Climate and Health Global and Mediterranean Issues

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and environmental Change

MedECC goals and evolution

The MedECC ambition is to develop

- a scientifically robust assessment of environmental change and its impacts in the Mediterranean Basin, <u>based on published research</u> (mainly in peer-reviewed journals)
- a regional science-policy interface on climate and environmental change in the Mediterranean, <u>approved by policy-makers</u>

More than 600 scientists from 35 countries in MedECC have so far joined the network



1st Mediterranean Assessment Report (MAR1)

- Assessment Report (~500 p)
- Summary for Policy-Makers (SPM) (~20 p)
- Collective effort and voluntary contributions
- Transparent expert and stakeholders / policy review



85 scientists from 20 countries38% authors from southern and eastern Med.44% Coordinating Lead Authors are women

Urban warming in the Eastern Mediterranean

For most of the large cities in the MENA Region ⇔ coldest summer month in the future will be warmer than today's hottest month

Recent and end-of-century temperature anomalies. Model calculated frequency histograms (%) of **summer (JJA) daytime maximum temperature** (TX) anomalies relative to the period 1961-1990, based on the A1B scenario. Blue is for the period 1961-1990 (hence cantered around 0°C) and red for the period 2070-2099











Invasion of tiger mosquitos Aedes albopictus in Europe



[ECDC (European Center for disease prevention and control]

http://www.medecc.org/



(Oct 2015)

IPCC Report on 1.5° C

- focus on the difference between two optimistic, "Paris-compliant" scenarios (1.5° C and 2° C)
- important health impacts in both cases, but also large differences 1.5/2.0: direct temperature effects (at home and at work), ozone, vector-based disease (malaria, dengue, Lyme etc)



Greenhouse gas emissions by economic sectors





What to do?

- Transition across ALL sectors of society in order to reduce carbon neutrality by 2050 – every step counts
- Exploit all co-benefits between public health and climate change policy
- Raise awareness

Thank you very much for your attention for your