



VI Cross border conference
on climate and coastal change



Wednesday, 23th october

8:00h – 9:00h / Reception and welcome breakfast

9:00 Official opening

9:30 Opening: Julien Mader, Marine Technology Director at AZTI and head of Uhinak's scientific committee

9:40 Opening keynote lecture

Warning of a forthcoming collapse of the atlantic meridional overturning circulation

Peter Ditlevsen, Professor, University of Copenhagen

SESSION 1: PLANETARY TIPPING POINTS

Guest speaker

10:15 Marine heat waves in the southern Bay of Biscay and atmosphere-ocean energy fluxes.

Jon Saenz, University of the Basque Country (UPV/EHU).

Oral communications

10:40 Future evolution of deoxygenation and water temperature under climate forcings in shallow coastal areas: the case of Mediterranean lagoons.

Louison Huchet, Laboratoire Chrome – University of Nimes.

10:50 Seasonal, interannual and long-term variability of sea surface temperature in the NW Iberian upwelling, 1982-2020.

Silvia Piedracoba, CETMAR.

11:00 Natural and anthropic evolution of the marshes in the Oka estuary (Urdaibai Biosphere Reserve): their importance in sea level change studies.

Ane García Artola, University of the Basque Country (UPV/EHU).

11:10 - 11:50 *Networking café - Poster session and visit the exhibition area*

11:50 Effect of water temperature on growth rates of early life stages of European anchovy (*Engraulis encrasicolus*).
Elorri Arévalo, AZTI.

12:00 Sensitivity of fishing fleets to climate change: Port exit capacity for southern Bay of Biscay vessels.
Claire Kermorant, University of Pau and Pays de l'Adour.

12:10 Coastal Acidification in the Canary Islands.
David González, IOCAG – ULP GC.

12:20 *Colloquium*

SESSION 2: EXTREME EVENTS AND ADAPTATION MEASURES

Guest speaker

12:50 Monitoring program of saltmarsh restoration actions in the Basque cCoast.
Roland Garnier, AZTI.

Oral communications

13:15 Risk assessment and flexible adaptation strategies against coastal flooding due to climate change in Macaronesia coastal urban areas. Application to Garachico (Tenerife). LIFE GARACHICO Project.
María Fuentes, IH Cantabria.

13:25 Methodological application of climate change adaptation in coastal projects - case study on the South Coast of Murcia.
Miriam García Oliva, CEDEX-CEPYC.

13:35 Coastal climate change risk perceptions and adaptation preferences: the case of Dakar.
Andrea Briones, Basque Centre for Climate Change and Real Instituto Elcano.

13:45 - 14:05 Colloquium

14:05 Networking lunch

15:15 System mapping, a methodology to address the complexities of coastal pathogen infection risks related to the impacts of climate change, pollution and social inequalities.
Estibaliz Baroja, Basque Centre for Climate Change.

15:25 Assessing the impact of extreme weather events on bird mortality.
Maite Louzao, AZTI.

15:35 Monitoring the morphological response of the beaches in the Bilbao port area: applications of a predictive model.
Manuel Viñes, Universitat Politècnica de Catalunya.

15:45 Ports and climate change: A multi-scale adaptation approach.
Javier López Lara, IH Cantabria.

15:55 Charting a Course: The Role of Observatorio Costeiro Xunta de Galicia in the Galician society's needs.
Garbiñe Ayensa, Intecmar.

16:05 Enhancing Coastal Resilience: Cross-Border Collaboration and Innovation in the Regions4Climate Project.
Igone García Pérez, Tecnalia.

16:15 TRANSCLIMA: unprecedented dangers in coastal areas
Itxaso Odériz, IH Cantabria.

16:25 - 16:55 Colloquium

16:55 End of the first working day

Thursday, 24th october

8:30h – 9:00h / Reception and welcome coffee

9:00 Opening keynote lecture - Day two

Adaptive capacity and resilience of European Seas under contrasting Climate Change trajectories and multiple management interventions

Marta Coll Montón, Senior researcher. Instituto de Ciencias del Mar (ICM) - CSIC; Barcelona

Guest speaker

9:35 Development of decision-support tools for the management of ocean storm impacts along the coast of Saint-Jean-de-Luz, SW France.
Matthias Delpey, Rivages Pro Tech, SUEZ Eau France.

Oral communications

10:00 Extreme waves from compact High Frequency radars in the southeastern Bay of Biscay: measurement performance under different conditions.
Lohitzune Solabarrieta, AZTI.

10:10 Big surf at the Basque coast - numerical analysis of wave processes at Belharra.
Diego Slamovitz, University of Pau and Pays de l'Adour.

10:20 Numerical modelling of impact forces caused by wave overtopping : realistic application on a very shallow foreshore configuration.
Erwan Imbertie, Suez, Center Rivages Pro Tech.

10:30 Impact forces of water surges on coastal flooding defense systems.

Mohamed Rozki, University of Pau and Pays de l'Adour.

10:40 Characterisation of extreme wave events in a context of climate change: Applications to coastal flood modelling.

David Lucio, IH Cantabria.

10:50 - 11:10 *Colloquium*

11:10 - 11:50 *Networking café - Poster session and visit the exhibition area*

SESSION 3: COASTAL AND OCEAN CLIMATE CHANGE MITIGATION

Guest speaker

11:50 Life Blue Natura. Blue carbon in Andalusia. Tools for climate change mitigation.

Soledad Vivas Navarro, Coordinadora técnica de Medio Marino. Agencia de Medio Ambiente y Agua. Regional Government of Andalusia.

Oral communications

12:15 Future scenarios of marine resources and ecosystem conditions in the Bay of Biscay under the impact of climate change and multiple management interventions.

Xabier Corrales, AZTI.

12:25 Low-trophic aquaculture effectiveness as Nature-based Solutions: sustainable aquaculture practices for marine conservation.

Leire Arantzamendi, AZTI.

12:35 GHG emission maps of maritime transport in ports as a decision-making tool.

Victoria Ferreira, MC Valnera S.L.

12:45 Assessing the influence of seagrasses and salt marshes on blue carbon stock in sediments.

Remy Moreau, Surfrider Foundation.

12:55 CAPTA Project: Climate neutrality: role of blue carbon on the coast of Portugal and Galicia.

Silvia Piedracoba, CETMAR.

13:05 Assessment of blue carbon sequestration in Basque estuaries: a tool for regional climate action integration in the coast.

Ainhize Butron, Ihobe.

13:15 Assessing future wave climate in the Ebro Delta using SWAN Nested Modelling and CMIP6 Wind Projections.

Marc Mestres, Universitat Politècnica de Catalunya.

13:25 - 13:50 *Colloquium*

13:50 - 14:50 *Networking lunch*

SESSION 4: GOVERNANCE, MANAGEMENT TOOLS AND COMMUNICATION

Guest speaker

14:50 A guide for risk assessment and adaptation to climate change in the coastline.

Iñigo Losada Rodríguez, Research Director, IHCantabria.

Oral communications

15:15 The role of intersectionality in vulnerability assessment of climate change-related health impacts such as infectious diseases.

Iraitz Jauregui, Basque Centre for Climate Change.

15:25 The serious game as a link between consultation and operational adaptation strategy: the case of TACC'tic.

Loick Le Roy y Thomas Beillouin, Artelia.

15:35 The early warning system for maritime-coastal risk in Euskalmet.

Santiago Gaztelumendi, Euskalmet.

15:45 Analysis of governance for the coastal environment in the Canary Islands.

Aridane González, Instituto de Oceanografía y Cambio Global (IOCAG).

15:55 Ostreobila: a cross-border research program on Ostreopsis algae.

Aurelie Bocquet Escourrou, GIS Littoral Basque.

16:05 Do we know enough about climate change? Knowledge, concerns and climatic habits.

María Calvo, AZTI.

16:15 - 16:55 *Colloquium*

Guest speaker

16:55 Coastal governance in the metaverse. Challenges for communication, participation and conservation.

María Josep Picó, Professor of journalism, University of Valencia.

17:20 - 17:30 *Closure*

17:30 *End of day two*

POSTERS

- Half century at-sea monitoring on top predators in the Bay of Biscay: changes in relative abundances and impacts of oceano-climatic changes. *Emilie Milon, Centre de la Mer.*
- Multidisciplinary Study of Coastal Chemistry and Its Implications for Blue Carbon. *Aridane González, Instituto de Oceanografía y Cambio Global (IOCG).*
- Sea level on the Basque coast: characterisation and case studies. *Santiago Gaztelumendi, Euskalmet.*
- Progress in the prediction of waste and overtopping in Euskalmet. *Antonio Castaño, Euskalmet.*
- Implementation of a tool for tracking drifting objects and substances: EuskalDrift. *Antonio Castaño, Euskalmet.*
- Characterisation of sea storms affecting the beaches of the city of Barcelona. *Jordi Mateo, Meteorological Service of Catalonia.*
- Is Extreme wave run-up on steep rock shores. *Volker Roeber, University of Pau and Pays de l'Adour.*
- Comparison of flooding strategies in estuaries: The case of Txingudi (Basque coast). *Laure Sicard, AZTI and University of the Basque Country (UPV/EHU).*
- The importance of the valorisation and circular economy of MARPOL wastes facing the challenge of the fight against pollution. *Sara Calvo, MC Valnera S.L.*
- Design of the green infrastructure from a socio-ecological systems approach. *Mikel Alberdi, University of the Basque Country (UPV/EHU).*
- The impact of the discharges from Wastewater Treatment Plants on coastal ecosystems in a context of global change. *Marta Revilla, AZTI.*
- 20 years researching the coast of Jaizkibel-Ulía. *Sara Lizarza, Mater.*
- SEABIN PASAIA. Ongoing investigation of marine litter in Pasaia Bay. *Sara Lizarza, Mater.*
- Assessment of the ecosystem services provided by coastal recreational areas in Biscay. *Lorena Peña, University of the Basque Country (UPV/EHU).*
- Criteria for action Portuguese caravels public health summer 2023 in the Basque Country. *Iván García, Basque Government Department of Health.*
- Fitting the pieces together: How do spatial management scenarios impact on Basque fisheries revenues? *Xabier Larrinaga, AZTI.*
- The key role of marine citizen science in early detection and monitoring of changes in marine biodiversity: the case of REDPROMAR in the Canary Islands. *Marc Martín, Gestión y Planeamiento Territorial y Medioambiental S.A.*

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