

Chers Collègues / Dear Colleagues,

We invite abstract's submission to the 2018 EGU General Assembly co-organized session ST4.5/AS4.15/CL2.02: Solar Total and Spectral Irradiance Recent Observations and Results, Links with Models and Possible Consequences for Climate.

Convener: Luc Damé Co-Conveners: Margit Haberreiter, William Ball, Katja Matthes, Martin Snow, Rémi Thiéblement, Martin Wild.

Confirmed solicited speakers presently include Norman Loeb (NASA Langley Research Center) and Peter Pilewskie (LASP, Boulder).

Session description: Earth climate sciences involve complex coupling between the Sun, the atmosphere, landmasses, and the oceans. Natural forcings, such as volcanic eruptions and the variability of solar irradiance and particles can have large local effects on the Earth's dynamical system. One substantial uncertainty in our understanding of the Sun-Earth system is the absolute level of the Earth's radiation budget, in particular the precise quantification of the Earth's radiation imbalance. This session invites reports on recent observational results from the ISS/SOLAR instruments SOLSPEC and SolACES, SORCE, PICARD/PREMOS, NORSAT1/CLARA, CERES, ISS/TSIS, as well as future missions such as EarthCARE, CLARREO, and others. Results from global and regional climate modeling discussing the effects of past and possible future variations in solar variability, ozone, water vapor, clouds, and aerosols, anthropogenic forcing, and the Earth's radiation budget are welcome too.

Deadline for receipt of abstracts: Wednesday 10 January 2018, 13:00 CET

EGU General Assembly home page: [www.egu2018.eu/](http://www.egu2018.eu/)

Session abstract submission:  
[meetingorganizer.copernicus.org/EGU2018/session/26884](http://meetingorganizer.copernicus.org/EGU2018/session/26884)

Kind regards and our very best wishes for 2018 / Bien cordialement et avec tous nos voeux pour 2018,

Luc Damé and co-convenors.

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Dr. Luc Damé

LATMOS (Laboratoire Atmosphères, Milieux, Observations  
Spatiales)

IPSL/CNRS/UVSQ

11, boulevard d'Alembert, 78280 Guyancourt, FRANCE

Tel: +33 1 80 28 51 19

E-mail: [luc.dame@latmos.ipsl.fr](mailto:luc.dame@latmos.ipsl.fr)