada)
# **OpenHydro**
(Dublin, Ireland)





The Beginning.....

Thank You