



UNITED NATIONS
Office for Outer Space Affairs



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



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Workshop Programme

Wednesday, 21st October 2009

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| 8:30 – 11:00 | Registration at UN Campus Bonn (Please arrive early to avoid delays) |
| 10:00 – 10:45 | Coffee and Tea (19 th 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) |

14:30 – 16:30

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 LIENLAF

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)"

16:30 – 17:00

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

“ ”

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

“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)

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| 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 | <p>Session III: Adaptation to global climate change and land degradation utilising innovative monitoring and analysing tools</p> <p>Moderator: Prof. G. TETZLAFF</p> <p>Plenary Presentations Introduction: Prof. G. TEZTLAFF “Disasters what we do know and what we should know?”</p> <p>Awatif ELNAIR Disaster and Early Warning Section, Remote Sensing Authority, Khartoum, Sudan “Site selection for water harvesting based on RS and GIS technologies”</p> <p>Koko WARNER UNU-EHS, Bonn, Germany “Advancing human security through knowledge-based approaches to reducing vulnerability and environmental risks”</p> <p>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 ”</p> <p>Louis-Francois GUERRE (Algis KUCINSKAS) SPOT Image, Coordinator of the Planet Earth initiative, Toulouse, France “ The <i>Planet Action</i> initiative: supporting projects addressing climate change issues ”</p> |
| 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

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