



# COACCH

CO-DESIGNING THE ASSESSMENT OF CLIMATE CHANGE COSTS



Welcome to the 5<sup>th</sup> issue of the **COACCH Newsletter!**

Get updates on the project outputs, events, publications and find a list of opportunities and interesting readings suggested to you by the COACCH scientific team!

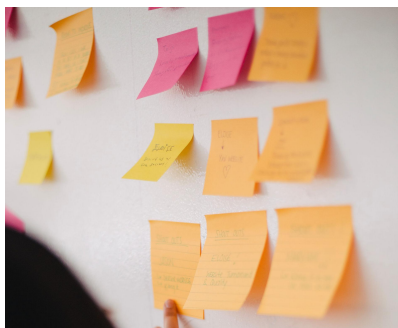
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## **ABOUT US / COACCH 3rd Stakeholders Workshop**



COACCH has concluded the direct/biophysical impact assessment of climate change impacts and is currently developing the economic and policy assessments, which will be presented to stakeholders and the research community at the next stakeholders workshop. The workshop will take place on **3-4 December**.

[Read more](#)

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## ABOUT US / COACCH at High-level Expert Workshop on Adaptation



Several members of the COACCH consortium are supporting research within the "Study on Adaptation Modeling" tender funded by DG CLIMA. The tender offers a throughout literature review on the scope and use of adaptation modelling, identifies gaps in current practices and suggests strategic actions to cover the gaps. Preliminary results from the study have been presented during the 3 day online *"High level expert workshop on climate adaptation modeling"* in early September, which gathered high level policy makers, academics and practitioners on adaptation. Hands on practical sessions on adaptation modeling enriched the workshop.

[Read more](#)

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## ABOUT US / COACCH Webinars series



The COACCH Project has created a webinar series as a dissemination tool to share its outputs to the online community. The series will include four episodes, and started in Spring 2020. The first two episodes took place respectively on April 30 and May 14. The video recordings of the webinars are available on the COACCH website and Youtube channel. The next webinar will deal with tipping points and macroeconomic assessment. More information will follow soon.

[Read more](#)

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## ABOUT US / COACCH paper featured on PreventionWeb



COACCH paper 'Comparing urban coastal flood risk in 136 cities under two alternative sea-level projections: RCP 8.5 and an expert opinion-based high-end scenario' has been featured on *PreventionWeb*, the global knowledge-sharing platform on disaster risk reduction managed by the United Nations Office for Disaster Risk Reduction (UNDRR).

[Read more](#)

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## EVENTS / COACCH took part to webinar “Accounting for COVID-19 pandemic in climate policy modelling”



COACCH took part to the webinar “Accounting for COVID-19 pandemic in climate policy modelling”, held on 17th June 2020 and organized by DG Research and Innovation and EASME. The webinar was organized for the exchange of information, encourage debate and spur cooperation between H2020 projects regarding accounting COVID-19 impacts within several climate change impact and policy assessment projects. The event was intended to exchange information, encourage debate and spur cooperation between projects as regards accounting for COVID-19 impacts. With the same objective, the H2020 Climate Mitigation Collaborative Wiki Platform has been launched earlier in September.

[Read more](#)

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## PUBLICATION / "Examining the precipitation associated with medicanes in the high-resolution ERA-5 reanalysis data"



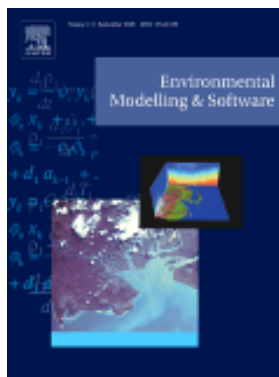
Medicanes, hurricane-like cyclonic systems in the Mediterranean Sea, are becoming an increasingly severe problem for many Mediterranean countries because climate projections suggest a higher risk under anthropogenic forcing even under an intermediate scenario. Due to the small size of these weather systems, high-resolution data are required to better resolve their structure and evolution. This paper investigates medicanes from the perspective of precipitation using the high-resolution (0.25) ERA-5 reanalysis data released by European Centre for Medium-Range Weather Forecasts.

Paper published by the International Journal of Climatology.

[Download the paper](#)


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## PUBLICATION / "CLIMRISK-RIVER: Accounting for local river flood risk in estimating the economic cost of climate change"

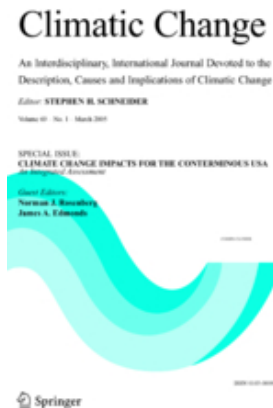


This study aims to improve the estimates of the economic impacts of climate change by developing a river flood risk model CLIMRISK-RIVER and introducing it into an existing climate-economy integrated assessment model (IAM). It operates on a local scale and can project climate change-related river flood damage for various socioeconomic, climate and flood adaptation scenarios.

Paper published by Environmental Modelling & Software (Elsevier)

[Download the paper](#)

## PUBLICATION / "Economic valuation of climate change induced mortality: Age dependent cold and heat mortality in the Netherlands"



This study examines the impacts of climate change on future mortality in the Netherlands and the related economic costs. Our methods account for changes in both cold- and heat-related mortality for different age classes, the time dynamics associated with temperature-related mortality, demographic change and the urban heat island effect. Results show that heat and cold impacts on mortality vary considerably between age classes, with older people being more vulnerable to temperature extremes.

Paper published by Climatic Change

[Download the paper](#)

## PUBLICATION / "Comparing urban coastal flood risk in 136 cities under two alternative sea-level projections: RCP 8.5 and an expert opinion-based high-end scenario"



The high degree of uncertainty associated with the extent of future sea-level rise stems primarily from the potential mass loss of the Greenland and Antarctica ice-sheets. Authors explore the impact of this uncertainty on economic damage due to sea-level rise for 136 major coastal cities.

Note: the paper has also been featured on *PreventionWeb*, the global knowledge sharing platform on disaster risk reduction managed by UNDRR. It can be found [here](#)

Paper published by Elsevier

[Download the paper](#)

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## PUBLICATION / "The Costs of Sea-Level Rise: Coastal Adaptation Investments vs Inaction in Iberian Coastal Cities, Water"



Iberian coastal cities are subject to significant risks in the next decades due to climate change-induced sea-level rise. These risks are quite uncertain depending on several factors. In this article, authors estimate potential economic damage in 62 Iberian coastal cities from 2020 to 2100 using regional relative sea-level rise data under three representative concentration pathways (RCP 8.5, RCP 4.5 and RCP 2.6).

Paper published on Water

[Download the paper](#)

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## PUBLICATION / "Heavy Daily Precipitation Events in the CMIP6 Worst-Case scenario: Projected Twenty-First-Century Changes"



The main goal of this study is to examine possible improvements in the representation of intense and extreme precipitation by a new set of climate models contributing to the phase 6 of the Coupled Model Intercomparison Project (CMIP6) effort, and to quantify its projected changes under the highest emissions scenario by the end of the current century (i.e., SSP5-8.5).

Paper published by the Journal of Climate (American Meteorologic Society)

[Download the paper](#)

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## COACCH SUGGESTS

Events, interesting reads and opportunities to advance knowledge on climate change impacts and costs selected for you by the COACCH research team.

### EVENTS

#### [SWEEEP Webinar series](#)

September-December 2020

#### [“ClimRisk2020: Time for Action! Raising the ambition of climate action in the age of global emergencies” - SISC 8th Annual Conference \(online\)](#)

21-23 October 2020

#### [Thirteenth Annual Meeting of the IAMC \(online\)](#)

1-4 December 2020

### INTERESTING READS

- *"Economic Instruments for a Low-carbon Future"* - Edward Elgar publishing, 2020 - read it [here](#)
- *"Healthy environment, healthy lives: how the environment influences health and well-being in Europe"* - Report by the EEA, 2020 - read it [here](#)

Would you like to suggest a content for our newsletter? Contact us at [info@coacch.eu](mailto:info@coacch.eu)!

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