



Mediterranean Experts on Climate and environmental
Change

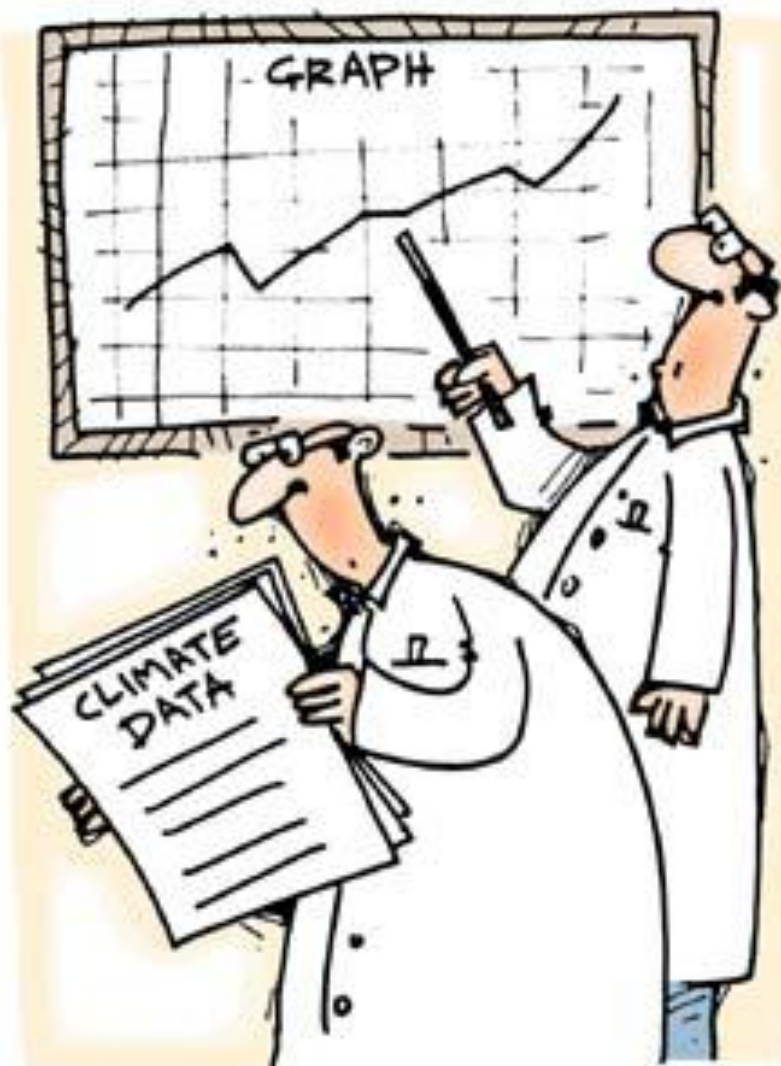
MedECC: Mediterranean Experts on Climate and Environmental Change

Towards an improved scientific
assessment of climate change and its
impacts in the Mediterranean Basin

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With the participation of Gen. Cat. (A. Queralt Assau), Plan Bleu (J. Le Tellier, A. Lafitte, H. Ravenel), AcTerra (S. Simonet), CMI World Bank (H. Levitte), IRD (B. Martimort-Asso, G. Chehbouni)

ASSESSING THE IMPACT OF CLIMATE CHANGE ...



THE SCIENTISTS

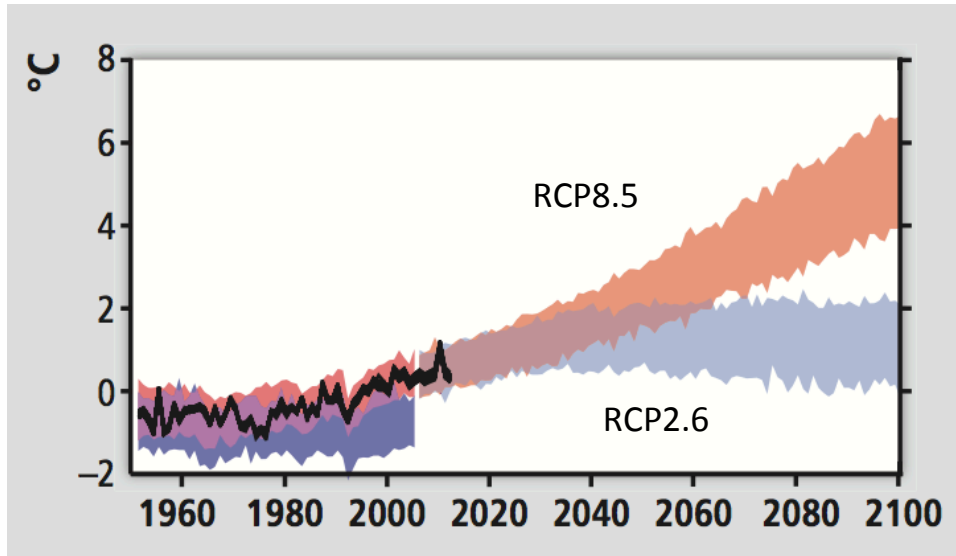


THE POLITICIANS

Why a specific assessment for the Mediterranean Basin?

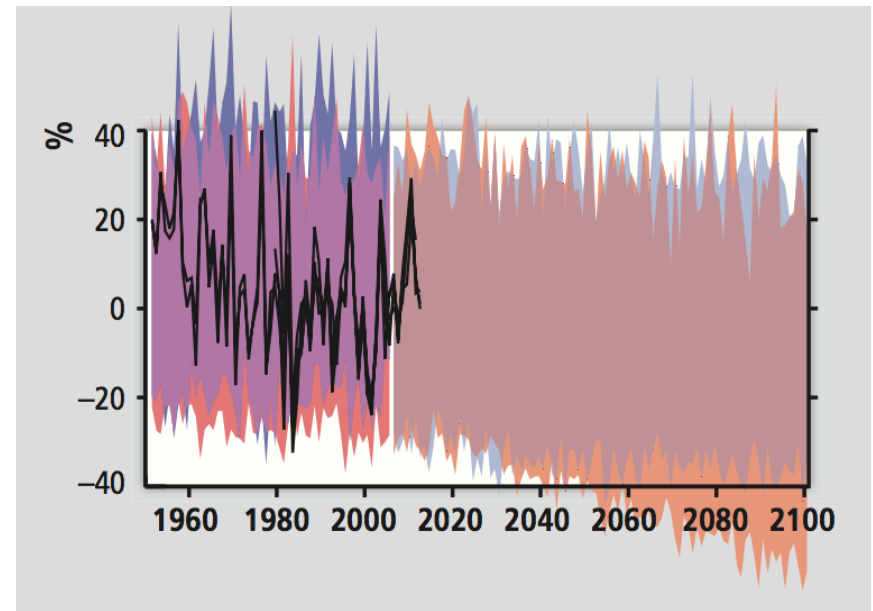
- Common semi-closed sea
- Common history
- Similar environmental problems related to dense human population, mainly on the coast, ecosystem degradation, and strong climate variability
- In the IPCC, the Mediterranean region is usually considered together with Europe or distributed between Europe, North Africa and Asia

Climate change in the Arab Maghreb Union



Annual land temperature

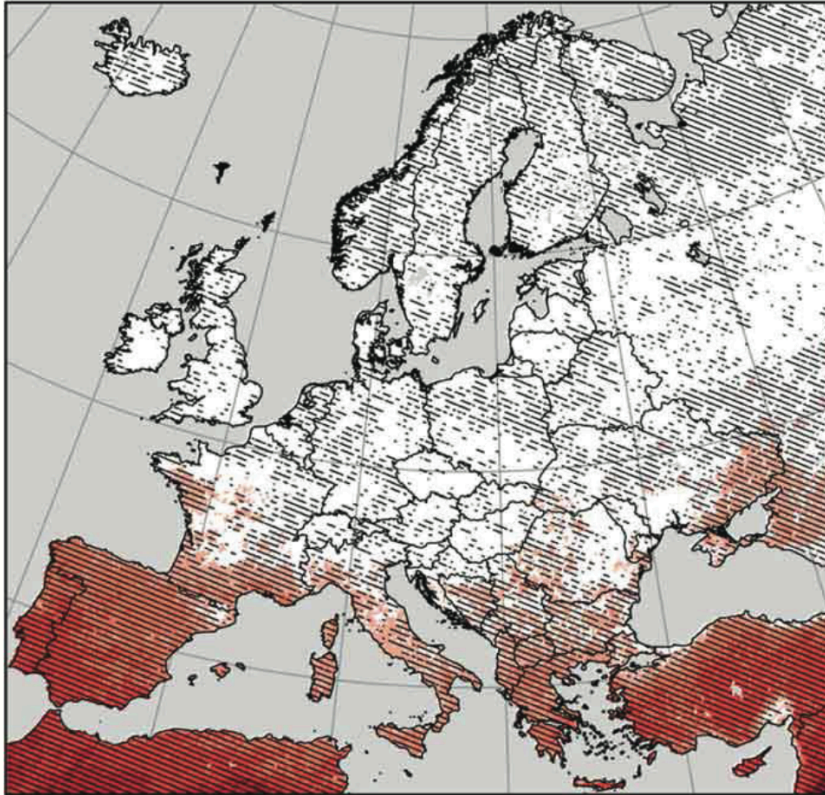
Annual land precipitation



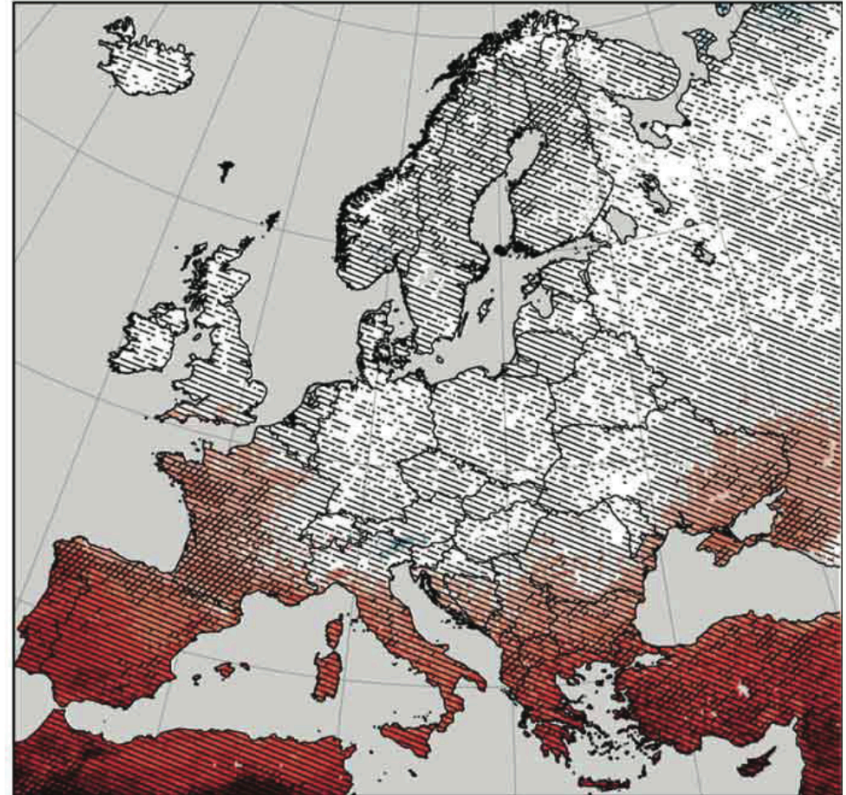
The vulnerability of the Mediterranean Basin

(d) Changes in the 95th percentile of the length of dry spells (days) 2071–2100 compared to 1971–2000

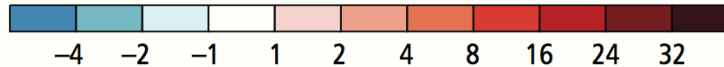
RCP4.5



RCP8.5

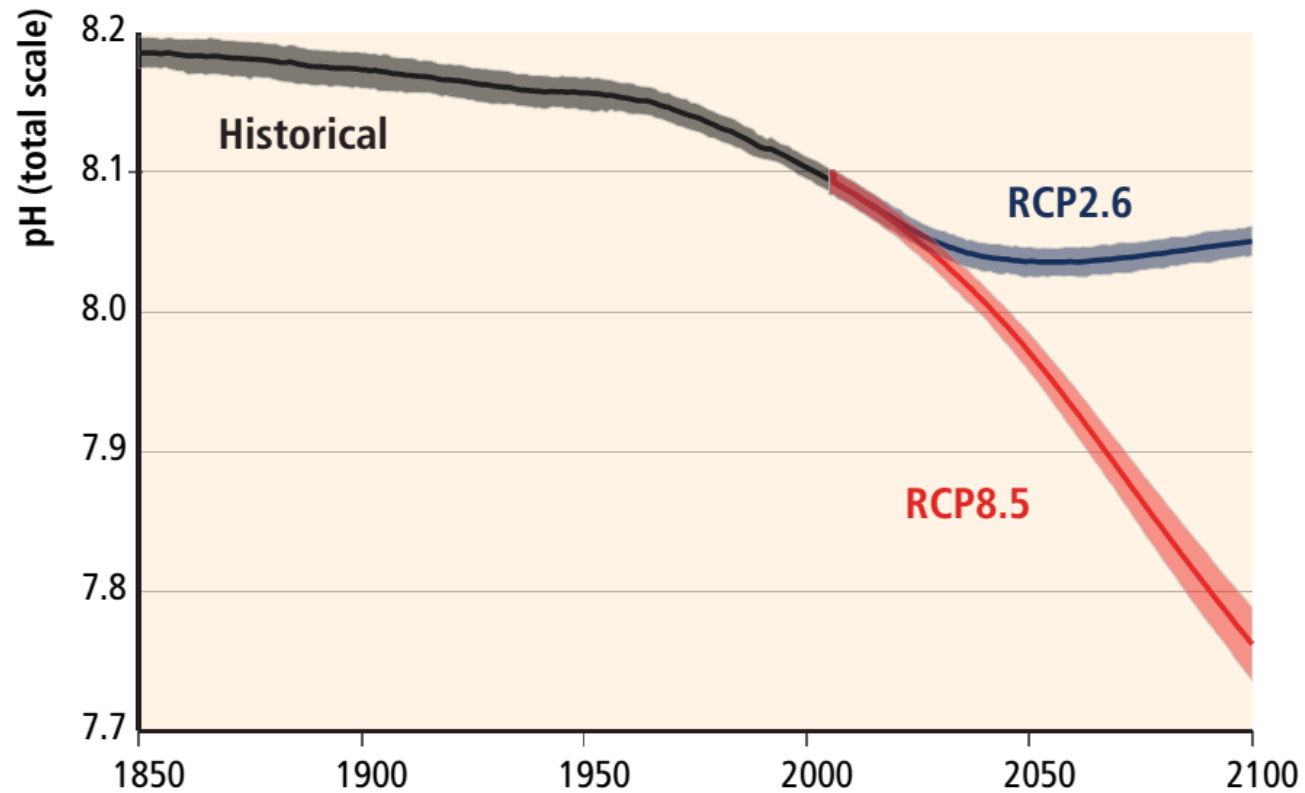


Changes in the 95th percentile of the length of dry spells in days

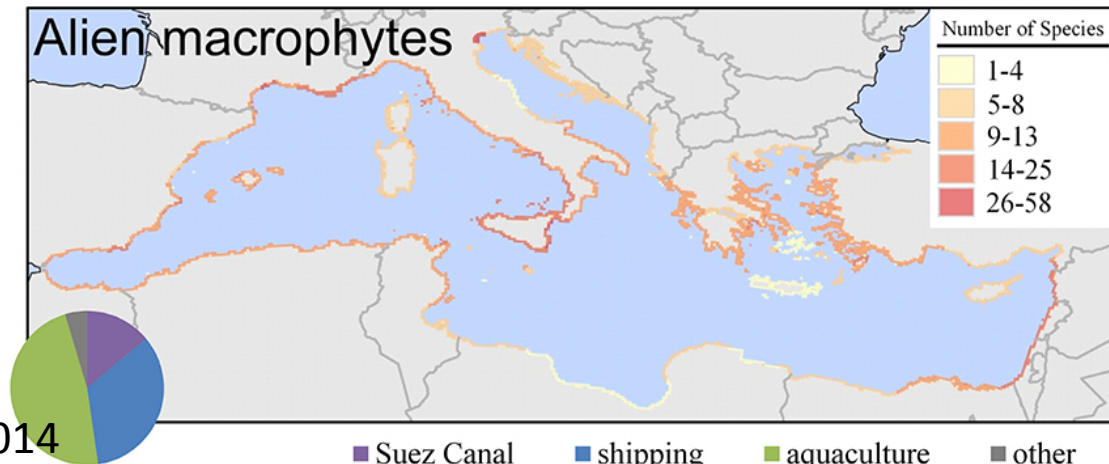


//// Significant change
\\\\ Robust change

Ocean acidification



Alien organisms in the Mediterranean Sea



Multiple drivers of environmental change

- Atmospheric change
 - temperature
 - rainfall
 - extreme events (storms, floods etc.)
- Ocean change
 - warming
 - acidification
 - sea-level rise
- Biodiversity change (invasive species)
- Pollutants
- Land use change (urbanization)

but also management for adaptation and mitigation:

- conservation, agricultural, forest and fisheries management

MedECC

- initiative by scientists around the Mediterranean
- aims for an open and transparent assessment process
- multi-disciplinary
- engages actively with policy makers

MedECC Aims

1. Engage the scientific community working on environmental change and its impacts in the whole Mediterranean basin.
2. Update and consolidate the best scientific knowledge about climate and environmental change in the Mediterranean basin and render it accessible to policy-makers, key stakeholders and citizens.
3. Contribute to future IPCC, IPBES or related assessments in the Mediterranean basin.
4. Help improve policies at national, regional, and local level by providing consolidated scientific assessments on particular issues and by responding to requests by decision-makers.
5. Identify gaps in the current research on climate change and its impacts in the Mediterranean and interact with funding agencies for the development of new research programs to fill these gaps.

MedECC products

1. Regular and comprehensive “state of the art” reports about climate and environmental change for the entire Mediterranean basin, including summaries for decision-makers for approval by government representatives.
2. Specific reports on demand by decision-makers on specific issues, sectors or scientific domains.
3. Scientific workshops, co-hosted by MedECC and research institutions or MedECC supporting institutions.
4. Training events for decision makers, professionals and other stakeholders involved in environmental change mitigation and adaptation.
5. A dialogue platform between the scientific community, decision makers and stakeholders on specific issues of environmental change in the Mediterranean basin (science-policy interface).

MedECC Resources

- Ad hoc Steering Committee (Chehbouni, Cramer, Gattuso, Guiot, Lange, Lionello, Valentini, Xoplaki)
- Fast-growing community of interested experts from Algeria, Cyprus, Egypt, France, Greece, Israel, Italy, Lebanon, Monaco, Morocco, Portugal, Spain, Tunisia, Turkey + Austria, USA, Germany etc
- Institutional support indicated from Plan Bleu, World Bank CMI, PACA, Gov't Catalonia, IRD, Labex OT-Med...

Building a network

- Side event at “Our Common Future Under Climate Change”, Paris, July 2015
- 1-2 Oct 2015: UfM-CCEG meeting, Barcelona
- E-mailing outreach to colleagues (still ongoing)
- 22 Oct 2015: MISTRALS conference
- 26 November 2015: Ad hoc Steering Committee meeting
- 4/5 Dec 2015: Side events at COP21

Planned:

- Spring 2016: meeting of an extended group of experts for implementation
- Finding financial support!
- During 2016, launch event, possibly at MEDCOP22 in Tangier, May 2016

