



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	ALGER
RIC's website	www.meteo.dz
Institute hosting RIC	Office National de la Météorologie
City	ALGER
Country	ALGERIE
Regional Association	ARI (Regional Association I)
Contact Person for the Regional Instrument Centre	
Courtesy Title	Chef de Section Etalonnage
First name	Kheireddine
Family name	AKLIL
Street and number	1, Av. Med Khemisti
Postal code	BP 153 16033
City	ALGER
State/Province	ALGERIE
Country	ALGERIE
Tel. number(s)	(+213) 21 50 69 10 / 021 507943
Fax number(s)	(+213) 21 50 88 49(+213) 21 50 89 50
Email(s)	<u>k.aklil@meteo.dz</u>
Has contact person changed since your last report?	XYes <input type="checkbox"/> No
If yes, provide the previous contact person?	Mr. Karim Abdelli

RIC's staff

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

- Managerial: **04**
- Technical: **12**

Interlaboratory Comparisons

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

- **NO**

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

- **NO**

Applied International Standards/Norms

Is your RIC accredited according to ISO/IEC 17025?

Yes (please, specify the following):

Accreditation/certification body:

Date of the last audit:

Link to the Certificate of Accreditation:

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

- **It is actually Certified ISO 9001-2015 ,the iso17025 is planned for the end 2019**

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: Société Générale de Surveillance (SGS)

Date of the last assessment: 23/03/2018

Standard against which the assessment was carried out: ISO9001/2015

No (please, explain why, if possible)

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):

No (please, explain why, if possible)

Because the RIC is not yet accredited according to ISO/IEC 17025

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
No	No	No	No

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)

- Our RIC has not provided any training activity for the region members. However, one member of our RIC has followed a practical training calibration course held in the RIC of Casablanca (Morocco)

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)

- Calibration procedures of instrument measurement of PTU
- Operating mode of uncertainties calculations
- Operating mode of installation and control of the barometers network

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)

- Yes,
 - Acquisition of a full atmospheric pressure calibration chain;
 - Acquisition of a full air temperature calibration chain;
 - Acquisition of a full relative humidity calibration equipment;
 - Acquisition of the thermo-hygrometer sensors calibration software;
 - Acquisition of Sensors pressure calibration software (manometers and Transmitters);
 - Acquisition of fifty-five (55) digital barometers for which thirty-five (35) are already installed;

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

- Yes,
 - Creation of three (03) air conditioned laboratories for the calibration of the pressure, temperature and moisture. The environment work ($T = +23\text{ °C} \pm 2\text{ °C}$) and $U = 50\% \pm 2\%$).

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

- Yes,
 - The staff has been strengthened by the recruitment of Engineers and senior technicians in maintenance

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 main and strategic objectives for 2019 were:

- Accreditation of the laboratory of calibration according to the ISO 17025-2017 version;
- Renewal and automation of the observing network instruments;
- Ensure the compliance of the maintenance procedures according to the standards and regulations.

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

Yes

No

27/02/2019

Date

Name and Signature of Person in Charge of RIC

K. ABDELLI



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
Platinum resistance thermometers PT100	-40 to +125 °C	Primary standard SPRT 25 Ω (ASL CTP5000) liquid bath with equalizing block (Isotech 796L 470 mm end 8.5 L, resistance bridge (CPT5000 and CTH7000))	0.01 °C	September 2017	Laboratory AIRMETROLOGY (UKAS accreditation No. B12249)
Platinum resistance thermometers PT100	-40 to +125 °C	Primary standard SPRT 100 Ω (ASL CTR3000) liquid bath with equalizing block (Isotech 796L 470 mm end 8.5 L, resistance bridge (CPR3000 and CTH7000))	0.01 °C	September 2017	Laboratory AIRMETROLOGY (UKAS accreditation No. B12249)
Alcohol/Mercury thermometer	-20 to +60 °C	Precision thermometry	0.2 °C	March 2018	Laboratory AIRMETROLOGY (UKAS accreditation)

Status of accreditation (date of the latest accreditation):

Link to the accreditation certificate:

Accreditation body:

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
Capacitive hygrometer	10 to 90 %RH	Dew Point Mirror (Optidew et Optidew Vision)	+0.6 %	March 2018	Laboratory AIRMETROLOGY (UKAS accreditation No. 02830)
Display hygrometer		Hydrogenerator (Hygro Cal100)			
Hygrograph		Climatic chamber			

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

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	0 à 1100 hPa	Barometer CPC6000 IS50; Nitrogen Generator CPC600	(0.02mbar+1.3x10 ⁻⁵ P)	October 2018	Laboratory AIRMETROLOGY Cofrac accreditation n°51058
Digital Barometers	0 à 1100 hPa	Barometer CPG2500	(0.02mbar+1.3x10 ⁻⁵ P)	October 2018	Laboratory AIRMETROLOGY Cofrac accreditation n°51056
Digital Barometers	500 à 1100 hPa	Barometer P501	(0.03mbar+2x10 ⁻⁵ P)	January 2019	Laboratory AIRMETROLOGY Cofrac

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

Wind:

Instrument Undergoing Calibration	Calibration Range	Reference standard, Equipment	Calibration and Measurement Capability (CMC)*	Traceability of Reference equipment	
				Last standard calibration date	Calibration body

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

Precipitation:

Instrument Undergoing Calibration	Calibration Range	Reference standard, Equipment	Calibration and Measurement Capability (CMC)*	Traceability of Reference equipment	
				Last standard calibration date	Calibration body

Status of accreditation (date of the latest accreditation):

Link to the accreditation certificate:

Accreditation body:

SOLAR RADIATION:

Instrument Undergoing Calibration	Calibration Range	Reference standard, Equipment	Calibration and Measurement Capability (CMC)*	Traceability of Reference equipment	
				Last standard calibration date	Calibration body
Pyranometer and Pyrhelimeter	< 5%	AHF Pyrhelimeter N°29225 Installed in Tamanrasset	0.2 % à 0.3 %	September 2010 Calibration of the reference etalon every 05 years in Davos	Comparison with world reference etalon in Davos

Status of accreditation (date of the latest accreditation):

Link to the accreditation certificate:

Accreditation body:

* 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.