

# JMA/WMO Workshop on Quality Management in Surface, Climate and Upper-air Observations in RA II (Asia)

**27-30 July 2010**  
**Tokyo, Japan**

## Hosts

- Japan Meteorological Agency (JMA)
- World Meteorological Organization (WMO)
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## Meeting goals

- To identify the requirements of NMHSs, particularly those of developing countries, in RA II for the implementation of weather, climate and upper-air observations, their provision and their quality management;
- To assess the current status of the above-mentioned issues;
- To facilitate communication between advanced centres and members in developing countries;
- To make recommendations for Members of RA II to acquire/enhance the capability to manage the quality of observational data and to make full use of the data.

## Programme

Time	Item	Presenter(s)
<b>Day 1, Tuesday 27 July</b>		
08:45	<i>Bring participants from Hotel</i>	
09:00	<i>Registration at the entrance hall of the JMA Headquarters</i>	
<b>09:30 – 10:00</b>	<b>Opening</b>	
	Welcome address	Yuji Kano (JMA )
	Opening address	Miroslav Ondras (WMO)
	Self introduction of participants	
	Organization for the workshop	Hakaru Mizuno (JMA)
<b>10:00 – 12:05</b>	<b>Session 1: User Requirements</b> (Chair: Mr. Mizuno)	
10:00 – 10:45 (30+15)	Climate Services Perspective	Takafumi Umeda (Climate Prediction Division, JMA)
10:45 – 11:00	<i>Coffee</i>	
11:00 – 11:45 (30+15)	The Importance of Data Quality Control in Disaster Prevention and Mitigation	Kazuhiko Nagata (Forecast Division, JMA)
11:45 – 12:30 (30+15)	The Impact of Observational Data on Numerical Weather Prediction	Hirokatsu Onoda (NWP Division, JMA)
	Group picture	
12:40 – 14:00	<i>Lunch</i>	
<b>14:00 – 16:45</b>	<b>Session 2: Standardization</b> (Chair: Dr. Ondras)	
14:00 – 15:00 (45+15)	WMO/CIMO Perspective	Miroslav Ondras (WMO)
15:00 – 16:00 (45+15)	Siting Classification for Surface Observing Stations on Land	Michel Leroy (Météo France)
16:00 – 16:15	<i>Coffee</i>	
16:15 – 16:45 (20+10)	Lecture on the RIC-Beijing (Regional Instrument Centres)	Kejun Wu (China)
<b>16:45 – 18:25</b>	<b>Session 3: Siting and metadata</b> (Chair: Dr. Pokrovsky)	
16:45 – 17:05	Survey results	Kotaro Bessho (JMA)
17:05 – 17:25	Current state and development potential of	Oleg M. Pokrovsky

	Roshydromet surface meteorological, upper air and climate monitoring networks	(Russian Federation)
17:25 – 17:45	Updated Station Documentation and Metadata Pilot Case: Phetchaburi Observation Station	Songkran Agsorn (Thailand)
17:45 – 18:05	Report on The Status of Weather Observation in Cambodia	Peou Phalla (Cambodia)
18:05 – 18:25	Perspective of Department of Hydrology and Meteorology (DHM) in Nepal	Rajendra Prasad Shrestha (Nepal)
19:00	Welcome Reception	
Day 2, Wednesday 28 July		
09:30 – 12:10	Session 4: Sensors/Instruments (Chair: Mr. Lee)	
09:30 – 10:30	Planning and Situation of the Meteorological Observation in The Republic of Korea	Hyuk Je Lee (Republic of Korea)
10:30 – 10:50	Status of Meteorological Network, Observations and Data Management	Singthong Pathoummady (Lao People's Democratic Republic)
10:50 – 11:10	Coffee	
11:10 – 11:30	Observation network of Mongolia	Norov Battur (Mongolia)
11:30 – 11:50	Meteorological Observations and Instrumental Systems for Meteorological services in Sri Lanka	Dayananda Malavige Don (Sri Lanka)
11:50 – 12:10	One of issues related to replacement the manual observational weather stations with automated ones	Merkushkin Aleksandr (Uzbekistan)
12:10 – 13:40	Lunch	
13:40 – 16:00	Session 5: QA/QC (Chair: Mr. Mok)	
13:40 – 14:00	Survey results	Kotaro Bessho (JMA)
14:00 – 14:30	An Integrated Meteorological Data Quality Assurance System for operation of the Automatic Weather Station (AWS) Network in Hong Kong	Hing-yim Mok (Hong Kong, China)
14:30 – 15:00	Quality Assurance and Quality Control of Surface Observations in JMA	Hakaru Mizuno (Japan)
15:00 – 15:20	Kazhydromet - National Hydrometeorological Service Republic of Kazakhstan	Zainuldinova Dinara (Kazakhstan)
15:20 – 15:40	Current Status and Future Plan of Surface, Climate and Upper-air Observations of National Hydro-Meteorological Service of Viet Nam	Nguyen Dinh Luong (Viet Nam)
15:40 – 16:00	Coffee	
16:00 – 18:00	Session 6: Training (Chair: Mr. Gupta)	
16:00 – 16:10	Survey results	Kotaro Bessho (JMA)
16:10 – 16:40	Training Facilities in India Meteorological Department	Mahesh Kumar GUPTA (India)
16:40 – 17:00	Surface, Climate and Upper-air Observations and Training System in Pakistan	Muhammad Touseef ALAM (Pakistan)
17:00 – 17:20	Country report for Bangladesh	Shamsuddin Ahmed (Bangladesh)
17:20 – 17:40	Country report for Kyrgyzstan	Svetlana Vandasheva (Kyrgyzstan)
17:40 – 18:00	Country report for Kuwait	Essa Ramadan Mohammad (Kuwait)
18:00 – 18:20	QUALITY MANAGEMENT IN SURFACE,	Zhang Hongzheng (China)

	CLIMATE AND UPPER-AIR OBSERVATIONS IN CHINA	
18:25 –	Working group meeting for draft summary	Working group member
Day 3, Thursday 29 July (Visit to RIC-Tsukuba, Aerological Observatory and Meteorological Research Institute)		
08:00	<i>Bus pickup from JMA Headquarters</i>	
	<b>Session 7: RIC-Tsukuba and Upper-air observations</b> (Chair: Mr. Mizuno)	
	<b><i>Meteorological Instruments Center (MIC)</i></b>	
10:00 – 10:20	Overview of MIC	Toshihiko Kobayashi (MIC)
10:20 – 11:00	Research and development at MIC	Hiroshi Kawamura, Mariko Kumamoto (MIC)
11:00 – 12:00	Technical tour of Calibration rooms	MIC staffs
12:00 – 13:10	<i>Lunch (served by JMA)</i>	
	<b><i>Aerological Observatory</i></b>	
13:10 – 13:35	Upper-air observation network in Japan	Kenji Akaeda (JMA)
13:35 – 13:55	Upper-air observation in Tateno	Hiroatsu Maki (Aerological Observatory)
13:55 – 14:10	Radiation observation	Staffs of Aerological Observatory
14:10 – 14:20	Observation of the Lower Atmosphere	Staffs of Aerological Observatory
14:20 – 14:40	Ozonesonde observation	Staffs of Aerological Observatory
14:40 – 15:10	<i>Coffee</i>	
	<b><i>Meteorological Research Institute (MRI)</i></b>	
15:10 – 15:20	Overview of MRI	Hiroshi Takahashi (MRI)
15:20 – 15:55	Lecture and tour of wind profiler	Ahoro Adachi (MRI)
16:00 – 16:30	Lecture and tour of wind tunnel	Shinji Nakagawa (MRI)
16:40	<i>Bus pickup from MRI</i>	
Day 4, Friday 30 July,		
<b>09:30 – 12:15</b>	<b>Session 8: Summary</b>	
09:30 – 10:30	- Technical tour of JMA Headquarters ➤ Observational operation center ➤ Forecasting operation center ➤ Wind tunnel facility	Yoshiaki Takeuchi (JMA) Shun-ichi Yamaguchi (JMA) Masato Fukuda (JMA)
10:30 – 10:45	<i>Coffee</i>	
10:45 – 12:15	- Outcomes of the sessions - Adoption of the report	Hakaru Mizuno (JMA)
<b>12:15</b>	<b>Closure of the Workshop</b>	