

MedCLIVAR 2014 Conference

Understanding Climate Evolution and Effects on Environment and Societies in the Old World region

Cultural and Congress Center, Middle East Technical University (METU)
Ankara, Turkey, 23-25 June 2014













PROGRAMME

Monday, 23 Jun

08:00-09:00 Registration

09:00-09:15 *Opening* – METU Rector, Emin Özsoy, Piero Lionello

SESSION 1 - PALEOCLIMATE AND THE HUMAN DIMENSION

09:15-10:45

Session 1 (Chair: Giovanni Zanchetta)

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09:15-09:45	Andrey Tchepalyga - The Holocene Black Sea level oscillations: connections with the	
	Mediterranean Sea and ancient societies (Invited talk)	
09:45-10:00	Eleonora Regattieri, Giovanni Zanchetta, Russell Neil Drysdale, Biagio Giaccio, Ilaria	
	Isola, John C Hellstrom, Sebastien Nomade, Chiara Boschi - MIS5 hydrological varibility	
	from D18O composition of speleothms and lakes carbonates from Apennine sites (Italy)	
10:00-10:15	Sena Akçer-Ön, Kadir Eriş, Tuğce Nagihan Arslan, Zeki Bora Ön, Dursun Acar - Late	
	Pleistocene-Holocene climate variability from Lale Hazar (SE Turkey) sedimentary	
	records	
10:15- 10:30	Elena Ivanova, Maria Zenina, Fabienne Marret, Ivar Murdmaa, Andrey Tchepalyga,	
	Lee Bradley, Maria Zyryanova - The Early Holocene Black Sea reconnection with the	
	Mediterranean: implications for biotic and ecological changes on the northeastern shelf	

10:30-11:00 **Short coffee break**

11:00-12:30

Session	1	(Chair:	Elena	Ivanova)	
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Session i (Chair. Liena Ivanova)			
11:00-11:15	Zeki Bora Ön, Mehmet Sinan Özeren, Mehmet Namık Çağatay, Kürşad Kadir Eriş -		
	Late Pleistocene-Holocene climatic cycles from eastern Turkey: Lake Van and Lake		
	Hazar sediment records		
11:15- 11:30	Ana Perez-Sanz, Penélope González-Sampériz, Blas Valero-Garcés, Ana Moreno,		
	Mario Morellón, Graciela Gil-Romera, María Rieradevall, Pol Tarrats - Holocene		
	vegetation dynamics in the central Pyrenees (Spain) (Invited talk)		
11:30-11:45	Amy L. Prendergast, Rhiannon E. Stevens, Graeme Barker, Tamsin C. O'connell - A		
	Late Pleistocene refugium in North Africa? Paleoenvironmental reconstruction from		
	stable isotopes analyses of terrestrial Gastropods (Haua Fteah Libya)		
11:45-12:00	Giovanni Zanchetta, Mira Bar-Matthews, Russell Drysdale, Piero Lionello, Avner		
	Ayalon, John Hellstrom, Ilaria Isola, Eleonora Regattieri - Coeval dry events in the		
	central and eastern Mediterranean basin at 5.2 and 5.6 ka recorded in Corchia (Italy)		
	and Soreq Cave (Israel) speleothems		
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12:00-14:00 *Lunch and poster viewing* (includes 4min presentations in front of posters)

SESSION 2 - THE REGIONAL CLIMATE SYSTEM: OBSERVATIONS AND PROCESS STUDIES

14:00-15:30

Session 2 (Chair: Hadas Saaroni)

14:00-14:30	Georg C. Leckebusch, Katrin Nissen, and Uwe Ulbrich – Extreme events and
14:30-14:45	uncertainties in the Mediterranean: cyclones and wind storms (Invited talk) Baruch Ziv, Tzvi Harpaz, Hadas Saaroni, Richard Blender – The source of
	Mediterranean cyclones through analysis of 'parent - daughter' relationship using a new
	objective method
14:45-15:00	Ségolène Berthou , <u>Philippe Drobinski</u> ,cp Sylvain Mailler, Thomas Arsouze, Sophie
	Bastin, Karine Béranger, Cindy Lebeaupin Brossier - When and where are
	Mediterranean heavy rain events sensitive to atmosphere-ocean coupled processes?
15:00-15:15	Matteo Zampieri, Enrico Scoccimarro, Silvio Gualdi - Observed snowfall and river
	discharge trend and low-frequency variability over Alps
15:15-15:30	Ufuk Turunçoğlu – Sea surface temperature-precipitation relationship over Anatolian
	peninsula and Mediterranean region using fully coupled regional climate model
15:30-15:45	
15:00-15:15 15:15-15:30	Bastin, Karine Béranger, Cindy Lebeaupin Brossier – When and where are Mediterranean heavy rain events sensitive to atmosphere-ocean coupled processes? Matteo Zampieri, Enrico Scoccimarro, Silvio Gualdi – Observed snowfall and river discharge trend and low-frequency variability over Alps

15:45-16:15 *Coffee break and poster viewing* (includes 4min presentations in front of posters)

16:15-17:45

Session 2 (Chair: Gabriel Jordà)

session z (Gn	air: Gabriel Jorda)
16:15-16:30	Murat Gündüz, Emin Özsoy - Inter-annual variability of upper layer blocking of the
	Dardanelles Strait and its connection with the fish catch in the Aegean sea (1979-2013)
	(invited talk)
16:30-16:45	Dimitris Velaoras , George Krokos, Alexander Theocharis – A recurrent, salinity driven,
	dense intermediate water outflow from the Cretan Sea as a manifestation of
	thermohaline circulation changes
16:45-17:00	Sarantis Sofianos, Vassilis Vervatis, Anneta Mantziafou, Mihalis Ravdas -
	Investigating deep-water formation variability in the Aegean Sea and its influence in the
	adjacent basins deep circulation

17:00-17:15	Karina Von Schuckmann, Giulio Notarstefano, Francisco Calafat, Pierre-marie
	Poulain, Isabelle Taupier-letage, Louis Prieur, Mathieu Hamon, Nicolas Reul – Regional
	ocean indicators in the Mediterranean Sea from in situ measurements during 2004-2012
17:15-17:30	<u>Gianmaria Sannino</u> , Adil Sözer, Emin Özsoy – Recent advancements on modelling the
	exchange flow dynamics through the Turkish Strait System
17:30-17:45	Nadia Pinardi, Claudia Fratianni, Simona Simoncelli, Vladislav Lyubarstev, Paola Cessi
	 The large scale general circulation of the Mediterranean Sea: mean and decadal variability from the MFS re-analysis

18:00 ICE BREAKER Welcome Party at the Uptown Café, at the rear end of the Culture and Congress Center, starting shortly after the end of Monday's meeting.

Tuesday, 24 Jun

SESSION 3 - EXTREME EVENTS

09:00-10:30

Session 3 (Chair: Andrea Toreti)

09:00-09:30	<u>Annalisa Molini</u> – Aridity, Intermittency and Extremes: Predicting hydrological extremes
	in hyper-arid Regions (Invited talk)
09:30-09:45	Murat Türkes, Haim Kutiel - Climatological analysis of spatial variability in rain-spell
	characteristics in Turkey for the period 1970 to 2011
09:45-10:00	Enrico Scoccimarro, Gabriele Villarini, Silvio Gualdi, Alessio Bellucci, Matteo Zampieri,
	Antonio Navarra – Extreme precipitation events over the Euro-Mediterranean region:
	projections dependence on daily/sub-daily time scale definition
10:00-10:15	Hadas Saaroni, Baruch Ziv, Judith Lempert, Yael Gazit, Efrat Morin - Synoptic
	configurations responsible for prolonged dry spells in the Levant
10:15-10:30	Vassiliki Iordanidou, Aristeidis G. Koutroulis, Ioannis K. Tsanis – Cyclone-precipitation
	analysis for the island of Crete, Greece

10:30-11:00 *Coffee break and poster viewing* (includes 4min presentations in front of posters)

11:00-12:30

Session 3 (Chair: Murat Türkes)

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11:00-11:15	<u>David Barriopedro</u> - Revisiting blocking definition and associated impacts (Invited
	talk)
11:15:11:30	Leone Cavicchia, Silvio Gualdi, Hans Von Storch – Mediterranean tropical-like
	cyclones in present and future climate
11:30-12:00	Simon O. Krichak - The role of recent moisture transport trends in the climatology of
	extreme precipitation over the Euro-Mediterranean region (Invited talk)
12:00-12:15	Alper Önen, İsmail Yücel – Analyses of flood events using regional
	hydrometeorological modeling system
12:15-12:30	Haim Kutiel, Murat Türkes – Spatial and temporal variability of dryness distribution in
	Turkey

12:30-14:00 *Lunch and poster viewing* (includes 4min presentations in front of posters)

14:00-15:30

Session 3 (Chair: Elena Xoplaki)

session 3 (Cna	ыг: Еіепа хоріакі)
14:00-14:15	Simone Russo, Alessandro Dosio, Paulo Barbosa, Juergen Vogt – Extreme heat
	waves in present climate and their projection in a warming Mediterranean region
14:15-14:30	<u>Charles Hernandez</u> , Philippe Drobinski, Solène Turquety – Total fire size and fire
	radiative power in the Euro-Mediterranean area: different behaviors with respect to synoptic meteorology

SESSION 4 - MODEL SIMULATIONS OF CLIMATE VARIABILITY AND CLIMATE CHANGE

Session 4 (Chair: Serge Planton)

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14:30-15:00	<u>Piero Lionello</u> – An update on the med-cordex simulations (Invited talk)
15:00-15:15	Birgit Mannig, Heiko Paeth - The added value of regional climate modelling in the
	assessment of climate change in the Mediterranean region
15:15-15:30	Gianmaria Sannino, Adriana Carillo, Giovanna Pisacane, Mario Adani, Massimiliano
	Palma, Cristina Naranjo – On the improvement of the simulated Mediterranean Sea
	inter-annual variability

15:30–16:00 *Coffee break and poster viewing* (includes 4min presentations in front of posters)

16:00 -17:45

Session 4 (Chair: Piero Lionello)

session 4 (Uni	air: Piero Lionello)
16:00-16:15	Gabriel Jordà – Uncertainty in Mediterranean Sea observational and numerical climate
	products (Invited talk)
16:15-16:30	Giuseppe Zappa, Matt Hawcroft, Emily Black, David Brayshaw, Len Shaffrey -
	Extratropical cyclones and the Mediterranean precipitation decline in the CMIP5 models
	future projections
16:30-16:45	M. Tufan Turp, Tuğba Öztürk , Murat Türkeş, M. Levent Kurnaz – Investigation of
	projected changes for near future air temperature and precipitation climatology of
	Turkey and surrounding regions by using REGCM4.3.5
16:45-17:00	Ceren Ballı, Yurdanur S. Ünal, Stefanie Vogl, Harald Kunstmann – Bias correction of
	precipitation simulated by regional climate model over Turkey
17:00-17:15	Andrea Toreti, Philippe Naveau – An evaluation of climate model simulated
	precipitation extremes over the Euro-Mediterranean region
17:15-17:30	Batuhan Eren Engin, İsmail Yücel – The influence of downscaling and model
	calibration on flow predictions for past and future climate: OMERLI case study
17:30-17:45	Gerhard Smiatek , Harald Kunstmann – Future water availability in the upper Jordan
	Catchment (UJR)

Social dinner (Dinner at Çengelhan / Rahmi Koç Museum, Ankara Citadel, bus service provided, leaving from the conference venue at 18:30)

Wednesday, 25 Jun

SESSION 5 - IMPACTS OF NATURAL AND ANTHROPOGENIC CLIMATE CHANGE AND MITIGATION/ADAPTATION STRATEGIES

09:00-10:30 **Session 5 (Chair: Nadia Pinardi)**

09:00-09:30	Mladen Todorovic, Piero Lionello, Luis S. Pereira, Claudia Pizzigalli, Sameh Saadi,
	Lazar Tanasijevic - Impacts of climate change on Mediterranean crops (Invited talk)
09:30-09:45	Ayşen Yılmaz, Selin Kücükavşar, Hakan Ercan – Black Sea ecosystem sensitivity and
	vulnerability to climate change: impacts on fishery economy
09:30-10:00	İsmail Yücel , Abdülkadir Güventürk, Ömer Lütfi Şen – Climate change impacts on
	snowmelt runoff for mountainous transboundary basins in eastern Turkey
10:00-10:15	Erdem Özer , Chris Holt – Turkey policy on adaptation to climate change

10:15-10:45 *Coffee break and poster viewing* (includes 4min presentations in front of posters)

10:45-12:30 Session 5 (Chair: Hadas Saaroni)

10:45-11:00	Ömer Lütfi Şen, Ozan Mert Göktürk, Deniz Bozkurt – Changing climate: a great challenge for Turkey
11:00:11:15	Uğur Zeydanlı, Ayşe S. Turak , C. Can Bilgin, Yeşim Kınıkoğlu, Semra Yalçın, Hakan Doğan – Adapting to climate change: modeling the impact of climate change on forests
44.45.44.00	in the Seyhan basin and integrating adaptation measures into forestry management
11:15-11:30	<u>Direniş Çaylı,</u> Tuba Hande Ergüder, Barış Kaymak, Göksel N. Demirer, Sibel Uludağ Demirer – The CO2 sequestration by microalgal biomass
11:30-11:45	<u>Christos Giannakopoulos</u> , Anna Karali, Vassilis Psiloglou, Giannis Lemesios – Heat-
	related impacts of climate change in the east Mediterranean
11:45-12:00	Tuba Bucak, Dennis Trolle, Hans E. Andersen, Hans Thodsen, J. Alex Elliott, Seyda
	Erdoğan, Ayşe İdil Çakıroğlu, Meryem Beklioğlu – Predicting the effects of climate
	change and land use on lake Beysehir and its catchment
12:00-12:15	Marco Turco, Maria-Carmen Llasat, Jost Von Hardenberg, Antonello Provenzale –
	Climate change leads to more frequent fires in a Mediterranean environment

12:15-12:30 *Closing*

12:30 *Lunch*

Wednesday, 25 Jun afternoon

Tour of the Museum of Anatolian Civilizations at the Ankara Citadel (bus service provided at 14:00) on Wednesday afternoon for those not leaving immediately.

Thursday and Friday 26-27 Jun

Optional post conf tour upon booking with the travel agent Asterya
* visit the web page http://medclivar.asterya.com/tours/post-cappadocia-tour/
for more info and reservation