

DOCKETED

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Workshop on Assembly Bill 525

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10/6/22



Overview

- To inform California's offshore wind energy planning, OPC is funding two spatial modeling studies:
- Model Enhancements and Support for California Offshore Wind Energy Planning and Prioritization
By Conservation Biology Institute
- Using Available Data to Identify Offshore Wind Energy Areas
By Point Blue Conservation Science





CBI Project: Goals

- Synthesize over 200 key datasets related to OSW planning, including energy potential, deployment feasibility, ocean uses, and marine life data.
- Develop spatial modeling (Environmental Evaluation Modeling System, EEMS) that integrates key datasets and displays distributions. Available at: www.osw.eemsonline.org
- Make data and analyze results of spatial modeling accessible online so decision makers and stakeholders can explore.



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CBI Project: Updated Data and Accessibility

California Offshore Wind Energy Gateway
In support of the Intergovernmental Renewable Energy Task Force

Search by keyword or location

powered by DATA BASIN

Get Started **Explore** **Create** **Community** **Workspace**

What is the Offshore Wind Energy Gateway?

What can I do?

How do I start exploring?

The Offshore Renewable Wind Energy Gateway assembles geospatial information on ocean wind resources, ecological and natural resources, ocean commercial and recreational uses and community values. This information will help identify areas off of California that are potentially suitable for wind energy generation.

[read more](#)

Wind Energy Resource & Demand **Jurisdictions & Boundaries** **Bathymetry & Geology** **Marine Fisheries**

Infrastructure **Marine Protected Areas** **Habitat & Wildlife** **Ocean Uses**





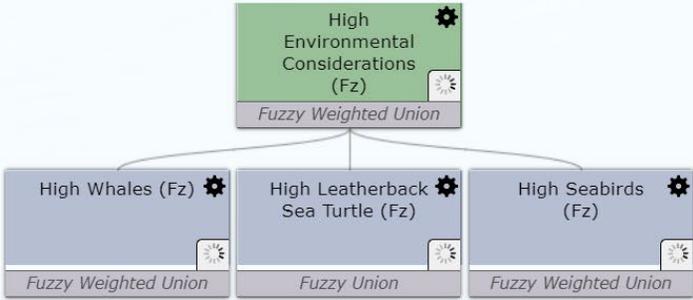
CBI Project: Updated Results

 **OCEAN PROTECTION COUNCIL** CALIFORNIA OFFSHORE WIND ENERGY MODELING PLATFORM POWERED BY **EEMS ONLINE**

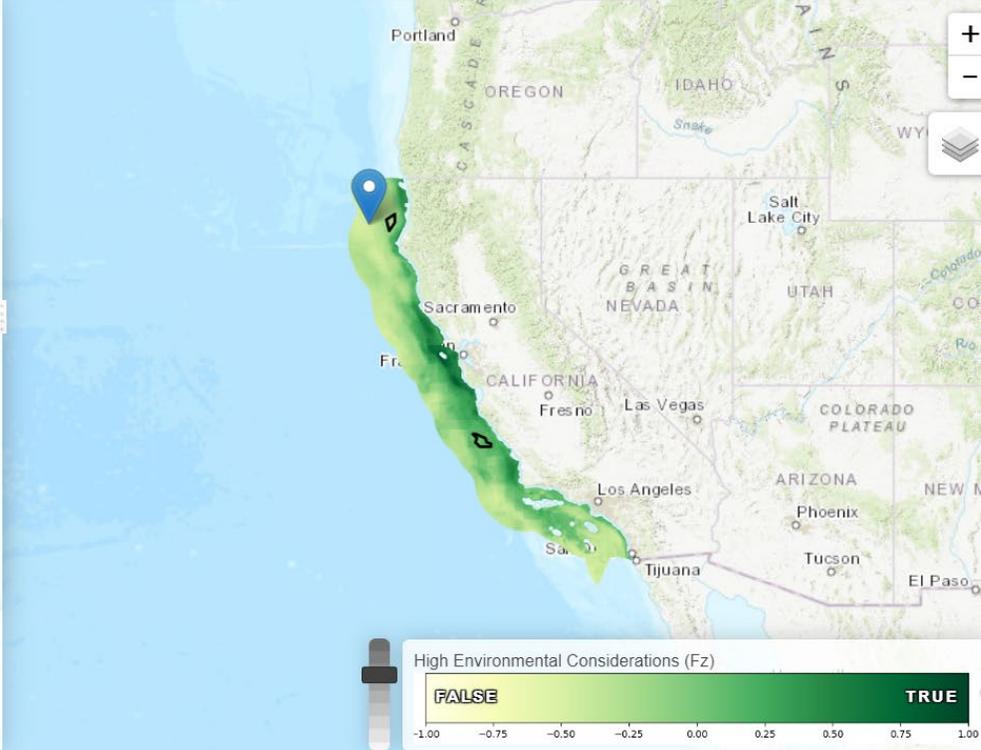
Home Introduction Learn About the Models and Applications **Explore the Models** LOGIN

1 Select a model: 4. High Environmental Co **2** Explore and modify the model below

Model Description: CA OSW High Environmental Considerations EEMS model. [Learn more...](#)



```
graph TD; A[High Environmental Considerations (Fz) - Fuzzy Weighted Union] --- B[High Whales (Fz) - Fuzzy Weighted Union]; A --- C[High Leatherback Sea Turtle (Fz) - Fuzzy Union]; A --- D[High Seabirds (Fz) - Fuzzy Weighted Union];
```



3 Run the model
Map Quality: Low (fastest) **4** Download Get Link



CBI Project: Next Steps

- Enhance environmental considerations and ocean use components in the EEMS models based on the highest state and stakeholder priorities
 - Ongoing until October 2022
- Support, train, and outreach to key stakeholders and state agency staff
 - Ongoing until October 2022
- Update data/model documentation and the online tools
 - expect to finish in Oct 2022





Point Blue Project: Goals

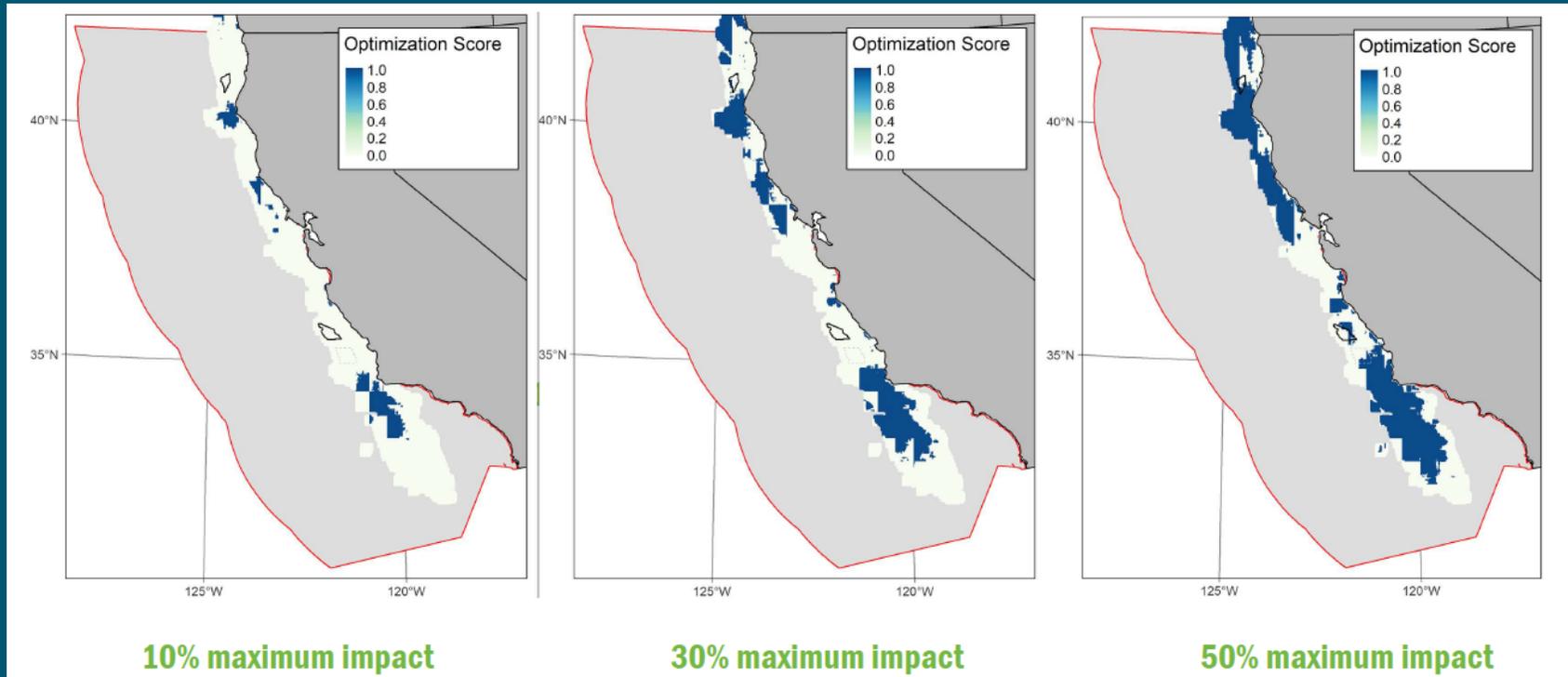
- Collect and process key datasets that represent OSW potential, marine life, marine environment, and ocean uses. Identify key data gaps.
- Develop siting models that integrate key datasets to assess the benefits and impacts of areas. Includes sensitivity of wildlife to impacts.
- Identify areas that balance benefits and impacts under different scenarios to guide siting.





Point Blue Project: Methodology and Preliminary Results

Areas that optimize energy output and minimize wildlife and human use impact at different ranges.





Point Blue Project: Next Steps

- Continue to update and enhance datasets
 - expect to finish in Feb 2023
- Improve sensitivity scores using scientist surveys and expert workshops
 - expect to finish in Feb 2023
- Publish peer-reviewed articles
 - Expect to finish in Nov 2023

