THE OCEAN ENERGY DEMONSTRATION SITING INITIATIVE

Matthew Nixon Maine State Planning Office, Maine Coastal Program Prepared For the University of Maine Developer's Summit February 22nd, 2011



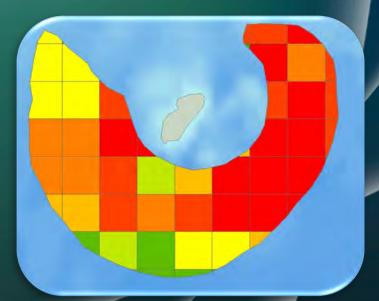


TOPICS TO BE COVERED

- L.D. 1465 (P.L. 270) Where it came from, how it worked, and what it did.
- The Department of Conservation (DOC) and State Planning Office (SPO) Process:
 - 1) Planning Areas
 - 2) Scoping
 - 3) Public Meetings
 - 4) DRAFT Release
 - 5) Secondary Scoping
 - 6) Final Designation







Monhegan Island Fishing Activity, SPO, 2009

THE OCEAN ENERGY TASK FORCE INTERIM REPORT AND RECOMMENDATIONS

- L.D. 1465 (P.L. 270) Initiated siting process lead by DOC and SPO with consultation from the University of Maine and various non-governmental organizations and stakeholders
 - Directed DOC and SPO to site up to five Ocean Energy Demonstration Sites in state waters (3 NM from the coasts of the mainland and islands).







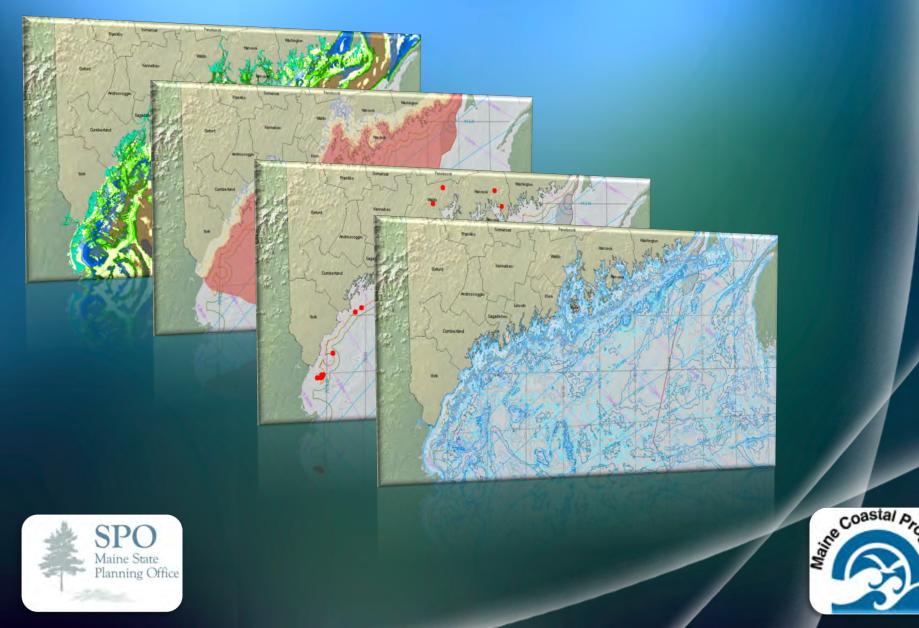
PLANNING AREAS

- The Legislature provided DOC and SPO with six months to select the demonstration sites
- Additionally, the OETF had indicated that deepwater, floating technology was Maine's "niche" because:
 - 1) Deep Water
 - 2) Proximity to the Gulf of Maine Greater Wind Speeds
 - 3) Exiting Deepwater ports and infrastructure
- In light of these factors, SPO produced seven initial planning areas that met the following criteria:
 - 1) Within Maine's Coastal Waters
 - 2) Primarily 200 foot depths or greater (~30 fathoms)
 - 3) Average Annual Wind Speed of 17mph or greater
 - 4) Free of underwater obstructions



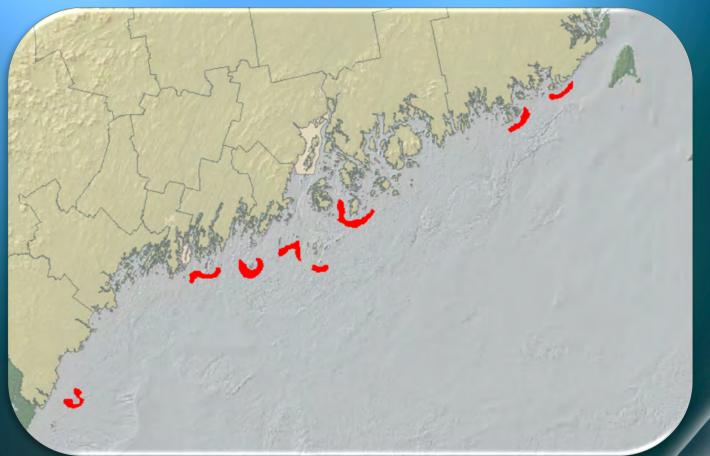


COASTAL AND MARINE SPATIAL DATA



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PLANNING AREAS





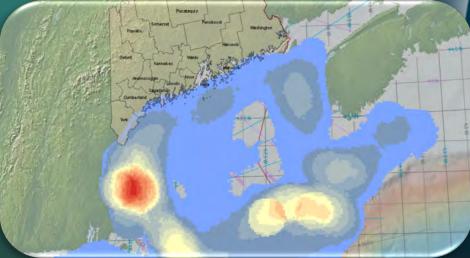


SCOPING MEETINGS

- Preliminary conversations with marine users and municipal officials in towns adjacent to planning areas
- Provided participatory mapping materials for user feedback
- Total of ~ 40

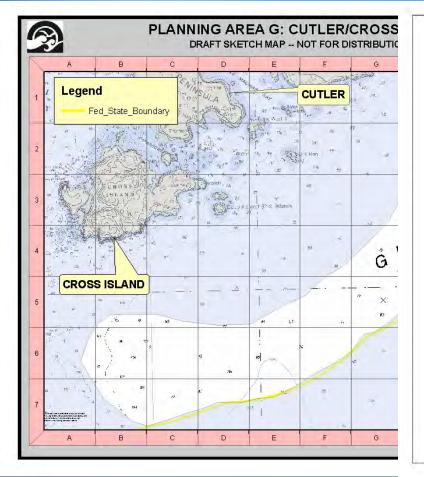






Cod Landings, Gulf of Maine

PARTICIPATORY MAPPING



Your Name

Mailing Address

RANKING LOCATIONS FOR WIND ENERGY TESTING

Phone Email

Community: Cutler/Cross Island

CHART WORKSHEET

Block LD.	COMMENT
-	
10	
1	
-	



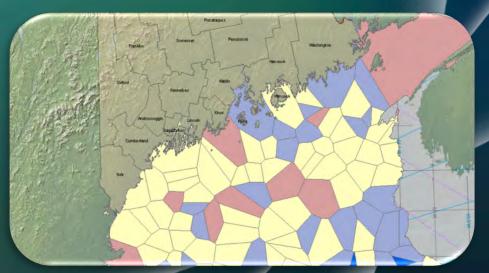


ADDITIONAL SPATIAL ANALYSIS

- Additional Data Included:
 - Biological
 - Habitat
 - Geophysical
 - Additional Human Activities
 - Scenic Areas







Surficial Estimates, TNC

PUBLIC MEETINGS

- Five Regional, Public Meetings
 - Rockland, Machias, Wiscasset, Wells, and Ellsworth
 - Well-attended, public information and feedback collection sessions
 - Additional participatory mapping information collected

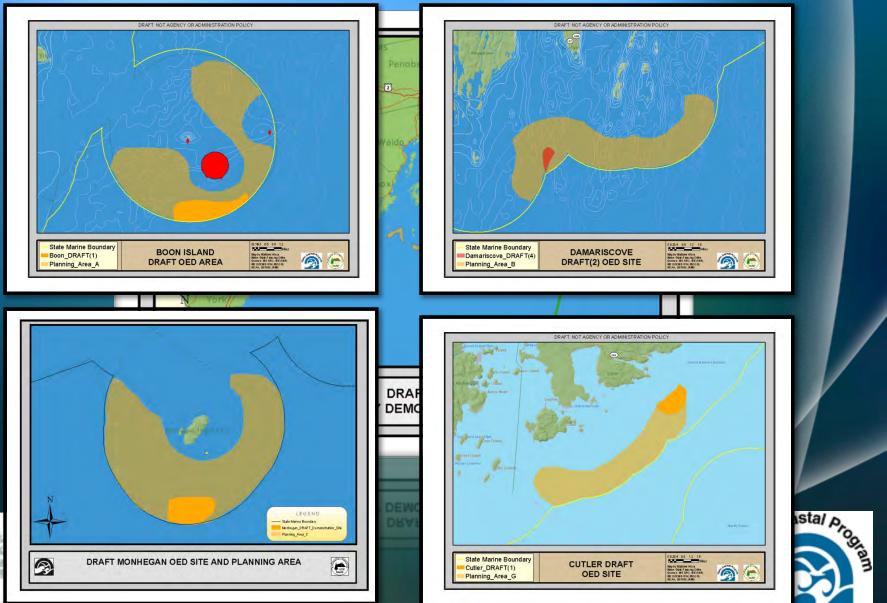






Transportation, Pemquid Peninsula

DRAFT RELEASE



SECONDARY SCOPING MEETINGS

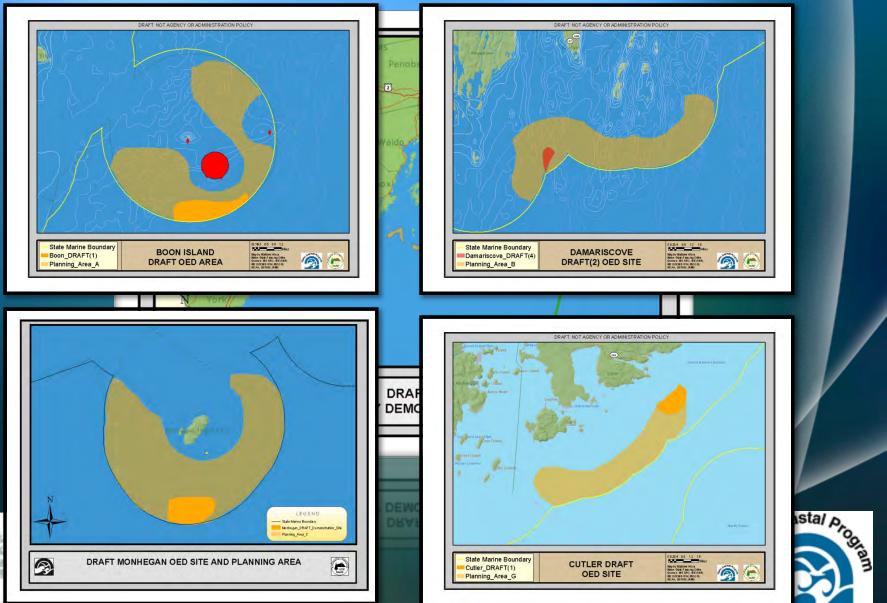
- Return trips to areas adjacent to four DRAFT sites
- Additional consultation with stakeholders and agency personnel.
- Final push for any spatial data that may be missing and/or critical





Lease Blocks and Ocean Boundaries

FINAL DESIGNATION



ACTIVITIES WITHIN THE SITES

(1) Up to 3 meteorological towers per wind energy turbine proposed;

(2) One submerged utility line that is sized to transmit:

(a) An amount of electricity less than or equal to that produced by the offshore wind energy demonstration project; or

(b) Up to 25 megawatts of electricity if the line is intended to serve multiple offshore wind energy demonstration projects located within the Maine Offshore Wind Energy Research Center and the department has not previously granted approval for such a submerged utility line pursuant to this section; and

(3) A wave energy test project.

Source: SP0545, LR 1969, item 1, Signed on 2009-06-04 00:00:00.0 – Page 3

SITE CHARACTERISTICS

BOON ISLAND

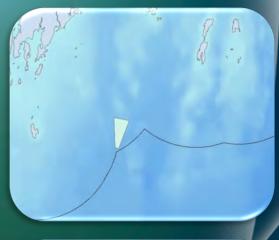
- ~2 Square Miles In Area
- ~7 Nautical Miles from Mainland
- ~8 NM from Portsmouth
- ~30 NM from Portland
- Will be mapped Summer '11
- Close to major transmission interconnect
- Contains Shallow (>90M Depths) and Deepwater Depths
- Very close (1NM) from OCS Slope



SITE CHARACTERISTICS

DAMARISCOVE ISLAND

- .5 Square Miles in Area
- ~4 Nautical Miles from the Mainland
- Mapped MDMR and MCP in October, '10
- ~12 NM Miles from Wiscasset
- ~15 NM from Bath Iron Works

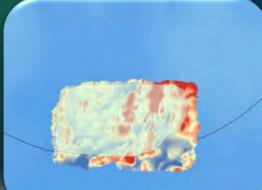


SITE CHARACTERISTICS

MONHEGAN ISLAND

- University of Maine Test Center
- ~2 Square Miles in Area
- ~10 Nautical Miles from the Mainland
- Mapped MDMR in September, '10





ADDITIONAL INFORMATION

- <u>http://www.maine.gov/spo/specialprojects/OETF/index.h</u> <u>tm</u>
- <u>http://www.maine.gov/doc/initiatives/oceanenergy/oceanenergy.shtml</u>
- <u>http://www.boemre.gov/offshore/renewableenergy/stat</u> <u>eactivities.htm#Maine</u>
- <u>http://www.maine.gov/mpuc/electricity/rfps/standard_off</u> <u>er/deepwater2010</u>





Questions, Comments, or Concerns?

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