Standardbericht

1 von **7** Befragten wird/werden angezeigt

Beantwortungstyp:
Normale Beantwortung

Collector:
G-VAP Metadata (Dataset 01)
(E-Mail-Einladung)

E-Mail-Adresse:
marc.schroeder@dwd.de

Name:
Marc Schroeder

Benutzerdefinierter Wert:
leer

IP-Adresse:
141.38.1.12

Beantwortung gestartet:
11. Juni 2013 08:12:13

Beantwortung geändert:
21. Juni 2013 17:03:32

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, Max-Planck-Institut für Meteorologie (MPI for Meteorology), Universität Hamburg (University of Hamburg)

2. Commonly used acronym or short name for the above organisation

Example: DWD

CM SAF, MPI-M, UHH

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

11/06/2013

6. Event used to describe the catalogue entry reference date

Creation

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

Hamburg Ocean and Atmosphere Parameters and Fluxes from Satellite data

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

HOAPS

9. Processing version of the data record

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

V3.2

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

07/12/2010

13. Event used to describe the data record reference date

Revision

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

The Hamburg Ocean Atmosphere Parameters and Fluxes from Satellite Data (HOAPS) set is a completely satellite based climatology of total column water vapour (kg/m2), near surface specific humidity (g/kg), wind speed, precipitation, evaporation and freshwater budget (evaporation minus precipitation) as well as related turbulent heat fluxes over the global ice free oceans. All variables are derived from SSM/I passive microwave radiometers, except for the sea surface temperature (SST), which is taken from AVHRR measurements. The data set includes multi-satellite averages, inter-sensor calibration, and an efficient sea ice detection procedure. Main changes in this version are a prolonged time series, now containing data for the time period from 1987 until end of 2008 and an updated processing of the level-1 SSM/I brightness temperatures. The physical retrieval algorithms remain unchanged compared to HOAPS 3.0. All HOAPS products have global coverage, i.e., within ±180° longitude and ±80° latitude and are only defined over the ice-free ocean surface. The products are available as monthly averages and 6-hourly composites on a regular latitude/longitude grid with a spatial resolution of 0.5° x 0.5° degrees. Grid information is given for centre position. 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 downloaded from www.cmsaf.eu/docs.

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

Total column integrated water vapour (kg/m2)
Other (Use Table 4.2 of the WMO Codes to specify parameters not listed above) - near surface specific humidity (at 10 m)

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) - Pathfinder SST (sea surface temperature)

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		
MWR		
POLDER		
SCIAMACHY		
SEVIRI		
SSM/I	X	
SSM/IS		
TES		
TOVS		

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

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.

0.5 deg

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.

0.5 deg

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

Keine Beantwortung

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 - 79.75
Southernmost latitude - -79.75
Easternmost longitude - 179.75
Westernmost longitude - -179.75

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
720x320

29. Vertical extension represented by the data record

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

Bottommost boundary - 1013 hPa
Topmost boundary - 0.01 hPa
Comment - TCWV: surface to top of atmosphere

30. Time span covered by data record

Format: DD/MM/YYYY

Earliest date - 09/07/1987
Latest date - 31/12/2008

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) Product available over ice-free ocean (limitation). 2) All sky except for high atmospheric water content (e.g., precipitation, limitation). 3) Reduced quality at very cold and very dry conditions (known issue).

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 homogenised SSM/I brightness temperatures (Andersson et al., 2010) and Pathfinder SST, based on AVHRR (V5, Casey 2004, from NODC/RSMAS). The statistical retrieval is decribed in Schlüssel and Emery (1990). The HOAPS data record has been developed at the University of Hamburg and the Max-Planck-Institute for Meteorology. They released the data record with versions 1-3.Within a Research and Operation activity HOAPS has been transferred to CM SAF. CM SAF, together with UHH and MPI-M, released version 3.2. The data record and its documentation is subject to external review before the data record is released. Next updates: Utilise SSM/I and SSMIS FCDR from CM SAF, implement physical retrieval, provide uncertainty estimates.

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 homogenisaiton method is described in Andersson et al. (2010). Through intensive geophysical product evaluation they indirectly confirm good quality of radiance data record.

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

Mean bias and RMSD are ~0.5 kg/m2 and ~3 kg/m^2, respectively. The stability relative to Remote Sensing System V6 data is 0.05%/decade (validation report and Schröder et al., 2013). The data record itself does not contain 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)

Assessment: Participation in independent assessment (provide details in Other/Comments field)

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) SSM/I based TCWV from Remote Sensing System Vserion 6 (RSS V6), RSS, www.ssmi.com. 2) TMI, RSS, www.ssmi.com. 3) ERA-Interim, ECMWF, www.ecmwf.int 4) JRA-25, JMA, http://jra.kishou.go.jp/JRA-25/

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

Jonas, M., Schr¨oder, M., Schulz, J., Andersson, A., Bakan, S., Fennig, K., Grassl, H., and Klepp, C. P.: Vertically Integrated Water Vapour from SSM/I – Daily/Monthly Means, Satellite Application Facility on Climate Monitoring, doi:10.5676/EUM_SAF_CM/HTW_SSMI/V001, 2009 (www.cmsaf.eu/docs) Schröder, M., Jonas, M., Lindau, R., Schulz, J., and Fennig, K. (2013): The CM SAF SSM/I-based total column water vapour climate data record: methods and evaluation against re-analyses and satellite. Atmos. Meas. Tech., 6, 765–775, doi:10.5194/amt-6-765-2013.

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 climate trends and 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

Fennig, K., A. Andersson, M. Schröder: Algorithm Theoretical Basis Document HOAPS release 3.2. SAF/CM /DWD/ATBD/HOAPS, Issue 1.1, 25.03.2011 (www.cmsaf.eu/docs). TCWV: see Schröder et al. (2013).

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

Fennig, K., A. Andersson, M. Schröder: Product User Manual SSM/I data set products HOAPS release 3.2. SAF/CM /DWD/PUM/HOAPS, Issue 1.1, 25.03.2011 (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.

Andersson, A., C. Klepp, K. Fennig, S. Bakan, H. Graßl, and J. Schulz, 2010a: Evaluation of HOAPS-3 ocean surface freshwater flux components. Journal of Applied Meteorology and Climatology, doi:10.1175/2010JAMC2341.1. Andersson, A., K. Fennig, C. Klepp, S. Bakan, H. Graßl, and J. Schulz, 2010b: The Hamburg Ocean Atmosphere Parameters and Fluxes from Satellite Data – HOAPS-3. Earth System Science Data Discussion, 3, 143-194, doi:10.5194/essdd-3-143-2010. Schröder, M., Jonas, M., Lindau, R., Schulz, J., and Fennig, K. (2013): The CM SAF SSM/I-based total column water vapour climate data record: methods and evaluation against re-analyses and satellite. Atmos. Meas. Tech., 6, 765–775, doi:10.5194/amt-6-765-2013.

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, ...)

Fictious 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) - 83000

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/ Miscellaneous Data is freely available. However, a registration is requried. 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?

None.