





Common International Conference

Integrated Groundwater Management of Mediterranean Coastal Aquifers



Chania, Crete, Greece

Detailed Programme









MIDE



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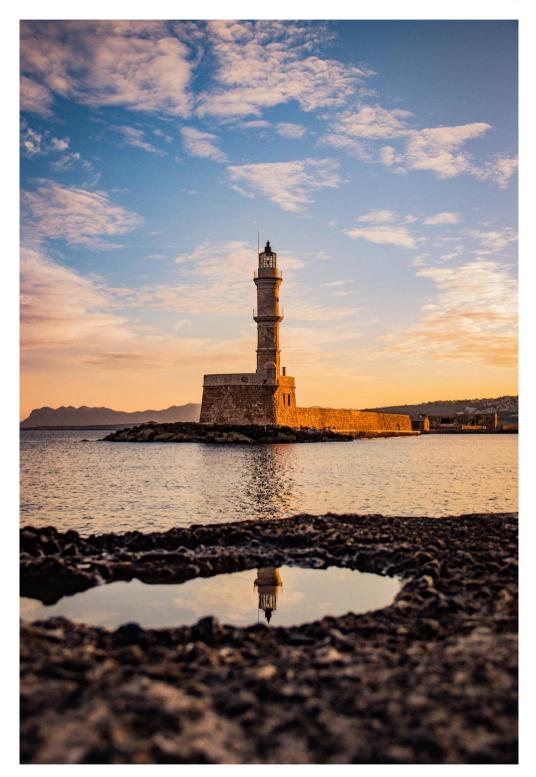
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27 -30 September 2022 Chania, Greece



Time Zone: Athens, Attica, Greece, Eastern European Summer Time (**UTC+3**)





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DAY 1 - Tuesday September 27th, 2022

13:00 - 13:30	Welcome and Participants Registration
13:30 - 14:30	Lunch
14:30 - 16:00	Parallel Sessions Sustain-COAST/MEDSAL
16:00 - 16:45	Coffee Break

Welcome Session	
Chairpersons: Prof. G. Karatzas, Dr. E. Tziritis	
16:45 - 17:00	Formal welcome and greeting from the official authorities of Chania
17:00 - 17:30	Welcome and Presentation of the PRIMA Project Officer, Mr. Marco Orlando
17:30 - 18:00	Welcome and Presentation of the Sustain-COAST PRIMA project, Prof. George Karatzas
18:00 - 18:30	Welcome and Presentation of the MEDSAL PRIMA project, Dr. Evangelos Tziritis

DAY 2 - Wednesday September 28th, 2022

	Session 1	
Tools and methods for groundwater salinization and/or overall quality assessment		
(hydrogeolog	(hydrogeology, hydrogeochemistry, environmental isotopes, monitoring, modelling, artificial	
	intelligence and geostatistics)	
	Chairpersons: Dr. S. Jomaa, Dr. A. Panagopoulos	
10:00 - 10:15	Deciphering factors governing salinization of Tarsus Coastal Aquifer (Mersin, SE	
	Turkey) using an integrated data analysis approach combining multivariate	
	statistics, GIS and hydrogeochemical modelling techniques	
	Güler et al.	
10:15 - 10:30	Analyzing the dynamics of groundwater salinization in coastal aquifers through	
	statistical and hydrogeochemical approaches: strengths and future outlooks	
	Parisi et al.	
10:30 - 10:45	Assessment of groundwater quality in Pinios Hydrologic Observatory, central	
	Greece	
	Kinigopoulou et al. (presenter: Dr. Pisinaras)	
10:45 - 11:00	Evaluation of spatio-temporal changes in groundwater quality of Tarsus Coastal	
	Aquifer (Mersin, Turkey) using GIS techniques and water quality indices	
	Güler et al.	
11:00 - 11:30	Coffee Break	



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	Session 2 (Online session)	
Tools and methods for groundwater salinization and/or overall quality assessment		
(hydrogeology, hydrogeochemistry, environmental isotopes, monitoring, modelling, artificial		
	intelligence and geostatistics)	
	Chairpersons: Dr. E. Varouchakis, Dr. E. Tziritis	
11:30 - 11:45	Monitoring of Groundwater Quality for Irrigation Purposes Using Classical	
	Methods, Case of Study: The Shallow Aquifer of Oriental Coast, Cap-Bon,	
	Northeastern of Tunisia	
	Yahyaoui et al.	
11:45 - 12:00	Assessment of groundwater contamination and salinity sources in the Bouareg	
	and Gareb aguifers (northeast Morocco)	
	Elmeknassi et al.	
12:00 - 12:15	Inclusion of hydrological information for classifying groundwater quality data	
12.000 12.120	Panagiotou et al.	
12:15 - 12:30	Predicting seawater intrusion using artificial intelligence-based models for the	
12.15 12.50	optimal and sustainable use of groundwater in coastal aquifer: Case of	
	Monastir, Tunis.	
	Mejdoub et al.	
12.20 12.45		
12:30 – 12:45	Contamination using DRASTIC and GIS Methods in Central-Tunisia: Arid Zone	
	Missaoui et al.	
12:45 – 13:00	Residence time and origin of intruded saltwater	
	Külls et al.	
13:00 - 13:15	Assessment of the impact of including hydrological information in the	
	classification of groundwater quality data	
	Panagiotou et al.	
13:30 - 14:30	Lunch	

	Session 3	
Tools and m	Tools and methods for groundwater monitoring at coastal aquifers (ICT tools, multi-probe	
	sensors, web-GIS applications, integrated telemetric observatories)	
	Chairpersons: Prof. G. Schäfer, Prof. P. Kyriakidis	
15:00 - 15:15	Indirect methods for defining the hydrodynamic response of a complex coastal	
	karst aquifer	
	Balacco et al.	
15:15 – 15:30	Initial results from the development and operation of a sensor-based	
	groundwater salinization monitoring network in Rhodope, Greece	
	Pisinaras et al.	
15:30 - 15:45	Evolution of pollution sources at last decade of wadi el bey watershed area	
	Akrout et al.	
15:45 - 16:00	The subsidence of the coastal aquifer of Comacchio: an interesting challenging	
	Pedretti et al.	
16:00 - 16:30	Coffee Break	



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Session 4 (Online session)	
Tools and methods for groundwater monitoring at coastal aquifers (ICT tools, multi-probe	
sensors, web-GIS applications, integrated telemetric observatories)	
	Chairpersons: Prof. H.B. Akrout, Prof. C. J. Külls
16:30 - 16:45	Monitoring of Saltwater intrusion in the Chtouka aquifer (Agadir - Morocco)
	Neyens et al.
16:45 - 17:00	Identification of Groundwater Potential Zone through Geospatial mapping using
	AHP method of Multi-criteria Decision Making in Tons-Ghaghara Interfluve
	Region
	Hashim et al.

20:00	Sustain-COAST and MEDSAL partners Dinner
	Restaurant Michalis
	(Akti Tompazi - 54-56 Sourmeli, 73132 Old harbor Chania)

DAY 3 - Thursday September 29th, 2022

Session 5		
Numerical flow and transport modelling for groundwater assessment and sustainable		
management of coastal aquifers		
	Chairpersons: Prof. Ü. Yıldırım, Prof. G. Ballaco	
10:00 - 10:15	Variable density flow modelling in coastal aquifers of Greece and Tunisia	
	Doulgeris et al.	
10:15 - 10:30	Development of a groundwater map for the Mediterranean region combining	
	global models and in-situ data	
	Ben-Salem et al. (presenter: Dr. Jomaa)	
10:30 - 10:45	A numerical flow and transport model for sustainable groundwater	
	management of the coastal aquifer system of the Arborea plain, Sardinia (Italy)	
	Lincker et al. (presenter: Prof. Schäfer)	
10:45 - 11:00	Quantitative groundwater modelling of the Wadi El-Bey watershed (Tunisia)	
	Baccouche et al. (presenter: Prof. Schäfer)	
11:00 - 11:30	Coffee Break	

Session 6	
Best practices and innovative technologies for sustainable water management / Sustainable	
actions to avoid groundwater depletion	
	Chairpersons: Dr. T. Mellah, Prof. C. Güler
11:30 - 11:45	Barriers to the application of "Adaptive Management" to coastal aquifers
	Werner et al.
11:45 - 12:00	Aposelemis Projects: the largest hydraulic project of the region of Crete
	Gyparakis
12:00 - 12:15	Modelling the Water-Energy-Food-Ecosystem Nexus in the JRC
	Trichakis et al.



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12:15 – 12:30	Groundwater Recharge Time Series Estimation Supported by Earth-Observation
	Data: A Case Study of the Gediz River Basin Alluvial Aquifer
	Batkan et al. (online presentation, presenter: Prof. Elçi)
12:30 - 12:45	The DRASTICA method a decision support tool: Case of the Annaba region. East
	Algerian
	Larbi et al. (online presentation)

Session 7 Water governance, conflicts and stakeholder analysis Chairpersons: Prof. P. P. Roggero, Prof. F. Hamzaoui	
12:45 - 13:00	Re-thinking social complexity throughout the stakeholder mapping. A sociological approach to water governance analysis Deriu et al.
13:00 - 13:15	Identification of suitable regions for intentional recharge of aquifers through multi-criteria decision analysis and stakeholders' involvement Panagiotou et al. (online presentation)
13:30 - 14:30	Lunch

Session 8	
Assessment and modelling of coastal aquifer susceptibility to salinization and/or other pollution	
	Chairpersons: Dr. Y. Trichakis, Dr. A. Panagopoulos
15:00 - 15:15	Pollution Vulnerability Assessment of Arborea Coastal Aquifer (Sardinia, Italy) by
	Modified AHP-DRASTICLu Model Using GIS
	Yıldırım et al.
15:15 - 15:30	Modeling the groundwater flow of Malia Coastal Aquifer (Crete, Greece) under
	climate change
	Diakoparaskevas et al. (presenter Prof. Karatzas)
15:30 - 15:45	Investigation of the Pollution Vulnerability of Malia Coastal Aquifer (Crete,
	Greece) by Modified AHP-DRASTICLu Model Based on GIS
	Yıldırım et al.
16:00 - 16:30	Coffee Break
16:30 - 18:00	General Discussion Sustain-COAST and MEDSAL PRIMA projects

<u> DAY 4 – Friday September 30th, 2022</u>

Tour in Malia case study for Sustain-COAST and MEDSAL partners

08:00 - 10:30	Departure (KRITI HOTEL)
10:30 - 12:20	Water Treatment Plant of Aposelemis Dam and visiting the Aposelemis Dam
12:30 - 13:45	Lunch in Krasi Village (It is not covered by the Conference)
14:00 - 15:15	Malia Wetland and Archaeological site of Malia in Potamos
15:30 - 17:00	Old Female School of Malia – Welcome from the local women of KOIPODI
17:00 - 19:30	Departure and arrival in Chania

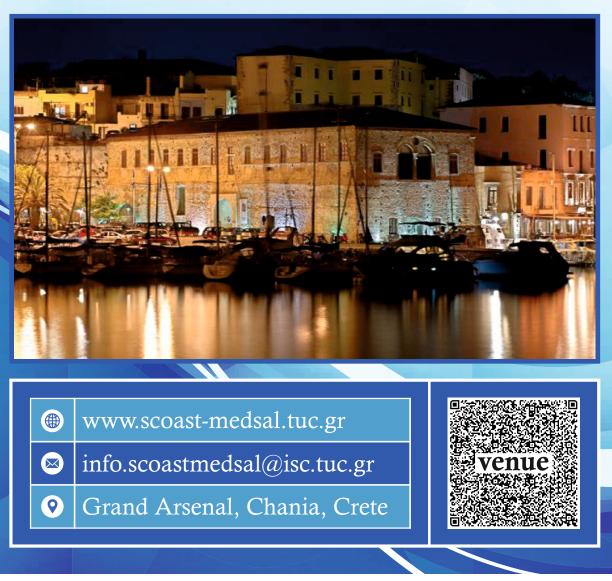








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