

Capitol Hill Ocean Week

Energy from an Ocean in Motion

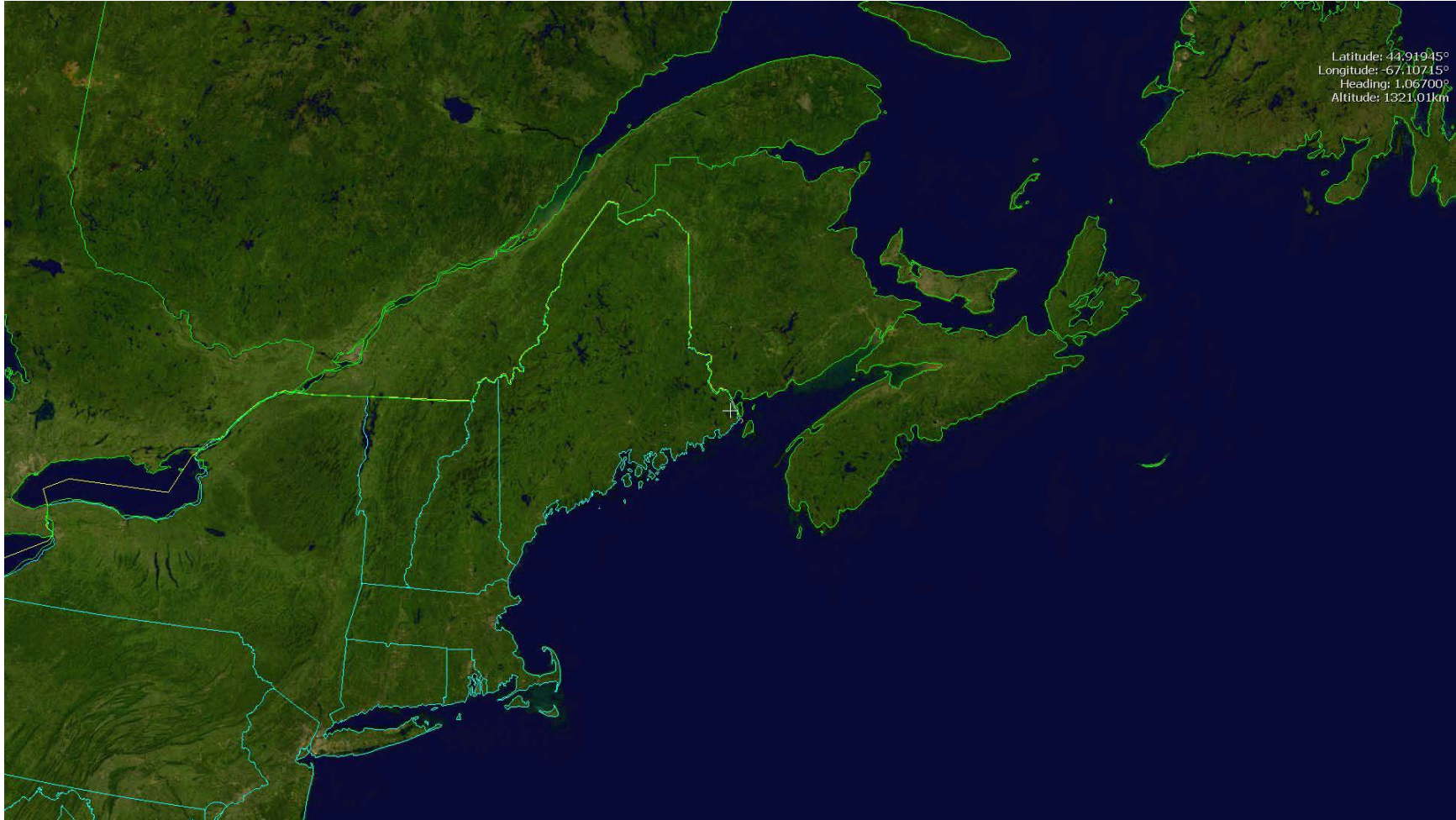
Will Hopkins

Cobscook Bay Resource Center

Eastport, Maine



Latitude: 46.68233°
Longitude: -66.13683°
Heading: 0.00005°
Altitude: 4696.69km



Latitude: 44.91945°
Longitude: -67.10715°
Heading: 1.06700°
Altitude: 1321.01km



Image © 2007 TerraMetrics

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Pointer 44°53'03.70" N 67°03'59.30" W

Streaming ||||| 100%

Eye alt 19.87 mi



COBSCOOK BAY, MAINE

Cobscook Bay ...an estuary of exceptional conservation significance because of:

- **the diversity of species,**
- **the productivity of its waters, and**
- **the relative lack of degradation by pollutants or heavy development.**

**The Bay has an
extraordinary 24' tidal
range with a high-energy
system of tidal currents
and upwellings, and is
home to:**



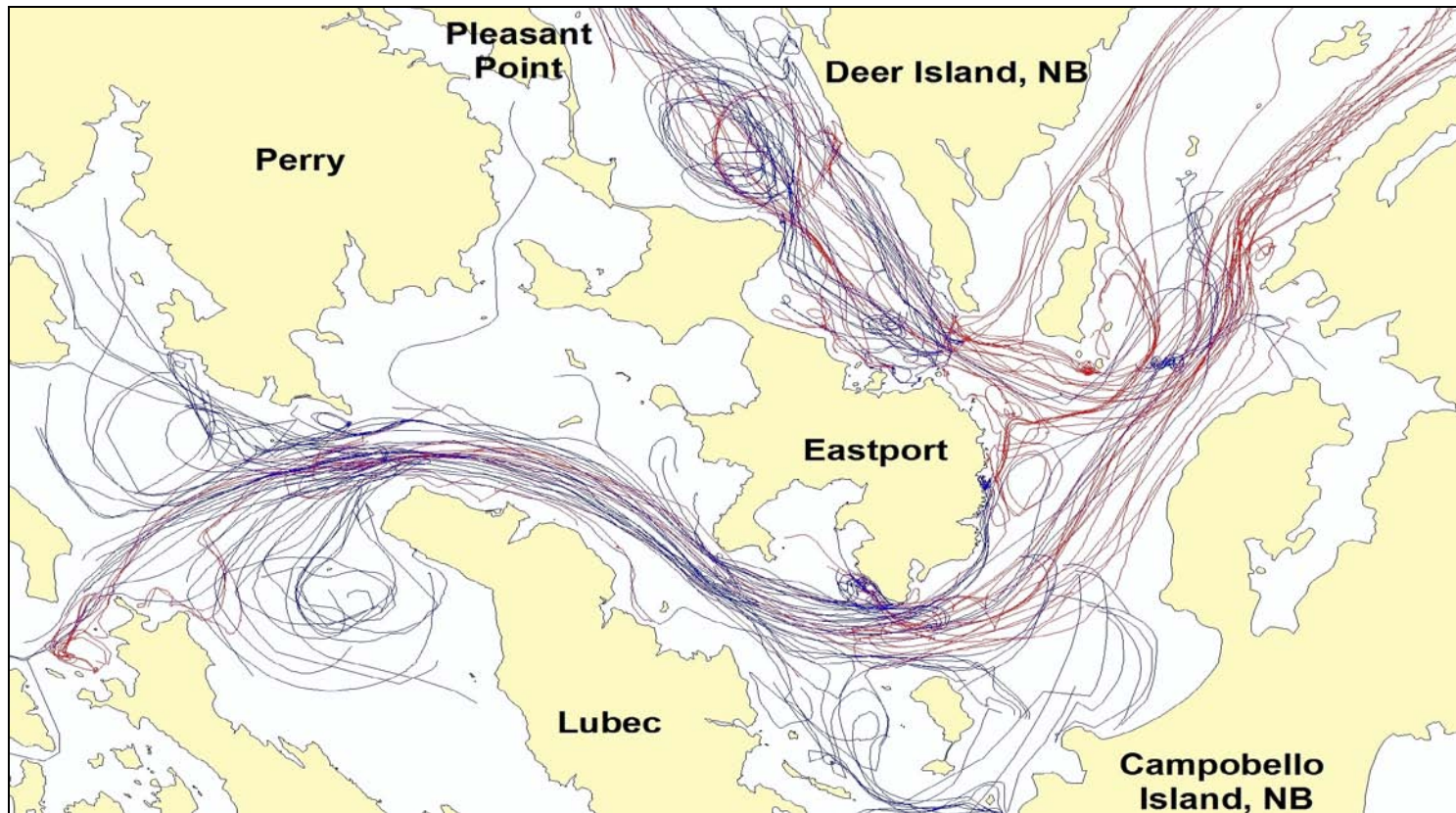
**the highest density
of nesting bald
eagles in the
northeastern U.S.**



**a summer population
of marine mammals,
including porpoises,
minke, and finback
whales**

**the last great
scallop beds in
the State of
Maine**





The best sites in Maine for generating electricity using tidal currents



**about 7,000 people
in nine communities
who are to a great
extent dependent on
the well-being of the
Bay.**

The Cobscook Bay Resource Center was founded in 1998 to monitor and understand the Cobscook Bay ecosystem and to use that understanding for economic development based on the Bay's renewable resources.





Three initial Cobscook area proposals:

- **Ocean Renewable Power Company**
- **the Passamaquoddy Tribe**
- **Tidewalker Associates**

- **Resource Center hosted three conferences**
- **facilitated meetings between ORPC and the Cobscook Bay Fishermen's Association**
- **ORPC and CBFA considered 3 sites for first turbine test deployment before they found the right one.**
- **ORPC increased the depth of turbines**
- **facilitated contact between ORPC and Tribal leaders, leading to withdrawal of opposing intervenor status and to mutual support for each other's preliminary permit applications to FERC.**

WHAT DID ORPC DO RIGHT?

- articulated goals ...and asked for help
- developed an MOU with the local city government.
- kept the community informed
- listened to local knowledge...and then acted on what they'd learned.
- hired local talent, creating or retaining more than 80 jobs statewide
- invested in the local community, approximately \$2 million in Eastport area alone.
- incrementally scaled up tests and growth.
- became a partner in the community's development.
- built lasting relationships
- established credibility.

ORPC HEARTILY THANKS ITS PROJECT PARTNERS.

ALEXANDER'S WELDING AND MACHINE	RYAN BEAUMONT INSTRUMENTATION ENGINEER	THE BOAT SCHOOL AN AFFILIATE OF HUSSON UNIVERSITY	BONNEY STAFFING CENTER	LLOYD BRACY	BRAYDEN'S FUTURE, INC.
BREWSTER CONSTRUCTION	CALYPSO COMMUNICATIONS	COBSCOOK BAY RESOURCE CENTER	COMPREHENSIVE POWER INC.	COOKE AQUACULTURE	CR ENVIRONMENTAL
DOWNEAST MARINE RESOURCES	G. DRAKE MASONRY, INC.	EASTPORT PORT AUTHORITY	CITY OF EASTPORT, MAINE	FEDERAL MARINE TERMINALS	FLOTATION TECHNOLOGIES
CAMRYN HANSEN WRITER	HARBOR TECHNOLOGIES	CAPTAIN BUTCH HARRIS	HDR/DTA ENGINEERING	JASON LEIGHTON	MAINE MARITIME ACADEMY
MAINE TECHNOLOGY	MARISOURCES	MER	MORRISON MANUFACTURING	NEWELL CONSTRUCTION	PIERCE ATWOOD LLP
PND ENGINEERING	RICKER ELECTRIC	SATCON	SHUNPIKE AUDIO	JOHN SKURCHAK DESIGN	STILLWATER METALWORKS
CHUCK SYVERSON	TURNER SIGNS	US COAST GUARD	US DEPARTMENT OF ENERGY	UMASS DARTMOUTH	UNIVERSITY of MAINE
US WINDBLADE	BROAD BAY TOOLING	BYRNE SALES AND RENTALS	CUSTOM COMPOSITE TECHNOLOGIES	THOMAS DICENZO	EASTERN PLUMBING & HEATING
					STANHOPES TRUCKING



CHANGES OVER LAST THREE YEARS

- Passamaquoddy Tribe allowing FERC permit to expire**
- Tidewalker Associates FERC permit expired, recently submitted a new FERC application**
- Halcyon Marine Hydroelectric recently announced plans for a “tidal wing” structure in the Half Moon Cove area**
- ORPC is moving into its pilot phase.**

Challenges of Environmental Effects and Competing Uses

PILOT PHASE

- **deployment of full-scale generating units connected to the grid**
- **extensive program of environmental testing and monitoring**

**Rigorous and credible environmental
monitoring and testing is critical to
any ocean energy development**

Provide public access to results of monitoring and testing

- face-to-face meetings**
- translate monitoring results into everyday language**
- use web-based and computer mapping tools to turn mountains of data into meaningful displays of information**

**Fishermen Take Responsibility: Moving
Towards A Sustainable Sea Scallop Fishery**

Cobscook fishermen have worked for the last 10 years with the Maine Legislature and the Maine Department of Marine Resources to protect the Cobscook scallop resource.



They reduced the size of their fishing gear to half that allowed in the rest of the State of Maine. They established:

- a daily catch limit,**
- a new minimum size for scallops,**
- a meat count by volume, and**
- increased enforcement penalties.**

Cobscook Bay now has the last good scallop grounds left in the State of Maine. Cobscook Bay is recognized as a model of innovative management of the scallop resource.



*Final Report of the Maine Ocean
Energy Task Force*

**“The Task Force believes that an
open and community-focused
approach to renewable ocean energy
development that features
collaboration with marine
stakeholders should be strongly
encouraged.”**

**Developers who have
invested in building
local relationships,
instead of just rushing to
build large projects,
may be the ones who
end up getting gear in
the water**



Will Hopkins
Cobscook Bay Resource Center
4 Favor Street
Eastport, Maine 04631
207.853.6607
willhopkins@myfairpoint.net
www.cobscook.org