



The Arab Center for
the Studies of Arid
Zones & Dry Lands
(ACSAD)
Damascus

Workshop on Decision Support Systems (DSS) for Soil and Water Resources Management

Rabat, Morocco 16-18 January 2007



The Federal Institute
for Geosciences &
Natural Resources
Hannover

| PROGRAM | Tuesday 16 . 0 1 . 2 0 0 7 |
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| 8:30 | Hotel transfer |
| OPENING CEREMONY | |
| 9:00 – 9:45 | <i>BGR representative</i> <i>ACSAD representative</i> |
| 9:45 - 10:30 | <i>Monsieur le Secrétaire d'Etat chargé de l'Eau-Morocco</i> Coffee Break & Registration |
| INTRODUCTION | |
| 10:30 – 11:00 | Why do we need a Decision Support System for water resources management in the Arab region? A. Droubi, ACSAD ACSAD-BGR Technical Cooperation Project for the development of a Decision Support System J. Wolfer, BGR |
| I - DSS as a tool for implementing IWRM | |
| 11:00 – 11:30 | WEAP21 – Software for water evaluation and planning, overview, new modifications, long term perspective J. Sieber, Stockholm Environmental Institute, USA |
| 11:30 – 12 :00 | DSS-Developments in the Neckar and Danube Basins – RIVERTWIN & GLOWA DANUBE PROJECTS R. Barthel, Stuttgart University, Germany |
| 12:00 – 12:30 | Sustainable management of available water resources with innovative technologies .SMART Research program: Integrated water resources management in the lower Jordan valley W. Ali, Karlsruhe University, Germany |
| 12:30 – 13:00 | GLOWA Jordan river project, background and design of WEAP and other models J. Sieber, H. Hoff Stockholm Environmental Institute, USA/ Sweden |
| 13:00 - 14:00 | Lunch Break |
| 14:00 – 15:00 | Technical Cooperation Project for the development and application of a Decision Support System in two pilot areas: A) Zabadani Basin, Syria M. Al-Sibai, J. Wolfer, M. Huber, A. Abdallah ACSAD /BGR B) Berrechid Basin, Morocco K. El Hajji, J. Filali Moutei, Morocco |
| 15:00 -15:30 | Comparison of methods to estimate groundwater recharge rates in the Zabadani Basin - the WEAP approach vs. soil-based simulation models V.Hennings, BGR, Germany |
| 15:30 -16:00 | Coffee Break |
| 16:00 -16:30 | Soil parameters required for modeling water and pollution movement in the soils of the Zabadani basin A. Arslan, ACSAD |
| 16:30 – 17:30 | Country Papers (Algeria, Egypt ,Jordan ,Iraq) |

| Wednesday 17 . 0 1 . 2 0 0 7 | |
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| 8:30 | Hotel transfer |
| II – DSS-Related case studies | |
| 9:00 – 9:30 | DSS development and application in California, USA J. Sieber, Stockholm Environmental Institute, USA |
| 9:30 - 10:00 | Use of DSS for studying the strategy of small agriculture stakeholders for the conjunctive use of surface and groundwater in Tadla area , Morocco . A. Hammani & M. Kuper, Morocco |
| 10:00 - 10:30 | Development of a DSS based on groundwater modeling in the middle Draa valley, Morocco (IMPETUS-PROJECT) S. Klose, B.Reichert, Bonn University, Germany |
| 10:30 - 11:00 | DSS-Design of the Upper Danube basin (Glowa - Danube - Project), linkage of 16 submodels and its application R. Barthel, Stuttgart University, Germany |
| 11:00 – 11:30 | C o f f e e B r e a k |
| III -Watershed management | |
| 11:30 – 12:00 | Modeling Approach for Solute Transport in Groundwater: The Tadla Irrigation Case Study; Morocco. M. Faouzi & A. Larabi, Morocco |
| 12:00 -12:30 | Strategy for water resources conservation of Souss-Chtoukas Plain ,Morocco: K. Makroum, Morocco |
| 12:30 -13:00 | Case Study R. Ragab, UK |
| 13:00 -14:00 | L u n c h B r e a k |
| IV - Water policy and planning using DSS | |
| 14:00-14:30 | Present and future water supply and demand in Saudi Arabia A. Turbak, Saudi Arabia |
| 14:30-15:00 | Use of DSS in water resources planning, case study of master plan of Lookkos, Morocco A. Mahboul, Morocco |
| 15:00-15:30 | Optimizing water resources management of lower Moulouya ,Morocco A. Tabit, Morocco |
| 15:30-16:00 | C o f f e e B r e a k |
| 16:00-17:30 | Country papers continued Jordan, Libya ,Palestine , Mauretania |
| Thursday 18 . 01 . 2007 | |
| 8:30 | Hotel transfer |
| 9:00-10:30 | Country papers continued Syria, Sudan ,Tunisia ,Yemen |
| 10:30-11:00 | C o f f e e B r e a k |
| 11:00-12:00 | General discussion and closing |