

UNOOSA
UNITED NATIONS OFFICE FOR OUTER SPACE AFFAIRS
LAPAN
NATIONAL INSTITUTE OF AERONAUTICS AND SPACE OF INDONESIA

**United Nations/Indonesia
International Conference on
Integrated Space
Technology Applications to
Climate Change**

PROGRAMME

2 - 4 September 2013
Jakarta, Indonesia



UNITED NATIONS
Office for Outer Space Affairs



LAPAN



DATE

2-4 September 2013

VENUE

Borobudur Hotel
Jalan Lapangan Banteng Selatan
P.O. Box 1329
Jakarta 10710
Indonesia
Tel: (62-21) 3805555
Fax: (62-21) 3809595
Email: welcome@hotelborobudur.com

ORGANIZERS

United Nations Office for Outer
Space Affairs (OOSA)
National Institute of Aeronautics
and Space (LAPAN)

IN COOPERATION WITH

European Space Agency (ESA)

BACKGROUND

Climate change has been defined as the challenge of our times as it is a process which may deter sustainable development throughout the world. Satellites offer a unique point of view to track several essential climate variables and to observe its manifestations at the global level such as sea-level rise, deforestation trends or carbon emissions; and to monitor on a permanent basis other parameters which may be too difficult or costly to observe from the ground such as changes in polar ice-caps and glaciers, and social trends such as increasing exposition of vulnerable communities.

The Conference will bring together experts from the space, the environment, academia and the climate change community as well as decision makers from Member States and from national, regional, and international organizations.

The **objectives** of this International Conference are:

- To discuss ways in which Member States affected by climate change can make better use of space applications to assess the manifestations of and the vulnerability to climate change.
- To identify potential types of measures which could be implemented by communities when focusing on mitigation and adaptation to climate change.
- To improve synergies among space agencies and organizations targeting efforts on mitigation and adaptation to climate change.
- To strengthen international and regional cooperation in this area.
- To raise awareness on the recent advances in space-based technologies, services and information resources which can be used to monitor the impacts of climate change and the effects of measures implemented to reduce such impacts.

MODALITIES

The Conference will open on 2 September 2013 with an Opening Ceremony including keynote speeches from representatives of Indonesian government agencies and the United Nations.

The conference will include presentation sessions in the plenary and working groups. 9 thematic working groups are foreseen focusing on the following topics:

- Mitigation/REDD
- Adaptation in Coastal Areas
- Climate Change and the Environment
- The Role of Research in Climate Change issues
- Climate Change and Disasters
- Data Policy
- Mitigation and Adaptation in Mountains
- Adaptation in Agriculture
- Weather and Climate

At the end of each discussion group session, the results of the discussions will be presented and discussed.

The conference concludes with the reports from the working groups as well as a wrap up of the event.

A private sector session in the afternoon of the third day of the event will allow participants to exchange and discuss collaboration opportunities with representatives of the private sector.

In the evening of 2 September 2013, LAPAN invites all participants to attend a reception in the conference hotel including a dinner and a cultural show.



Image: NASA

2 September 2013 Opening Ceremony

Time	Title	Speaker
9:00-9:05	Welcome Remarks	Mr. Bambang Tejasukmana Chairman, LAPAN, Indonesia
9:05-9:15	Welcome Remarks	Mr. Douglas Broderick Resident Coordinator, United Nations in Indonesia
9:15-9:30	Summary of the Conference	Mr. Juan Carlos Villagran UNOOSA
9:30-9:45	Keynote Speech	Ms. Endah Murniningtyas Deputy Chairman for Natural Resources and Environment, BAPPENAS, Indonesia
9:45-10:00	Keynote Speech	Mr. Balthasar Kambuaya Deputy Minister for Environmental Damage Control and Climate Change, Ministry of Environment, Indonesia
10:00-10:15	Opening Address	Mr. Teguh Rahardja Senior Advisor to The Minister of Research and Technology for Defence and Security, Indonesia
10:15-10:50	Photo Session & Coffee Break / Press Conference	

Presentations

Time	Title	Speaker
10:50-11:10	The adaptation and mitigation policy of climate change impact in Indonesia	Mr. Doddy Sukadri National Board for Climate Change, Indonesia
11:10-11:30	The adaptation strategies and application of space-based data in mitigation of climate change impact in Bangladesh	Mr. Monowar Hossain Akhand Ministry of Home Affairs, Govt. of Bangladesh
11:30-11:50	Coupling spatial data and high-resolution climate modeling in support for a strategy to climate change adaptation in Algeria	Mr. Abdelhak Trache ASAL, Algeria
11:50-12:10	REDD at national & project scales dedicated geo-spatial solutions to meet user needs	Mr. Thomas Pfister Astrium
12:10-12:30	Introduction to Working Groups by Organizers: UNOOSA & LAPAN	

12:30-14:00	Lunch
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Working Group Session 1

Time	Working Group I MITIGATION / REDD (Sumba A Room)	Working Group II CLIMATE CHANGE AND DISASTERS (Sumba B Room)	Working Group III CLIMATE CHANGE AND ENVIRONMENT (Sumba C Room)
14:00-14:20	Utilization of satellite remote sensing data for national forest cover change monitoring to support REDD+ MRV system in Indonesia Ms. Orbita Roswintiarti LAPAN, Indonesia	Space-based application for coastal vulnerability assessment in Indonesia Mr. M. Rokhis Khomarudin LAPAN, Indonesia	Ms. Samia Elhassan Blue Nile National Institute for Communicable Disease (BNNICD), Sudan
14:20-14:40	Remote sensing role in climate change research in Lebanon Mr. Mohamad Awad National Council for Scientific Research, Lebanon	Applications of space-based information in the Philippines Mr. Edna L. Juanillo PAGASA, Philippines	Adaptation to climate change in Guatemala: Efforts by MARN Mr. Jose David Diaz Gonzalez Ministry of Environment and Natural Resources, Guatemala
14:40-15:00	Examples of the use of satellite imagery to climate change – REDD Programme Mr. James Durana RapidEye	Space Application in climate change in SUPARCO Mr. Rahamatullah Jilani SUPARCO, Pakistan	Integrated Space technology applications to climate change adaptation and mitigation in Africa Mr. Frederick Mokua RCMRD Kenya
15:00-15:30	Coffee Break		
15:30-17:00	Discussion & Proposals	Discussion & Proposals	Discussion & Proposals

Cultural Event

19:00-21:00	Dinner and Cultural Show / Reception hosted by LAPAN at Hotel "Borobudur"
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3 September 2013 Working Group Session 2

Time	Working Group IV THE ROLE OF RESEARCH (Sumba A Room)	Working Group V ADAPTATION IN COASTAL AREAS (Sumba B Room)	Working Group VI DATA POLICY (Sumba C Room)
9:00-9:20	Remote Sensing data processing for ecology and climate monitoring at the territory of the Republic of Belarus Mr. Sergey Ablameyko Belarusian State University	The use of space-based information in helping Mauritius to mitigate and address its needs related to adaptation to climate change Mr. Vivekarran Rughooputh Ministry of Health and Quality of Life, Mauritius	Remote Sensing Data Policy in Indonesia Ms. Orbita Roswintiarti LAPAN, Indonesia
9:20-9:40	Don't waste Space Mr. Sean Tuttle University of New South Wales, Canberra, Australia	The use of space-based applications to identify how best to adapt to the challenges of climate change in Jamaica Mr. Mark A. Codling Ministry of Water Land Environment & Climate Change, Jamaica	The interface between international and national mission products for climate change applications Mr. Owen Hawkins Surrey Satellite Technology Ltd.
9:40-10:00	The Asia Knowledge and Innovation Lab Ms. Ramda Yanuraka World Bank, Indonesia	Space-based information applications related to climate change monitoring in Morocco Mr. Abderrahman Atillah Royal Center of Remote Sensing, Morocco	Land reforms and usable floor space its results Mr. Divankhan Ahadov State Committee Land and Cartography of Azerbaijan Republic
10:00-10:20	Blue carbon and climate change in Indonesia Mr. Arief B. Purwanto CCMRS IPB, Indonesia	Research activities on climate variability impact to marine and fisheries sector Mr. Widodo S. Pranowo Ministry of Marine and Fisheries, Indonesia	Indonesian Space Act Ms. Erna S. Adiningsih LAPAN, Indonesia
10:20-10:50	Coffee Break		
10:50-12:10	Discussion & Proposals	Discussion & Proposals	Discussion & Proposals
12:10-14:00	Lunch		

Working Group Session 3

Time	Working Group VII MITIGATION AND ADAPTATION IN MOUNTAINS (Sumba A Room)	Working Group VIII ADAPTATION IN AGRICULTURE (Sumba B Room)	Working Group IX WEATHER AND CLIMATE (Sumba C Room)
14:00-14:20	Climate change impacts on pollution and insect pest management in the East African mountain ecosystem Mr. Tino Johansson International Center of Insect Physiology and Ecology (ICIPE)	Use of space-based technologies to climate change adaptation and mitigation: Prospects for Ethiopia Mr. Demeke Nigussie Alemu Ethiopian Institute of Agricultural Research (EIAR)	The impact, mitigation and adaptation of climate change in Sri Lanka Mr. M.M.P. Mendis Department of Meterology, Sri Lanka
14:20-14:40	Climate Change and disaster-risk management in Bhutan Ms. Gaki Tshering Royal Civil Service Commission, Bhutan	Ghana technology needs assessment project for climate change adaptation and mitigation Mr. Francis Danquah Ohemeng Irrigation Development Authority, Ghana	Remote Sensing Application to detect and identify climate change over Indonesia Mr. Eddy Hermawan LAPAN, Indonesia
14:40-15:00	Challenge in climate assessment for climate change impacts, vulnerability and adaptation: Potential use of gridded dataset Mr. Perdinan Bogor Agricultural University-IPB, Indonesia	Space Technologies in Sudan Ms. Donia Hassan Khalafalla Ministry of Agriculture and Irrigation, Sudan	An overview of southern Philippine climate change-related meteorological events Mr. Daniel McNamara Manila Observatory and Ateneo de Davao University, Philippines
15:00-15:30	Coffee Break		
15:30-17:00	Discussion & Proposals	Discussion & Proposals	Discussion & Proposals

4 September 2013 Plenary

Time	Title	Speaker
9:00-9:15	Assessment of some vulnerability parameters to the urban heat island in Tanta City, Egypt using Remote Sensing and GIS	Ms. Hala A. Effat National Authority for Remote Sensing and Space Sciences, NARSS, Cairo, Egypt
9:15-9:30	Use of space-based technology information in the regional Niger Basin in the West and Central Africa on the mutual use of the shared water resources for sustainable development and mitigation of climate change challenges	Mr. J. A. Shamonda Nigeria Hydrological Services Agency, Nigeria
9:30-9:45	Utilizing information from space-borne sensors for climate risk management	Ms. Gabrielle Iglesias Asian Disaster Preparedness Center
9:45-10:00	Climate change and disaster risk reduction: Space technology relevance	Mr. Shirish Ravan UNOOSA/UN-SPIDER
10:00-10:30	Report from Working Group 1-3	Rapporteurs
10:30-11:00	Coffee Break	
11:00-11:30	Report from Working Group 4-6	Rapporteurs
11:30-12:00	Report from Working Group 7-9	Rapporteurs

Closing Plenary

13:30-14:30	Discussion: Next steps
14:30-15:00	Closing remarks (Mr Taufik Maulana, LAPAN and Mr Juan Carlos Villagran, UNOOSA)
15:00-15:30	Coffee Break
15:30-17:00	Open session with private sector - Stands

