



Form for Regular Reporting of Regional Instrument Centres

(please expand the cells as required to properly reflect your activities)

Terms of Reference for Regional Instrument Centres (RICs) are available under:
<https://www.wmo.int/pages/prog/www/IMOP/instrument-reg-centres.html>

Regional instrument Centre - General Information	
Name of RIC	RIC Beijing
RIC's website	ric-beijing.cn (in building)
Institute hosting RIC	Meteorological Observation Centre of CMA
City	Beijing
Country	China
Regional Association	RA II

Contact Person for the Regional Instrument Centre	
Courtesy Title	Deputy of National Centre for Meteorological Metrology, China
First name	Xuejing
Family name	NAN
Street and number	No. 46, Zhongguancun Nandajie
Postal code	100081
City	Beijing
State/Province	Beijing
Country	China
Tel. number(s)	8610-68400493
Fax number(s)	8610-68409767
Email(s)	576809156@qq.com
Has contact person changed since your last report?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

If yes, provide the previous contact person?

RIC's staff

(Please specify the number of your managerial and technical staff)

- Managerial: 6
- Technical: 17

Interlaboratory Comparisons

Have you organized any interlaboratory comparison in the last calendar year?
(If yes, please specify the event(s) and final reports, including their web links, if available):

- No

Have you participated in any interlaboratory comparison in the last calendar year? (If yes, please specify the event(s) and the report(s), including their web links, if available):

- Yes, organized by RIC Tsukuba.

Applied International Standards/Norms

Is your RIC accredited according to ISO/IEC 17025?

Yes (please, specify the following):

Accreditation/certification body: China National Accreditation Service for Conformity Assessment(CNAS)

Date of the last audit: 2018-06-27

Link to the Certificate of Accreditation: ISO/IEC 17025 and relevant requirements of CNAS

No (please, indicate if you have already applied any quality management system, and provide a reason for a lack of accreditation, if possible) -

Assessment by a recognized authority other than accreditation body

Was your RIC assessed by a recognized authority other than an accreditation body? (e.g. certification body, NMI, another RIC)

Yes (please, specify the following):

Name of a recognized authority:

Date of the last assessment:

Standard against which the assessment was carried out:

No (please, explain why, if possible) – We have accredited according to ISO/IEC 17025.

WMO/CIMO [Evaluation Scheme \(excel file\)](#)

Have you filled out the WMO/CIMO Evaluation Scheme (excel) and submitted it to the WMO Secretariat?

Yes (please, specify when you submitted the most recent one):before the end of May 2019

No (please, explain why, if possible)

-

Calibrations of the Members' Instruments

Which calibration services, were provided by your RIC for other Members/countries in the last calendar year? (Please specify)

Year	Type of instruments	Number of calibrated instruments	WMO Member/Country
2018	Atmospheric pressure, Radiation, Temperature	4	Mongolia
2018	Wind, Atmospheric pressure	3	Pakistan

Capacity Development and Training Activities

Which capacity development/training activities have been carried out by your RIC within the Region in the last calendar year? (please specify events, WMO Members that participated and the number of participants)

- No
-
-

Has your RIC provided services on capacity development and training outside the Region in the last calendar year? (If yes, please specify to whom and when)

- No
-
-

Which guidance documents, standard procedures or other publications were developed and published by your RIC in the last calendar year? (Please, include full reference and web-link if available)

- No
-

Utilization of Resources and Capabilities of the Region

(Have you collaborated with other RICs, RRCs, RTCs, NMHSs or NMIs on standardization of meteorological and other related environmental measurements in the last calendar year? If yes, please specify when and how)

- No
-

Recent Changes in Circumstance

Have there been any changes in your RIC's capabilities in the last calendar year? (If so, please specify)

- No
-

Have there been any significant changes in your RIC's infrastructure in the last calendar year? (If so, please specify)

- No
-

Have there been any changes in your staffing in the last calendar year? (If so, please specify)

- 2 managerial staff added.
-

Future Plans and any other relevant information

(Please provide plans/projects of your RIC for this calendar year, and add any other information you find relevant about your RIC)

- The website of RIC Beijing will be built well in 2019.
-

Are you in agreement with publishing this reporting form on WMO/CIMO website?

Yes

No

2019/2/22

Date

LI Changxing

Name and Signature of Person in Charge of RIC

ANNEX

(Following information will be a part of your RIC's website as published on the [WMO/CIMO website](#))

Specific information on Instrument Calibration Capabilities					
Temperature:					
Instrument Undergoing Calibration	Calibration Range	Reference Standard, Equipment	Calibration and Measurement Capability (CMC)*	Traceability of Reference Equipment	
				Last Standard Calibration Date	Calibration Body
Standard Mercury-in-Glass Thermometers; Pt Resistance Thermometers	-60 to 80 °C	First-class Standard Pt Resistance Thermometer	U=0.05 °C	2018/3/29	National Institute of Metrology, China
Status of accreditation (date of the latest accreditation): 2018-06-27 Link to the accreditation certificate: ISO/IEC 17025 and relevant requirements of CNAS Accreditation body: China National Accreditation Service for Conformity Assessment(CNAS)					
Relative Humidity:					
Instrument Undergoing Calibration	Calibration Range	Reference Standard, Equipment	Calibration and Measurement Capability (CMC)*	Traceability of Reference Equipment	
				Last Standard Calibration Date	Calibration Body
Standard Ventilation Psychrometers; Hygrometers	(5~98)%RH	Precision Dew-point Hygrometer	U=(0.4~1.5)%RH	2018/4/12	National Institute of Metrology, China
Status of accreditation (date of the latest accreditation): 2018-06-27 Link to the accreditation certificate: ISO/IEC 17025 and relevant requirements of CNAS Accreditation body: China National Accreditation Service for Conformity Assessment(CNAS)					
Atmospheric pressure:					

Instrument Undergoing Calibration	Calibration Range	Reference Standard, Equipment	Calibration and Measurement Capability (CMC)*	Traceability of Reference Equipment	
				Last Standard Calibration Date	Calibration Body
Digital barometers	90 to 3500 hPa	Gas Piston Pressure Gauge	(100~1200) hPa U=(1~4)Pa	2017/5/26	National Institute of Metrology, China
Status of accreditation (date of the latest accreditation): 2018-06-27					
Link to the accreditation certificate: ISO/IEC 17025 and relevant requirements of CNAS					
Accreditation body: China National Accreditation Service for Conformity Assessment(CNAS)					

Wind:

Instrument Undergoing Calibration	Calibration Range	Reference Standard, Equipment	Calibration and Measurement Capability (CMC)*	Traceability of Reference Equipment	
				Last Standard Calibration Date	Calibration Body
Portable three cup Anemometer	0.2 to 70 m/s	Pilot tube	(2~30) m/s U=0.07 m/s	2014/4/7	National Institute of Metrology, China
Wind direction and wind speed sensor for automatic weather station			(2~40) m/s U=0.08 m/s (40~60) m/s U=(0.08~0.18) m/s		
Magnetolectricity wind speed sensor for wind farm			(3~30) m/s U=0.07 m/s		
Hot bulb anemometer			(0.5~2) m/s U=(0.25~0.07) m/s (2~30) m/s m/sU=0.07 m/s		
Status of accreditation (date of the latest accreditation): 2018-06-27					
Link to the accreditation certificate: ISO/IEC 17025 and relevant requirements of CNAS					
Accreditation body: China National Accreditation Service for Conformity Assessment(CNAS)					

Precipitation:

Instrument Undergoing Calibration	Calibration Range	Reference Standard, Equipment	Calibration and Measurement Capability (CMC)*	Traceability of Reference Equipment	
				Last Standard Calibration Date	Calibration Body
Raingauges, Measuring cylinders	0 to 942.48 mL	Standard Capacity Measurement (glass)	MPE: ± (0.031 to 0.314) mL	Oct. 2016	National Institute of Metrology, China

Status of accreditation (date of the latest accreditation):
Link to the accreditation certificate:
Accreditation body:

Other (please specify if applicable):

Instrument Undergoing Calibration	Calibration Range	Reference Standard, Equipment	Calibration and Measurement Capability (CMC)*	Traceability of Reference Equipment	
				Last Standard Calibration Date	Calibration Body
Pyrheliometer	(5~15) μ V/ (W/m ²)	Cavity Radiometer	Urel=0.6%	Oct. 2015	PMOD-WRC Davos (Switzerland)
Pyranometer	(5~25) μ V/ (W/m ²)	Secondary Standard Pyranometer	Urel=1.6%	Nov. 2018	National Center for Meteorological Metrology,China

Status of accreditation (date of the latest accreditation): 2018-06-27

Link to the accreditation certificate: ISO/IEC 17025 and relevant requirements of CNAS

Accreditation body: China National Accreditation Service for Conformity Assessment(CNAS)

* A **CMC (calibration and measurement capability)** is the smallest uncertainty (k=2) of measurement that can be expected to be achieved by the RIC during a calibration under normal conditions. This CMC is evaluated by the RIC itself and described in the scope of accreditation of the RIC, if available.