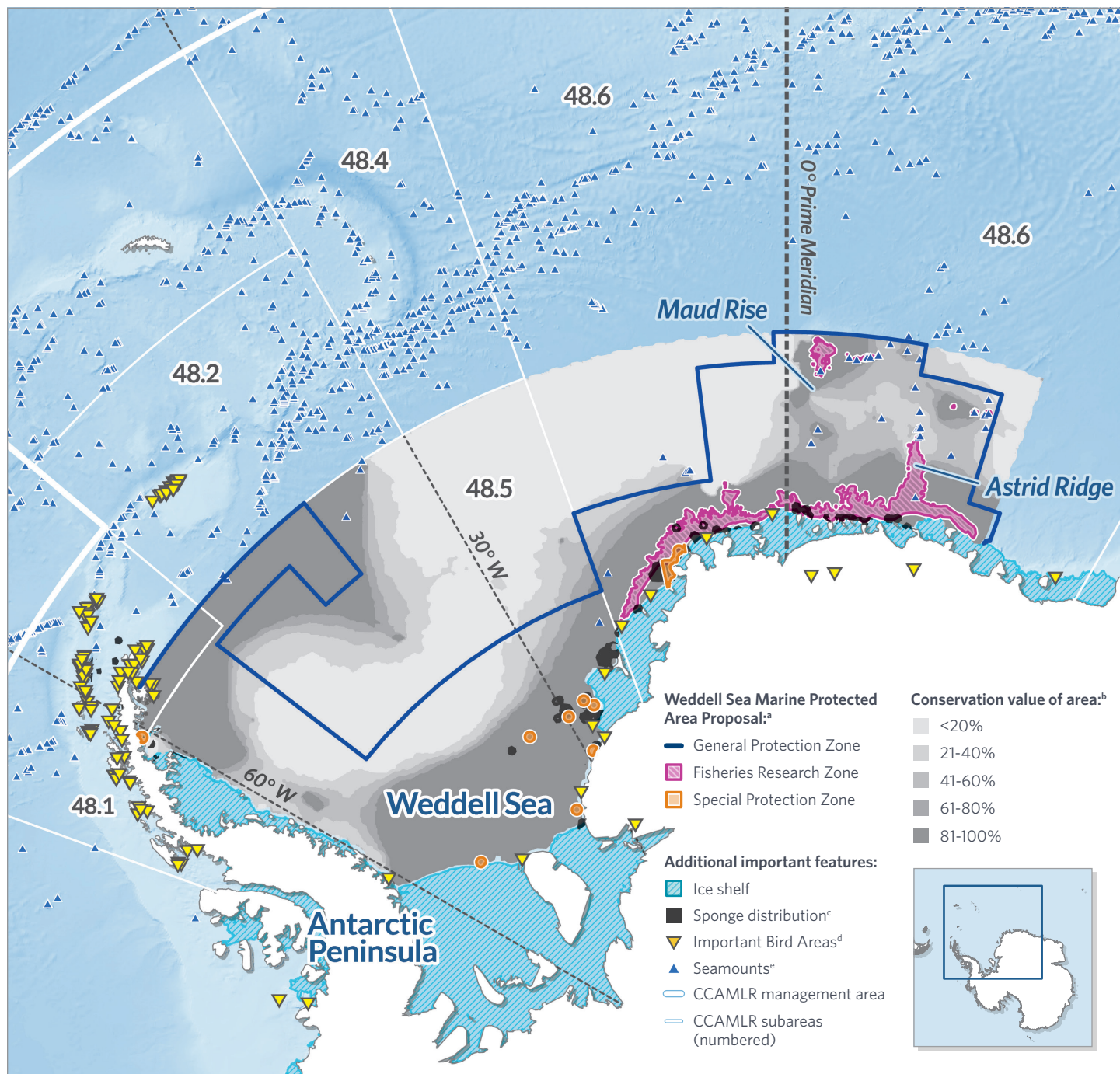


Protection for the Weddell Sea

Effort would continue momentum, safeguard vital Southern Ocean waters



Note: The “conservation value of area” represents the percentage of time an area was selected for protection using the Marxan model.

Sources: ^aCommission for the Conservation of Antarctic Marine Living Resources, “EU Proposal to Establish the Weddell Sea MPA (WSMPA)” (2018); ^bKatharina Teschke et al., “Scientific Background Document in Support of the Development of a CCAMLR MPA in the Weddell Sea (Antarctica)—Part C: Data Analysis and MPA Scenario Development” (2016), <http://epic.awi.de/41178>; ^cUnpublished sponge distribution in Weddell Sea MPA planning area provided by the Alfred Wegener Institute; ^dC.M. Harris et al., “Important Bird Areas in Antarctica: 2014 Summary,” BirdLife International and Environmental Research & Assessment Ltd.; ^eChris Yesson et al., “Knolls and Seamounts in the World Ocean: Links to Shape, KML, and Data Files,” Pangaea (2011), <https://doi.org/10.1594/PANGAEA.757563>; Topobathy and Topobathy Hillshade baselayers from ESRI; Land and Bathymetry from Natural Earth

Overview

The Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) is considering a proposal that would create a marine reserve in the Weddell Sea covering nearly 790,000 square miles (over 2 million square kilometers). The Weddell Sea is a remote, ice-covered embayment east of the Antarctic Peninsula, and one of the most pristine marine ecosystems in the world. This area is a unique habitat known for its outstanding biodiversity, including Antarctic petrels, emperor and Adélie penguins, and multiple species of seals and whales. Far below the sea ice, nutrient-rich benthic ecosystems form key habitat for an array of creatures found nowhere else on Earth, such as glass sponges and cold-water corals.

The Pew Charitable Trusts supports the establishment of permanent, large, no-take marine reserves based on scientific evidence that they strengthen ecosystem health, rebuild biodiversity, and boost climate resilience.

Recommendations

The current proposal includes several positive conservation measures, encompassing three zones, which could be substantially strengthened.

General Protection Zone (GPZ)

- Pew supports the GPZ and would oppose any reduction to the high level of protection it affords the area, especially for areas east of the prime meridian, such as Astrid Ridge, Maud Rise, and nearby seamounts.
- The proposed protections must be maintained to ensure the entire Weddell Gyre ecosystem is safeguarded, and should be expanded to cover more areas of high conservation value in CCAMLR management subareas 48.5 and 48.6.

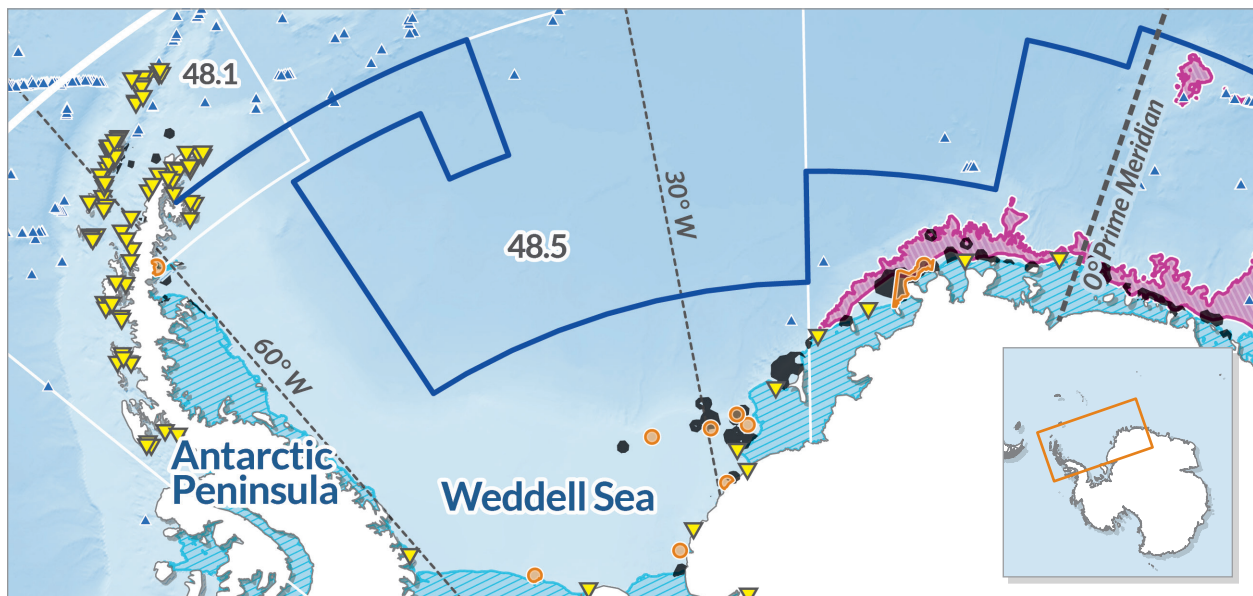
Special Protection Zone (SPZ)

- The SPZ is constrained in area based on known nesting sites and vulnerable marine ecosystems (VMEs).
- To be precautionary, this zone should be enlarged to encompass other likely (but unverified) VME areas, nesting grounds, and additional sensitive areas as these become known.
- Rare, biodiverse, and endemic habitats and features—including canyons, seamounts, and additional sponge habitat—should be fully protected from fishing activities.

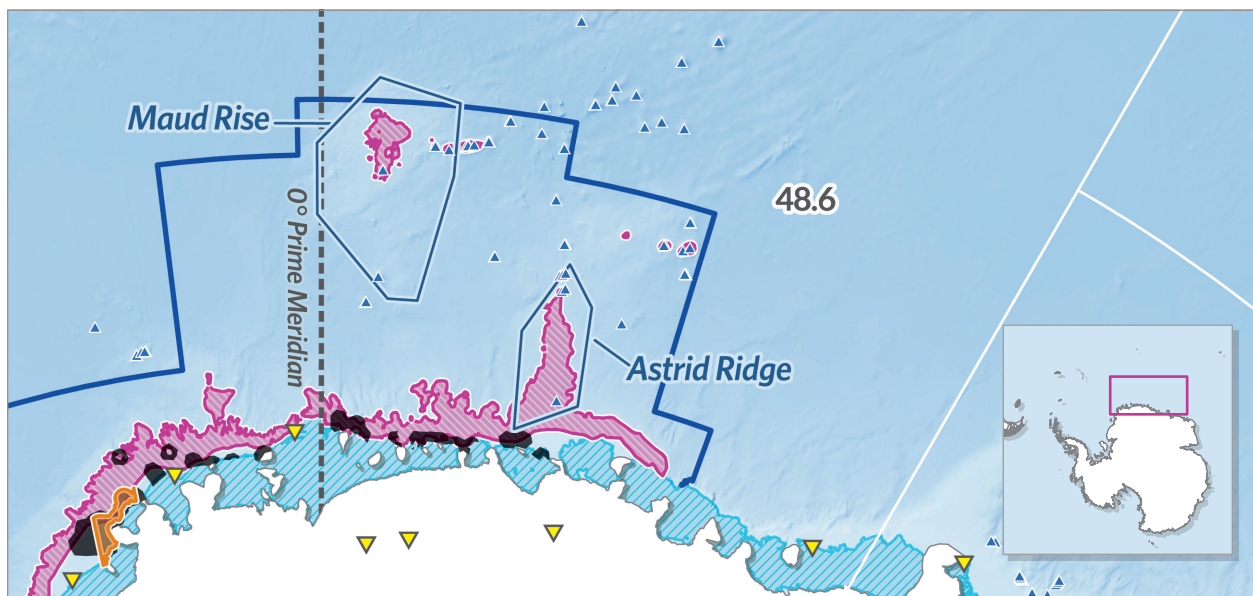
Fisheries Research Zone (FRZ)

- Boundaries and objectives for the proposed FRZ in CCAMLR subarea 48.6 should be clarified and borders should be adjusted to minimize impact on priority conservation areas (e.g., Maud Rise and Astrid Ridge).
- No more than 20 percent of known toothfish habitat should be included from subarea 48.6, reduced from the current 90 percent.
- Research fishing blocks already established by CCAMLR Conservation Measure 41-04 should serve as the FRZ for a period (e.g., one to three years) and then be evaluated based on advice from the Scientific Committee.

MPA proposal detail west of Prime Meridian



MPA proposal detail east of Prime Meridian



Weddell Sea Marine Protected Area Proposal:^a

- General Protection Zone
- Fisheries Research Zone
- Special Protection Zone

Additional important features:

- Ice shelf
- Sponge distribution^b
- Important Bird Areas^c
- ▲ Seamounts^d
- Bathymetric feature^e
- CCAMLR management area

- CCAMLR subareas (numbered)

Note: MPA proposal boundaries are under ongoing negotiation.

Sources: ^aCommission for the Conservation of Antarctic Marine Living Resources, “EU Proposal to Establish the Weddell Sea MPA (WSMPA)” (2018); ^bUnpublished sponge distribution in Weddell Sea MPA planning area provided by the Alfred Wegener Institute; ^cC.M. Harris et al., “Important Bird Areas in Antarctica: 2014 Summary,” BirdLife International and Environmental Research & Assessment Ltd.; ^dChris Yesson et al., “Knolls and Seamounts in the World Ocean: Links to Shape, KML, and Data Files,” Pangaea (2011), <https://doi.org/10.1594/PANGAEA.757563>; ^eIHO-IOC GEBCO Gazetteer of Undersea Feature Names, www.gebco.net; Topobathy and Topobathy Hillshade baselayers from ESRI; Land and Bathymetry from Natural Earth

For further information, please visit:
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