OCEANPLAN explored the interlinks between climate change and marine spatial planning globally

PICTURE BY OLIVER SJÖSTRÖM AT PEXELS.COM

LESSONS LEARNED FROM PROJECT OCEANPLAN: MARINE SPATIAL PLANNING IN A CHANGING CLIMATE

Geodemondational Contractions

eccw@5

THE WORLD'S OCEAN 17-21 April 2023 . Bergen, Norway

CATARINA FRAZÃO SANTOS (PI) | WWW.OCEANPLAN-PROJECT.COM | CFSANTOS@FC.UL.PT | 😏 @OCEANPLAN_MSP





HEALTHY OCEAN, WHILE SUPPORTING GLOBAL OCEAN GOALS. TO THRIVE IN A CHANGING OCEAN THOUGH, MARINE SPATIAL PLANNING (MSP) MUST EFFECTIVELY INTEGRATE CLIMATE CHANGE

PROJECT OCEANPLAN (2018-2022) HIGHLIGHTED MANAGEMENT CHALLENGES, IDENTIFIED POTENTIAL PATHWAYS TO GUIDE ACTION TOWARDS THE EFFECTIVE INTEGRATION OF CLIMATE IMPACTS IN MSP, AND RAISED AWARENESS AND FOSTERED DISCUSSION ON THE TOPIC GLOBALLY



Integrating climate change in ocean planning Catarina Frazão Santos 1,2 22, Tundi Agardy³, Francisco Andrade 1,

lena Calado⁴, Larry B. Crowder⁵, Charles N. Ehler @⁴, Sara García-Morales @¹, Elena Gissi @ ^{108,9}, Michael K. Orbach¹⁰, Hans-Otto Pörtner^{1011,12} and Rui Rosa¹⁰

Climate adaptation

actions (section 3)

and mitigation

sustainability rdcu.be/b3WCS



diagardy@earthlink.ne e.edu (M.K. Orbach).

A CROWDED OCEAN UNDER A CHANGING CLIMATE

CARTOON BY BAS KÖHLER (WWW.BASKOHLER.NL)

This cartoon illustrates the challenge of meeting multiple objectives in an increasingly crowded and changing ocean—a challenge MSP will have to deal with. There is a clear reference to the Arctic Ocean, where previously inaccessible areas are becoming available for human exploitation due to reductions in sea-ice cover, and where spatial management challenges are expected to be great. There is also a clear reference to spatially dynamic marine protected areas that move with their target species.

FRAZÃO SANTOS ET AL 2020, NAT SUSTAIN

DISSEMINATION & at multiple *fora*, close to a variety of audiences (scientists, COMMUNICATION planners, policymakers)

IMPACT OCEANPLAN's research influenced a number of relevant policy documents on the topic

UPCOMING PUBLICATIONS

MARINE SPATIAL PLANNING IN THE AGE OF CLIMATE CHANGE

dynamic ocean management

Operationalizing adaptive management and governance

CLIMATE-SMART SOLUTIONS FOR MARINE SPATIAL PLANNING

The climate-smart MSP cycle needs to articulate two main phases, the integration of knowledge on climate-related impacts into the planning process (e.g., condition review, scenario planning), and the subsequent promotion of adaptive and flexible planning (e.g., dynamic zoning, adaptive governance) to respond to identified changes. Between these two cyclically interconnected phases, sits the opportunity to support and implement climate adaptation and mitigation actions. For example, knowledge gathered in the first phase can be used to establish the designation of areas for the protection of blue carbon ecosystems, while adaptive mechanisms can support the implementation of such actions, for instance through anticipatory zoning.

FRAZÃO SANTOS ET AL. IN: NAVIGATING OUR WAY TO SOLUTIONS IN MARINE CONSERVATION (In Press)

BOOK CHAPTER in "NAVIGATING OUR WAY TO SOLUTIONS IN MARINE CONSERVATION", OPEN BOOK PUBLISHERS (In Press)

OCEAN PLANNING AND CONSERVATION IN THE AGE OF CLIMATE CHANGE: A ROUNDTABLE DISCUSSION

SYMPOSIUM ARTICLE (Under prep.)

A CODE OF CONDUCT FOR CLIMATE-SMART OCEAN PLANNING

PERSPECTIVE ARTICLE (Under prep.)

GLOBAL PERCEPTIONS ON THE NEED FOR CLIMATE-SMART MARINE SPATIAL PLANNING

RESEARCH ARTICLE (Under prep.)

