



WestMED National Event – Italy

Italian National Hub and National Coordinator

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WESTMED blue economy initiative

Climate Change & marine and coastal areas

About the CC Facts (IPCC Special Reports)

About the CC-related International Processes

About CC and the Sustainable Blue Growth



Annie Spratt Unsplas



MSP plans are to contribute to resilience to Climate Change, taking into consideration climate-induced long-term changes

"The main purpose of maritime spatial planning is to promote sustainable development and to identify the utilisation of maritime space for different sea uses as well as to manage spatial uses and conflicts in marine areas. (...) Member States need at least to ensure that the planning processes result in a comprehensive planning identifying the different uses of maritime space and **taking into consideration long-term changes due to climate change**." (Paragraph 19, EU MSP Directive 2014/89/EU)

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SROCC, September 2019

INTERGOVERNMENTAL PANEL ON CLIMBTE CHARGE

The Ocean and Cryosphere in a Changing Climate

Special Report of the Intergovernmental Panel on Climate Change

Summary for Policymakers



Observed regional impacts from changes in the ocean and the cryosphere



Climate Change - Facts



Current background: unsustainable ocean uses





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(a) Schematic effect of regional sea level rise on projected extreme sea level events (not to scale)



The local situation in Italy and the Western Mediterranean

Adopted National Climate Change Adaptation Strategy:

FLORENCI

NAPLES

& DRY . ROME

HOT

In Italy the most significant expected impacts in the coming decades will be consequent to the exceptional rise in temperatures, to the increase in frequency of extreme weather events (heat waves, drought, episodes of heavy rainfall) and the reduction of average annual rainfall and flows annual rivers.

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Charles The

Early August

DROUGHT CONTINUES

BARCELONA

MARSEILLE

RISKS ASSOCIATED TO CLIMATE AND ENVIRONMENTAL CHANGES IN THE MEDITERRANEAN REGION

A preliminary assessment by the MedECC Network Science-policy interface - 2019



Climate Change impacts on Maritime Sectors

~+1.5°C

~ +4°C

Projected changes, impacts and risks for fisheries

as a result of climate change

(c) Maximum fisheries catch potential

According to the analysis of Blue Growth needs and potential per country and the 5th report on the economy of the sea in Italy issued by CENSIS in 2015, largest maritime sectors are:



"In Italy fisheries contribute about a fifth in value to the internal demand of fish products and Italy is the most productive in the Mediterranean. In Italy fishing has significant importance in historical, cultural and marine environment management terms. The nature of the future impacts of climate change on this sector deserves to be carefully analyzed." (translated from Italian -National Climate Change Adaptation Strategy)

Avoiding severity of Climate Change impacts for land and oceans

SR1.5



To limit warming to 1.5°C, CO2 emissions would need to fall by about 45% by 2030 (from 2010 levels)

To limit warming to 1.5°C, CO2 emissions would need to reach 'net zero' around 2050

The IPCC Special Report on the Ocean and Cryosphere (SROCC) from 2019 demonstrates that climate-resilient and sustainable development is only possible with immediate, drastic, coordinated and sustained mitigation measures to preserve the vital functions of the ocean, and emphasizes the urgent need for actions to reduce GHG emissions.



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Production Gap

21.11.2019

UNEP Production Gap Report 2019

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CONTRA-ACTIONS Climate Change in international processes



The UNFCCC Secretariat - Warsaw International Mechanism for Loss and Damage: Loss and damage in the marine and coastal areas associated with the impacts of climate change



MSP Planning of Maritime Activities





BLUE ACCELERATION



1990 2000 2010 2020 1970

1990 2000 2010 2020

1970

1980 1990 2000 2010 2020

1980



(Adapted from Jouffray et al., 2020)

1980

1990 2000 2010

1970 1980

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According to many recent publications:

"MSP is all about the future, a way to look forward and to guide human action toward a vision for tomorrow's ocean." (Santoz et al. 2020)

Climate Change consideration in Maritime Spatial Plans



MSPglobal: Worldwide, some MSP initiatives mention climate change, e.g. in Morocco, Malta



The EU MSP Directive (2014/89/EU) highlights that MSPs are to contribute to resilience to climate change impacts, taking into consideration climate-induced long-term changes

"(19) The main purpose of maritime spatial planning is to promote sustainable development and to identify the utilisation of maritime space for different sea uses as well as to manage spatial uses and conflicts in marine areas. Maritime spatial planning also aims at identifying and encouraging multi-purpose uses, in accordance with the relevant national policies and legislation. In order to achieve that purpose, Member States need at least to ensure that the planning process or processes result in a comprehensive planning identifying the different uses of maritime space and **taking into consideration long-term changes due to climate change**."

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Blue Economy: - MSP & Climate Change -



Pic. source: Bas Kohler

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Roundtable discussion

"The importance of MSP and the challenge of Climate Change"

- Blue & Green -

Climate Change Mitigation Climate Change Adaptation



What are the efforts of inclusion of Climate Change considerations in MSP? What are the challenges of inclusion of Climate Change considerations in MSP locally? What is a way forward with regards to the importance of MSP and the challenges of CC?

Thank you!

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