

**Michigan
Great
Lakes
Wind
Council**

Council's Mapping Criteria and Results

Updated January 2010

Great Lakes Wind Council

- Appointed by Governor Granholm in February 2009; extended through December 31, 2010
- Serves as 29-member advisory body to Department of Energy, Labor & Economic Growth to make recommendations related to offshore wind
- One of key charges was to recommend criteria to identify and map the least and most favorable areas for offshore wind energy development
- Council does not review or make recommendations related to specific offshore wind projects

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Council's Recommended Criteria

- Shoreline (6-mile nearshore view buffer)
- National park lakeshores
- Shoreline parks and wilderness
- Shipwrecks
- State bottomland preserves
- Underwater archeological sites
- Commercial fishing areas
- International and state boundaries
- Shipping lanes
- Aids to navigation
- Buoyed navigation channels
- Coastal airports
- Military operation areas
- Submerged transmission lines
- Habitat/biological (5 criteria)
- Disposal sites
- Harbors/marinas
- Large river mouths

Criteria are applied to mapping tool, or "decision support tool," developed by U-M/DNR Institute for Fisheries Research (IFR). Some data still needed.

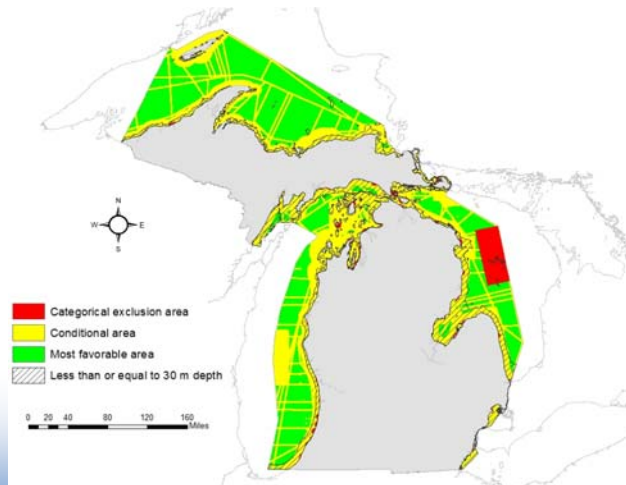
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Criteria Used to Define Areas into 3 Categories

- **Categorical exclusion:** Bottomlands that are not suitable for development due to existing uses and/or state or federal laws that provide for other exclusive uses (for example, navigation channels, coastal airport setbacks, etc).
- **Conditional:** Bottomlands that may have potential for development, but contain one or more potentially competing value such as wildlife habitat, harbors, commercial fishing, shoreline, shipwrecks, etc.
- **Most favorable:** Bottomlands outside of categorical exclusion areas and conditional areas that do not contain any features defined by the screening criteria.

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Application of Council's Criteria Using IFR's Mapping Tool



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Square Miles at Water of Different Depths

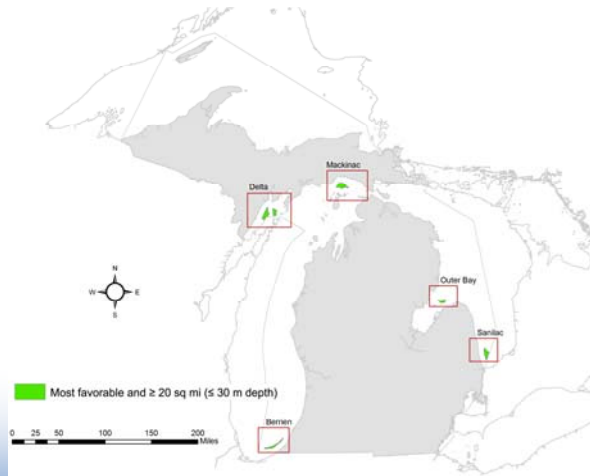
- Total state-owned bottomlands: 38,448 square miles

Council category	No depth restrictions (sq. mi.)	Depth of area ≤ 45m (sq. mi.)	Depth of area ≤ 30m (sq. mi.)
Categorical exclusion (red)	1,717	528	356
Conditional (yellow)	21,704	9,282	7,195
Most favorable (green)	15,027	838	323
Total area sq. miles	38,448	10,648	7,874

SOURCE: Institute for Fisheries Research, UM/MDNR, January 2010.

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Most Favorable Areas at Least 20 Square Miles (as of January 2010)



SOURCE: Institute for Fisheries Research, UM/MDNR, January 2010.

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