

## Scientific conference

# Climate Change and its implication to Smart ICZM and sustainable Blue Growth

The Scolamar project aims at supporting Moroccan universities in planning an innovative Master programme focused on coastal zone management, in order to promote the development of a sustainable "blue economy" in Morocco, thus contributing to the implementation of the national strategy in Integrated Coastal Zone Management. The programme, based on the integration of scientific knowledge and coastal management expertise, will provide to perspective students a sound scientific background, as well as a range of tools to deal with the main environmental and socio-economic issues concerning the sustainable development of coastal area graduates. Climate Change, CC, is a global driver, which is very likely to affect coastal areas in Morocco: this Conference aims at providing an overview of emerging issues in ICZM, related to CC, as well as at outlining the potential contribution of the Scolamar master programme in designing and implementing adaptation strategies.

### Overview

<b>April 18th</b>	
12.00-14.30	Registration
14.30-15.00	Welcome from Kénitra University, Local and National Authorities, Scolamar coordinator.
15.00-17.00	Session 1: Paleoclimate and the climate system
17.00-19.00	Networking session - Poster Session

<b>April 19th</b>	
09.00-11.00	Session 2: Coastal Hazards and climate change
11.00-11.30	Coffee break
11.30-12.30	Session 2: Coastal Hazards and climate change
12.30-14.00	Lunch
14.00-15.30	Session 3: ICZM and adaptation to climate change
15.30-16.00	Coffee break
16.00-17.30	Session 3: ICZM and adaptation to climate change
17.30-19.00	Networking Session - Poster Session
20.00	Free dinner

<b>April 20th</b>	
09.00-11.00	Session 4: Coastal management in Morocco: main issues and SCOLAMAR contribution
11.00-11.30	Coffee break
11.30-13.00	Session 4: Coastal management in Morocco: round table with stakeholders
13.00-13.15	Concluding remarks

# Climate Change and its implication to Smart ICZM and sustainable Blue Growth

## Programme

### Day 1

---

**April 18<sup>th</sup> 15:00 – 17:00**

**SESSION 1: PALEOCLIMATE AND THE CLIMATE SYSTEM (Chairperson: Pr. Abdellah AMMAR University Mohamed V)**

15:00 – 15:40 Paul Treguer (UBO): *Ocean-climate: the regulating role of the ocean on a planetary scale and the carbon dioxide physical and biological pump.*

15:40 – 16:00 Brahim Damnati (UAE): *Climate change in Morocco since 21000 years BP until today.*

16:00 – 16:20 Susana Costas (UALG): *Adaptation of sandy coasts to changing climate conditions during the Holocene*

16:20 – 16:40 Ignacio Hernandez (UCA): *Facing the challenge of climatic change: what can we learn from the marine macrophytes from Spain?*

16:40 – 17:00 Bouchta El Moumni (UAE): *High-resolution survey in both space and time of the Gibraltar strait: the hydrochanges Gibraltar international program managed by CIESM.*

**April 18<sup>th</sup> 17:00 – 19:00**

**Networking [Session](#) - Poster Session**

### Day 2

---

**April 19<sup>th</sup> 09:00 – 11:00**

**SESSION 2: COASTAL HAZARDS AND CLIMATE CHANGE (Chairperson Prof. Roberto PASTRES)**

09:00 – 09:30 Andrea Critto (UNIVE): *Risk assessment and decision support tools for the evaluation of multiple climate change impacts in coastal and marine areas.*

09:30 – 09:50 Saida Niazi (UM5R): *Perception of coastal hazards relating to sea level rise in Morocco*

09:50 – 10:10 Bendahhou Zourarah (UCD): *Vulnerability of the Moroccan coastal facing the extreme hazards*

10:10 – 10:30 Nadia Mahmmdi (UM5R): *Moroccan coastal zones: vulnerability to climate change*

10:30 – 11:00 Fidel Echevarria (UCA): *Plastic debris in the ocean, a new problem at a biosphere globally changing.*

**April 19<sup>th</sup> 11:30 – 12:30**

**SESSION 2: COASTAL HAZARDS AND CLIMATE CHANGE (Chairperson Prof. Bendahhou ZOURARAH)**

11:30 – 11:50 Saïd Chakiri (UIT): *Impact of climate change on coastal sand mobilization.*

11:50 – 12:10 Khalid Mehdi (UCD): *Impact of climatic variations on the vulnerability of coastal aquifers in western Morocco: The case of the Doukkala sahel and the coastal Chaouia*

12:10 – 12:30 Mounir Hakkou (UM5R): *Marine submersion risk analysis of the Mehdi coast*



**April 19<sup>th</sup> 14:00 – 15:30**

**SESSION 3: ICZM AND ADAPTATION TO CLIMATE CHANGE (Chairperson Prof. Fidel Echevarria)**

14:00 – 14:30 Catherine Meur-Ferec: (UBO): *Climate change and geomorphological dynamics: the interweaving of spatio-temporal scales*

14:30 – 14:50 Miguel Ortega Sánchez (EAB): *Protection of coastal urban fronts against global warming*

14:50 – 15:10 Silvia Del Vecchio (UNIVE): *The role of dune system morphology on habitats development*

15:10 – 15:30 Carmen B de los Santos (UALG): *An ecosystem service approach to decision-making in the Ria Formosa (South Portugal)*

**April 19<sup>th</sup> 16:00 – 17:30**

**SESSION 3: ICZM AND ADAPTATION TO CLIMATE CHANGE (Chairperson Prof. Carmen B de los Santos)**

16:00 – 16:30 Amel Chaffai (EAB): *An overview about the usefulness of bio monitors and biomarkers in monitoring marine pollution*

16:30 – 16:50 Luca Bellucci (EAB): *Study and monitoring of salt marsh environments threatened by the effects of climate change*

16:50 – 17:10 Mohammed Achab (UM5R): *Contribution of earth observation data in the analysis of the dynamics evolution of the littoral of Tangier bay: impact of anthropogenic factors on its evolution*

17:10 – 17:30 Roberto Pastres (UNIVE): *Tools for supporting the adaptation of aquaculture to Climate Change*

**April 19<sup>th</sup> 17:30 – 19:00**

**Networking Session - Poster Session**

**Day 3**

---

**April 20<sup>th</sup> 09:00 – 11:00**

**SESSION 4: COASTAL ZONE MANAGEMENT IN MOROCCO: MAIN ISSUES AND SCOLAMAR CONTRIBUTION (Chairperson Prof. Abderrahman AIT FORA)**

09:00 – 09:30 Justine RODDIER (UBO): *The Scolamar project*

09:30 – 10:00 Echarfaoui Hassan (UIT): *Master's degree "Climate change" at Ibn Tofail University. Training curriculum and employment integration prospects.*

10:00 – 10:30 Amel Chaffai (EAB): *"IT tools to make courses more attractive for students"*

10:30 – 11:00

**April 20<sup>th</sup> 11:30 – 13:00**

**SESSION 4: COASTAL ZONE MANAGEMENT IN MOROCCO: ROUND TABLE WITH STAKEHOLDERS (Chairperson: Prof. Bouchta EL MOUMNI)**

Invited speakers: Karim Hilmi (INRH), Amor Fouad (National Focal Point Erasmus Plus-Morocco), Maarouf Majida (ANDA), Chehbouni Ghani (IRD, Morocco), Kamil DRH TanagerMed (TMSA) Hassan AYAD société RIMAL DRAPOR Groupe SATRAM



Scientific Committee:

Abderrahman AIT FORA	University of Kenitra (MA)
Abdellah AMMAR	University of Rabat (MA)
Fidel ECHEVARRIA	University of Cadiz (ES)
Bouchta EL MOUMNI	University of Tanger (MA)
Catherine MEUR FEREC	University of Brest (FR)
Roberto PASTRES	University of Venice (IT)
Rui SANTOS	University of Algarve (PT)
Bendahhou ZOURARAH	University of El Jadida (MA)

Organizing Committee:

AIT FORA Abderrahman FSK  
CHAKIRI Said FSK  
ECHARFAOUI Hassan FSK  
TOUAHNI Raja FSK  
BOUABDLI Abdelhak FSK  
BEJAJI Zohra FSK  
BENMOHAMMADI Aicha FSK  
BENAMMI Mohamed FSK  
EL HMIDI Fatima FSK  
LAMANE Houda FSK  
NAOUI Basma FSK

