



Solar Metrology Symposium - II

21-23 September 2015
Royal Observatory of Belgium

We would like to welcome all
participants.



Introduction

One year after the first meeting in Paris, **the CNES, the STCE, and the LATMOS (CNRS)** are happy to see you at the second edition of the meeting:

- « **Solar Metrology, Needs, and Methods** ».

The objectives are to confront the available observations of solar parameters (**total and spectral irradiance, solar diameter and shape, helioseismology, etc.**) from existing missions (PICARD, SOHO, SDO, PROBA, and others) with the needs of solar and climate models in order to identify in which direction we have to improve them for future solar missions.

Scientific Programme

- 1- Solar data for climate science
- 2- Solar modelling
- 3- Results from recent space missions
- 4- Space era data versus historical records
- 5- Future solar missions and degradation in space of solar instruments

Scientific Programme

- 40 participants
- 25 scientific presentations
- 3 discussions:
 - SOLSPEC discussion
 - Metrology discussion (solar diameter, solar oblateness, total solar irradiance, spectral solar irradiance, etc.)
 - General discussion

General questions?

- 1. How much have the TSI, SSI, solar radius, and solar oblateness varied during solar cycle 24?
- 2. What has been learned from connecting the TSI and SSI measurements to the long-term TSI and SSI records?
- 3. What has been learned from comparing TSI and SSI measurements to solar proxies and irradiance model predictions?
- 4. How have Earth's atmosphere and climate changed during a solar cycle?
- 5. What are the dominant processes and pathways for solar forcing in Earth's environment?
- 6. How can these Sun-climate results be effectively applied for reconstructions to the past and for future climate change predictions?
- 7. What are the key science results and lessons learned from the space missions?
- 8. How will the TSI, SSI, solar radius, solar oblateness and Sun-climate records continue in the future?

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– Group Photo



Organizing committee

- Hauchecorne, Alain (CNRS-LATMOS, Fr)
- Rouzé, Michel (CNES, Fr)
- Dewitte, Steven (RMIB, Be)
- Bolsée, David (BIRA, Be)
- Bush, Rock (Stanford University, USA)
- Dominique, Marie (ROB, Be)
- Meftah, Mustapha (CNRS-LATMOS, Fr)

Many thanks to Anne Vandersyppe

Next meeting

Solar Metrology Symposium - III

In 2016 or in 2017