

## Poster Presentations

**Displayed in 3 sessions:**

**from Wednesday 28/5 to Friday 31/5 at  
17:30-19:00**

- Posters are to be displayed for the entire day.
- There will be a **poster competition for students and young scientists** (up to 3 years after PhD and under 35 years of age) sponsored by meteo.gr. **To register participation and obtain your sticker, please contact the secretariat upon arrival.**
- The general poster display time is from 08:30–19:30 from Wednesday to Friday. Authors are kindly requested to leave their posters for display during the respective poster session and remove them the latest, before the morning session of the following day.
- During the attendance time of each poster session, as per the session program below, authors are kindly requested to be available at their poster display.

**Wednesday 28 May 2014**  
**Poster Session-1- 17:30-19:00**

P#	Abstract ID	Environmental Pollution	First author
1	25	Simulation of physical and chemical processes of polluted air masses during the Aegean-Game airborne campaign using WRF-Chem model	Bossioli E
2	45	CART-based association analysis of meteorological data with PM10, CO and NOx concentrations in Athens	Asproulias H
3	48	Characterization of a CCD spectrometer for DOAS retrieval of atmospheric gases	Kouremeti N
4	52	Air pollution from airborne particulate matter during wintertime in two Greek cities	Florou K
5	54	Was the Sahara dust transport towards Greece exceptionally frequent and persistent during the Spring 2013 ?	Gkikas A
6	75	NO <sub>2</sub> measurements over Athens using the MAX-DOAS technique	Gratsea M
7	83	The use of ATR spectroscopy for the determination of functional groups in size segregated aerosol collected during a forest fire	Kalampounias AG
8	92	Meteorological parameters affecting the air pollution of the city of Patras	Karagiannidis AF
9	98	Meteorological conditions associated with severe dust storms in the Sistan region, Iran	Kaskaoutis D
10	114	Impact of International Shipping Emissions On Regional Air Quality of Istanbul Megacity	Kilic A
11	118	The impact of the forest fire episode at Mount Athos in August 2012 on the air quality of the city of Thessaloniki	Kollias P
12	170	Air quality investigation within the greater Thessaloniki area, Greece	Moustris KP
13	192	Study of the long-range transport mechanisms affecting air quality over Athens and Bucharest using synergy of remote and in situ sensors: the case of July 2012	Papayannis A
14	193	Coastal water quality monitoring over Cyprus based on ground truth field spectroradiometric data and remotely sensed observations	Papoutsas Ch
15	220	Evaluation of FLEXPART smoke dispersion using	Sofiou F-I

		MISR plume heights	
16	224	Modeling air pollution in Europe and the role of anthropogenic and biogenic emissions	Tagaris E
17	253	Long-term particulate matter variability in Cyprus and the Eastern Mediterranean	Kleanthous S
18	257	Atmospheric Pollution at the University of Patras Campus during fire events	Bloustos A
19	267	Analyses of Cd, Cr and Pb concentration in the aerosols using different digestion methods	Alushllari M
20	272	Assessment of roadside nitrogen dioxide variability using diffusive sampling method	Mico S
21	271	Occurrence of Nitrogen Oxides, PM2.5, and PM2.5-bound Polycyclic Aromatic Hydrocarbons in the Ambient Air of Heraklion (Island of Crete)	Iakovidis M

P#	Abstract ID	Remote Sensing	First author
22	2	Remote Sensing Observations and Model Simulations over Cyprus: A desert dust event analysis.	Mamouri R-E
23	8	Comparison of mixing layer heights derived from CALIPSO and WRF model simulations	Marinou
24	104	A 3D aerosol climatology in the atmosphere of Greece by remote sensing & radiative-transfer modeling techniques	Kosmopoulos P
25	225	AEROMAP: Satellite retrieval of dust aerosol microphysical and optical parameters using neural networks	Taylor M
26	233	Validation of CALIPSO classification scheme using airborne in-situ data.	Tsekeri A
27	20	The aerosol effect on potential evaporation at the Athens main water supply reservoirs	Benas N
28	180	Long range aerosol observations over Limassol using remote sensing techniques (2010-2013)	Nisantzi A
29	144	Tropical tropospheric ozone columns from nadir retrievals of GOME-1/ERS and SCIAMACHY/Envisat	Leventidou E
30	62	Variability of a thirty-year record of total ozone derived from a Brewer spectrophotometer at Thessaloniki and the SBUV version 8.6	Fragkos K.
31	129	Global total ozone and sulphur dioxide columns validation as part of the EUMETSAT Satellite Application Facility on Ozone and Atmospheric Chemistry Monitoring.	Koukouli M

32	130	Validation of an improved European long-term multi-sensor global total ozone record as part of the ESA Climate Change Initiative	Koukouli M.
33	131	Satellite Monitoring of Ash and Sulphur Dioxide for the mitigation of Aviation Hazards	Koukouli M.
34	190	Waterspout cloud top detection using MSG SEVIRI Infrared brightness temperature over south Aegean Sea.	Papa-christopoulou K.
35	47	Preliminary retrieval of water vapor column from direct solar irradiance spectral measurements with a CCD system	Drosoglou Th.
36	15	Use of a Synthetic Satellite Imagery towards Cloud Evaluation over the Southeastern Europe	Avgoustoglou E.

P#	Abstract ID	<b>Atmospheric Chemistry and Physics - poster session 1</b>	First author
37	13	Spatial distribution of aerosol species over the Aegean Sea: model coupling and evaluation during a recent Etesian period	Athanasopoulou E
38	33	Modeling the East Mediterranean marine ecosystem response to the atmospheric deposition nutrient fluxes	Christodoulaki S
39	42	Global Oxidant and Organic Aerosol sensitivity to biomass burning emission inventories.	Daskalakis N
40	65	Visibility records and trends since 1956, as a proxy of decadal changes in aerosol loads (SW Greece, Messenia)	Gerasopoulos E
41	194	Sensitivity of the atmospheric heating/cooling rate profile to the vertical distribution of aerosols	Pappas V
42	88	Past and Future changes of organic and inorganic nitrogen global atmospheric deposition	Kanakidou M
43	97	Current state of knowledge about aerosol trends over northern India	Kaskaoutis D
44	99	A study of the atmospheric electric field at an AERONET site in Xanthi, Greece, and its relation to AOD	Kastelis N
45	145	Sea salt and windblown dust emissions in the Eastern Mediterranean – Study of the natural PM emissions dependence on meteorology	Liora N
46	173	On the importance of aqueous-phase chemistry on the oxidative capacity of the troposphere: A 3-	Myriokefalitakis S

		dimensional global modeling study	
47	178	Trace Metals in PM <sub>10</sub> Particles over the Eastern Mediterranean	Nikolaou P
48	184	Atmospheric Chemistry of (CF <sub>3</sub> ) <sub>2</sub> C=CH <sub>2</sub> : OH radicals and Cl atoms rate coefficients, End-Products Analysis, IR spectra and Radiative Efficiency and GWP Determinations	Papadimitriou V C
49	185	Metal-Doped TiO <sub>2</sub> nanopowders as potential cleansers of air-toxic pollutants: UV and visible photocatalytic activity of Co-, Mn-, and Mn/Co-doped TiO <sub>2</sub>	Karafas E
50	4	Estimating near surface ozone trends over Europe for the time period 1996-2006 using the RegCM3/CAMx modeling system	Akritidis D
51	77	Cloud effects on tropical longwave radiation budget	Pyrina M
52	79	Investigation of the factors affecting solar UV Index forecast using satellite data	Papaioannou M
53	105	Solar energy prediction and verification using model forecasts and ground-based solar measurements	Kazadzis S
54	108	Development of a neural network model of cloudiness forecasting for solar energy purposes	Kazantzidis A
55	172	Estimation of hourly global irradiation using artificial neural networks	Paliatsos AG
56	274	SOLID – a European FP7 Project towards the First European Comprehensive Solar Irradiance Data Exploitation	Haberreiter M
57	133	A yet unreported atmospheric optical phenomenon: The green sky band	Kourtidis K

**Thursday 29 May 2014**

**Poster Session-2- 17:30-19:00**

P#	Abstract ID	Atmospheric Chemistry and Physics - poster session 2	First author
1	214	An isotope-evaporation model for the investigation of the sub-cloud evaporation effect in precipitation	Salamalikis V
2	222	Fitting ambient submicron particle size	Stavroulas I

		distributions using the Expectation Maximization Algorithm	
3	235	Consolidating global AeroCom simulations of organic aerosols	Tsigaridis K
4	237	Modeling global organic aerosol formation and growth	Tsimpidi A
5	244	Simulations of new particle formation and growth processes at Eastern Mediterranean, with the MALTE-Box model	Tzitzikalaki E
6	249	The influence of air mass origin to the solubility of atmospheric P.	Violaki P
7	259	An evaluation of the mesoscale chemistry model (WRF-CHEM) over the Mediterranean region	Amanatidis D
8	153	Atmospheric cluster dynamics in the Eastern Mediterranean	Manninen H
9	228	Long-term measurements of carbonaceous aerosols in the Eastern Mediterranean	Theodosi Ch
10	22	Assessment of ground based particulate matter measurements at two Mediterranean places during Saharan dust events	Bleta A
11	275	Aerosol forcing efficiency from the FORTH radiative transfer model with CALIOP AOD vertical profiles	Korras-Carraca MB
12	247	Climate change and future ozone concentrations in high resolution over Europe	Varotsos K
13	236	Evaluating the impact of data assimilation on near surface ozone in the MACC-ii global reanalysis	Tsikerdekis A
14	252	Variability and trends of tropospheric ozone in Cyprus and the Eastern Mediterranean	Kleanthous S
15	207	Regression of the Direct Irradiance Intensity with Precipitable Water Depth and Relative Atmospheric Mass (part I)	Rapti A
16	208	A Method for Calculating O <sup>1</sup> D and NO <sub>2</sub> Photolysis Frequencies using satellite based UV solar radiation retrievals	Raptis IP
17	260	The Hellenic Solar Energy Network: validation of products	Bais A
18	261	Estimated Products in Thessaloniki from a NILU-UV multichannel radiometer	Zempila M Bais A
19	270	Solar Radiation Measurements and Model Calculations at Inclined Surfaces	Kazadzis S

20	6	Modeling surface solar radiation over Eastern Mediterranean	Alexandri G
21	39	Cloud-screening algorithm and determination of clear sky solar irradiance and cloud properties in the island of Lampedusa	Dafis S
22	107	Current state report on Weather Intelligence for Renewable Energies (WIRE) in the frame of COST Action ES1002	Kazantzidis A

P#	Abstract ID	Climatology-Meteorology	First author
23	12	Effect of climatic conditions on the energy performance of typical dwellings across Europe	Assimakopoulos MN
24	30	Long-term evolution of daily atmospheric circulation indices and types in European regions since 1850	Cahynova M
25	31	Very high resolution daily precipitation and temperature projections for Cyprus: 2020-2050	Camera C
26	36	Stability of thermal conditions in Central Europe	Ciaranek D
27	46	Study of climate change impacts on tourism in Messenia using a regional climate model	Douvis K
28	49	Preliminary analysis of long-term variability of upper tropospheric humidity in the northern mid-latitudes	Eleftheratos K
29	50	The geographic climate information system Geoclima	Feidas H
30	55	Multi-annual changes in the occurrence of prevailing cloud types in Athens	Founda D
31	57	A climatic study at a vulnerable touristic region of Southwestern Greece – Observations and simulations	Founda D
32	66	Climatic conditions of the delta of the Pinios River (Thessaly, Greece), based on in-situ meteorological measurements	Ghionis G
33	84	Athens cloudiness index variability and correlation with main teleconnection indices	Kalimeris A
34	87	Air temperature conditions in relation to the terrain and the ground cover type in a region of the island Kefallinia, Greece	Kamoutsis A
35	89	The influence of North Sea-Caspian Pattern (NCP) in the precipitation regime over Europe and Mediterranean	Kapsomenakis J

36	91	Comparison of six spatial interpolation methods for the estimation of missing daily temperature and precipitation data	Karagiannidis AF
37	93	An integrated assessment of climate change impacts from the regional scale of the area of Peloponnese to the local scale of the area of Messinia	Karali A
38	102	A transient high resolution regional climate simulation for Greece for the period 1960-2100	Katragkou E
39	119	Homogenization of mean monthly precipitation time series	Kolokythas K
40	142	Precipitation extremes in regional climate model simulations over Europe	Kysely J
41	148	Atmospheric circulation characteristics favouring precipitation in Cyclades Islands, southern Aegean	Varrias S
42	149	Analysis of the correlation between circular and linear variables. An application to wind direction and air temperature data.	Lototzis M
43	245	Climatic study of the surface wind field and extreme winds over the Greek seas	Vagenas C
44	164	Prediction of daily maximum and minimum air temperature values using dynamic neural network models	Mazou E
45	174	Constraining future climate-land carbon cycle projections using observationally-based carbon flux estimates	Mystakidis S
46	175	Seasonal analysis of composite mean and anomaly of synoptic conditions during waterspout days over north Cretan Sea, Greece	Nastos P
47	181	Phase coherence between solar/geomagnetic activity and climate variability from stratosphere to troposphere	Novotná D
48	182	On the relation between heat wave events and fire risk indices over Chalkidiki- Greece.	Pakalidou N
49	188	The urban climate characteristics of Greek cities	Papamanolis N
50	199	Variability and trends of mean maximum and mean minimum air temperature within the Mediterranean region, during the period 1951-2013	Philandras K
51	201	Precipitation characteristics over Czech Republic simulated by ALARO-Climate RCM	Pokorna L
52	203	Statistical Investigation of Subalternation of the	Puskas J



		Daily Mean Wind Speed on the North-West Region of Carpathian Basin	
53	211	Effects of extreme teleconnection indices on climatic parameters over Mediterranean: present and future simulations	Roussi E
54	232	Climatology and origins of air masses over Thessaloniki	Tsavidari A
55	240	A comparison and statistical analyses of model water balance simulations in areas with different climatic and soil conditions: a preliminary study.	Laiaki M
56	241	The influence of Pindus mountainous range upon the temperature and precipitation characteristics	Tympanidis K
57	248	High Resolution Climate over Greece: Assessment and Future Projections	Velikou K
58	250	Greece, 1900-2000. Reflections of extreme weather events in daily, periodical and electronic press	Vlahakis GN
59	255	Soil temperature regime in Croatia	Vucetic V
60	269	Climate and climate change analysis for the island of Korcula, Croatia	Gajic-Capka M

**Friday 30 May 2014**  
**Poster Session -3- 17:30-19:00**

P#	Abstract ID	Meteorology/Extreme Events	First author
1	112	The Study of Atmospheric Blocking Associated with Negative Precipitation Anomaly in Iran	Azizi G
2	16	Radar storm characteristics based upon their synoptic situations over Thessaly	Bampzelis D
3	34	Supercell Storms in Northern and Central Greece	Christodoulou M
4	53	Space-time and kinematic features of hailstorms in Northern and Central Greece	Foris D
5	95	Coupled Weather – Wildland Fire Model for fire behavior interpretation	Kartsios S
6	127	A 1010 hPa cyclone causing extreme rainfall and an autumn chlorophyll bloom	Kotta D
7	179	Nowcasting extreme weather events: the case study of the deadly flash flooding at November 22nd 2013 in Rhodes Island	Nomikou V

8	202	A web service for the assessment of the behaviour and the spread of a forest fire	Poursanidis D
9	216	Investigation of extreme precipitation in Greece. Can this phenomenon be attributed to atmospheric rivers?	Mita C
10	217	Differences between two hailstorms developed under two different forcing mechanisms over the same synoptic environment in Central Macedonia	Sfyri E
11	218	A cyclic supercellular thunderstorm in northern Greece	Sioutas M
12	21	WRF input parameter updates based on recent and long-term satellite observations	Benas N
13	14	The Application of COSMO-LEPS at the Hellenic National Meteorological Service	Lamaris C
14	17	The Pindus mountainous range effect on the temperature-precipitation relation	Bampzelis D
15	27	Dry intrusion triggering explosive cyclogenesis in the Mediterranean	Brikas D
16	18	Emergence of non-zonal coherent structures in barotropic turbulence	Bakas N
17	38	Emergence and equilibration of zonal winds in turbulent planetary atmospheres	Constantinou N
18	60	Von Karman Cloud Vortex Street over the Aegean Sea	Fragkouli P
19	67	Forecast errors of Rossby waveguides	Giannakaki P
20	68	Synoptic, dynamic and thermodynamic characteristics of snowfall events in the area of Thessaloniki	Giannoulakis I
21	69	Combining synoptic scale weather typing and satellite based surface solar radiation monitoring for the assessment of the extremes of solar radiation accumulation	Gkousarov Th
22	82	Study of snowfall events that caused problems in the operation of Athens International Airport "Eleftherios Venizelos"	Vrachnou A
23	94	Evaluation of Kalman filter on temperature forecasts simulated by numerical weather prediction models	Karoutsos
24	111	The International Severe Weather Survey – an interim report	Keul Alexander
25	117	A model-based study of the wind regime over the Corinthian Gulf, in Greece	Koletsis I

26	124	Heat and humidity flux measurements within the surface marine atmospheric boundary layer over the Aegean Sea	Kostopoulos V
27	128	Issuing the marine bulletin in HNMS: checking the operational NWP model performance using satellite and buoy measurements	Michalopoulou E
28	141	Impact of conventional and non-conventional observations on mesoscale prediction of Bay of Bengal cyclone Mahasen	Singh KS
29	151	Synoptic, Dynamic and Thermodynamic Characteristics of the 21-23 January 2004 Meteorological Bomb over Eastern Mediterranean.	Lysitsa E
30	155	Spatial and temporal analysis of lightning's impact over Greece	Matsangouras IT
31	196	Study of the explosive cyclogenesis 'JULIA' in the Mediterranean area	Paschos F
32	200	Evaluation of WRF performance for the analysis of surface wind speeds over various Greek regions	Christakis N
33	205	A comparative study of two land surface schemes using WRF-ARW model	Kotsopoulos S
34	227	Numerical weather prediction sensitivity to sea surface temperatures	Tegoulas I
35	229	Relationship between atmospheric circulation types and storm surges over the Greek seas.	Tolika K
36	263	Assessing the influence of diabatic heating on Mediterranean explosive cyclones	Kouroutzoglou J
37	264	Deficit in the moisture transport from the Mediterranean Sea and associated droughts in the surrounding continental areas	Nieto R
38	7	Meteorological characteristics, postfire effects and soil erosion risk in the lake Marathon basin (Attica, Greece) using the PESERA model.	Alexiou D- S
39	167	Evaluation of air and soil temperatures with Artificial Neural Networks	Michalas S
40	212	Statistical – synoptic analysis of summertime extreme precipitation events over Kerman province, Iran	Soltani M
41	213	Assessments of blocking effects on rainfall in northwestern Iran	Rousta I

P#	Abstract ID	Agrometeorology/Bioclimate	First author
42	37	Projections of potential crop yield of durum wheat in the Eastern Mediterranean and Middle East derived from the AEZ methodology and the PRECIS RCM	Constantinidou K
43	162	Temporal Evolution of Bioclimatic Indices in the Main Winegrape Regions of Greece	Koufos GC
44	163	Regional Rainfed Wheat Yield Forecasting in Central Macedonia With CERES-Wheat Crop Model	Mavromatis T
45	35	An application of the numerical microclimatic model ENVI-met to evaluate thermal and bioclimatic conditions in an urban cluster with a vegetated courtyard.	Christopoulou V
46	176	Present and future projections of human-bioclimatic conditions over Peloponnese, based on regional climate models' simulations	Nastos P
47	210	Microclimatic and bioclimatic conditions in two urban open spaces in Athens with different configuration during the summer of 2012	Rigopoulou D
48	23	Weather impacts on human's health in a Mediterranean coastal city	Bleta A
49	157	Assessment possibilities of thermal comfort by micro scale models	Matzarakis A
50	171	Assessment of biometeorological conditions within the greater Athens area	Moustris KP
51	223	On the impact of thermal stress on human health: Application of the Universal Thermal Climate Index (UTCI) to Thessaloniki, Greece	Syropoulou P
52	197	Agro-ecological characterization of Cyprus	Pashiardis S