



Mediterranean Experts on
Climate and environmental Change

*MED-CORDEX regional climate modelling in
the 2nd MedECC Mediterranean
Assessment Report (MAR2)*

Philippe DROBINSKI



Mediterranean
Action Plan
Barcelona
Convention



Union for the Mediterranean
Union pour la Méditerranée
الاتحاد من أجل المتوسط

With financial support from



A unique science-policy interface on climate and environmental change in the Mediterranean



Our mission:

**WE PRODUCE SCIENTIFICALLY
ROBUST ASSESSMENT**

of the risks associated
with climate and environmental
change.

**WE ACT AS A REGIONAL
SCIENCE-POLICY INTERFACE**

by presenting and making our work
accessible to all and especially policymakers.

*Contribute to the improvement of policies to assure the well-being of
current and future generations in the region.*

2015-2025: 10 years of MedECC!

2015
2020

Creation and early stages of MedECC

MedECC was launched as a volunteer initiative, in the context of the UNFCCC COP 21, to address the need of a science-policy interface, the Mediterranean region being a hotspot of climate change with imminent threats to the ecosystems and its inhabitants.



- 2015 Creation of MedECC
- 2016 Establishment of the MedECC Steering Committee
- 2018 Establishment of the Scientific Secretariat through a UfM/Plan Bleu partnership

2015-2025: 10 years of MedECC!

2020
2024

The First Mediterranean Assessment Report (MAR1)

MAR1 is the first report to gather all available scientific knowledge on climate and environmental change in the Mediterranean basin, assessing the current situation and the risks for the future.

- 190 authors from 25 countries
- 3 800 publications assessed



- 2020 Launch of the MAR1 and its Summary for Policymakers (SPM) (available in 9 languages), awarded the 2020 North-South Prize of the Council of Europe
- 2021 Endorsement of the SPM at COP 22 (Antalya) and Recognition in the 2nd UfM Ministerial Declaration (Cairo)
- 2022 Contribution to the IPCC's AR6 in a cross-chapter paper dedicated to the Mediterranean

2015-2025: 10 years of MedECC!

2024
2028

Three Specials Reports and the first steps of the MAR2

Building on the MAR1 report, we explored key topics in three special reports.

- > 150 authors from 15 countries
- Endorsement of the SPM of the report on coastal risks at COP 23 Barcelona Convention (Slovenia)

In 2025, the preparation of the MAR2 begins.



2024 Launch of two Special Report: Climate Change and WEFE Nexus in the Mediterranean Basin and Climate and Environmental Coastal Risks in the Mediterranean

2025 • Launch of a Special Report on Environmental Change, Conflicts and Human Migration
• First steps of the MAR2: Call for experts, scoping meeting, authors selection

We are:

Governance & organization

COORDINATORS

Salpie Djoundourian,
Joël Guiot, Piero Lionello



STEERING COMMITTEE

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Sustainable Development
of Catalonia)



Second Mediterranean Assessment Report (MAR2)

REPORT COORDINATORS



Mohamed Abdrabo (Egypt): Alexandria Research Center for Adaptation to Climate Change (ARCA), Alexandria University
Expert in environmental and climate change economics and socioeconomics



Philippe Drobinski (France): Laboratoire de Météorologie Dynamique - IPSL & Energy4Climate (E4C)
Expert in Mediterranean climate change, water cycle and energy transition



Marta Guadalupe Rivera Ferre (Spain): INGENIO (CSIC-UPV), Spanish National Research Council-Polytechnic University of Valencia
Expert in food systems from socio-ecological complex perspective

Structure of the report

- MAR1: 630 pages, 190 authors from 25 countries, 3800 publications assessed
- Chapter and cross-chapter boxes
- Executive summary at the beginning of each chapter
- Key messages drafted at the same time as the chapters' contents
- Summary for policymakers (SPM)

MAR2 is not the update of MAR1!

- Focus on new and recent knowledge
- Innovative methods of knowledge delivery to explore to differentiate MAR2 from previous reports
- More integration of social perspective



Chapter 1. Framing the Mediterranean climate challenge **(50 pages including references)**

Mohamed Abdel Monem (Atomic Energy Authority/ FAO, Egypt), M

Manfred A. Lange (The Cyprus Institute, Cyprus), M

Anna Pirani (Euro-Mediterranean Center on Climate Change (CMCC), Italy), F

Chapter 2. Drivers of change : climate, environment and socio-economics **(100 pages)**

Murat Belivermiş (Istanbul University, İstanbul, Türkiye), M

Silvio Gualdi (Euro-Mediterranean Center on Climate Change (CMCC), Italy), M

Stefanos Nastis (Aristotle University of Thessaloniki, Greece), M

Chapter 3. Impacts and risks: human and natural systems **(150 pages)**

Margarita Garcia-Vila (Institute for Sustainable Agriculture, CSIC, Spain), F

Chapter 4. Adaptation options and enablers **(150 pages)**

Tristan Berchoux (Mediterranean Agronomic Institute of Montpellier (CIHEAM Montpellier), France), M

Marta Debolini (Euro-Mediterranean Center on Climate Change (CMCC), Italy), F

Chapter 5: Mitigation and decarbonization (100 pages)

Adel Ben Youssef (University Côte d'Azur (France) / Economic Research Forum (Egypt)), M

Emanuela Menichetti (OMEC, France), F

Chapter 6. Policies, governance, economic instruments and financing transitions (100 pages)

Assem Abu Hatab (The Nordic Africa Institute, Sweden / Swedish University of Agricultural Sciences, Sweden / Arish University in Egypt), M

Carlo Giupponi (Ca' Foscari University Venice, Italy), M

Chapter 7. Societal transformation for a sustainable future (50 pages)

Mohamed Behnassi (Economic Social and Environmental Council (CESE), Morocco), M

Elisa Furlan (Euro-Mediterranean Center on Climate Change (CMCC), Italy), F

Feliu López-i-Gelats (University of Vic-Central, University of Catalonia, Spain), M

Each chapter: title, authors list, executive summary, chapter's body (including tables, chapter boxes), references

Chapters' tables of contents: to the level 4

Categories of authors

REPORT COORDINATORS: responsibility for overseeing the preparation of the report, including its Summary for Policymakers (SPM) and ensuring that the report is completed to the highest scientific standard and addresses the key scoping questions.

COORDINATING LEAD AUTHORS (CLAs):

- responsibility for coordinating chapters of the report.
- coordinate the work of the LAs and CAs involved in their chapter,
- ensure that any cross-cutting issues across chapter are addressed in a complete and coherent manner,
- coordinate the drafting of the executive summary, of the key messages of their chapter in the SPM.

LEAD AUTHORS (LAs):

- responsibility for producing designated sections of chapters based on the best information available.
- the essence of the LAs' role is to synthesise material drawn from the available literature.
- LAs can identify CAs who can provide additional technical information or graphics on specific subjects covered in the chapter.
- LAs are also required to take account of expert and government review comments when revising text.

⊗ Not many applications from the MED-CORDEX community

Categories of authors

😊 Still time to contribute... and we need you !!!
contact@medecc.org

CONTRIBUTING AUTHORS (CAs):

- prepare technical information in the form of text, graphs or data for inclusion by LAs in the relevant sections or part of a chapter.
- responsible only for contributing to a specific part of the chapter and do not work on the whole chapter.
- not formally nominated by the MedECC Steering Committee (SC)

Database of potential Contributing Authors !

EXPERT REVIEWERS (ERs):

- carry out the external review of the First and Second Order Drafts of the assessment report and the SPM.
- have to register as an ER in order to be able to comment on the accuracy, completeness and the overall balance of the scientific, technical and socio-economic content of the drafts.
- the aim of an external review is to provide authors with constructive feedback that will help in preparing an assessment of the highest quality.

MAR2 DRAFTS

Zero Order Draft (ZOD): initial version of the report. It includes the structure, outline (definitive down to “third level”), and initial content of the report. **It should have at least 50% or 70%) of completed text.** Graphics, tables and case studies are not all agreed but text may include indication of a graphic that might be included. The ZOD undergoes extensive review and revision by authors and reviewers before progressing to subsequent drafts.

First Order Draft (FOD): the first complete draft of the report. It incorporates feedback and comments from expert reviewers on the ZOD. This draft undergoes a peer review, to ensure accuracy and comprehensiveness.

Second Order Draft (SOD): the second complete draft of the report. It integrates feedback from both expert reviewers and governments. This draft typically includes more refined data, analysis, and conclusions compared to the FOD.

Final Draft: the last version of the report before. It incorporates all final revisions, edits, and updates based on the SOD and review and consultation comments and all Annexes . It is accompanied with the Final Summary for Policymakers (SPM) and all information from the SPM maybe traced back to the full report. The Final Draft becomes the official version of the assessment report.

MAR2 PREPARATION CALENDAR

Activity and Main Tasks	YEAR FOUR 2028											
	Q1			Y4 Q2			Y4 Q3			Y4 Q4		
	1	2	3	4	5	6	7	8	9	10	11	12
Publication of Final SPM And Final Report												
Edition (proofreading, layout)												
Translation of the SPM in the selected number of Mediterranean languages and their layout												
Preparation of outreach activities and products												
Communication campaign, including the organisation of a large workshop with the Mediterranean stakeholder												
Publication												
UNFCC COP 33 (date tbc)												

Our supporting institutions:



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