



Embassy of Italy
Cairo



BIBLIOTHECA ALEXANDRINA
مكتبة الإسكندرية



Arab Academy
for Science, Technology
& Maritime Transport

Science Diplomacy Workshop

“Climate Change in the Broader Mediterranean area”.

Background:

Global climate changes are affecting the Mediterranean area as all other regions of the planet. Yet, the specific Med-area appears to be an important climate change hotspot due to pronounced warming and drying. This may result in a negative impact on all activities related to the Mediterranean, from its fauna and flora population, to biodiversity, pollution, food security, weather disaster risks, coastal preservation, energy...and consequently on economy and society of a broader area that is the Mediterranean itself. Those challenges shall be tackled together, as recently declared that the 42 countries of the Union for the Mediterranean, that endorsed recently a ministerial declaration that seeks to exploit the potential of research and innovation to increase the resilience of the Euro-Mediterranean region against environmental, food security and socioeconomic challenges, as well as to promote science diplomacy.

A two days workshop will host international experts to discuss the aspects and the consequences of climate change in the broader Mediterranean area, and also consider related case-studies dedicated to other regions of the planet. The workshop will cover the following aspects

Climate Change observation, modelling and foresight

Impact on the sea (temperature, biodiversity, sea currents, extreme weather-"Medicanes")

Impact on the coast

Impact on agriculture

Timing and location:

The event will take place on 9-10 October in the premises of Bibliotheca Alexandrina, host and co-organiser, in Alexandria, Egypt.

Description of the event:

The Italian Embassy in Cairo in collaboration with Bibliotheca Alexandrina, NIOF and AASTMT, will organize the two days workshop aimed at discussing the impact and consequences of Climate Changes in the Mediterranean, to raise awareness in the civil society and the policy makers and reinforce the dialogue among the scientific community in the area. The event in presence will be in English and will be streamed online. Presentation and photo of the event will be available at the end of the works and findings of the workshop will be collected in a proceedings booklet edited by Bibliotheca Alexandrina.

Audience:

Researchers and academics, students, NGOs, industry and civil society. The location will be tailored for 100 people (max) attending in presence.

With the participation of CNR, ENEA, UniGENOVA, NIOF, CRI, EgSA, ECCADP – MWRI, Uni ALEX, Uni AinShams, Uni Suez, AASTMT, UfM, EUMESTAT, IOC UNESCO-Italy, IOC UNESCO-Portugal, Oceano Azul Foundation.

Bibliotheca Alexandrina
Delegates Center, Conference Room
Alexandria 9-10 October 2022

with the support of



Consolato Onorario d'Italia
in Alessandria d'Egitto



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Agenda Day 1 October 9th

9am-10am Welcome Coffee and registration, poster setup

10:00 am welcome and outline of the workshop

Mario De Pasquale Honorary Consul, Alexandria

Domenico De Martinis Scientific Attache' - Embassy of Italy

Opening remarks:

Prof. Ahmed Abdullah Zayed Hegab Director Bibliotheca Alexandrina

Prof. Dr. Yasser Gaber - Dean of Scientific Research and Innovation Arab Academy for Science, Technology & Maritime Transport (AASTMT)

Prof. Amr Hamouda President National Institute of Oceanography and Fisheries

Dr. Sameh Reyad Head of Alexandria Branch at Ministry of environment

10:50 *Earth Observations Addressing New Reality of the Mediterranean.*

Hesham El-Askary Deputy CEO, the Egyptian Space Agency

11:20 *A new Research and Innovation Agenda for the Mediterranean region*

Dr. Giuseppe Provenzano. Higher Education and Research-Union for the Mediterranean

11:50 *CNR and the International Dimension. Strategy, Instruments for Implementation and Science Diplomacy in the Mediterranean.*

Dr. Francesca Tolve, Head of Sector - Science Diplomacy and International Cooperation.

National Research Council of Italy - Office for European and International Relations.

12:20 Health break 40 min

13:00 *The global meteorological satellite observing system*

Paolo Ruti, Chief Scientist EUMESTAT-[webstreaming](#)

13:30 *The Science We Need for the Mediterranean Sea We Want*

Rosalia Santoleri. Director of the Institute of Marine Science ISMAR. CNR-Italy

President of the Italian Committee for the Intergovernmental Oceanographic Commission

IOC/UNESCO -[webstreaming](#)

14:00 *Climate Change impact on the Atlantic ocean*

Prof. Luis Menezes Pinheiro Marine Geology and Geophysics, University of Aveiro

President of the Portuguese Committee for the Intergovernmental Oceanographic

Commission IOC/UNESCO -[webstreaming](#)

14:30 *The view on the Red Sea*

Dr. Suzan El-Gharabawy, Head of marine geophysics department, NIOF.

15:00 *Future climate change in the Mediterranean Sea: a focus on sea-level change*

GianMaria Sannino, Head of the Climate Modelling Laboratory and Impacts, ENEA-Italy -
[webstreaming](#)

15:30 *Climate change effects on maritime climate in the Mediterranean Sea: future temporal and multimodal variability.*

Dr. Andrea Lira Loarca, MeteOcean Research Group, University of Genoa

16:00 Q&A - open discussion -

end of day 1

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Day 2 October 10th

10:00 am *Forecasting Impacts of Sea level Rise on Coastal Cities, Caused by Climate Change. –A Case Study on Alexandria Western Harbor.*

Dr. Capt. Ahmed Magdy Khedr, Lecturer, Arab Academy for Science & Technology and Maritime Transport (AASTMT)

10:30 *Saltwater Intrusion in a Mediterranean Delta Under a Changing Climate*
Debora Bellafore, CNR-ISMAR, Italy

11:00 *The GCF coastal project in Egypt, Where we got to?*

Dr. Mohamed Ahmed Ali, Project Manager, Enhancing Climate Change Adaptation in the North Coast and Nile Delta Regions in Egypt Project (ECCADP) – Ministry of Water Resources and Irrigation (MWRI).

11:30 *Potential blue carbon in Egypt: Red Sea and Mediterranean opportunities*
Prof. Tarek A Temraz Suez Canal University Ismailia- Egypt

12:00 *Impacts of Sea Dynamics on Coastal Processes in Egypt*
Prof. Tarek El-Geziry Head of Physical Oceanography Department, NIOF

12:30 Health break 30 min

13:00 *Climate change in the Mediterranean: common challenges, varied risks and different impacts*

Prof. Mohamed Abdrabo, head of climate change center: Alexandria University

13:30 *The Climate Emergency and Species Extinction Crisis - Challenges, Impacts and Solutions*

Prof. Emanuel Gonçalves, Chief Scientist and Member of the Board
Oceano Azul Foundation, Portugal-[webstreaming](#)

14:00 *Challenges and adaptation options for climate change impacts on Egyptian agriculture*
H.E. Prof. Ayman Farid Abou Hadid, former minister of agriculture and Professor at faculty of agriculture, Ain Shams University

14:30 Climate Change Research at AASTMT
Prof. Dr. Kareem Tonbol, AASTMT

15:00 poster premiation

15:30 closing remarks

16:00 Farewell coffee - end of workshop

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