



Federal Department of Home Affairs FDHA
Federal Office of Meteorology and

**THE DIRECTOR OF THE FEDERAL OFFICE OF METEOROLOGY AND
CLIMATOLOGY, METEOSWISS, SWITZERLAND**

AND

THE PRESIDENT OF THE METEOROLOGICAL STATE AGENCY OF SPAIN (AEMET)

ANNOUNCE (1st ANNOUNCEMENT)

THE ELEVENTH INTERCOMPARISON CAMPAIGN OF THE REGIONAL BREWER

CALIBRATION CENTER-EUROPE (RBCC-E)

Will be held at Lichtklimatisches Observatorium
LKO (Arosa, Switzerland) 02 to 12 July, 2016

Dear European Brewer spectrophotometer user community member:

This is an invitation to European Brewer operators to participate in the eleventh Regional Brewer Calibration Center for Europe (RBCC-E) intercomparison that will be held at Arosa Lichtklimatisches Observatorium LKO of MeteoSwiss during the period July 02-12, 2016 .

This eleventh campaign will be a joint exercise of the Regional Brewer Calibration Center for Europe (RBCC-E) and MeteoSwiss with the support of the Global Atmosphere Watch (GAW) program of the World Meteorological Organization (WMO) and the EUBREWNET COST ES1207 Action.

In November 2003, and within the GAW/WMO program, the Regional Brewer Calibration Centre for RA-VI Region (Europe) (RBCC-E) was established by Izaña Atmospheric Research Centre (I-ARC) at Izaña Observatory (IZO, Canary Islands), managed by the “Agencia Estatal de Meteorología” (AEMET, Spain). Technical and organization information of the RBCC-E can be obtained at rbcce.aemet.es. At present, the RBCC-E maintains a triad of reference instruments. The Regional Primary Reference Spectrophotometer (B157) and the Regional Travelling Reference Spectrophotometer (B185) are part of the triad. Each spectrophotometer is calibrated independently with the standard Langley method at IZO and since 2011 transfer their own calibration.).

The traveling reference (B#158) operated by Kipp & Zonen (K&Z) experts will also participate in this intercomparison. This will allow participants to request the technical servicing and maintenance on their instruments with K&Z during the campaign.

The following operations are offered by the RBCC-E during the intercomparison:

- Ozone calibration against the RBCC-E travelling reference (B185)
- AOD calibration transferred from RBCC-E travelling instrument.
- Compilation of the calibration histories of the instruments

Schedule of the Intercomparison

Eleventh RBCC-E Calibration Campaign, LKO, Arosa (Switzerland). 02-12 July 2016

Date	July	Actions	Notes
Friday	01	Installation	
Saturday	02	Installation	Blind days
Sunday	03	O3 Measurements	Blind days
Monday	04	O3 Measurements	Adjustments
Tuesday	05	O3 Measurements	Maintenance
Wednesday	06	O3_cal/ Adjustments	Stray light Characterization
Thursday	07	O3_cal/ Adjustments	Dispersion tests
Friday	08	O3_cal/ (UV)	Ozone final calibration
Saturday	09	O3_cal/ (UV)	Ozone final calibration
Sunday	10	O3_cal/ (UV)	Ozone final calibration
Monday	11	O3_cal/ (UV)	Ozone final calibration
Tuesday	12	Packing	Departure

Location of the intercomparison

LichtKlimatisches Observatorium MeteoSwiss, Arosa. Accommodation details are given in the Annex.

Participants already registered

- 2 Brewer spectrophotometers from MeteoSwiss
- 2 Reference Instruments (Brewer #185 and Brewer#158)

Participants to be registered

The organizers can accommodate up to 7 more instruments with up to two operators per instrument.

Technical Requirements

The instruments should be operative, equipped with tripods and run by their usual operator.

History of the instrument (AVG Files), last calibration and recent observations (B files) must be available at the intercomparison. Updated technical aspects can be checked through www.rbcc-e.org.

Funding for instruments maintenance

- Travelling, instrument transportation and accommodation costs should be covered by the participants.
- Extra financial support for developing countries or countries with economies in transition may be available from WMO-GAW. In case of major repairs, the guests can directly order the service with the Kipp & Zonen Company.
- Participants of the EUBREWNET action can ask for support to a Short Term Mission (STM) please contact with your country delegate at the action. (www.eubrewnet.org)

Contact address:

<p>Brewer Campaign coordinator: Alberto Redondas Meteorological State Agency -AEMET Izaña Atmospheric Research Center I-ARC C/ La Marina, 20, 38071 Santa Cruz de Tenerife Spain Tel: +34-922-574487 Fax: +34-922-574475 Email: aredondasm@aemet.es</p>	<p>Local organizer: Herbert Schill, René Stübi Federal Office of Meteorology and Climatology MeteoSchweiz Arosa Haus Steinbruch, CH-7050 Arosa Switzerland Tel: +41 81 377 26 16 Fax: +41 81 377 19 01 Email: herbert.schill@meteoswiss.ch rene.stubi@meteoswiss.ch</p>
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Members of the Organizing Committee:

Dominique Ruffieux (dominique.ruffieux@meteoswiss); Aerological Sounding Station, Payerne
Werner Siegrist (werner.siegrist@meteoswiss.ch); LKO Arosa, Station head
Bertrand Calpini (bertrand.calpini@meteoswiss); Aerological Sounding Station, Payerne
Franz Herzog (franz.herzog@slf.ch); Technician, SLF, Davos

Deadline:

Please confirm your participation before May 30, 2016

Sincerely,

Miguel Ángel López González
Agencia Estatal de Meteorología (AEMET)
President

Dr. Peter Binder
Federal Office of Meteorology and
Climatology, MeteoSwiss
Director

Annex-: Accommodation information:

In Arosa resort, there are many hotels at a few minutes walking distance from the Observatory. The price is around € 90 for halfboard (breakfast + evening meal). A pre-reservation has been done at the following closest hotels:

Streiff (*)**

Telephone: +41.(0) 81 378 71 71/FAX: +41.(0) 81 378 71 78

E-mail: mail@streiff.ch

<http://www.streiff.ch/en/sommer/>

Hohe Promenade (**)**

Telephone: +41.(0) 81 378 77 00/FAX: +41.(0) 81 378 77 07

E-mail: info@hoproarosa.ch

http://www.hoproarosa.ch/sites_e/sommer/hotel/beschrieb_geschichte.html

Hohenfels (*)**

Telephone: +41.(0) 81 378 56 56/FAX: +41.(0) 81 378 56 57

E-mail: reception@arosabergbahnen.ch

<http://www.hohenfels.ch/index.php?check=go&seas=w&lang=e>