

# ACAM Working Group on Data Sharing (WG1)

## Status of the working group:

### ☐ Current list of group members:

**Brice Barret** (CNRS)

**Gao Chen** (NASA Langley)

**Jim Crawford** (NASA Langley)

**Klaus Gottschaldt** (DLR)

**Mark Lawrence** (IASS)

**Prabir Patra** (JAMSTEC)

**M. Venkat Ratnam** (NARL)

**Eri Saikawa** (Emory University)

**Hans Schlager** (DLR)

**Ranjit K Sinha** (Daylabagh Educational Inst.)

**Hiroshi Tanimoto** (NIES)

**Jean-Paul Vernier** (NASA Langley)

**Jianchun Bian** (IAP)

**Cathy Clerbaux** (LATMOS/CNRS)

**Robert Damadeo** (NASA Langley)

**Pawan Gupta** (NASA Goddard)

**Manish Naja** (ARIES)

**Anjum Rasheed** (CCRD)

**Maheswar Rupakheti** (IASS)

**Michelle Santee** (JPL)

**Imran Shahid** (Inst. of Space Tech.  
Islamabad)

**Manoj K Srivastava** (Banaras Hindu Univ.)

**Anne Thompson** (NASA Goddard)

**Bob Yokelson** (University of Montana)

### ☐ Co-leads of WG1:

Gabriele Stiller (KIT, Germany) – [gabriele.stiller@kit.edu](mailto:gabriele.stiller@kit.edu)

Vinayak Sinha (IISER, India) – [vsinha@iisermohali.ac.in](mailto:vsinha@iisermohali.ac.in)

**New:** Klaus Gottschaldt (DLR, Germany) – [klaus-dirk.gottschaldt@dlr.de](mailto:klaus-dirk.gottschaldt@dlr.de)

# ACAM Working Group on Data Sharing (WG1)

- ❑ Website established (many thanks to Klaus Gottschaldt!)
  - ❑ First instrument/campaign-related sub-websites included
    - Aircraft measurements:** ARFI, [ESMVal](#), INDOEX, OMO, OP3, SHIVA, SusKat
    - Balloon soundings:** ASM soundings, SHADOZ, TAPTO
    - Ground-based measurements:** IISER Mohali, Malaysia-Mead, NAMaSTE, SusKat
    - Long-term records:** CARIBIC, IAGOS-MOZAIC
    - Satellite data records:** ACE-FTS, [MIPAS](#), IASI/MetOP, IASI-SOFRID, [MLS](#), SAGE
- (in blue: information and links to data available via ACAM WG1 website)

[https://www.pa.op.dlr.de/ACAM\\_WG1/](https://www.pa.op.dlr.de/ACAM_WG1/)

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## Future Actions:

- ☐ Please contribute with your data! And a short description for the web site!

Those listed on the website already -- and new ones!

- ☐ What can we do to remove problems/obstacles that prevent you from listing your data?

Please note: there is no common data protocol, every providing partner can define the conditions for data access individually

- ☐ Your comments, opinion, recommendations to the activity and/or the web site?
- ☐ Data users: please have a look and contact the PIs of the groups if you find data useful for your study!

[https://www.pa.op.dlr.de/ACAM\\_WG1/](https://www.pa.op.dlr.de/ACAM_WG1/)

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## About

ACAM (Atmospheric Composition and the Asian Monsoon) is a [SPARC/IGAC](#) jointly sponsored activity. This working group on data sharing (WG1) addresses the following tasks:

- Identify relevant observational datasets for the study of the Asian monsoon
- Organize data sharing
- Improve online access to observational datasets

Please browse categories for an overview, or navigate directly to one of the datasets for more details (where available):

- **Aircraft measurements:** ARFI, [ESMVal](#), INDOEX, OMO, OP3, SHIVA, SusKat
- **Balloon soundings:** ASM soundings, SHADOZ, TAPTO
- **Ground-based measurements:** IISER Mohali, Malaysia-Mead, NAMaSTE, SusKat
- **Long-term records:** CARIBIC, IAGOS-MOZAIC
- **Satellite data records:** ACE-FTS, [MIPAS](#), IASI/MetOp, IASI-SOFRID, [MLS](#), SAGE

If you feel that a dataset relevant for [ACAM](#) is missing and should be added to the list, please contact us.



## Contacts

**Gabriele Stiller** (KIT, Germany) - ACAM Scientific Steering Group member and data sharing WG lead

**Vinayak Sinha** (IISER, India) - ACAM Scientific Steering Group member and data sharing WG lead

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## Satellite data records

### ACE-FTS

**Point of contact:**

**Temporal coverage:**

**Altitude coverage:**

**Horizontal sampling:**

**Altitude resolution:**

**Products:**

**Further information:**



### MLS

**Point of contact:** [Michelle L. Santee](#)

**Temporal coverage:** August 2004 - present

**Altitude coverage:** 316-0.02 hPa, depending on the data product (see [MLS Data Quality and Description Document](#))

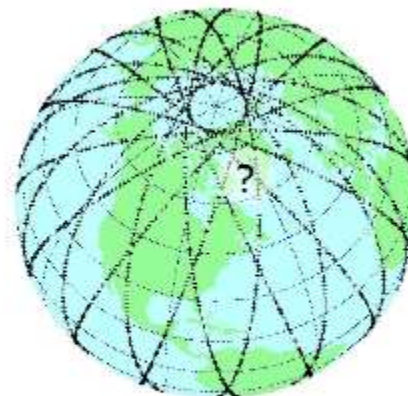
**Horizontal sampling:** The along-track separation between adjacent retrieved profiles is 1.5° great-circle angle (~165 km), whereas the longitudinal separation of MLS measurements, set by the Aura orbit, is 10°-20° over low and middle latitudes

**Altitude resolution:** ~2.5-5 km, depending on the data product (see [MLS Data Quality and Description Document](#))

**Products:** Various trace gases (e.g., H<sub>2</sub>O, CO, O<sub>3</sub>, HNO<sub>3</sub>, CH<sub>3</sub>Cl, CH<sub>3</sub>CN, CH<sub>3</sub>OH, HCl, HCN, N<sub>2</sub>O, ClO, SO<sub>2</sub>), cloud ice water content (IWC), geopotential height (GPH), temperature

**Publications:** [relevant for ACAM](#), [general](#)

**Further information:** [This portal](#), [MLS homepage](#), [Data](#)







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## Selected ACAM-related Aura MLS publications

- **Convective outflow of South Asian pollution: A global CTM simulation compared with EOS MLS observations**

Li, Q.B., J.H. Jiang, D.L. Wu, W.G. Read, N.J. Livesey, J.W. Waters, Y. Zhang, B. Wang, M.J. Filipiak, C.P. Davis, S. Turquety, S. Wu, R.J. Park, R.M. Yantosca, and D.J. Jacob

*Geophys. Res. Lett.* 32, L14826, doi:10.1029/2005GL022762, 2005.



- **A comprehensive overview of the climatological composition of the Asian summer monsoon anticyclone based on 10 years of Aura Microwave Limb Sounder measurements**

Santee, M.L., G.L. Manney, N.J. Livesey, M.J. Schwartz, J.L. Neu, and W.G. Read

*J. Geophys. Res. Atmos.*, 2016JD026408, in review, 2017.

A general list (i.e. not pre-selected according to relevance for ACAM) of Aura MLS publications is available here:

<https://mls.jpl.nasa.gov/publications.php>



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Gabriele Stiller (KIT, Germany)  
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### Impressum