

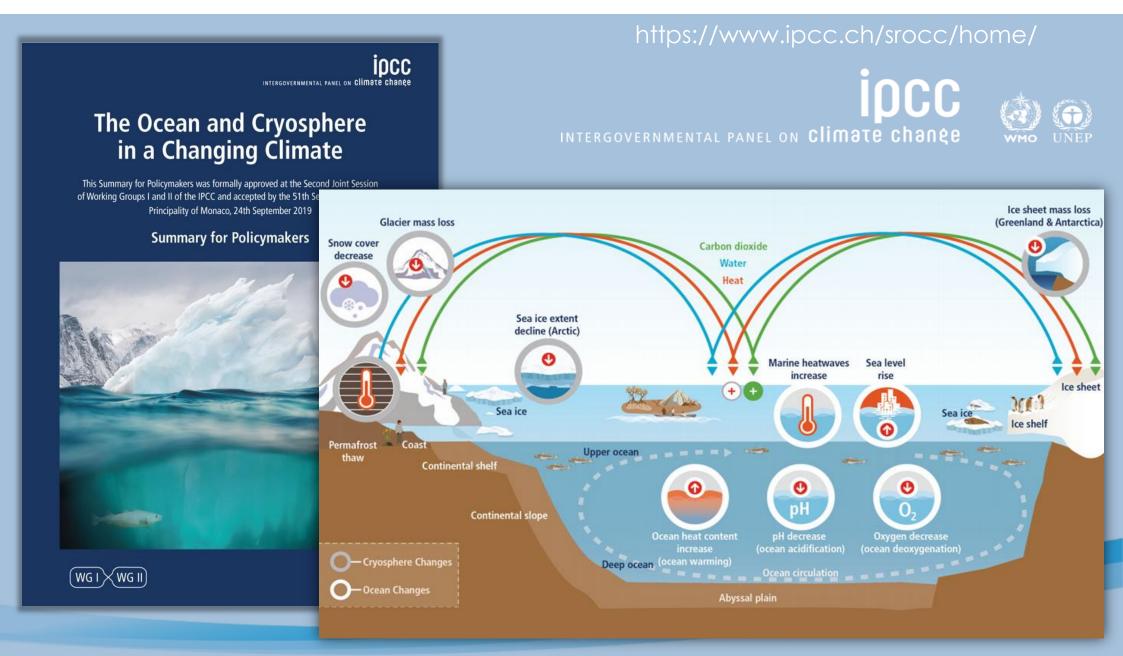
# **AdriaClim**

Climatic change information, monitoring and management tools for adaptation strategies in the Adriatic coastal areas

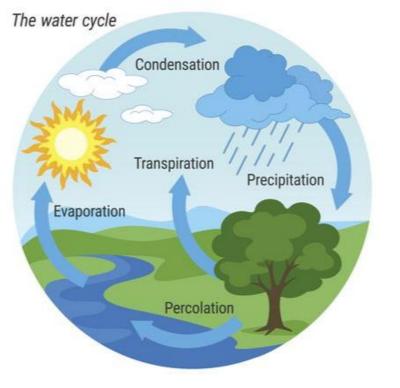
Andrea Valentini



## SPECIAL REPORT ON THE OCEAN AND CRYOSPHERE IN A CHANGING CLIMATE 2019







**All people** on Earth **depend** directly or indirectly on the **OCEAN** and **CRYOSPHERE** 

Human communities in close connection with coastal environments, small islands, polar areas and high mountains are particularly exposed to changes, such as sea level rise and melting glaciers.

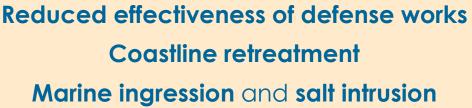
These changes are increasingly pushing adaptation responses "to their limits", with the most vulnerable people having "the lowest capacity" to respond.

Sustainable development and climate change resilience depend "critically on urgent and ambitious emissions reductions coupled with coordinated sustained and increasingly ambitious adaptation actions".

https://www.carbonbrief.org/in-depth-ga-the-ipccs-special-report-on-the-ocean-and-cryosphere

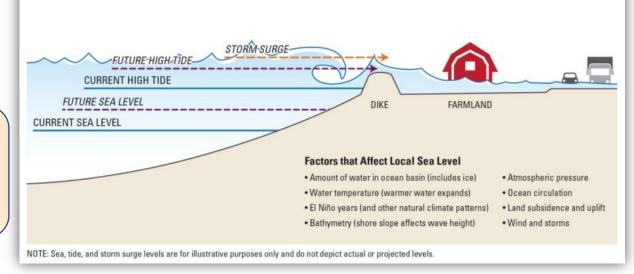


Sea level rise
Subsidence
Sea storms increasing





## Rising Sea Levels & Storm Surge



Loss of coastal habitat and ecosystems

Decay of water quality in transitional
and marine environments

Alteration of flora and fauna and the loss of biodiversity

Increase of algal and micro-algal blooms

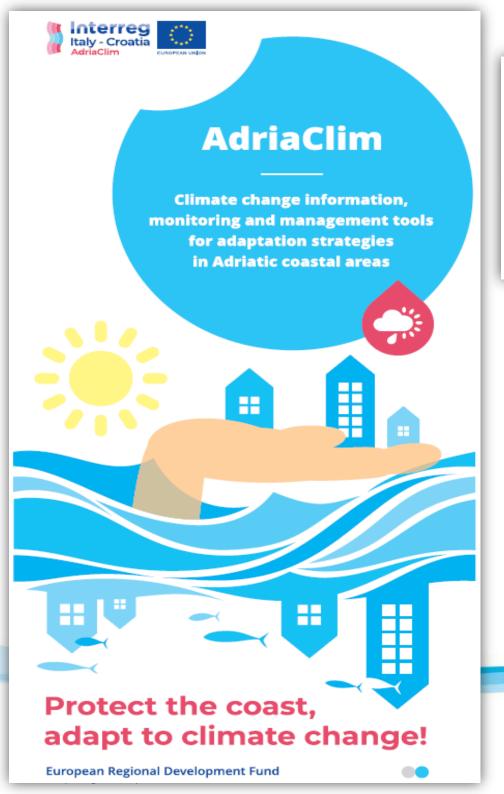
Reduction of fish stocks and/or modification of fish and benthic communities

Increase in invasive alien species

Risks for the fishing and aquaculture sector, with the **decrease in productivity** 

Risk of structural damage and business interruption





#### PROJECT PARTNERS











































Scopri di più su AdriaClim

## www.italy-croatia.eu/adriaclim







## KEY PROJECT NUMBERS

**PROJECT DURATION** 01/01/2020 - 31/12/2022



**TOTAL BUDGET** 8.823.415,00 €



**NATIONAL CO-FINANCING** 1.323.000,00 €



ERDF 7.499.902,75 €



#### **ADRIACLIM**

AdriaClim is a new cross-border cooperation project that supports the development of scientific plans to adapt to the consequences of current climate change and the challenges that await us, and to turn potential threats into economic opportunities. AdriaClim will develop regional and local adaptation plans based on up-to-date meteorological and oceanographic information for the Adriatic Sea.

## **PROJECT OBJECTIVES**

The goal of AdriaClim is to increase the capacity to develop new and update existing plans for adaptation to climate change in the Adriatic. Strategies to mitigate its effects on coastal and marine areas at risk will be developed. Capacities and cooperation on climate change monitoring and modeling systems will be improved, and an advanced information system, tools and indicators for optimal climate change adaptation planning will be developed.



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#### WHY ADRIACLIM?

The Adriatic coastal and marine areas are particularly vulnerable to the effects of climate change.

By 2050, according to "Piano Nazionale di Adattamento ai Cambiamenti Climatici (PNACC)" (National Climate Change Adaptation Plan) issued in 2017, the Adriatic Sea is supposed to experience major climate change:



The temperature of the Adriatic Sea is expected to increase by about + 1.5 / 1.6 ° C.



The sea level in the Adriatic Sea is expected to increase by **7cm possibly leading to coastal erosion** 



With increasing temperature and volume, the salinity of the Adriatic Sea is supposed to increase.



Fresh water **salinization** and **coastal erosion** are possible.



Adverse effects on the marine ecosystem are inevitable.



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Fresh water salinization and coast



Adverse effects on the marine ecos

#### **OUTPUTS**

In Italy and Croatia climate monitoring, modelling and adaptation are necessary to face adverse climate change effects (or impacts) and to turn potential threats into economic opportunities.

AdriaClim aims to achieve the following results:



develop accurate information able to support the development of regional and local climate change adaptation plans.



plan a coastal adjustment, for a sustainable blue economy, based on reliable and accurate information



contribute to fill the gaps in existing observing systems and will enhance and complement the existing modelling capacity by developing high resolution integrated models.



consolidate planning of measures for strengthening the adaptation capacity in Italy and in Croatia also building upon cross-border cooperation during and after project completion.



#### **APPROACH**

AdriaClim addresses the identified territorial challenges by proposing a clear and structured work plan that results in outcomes that are:



## integrated

climate risks and impacts on coastal and marine areas are included in the planning of activities



## designed

partnership with external actors



## holistic

work on improving the climate monitoring system and proposing solutions



## geographically distributed

activities are carried out in almost all Adriatic coastal regions



## tangible

development of climate adaptation plans for 9 pilot areas (6 Italian and 3 Croatian)



## available

facilitated knowledge sharing and capacity building



## long-term

creation of a Transnational Expert Management Body



## complementary

the proposed activities are fully integrated into existing systems





www.italy-croatia.eu/web/adriaclim/









https://www.arpae.it/sim/



www.facebook.com/AdriaClim-Project-Interreg-ITA-CRO-101403105233732



www.youtube.com/channel/UCz1icHMIWGzxBfJ-lda-ABQ/featured



www.twitter.com/adriaclim



