

Umfrage entwerfen

Beantwortungen erfassen

Ergebnisse analysieren

Übersicht anzeigen

Standardbericht

Beantwortungen
durchsuchen

2 von 7 Befragten wird/werden angezeigt

Beantwortungen filtern

Kreuztabelle erstellen

Beantwortungstyp:
Normale Beantwortung**Collector:**
G-VAP Metadata (Dataset 02)
(E-Mail-Einladung)Beantwortungen
herunterladen**E-Mail-Adresse:**
marc.schroeder@dwd.de**Name:**
Marc SchroederBeantwortungen
freigeben**Benutzerdefinierter Wert:**
leer**IP-Adresse:**
141.38.1.12**Beantwortung gestartet:**
13. Juni 2013 14:53:42**Beantwortung geändert:**
26. September 2013 13:48:49**1. Organization(s) owning the data record described below****Format: Official name in national language (English if available)****Example: Deutscher Wetterdienst (German Weather Service)**

Satellite Application Facility on Climate Monitoring

2. Commonly used acronym or short name for the above organisation**Example: DWD**

CM SAF

3. G-VAP contact person for the data record described below**Format: Last name, first name****Example: Smith, Jane**

Schröder, Marc

4. E-mail address of the G-VAP contact person

marc.schroeder@dwd.de

5. Reference date for this G-VAP catalogue entry**Format: DD/MM/YYYY****Example: 31/12/2012**

13/06/2013

6. Event used to describe the catalogue entry reference date

Creation

7. Title, i.e. the name usually used to identify the data record

CM SAF Advanced TIROS Operational Vertical Sounder data record

8. Acronym or short name under which data record is commonly known

ATOVS

9. Processing version of the data record

Format: Specify "no versioning", if no formal versioning scheme has been established

V001

10. Purpose of data record within G-VAP

Dataset to be evaluated

11. Language(s) used within data record

Format: Provide language codes according to [ISO 639-2](#)

ENG [english]

12. Reference date for the data record

Format: DD/MM/YYYY

Example: 13/11/2006

16/11/2013

13. Event used to describe the data record reference date

Publication

14. Brief description (=abstract) of the data record's contents

The abstract should provide a clear and concise statement that enables the reader to understand the content of the data record.

Please respect the following rules:

- Aim to be understood by non-experts
- Do not include general background information
- Avoid jargon and unexplained abbreviations
- The abstract should be in English
- The abstract should not exceed 1000 characters

Example (taken from the [guidelines on WMO core metadata profile](#)):

Products from the METNO Numerical Weather Prediction model. METNO is running the HIRLAM model. Check out <http://www.hirlam.org/> for details. The model output has been subsetted, reprojected and reformatted using FIMEX (<http://wiki.met.no/fimex/>).

Grid resolution [degrees]: 0.216 X 0.216

Contained fields: potential temperature [K], geopotential height [$m^{2} s^{**-2}$], u velocity [$m s^{**-1}$], v velocity [$m s^{**-1}$], vertical velocity [$Pa s^{**-1}$] and relative humidity [%]**

Levels [hPa]: 1000, 925, 850, 700, 500, 400, 300, 250, 200, 150, 100, 70, 50, 30 and 10

Forecast offset times [hours]: 0, 3, 6, 9, 12, 15, 18, 21, 24, 30, 36, 42, 48, 54, 60 and 66

The CM SAF ATOVS data set offers 13 years (01 January 1999 - 31 December 2011) of water vapour and temperature satellite-derived global products. Different parameters generated simultaneously are available: vertically integrated water vapour (kg/m²), vertically integrated water vapour (kg/m²) and mean temperature (K) in 5 layers, specific humidity (g/kg) and temperature (K) on 6 levels. Also available are number of valid observations and an uncertainty estimate. The data set was derived from ATOVS onboard the NOAA satellites, NOAA-15, NOAA-16, NOAA-17, NOAA-18, NOAA-19 and onboard the European Metop satellite. ATOVS is composed of three instruments: HIRS, AMSU-B/MHS and AMSU-A. After application of a kriging routine, the products are available as daily and monthly means on a cylindrical equal area projection of 90km×90km. Grid information is given for centre position. Layers are (hPa): 200-300, 300-500, 500-700, 700-850, 850-surface. Levels are 200, 300, 500, 700, 850, 1000 hPa. After external review the data has been published and is accessible via wui.cmsaf.eu. Validation report, algorithm theoretical basis document and product user manual can be downloaded from www.cmsaf.eu/docs.

15. Main geophysical parameter(s) in the data record

Specific humidity (kg/kg)
 Total column integrated water vapour (kg/m2)
 Temperature (K)

16. Processing level according to the WMO definition

Level 4: Composite product (multisource) or result of model analysis of lower level data

17. If the data record is of Level-3 type, can underlying Level-2 data be provided?

Yes, for the full Level-3 data record

18. Ancillary information in the data record of special interest to G-VAP

Other (please specify) - number of valid observations, uncertainty estimate

19. Satellite instrument(s) used to generate the data record.

Specify "NONE" (first row) in case no satellite data have been used to produce the data record.

Main instrument(s) (1)	Ancillary instrument(s) (2)
NONE	
AATSR	
AIRS	
AMSR-E	
AMSU-B	
ASTER	
ATMS	
ATOVs	X
CERES	
CrIS	
ERBE	
GOME	
GOME-2	
HIRS	
IASI	
MERIS	
MHS	
MODIS	
MVIRI	
MWR	
POLDER	
SCIAMACHY	
SEVIRI	
SSM/I	
SSM/IS	
TES	
TOVS	

Other instruments not listed above (see [EO Handbook](#)). Indicate also whether "other" acts as main or ancillary data source::

20. In-situ and/or ground-based remote sensing techniques or data used to generate the data record.

Specify "NONE" (first row) in case such techniques have not been used to produce the data record.

	Main instrument(s) (1)	Ancillary instrument(s) (2)
NONE	X	
Airborne in-situ observations		
Frost-point hygrometer		
Ground-based GNSS atmospheric sounding		
GPS radio occultation		
Interferometry (SWIR/TIR)		
Lidar		
Radiative fluxes (pyranometer, etc.)		
Radiometer (microwave)		
Radiometer (SWIR/TIR)		
Radiometer (UV/VIS/NIR)		
Radiosondes		

Other instruments not listed above. Indicate also whether "other" acts as main or ancillary data source::

21. Re-analysis scheme(s) used to generate the data record.

Specify "NONE" (first row) if such schemes have not been used to generate the data record.

	Main data source (1)	Ancillary data source (2)
NONE		
ERA Interim		X
JRA55		
MERRA		
NCEP/DOE R2		

Other (please specify)::

22. North-south density of the information in data record

Format: Provided as ground sampling distance (value plus unit, e.g. 0.01 deg). Specify "0.0" in case data represent a single location.

90 km

23. East-west density of the information in data record

Format: Provided as ground sampling distance (value plus unit, e.g. 10 km). Specify "0.0" in case data represent a single location.

90 km

24. Number of distinct vertical layers within data record

Specify N=1 for total column products. Provide textual description in case one single number can't be assigned.

layers: N=5 levels: N=6

25. Typical timespan between sequential information in data record

26. Typical delay between instrumental observation and release of the processed data product

Irregularly

27. Geographical bounding box: Co-ordinates of minimum bounding rectangle fully encompassing the data record.

In case data record represents one single location, enter identical values for the two corners of the bounding box.

Longitudes in deg. between -180° and +180° (east. hemisphere pos.)

Latitudes in deg. between -90° and +90° (north. hemisphere pos.)

Northernmost latitude - 79.35

Southernmost latitude - -79.35

Easternmost longitude - 179.53

Westernmost longitude - -179.53

28. Number of geographically distinct sites in data record.

Specify N=1 for data records from one single station. Data records derived from satellite measurements will typically have N>10000 distinct sites.

>10000

386x162

29. Vertical extension represented by the data record

Format: Value plus unit (e.g. 1013 hPa).

Bottommost boundary - 1013 hPa

Topmost boundary - 100 hPa

Comment - TCWV: surface-100 hPa, layer/level values up to 200 hPa

30. Time span covered by data record

Format: DD/MM/YYYY

Earliest date - 01/01/1999

Latest date - 31/12/2011

31. Limitations and known issues affecting the fitness for use of data record

Format: indicate relevant limitations in short sentences

Example:

- 1.) Data quality is poor north of 60°N (known issue)
- 2.) Product available for clear sky conditions only (limitation)
- 3.) Data gap between 11/2006 and 01/2008 (limitation)

1) Reduced data quality in elevated terrain such as the Himalayas. 2) All sky except for high atmospheric water content (e.g., precipitation, limitation). 3) ERA Interim output is used as background information. Considering the weighting functions of the ATOVS instruments, the results in the lower troposphere over land surface may be significantly influenced by the model fields. 4) The number of available satellites changes between 1 and 4. The satellites have different satellite local overpass times and some of them drifted with time. 5) The AMSU-A and HIRS brightness temperatures have not been intercalibrated. The AMSU-B SNO intercalibration coefficient are used only for the time period 2001-2010. Consequently, non-linear effects as a function of scene brightness temperature are not considered. This might lead to artefact trends especially in the temperature products.

32. Constraints relating to intellectual property

Data records submitted to G-VAP need to adhere to the [G-VAP data policy](#). Otherwise, a data record can not be accepted to the G-VAP activities.

In case you're interested in participating to G-VAP but can't adhere to the data policy, please contact the G-VAP co-chairs.

Adheres to the G-VAP data policy

33. Short statement of how the data record was created

Where possible, include statements on the following:

- 1.) **Source data, also list important ancillary data**
- 2.) **Data processing, e.g. retrieval method, resampling**
- 3.) **Method of updating**
- 4.) **Quality control processes**
- 5.) **Other important facts, e.g. product derived from FCDR**

As a minimum, a general statement should be made about the provenance of the dataset.

Input data are ATOVS Level 1c and ERA-Interim forecasts taken from ECMWF MARS archive. The ATOVS data is preprocessed with the AAPP software (Labrot et al., 2012) and the physical retrieval is described in Li et al. (2000). The data record and its documentation is subject to external review before the data record is released. The review was carried out in December 2012. CM SAF also applies an operational for ATOVS. At present, no updates to the data record are planned.

34. Short statement on the quality of the satellite radiances used to derive the data record

This question only applies to satellite derived data records. State "does not apply" for all other data.

The AMSU-A and HIRS brightness temperatures have not been intercalibrated. The AMSU-B SNO intercalibration coefficient are used only for the time period 2001-2010. Intercalibrations for HIRS and AMSU-A are available (Shi and Bates, 2011 and Zou and Wang, 2011) but due to the applied limb corrections can not be used as input to IAPP. John et al. (2012) describes a method to improve inter-calibration for AMSU-B. At time of generation, their coefficients were not available.

35. Short statement on uncertainty estimates and degree of homogeneity/stability

TCWV: Mean bias and RMSD are ~ 0.2 kg/m² and ~ 3.3 kg/m², respectively. Layer and level accuracies strongly depend on height (see validation report at www.cmsaf.eu/docs). E.g., the water vapour RMSD ranges between 1.72 and 0.021 kg/m². The data record itself includes uncertainty information.

36. Method used for data record evaluation

DirectExternal: External data have been used for evaluation (e.g. independent observations)

DirectInternal: Internal data have been used for evaluation (e.g. consistency checks)

37. Ancillary data fundamental to the evaluation of data record

For each referenced dataset, provide as a minimum the following information:

- 1.) **Title**
- 2.) **Acronym (if applies)**
- 3.) **Owner**
- 4.) **URL to dataset (if available)**

1) GCOS Upper Network (GUAN) radiosondes, WMO, DWD archive. 2) Atmospheric InfraRed Sounder (AIRS, product version AIRX2RET), NASA, <http://daac.gsfc.nasa.gov>.

38. Validation/evaluation report(s)

For each referenced document, provide as a minimum the following information:

- 1.) **Authors(s)**
- 2.) **Document title**
- 3.) **Year of creation**
- 4.) **URL to document (if available)**

State "not established" in case no validation/evaluation report has been established

Courcoux, N. and M. Schröder: Validation report, ATOVS tropospheric humidity and temperature data set, ATOVS edition 1. SAF/CM/DWD/VAL/ATOVS, issue: 1.1, 07 March 2013, www.cmsaf.eu/docs.

39. Targeted user segment(s) for data record

Example: Meteorological services, environmental authorities
State "not established" if user segments have not been analysed

Meteorological services, environmental authorities, (regional) climate centers and services, universities

40. Thematic application area for the data record

Example: Support to NWP, regional climate modelling
State "not established" if application areas have not been analysed

Regional variability analysis Support to global and regional climate modelling and NWP Climate service and infrastructure planning

41. Documentation on user requirements

For each referenced document, provide as a minimum the following information:

- 1.) Authors(s)**
- 2.) Document title**
- 3.) Year of creation**
- 4.) URL to document (if available)**

State "not established" in case no user requirements document has been established

Hollmann, R. (editor): CDOP2 - Product Requirements Document. SAF/CM/DWD/PRD, Issue 2.1, 16. April 2013 (www.cmsaf.eu/docs).

42. ATBD(s) describing how data record is generated

For each referenced document, provide as a minimum the following information:

- 1.) Authors(s)**
- 2.) Document title**
- 3.) Year of creation**
- 4.) URL to document (if available)**

State "not established" in case no ATBD has been established

Courcoux, N. and M. Schröder: ATOVS tropospheric humidity and temperature data set, Algorithm Theoretical Basis Document, ATOVS edition 1. SAF/CM/DWD/ATBD/ATOVS, issue: 1.0, 15 October 2012, www.cmsaf.eu/docs.

43. User manual to explain how to work with data record

For each referenced document, provide as a minimum the following information:

- 1.) Authors(s)**
- 2.) Document title**
- 3.) Year of creation**
- 4.) URL to document (if available)**

State "not established" in case no user manual has been established

Courcoux, N. and M. Schröder: ATOVS tropospheric humidity and temperature data set Product User Manual ATOVS edition 1. SAF/CM/DWD/PUM/ATOVS, issue: 1.1, 04 February 2013, www.cmsaf.eu/docs.

44. Articles in peer-reviewed journals or conference proceedings based on data record

For each referenced document, provide as a minimum the following information:

- 1.) Authors(s)**
- 2.) Document title**
- 3.) Year of creation**
- 4.) URL to document (if available)**

State "not established" in case data record has not yet been described in the scientific literature.

Li, J., W. W. Wolf, W. P. Menzel, W. Zhang, H.-L. Huang, and T. H. Achtor (2000), Global sounding of the atmosphere from ATOVS Measurements: the algorithm and validation. Journal of applied meteorology, vol. 39, pp 1248-1268.

45. Name of the data transfer format(s)

Example: NetCDF

NetCDF

46. Version of the format (date, number, etc.)

Example: 3.6.0

3

47. URL(s) to data record (via http, https, ftp, scp, ...)

Fictitious example of an URL: <https://www.beautifuldata.org/TCWV/5.0/>

State "not available online" in case data record can't be accessed over the internet

<http://wui.cmsaf.eu>

48. Size of data record in the format specified above, expressed in megabytes

Example: 566 (for a file size of 566 MB, see e.g. [this tool](#) to convert between file size units)

Transfer size (in MB) - 160000

49. Instructions for users to enable data access (if necessary)

Example: Data record is password protected, please contact the responsible person to obtain the access credentials

Go to <http://wui.cmsaf.eu>. Then: ->Products->Product Search->Climate Data Sets/ Water vapour and temperature products Data is freely available. However, a registration is required. Support is given via contact.cmsaf@dwd.de

50. Additional information of relevance to potential users

Please provide feedback to marc.schroeder@dwd.de or contact.cmsaf@dwd.de

51. Feedback to this G-VAP data record entry form

Have we missed relevant aspects concerning "your" data record?

Are some aspects covered in too much detail?

Do you have suggestions for improving this entry form?

Keine Beantwortung

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