United Nations Regional Workshop on the
Use of Space Technology for Disaster Management for Western Asia

Hosted by the King Abdulaziz City for Science and Technology (KACST)

2 - 6 October 2004
Riyadh, Saudi Arabia

Programme

Saturday 2 October

0800 – 0900  Registration of Participants
0900 – 1000  Opening Ceremony
  • Opening statement by President of KACST
  • Statement by UN OOSA
  • Opening Address by Director of Space Research Institute, KACST
1000 – 1030  Morning Tea
1030 – 1200  Keynote Presentations
  Chairperson: M. TARABZOUNI, KACST, Saudi Arabia
  Rapporteur: M. KOUDMANI, GORS, Syria
  • “Remote Sensing Capabilities for Disaster Management” (Dr. Kamel Shekho, KACST, Saudi Arabia)
  • “Using Satellite Imagery in Disaster and Crisis Management” (G. TABAKIAN, Space Imaging Middle East)
  • “Space Technology and Disaster Management” (D. STEVENS AND R. NEWMAN, OOSA)
1200 – 1330  Lunch
1330 – 1530  Presentation Session 1 – Setting the Scene: Space Technology and Disaster Management
  Chairperson: M. ABDEEN, NARRS, Egypt
  Rapporteur: S. MAHMOUD, NRIAG, Egypt
  • “Oil Spill Monitoring in Brazil and an Approach for an Oil Spill Monitoring Centre at KACST” (G. FRANÇA, UFRJ, Brazil)
  • “Infra-Red Spectral Band Measurements for Seismic Activity Monitoring, Desertification Monitoring and Locust Mass Breeding Areas Monitoring” (V. GORNYI, Russian Academy of Sciences, Russian Federation)
  • “Detection and Mitigation of Flash Floods Hazards Using Remote Sensing and Geographic Information Systems” (A. ABDEL-HALIM, Cairo University, Egypt)
  • “Atlas on Space Observation Technology” (L. BECKEL, GEOSPACE, Austria)
1530 – 1600  Afternoon tea
1600 – 1730  Discussion Session 1 — Space Technology and Disaster Management: Working Towards a Common Strategy for Western Asia
  (One group for the initial discussion. Define attributes of an effective strategy and how to develop the strategy. Then split into smaller groups for brainstorming session).

Sunday 3 October

0830 – 1000  Presentation Session 2 – Understanding User Needs: Examples of Using Space Technology for Disaster Management
  Chairperson: M. E. H. YOUSSEF, Earthquake Disaster Reduction Data Centre, Egypt
  Rapporteur: H. SABAT, Institute of Astronomy and Space Sciences, Jordan
  • “Use of Space Technology for Natural Disaster Management in the Arab World” (M KOUDMANI AND I KAWAS, GORS, Syrian A. R.)
  • “The Use of Information Technologies in Disaster Response Operations” (H. GÜLER, Middle East Technical University, Turkey)
  • “Use of Space Technology for Natural Risk Assessment in Lebanon” (T. MASRI, National Centre for Remote Sensing, Lebanon)
  • “Application of Space Technology in Disaster Monitoring, Assessment and Mitigation in Bangladesh” (S. BEGUM, Space Research and Remote Sensing Organisation – SPARRSO, Bangladesh)
1000 – 1030  Morning Tea
1030 – 1200 Discussion Panel 1 – Defining Major Hazards and User Needs
(Panellists with 5 minute contributions followed by open discussion)
Moderator: T. MASRI, National Centre for Remote Sensing, Lebanon
Rapporteur: E. GANAWA, Remote Sensing Authority, Sudan
- S. KHAN, Emergency Relief Cell, Pakistan
- M. DALATI, GORS, Syria
- S. BEGUM, Space Research and Remote Sensing Organisation – SPARRSO, Bangladesh
- KACST Group, Saudi Arabia
- K. ABANDEH, Jordanian Meteorology Department, Jordan
- D JAYASINGHE ARACHCHI, Department of Meteorology, Sri Lanka
- S. SHAABANI, Office of the President, Kenya

1200 – 1330 Lunch

1330 – 1530 Presentation Session 3 – Building Upon Existing Space Technology Infrastructure
Chairperson: A. EL HAG, Remote Sensing Authority, Sudan
Rapporteur: I. AL-KAWASS, GORS, Syria
- "Spatial Information Requirements for Earthquake Disaster Mitigation and Relief Efforts" (M. DALATI, GORS, Syria)
- "Monitoring Cathodic Protection Units on Oil Pipelines Using Saudisat", (Dr. Abdulaziz Alsugair, KACST, Saudi Arabia)
- "Using Space Technology for Earthquake Hazard Assessment and Disaster Management Studies" (S. E.H. YOUSSEF, Earthquake Disaster Reduction Data Center, Egypt)
- "Post Gulf War Environmental Disaster Assessment and Prediction from 1989 to 1998 Using Space Observations and Spatial-Temporal Modelling in GIS Environment" (A. AL-DOUSARI, Kuwait Institute for Scientific Research, Kuwait)

1530 – 1600 Afternoon tea

1600 – 1730 Discussion Session 2 – Common Strategy for Western Asia: Building Upon Existing Opportunities
(small groups for brainstorming session – contributing to developing the plan of action)

Monday 4 October

0830 – 1000 Presentation Session 4 – Integrated Solutions for Space Technology and Disaster Management
Chairperson: S. BEGUM, Space Research and Remote Sensing Organisation – SPARRSO, Bangladesh
Rapporteur: A. ABDEL HALIM MUSTAFA, Cairo University, Egypt
- "GIS Yerevan – A GIS for simulating earthquakes and assessing its damages on the example of Yerevan" (H. YERITSYAN, Armenia)
- "Using Remote Sensing Techniques and Geographic Information Systems to Combat Desertification" (A. AL ALWAN, Royal Jordanian Geographic Center, Jordan)
- "National Geographic Information System for Disaster Management" (Mr. Walid Molla, KACST, Saudi Arabia)
- "Application of Remote Sensing and Geographic Information Systems for Site Selection for Hazardous Waste Disposal in Arid Areas" (M. ABDEEN, NARRS, Egypt)

1000 – 1030 Morning Tea

1030 – 1200 Discussion Panel 2 – Building Capacity and Strengthening Institutions
(Panellists with 5 minute contributions followed by open discussion)
Moderator: A. AL-DOUSARI, Kuwait Institute for Scientific Research, Kuwait
Rapporteur: D. JAYASINGHE ARACHCHI, Department of Meteorology, Sri Lanka
- A. ABBAS EL HAG, Remote Sensing Authority, Sudan
- H. SABAT, Al Al-Bayt University, Jordan
- A. AL DOUSARI, Kuwait Institute for Scientific Research, Kuwait
- KACST Group, Saudi Arabia
- I. AL-KAWASS, GORS, Syrian A. R.
- M. AIT BELAID, Arabian Gulf University, Bahrain
- S MAHMOUD, National Research Institute of Astronomy and Geophysics, Egypt

1200 – 1330 Lunch

1330 – 1730 Technical visit
Tuesday 5 October

0830 – 1000  Presentation Session 5 – Innovative Developments and Initiatives
Chairperson: M. TARABZOUNI, KACST, Saudi Arabia
Rapporteur: H. GÜLER, Middle East Technical University, Turkey
- “Study and Design of Portable Communication Systems for Disaster Relief” (H. REZAZADEH, Telecommunication Company of Iran, I. R. Iran)
- “Monitoring of Crustal Movements Using GPS Techniques” (S MAHMOUD, National Research Institute of Astronomy and Geophysics, Egypt)
- “Measuring Tectonic Movements Using Laser Ranging” (Mr. H. AL-SALMAN, KACST, Saudi Arabia)
- “Community-based Drought Monitoring Using Both Satellite Images and Ground Data in Kenya” (S. SHAABANI, Office of the President, Kenya)

1000 – 1030  Morning Tea

1030 – 1200  Discussion Panel 3 – The Role of Government and Private Sector
Moderator: S. KHAN, Emergency Relief Cell, Pakistan
Rapporteur: S. SHAABANI, Office of the President, Kenya
- KACST Group, Saudi Arabia
- G. FRANÇA, UFRJ, Brazil
- M. ABDEEN, NARRS, Egypt
- V. GORNYI, Russian Academy of Sciences, Russian Federation
- S. SHAABANI, Office of the President, Kenya

1200 – 1330  Lunch

1330 – 1530  Open Session
Chairperson: M. DALATI, GORS, Syria
Rapporteur: K. ABANDEH, Jordanian Meteorology Department, Jordan
- “ARGOS Applications and Services” (M. TARABZOUNI, KACST, Saudi Arabia)
- “Spatial Decision Support System for Land Use Planning” (E. GANAWA, Remote Sensing Authority, Sudan)
- "Quick Bird: Using the Highest Resolution Commercial Satellite Imagery for Disaster Management” (G. KHOURY, Maps Geosystems, Lebanon)
- “Space Techniques for Desertification Monitoring and Control” (M. AIT BELAID, Arabian Gulf University, Bahrain)

1530 – 1600  Afternoon tea

1600 – 1730  Discussion Session 3 – Strengthening the Institutional Aspects of Space Technology and Disaster Management
(Discussion in small groups with aim of contributing to the plan of action)

Wednesday 6 October

0830 – 1030  Discussion Session 4 - Defining a Common Strategy and Building Partnerships
(Discussion in one big group)

1030 – 1100  Morning Tea

1100 – 1200  Wrap-up Session
- 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
- KACST