

**JMA/WMO Workshop on  
Effective Tropical Cyclone Warning in Southeast Asia  
Tokyo, Japan, 11-14 March 2014**

**The objectives of the Workshop**

- To promote understanding of participating countries on the latest tropical cyclone analysis/forecasting techniques and products.
- To identify challenges of those countries in improving their operational forecasting and warning services.
- To discuss ways to address the challenges including external assistance.

**Programme**

| <i>Time</i>                    | <i>Item</i>  | <i>Presenter</i>                       |
|--------------------------------|--|--|
| <b>Day 1, Tuesday 11 March</b> |  |  |
| <b>9:00 - 10:00</b>            | <b>Opening (Chair: Mr FUJITA)</b>  |  |
| 9:00 - 9:10                    | Welcome address  | Dr Hatori<br>Director-General<br>(JMA) |
| 9:10 - 9:15                    | Opening address  | Ms Lomarda<br>(WMO)                    |
| 9:15 - 9:25                    | Self Introduction  |  |
| 9:25 - 9:40                    | Organization of the workshop   | Mr Koide<br>(JMA)                      |
| 9:40 - 9:45                    | Group photo  |  |
| 9:45 - 10:00                   | <b>Coffee Break</b>  |  |
| <b>10:00 - 11:35</b>           | <b>Session 1: Keynote Lecturers (Chair: Mr FUJITA)</b>                   |  |
| 10:00 - 10:45                  | Tropical Cyclone Programme: Priority Issues and Future Challenges        | Ms Lomarda<br>(WMO)                    |
| 10:45 - 10:55                  | Research's Role in Helping Society Cope with High Impact Weather Events  | Dr Nakazawa<br>(WMO)                   |
| 10:55 - 11:35                  | Japan's ODA for NHMSs in Southeast Asia                                  | Mr Katsumata<br>(JICA)                 |
| <b>Lunch Break</b>             |  |  |
| <b>13:30 - 18:15</b>           | <b>Session 2: Country Reports from Invited Members (Chair: Mr KOIDE)</b> |  |
| 13:30 - 15:30                  | Country Reports (30 minutes for each Member)                             | Bangladesh<br>Cambodia<br>Indonesia    |

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|                           |  | Lao P.D.R.  |
| 15:30 - 15:45             | <b>Coffee Break</b>  |   |
| 15:45 - 18:15             | Country Reports (30 minutes for each Member)   | Malaysia<br>Myanmar<br>Thailand<br>the Philippines<br>Vietnam |
| 19:00 -                   | <b>Welcome Reception</b>   |   |
| Day 2, Wednesday 12 March |  |   |
| 8:30 - 11:30              | <b>Session 3: Tropical Cyclogenesis Monitoring/Prediction (Chair: Dr YAMAGUCHI)</b>  |   |
| 8:30 - 9:20               | Tropical Cyclogenesis Monitoring at RSMC Tokyo (Incl. Introduction to RSMC Tokyo ) and Tropical Cyclogenesis Prediction using TIGGE data | Mr Ueno (JMA)<br>Dr Yamaguchi (MRI/JMA)                       |
| 9:20 - 10:05              | JTWC TC Operations Overview & Tropical Cyclogenesis Monitoring   | Mr. Fukada (JTWC)   |
| 10:05 - 10:20             | <b>Coffee Break</b>  |   |
| 10:20 - 11:05             | An overview of RSMC Miami (incl. Tropical Weather Outlook)   | Dr Avila (NWS)  |
| 11:05 – 11:30             | Discussion   |   |
| <b>Lunch Break</b>        |  |   |
| 13:00 - 16:30             | <b>Session 4: Tropical Cyclone Analysis (Chair: Mr WROE)</b>   |   |
| 13:00 - 14:45             | TC Analysis (Introduction to Dvorak, ADT, and Microwave Data)  | Mr Wroe (NWS)   |
| 14:45 - 15:30             | Microwave-TC Intensity estimation  | Mr Oyama (MRI/JMA)  |
| 15:30 - 15:45             | <b>Coffee Break</b>  |   |
| 15:45 - 16:15             | Introduction to the JMA’s next generation meteorological satellite, Himawari-8/9   | Mr Izumikawa (JMA)  |
| 16:15 - 16:30             | Discussion   |   |
| 16:30 – 17:45             | <b>Session 5: Tropical Cyclone Track &amp; Intensity Forecasting (Chair: Mr FUJITA)</b>  |   |
| 16:30 - 17:30             | Recent Developments of JMA Operational NWP Systems and WGNE Intercomparison of Tropical Cyclone Track Forecast                           | Mr Nakagawa (JMA)   |

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| 17:30 - 17:45            | Discussion  |                      |
| Day 3, Thursday 13 March |   |                      |
| 8:30 - 12:00             | Session 5 (continued)   |                      |
| 8:30 – 10:00             | Overview of JTWC Track and Intensity Forecasting Procedures   | Mr Fukada (JTWC)     |
| 10:00 - 10:10            | Coffee Break  |                      |
| 10:10 - 12:00            | Exercise of TC Forecasts using Web ATCF   | Mr Fukada (JTWC)     |
| Lunch Break              |   |                      |
| 13:30 -                  | Session 5 (continued)   |                      |
| 13:30 - 15:30            | Introduction to TC Forecasts at NHC   | Dr Avila (NHC)       |
| 15:30 - 15:50            | Coffee Break  |                      |
| 15:50 -                  | Exercise of TC Forecasts  | Dr Avila (NHC)       |
|                          | Visit to Operation Room (If time permits)   |                      |
| Day 4, Friday 14 March   |   |                      |
| 8:30 - 12:30             | Session 6: Effective Early Warning: Lessons learnt from past TC Disasters (Chair: Mr KOHNO and Mr FUJITA) |                      |
| 8:30 - 9:15              | Early Warning System in Japan and Lessons learnt from recent TC disasters                                 | Mr Igarashi (JMA)    |
| 9:15 - 10:00             | JMA's International Cooperation in Storm Surge Forecasts in Southeast Asia                                | Mr Kohno (JMA)       |
| 10:00 - 10:15            | Coffee Break  |                      |
| 10:15 - 11:00            | Response to & Lessons learnt from Typhoon Haiyan  | Mr Paciente (PAGASA) |
| 11:00 - 11:45            | NWS Improvement plan of Storm Surge Forecasts and Warnings based on Lessons Learnt from Sandy             | Dr Rhome (NWS)       |
| 11:45 - 12:30            | Discussion  |                      |