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## WADIS-MAR Final conference

### International Workshop on sustainable water resources management in arid and semi-arid Regions

Sassari, Italy, 16 and 17 June 2016

Venue: University of Sassari

#### Format

The event will be structured into four phases: (1) a first session where the WADIS-MAR project achieved results will be presented and will be included within the context of integrated regional studies on water management; (2) institutional stakeholders and experts will be invited to split into groups for an interactive session of deep analyses of the different perspectives regarding water management issues; (3) a parallel meeting to identify common issues and possible future strategies of collaboration between the Academia and Development intervention projects (4) general overview of the results of the discussion of the previous day with new approaches on water management and desertification to celebrate the World Day to combat desertification.

#### Conference Schedule

Day 1

**8:30 – 9:00**

Registration

**9:00 – 9:20**

Welcome address

**Pier Paolo Roggero** (*Director NRD-University of Sassari, Italy*)

..... (*Representative of the European Union*)

**Granmenos Mastrojeni** (*Ministry of Foreign Affairs and UNCCD National Focal Point, Italy*)

**Wafa Essalhi** (*Chair of DesertNet International (DNI) and ICoN SLM, Tunisia*)

**Wail Benjelloun** (*UNIMED President, Rome*)

#### **Session I: WADIS-MAR project and sustainable water management issues in arid regions**

The aim of the session is to learn from the WADIS-MAR project for an analysis of sustainable water management issues in arid regions presented by relevant representatives of scientific community.



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**Chairs: Giuseppe Enne** (*President of the WADIS-MAR Scientific Committee, NRD-University of Sassari, Italy*), **Giorgio Ghiglieri** (*Project Coordinator of the WADIS-MAR Project, University of Cagliari and NRD-University of Sassari, Italy*) and **Giovanni Sistu** (*Chief Executive of Ente Nazionale Acque Sardegna - ENAS*)

**09:20 – 09:40**

**Giorgio Ghiglieri:** (*University of Cagliari and NRD-UNISS, Italy*) Water harvesting and Agricultural techniques in Dry lands: an Integrated and Sustainable model in MAghreb Regions Project - WADIS-MAR: Achievements, Activities

**09:40 - 10:00**

WADIS-MAR Video presentation

**10:00 – 10:20**

**Giovanni Barrocu** (*University of Cagliari, Italy*) Drought Management in Coastal Area.

**10:20 – 10:40**

**Andrew H. Manning** (*U.S. Geological Survey, Colorado*) Potential effects of climate change on groundwater recharge and quality in arid intermountain basins.

**10:40 – 11:00**

**Rudy Rossetto** (*Sant'Anna School of Advanced Studies, Pisa, Italy*) Managed Aquifer Recharge as a Solution to Water Scarcity and Drought: the experiences of MARSOL EU-FP7 project.

**11:00 - 11:15 coffee break**

**11:15 – 12:00**

Poster Session: WADIS-MAR outcomes

- *Managed Aquifer Recharge (MAR) Systems for integrated groundwater management in arid regions (Tunisia and Algeria)*
- *Oued Biskra Inféro-flux aquifer (Algeri): 3D Hydrogeologia model and groundwater flow modelling*
- *The SWAT model to assess hydrological processes in arid environment (SE Tunisia)*
- *Geochemical and isotopic investigation in Zeuss-Koutine and Jeffara Mio-Plio-Quaternary aquifers: Suitability for domestic and agriculture use*
- *Methodological approach for the three-dimensional hydrogeological model in the Biskra and Batna region (Alpine Nappe, NE Algeria) and Dahar-Jeffara (southern Tunisia)*
- *Implementing best agricultural practices in watersheds of wadi Oum Zessar (Medenine, Tunisia) and wadi Biskra (Biskra, Algeria)*
- *Weather stations and agrometeorology network*
- *Rehabilitation of Water Harvesting Techniques (WHT), Tunisia study site*
- *Hydrochemical and Isotopical characterization of the Oued Biskra watershed (Algeria) and Oued Oum Zessar watershed (Tunisia)*
- *South-South exchange of experiences*
- *Land Degradation and desertification Dynamics – Remote and Proximal Sensing Approach*



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**12:00 – 12:20**

**Dirk Raes** (*KU Leuven, Division of Soil and Water Management, Belgium*) Potential of AquaCrop to improve crop water productivity in water scarce regions.

**12:20 – 13:00**

Lesson learnt and open discussion

**13:00– 14:30 Lunch**

**Session 2: Addressing water management in dryland: an interactive session facilitated through Metaplan techniques**

The aim is to discuss the insights generated by the WADISMAR project and other case studies which are relevant for sustainable water management in arid Regions and provide recommendations

14:30 – 17:00 Parallel Session Room 1

14:30 – 17:00 Parallel Session Room 2

17:00 – 17:30

Results from the sessions

17.30

Conclusion

**Session 3: Special Meeting of the Chancellors of the Universities of the Mediterranean Countries at the University headquarter**

The aim of the session is to identify common strategies among Universities in the field of water management, desertification, training and development cooperation.

**Day 2: WAdis-MAR to celebrate the World Day to combat Desertification**

The aim is to trigger new collaborative pathway among scientists, stakeholders and the Mediterranean Universities Union (UNIMED) to contribute to achieve the 6th Sustainable Development Goal set by the United Nations: "Ensure availability and sustainable management of water and sanitation for all".

Chair: Pier Paolo Roggero (*Director NRD-University of Sassari, Italy*)

**9:00 – 9:20**

**Pier Paolo Roggero** (*Director NRD-University of Sassari, Italy*) Recommendations from the previous day

**9:20 – 9:40**

**Daniel Tsegai** (*United Nations Convention to Combat Desertification – UNCCD, Germany*)  
Drought risk mitigation: key pillars, management approaches and policy options

**9:40 – 10:00**

**Gaia Checcucci** (*Italian ministry of the environment, Italy*) Policies and actions of the Italian ministry of the environment for water protection and desertification in Italy **TBC**



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**10:00 – 10:20**

**Giuseppe Scarascia Mugnozza** (*Tuscia University, Italy*) Forestry / conservation / water storage

**10.20 – 10:40 Coffee Break**

**10:40 – 11:00**

**Pietro Laureano** (*UNCCD and IPOGEO, Italy*) Water in arid and desert ecosystems

**11:00 – 11:20**

**Grammenos Mastrojeni** (*Ministry of Foreign Affairs -MAE and UNCCD National Focal Point, Italy*) Water and International Security

**11:20 – 12:30**

Open discussion

**12:30**

Signature of declaration of intents among Universities

**13:00**

Conclusion

**13:00 LUNCH**

**16:00 – 20:00 Cultural Evening to celebrate the World Day to combat desertification**



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