

JMA/WMO Workshop on Quality Management of Surface  
Observations – RA II WIGOS Project  
Tokyo, Japan, 19-23 March 2018

AGENDA

Opening

Session 1: WMO Integrated Global Observing System (WIGOS)

1.1) *Keynote addresses*: (1) The WMO Integrated Global Observing Systems; Current Status and Planned Regional Activities, (2) CIMO in support of fit-for-purpose measurement

1.2) Quality monitoring of observation data in NWP Centre and overview of the WDQMS

1.3) Regional WIGOS Project in RA II

1.4) Review of the results of the questionnaire on Quality Management of Surface Meteorological Observations in RA II

1.5) *Poster session*: Country report from participating Members: Status of quality management in rainfall observation

Session 2: Regional Instrument Centre (RIC)

2.1) Introduction of RICs (RICs Tsukuba, Beijing and Manila)

2.2) Practical use of standard meteorological instruments in domestic meteorological observation networks

2.3) Site visit to RIC Tsukuba

Session 3: Quality management of surface observations

3.1) Quality management in rainfall observation

3.2) Accuracy of precipitation measurements, instrument calibration

and techniques for data correction and interpretation

Session 4: Conclusion of the workshop

4.1) Discussion on future activities/actions for improvement of quality management of observation data in RA II

4.2) Outcomes of the workshop

4.3) Adoption of the draft summary

Closure

EXPLANATORY NOTES

Opening

Session 1: WMO Integrated Global Observing System (WIGOS)

1.1) *Keynote addresses:* (1) The WMO Integrated Global Observing Systems; Current Status and Planned Regional Activities, (2) CIMO in support of fit-for-purpose measurement

*The WMO Secretariat will provide an overview and future plans of WIGOS, including information about a) what will change in each country by introduction of WIGOS, b) expectations to NMHSs in implementation of WIGOS and c) framework to support each NMHS in WIGOS implementation.*

1.2) Quality monitoring of observation data in NWP Centre and overview of the WDQMS

*The expert from NWP Centre of JMA will provide information about quality monitoring of meteorological observation data in NWPC, as one of the functions of WDQMS (WIGOS Data Quality Management System). The overview of the WDQMS will also be provided.*

1.3) Regional WIGOS Project in RA II

*The project coordinator will provide an overview of the WIGOS Project in RA II (including backgrounds and future plan) and an aim of the workshop.*

1.4) Review of the results of the questionnaire on Quality Management of Surface Meteorological Observations in RA II

*The results of the questionnaire on Quality Management of Surface Meteorological Observations in RA II will be reported by Japan and reviewed by all participants.*

1.5) *Poster session:* Country report from participating Members: Status of quality management in rainfall observation

*Participating Members will report their status of quality management in rainfall observation.*

Session 2: Regional Instrument Centre (RIC)

2.1) Introduction of RICs (RICs Tsukuba, Beijing and Manila)

*RICs Tsukuba, Beijing and Manila will provide information about each RIC and their services.*

2.2) Practical use of standard meteorological instruments in domestic meteorological observation networks

*RIC Tsukuba will provide a brief lecture on traceability and system of standard meteorological instruments. Participating Members will review the current status and challenges on calibration of meteorological instruments in their countries, and will discuss how to address the challenges.*

2.3) Site visit to RIC Tsukuba

Session 3: Quality management of surface observations

3.1) Quality management in rainfall observation

*JMA experts will provide a brief lecture on quality management of meteorological observations and give some topics for discussion. Participating Members will discuss on each topic in small groups and*

*present the results of the discussions:*

- *Importance and essentials of quality management in rainfall observation;*
- *Procedures and challenges for quality management in rainfall observation.*

3.2) Accuracy of precipitation measurements, instrument calibration and techniques for data correction and interpretation

*Experts from the WMO/CIMO Lead Centre "B. Castelli" on Precipitation Intensity will present an overview of the most common biases affecting liquid/solid precipitation measurements using catching and non-catching type gauges. The performance of various instruments will be recalled, including the results of the recent WMO Intercomparison campaigns. Methods for laboratory and field calibration will be described, with reference to the available standards and WMO recommendations. Data correction and interpretation algorithms will be discussed in both real-time and post-processing applications.*

#### Session 4: Conclusion of the workshop

4.1) Discussion on future activities/actions for improvement of quality management of surface observations in RA II

*Participating Members will discuss on given topics (related to outcomes from the workshop and common challenges on quality management of meteorological observation in this region) in small groups and will present results of the discussions. Then Participating Members will discuss on the solutions proposed by each group.*

4.2) Outcomes of the workshop

*The project coordinator will report and conclude outcomes from the sessions of the workshop.*

4.3) Adoption of the draft summary

*All participants will review and adopt the draft summary of the workshop.*

Closure