



**14th Conference of the
International Soil Conservation Organization (ISCO)**

**Water Management and Soil Conservation
in Semi-Arid Environments**

Marrakech, Morocco, May 14-19, 2006

Organizers
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Programme

Proceedings

14th Conference of the International Soil Conservation Organization (ISCO)
Water Management and Soil Conservation
in Semi-Arid Environments, Marrakech, Morocco, May 14-19, 2006

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Keynote presentations

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Keynote presentations

Progress in the development of natural and international legal frameworks for the conservation and sustainable use of soil

Ian Hannam, Environmental Law and Policy Specialist, Environment and Agriculture Unit, Beijing China

Place des petits barrages dans la mobilisation des eaux de surface et dans la lutte contre l'érosion au Maghreb et au Moyen Orient

Jean Albergel, Directeur de recherche IRD, Montpellier France, Abdel Aziz Merzouk, Professeur à l'IAV, Maroc

Evolution des Techniques Antiérosives dans le Monde

Eric Roose, Directeur de recherche au centre IRD de Montpellier, France

Conserving Soil Resources: Perspectives on multifunction-multiuse approaches

José Luis Rubio, President of ESSC, Centro de Investigaciones sobre Desertificación-CIDE, Valencia, España

Total Soil Quality Assessment under Eroded and Restored Conditions

Samir A. El-Swaify, Emeritus Professor, Department of Natural Resources and Environmental Management (NREM), University of Hawaii at Manoa, Honolulu, Hawaii 96822 USA

Le sylvo-pastoralisme et la gestion durable des écosystèmes naturels arides

Mohamed QARRO, Ecole Nationale Forestière (ENFI), Maroc

Soil conservation and the international environmental conventions

Julian Dumanski, Consultant, Sustainable Land Management, Ottawa, Canada

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**Water Management and Soil Conservation
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Oral presentations

Session 1: Water management

Session 2: Desertification

Session 3: Agropastoral systems

Session 4: Quantifying erosion

Session 5: Erosion process & control

Session 6: Enhancing soil quality

Session 7: Soil degradation

Session 8: Economic, social aspects

Session 9: RGCES AUF

Session 10: Fire impact

Session 11: Isotopes

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Session 1: Water management

Oral presentations

Andrieux-Etats Surface & Infiltrabilité Sols Méditerranéen Cultivé-France

Ben Nacib-indicateurs d'état du fonctionnement hydro-structural -Tunisie

BESSENASSE -Dessalement Eau Mer-Algérie

Bruggeman-Watershed Modeling-Syria

Cherkaoui-Pollution Naturelle Nappe Souss-Maroc

EIAlaoui-Gestion de Sécheresse-Maroc

Fares-Advances Water Management Capacitance Water Sensors-USA

Frot-Origin of Rain for Recharge of Aquifer-Belgium

Hamdi-Modélisation Utilisation Eau-Tunisie

Hill-Traditional Water Mgt Tunisia-UK.doc

Hussein-Role MicroCatchment Water Harvesting-Syrie ICARDA

Ismail-Effect Tillage on Water Distribution-Egypt

Ismaili-Nitrogen & Water Use Efficiencies by Wheat-Maroc

Ismail-Surge Flow Irrigation-Egypt

Johnston-RECENT TRENDS AND INNOVATIONS IN WATER MANAGEMENT-Newzealand

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Session 1: Water management

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Klose-Ground water Draa-Allemagne

Krim-Ecobilan Valorisation Eau-Maroc

Lamachere-Apports en Eau dans les Lacs Collinaires-Tunisie

Mebarki-Cartog Bilan Hydro-Algérie

Mirjat-Trickle Irrigation-Pakistan

Mirjat-Water Conserv Tech-Pakistan

Mohtar-Modeling Soil Water Movement-USA

Mohtar-Web Based GIS Hydrological Modeling-USA

Nunes-Sensitivity Water Ressources Soil Erosion Climate Change-Portugal

Obda-Hydrosystèmes Vallées Rif & Moyen Atlas-Maroc

Ouessar-SWT Model-Tunisia

Rouhipour-Fluctuations Soil Moisture-Iran

Shivamurthy-Impact of Watershed Treatment on Ground water-India

Tubeileh-Olive Tree water mgt-ICARDA

Van de Kwast-Predicting Medium Scale Soil Moisture Patterns-Morocco

Wesemael-Maximizing Water Availability of Rainfed Treecrops-Belgique

Ziadat-GIS Water Harvesting Sustainability-Jordan

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Session 2: Desertification

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Farooq-Role of Local Bodies in Implementing the UN Convention to Combat Desertification in Pakistan-Pakistan

Agoussine-Irrigation & Salité des Sols Palmeraie Skoura-Maroc

Chakroun-Modelisation Desertification MEDALUS-Tunisie

DeVanssay-CNULCD Cadre Implication Scientifiques Sols-UNCCD

Ghanam HCEFLCD-Mie Oeuvre PAN LCD-Maroc

Machouri-Subéraies Histoire Dégradation-Maroc

Nurhussen-Watershed Mgt impact on Desertification-Ethiopia

Pla-Land Use, Hydrology and Desertification-Spain

Yassin-Monitoring Desertification Oued Mird-Maroc

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Session 3: Agropastoral systems

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Farooq-Agro-Pastoral Systems in Cholistan-Pakistan

Faulkner-Changing vulnerabilities Rapide Land Use Almeria-UK

Garcia Estríngana-Water Interception and Stemflow-Spain

Haboudane-Indicateurs Spectraux Dégradation Sols Milieux Semiarids-Canada

Ikpe-Rainfall, Livestock & Nutrient Cycling-Niger

Jaafar-Impact Changement Occupation Terres Terrains Marginaux Palmeraie Fezouta-Maroc

Jaafar-Impact Changement UT sur Terrains Marginaux-Maroc

Jimenez-Evolution Soil Cover Shrub Termic Sludge

Kanoun-Exploitation des Ressources Agropastorales-Algérie

Naffa-techniques traditionnelles de gestion des ressources eau et sol-Maroc

Naggat-Syst Gestion Sylvopastorale & CES-Maroc

Roth-Biomass Dynamics under Pastoral Conditions & Water Balance-Allemagne

Sande Fouz-Soil Nitrate in Agroforestry catchment-Spain

Sanjari-Grazing Mngt effects on Groundcover Runoff-Australia

Thakur-Agroforestry Tree Species for Drought Tolerance-India

Wilson-Impact of Land Use on Soil-Argentina

Yemefack-Soil dynamics in shifting Agriculture-Cameroon

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Session 4: Quantifying erosion

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Achite-Erosion Hydrique en Algérie Nord-Algérie

Al Ali-Caratérisation Conductivités Surface Amgt Banquettes-Tunisie

Antoni-Modélisation Erosion à Deux Echelles-France

Asadi-Rainfall & Runoff During Erosion Events-Iran

Ayoubi-Evaluation of Morgan Finney Erosion Model GIS-Iran

Bienes-Quantification of the loss of fertility by water erosion-Espagne

Blavet-Genèse Erosion en Milieu Viticole-France

Bochet-Plant Soil Water Erosion at Microscale-Espagne

Boudjemline-Infiltration & Simulation Pluie-Algérie

Bradford-Spatial & Temporal Relationships of Erosion-USA

Brazier-Effect Spatial Scale on Nutrient Dynamics-UK

Brazier-Monitoring Water Sediment & Nutrient Flux-UK

Castillo-Modeling of Effect of Intrenal Rainfall on Soil Erosion-Spain

Cerdan-Regional Erosion Risk Assesment-France

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Session 4: Quantifying erosion

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Chegour-Indicateurs Rt Erosion Simulation Pluie-Maroc

Cohelo-Bedload Origin Burned Catchement-Portugal

Dabney-Application of RUSLE2 to Pasturelands-USA

Dakak-Evaluation Azote Nitrique Lixivable-Maroc

Elahcen-Modélisation du transport solide sur le bassin versant-Algérie

Fouz-Assesment Soil Erosion Rates at Field & Catchement Scales-Espagne

GÖL-Relationships Land Use & Moisture Contents-Turquie

Gristina-Cover and management factor for Sicilian vineyard systems-Italie

Joundi-Empirical Models of Sediment Yields in Reservoirs-Belgique

Laloy-Effect Destruction Burial Dates CV on Runnof Erosion C-Belgique

Le Bissonnais-Effets Echelle Variabilité Erosion Parcelle BV-France

Lobo-Ranifall Variability Indices for Rainfall Erosivity-Venezuela

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Session 4: Quantifying erosion

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Lynden-Mapping the unknown-Hollande

Michael-Climate Change & Soil Erosion-Allemagne

Nichols-Sediment yield from small watersheds-USA

Ollesch-Integrated Winter Erosion Model-Russia

Puech-Images Télédétection Erosion-France

Quinton-Spatial Erosion Predictions-UK

Rafla-Dtives CAR PAP Contrôle Erosion-Tunisie

Romkens-Rcent Dvpt in RUSLE2-USA

Sidorchuk-Stachastic mechanics of Erosion-NewZeland

Simonneaux-Bilan Erosion Rheraya-Maroc

Tribak-Cartographie & Evaluation Erosion-Maroc

Zeyen-Modeling Soil Erosion by Water Draâ-Allemagne

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Session 5: Erosion process & control

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Al Ali-Fonctionnement Hydro sédimentaire Amgt Bnquettes AE Courbes Niveau-Tunisie

Al Awadhi-Sand Drif Potential in Desert-Kuwait

Al Dousari-Yardangs in Um Al Riman-Kuwait

Albergel-Erosion Ravinante & Bilan Sédimentaire-France

Andramampianina-Erosion en Lavaka Processus & Utilisation-Madagascar

Bajja-Vulnérabilité à l'Erosion Terriens Vallées Oued Labid-Maroc

Bannari-Synergie SIG Télédétection Carto Erosion-Canada

Ben Chaabane-Influence MED sur CV & Rt& Erosion- Tunisie

Ben Chaabane-UT & Qualité des sols- Tunisie

Bersma-Cartographe Erosion Eoliene Sudan-Hollande

Cai Zhifa-Research on Conservation Farming Syst-Chine

EL KHALILI-Erosion ravinaire sur sols à argiles gonflantes-Tunisie

EIBerhiti-Collisions Dunes Barkhanes-France

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Session 5: Erosion process & control

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Ezzahiri-Forêt & Lute Antiérosive-Maroc

Fares-Vegetation Filters Control Loadings Sediment-USA

Ghadiri-Flow & Erosion Control by Vegetated Strips-Australie

Ghaffari-Remote Sensing of Gully Network-Morocco

Golabi-Ecosystem Approche to Restoring S&W-USA

Hassid-Réhabilitation sols montagne-France

Kessaissia-Approche Maillage Estimation Erosion-Algérie

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KHAMSOUK-Comportement hydrique sous simulations de pluies-MARTINIQUE

Langlois-Dvpt Modèle Localisant Versants Susceptibles Ravinement-Canada

Langlois-Dvpt of an Erosion Reduction Mangement Strategy-Canada

Loukili-Intérêt Carte Aptitude Terres LAE DRS Fruitière-Maroc

Masri-Causes of Gully Erosion in Olive Orchards-Syria

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Mazour-Analyse Aménagement Antierosif Barrage Hammam-Algérie

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Session 5: Erosion process & control

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McCool-Residue Characteristics for Wind & Water Erosion Control-USA

Movahhed-Impact of Straw Mulch on Runoff & Productivity-Iran

Nadiradze- Erosion as Reason of Landslides-Georgia

Podhrazska-Evaluation of Wind Erosion Risks in GIS-Czech

Rieke Zapp-Monitorin Headcut Migration Rangeland USA-Suisse

Skidmore-Simulation of wind-USA

Tagata-Erosion Control Using Soil Natural Microorganisms-Japan

Van-Factors Influencing Stochastics of Near Surface Wind Speed-USA

Yamakoshi-Effect Rapid Vegetation to Prevent Severe Erosion-Japan

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Session 6: Enhancing soil quality

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Basaran-Changes LandUse CV Soil Properties-Turquie

Benabdeli-Amélioration Qualité Sols Sciure Bois- Algérie

Bienes-fertility Loss by Water Erosion-Spain

Castillo-Reforestation_Soil quality-Spain

François- Impact of Calliandra Fallow -Cameroon

Gountit-Analyse Geospatiale Fertilisation Azotee-Canada

Grundy-Salinity prevention-Australia

Hoorelbeke-Long terme Impact Cultivation Soil Propoerties-Syria

Jahangir-Tillage Effect Soil Properties-Bangladesh

Karyotis-Fertility decline Crete-Greece

Khaledian- Direct Planting Versus Conventional Tillage-France

Klymenko-Rehabilitation soil by phitomelioration-Ukraine

Makhamreh-Spectral Reflectane for Estimating Soil Quality-Allemagne

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Session 6: Enhancing soil quality

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Mamedov-Effect of Salinity Sodicity Texture on Aggregate Stability-USA

Manakhova-Rehabilitation of Degraded Irrigated Chernozems-Russie

Marques-Bare Soil Rehabilitation-Espagne

Mrabet-Impact Tillage Systems Surface Soil Properties-Maroc

Mueller-Field methods-Germany

Pajares-Changes in Soils Chemical Properties by Management-Espagne

Prikhodko-Quantitative Assesment of Irrigated Soils Degradation-Russie

Rastegari-Mngt Conservation Utilization Saline Soil-Iran

Razafindrakoto-Jachères Légumineuses & Réduction Erosion-Madagascar

Remini-Remontée en eau-Algérie

So-RootZone WSB Model for Sustainable Application Saline Land-Australie

Thierfelder-Conservation agriculture-Southern Africa

Vidal Vázquez-Soil Surface Roughness Increase by Residue-Espagne

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Session 7: Soil degradation

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Barcnas Moreno-Fungi & Bacteria & Erosion-Espagne

Bernoux-Erosion & Soil Carbon Sequestration-France

Bessenasse-Modélisation Envasement Retenues-Algérie

Boufaroua-Envasement LACs Colinaires-Tunisie

Bouloud-Eridibilité et Eutrophisation Barrage Abdelkrim-Maroc

Carlos-Global PCA & Hidalgo-México

Carmen-Applying Tracer Techniques-Romania

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Chandio-Management Saline Water Upcoming into Fresh Ground Water-Pakistan

Cherifi-Dynamique Matière Suspension Période Crues Benelouidane-Maroc

Desjardins-Soil C sequestration & Climate Change-Canada

Fernande-Relationship Carbon Budget Forest Fire-Espagne

Hachicha-Utilisation Eaux Salées & Risques Salinisation-Tunisie

He-Extremely 137CS 210Pb eservoir deposit Destruction CV-Chine

Jordan-Sewage Sludge Application Soil Reclamation Quarries-Espagne

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Session 7: Soil degradation

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Lal-Soil Carbon Sequestration Through Water Management-USA

Martínez Mena-Effect of Land Use on Soil Erosion & Organic C-Espagne

Marzougui-Alluvionnement des Barrages et Erosion-Tunisie

Mayor-Indicators of Landscape Function to Identify Degradation-Espagne

Motuzova-Technogenic Desertification of Some Polluted Steppe Soils-Russie

Njomgang-Orgnic Carbon and nutrients dynamics in shifting agriculture-Cameroon

Rienzi-Enrichment Rate Org C Interill Erosion & CV-Argentine

Roose-UT & Stock C, Ruissellement, Erosion-France

Sanchez-Soulble Minerals in Soils affected by Sulphur Minig-Espagne

Santana-Seasonal dynamics in Enzyme activity-Canary-Espagne

Smith-Impact Climate Change Carbon Agricultural Soil-Canada

Stott-Loss of Dissolved Organic Carbon from Watershed-USA

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Session 8: Economic, social aspects

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Aderghal-Tech CES Plateau Central Tradiion ou Tendance-Maroc

AlAli-Economical Feasibility for the Utilization of Groundwater Model-Kuwait

Blum-New Research Concept Ecolog Techni Econ Socio Leg Cult-Autriche

Critchley-Farmer Innovation in Ugana-Hollande

Defrijn-Farmers Decision for Soil Conservation-Syria

Dhyani-Multiobjective Decision System for Efficient Farming Syst-Inde

Dilly-Key Issues in Sensitive Regions Europe-Allemagne

Ekhlass-Conservation Environmental Issues Rvialatizing Iraqi Agriculture-USA

Heuser-Legal instruments of soil protection-Germany

Haregeweyn-Assessment of nutrient export from Agricultural watershed-Ethiopia

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Ian Hannam-Law & Policy To Manage Degradation PRChina-Australie

Jamartin-Economic Valuation of Land Use Changes-Indonésie

Klik-Agricultural Decision for S&W Conservation-Austria

Liniger-SWC Global Change Millenium Dvpt Goals WOCAT-Suisse

Nafaa-Femmes Rurales Dvpt Humain-Maroc

Nataraju-Stakeholder Participation in Sustainable Watershed Dvpt-Inde

Ouchkif-Dvpt Rural Participatif Moyen Atlas-Maroc

Ram Babu-Socioeconomic & Institutional Aspects of SW Conservation-Inde

Singh-Impact Participatory Watershed Management-Inde

Turkelboom-Livelihood & Land Degradation-Syria ICARDA

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Session 9: RGCES AUF

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berga_aménagement des terres de culture par les cuvettes- Tunisie

Diallo-RooseGestion de l'Eau et des Sols sur Toposéquences- Mali

Baccari-Efficience des banquettes sur l'érosion des terres-Tunisie

Koenig agroforesterie traditionnelle à l'agriculture écologique-Allemagne

Razafindrakoto- Efficience des jachères légumineuses arbustives- Madagascar

DeNoni-de la Lutte Antiérosive au Profit Economique-France

Zougmore Economic Benefits of Combining Soil and Water Conservation-Burkina

Mazour Techniques traditionnelles de conservation eau et sol- Algérie

Hamoudi aménagements de DRS - Algérie

Karkouri techniques de gestion conservatoire des sols et des eaux-Maroc

Chaker techniques de CES dans le massif de Boukhouali - Maroc

Ratsivalaka Pratiques paysannes et gestion des sols- Madagascar

Andriamampianina l'érosion en Lavaka- Madagascar

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Session 9: RGCES AUF

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Arora-Indigenous Technical Knowledge for Soil and Water- INDIA

Laouina-Spatialisation de la Gestion Conservatoire des eaux et des sols-Maroc

Diallo-Gestion Eau et Sols Toposéquences-Mali

Morel stratégies traditionnelles de gestion conservatoire-France

Hill Traditional agricultural water management in Tunisia-UK

Moeyersons-La Desertification et l'Efficacité des Contre-Mesures-Belgique

Roose - Efficacité des techniques traditionnelles de GCES-France

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Session 10: Fire impact

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Bryant-Laboratory Simulations Effect Various Fire Hydrophobicity-UK

Cerdà-LongTerm Effects of Fire on Soil Infiltration-Espagne

Craig-Spatial & Temporal Relationships Erosion-USA

Gonzalez-Effect Repeated Fires Soil Hydro Properties-Espagne

Keizer-EROSFIRE Project-Portugal

Lopez-Land Use Effect Post Fire Recovery Plant Cover-Espagne

Mayor-Use Indices Ecosystem Function Identify Levels Degrdaton-Espagne

Notario-Soil Solution Data After Wildfire Estimate Fire Severity-Espagne

Gonzalez-Effect Repeated Fires Soil Hydrological Properties-Espagne

Pierson-Erosion Following Fire Sagebrush Ecosystem-USA

Robichaud-Effectiveness Postefire Erosion Control Treatements-USA

Shakesby-Wildfire Impacts Soil Erosion Critical Review-UK

Townsend-A Review Impact Fire onh oil Erosion Tropical-Australia

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Session 11: Isotopes

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Benmansour-Use of Fallout Radionuclides to Estimate Soil Erosion-Maroc

Bernard_Assesment Soil Erosion Sediment Cs-Canada

Golosov-Application Radionuclide Tech Assessing Soil Conservatin-Russia

Hamid-Sédimentation Lagunes Cs137-Maroc

He_Extremely High 137Cs and 210Pbex Contents of Two Layers-China

Iroumé_Use of 7Be Measurements to estimate Soil Erosion-Chili

Mabit-Spatial Variability C137 MO-Canada

Nearing-Spatial Patterns of Erosion in Two Semiarid Watersheds-USA

Ritchie-Soil Redistribution and Fallout Radionuclide-USA

Schuller_Use of 137Cs to Evaluate Reduced Tillage-Chili

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T1P-**Al Salam**-Applicability Soil Aquifer Treatment-Kuwait

T1P-**Arbello**-Longterm Erosional Response Volanic Aridisols-Canary Espagne

T1P-**Farooq**-Sustainable Management Groundwater-Pakistan

T1P-**Khelifi**-Indicateurs de Mise Valeur Lac Collinaires-Tuinise

T1P-**Remini**-Foggara-Algérie

T1P-**Saloui**-Précisions sur Changements Climatiques & Ressources en Eau-Maroc

T1P-**Vona**-Water Res Mangement & Soil-Hungary

T2P-**Ahmadi**-Comparison ICD MICD Assesment Desertification-Iran

T2P-**Ait Hssaine**-Desertification Souss-Maroc

T2P-**Houyou**-Travail Sol dans Steppe Centrale-Algérie

T2P-**Jing** Li-Pattern of Desrtification Grass Land-China

T2P-**Rodriguez**-Factors Leading to Desrtification-Spain

T2P-**Safdar**-Remadial Measures Desertification-Pakistan

T2P-**Salamani**-Suivi Long Terme Ecosyst Steppiques Desertification-Algérie

T2P-**Sharma**-Effect Desertification on Livelihood-Nepal

T2P-**Zehtabian**-MEADALUS Methodology-Iran

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T3P-**Farooq**-GIS & Forest Developpement-Pakistan

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T3P-**Mora**-Changes in soil quality-Canary Espagne

T3P-**Ritchie**-Vegetation Cover Remote Sensing-USDA

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T4P-**Duchemin**-Modelisation Erosion Hydrique au Maroc & Canada-Canada

T4P-**Marquinez**-Soil Erosion Trend Analysis Using Landsat Imagery-Espagne

4

T4P-**Ram Babu**-Rainfall Intensity duration-India

T4P-**Yassin**-Applying RUSLE Forest land Central Plateau-Maroc

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T5P-**Ajorlo**-Reduction of Wind Erosion Impairments-Iran

T5P-**Amokrane**-Efficacité Structures Légères Lutte Contre ravinement-Algérie

T5P-**Dufkova**-Climate Change & Wind Erosion-Czech

T5P-**El Mahdad**-Gestion Eau et Erosion dans le Souss-Maroc

T5P-**Menjli**-Analyse Diachronique Ravinement-Tunisie

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T5P-**Moeyersons**-The role of mass movements in landscape-Belgique

T5P-**Pottyondy**-Complex Erosion Preventing Program-Hungry

T5P-**Salajegheh**-Wind Erosion in Khouf IRIFR.E.A Model-Iran

T5P-**Shiono**-Fine Sediment Transport Open Chanel-Japan

T5P-**Zlatic**-Effects Soil Mngt Sustainability Model-Serbia

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T6P-**Armas**-Soil organic carbon in fine particle-Canary Espagne

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T6P-**Berrahali**-Menace Salinisation Terres Agricoles Résidu Station-Algérie

T6P-**Hayno**-Temperature and Evaporation by Shading-Japan

T6P-**Jordan**-Sewage Sludge for Soil Reclamation-Espagne

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T6P-**Kossoumna**-Consrvation Fertilitie Sol par Amtg Parcelle-Cameroun

T6P-**Mirás Avalos**-Effect Soil Erosion on Soil Respiration-Espagne

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T6P-**Ouahmane**-Mycorhize & Rhéabilitation Milieu Dégradés Haut Atlas-Maroc

T6P-**Suleymanov**-Optimization Functions of Salted Soils-Russie

T6P-**Tchienkoua**-Ecosystem Nutrient Dynamics Short Fallow-Cameroun

T6P-**Vona**-Soil Nutrient Loss-Hungary

T6P-**Wang Dong**-Factors Analysis on Cropland Productivity-China

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Water Management and Soil Conservation in Semi-Arid Environments, Marrakech, Morocco, May 14-19, 2006

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T7P-**Falusi**-Environmental Changes & Soil Vegetation-Hangrie

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T7P-**Farooq**-Historical & Archeological Perspectives of Soil Degradation-Pakistan

T7P-**Falusi**-Vegetation of Canals-Hangrie

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T7P-**Hossain**-Browsing Scan on Cyclone Affected Plants-Bangladesh

T7P-**Maqboul**-Ecosystèmes Aquatiques Ouergha-Maroc

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T7P-**Raizada**-Occurence of Ethnobotanically Plant in Semiaride Ravines-India

T7P-**Remini**-Erosion & Envasement des Barrages-Algérie

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T7P-**Ruiz**-Degraded Soil Recuperation Program-Chilie

T8P-**Anthopoulou**-Land Degradation & Impact on Cultural Heritage-Greece

T8P-**Benamar**-Composante Humaine & Infrastructures du BV Bouregreg-Maroc

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T8P-**Ledermann**-On & Off Site Effect of SWC Integration Farmers-Suisse

T8P-**SORS**-Dégradation Patrimoine Hydraulique Bâti-France

T9 **Ha** Stratégies traditionnelles de gestion conservatoire-Vietnam

T9 **Tchotsoua** Stratégies traditionnelles de gestion de l'eau- Cameroun

T9 **Morsli** Erosion et effet des techniques culturelles- Algérie

T11 **Popa**-Use Fallout Radionuclides Estimating Ersoion-Romania

T11-**Aboutaher**-Magnetic & Isotopic Techniques Contribution Soil Stability-Maroc

T11-**Damnat**-Etude Erosion C137 NW-Maroc

T11-**Ritchie**-UsingfalloutCs137 Organic C-USA

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