HIGH LEVEL PANEL *for*

A SUSTAINABLE OCEAN ECONOMY

Havet:
Et offer for klimakrisen. Og en løsning.

Klimamarin 13. november

ipcc

INTERGOVERNMENTAL PANEL ON climate change

The Ocean and Cryosphere in a Changing Climate

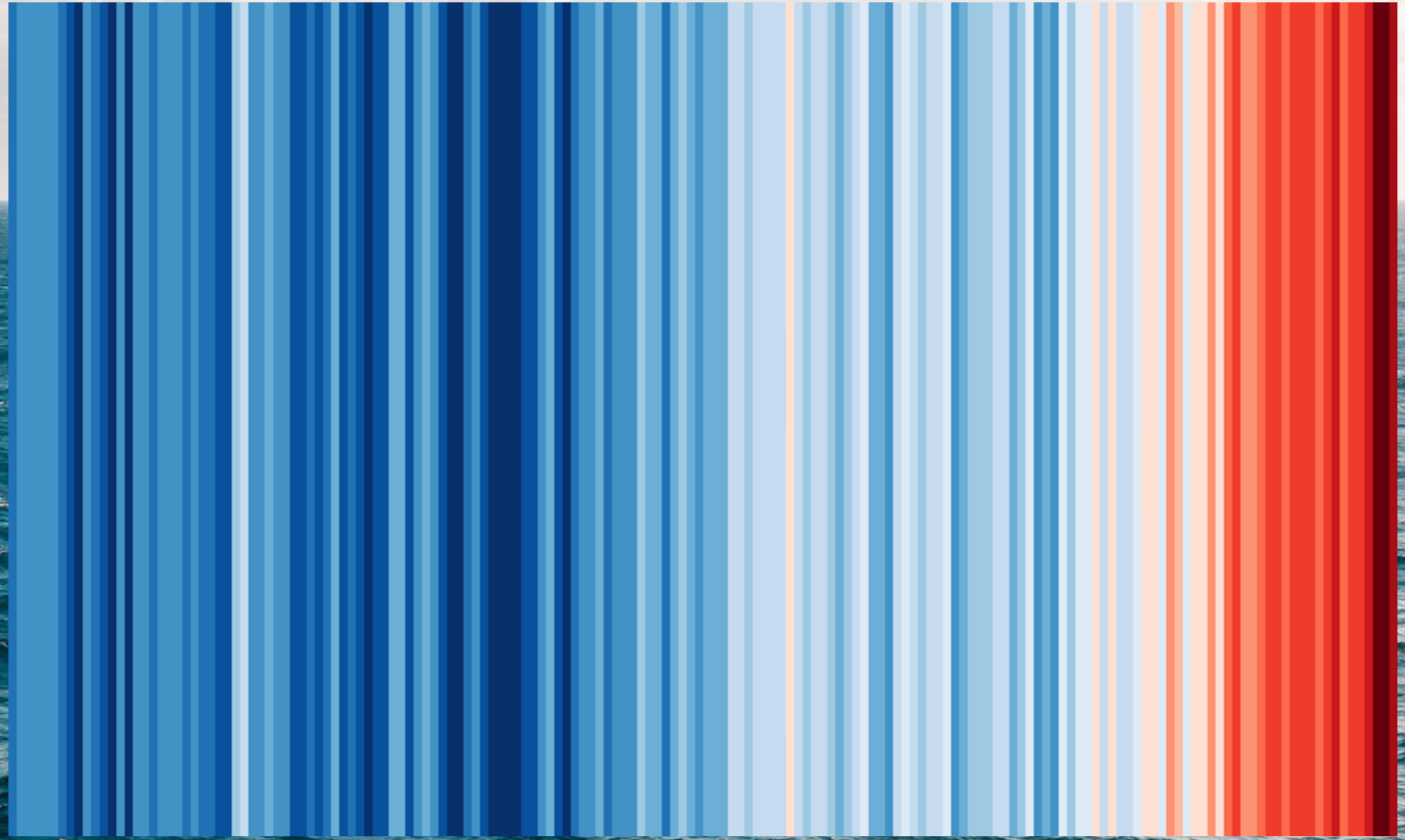
This Summary for Policymakers was formally approved at the Second Joint Session of Working Groups I and II of the IPCC and accepted by the 51th Session of the IPCC, Principality of Monaco, 24th September 2019

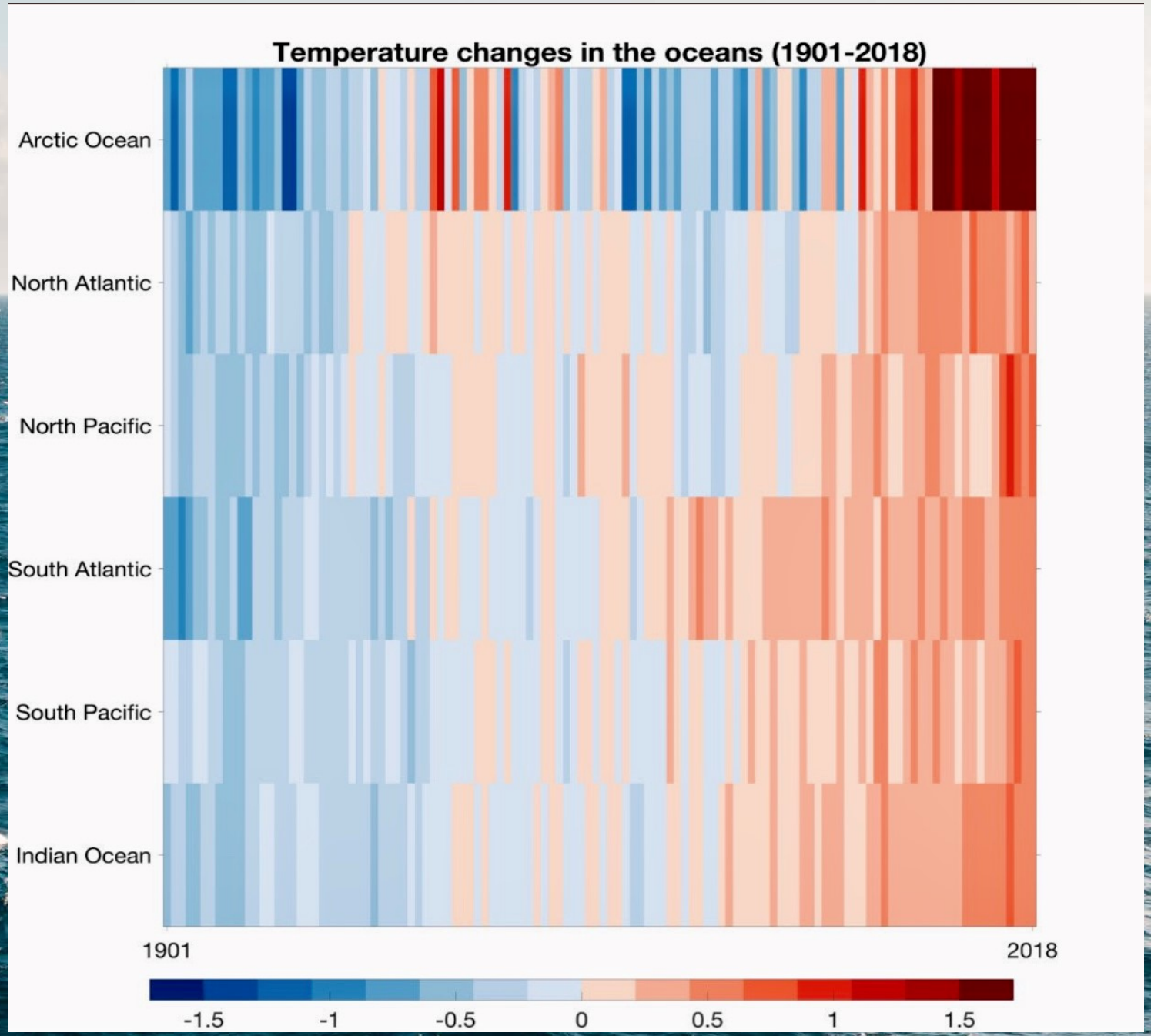
Summary for Policymakers

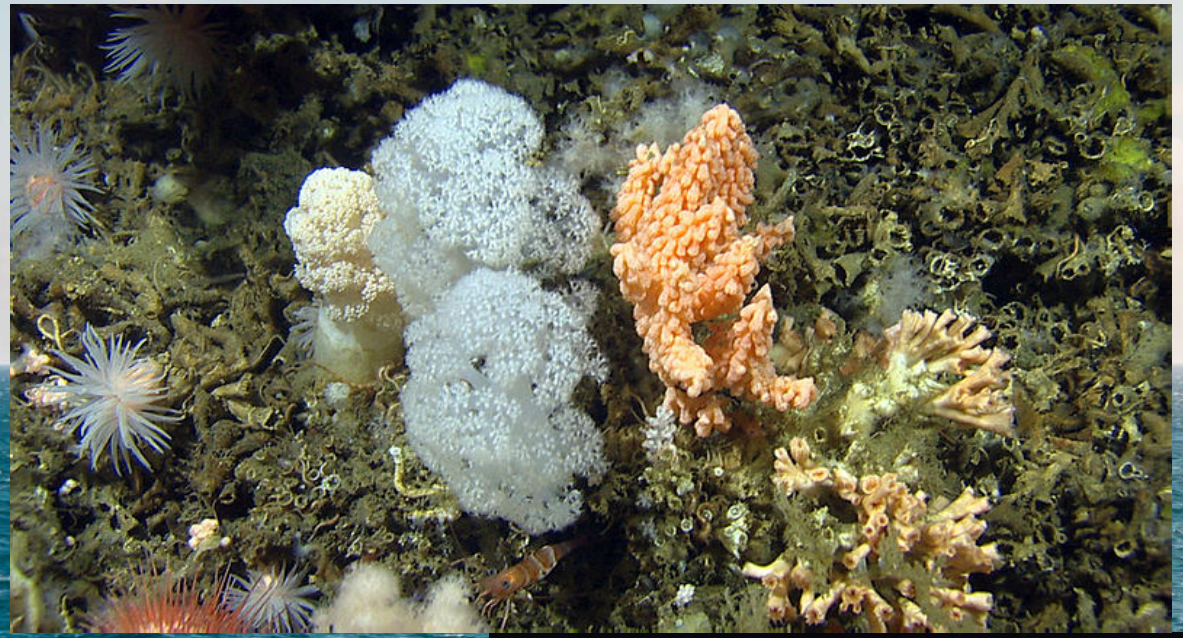


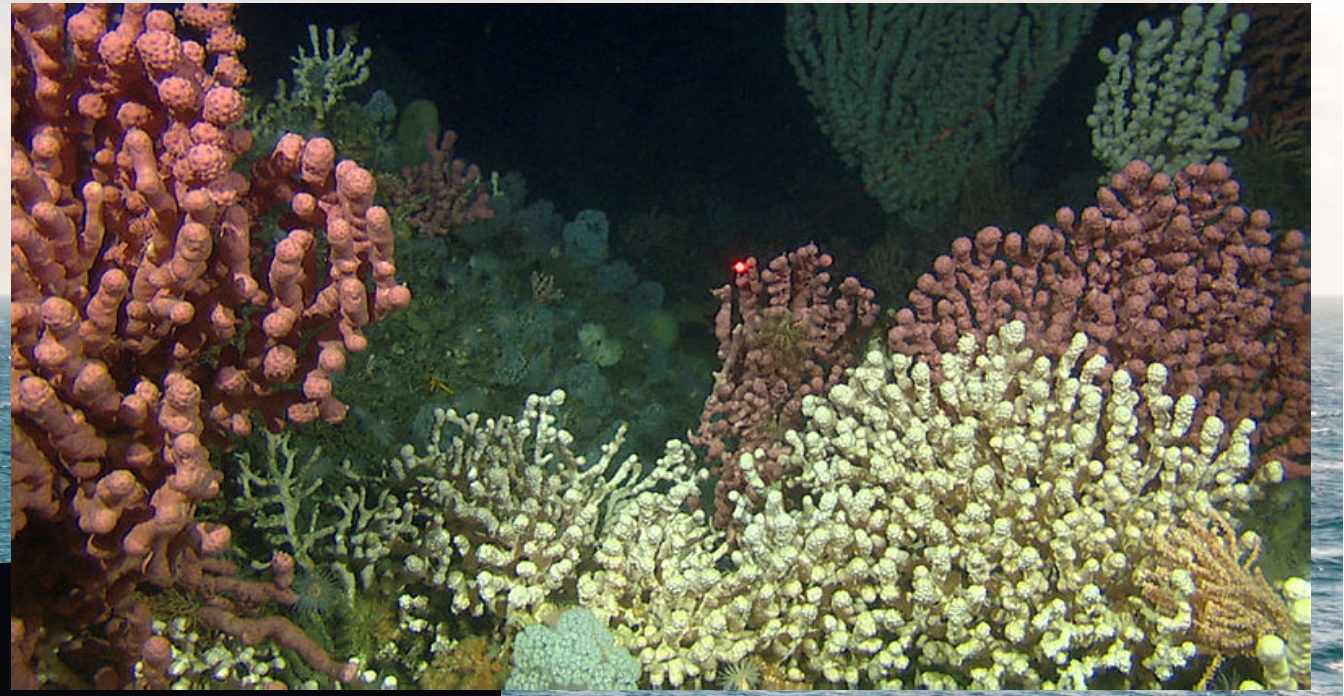
WG I X WG II

WMO UNEP




Temperature changes in the oceans (1901-2018)
Arctic Ocean
North Atlantic
North Pacific
South Atlantic
South Pacific
Indian Ocean
1901
2018
-1.5
-1
-0.5
0
0.5
1
1.5









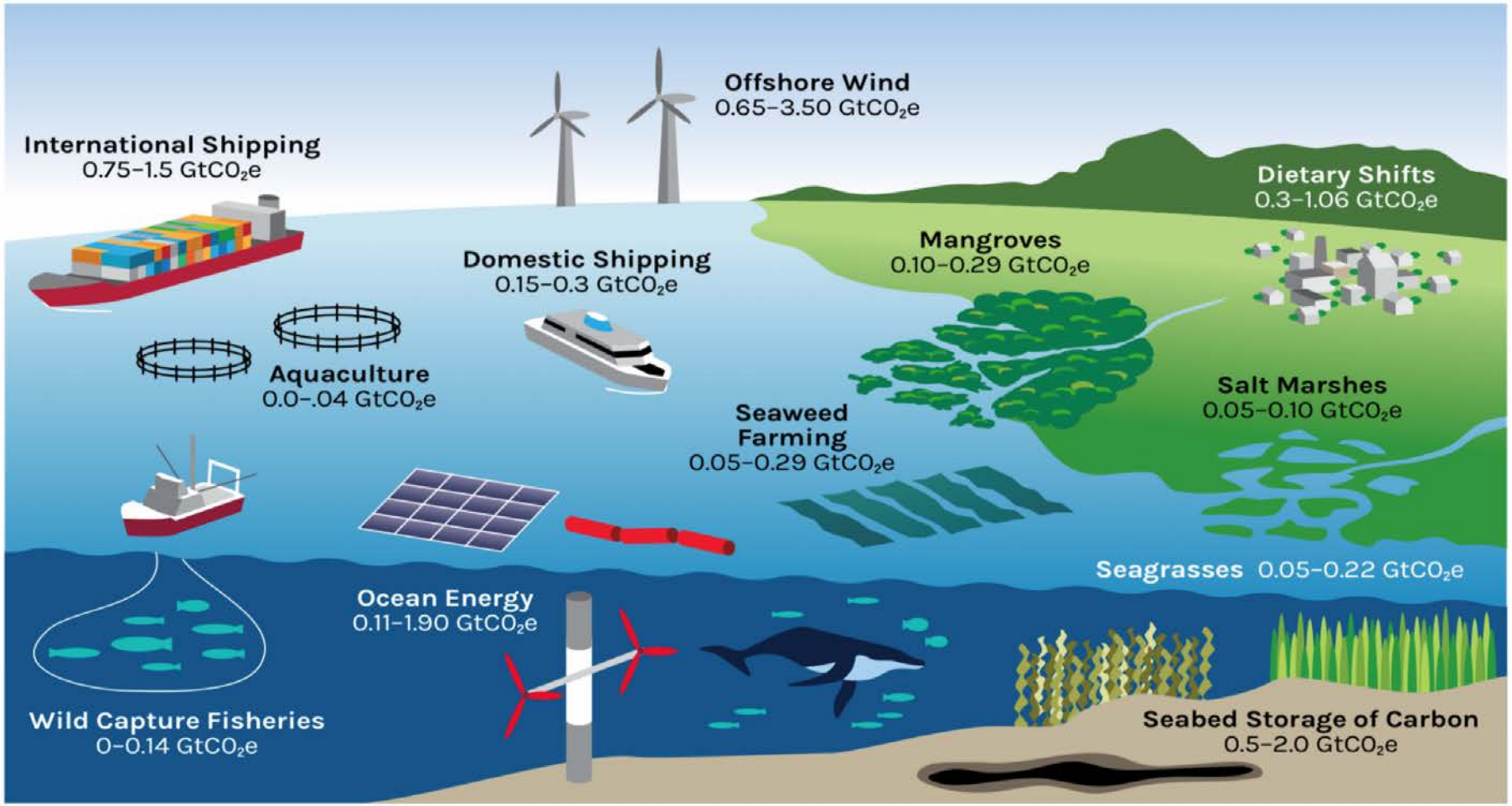

Vattenkikaren
LP






HIGH LEVEL PANEL for
A SUSTAINABLE
OCEAN ECONOMY
The Ocean as a Solution to Climate Change
Five Opportunities for Action
CONVENING LEAD AUTHOR
Ove Hoegh-Guldberg
EXPERT AUTHORS:
Ken Caldeira, Thierry Chopin, Steve Gaines, Peter Haugan, Mark Hemer, Jennifer Howard, Manaswita Konar, Dorte Krause-Jensen, Elizabeth Lindstad, Catherine E. Lovelock, Mark Michelin, Finn Gunnar Nielsen, Eliza Northrop, Robert Parker, Joyashree Roy, Tristan Smith, Shreya Some, and Peter Tyedmers
oceanpanel.org

Figure ES-1. Ocean-based Mitigation Options Explored in This Report and Associated Annual Mitigation Potential in 2050

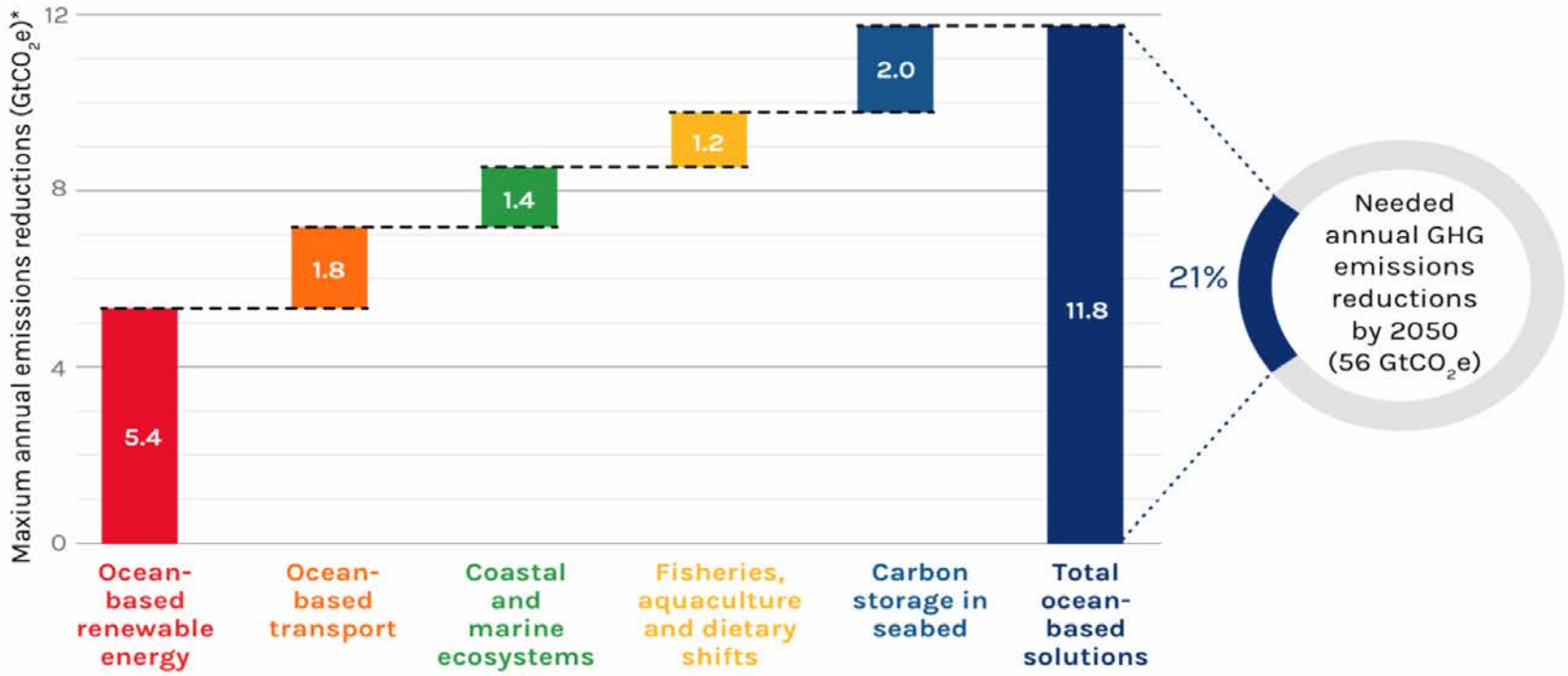


Source: Authors

*Notes: * To stay under a 1.5°C change relative to pre-industrial levels*

Source: Authors

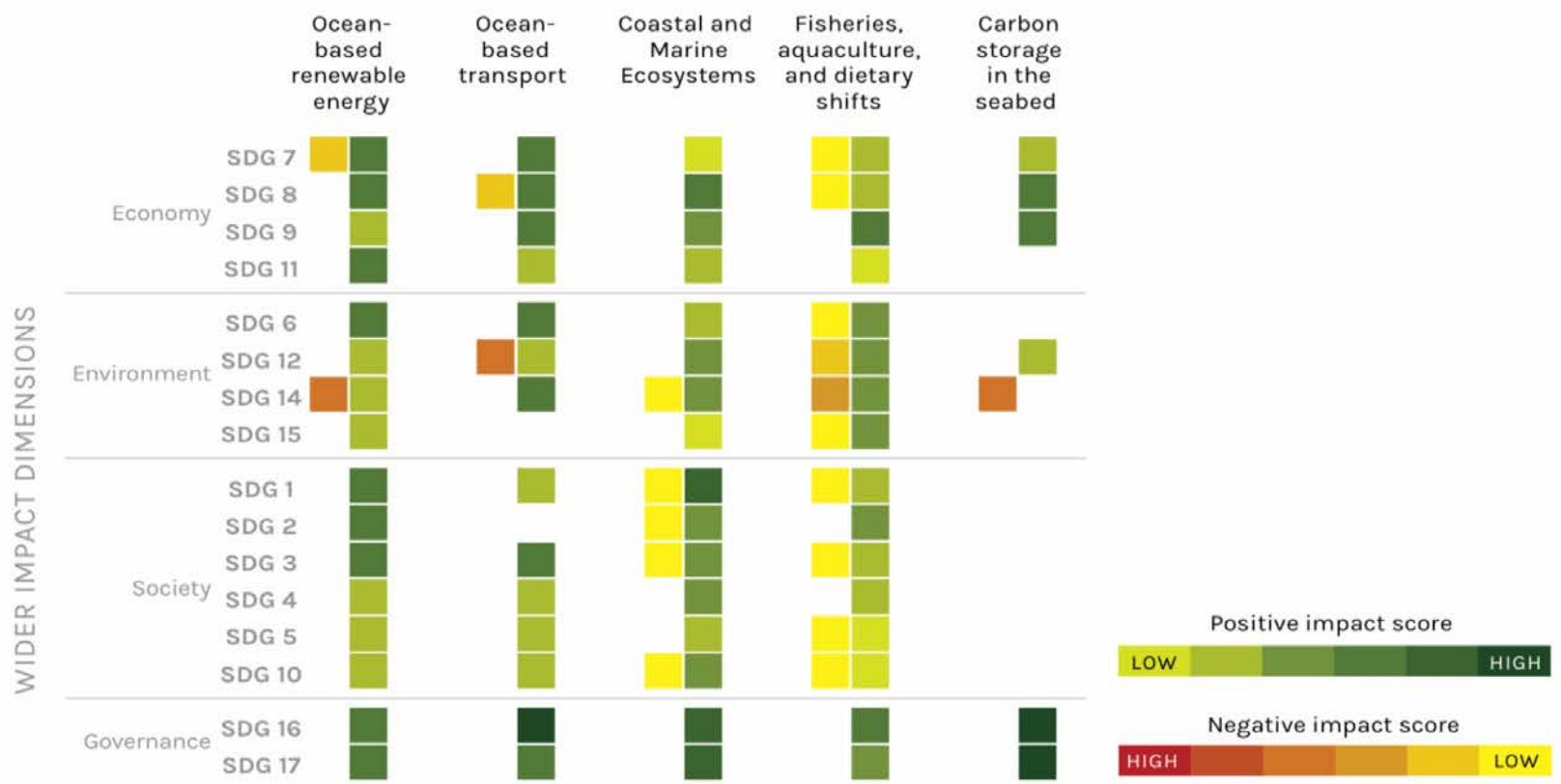
Figure ES-4. Contribution of Five Ocean-based Climate Action Areas to Mitigating Climate Change in 2050 (Maximum $GtCO_2e$)



*Notes: * To stay under a 1.5°C change relative to pre-industrial levels*

Source: Authors

Figure ES-5. Summary of Wider Impact of Ocean-based interventions on Sustainable Development Dimensions



List of Sustainable Development Goals reviewed:



Source: Authors

Notes: Wider-impact dimensions cover various sustainable development dimension indicators as well as 2030 Sustainable Development Goals (SDG). The figure shows the relative strength of the relationship between the ocean-based areas of interventions and the SDGs. The relationship between each ocean-based mitigation option and SDG is given a linkage score, positive scores shown by green boxes and negative scores shown by yellow/red boxes. Scores range from +3 (indivisible) to −3 (cancelling) (Nilsson et al. 2016). A zero score (no bar and no colour) means no impact was found in this review of the literature. For intervention areas where there is more than one mitigation option, an average of the linkage score is taken among the mitigation options in that area. Further information on the linkage scores and the associated confidence levels are provided in the Annex.


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