



## Lunar Photometry: towards closing the gap in the annual cycle of aerosol optical depth climatology at high latitudes.

Valladolid  
24-26 June, 2015

### *Final Agenda*

**Icebreaker party on 23 June, h 19, at the Workshop Venue, Valladolid University**

### **24 June 2015**

8:00-8:30 Registration

8:30 - Workshop logistics

#### **I - Why are we here? Polar-AOD, past present, future;**

8:45 - Brief overview, with introductions of participants

9:15 - An historical brief excursus (V. Vitale)

9:45 - Why are we here? Aerosol Activities in the Arctic: NOAA (and beyond...) (A. McComiskey)

10:15 - Russian activities into the Arctic (Tiksi, Cape Baranova) (V. Ivakhov)

#### **10:45 - Coffee Break**

#### **II - Instrument Development**

11:15 - Retrospective of NOAA's Polar-AOD Programs; Modifications of the SP02 for Sun and Moon observations (R. Stone)

11:45 - Modifications of PFR and need for improvements (J. Groebner)

12:05 - Modifications of CE318 and need for improvements. AERONET plan for lunar photometer (A. Barreto)

12:25 - Perspective for lunar photometry in Japan and Modification plan for Prede (S. Masataka)

12:40 - panel discussion: R. Stone, J. Grobner, CIMEL, S. Masataka (moderator: Vito Vitale)

#### **13:00-14:00 LUNCH**

#### **III. ROLO algorithm and future development**

14:00 - ROLO development and web-based interface (T. Stone)

14:30 - discussion led by Mauro Mazzola (ISAC) and Tom Stone (USGS)

#### **IV. Field campaigns thus far**

15:00 - Evaluation of the NOAA SP02 Lunar Photometer; MLO Calibration and BRW Winter Campaign (R. Stone)

15:15 - Field activities at Ny Alesund (M. Mazzola)

**15:30 - Coffee Break (and posters)**

16:00 - Intercomparison campaign PFR-Cimel (A. Barreto/E. Cuevas)

16:15 - Planned activities at Alomar (C. Toledano)

16:30 - discussion led by instrument mentors

17:00 - wrap-up for day; review and discussion

17:30 Adjourn of the Meeting

**25 June 2015**

8:50 - Day's logistics, 10 min (hosts)

**V. Other measurements techniques: successes, failures, synergies**

9:00 - Activities at Eureka (K. Baibakov)

9:20 - Activities at Ny Alesund (C. Ritter)

9:40 - Comparison between stellar measurements and moon Cimel (A. Barreto)

**10:00 - coffee break and posters**

10:40 - Potential synergies lidar-photometer: results from a field campaign in Senegal (B. Torres)

11:00 - Moon Radiances from a Sky Camera and its use for retrieving aerosol properties at night (R. Román)

11:20 - discussion led by Ritter (AWI) and O'Neill (UNI Sherbrooke)

**VI. Satellite and ground-based observations**

12:00 - Synergy between space-based and ground-based measurements (A. McComiskey)

12:20 - aerosol cal/val activities (K. Stebel)

12:40 - discussion led by K. Stebel

**13:00 - 14:00 LUNCH**

**VII. Future needs/vision;**

14:00 - The CE318 Triple photometer in ACTRIS AERONET-Europe network (E. Cuevas)

14:10 - Night measurements and climate monitoring efforts (V. Vitale)

14:20 - Validation efforts (K. Stebel)

**VIII. Break out groups (Instruments and ETI issues, perspective in/for the observing system, validation efforts)**

14:30 Break out groups to deepen discussion. Guidelines/questions to address break out groups will be provided.

**15:30 - coffee Break (and posters)**

16:00 Break out groups (cont.)

17:00 - Adjourn of the Meeting

**evening supper**

## **26 June 2015**

### **VIII. Break out groups (cont.)**

9:00 - to review/summarize for report.

### **IX. Reports by working groups**

10:00 - three talks from rapporteur (15 min each)

### **10:45 - coffee Break**

11:15 - general open discussion and wrap-up for the report (45 min)

12:00 workshop end