

Workshop
Impacts
of Mediterranean Climate Change
on Human Health

Energy, Environment and Water Research Center
The Cyprus Institute
Paphos, Cyprus
19-21 October 2009



**THE CYPRUS
INSTITUTE**



Programme

Monday, 19 October 2009

08:30 Registration

09:00 Welcome from the local organizer
Elena Xoplaki

09:10 Welcome and opening remarks to the workshop
Shlomit Paz and Alexander Gershunov

09:20 Introductory words on behalf of the Ministry of Health
Stella Canna Michaelidou

09:30 Introductory words from MedCLIVAR
Ricardo García-Herrera

09:40 Coffee break

Mediterranean climate change: extremes and dynamics

Chair: Shlomit Paz

- 10:10 **Christoph Raible** (University of Bern)
The Mediterranean - a key region of climate change: extremes and underlying dynamics
- 10:35 **Elena Xoplaki** (The Cyprus Institute & University of Bern)
Climate extremes in the Eastern Mediterranean
- 11:00 **Baruch Ziv** (The Open University of Israel)
Expectations for aggravation of heat-stress in the Mediterranean under global warming
- 11:25 **Alexander Gershunov** (University of California San Diego)
Heat waves - observations and projections
- 11:50 **Hervé Douville** (CNRM-GAME/GMGEC)
Uncertainties in projecting climate change over the Mediterranean: what did we learn from the CMIP3 simulations?
- 12:30 Lunch

Impact modeling: analysis approaches

Chair: Elena Xoplaki

- 13:30 **Andrew P. Morse** (University of Liverpool)
Integrating health impacts models in climate prediction systems along the path to being seamless
- 13:55 **Christos Giannakopoulos** (National Observatory of Athens)
An impact model for heat stress and mortality construction, validation and projections under future climate change: an application for the city of Athens
- 14:20 **Boris Portnov** (University of Haifa)
Using Geographic Information Systems (GIS) technology for disease analysis and mapping

14:45 **Anna K. Panorska** (University of Nevada Reno)

*Stochastic models for weather extremes:
heat waves, cold spells, floods*

15:10 Coffee break

Climate Change and Disease Hazards

Chair: Jan Semenza

15:40 **Panos Hadjinicolaou** (The Cyprus Institute)

*Total ozone and UV changes: long-term trends,
climate change links and health implications*

16:05 **Shlomit Paz** (University of Haifa)

*Climate change impact on infectious diseases –
case studies from Israel*

16:30 **Stella Canna Michaelidou**

(Cyprus National Committee on Environment and Children's Health)

*The impact of climate change on children's health:
the challenge to protect them*

16:55 **Helene G. Margolis** (University of California Davis)

*Climate change and chronic disease morbidity:
a conceptual framework for assessment and solutions*

Invited talk

17:30 **Anastasios A. Tsonis** (University of Wisconsin-Milwaukee)

*The impact of ENSO on the social and cultural changes
in the eastern Mediterranean: A lesson from history*

18:00 **Free time**

Tuesday, 20 October 2009

Invited talks

- 09:00 **Jan C. Semenza** (European Centre for Disease Prevention and Control)
The ECDC response to the climate change challenge
- 09:30 **James Creswick** (World Health Organization Regional Office for Europe)
WHO action on climate change and health in Europe: research direction and technical developments
- 10:00 **Xavier Rodo** (Institut Català de Ciències del Clima, IC3)
Combining semimechanistic approaches for disease models with climate information: prospects, limitations and the Mediterranean as an ideal case study
- 10:30 Coffee break

Extreme temperature impacts on human mortality

Chair: Marina Astitha

- 11:00 **Klea Katsouyianni** (University of Athens)
Effects of high & low temperature and heat-waves on mortality in the Mediterranean region
- 11:25 **Ricardo García Herrera** (Complutense University of Madrid)
Impacts of extreme temperatures in Iberian mortality
- 11:50 **Chava Peretz** (Tel Aviv University)
Temperature and mortality in Tel Aviv, Israel: a time series approach
- 12:15 **Day summary and discussion**
- 13:15 Lunch
- 14:30 Excursion
- 19:30 Dinner

Wednesday, 21 October 2009

Drought and pollution impacts (heat-compounded)

Chair: Alexander Gershunov

09:00 **Manfred A. Lange** (The Cyprus Institute)

*The impacts of climate change on water availability
on Cyprus and the eastern Mediterranean*

09:30 **Abdul-Latif M. Khalid** (Palestinian Hydrology Group)

Drought preparedness and mitigation program in Al-Fara'a area

09:55 **Marina Astitha** (The Cyprus Institute)

Air quality in the Mediterranean region

10:20 **Hadas Saaroni** (Tel Aviv University)

*NOx pollution in the metropolitan area of Tel Aviv, Israel -
The role of the synoptic systems against mesoscale circulations*

10:45 Coffee break

11:15 **Day summary and discussion**

11:45 Climate change impacts on human health – European research

Anna Maria Christophorou (Cyprus Research Promotion Foundation)

12:00 **Roundtable**

13:00 Lunch

14:30 **Brainstorming**

15:30 Coffee break

16:00 **Concluding remarks and future collaborations**