

Appendix II-A

Draft Project Plan for Radar data

Radar data for disaster risk reduction in RA-II/RA-V (South East Asia Region)

- Overall goals :
 - Improvement of data quality from the existing Radar networks;
 - Expansion and integration of national Radar networks;
 - International exchange of Radar data

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Level of products?

- Create Radar composite image (mosaic) in each member country
- Exchange national mosaic imagery
- Processable of data to be exchange in the future

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Radar data (continued)

- Issues to be discussed
 - Specific source of requirements for Global observation
 - OSCAR
 - Level of products?
 - Data formats
 - Are common formats supported across system vendors?
 - Possible role for WMO
 - Joint formats
 - Support for procurement processes (guidance material)
 - Rain gauge-based calibration
 - Hardware maintenance

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Data formats

- Are common formats supported across system vendors? (specify one common format for exchanging data process)
- For the processable exchange of data, use WMO standardized data format after conversion from the original data format (different manufactures)

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Specific source of requirements

The requirements from the nowcasting application area for Global observations should contribute to design of Radar networks in support of DRR activities in the Region.

- OSCAR

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Possible role for WMO

- Joint formats : WMO existing guidelines to be reference in the project plan
- Support for technical specification for the purchase of equipment (further development of guidance material)
- Rain gauge-based calibration : WMO to encourage Members to generate/develop QPE following the existing methods being used and evolving.

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Hardware maintenance

- Has to be considered as a basic requirement for all Radar systems (the WMO standard practices and procedures should be referred)
- The calibration of Radar systems has to be ensured. WMO recommends that Radar systems should be calibrated regularly.

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Purpose of project

- To expand and integrate the national Radar networks;
- Metrics of success :
 - 1) Number of Members who established Nation wide Radar mosaic
 - 2) Number of new weather Radars that actually improve the geographic coverage, including border areas

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Possible RA-II/RA-V WIGOS Radar Project

(joint with ESCAP/WMO Typhoon Committee, ASEAN Subcommittee on Meteorology and Geophysics and SWFDP for Southeast Asia)

- Contents of project plan:
 - Purpose of project :
 - Metrics of success
 - Deliverables
 - Partners
 - Implementation steps, including capacity development
 - Timeline
 - Funding requirements (if any)

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Purpose of project

- To achieve the International exchange of Radar data.
- Metrics of success :
 - 1) Number of Members exchanging the mosaic data in the Region
 - 2) Number of Members ready to make available processable Radar data for international exchange

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Purpose of project

- To improve data quality from the existing Radar networks;
- Metrics of success :
 - 1) Number of weather Radars performing Radar system maintenance and calibration according to the recommendation (WMO No.8).
 - 2) Number of weather Radars using Quality control procedures on the base reflectivity (dBz)
 - 3) Number of weather Radars to be used as nation wide Radar mosaicSurveys to the Members should be made at the beginning and at the end of the Project.

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Deliverables

- Reports with analysis of the surveys results
- The reports of the outcomes of the cooperation activities among Members

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Partners

Participating partners :

- ASEAN Sub-Committee on Meteorology and Geophysics (SCMG)
- ESCAP/WMO Typhoon Committee
- RA II EG-WIGOS theme leaders for surface-based remote sensing for DRR; Leaders of Project III-2 (Malaysia and Thailand);
- RA V WG-INFR and TT-WIGOS

Supporting partners :

- CBS ET-SBO
- CIMO ET on Operational Remote Sensing

Coordinating Group should be established for promoting and coordinating the activities of the existing Projects among all partners. All participating partners should be represented in this Coordinating Group.

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Funding requirements (if any)

- Coordination Group meeting
- For the cooperative activities the Coordinating Group will identify the financial needs

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Implementation steps, including capacity development

- Establishment of the Coordinating Group;
- Prepare and circulate the surveys (regarding all the metrics). Elaborate and publish the Report on the survey;
- Identify and prioritize the actions according to the result of the surveys with specific capacity development activities among Members, to cope with the needs of the National Radar networks in terms of improving Radar coverage, performances and data quality and National integration (mosaic);
- The Coordinating Group will draft a Implementation Plan for the exchange of Radar images and processable data considering possible data centers and procedures. As a first step the Coordinating Group will promote the bilateral exchange of data between the Members of the Region.

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Timeline

Activities	Timeline (months)												
	3	6	9	12	15	18	21	24	27	30	33	36	
Establishment of the Coordinating Group													
Prepare and circulate the surveys (regarding all the metrics). Elaborate and publish the Report on the survey													
Identify and prioritize the actions according to the result of the surveys with specific capacity development activities among Members													
Cope with the needs of the National Radar networks in terms of improving Radar coverage, performances and data quality and National integration (mosaic)													
The Coordinating Group will draft a Implementation Plan for the exchange of Radar images and processable data considering possible data centers and procedures. As a first step the Coordinating Group will promote the bilateral exchange of data between the Members of the Region													

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