

**United Nations/ Islamic Republic of Iran Regional Workshop on
the Use of Space Technology for Environmental Security,
Disaster Rehabilitation and Sustainable Development**

Tehran, Islamic Republic of Iran, 8 – 12 May 2004

Final Programme

Saturday, 8 May

0800 – 0915 Registration of Participants

0915 – 1015 **Opening Ceremony**

Chairperson: Mr. A. TALEBZADEH (Iran Space Agency)

- Statement by President of Iran Space Agency – Mr. Hassan SHAFTI
- Statement by UNOOSA – Mr. David STEVENS
- Opening Statement by H.E. Minister for Communication and Information Technology – Mr. Ahmad MOTAMEDI

1015 – 1045 Tea Break

1045 – 1230 **Keynote Presentations**

Chairperson: Mr. SAFAVI (Telecommunication Research Institute of Iran)

Rapporteur: Mr. P. TARIKHI (Iran Space Agency)

Mr. Ali Mohammad NOURIAN (Iranian Meteorological Organisation) – “Disasters, Meteorology and Weather”

Mr. Reza ARDAKANIAN (Ministry of Energy) – “Application of Satellite Imagery in Water Resources Development”

Mr. Sassan SAATCHI (Jet Propulsion Laboratory, California Institute of Technology, USA) – “Applications of Remote Sensing Data for Monitoring Natural and Man-made Environmental Hazards”

Mr. Bernard ALLENBACH (SERTIT, France) – “The International Charter Space and Major Disasters: Bam Earthquake”

Mr. David STEVENS (United Nations Office for Outer Space Affairs) – “The Use of Space-based Technologies: The Role of the United Nations Office for Outer Space Affairs”

1230 – 1400 Lunch

1400 – 1600 **Presentation Session 1 – Sustainable Development**

Chairperson: Mr. Talal DARWISH (National Centre for Remote Sensing, National Council for Scientific Research, Lebanon)

Rapporteur: Mr. Eltayeb Osman ADAM (Remote Sensing Authority, Sudan)

Mr. Abbas RAJABIFARD (Centre for SDIs and Land Administration, Department of Geomatics, University of Melbourne, Australia) – “Developing Spatial Data Infrastructure to Facilitate Data Sharing and Disaster Management”

Mr. N. HAJIZADEH ZAKER (National Centre for Oceanography – Ministry of Science, Research and Technology) – “Satellite Data Applications for Oceanography and Sustainable Development of Marine Environments”

Mr. F. BARZEGAR (NGO) – “Satellite-Data Based Studies of Natural Disasters in Iran”

Mr. S. MALAVIYA and Mr. Bal KRISHNA (GIS Development, India) – “Geomatics in Asia”

1600 – 1630 Tea Break

1630 – 1800 **Discussion Panel 1 – Building Upon Success Stories and Limitations for Further Use**

Chairperson: Mr. A. TAVAKOLI (Amir Kabir University of Technology, Iran)

Rapporteur: Ms. Ghaida ABU-RUMMAN (Royal Jordanian Geographic Centre, Jordan)

Mr. Abd-Alla GAD (National Authority for Remote Sensing and Space Sciences – NARSS, Egypt)

Mr. Talal DARWISH (National Centre for Remote Sensing, National Council for Scientific Research, Lebanon)

Mr. Ahmed SAYEED (Bangladesh Space Research and Remote Sensing Organization – SPARRSO, Bangladesh)

Mr. A.A. ALESHEIKH (School of Civil Engineering – K.N. Toosi University)

Sunday 9 May

0900 - 1030 **Presentation Session 2 – Crisis and Disaster Rehabilitation and Reconstruction**

Chairperson: Mr. Mohammad MORABBI (Iran Space Agency)

Rapporteur: Ms. Farzaneh Rahimi (Iran Space Agency)

Mr. Z. SHOU and Mr. D. HARRINGTON (Earthquake Prediction Center) – “Bam Earthquake Prediction and Space Technology” (Mr. Ansari AMOLI from Iran Space Agency will present on behalf of Mr. ZHOU)

Mr. Ahmed SAYEED (Bangladesh Space Research and Remote Sensing Organization – SPARRSO, Bangladesh) – “Space Technology Applications in Disaster Monitoring and Management in Bangladesh”

Mr. Hassan REZAZADEH (Telecommunication Company of Iran) – “Study and Design of Portable Communication Systems for Disaster Relief in Iran”

Mr. A. SEDAGHAT KERDAR (Meteorological Institute – Iranian Meteorological Organisation) – “Meteorological Satellite Applications for Communication and Salvage”

1030 - 1100 Tea Break

1100 - 1230 **Presentation Session 3 – Environmental Security**

Chairperson: Mr. Kasim AL-SAAD (Remote Sensing Centre, Ministry of Science and Technology, Iraq)

Rapporteur: Mr. Kiran Kumar KARKI (Ministry of Population and Environment, Nepal)

Mr. Aflatun HASANOV (Azerbaijan National Aerospace Agency – ANASA, Azerbaijan) – “Space Technology and International Cooperation for Environmental Monitoring of the Caspian Coastal Zone”

Mr. M. BAHRAMI (Aerospace Research Institute, Ministry of Science, Research and Technology) – “Environmental Security”

Mr. Talal DARWISH (National Centre for Remote Sensing, National Council for Scientific Research, Lebanon) - “Land Degradation in Lebanon: Vulnerability of Soil Resources to Desertification”

Ms. Ghaida ABU-RUMMAN (Royal Jordanian Geographic Centre, Jordan) – “Remote Sensing Techniques as a Tool to Detect Pollution in the Gulf of Aqaba”

1230 - 1400 Lunch

1400 - 1600 **Presentation Session 4 – Sustainable Development**

Chairperson: Mr. Helal ALI SALEH AL REISHI (Environmental Monitoring Authority – EPA, Yemen)

Rapporteur: Mr. Said RAHMAN (Pakistan Space and Upper Atmosphere Research Commission – SUPARCO, Pakistan)

Mr. Abd-Alla GAD (National Authority for Remote Sensing and Space Sciences – NARSS, Egypt) – “A Parametric Approach in Assessment of Soil Degradation Using Remote Sensing and GIS - A Case Study in North Sinai, Egypt”

Mr. Muzafar MALIKOV (Tashkent Scientific Research Institute of Space Engineering, Space Research Centre, Uzbekistan Academy of Sciences, Uzbekistan) – “The Importance of Snowmelt Runoff Modelling for Sustainable Development and Disaster Prevention”

- Ms. O. ASHIK (INTA Space Turk, Turkey) – “Remote Sensing and GIS-based Solution for Disaster Management”
- Mr. M. MAKHDOUM (School of Environment, Tehran University) – “Application of Space Technology in Sustainable Development in IRAN; A Review of Some Case studies”
- Mr. J. VATAN FADA (Office for River Engineering and Flood Control, Ministry of Energy)- “Application of Space Technology for Crisis Management in Natural Disasters”

1600 – 1630 Tea Break

1630 - 1800 **Discussion Session 1 – Understanding Needs and Flow of Information**
Three working groups: Environmental Security, Sustainable Development and Disaster Management

Monday 10 May

- 0900 - 1030 **Presentation Session 5 – Crisis and Disaster Rehabilitation and Reconstruction**
Chairperson: Ms. Sarem HALA (General Organisation of Remote Sensing – GORS, Syria)
Rapporteur: Mr. Muzafar MALIKOV (Tashkent Scientific Research Institute of Space Engineering, Space Research Centre, Uzbekistan Academy of Sciences, Uzbekistan)
- Mr. Joseph KANDEH (UNDP Afghanistan Information Management Services – AIMS) – “Disaster Management Information System to Manage Natural Disasters in Afghanistan”
- Ms. Olga GERSHENZON (SCANEX, Russian Federation) – “Affordable Mobile Remote Sensing Data Receiving Ground Station for Disaster Management from Space”
- Mr. SAFAVI (Telecommunication Research Institute) – “The Role of Satellite Communication in Disaster Rehabilitation”
- Mr. Eltayeb Osman ADAM ABDALLA (Remote Sensing Authority, Sudan) – “Remote Sensing for Assessment and Evaluation of Geomorphological Hazards with Reference to Floods for Eastern Parts of Khartoum State - Sudan”

1030 - 1100 Tea Break

- 1100 - 1230 **Presentation Session 6 – Environmental Security**
Chairperson: Mr. Abd-Alla GAD (National Authority for Remote Sensing and Space Sciences – NARSS, Egypt)
Rapporteur: Mr. Ali Reza KHANSARI (Telecommunications Research Centre, I.R.Iran)
- Mr. Abdin SALIH (UNESCO) “UNESCO Water Programmes”
- Mr. Trahel VARDANIAN (Department of Physical Geography, Yerevan State University, Armenia) – “Environmental Security and Water Disaster”
- Mr. Mohammad Ali SHARIFI (International Institute for Geoinformation and Earth Observation, The Netherlands) – “Geo-Information Technology Supporting Sustainable Water Resource and Environmental Management: The Case of Uromiyeh Basin, Islamic Republic of Iran”
- Mr. Kasim AL-SAAD (Remote Sensing Centre, Ministry of Science and Technology, Iraq) – “Remote Sensing Data for Monitoring the Changes of Marshes Environment in Al-Dalmaj and Al-Nahraman”

1230 - 1400 Lunch

- 1400 - 1600 **Open Session** – Participants wishing to make a presentation will be provided 10 minutes for their contribution
Chairperson: Mr. Ahmed SAYEED (Bangladesh Space Research and Remote Sensing Organization – SPARRSO, Bangladesh)
Rapporteur: Ms. Rada KASSOUHA (General Organisation of Remote Sensing – GORS, Syria)
- Mr. M. TAJRISHI (School of Civil Engineering, Sharif University) – “Some Application of RS/GIS Methods for Transboundary Basins; Case Study: Aras Basin”
- Mr. M. KHANSARI (Telecommunication Research Centre) – “Intelligent Navigation System in Disaster Rehabilitation Management”

- Mr. Said RAHMAN (Pakistan Space and Upper Atmosphere Research Commission – SUPARCO, Pakistan) – “Oil Spill Monitoring Using RADARSAT Data”
- Ms. Fatemeh MEHRALIZADEH (Iran Space Agency) – “Identification and Analysis of Structural Lineaments of Western Region of Urmia Lake”
- Mr. Helal ALI SALEH AL REISHI (Environmental Monitoring Authority – EPA, Yemen) - “Fire Burning in a Forest of Palm Trees in Al Rowase Al-Muukha District Yemen”
- Mr. M. ALI MOHAMMADI (School of Humanities -Tarbiat Modares University) – “Drought Monitoring”
- Mr. A. ANSARI AMOLI (Iran Space Agency) – “Drought Monitoring in Iran by NOAA/AVHRR Data (Recent Event)”
- Mr. M. R. SARADJIAN (School of Civil Engineering-Tehran University) – “Snow Cover Monitoring Using NOAA-AVHRR”
- Mr. A. A. ALESHEIKH, et al. (School of Civil Engineering- K.N. Toosi University) - “Design and Implementation of a National Spatial Data Clearinghouse”
- Mr. H. AGHIGHI (Iran Space Agency) – “Hotspot Detection with MODIS Images”
- Mr. S. JALAYERIAN (Iran Space Agency) – “An Automated System for Disaster Monitoring and Warning”
- Mr. A. SARSHAR (Heler Rayaneh Company) – “Disaster Management Using Spatial Information Technology”
- Ms. H. BALYAN (Yerevan State University) – “Geomorphological and Geophysical Methods of Forecasting of Activation and the Dynamics Landslides (on the Pattern of the Republic of Armenia)

1600 - 1630 Tea Break

1630 - 1800 **Discussion Session 2 – Defining Steps Forward and a Regional Database**
Three working groups: Environmental Security, Sustainable Development and Disaster Management

1900 – 2130 **Dinner Reception**

Tuesday 11 May

0900 - 1030 **Discussion Panel 2 – The Use of Space Technology in Asia – A Vision Forward**
Chairperson: Mr. M. BAHRAMI (Aerospace Research Institute, Ministry of Science, Research and Technology)
Rapporteur: Mr. M. MORABBI (Iran Space Agency)
Mr. Sassan SAATCHI (Jet Propulsion Laboratory, California Institute of Technology, USA)
Mr. S. MALAVIYA (GIS Development, India)
Ms. Olga GERSHENZON (SCANEX, Russian Federation)
Mr. A. TALEBZADEH (Iran Space Agency)
Mr. M. KHANSARI (Telecommunications Research Centre, I.R. Iran)
Mr. B. JAZAYERI (Jazayeri Associate Co. Iran)

1030 – 1100 Tea Break

1100 - 1230 **Discussion Session 3 – Plan-Of-Action and The Regional Database For Knowledge and Sharing**

1230 – 1400 Lunch

1400 – 1600 **Discussion Session 4 – Plan-Of-Action and The Regional Database For Knowledge and Sharing**

1600 – 1630 Tea Break

1630 – 1800 **Discussion Session – Wrap up**

- Synthesis of presentations, open sessions and discussion panels (reports given by each rapporteur)

- Presentation of the proposals and recommendations for the implementation of a regional network and plan-of-action

Closing remarks

- UNOOSA
- Iranian's Space Agency, ISA President

Wednesday 12 May

0900 – 1300 **Technical Tour – Visit to the BOUMEHEN Ground Receiving Station**