

obs4MIPs Data Set Form
V 1.0; June 2, 2014

To complete this document, you will need to refer to:
http://cmip-pcmdi.llnl.gov/cmip5/docs/standard_output.xls

1. Proposer's Contact Information

- a. Name : Thomas Holzer-Popp
- b. Email : thomas.holzer-popp@dlr.de
- c. Phone : +49 8153 28 1382
- d. Affiliation : DLR-DFD

2. Physical Quantity : Aerosol Optical Depth
(e.g. zonal surface wind, total column water vapor)

3. CMOR Long Name from *standard_output.xls*: Ambient Aerosol Optical Thickness at 550 nm
(e.g. "Eastward Near-Surface Wind", "Water Vapor Path")

4. Worksheet Name and Row Number from *standard_output.xls*: Aero, 1
(e.g. "Amon 22", "Amon 53")

5. Data Set Producer: Peter North, Swansea University, P.R.J.North@swansea.ac.uk, +44-1792-295234

(e.g. NASA and mission team, DOE and organization, NOAA and organization, PI and Institution; where possible include a specific contact name, organization, email, and phone number)

6. Responsible party or parties for data set delivery according to obs4MIPs requirements, including proper file formatting and technical note development:

Science Contact: Thomas Holzer-Popp, DLR, thomas.holzer-popp@dlr.de, +49 8153 28 1382

Peter North, Swansea University, P.R.J.North@swansea.ac.uk, +44-1792-295234

Technical Contact: Julian Meyer-Arneke, DLR, julian.meyer-arneke@dlr.de, +49 8153 28 1324

(e.g. Include a contact name, organization, email, and phone number)

7. Primary observation basis: satellite, in-situ, or re-analysis : satellite (polar orbiting)

8. Temporal Character : monthly; ~10:30 local overpass time

(e.g., monthly, daily, mean annual cycle)

9. Time Span : June 1995 - March 2012 (gap: Jan-Jun 1996)
(e.g., 1979-1987; Mar 1999 to Sep 2007; Jan 2002 to present)

10. Spatial Domain : global
(e.g., global, tropics, land-only, poleward 60N, and combinations)

11. Spatial Resolution : 1 deg
(e.g., 100km, 0.5°)

12. Relevant Website if available : documentation: www.esa-aerosol-cci.org; dataset: www.icare.univ-lille1.fr/archive/?dir=CCI-Aerosols (use as account and password: cci)

13. Any Established Procedure or Frequency for Updates :
updates including full validation scheduled 10/2015, 10/2016

14. Principle Publication(s) on Dataset Description and/or Methodology:
Bevan, S. North, P. Los, S. & Grey, W. (2012). A global dataset of atmospheric aerosol optical depth and surface reflectance from AATSR. Remote Sensing of Environment 116, 199-210.
North, P., Briggs, S., Plummer, S. & Settle, J. (1999). Retrieval of land surface bidirectional reflectance and aerosol opacity from ATSR-2 multiangle imagery. IEEE Transactions on Geoscience and Remote Sensing 37(1), 526-537.

15. If available, publications on Dataset Validation and/or Uncertainties:
17 year ATSR ECV evaluation report of Aerosol_cci project: http://www.esa-aerosol-cci.org/?q=webfm_send/836 with its annexes http://www.esa-aerosol-cci.org/?q=webfm_send/837 and http://www.esa-aerosol-cci.org/?q=webfm_send/838

16. If available, publications illustrating application to model evaluation:
17 year ATSR ECV evaluation report of Aerosol_cci project: http://www.esa-aerosol-cci.org/?q=webfm_send/836 with its annexes http://www.esa-aerosol-cci.org/?q=webfm_send/837 and http://www.esa-aerosol-cci.org/?q=webfm_send/838

17. Comment on your means to format the data (e.g. do you need help?) as well as host on an already defined ESGF node (e.g. do you have a node in mind?)

CMOR + correction script implemented and used

ESFG node: planned at DLR WDC-RSAT (implementation in progress)