

IGOS International Workshop

“Towards the implementation of the Integrated Global Observing Strategy (IGOS)”

February 4 - 6, 2004

Tokyo International Exchange Center “Plaza Heisei”

Plenary Session

“Update on international and national initiatives for global observations”

February 4 (Wed), 2004

International Conference Hall

Chair: *Prof. Ogawa* (JAXA)

13:30 - 13:35	Welcome address (<i>Mr. Mamiya</i> (JAXA))
13:35 - 13:40	Welcome address (<i>Mr. Sakata</i> (MEXT))
13:40 - 14:00	Keynote Presentation on IGOS (<i>Prof. Li Deren</i> (NRSCC, CEOS/IGOS-P Chair representative))
14:00 - 14:20	Report on Earth Observation Summit (<i>Mr. Fukai</i> (MEXT))
14:20 - 14:40	Space agency response to IGOS (<i>Dr. Furuhamra</i> (CEOS/SIT Chair))

Global observing systems and IGOS

14:40 - 15:00	WMO’s Global Observing System (<i>Dr. Hinsman</i> (WMO))
15:00 - 15:20	Break
15:20 - 15:40	Global Ocean Observing System (<i>Dr. Yoshida</i> (JMA/GOOS))
15:40 - 16:00	Global Climate Observing System (<i>Dr. Thomas</i> (GCOS))

International research programs and IGOS

16:00 - 16:20	World Climate Research Program (<i>Dr. Lawford</i> (WCRP))
16:20 - 16:40	International Geosphere Biosphere Research Program (<i>Dr. Canadell</i> (IGBP))

16:40 - 17:00	Report on the “Workshop on the Satellite Utilization for Water Cycle in Asia” (<i>Prof. Nakamura</i> (Nagoya Univ.))
---------------	---

18:30 - 20:30	Reception at Le Meridien Grand Pacific Tokyo
---------------	--

IGOS International Workshop

"Towards the implementation of the Integrated Global Observing Strategy (IGOS)"

February 4 - 6, 2004

Tokyo International Exchange Center "Plaza Heisei"

Ocean Theme Splinter Session

"Review of IGOS-P Theme Papers and recommendations for their implementation"

February 5 (Thu), 2004

Media Hall

Co-chairs:

Eric LINDSTROM (Team Leader; Ocean US & NASA, USA)

Shiro IMAWAKI (Kyushu Univ., Japan)

Program Coordinator and Rapporteur:

Ichio ASANUMA (JAMSTEC, Japan)

9:30 - 11:00

1. Introduction

Background information on Ocean Theme, global observing system planning (geo framework), etc (*Eric LINDSTROM*)

11:00 - 11:15

Break

11:15 - 12:30

2. Status and plans for space component

Ocean Surface Topography (*Yves MENARD* (CNES, France))

Ocean Vector Winds

(*Naoto EBUCHI* (Hokkaido Univ., Japan))

(*David HALPERN* (Office of Sci. and Tech. Policy, USA))

Sea Surface Temperature (*Hiroshi KAWAMURA* (Tohoku Univ., Japan))

Sea Ice Concentration, Extent, Drift, and Thickness

(*Keiichiro OHSHIMA* (Hokkaido Univ., Japan))

Precision Gravity Field and Geoid

(*Tadahiro SATO* (Natl. Astronomical Observatory, Japan))

12:30 - 14:00

Lunch

14:00 - 15:30

3. Status and plans for in-situ observation systems

GOOS (*Takashi YOSHIDA* (Japan Met. Agency, Japan))

Argo (*Kensuke TAKEUCHI* (JAMSTEC, Japan))

CLIVAR (*Toshio SUGA* (Tohoku Univ., Japan))

Japanese agencies

(*Koichi ISHIKAWA* (Japan Met. Agency, Japan))

(*Hiroyuki YORITAKA* (Hydrogr. & Oceanogr. Dept., Japan))

(*Kaoru NAKATA* (Fisheries Res. Agency, Japan))

(*Takatoshi TAKIZAWA* (JAMSTEC, Japan))

15:30 - 15:45

Break

15:45 - 16:30

4. Synthesis activities for Ocean Theme

<Products, Data and Information systems, Modeling, etc.>

Data Services, Models, Products, and Applications

(*Takashi YOSHIDA* (Japan Met. Agency, Japan))

(*Satoshi SATO* (JODC, Japan))

Data Assimilation and Ocean Prediction (GODAE)

(*Masafumi KAMACHI* (Met. Res. Inst., Japan))

16:30 - 17:30

Summary discussion, and next steps

(*Eric LINDSTROM* and *Shiro IMAWAKI*)

17:30

Closing

Note: Each report for subsections 2 through 4 should be less than 10 min long.

IGOS International Workshop

“Towards the implementation of the Integrated Global Observing Strategy (IGOS)”

February 4 - 6, 2004

Tokyo International Exchange Center “Plaza Heisei”

Global Carbon Observation Theme Splinter Session

“Review of IGOS-P Theme Papers and recommendations for their implementation”

February 5 (Thu), 2004

Conference Room #2

Co-chairs:

Dr. Pep Canadell (CSIRO)

Dr. Gen Inoue (NIES)

Program Coordinator and Rapporteur:

Dr. T. Igarashi (JAXA)

09:30 - 10:00	IGOS Theme reports of IGCO: Integrated Global Carbon Observation (<i>Dr. Canadell</i> , CSIRO)
10:00 - 10:20	Global Carbon Project (<i>Dr. Canadell</i> , CSIRO)
10:20 - 11:00	Terrestrial Carbon Observation (1) Global Carbon Cycle (<i>Dr. Y. Awaya</i> , FFPRI) (2) Asia Flux (<i>Dr. S. Yamamoto</i> , AIST)
11:00 - 12:00	Atmospheric Carbon Observation (1) AtmosphericCO2 Data Analysis for Global Carbon Cycle Research <i>(S. Maksyutov, T. Maki, S. Taguchi, P. K. Patra)</i> (2) Oxygen (<i>Dr. Y. Tohjima</i> , NIES)
12:00 - 13:30	Lunch
13:30 - 14:50	Ocean Carbon Observation (1) Flux on Sea-Surface (<i>Dr. Y. Nojiri</i> , NIES) (2) Carbon Stock in the Ocean (<i>Dr. M. Ishii</i> , Met.Res.Inst) (3) Ocean Biology (<i>Prof. A. Tsuda</i> , Univ. of Tokyo) (4) Primary Productivity (<i>Dr. I. Asanuma</i> , JAMSTEC)
14:50 - 15:30	Carbon Observation Space Programs (1) GOSAT (<i>Prof. Y. Yasuoka</i> , Univ. of Tokyo) (2) Kyoto & Carbon Initiative (<i>Dr. A. Rosenqvist</i> , JAXA)
15:30 - 15:45	Break
15:45 - 17:15	Discussion and Summary

IGOS International Workshop

“Towards the implementation of the Integrated Global Observing Strategy (IGOS)”

February 4 - 6, 2004

Tokyo International Exchange Center “Plaza Heisei”

Global Water Cycle Theme Splinter Session

“Review of IGOS-P Theme Papers and recommendations for their implementation”

February 5 (Thu), 2004

International Conference Hall

Co-chairs:

Dr. Lawford (WCRP/GEWEX)

Prof. Nakamura (Nagoya Univ., Japan)

Program Coordinator and Rapporteur:

Dr. R. Oki (JAXA)

Morning session (Chair: *Prof. K. Nakamura*)

09:30 - 09:40	Objective of the sub-session (<i>Prof. K. Nakamura</i>)
09:40 - 10:10	IGOS-P water theme (<i>Dr. R. Lawford</i>)
10:10 - 10:40	Global Water System Project (<i>Dr. P. Kabat</i>)
10:40 - 11:00	WMO's activities for water cycle observation (<i>Dr. D. Hinsman</i>)
11:00 - 11:20	Current status and plans of precipitation forecasts by the JMA numerical weather prediction system (<i>Dr. T. Tsuyuki</i>)
11:20 - 11:40	Observing the Global Water Cycle: The Role of Observations from Space (<i>Prof. P. Arkin</i>)

11:40 - 13:30 Lunch

Afternoon session (Chair: *Prof. P. Arkin*)

13:30 - 14:15	Space observation for water theme (US (<i>Dr. R. Lawford</i>), JAXA (<i>Dr. R. Oki</i>), ESA (<i>Dr. S. Briggs</i>))
14:15 - 14:30	International initiatives relevant to water theme (GEO) (<i>Prof. T. Koike</i>)
14:30 - 14:45	Observation program for water cycle in Malaysia (<i>Dr. S. Moten</i>)
14:45 - 15:00	Water cycle in arid area (Mongolia) (<i>Dr. D. Azzaya</i>)
15:00 - 15:15	A Japan's action for international water hazard and risk management (<i>Mr. J. Yoshitani</i>)
15:15 - 15:35	Break
15:35 - 17:00	Discussion (Chair: <i>Dr. R. Lawford and Prof. K. Nakamura</i>)
17:00 - 17:30	Wrap up

IGOS International Workshop

“Towards the implementation of the Integrated Global Observing Strategy (IGOS)”

February 4 - 6, 2004

Tokyo International Exchange Center “Plaza Heisei”

Atmospheric Chemistry Theme Splinter Session

“Review of IGOS-P Theme Papers and recommendations for their implementation”

February 5 (Thu), 2004

Co-chairs:

Dr. Barrie (AREP, WMO) / Dr. Briggs (ESA)

Prof. Ogawa (JAXA)

Program Coordinator and Rapporteur:

Dr. Shirai (JAXA)

09:30 - 09:40	Opening Remarks (<i>Prof. Ogawa & Dr. Briggs</i>)
09:40 - 10:10	A status report of JMA activities for the WMO Global Atmosphere Watch (GAW) (<i>Dr. Makino (JMA)</i>)
10:10 - 10:40	Global Chemical Weather Forecasting System and its future view (<i>Dr. Takigawa (FRSGC)</i>)
10:40 - 11:10	JAL's Atmospheric Measurement Program - Current Program and Future Program - (<i>Mr. Suenaga (JAL Foundation)</i>)
11:10 – 11:25	Break
11:25 - 11:55	IGACO Status of Theme Report (<i>Dr. Barrie (WMO)</i>)
11:55 - 12:25	Ground-based remote sensing of atmospheric species and parameters - Network for the Detection of Stratospheric Change (NDSC) and related activities in Japan (<i>Dr. Nakane (NIES)</i>)
12:25 – 13:40	Lunch
13:40 - 14:10	CRL Ground-based observations of the atmosphere (<i>Dr. Murayama (CRL)</i>)
14:10 - 14:40	Effect of Anthropogenic Activities in Asian Continent on Ozone over the Western Pacific - Findings from PEACE Aircraft Campaigns and Needs for Satellite Measurements - (<i>Prof. Kondo (RCAST, Univ.of Tokyo)</i>)
14:40 - 15:10	Atmospheric Chemistry Observation at the Summit of Mt. Fuji: A Proposal for a Permanent Ground Base Platform of Free Troposphere (<i>Prof. Dokiya (Edogawa Univ.)</i>)
15:10 - 15:25	Break
15:25 - 15:55	Aerosols in Taiwan: Impacts on Regional Air Quality and Climate (<i>Prof. Liu (Research Center for Environmental Changes, Academia Sinica)</i>)
15:55 - 16:25	Objective of the MEXT Kyosei Project and IPCC scenario runs (<i>Dr. Maruyama (CRIEPI)</i>)
16:25 - 17:30	Discussion and Summary (<i>Dr. Barrie, Dr. Briggs and Prof. Ogawa</i>)
17:30	Adjourn

IGOS International Workshop

“Towards the implementation of the Integrated Global Observing Strategy (IGOS)”

February 4 - 6, 2004

Tokyo International Exchange Center “Plaza Heisei”

Geohazards Theme Splinter Session

“Review of IGOS-P Theme Papers and recommendations for their implementation”

February 5 (Thu), 2004

Conference Room #3

Co-chairs:

Dr. Marsh (BGS)

Dr. Ohkura (NIED)

Program Coordinator and Rapporteur:

Dr. Shimada (JAXA)

09:30 - 10:10	Introduction of the DISASTER monitoring by Space (<i>Dr. Marsh</i>)
10:10 - 10:30	Recommendation (Draft) (<i>Dr. Marsh and Dr. Ohkura</i>)
10:30 - 10:50	Break
10:50 - 11:10	International Charter “Space and Major Disasters” (<i>Ms. Kato (JAXA)</i>)
11:10 - 11:30	Monitoring systems for geohazards in NIED (<i>Dr. Ohkura (NIED)</i>)
11:30 - 11:50	Key Points for Volcanic Hazard Monitoring from the Space (<i>Dr. Ohmura (Kochi Women's College)</i>)
11:50 - 12:10	Combining space and ground data to understand how volcanoes work (<i>Dr. Briole (IPGP)</i>)
12:10 - 13:30	Lunch
13:30 - 13:50	Disaster monitoring from space (<i>Mr. Miyatake (Cabinet Office)</i>)
13:50 - 14:10	Interferometric observation of the volcanoes (<i>Dr. Ohkura (NIED)</i>)
14:10 - 14:30	The Capability of Differential SAR Interferometry to Landslide detection: A Case Study of Takisaka Landslide, Fukushima, Japan (<i>Dr. Furuta (JAXA)</i>)
14:30 - 14:50	Disaster Monitoring by PRISM and AVNIR-2 onboard ALOS (<i>Dr. Tadono (JAXA)</i>)
14:50 - 15:10	An Integrated Global Observation System for Earthquake Prediction (<i>Dr. Van Genderen</i>)
15:10 - 15:30	Break
15:30 - 16:30	Discussion and Summary (Chair: <i>Dr. Marsh and Dr. Ohkura</i>)

IGOS International Workshop

“Towards the implementation of the Integrated Global Observing Strategy (IGOS)”

February 4 - 6, 2004

Tokyo International Exchange Center “Plaza Heisei”

Coastal Theme Splinter Session

“Review of IGOS-P Theme Papers and recommendations for their implementation”

February 6 (Fri), 2004

Conference Room #2

Co-chairs:

Dr. DiGiacomo (JPL)

Dr. Iwasaki (NIED)

09:30 - 09:50	An Overview and Status of the IGOS Coastal Theme (<i>Dr. P. DiGiacomo, JPL</i>)
09:50 - 10:05	Coastal Hazards and Needs in Situ Observations (<i>Dr. S. Iwasaki</i>)
10:05 - 10:20	Tokyo-Bay Regeneration Project -and the usage of satellite data in the project- (<i>Dr. S. Yamao</i>)
10:20 - 10:35	Strategies for the <i>in-situ</i> monitoring of anthropogenic deterioration of coastal ecosystem - with special emphasis on the use of ferry - (<i>Dr. A. Harashima</i>)
10:35 - 10:50	THE CHALLENGE OF OBSERVING CORAL REEFS (<i>Dr. A. Dahl, UNEP</i>)
10:50 - 11:05	Coastal and Ocean Theme Correspondence (<i>Dr. E. Lindstrom, NASA</i>)
11:05 - 11:15	ALOS Coastal Land Monitoring- DEM Generation & Expected Applications - (<i>Dr. T. Tadono</i>)
11:15 - 11:25	SAR and Hyperspectral Applications for Coastal Waters (<i>Dr. D. DeLisle, CSA</i>)
11:25 - 11:35	Ocean Color Sensors for the coastal monitoring" (<i>Dr. H. Murakami</i>)
11:35 - 12:00	Group Discussion and Summary (Chair: <i>Dr. DiGiacomo and Dr. Iwasaki</i>)

IGOS International Workshop

“Towards the implementation of the Integrated Global Observing Strategy (IGOS)”

February 4 - 6, 2004

Tokyo International Exchange Center “Plaza Heisei”

Data Integration Splinter Session

“Cross-cutting Issues”

February 6 (Fri), 2004

International Conference Hall

Chair: *Prof. Koike* (Tokyo Univ., Japan)

09:30 - 09:40	Opening Remarks (<i>Prof. Koike</i> (Tokyo Univ.))
09:40 - 10:00	Integration of satellite observation data (<i>Prof. Koike</i> (Tokyo Univ.))
10:00 - 10:20	Integration of in-situ data (<i>Dr. S. Williams</i> (UCAR))
10:20 - 10:40	Integration of model outputs (<i>Dr. H. Luthardt</i> (Max-Planck-Institute for Meteorology))
10:40 - 10:50	The Challenge of Climate Monitoring (<i>Dr. P. Mason</i> (GCOS))
10:50 - 11:10	Global Mapping (<i>Dr. Nagayama</i> (MLIT))
11:10 - 11:30	Data Integration Strategy (<i>Prof. Shibasaki</i> (Tokyo Univ.))
11:30 - 11:40	Break
11:40 - 12:00	Discussion and Summary

IGOS International Workshop

“Towards the implementation of the Integrated Global Observing Strategy (IGOS)”

February 4 - 6, 2004

Tokyo International Exchange Center “Plaza Heisei”

Capacity Building Splinter Session

“Cross-cutting Issues”

February 6 (Fri), 2004

Conference Room #1

Chair: *Prof. Murai* (Tokyo and Keio Univ.)

09:30 - 09:40	Opening Remarks (<i>Prof. Murai</i>)
09:40 - 10:00	NOAA and MODIS mosaic data distribution (<i>Prof. Yasuoka</i> (Tokyo Univ.))
10:00 - 10:20	Digital Asia (<i>Prof. Fukui</i> (Keio Univ.))
10:20 - 10:40	JAXA's contribution to Remote Sensing and GIS capacity building activities in Asian Region (<i>Dr. Lal Samarakoon</i> (GIS Application Center/AIT))
10:40 - 11:00	JERS-1 Satellite Data Dissemination (<i>Dr. Ake Rosenqvist</i> (EORC/JAXA))
11:00 - 11:20	e-Learning (Remote education of Remote Sensing and GIS) (<i>Prof. Murai</i>)
11:20 - 11:40	Break
11:40 - 12:00	Discussion and Summary

IGOS International Workshop

“Towards the implementation of the Integrated Global Observing Strategy (IGOS)”

February 4 - 6, 2004

Tokyo International Exchange Center “Plaza Heisei”

Plenary session

“Recommendations for IGOS implementations”

February 6 (Fri), 2004

International Conference Hall

Chair: *Prof. Ogawa*

Report of splinter sessions (IGOS themes)

13:30 - 13:40	Ocean Theme
13:40 - 13:50	Global Carbon Observation Theme
13:50 - 14:00	Global Water Cycle Theme
14:00 - 14:10	Atmospheric Chemistry Theme
14:10 - 14:20	Geohazards Theme
14:20 - 14:30	Coastal Theme

Report of splinter sessions (cross-cutting issue)

14:30 - 14:40	Data Integration
14:40 - 14:50	Capacity Building

14:50 - 15:10 Break

15:10 - 16:40 **Panel discussion “How can IGOS-P Themes best be developed?”**

(Moderator: *Prof. Shimoda* (Tokai Univ., EORC/JAXA)),

Panelists:

Dr. Lindstrom (NASA),
Dr. Lawford (WCRP),
Dr. Marsh (BGS),
Dr. Mason (GCOS),
Dr. Furuhamama (CEOS/SIT, JAXA),
Dr. Hinsman (WMO),
Dr. DiGiacomo (NASA/JPL)

16:40 - 17:00 Break

17:00 - 17:30 Conclusions and recommendations of the workshop (*Prof. Ogawa*)

17:30 - 17:35 Closing Remarks (*Dr. Furuhamama*)