Third United Nations International UN-SPIDER Bonn Workshop:
“Disaster Management and Space Technology-
From Concepts to Application”

Organised by the

United Nations Office for Outer Space Affairs (UNOOSA)

and the

German Aerospace Center (DLR)

with the support from the

United Nations Convention to Combat Desertification (UNCCD)

Bonn, Germany, 21–23 October 2009

Langer Eugen UN Campus, Hermann-Ehlers-Str. 10
Workshop Programme

Wednesday, 21st October 2009

8:30 – 11:00  Registration at UN Campus Bonn
(Please arrive early to avoid delays)

10:00 – 10:45  Coffee and Tea  (19th floor)

10:45  Opening ceremonie

Moderator: Joerg Szarzynski, UN-SPIDER Bonn Office

10:50 – 11:00  Ambassador Rüdiger LÜDEKING
Permanent Mission of Germany at the United Nations,
Vienna, Austria

11:00 – 11:10  Ambassador Neville GERTZE
Permanent Mission of Namibia,
Berlin, Germany

11:10 – 11:20  Margitta WÜLKER-MIRBACH
German Federal Ministry of Economics and Technology
Bonn, Germany

11:20 – 11:30  Johann-Dietrich WÖRNER
Chairman of the Executive Board
German Aerospace Center (DLR)

11:30 – 11:40  David STEVENS
Programme Coordinator UN-SPIDER/UNOOSA
Vienna, Austria

11:40 – 12:40  Keynote Plenary Presentations

Sergio A. ZELAYA BONILLA
United Nations Convention to Combat Desertification (UNCCD), Bonn, Germany
“Space-based Products to Enhance UNCCD Implementation"

Olivier DEGOMME
Centre for Research on the Epidemiology of Disasters (CRED), Brussels, Belgium
“Improving effectiveness of Humanitarian Assistance: Data implications of using space based technologies.”

12:40 – 12:50  Introductory presentation: The UN-SPIDER Programme
Lorant CZARAN
Head of Office, UN-SPIDER Bonn Office

12:50 – 13:00  Conference Photo

13:00 – 14:30  Lunch  (UN Campus Bonn Cafeteria)
Session I: Space technology in support of risk and disaster management

Moderator: Robert BACKHAUS, UN-SPIDER Bonn Office

Plenary Presentations

Pascal FAUCHER
CNES, Paris, France
"Space-based applications for disaster management, emergency response, humanitarian action and development: overview of CNES programmes"

Hannes TAUBENBOECK
German Aerospace Center, Environment and Security Unit, Center for Satellite Based Crisis Information, Oberpfaffenhofen, Germany
"The future will be urban – capabilities and solutions from remote sensing for risk assessment and management."

Meron KINFEMICHAEL
United Nations Economic Commission for Africa (ECA), Addis Ababa, Ethiopia
"Health database and web-mapping for emergency response. A prototype application for Ethiopia"

Ivan LIENLAFl
Executive Secretariat of SNIT Chile - Ministry of National Properties, Santiago, Chile
"SNIT – Geospatial information for decision making. The Chilean experience"

Special Sequence: The Namibia SensorWeb Pilot Project

Guido VAN LANGENHOVE, Pauline MUFETI
Department of Water Affairs, Windhoek, Namibia
"Experiences with space technology in management of 2009 flood in central northern Namibia"

Stuart FRYE, NASA
NASA, Goddard Space Flight Center, Greenbelt, Md., USA
"Contribution to the Namibia SensorWeb pilot project (I)"

Joachim POST (DLR)
German Aerospace Center, Environment and Security Unit, Center for Satellite Based Crisis Information, Oberpfaffenhofen, Germany
"Contribution to the Namibia SensorWeb pilot project (II)"

Coffee and Tea Break
17:00 – 18:30

Manzul HAZARIKA
Geoinformatics Center, Asian Institute of Technology (AIT)
"Integrated Information and Communication System for Disaster Management"

Garry KING
Globalstar Europe
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John BEVINGTON
ImageCat R&D, Europe
“Virtual Disaster Viewer (VDV): Understanding disasters through shared knowledge”

Peter STUMPF, Natalie EPLER
UN-SPIDER Bonn Office
"Development and current state of the The UN-SPIDER Knowledge Portal"

Algis KUCINSKAS (ENSAPLV), Brian TOMASZEWSKI (CMS/RIT)
Ecole Nationale Supérieure d’Architecture de Paris La Villette (ENSAPLV)
Rochester Institute of Technology (RIT)
“Towards an interactive educational environment for disaster management support”

19:00 – 22:00

Conference Dinner Reception hosted by DLR
Welcome note by Peter FINGER, Mayor of the City of Bonn
Welcome note by Mr. Christoph BECKER, Head Strategy and International Relations
German Aerospace Center (DLR)
Altes Rathaus, Bonn
Thursday, 22nd October 2009

8:30 – 10:20

Session II: SpaceAid

Moderator: Lorant CZARAN, UN-SPIDER

Keynote Presentation
France LAMY, GOOGLE
“Google Disaster Response Activities”

Plenary Presentations
Introduction: Lorant CZARAN
“What is SpaceAid: Concept, Framework, Participants, Solutions”

Karoliina SAARNIAHO
United Nations Framework Convention on Climate Change (UNFCCC), Bonn
“What data and observation needs for adaptation under the UNFCCC”

Konstanze KLEINOD
German Aerospace Center (DLR), German Remote Sensing Data Center (DFD)
Oberpfaffenhofen, Germany
“European Emergency Response Service (ERS) to provide space based information - an element of Global Monitoring for Environment and Security (GMES)”

Janvier BAZOUN
Institut Géographique du Burkina, Ouagadougou, Burkina Faso
“Contribution of space technologies in the management of flooding, 1 September 2009 in Burkina Faso: “From activation of the Charter to rapid mapping”

Andreas HERMENS
German Federal Office for civil protection and disaster assistance, Bonn, Germany
“Short briefing about the system of civil protection in Germany and the organisation of using satellite data for civil protection”

Cheng-Chien LIU
Department of Earth Sciences, National Cheng Kung University Taiwan
“Rapid response to global disasters using Formosat-2 high-spatiotemporal imagery”

Mladen CVRLJE
Ministry of Foreign Affairs and European Integration of the Republic of Croatia, Zagreb, Croatia
“Information on a possible contribution of space-base technologies in Croatia for disaster management and emergency response”

Working Groups – Preparation for Break-Out (Moderators)
10:20 – 10:40
Coffee and Tea Break

10:40 – 12:00
Break-Out Session for working groups I - III

12:00 – 12:45
Presentation of the Results of the Working Groups to the Plenary and General Discussion

12:45 – 14:00
Lunch (UN Campus Bonn Cafeteria)

14:00 – 15:40
Session III: Adaptation to global climate change and land degradation utilising innovative monitoring and analysing tools

Moderator: Prof. G. TETZLAFF

Plenary Presentations
Introduction: Prof. G. TETZLAFF
“Disasters what we do know and what we should know?”

Awatif ELNAIR
Disaster and Early Warning Section, Remote Sensing Authority, Khartoum, Sudan
“Site selection for water harvesting based on RS and GIS technologies”

Koko WARNER
UNU-EHS, Bonn, Germany
“Advancing human security through knowledge-based approaches to reducing vulnerability and environmental risks”

Syed HUDA
Ministry of Food & Disaster Management, Bangladesh
“Use of space-based technologies to mitigate sufferings of people in Bangladesh in the event of a disaster due to global climate change and land degradation ”

Louis-Francois GUERRE (Algis KUCINSKAS)
SPOT Image, Coordinator of the Planet Earth initiative, Toulouse, France
“The Planet Action initiative: supporting projects addressing climate change issues ”

15:40 – 16:10
Coffee and Tea Break
16:10 – 17:30  Plenary Presentations

**Suraj PANDEY**
International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Bulawayo, Zimbabwe
“Climate change impact & land degradation mitigation strategies in southern Africa – A methodological framework using remote sensing based models”

**Aster Denekew YILMA**
International Water Management Institute, Addis Ababa, Ethiopia
“Overview of Climate Change & adaptation in Africa, particularly in Ethiopia”

**Prabhath PATABENDI**
Center for Disaster Risk Reduction, Malabe, Sri Lanka
“Global Climate Changes- Impact and Adaptation, A case study from Southern Sri Lanka”

**Gulchekhra KHASANKHANOVA**
Ministry of Agriculture and Water Resources Uzbekistan, Tashkent, Uzbekistan
“Use of space-based technologies and national SLM-IS for forecasting and reduce of disaster risks in Fergana Valey, Uzbekistan”

**Peter STROBL**
European Commission – Joint Research Center, Ispra, Italy
“EFFIS – The European Forestfire Information System”

17:30 – 18:00  Feed-back from the Plenary

19:30 – 22:00  Conference Reception
Sponsored by GOOGLE
River Rhine Tour with MS Godesia
Welcome note by France LAMY, GOOGLE

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**Friday, 23rd October 2009**

**8:30 – 10:00**  Session IV: Disaster Medicine, Telemedicine and Integrated Vector Management (IVM)

**Moderators:** Murielle LAFAYE – CNES, France & Jacques André NDIONE, CSE, Senegal

**Plenary Presentations**
Introduction: Murielle LAFAYE
“CNES strategy for Environment-Climate and Health”

**David ROGERS**
Health and Climate Foundation, Marchissy, Switzerland
“Integrating weather climate and environment information for health”
8:30 – 10:00

**Godstime JAMES**
National Space Research and Development Agency; UN-SPIDER Regional Support Office, Abuja, Nigeria

“**Telemedicine development in Nigeria**”

**Peter LEGGAT**
School of Public Health, Tropical Medicine and Rehabilitation Sciences, Faculty of Medicine, Health and Molecular Sciences, James Cook University, Townsville, AUSTRALIA

“**Postgraduate disaster health education in Australia: Incorporation of space-based technologies?**”

**Lenny ROYTMAN**
National Oceanic and Atmospheric Administration (NOAA) – Center of Excellence in Remote Sensing (CREST), New York, USA

“Early prediction of malaria in forest hills of Bangladesh using AVHRR based satellite data”

10:45 – 11:15

**Coffee and Tea Break**

11:15 – 12:30

**Natalia KUSSUL**
Space Research Institute of the National Academy of Sciences of Ukraine and the National Space Agency of Ukraine

“**Risk Analysis of Water Borne Vector Disease Based on Heterogeneous Data**”

**Jacques-André NDIONE**
Centre de Suivi Ecologique de Dakar, Senegal

“**Building an early warning system (EWS) for Rift Valley Fever (RVF) in Ferlo region: what can be expected from remote sensing?**”

**Thomas KRAFFT**
GEOMED, Bad Honnef, Germany

“**Tackling Health Impacts of Global Change: The Initiatives of the Earth System Science Partnership on Global Environmental Change Research (ESSP)**”

**Plenary Discussion**
Feedback from Participants

12:30 – 14:00

**Lunch (UN Campus Bonn Cafeteria)**

14:00 – 14:45

**Wrap-Up Discussion (UN-SPIDER, DLR, UNCCD)**

14:45 – 15:00

**Closing Remarks**