

**Preliminary report of
Joint RA II/V Workshop on
WIGOS for DRR
(12-14 October, Jakarta, Indonesia)**

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Background

- Enhancement of Member's capabilities for weather forecasts and warnings
 - through the improvement of data sharing and data integration across the Southeast Asia region - WIGOS implementation activities in RA II and RA V.
- Focus on the observing systems that produce data and products most relevant for emergency management
 - such as surface-based remote sensing (Weather Radars, Lightning Detection systems), and integrated satellite systems, considering the data sparse areas of both Regions.

Background

- Create synergies to improve data **availability**, geographic **coverage**, **timeliness** and **quality** of observations in the region
 - primarily those relevant for weather watch and nowcasting activities
- Identify the issues/challenges, as well as the solutions for the effective interoperability of Member's observing systems that enable real-time exchange of meteorological data and products, in the Southeast Asia and surrounding areas.
- Collaboration with and integration of non-NMHSs data sources, for the use and benefit of weather related emergency activities of Members in that sub-region.

Program of the workshop

12 October 2015 (Day 1)

- Opening and Organization of the workshop
- Country reports
 - ✓ 14 presentations: Australia, Bangladesh, Brunei Darusallam, Hong Kong, Indonesia, Japan, Korea, Lao, Malaysia, Myanmar, Philippines, Singapore, Thailand, Vietnam
- OSCAR/Surface
 - ✓ OSCAR tool (Observing Systems Capability Analysis and Review)

13 October 2015 (Day 2)

- Invited Speakers
 - ✓ Address the interoperability of observing systems for the real-time exchange of meteorological data and products :
 - Weather forecasts and warnings
 - **Weather radars**
 - **Meteorological satellites** (*three presentations: from CMA, JMA, KMA*)
 - Lightning detection systems
 - Others: GNSS, “rainfall from cell towers”

Program of the workshop

13 October 2015 (Day 2-3)

- Review, Discussion and Refinement of Common Projects
 - ✓ The analysis of gaps and issues in both RAs, and how joint WIGOS projects and agreements for RA II and RA V can enhance relevant data and products for DRR
 - ✓ Two sub-sessions:
 - Radars data, to be chaired by Mr. Y.Tanaka
 - Satellites data, to be chaired by Mr. D.Kim
- Conclusions and Recommendations
 - ✓ The joint RA II/RA V projects should include specific tasks, timeline/milestones and people involved (members and leaders)
 - ✓ Two sub-sessions: radars data, and satellites data,
- Closure of the Workshop

WIGOS Project on Satellite Data

Overall goal of project

- All Members in the target region **to receive and be able to interpret and use geostationary satellite data as full spatial, spectral and temporal resolution subsets** for their national region of interest, including the ability to generate key products
- **To develop a protocol** for countries in target area to request and receive and ingest event-driven rapid-scan geostationary satellite data in support of Disaster Risk Reduction

WIGOS Project on Satellite Data

- Purpose of project
 - **To improve the utilization of geostationary satellite data by NMHSs** in support of services, particularly for Disaster Risk Reduction
- Deliverables
 - 1) **Inventory of national capabilities** in terms of (i) data access (CMA, JMA, KMA), (ii) data processing capabilities, and (iii) trained staff in using and interpreting satellite data and products
 - 2) **Documented requirements for products relevant for DRR** (e.g. convective systems, tropical cyclones, and volcanic ash)
 - 3) Adequate capacity in all Members to meet requirements listed under 2)
 - 4) **Protocol for NMHS requests to satellite operators for event-driven rapid scan data** covering national areas of interest for DRR

Jakarta Declaration

Propose,

To initiate two regional projects to be developed under the WIGOS umbrella, involving the following Members: Australia, Bangladesh, Brunei, Cambodia, China, East Timor, Hong Kong China, Indonesia, Japan, Lao PDR, Malaysia, Myanmar, Papua New Guinea, Philippines, Republic of Korea, Singapore, Thailand, Vietnam:

- a. A “**Joint RA-II/RA-V WIGOS Satellite Data Project**” aimed at (i) strengthening the capabilities of all Members to use geostationary satellite images and derived products in support of Disaster Risk Reduction as specified in the Annex to this declaration, and (ii) developing a protocol for the NMHSs in the project countries to request event-driven rapid-scan imagery for their respective national areas of interest,
- b. A “**Joint RA-II/RA-V WIGOS Radar Data Project**” aiming at (i) improvement of data quality of existing radars, (ii) development and expansion of national radar networks, (iii) near real time international exchange of radar data, and (iv) development of «sub-regional» radar data centre(s);

Thank you