

Umfrage entwerfen

Beantwortungen erfassen

Ergebnisse analysieren

Übersicht anzeigen

Standardbericht

Beantwortungen  
durchsuchen

7 von 7 Befragten wird/werden angezeigt

Beantwortungen filtern

Kreuztabelle erstellen

**Beantwortungstyp:**  
Normale Beantwortung**Collector:**  
G-VAP Metadata (Dataset 03)  
(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:**  
26. September 2013 11:45:56**Beantwortung geändert:**  
26. September 2013 13:49:03**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 in 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**

26/09/2013

**6. Event used to describe the catalogue entry reference date**

Creation

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

free tropospheric humidity from METEOSAT

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

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FTH METEOSAT

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**9. Processing version of the data record**

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

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edition 1

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**10. Purpose of data record within G-VAP**

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Dataset to be evaluated

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**11. Language(s) used within data record**

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

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ENG [english]

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**12. Reference date for the data record**

**Format: DD/MM/YYYY**

**Example: 13/11/2006**

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15/07/2013

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**13. Event used to describe the data record reference date**

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Publication

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**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:

- a) Aim to be understood by non-experts
- b) Do not include general background information
- c) Avoid jargon and unexplained abbreviations
- d) The abstract should be in English
- e) 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**

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The CM SAF Free Tropospheric Humidity (FTH) data set from METEOSAT2-5 and METEOSAT7-9 provides the mean relative humidity over a deep layer of the troposphere within  $\pm 45^\circ$  longitude and  $\pm 45^\circ$  latitude. The retrieval was developed at Centre National de la Recherche Scientifique (CNRS) and - after transfer to CM SAF - CM SAF and CNRS jointly extended the time series into the SEVIRI era. The product is defined under clear sky and low level cloud conditions and is available at 3-hourly temporal resolution and as monthly averages (straightforward averages over all valid observations) on a regular latitude/longitude grid with a spatial resolution of  $0.625^\circ \times 0.625^\circ$ . The temporal coverage of the data sets ranges from July 1983 to December 2009. The METEOSAT6 period, March 1997-May 1998, is not covered. The FTH layer position and thickness depends on atmospheric condition, in particular water vapour content in the free troposphere. The clear sky radiance is provided as auxiliary information layer and is owned by CNRS (up to 2005) and CM SAF (else).

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

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Relative humidity (%)

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**16. Processing level according to the WMO definition**


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 Level 3: Remapped (gridded) product based on geophysical value derived at instrument pixel resolution
 

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


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 No
 

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


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 Other (please specify) - clear sky brightness temperature
 

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**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		
CERES		
CrIS		
ERBE		
GOME		
GOME-2		
HIRS		
IASI		
MERIS		
MHS		
MODIS		
MVIRI	X	
MWR		
POLDER		
SCIAMACHY		
SEVIRI	X	
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:: ERA Interim as ancillary input*

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**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	X	
ERA Interim		
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.

0.625°

### 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.

0.625°

### 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.

N=1

### 25. Typical timespan between sequential information in data record

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

### 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 - 45

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Southernmost latitude - 45

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Easternmost longitude - 45

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Westernmost longitude - 45

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### 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.**

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>10000

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### 29. Vertical extension represented by the data record

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

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Bottommost boundary - 500

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Topmost boundary - 300

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Comment - depends on atmospheric condition

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### 30. Time span covered by data record

**Format: DD/MM/YYYY**

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Earliest date - 17/07/1983

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Latest date - 31/12/2009

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### 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)**

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The validation of the FTH product exhibited an increase in bias between summer 1988 and summer 1990 and a maximum in bias in January 1996, with generally spurious biases in 1996. The METEOSAT 6 period is not part of the data record. The product is defined in clear sky conditions and above low level clouds. Strongest quality degradation can be expected when high level clouds are not correctly identified. For data until February 1997 coastal areas exhibit spurious quality due to issues in cloud detection. The retrieval is not reliable over elevated terrain with surface pressures less than 700 hPa because the weighting function might reach the surface.

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### 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.**

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Adheres to the G-VAP data policy

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### 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.**

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Brightness temperatures are taken from ISCCP-DX (until June 2006) and DWD archive (since July 2006). Cloud information is taken from ISCCP-DX. The clear sky brightness temperature was provided by CNRS for the period July 1983 - June 2005. For July 2005 onwards processing was done at DWD/CM SAF. The brightness temperatures have

been homogenised in January 2001, July 2006 and May 2007. The retrieval was developed at CNRS and is e.g. described in Roca et al. (2012), together with recomputed regression coefficients. The p0 parameter is computed on basis of ERA Interim data.

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#### 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.***

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The brightness temperatures have been homogenised six times following the method described in Picon et al. (2003). The average RMSD is 1.3 K, the average bias is 0 K with maximum values ~1.5 K.

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

The average bias and RMSD are -1.1 and 4.6 %RH, respectively. The stability is 0.5 K and exhibits large variability.

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#### 36. Method used for data record evaluation

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

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#### 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)***
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Analysed RadioSoundings Archive (ARSA), ARA/LMD/CNRS, available after registration at <http://ara.abct.lmd.polytechnique.fr/index.php?page=arsa-database>.

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#### 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***

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Schröder, "Validation report on FTH", 2012, available at [http://www.cmsaf.eu/bvbw/generator/CMSAF/Content/Publication/pdf/SAF\\_CM\\_DWD\\_VAL\\_FTH\\_1.2.templateId=raw.property=publicationFile.pdf](http://www.cmsaf.eu/bvbw/generator/CMSAF/Content/Publication/pdf/SAF_CM_DWD_VAL_FTH_1.2.templateId=raw.property=publicationFile.pdf)  
/SAF\_CM\_DWD\_VAL\_FTH\_1.pdf

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#### 39. Targeted user segment(s) for data record

***Example: Meteorological services, environmental authorities***

***State "not established" if user segments have not been analysed***

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

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#### 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***

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

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#### 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

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

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#### 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

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Schröder and Roca, "Algorithm Theoretical Basis Document - FTH", 2012, available at [http://www.cmsaf.eu/bvbw/generator/CMSAF/Content/Publication/atbd\\_\\_pdf/SAF\\_CM\\_DWD\\_ATBD\\_FTH\\_1.2,templateId=raw,property=publicationFile.pdf](http://www.cmsaf.eu/bvbw/generator/CMSAF/Content/Publication/atbd__pdf/SAF_CM_DWD_ATBD_FTH_1.2,templateId=raw,property=publicationFile.pdf)  
[/SAF\\_CM\\_DWD\\_PUM\\_FTH\\_1.1,templateId=raw,property=publicationFile.pdf](http://www.cmsaf.eu/bvbw/generator/CMSAF/Content/Publication/SAF_CM_DWD_PUM_FTH_1.1,templateId=raw,property=publicationFile.pdf)

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#### 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

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Schröder, "Product User Manual - FTH", 2012, available at [http://www.cmsaf.eu/bvbw/generator/CMSAF/Content/Publication/SAF\\_CM\\_DWD\\_PUM\\_FTH\\_1.1,templateId=raw,property=publicationFile.pdf](http://www.cmsaf.eu/bvbw/generator/CMSAF/Content/Publication/SAF_CM_DWD_PUM_FTH_1.1,templateId=raw,property=publicationFile.pdf)  
[/SAF\\_CM\\_DWD\\_PUM\\_FTH\\_1.pdf](http://www.cmsaf.eu/bvbw/generator/CMSAF/Content/Publication/SAF_CM_DWD_PUM_FTH_1.pdf)

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#### 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.

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not established

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#### 45. Name of the data transfer format(s)

**Example: NetCDF**

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NetCDF

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

**Example: 3.6.0**

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3

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#### 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**

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<http://wui.cmsaf.eu>

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**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)**

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Transfer size (in MB) - 13000

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**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**

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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](mailto:contact.cmsaf@dwd.de)

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**50. Additional information of relevance to potential users**

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Please provide feedback to [marc.schroeder@dwd.de](mailto:marc.schroeder@dwd.de) or [contact.cmsaf@dwd.de](mailto:contact.cmsaf@dwd.de)

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**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?**

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**Keine Beantwortung**

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