

Developing the IMBeR Action Plan for the Ocean and the OCEAN100+ Team

Murphy, E.J.^{1*}, Robinson, C.², Hobday, A.J.³, Burgun, E.^{4*}, Evans, K.⁵, Brodie, S.⁶, Claydon, J.⁷, Dickey-Collas, M.⁸, Kaikkonen, L.⁹, Shellock, R¹⁰ & IMBeR Action Plan Team¹¹

¹Ecosystems, British Antarctic Survey, Cambridge, UK

²School of Environmental Sciences, University of East Anglia, Norwich, UK

³CSIRO, Hobart, Tasmania, Australia

⁴IMAS, University of Tasmania, Hobart, Australia

⁵UNESCO, Paris, France

⁶CSIRO Environment, Brisbane, Australia

⁷john.claydon@gmail.com

⁸mark.dickeycollas@gmail.com, UK

⁹University of Helsinki, Helsinki, Finland

¹⁰University of NSW, Canberra, Australia

¹¹Author team: Murphy et al. 2021 Front. Mar Sci.

***Correspondence**

Eugene Murphy, British Antarctic Survey, Cambridge, UK, e.murphy@bas.ac.uk

Ella Burgun, IMAS, University of Tasmania, Hobart, Australia, ella@burgun.net

Abstract

Developing the IMBeR Action Plan for the Ocean and the OCEAN100+ Team

Ensuring a healthy and sustainable ocean in the future requires urgent planning and adaptation to prepare for inevitable change. The challenge is global and requires engagement from experts in multiple disciplines and with diverse perspectives from societies across the world. The scale and rapidity of ocean change is now clear, with large impacts observed over the last few years, and warnings of major future change over the coming decades. Policy driven responses to ocean change will require coordinated action across multiple scales. Here we report an initiative developed as a synthesis activity by the Integrated Marine Biosphere Research Project (IMBeR), that is developing a risk-based *Action Plan for the Ocean* to generate the required plans and options for action. The initiative has highlighted that a systematic approach is needed to develop strategies for mitigation and adaptation and to coordinate activity from local to global scales. An inclusive approach will be crucial to success, involving diverse perspectives from across scientific disciplines and societies across the world. We are developing a blueprint for ocean risk-based planning and adaptation, encompassing local, regional and global scales. To develop and implement the Action Plan for the Ocean, we are assembling an integrated, interdisciplinary ocean community, the OCEAN100+ Team. This diverse team, representing over 100 countries, will develop international capacity, build on current

activities and forge partnerships that draw on expertise from established programmes and organisations. OCEAN100+ will provide a forum for the global ocean community to actively contribute to the development of the Action Plan. The Action Plan for the Ocean initiative has emerged through the global leadership of IMBeR in ocean science and aims to continue to contribute as part of the IMBeR community to address the challenges facing our ocean.