

**→ ATMOS 2015**

**Advances in Atmospheric Science and Applications**

# **Introduction/Scope**

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# Conference Organisation

- **WebPage:** [seom.esa.int/atmos2015](http://seom.esa.int/atmos2015)
- **all oral presentations will be made available at the conference WebPage**
- **for posters it is planned to provide pdf files via the WebPage**
- **about 250 people registered so far**
- **registration/information desk is open all week**
- **no parallel sessions, 88 oral presentations – 12 minutes talk and 3 minutes time for questions, discussion after each topical session**
- **posters (146) on display all week long**  
[http://seom.esa.int/atmos2015/files/Posters\\_disposal.pdf](http://seom.esa.int/atmos2015/files/Posters_disposal.pdf)
- **internet: wireless access**
- **social events: Icebreaker at the University this evening, poster session with drinks and food during Wednesday afternoon**
- **Proceeding/ESA Publication: papers to be submitted by June 12 to**  
[esapub@gmail.com](mailto:esapub@gmail.com)

# Conference Objectives

- **Provide a forum for scientific exchange and to assess the state of the art of atmospheric applications**
- **Initiate and encourage close collaboration between individual research groups**
- **Present exploitation results from space-borne atmospheric missions and applications projects (e.g. Copernicus, CCI)**
- **Inform data users about the status of future ESA missions and new Programmes**
- **Formulate recommendations to ESA (final session, brief summary document)**



## **Conference 2012 – 34 Recommendations/Session Summaries:**

**[http://congrexprojects.com/docs/atmos\\_docs2/recommendations-summaries.pdf?sfvrsn=0](http://congrexprojects.com/docs/atmos_docs2/recommendations-summaries.pdf?sfvrsn=0)**

**R1 on open data policy: being implemented in co-operation with EU within the Copernicus Programme (e.g. Sentinel 1)**

**R2 on easy data access: ftp servers for CCI projects (e.g. <http://www.esa-ozone-cci.org/?q=node/160>), Scientific Data Hub for Sentinel**

**[1https://scihub.esa.int/](https://scihub.esa.int/)**

**R3 on optimising reprocessing facilities: e.g. fast MIPAS L1/L2 V7 reprocessing recently done, fast reprocessing of all improved GOME, SCIAMACHY and GOME2 nadir profiles and improved total ozone columns (also for OMI) done within CCI, harmonisation/reprocessing of all GOME Level 1 data done by autumn 2015, project on mesospheric data started, SCIAMACHY/GOMOS/MIPAS Quality Working Groups are continuing activities on data product and algorithm improvements**

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**R4 on synergistic data exploitation: being planned (e.g. combined ozone UV/IR retrieval)**

**R5 on spectroscopic studies: SEOM project on-going (O<sub>3</sub>, CH<sub>4</sub>, CO, H<sub>2</sub>O) and being presented at this conference**

**R6 on specific money provision for young scientists: ESA fellowships funded (<http://livingplanetfellowship.esa.int/>)**

**R7 on the generation of improved ancillary data (e.g. albedo, clouds, aerosols): <http://www.globalbedo.org/>, <http://www.esa-landcover-cci.org/?q=node/160>, <http://www.esa-aerosol-cci.org/>, <http://www.esa-cloud-cci.org/>**

**R8 on improved validation infrastructure: more ESA involvement achieved (e.g. PANDORA instrumentation in Europe)**

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**R9 on Level 2 algorithm intercomparison (as done within CCI): started in ESA Quality Working Groups**

**R10 on improved co-ordination among Space Agencies: work ongoing within CEOS (e.g. ACC AQ Constellation)**

**R11 on satellites instruments to provide high resolution vertical profiles: OMPS, planned SAGE mission on ISS ...**

**R28 on the establishment of a European capability for GHG monitoring from space: national activities like MERLIN (MICROCARB) ongoing, CarbonSat Earth Explorer activities ongoing, CH<sub>4</sub> monitoring capabilities with S5P and S5 are upcoming, Eumetsat satellites: IASI (IRS, IASI-NG) instruments, clear need for a global GHG constellation expressed by CEOS**

## **Seed Questions for Discussions**

- **How can the 16 years of ERS-2 and 10 years of Envisat atmospheric archives be used best to contribute to the establishment of long term data records?**
- **How can atmospheric data continuity after Envisat be insured (enhanced importance of ESA Third Party Missions, new mission type needed enabling the transfer from Earth Explorer to Sentinel missions etc.)?**
- **What are your priorities on the scientific exploitation of atmospheric satellite data in preparation for the upcoming Sentinel and Earth Explorer missions on the theme atmosphere?**



**PRAGUE 09-13 MAY 2016**



**Main Objective: Presentation of Exploitation  
Earth Observation Measurements**

**living planet** | PRAGUE  
09-13 May  
**symposium 2016**



<http://lps16.esa.int>

European Space Agency

**Important Dates:**

Deadline for abstract submission	16 October 2015
Notification of Acceptances	End January 2016
Issue of Preliminary Programme	February 2016
Opening of Registration to the Symposium	February 2016
Release of the Final Programme	at the symposium
Submission of Full Papers	at the symposium

**Themes:**

Atmosphere, Oceanography, Cryosphere, Land, Hazards, Climate and Meteorology, Solid Earth/Geodesy, Near-Earth Environment, Methodologies and Products, Open Science 2.0

