

ESA – SEMIDE / EMWIS				
TIGER Capacity Building Facility - Exploitation of Earth Observation for Water Management in the Mediterranean				
ESRIN December 3 rd – 5 th 2012				
Period	3 November 2012 Monday	Lecturer	4 November 2012 Tuesday	Lecturer
9:00 - 10:30	Introduction & Objectives of the workshop EO for Water Management (TIGER initiative) - L	Eric MINO (EMWIS) Benjamin Koetz (ESA)	Irrigation management: Case studies Egypt and Morocco Crop monitoring: case study Tunisia - D	Wim Bastiaanssen (TUD)
10:30 – 11:00	Coffee Break		Coffee Break	
11:30 – 13:00	Fundamentals of Optical Remote Sensing - L ESA missions, EO data access - L	Wim Bastiaanssen (TUD) Frank Annor (TUD)	Water Productivity Score Mediterranean region: Methods and Analysis – D FieldLook Egypt	Wim Bastiaanssen (TUD)
13:00 – 14:00	Lunch		Lunch	
14:00 – 15:30	Data components for water management and crop monitoring, incl. water bodies and water levels Demonstration / Exercise – D Application: monitoring of small water bodies	Wim Bastiaanssen (TUD) Frank Annor (TUD)	Demonstration Water Balance Monitoring System – D Elements: surface and groundwater balance; hydrological modeling;	Massimo Menenti (TUD)
15:30 – 16:00	Coffee Break		Coffee Break	
16:00 – 17:30	Examples of rainfall, evapotranspiration, soil moisture, lake levels, land use, water accounting – L Elements: Land cover, crop mapping; surface energy balance	Wim Bastiaanssen (TUD)	GlobWETLAND Project – L Tool demonstration – D Land cover change and water cycle regimes in more than 200 wetlands in the Mediterranean	Mark Paganini (ESA) Katrin Weise (JOP)
17:30 – 18:00			Training Evaluation by Participants	Massimo Menenti (TUD)

L: Lecture, D: Interactive Demonstration

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**Exploitation of Earth Observation for Water Management in the Mediterranean
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Period	5 November 2012 Monday	
9:00 - 10:30	<p>Water management in the Mediterranean Inaugural presentation by Walter MAZZITTI, EMWIS Steering Committee President</p> <p>Discussion on EMWIS-ESA collaboration</p> <ul style="list-style-type: none"> - reminding on capacity building proposal (2010) - revising EMWIS-ESA concept note - overview of possibilities for collaborations 	<p>Walter Mazzitti (EMWIS)</p> <p>Jauad El Kharraz (EMWIS), Benjamin Koetz (ESA)</p>
10:30 – 11:00	Coffee Break	
11:30 – 13:00	<p>National needs & Gap Analysis</p> <ul style="list-style-type: none"> - On-going activities in Tunisia, Lebanon, Egypt, Morocco and Jordan <p>Ongoing NASA – World Bank project: Regional Coordination on Improved Water Resources Management and Capacity Building</p> <ul style="list-style-type: none"> - NASA Water Information System Platform WISP 	<p>Atef Bel Hadj Ali (CRTEAN/Tunisia)</p> <p>Amin Shaban (CNRS/Lebanon)</p> <p>Belal El-Leithy (NARSS/Egypt)</p> <p>Ahmed Er-raji (CRTS/Morocco)</p> <p>Maria Khirfan (RJGC/Jordan)</p>
13:00 – 14:00	Lunch	
14:00 – 15:30	<p>Future EMWIS projects and collaboration</p> <ul style="list-style-type: none"> - UfM project proposal on water information systems - The use of water accounts SEEAW & ECRINS to optimize water balances at the river basin level (Jucar project) - EU research activities related to earth observation for environment - Discussion on the way forward 	Eric Mino (EMWIS)