Earth Observation in Epidemiology Workshop

8-10 March 2006, ESA/ESRIN, Frascati, Italy

AGENDA

Wednesday 8th March, 16:00 - 17:30

[15:30 - 16:00 Registration and Coffee]

Introduction

"Welcome", Simon Pinnock, ESA-ESRIN, Italy

"Introduction / Overview and Status of the EPIDEMIO project", Kathrin Weise, Jena-Optronik, Germany

"ESA Earth Observation Programme and How to get Data", Simon Pinnock, ESA/ESRIN, Italy

Thursday 9th March, 09:30 - 18:30

[09:00 - 09:30 Registration]

Earth Observation supporting Human Health (Part I)

Cartography and Urban Mapping

"SPOT5 data for Urban Mapping - Methods and results for cities in Africa" Sherry McHugh, C-Core, Canada

"Vulnerability Assessment of the Megacity Istanbul with Remote Sensing and GIS", Achim Roth, DLR, Germany

"Digital Elevation Maps – Stereo and Interferometrical height maps for test sites in Africa" Andreas Wiesmann, Gamma Remote Sensing, Switzerland

"Projection of in field data on satellite images", J.-P. Meert, WHO Geneva, Switzerland [tbc]

"Respond: Cartography and Mapping in the ESA GMES Service Element for Humanitarian Aid", Nick Veck, Infoterra Ltd., UK [tbc]

Land Cover

"Water body maps – mapping water bodies in Africa, methodology and results", Andreas Wiesmann, Gamma Remote Sensing, Switzerland

"Land cover change mapping for test sites in Ethiopia", Florian Siegert, RSS, Germany

"Early Detection of Malaria Epidemics in East Shoa", Amir Said, Ethiopia

"Land cover mapping and monitoring, potential and limitations of MERIS, Landsat and ENVISAT data in tropical rainforest areas", Florian Siegert, RSS, Germany

"Radar data for land cover applications in Africa", Jean Paul Rudant, University La Valle, France [tbc]

"Remote Sensing data contribution for epidemiological studies in rural and urban areas: Examples of Lagdo Lake (North Cameroon) and Niamey city (Niger)", Jacob Kouamé, University LaValle, France / Cote d'Ivoire

"Characterization of environmental conditions of Ebola outbreaks in Gabon and Congo: remote sensing data provide clues information", Ghislain Moussavou, CIRMF, Gabon

Disease and Environmental Factors

"Increase in incidence of Mycobacterium ulcerans infection ('Buruli ulcer') and environmental changes", Gerd Pluschke, Swiss Tropical Institute, Switzerland

"Malaria parasite cycle and its correlation to environmental factors", STI Switzerland [tbc]

"Schistosomiasis and its relation to environmental factors", STI, Switzerland [tbc]

"Environmental risk factors and Schistosomiasis: application in Ihosy district, Madagascar", Rindra Randremanana, Pasteur, Madagascar

"Temporo-spatial clustering and infection dynamics of malaria parasites in the Ashanti Region, Ghana", Jürgen May, Bernhardt Nocht Institute Hamburg, Germany

"Linking remote sensing and disease data using spatial statistical methods an application for mapping malaria risk in West and Central Africa", Laura Gosoniu, Swiss Tropical Institute, Switzerland

"Stationary and non-stationary models for mapping disease risk data", Penelope Vernatsou, Swiss Tropical Institute, Switzerland

Friday 10th March, 09:30 - 13:00

Earth Observation supporting Human Health (Part II)

Meteorology and Climate

"Wind Blown Dust Map for Meningitis risk areas in Africa", Christelle Barbey, Silogic, France

"Use of dust maps for meningitis surveillance and factor analysis: preliminary results", Isabelle Jeanne, CERMES, Niger

"Mapping Land Surface Temperature for Malaria epidemics in Africa", Christelle Barbey, Silogic, France

"Use of Remote Sensing for Monitoring Climate Variability for Integrated Malaria Early Warning Systems", Pietro Ceccato, Columbia University International Research Institute for Climate and Society, USA

"Climate and meningitis outbreaks in West Africa", Pascal Yaka, CNRS, Paris / Burkina Faso"

Outlook

"Remote sensing products - future needs for application at CNRS", Berhard Lacaze, CNRS, France [tbc]

"GEOSS", Guy Duchossois, GEO Secretariat, WMO, Switzerland [tbc] "Future ESA Earth Observation Satellites" Simon Pinnock, ESA/ESRIN, Italy

4. Discussion and Conclusions

