G-VAP Catalogue Entry Editor

Instructions for filling in this form:

1.) Questions preceded by an asterisk (*) are mandatory and need to be answered before you can move on to the next page.

2.) Information is only saved after you have filled in **all mandatory questions on a page and have clicked the "next" button.** *Hint: use dummy entries if you need to quickly save your feedback.*

3.) You don't have to fill in the form in one go. You can come back any time by simply clicking on your personal access link.

4.) **Only one data record can be registered per access link.** Please contact us if you want to register more than one data record. We will then provide you with the required number of additional links.

5.) Some mandatory questions may seem irrelevant to you. However, these are required to achieve compliance with the WMO metadata profile.

6.) Please try to keep the information provided as concise as possible. Two focused sentences are better than copying&pasting two pages of rather general information.

7.) The effort to fill in the form depends both on the complexity of the data record as well as the amount of documentation readily available to you. Based on our own experience, we assume the time typically needed to fill in the form to range **between 45 min and 2 h**.

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G-VAP point of contact

Point of contact for all issues related to the data record described by this catalogue entry.

***1. G-VAP contact person for the data record described below**

Format: Last name, first name
Example: Smith, Jane

***2. E-mail address of the G-VAP contact person**

***3. Organization(s) owning the data record described below**

Format: Official name in national language (English if available)
Example: Deutscher Wetterdienst (German Weather Service)

4. Acronym or short name for the above organisation

Example: DWD

***5. Reference date for this G-VAP catalogue entry**

Format: DD/MM/YYYY
Example: 31/12/2012

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

- Creation
- Publication
- Revision
- Other (please specify)

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Basic information to uniquely identify the data record

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

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

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

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

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

- ☐ Dataset to be evaluated
- ☐ Ancillary data contributing to evaluation
- ☐ Other (please specify)

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

Format: Provide language codes according to ISO 639-2

- ☐ ENG [english]
- ☐ FRA [french]
- ☐ DEU [german]
- ☐ Other (please specify)

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

Format: DD/MM/YYYY
Example: 13/11/2006

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

- ○ Creation
- ○ Publication
- ○ Revision
- ○ Other (please specify)

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Summary of the data record's contents

***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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Further characterisation of the data record

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

- [ ] Specific humidity (kg/kg)
- [ ] Relative humidity (%)
- [ ] Precipitable water (kg/m2)
- [ ] Total (vapour + cloud water/ice) column water (kg/m2)
- [ ] Total column integrated water vapour (kg/m2)
- [ ] Temperature (K)
- [ ] Upper tropospheric (relative) humidity [UTH/UTRH] (%)
- [ ] Other (Use Table 4.2 of the WMO Codes to specify parameters not listed above)

*16. Processing level according to the WMO definition

- [ ] Level 0: Raw data
- [ ] Level 1: Geophysical value (temperature, humidity, radiative flux…) at instrument pixel resolution
- [ ] Level 2: Derived geophysical variables at the same resolution and location as the Level 1 data
- [ ] Level 3: Remapped (gridded) product based on geophysical value derived at instrument pixel resolution
- [ ] 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
- ○ Yes, for parts of the Level-3 data record
- ○ No

Comment

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

- [ ] A priori estimates
- [ ] Averaging kernels
- [ ] Cloud flags
- [ ] Radiances
- [ ] Retrieval uncertainties
- [ ] None
- [ ] Other (please specify)

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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)	Ancillary instrument(s)
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	○	○
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)	Ancillary instrument(s)
NONE	○	○
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	Ancillary data source
NONE	○	○
ERA Interim	○	○
JRA55	○	○
MERRA	○	○
NCEP/DOE R2	○	○

Other (please specify):

Horizontal, vertical, and temporal resolution

***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.

***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.

***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.

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

- ☐ Continuous
- ☐ 1-minute
- ☐ 5-minute
- ☐ 10-minute
- ☐ 30-minute
- ☐ Hourly
- ☐ 3-hourly
- ☐ 6-hourly
- ☐ 8-hourly
- ☐ 12-hourly
- ☐ Daily
- ☐ Weekly
- ☐ 10-daily
- ☐ Fortnightly
- ☐ Monthly
- ☐ Quarterly
- ☐ Biannually
- ☐ Annually
- ☐ Decadally
- ☐ Irregularly
- ☐ Non-sequential
- ☐ Other (please specify)

Spatio-temporal extension of the data record

***26. 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	
Southernmost latitude	
Easternmost longitude	
Westernmost longitude	

***27. 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.

- ○ 1
- ○ 2-10
- ○ 11-100
- ○ 101-1000
- ○ 1001-10000
- ○ >10000

Other (please specify)

***28. Vertical extension represented by the data record**

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

Bottommost boundary	
Topmost boundary	
Comment	

*29. Time span covered by data record

Format: DD/MM/YYYY

Earliest date	
Latest date	
Comment	

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Restrictions on access and use

***30. 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)

***31. 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.

- ○ Unrestricted (data record is in the public domain)
- ○ Adheres to the G-VAP data policy
- ○ Does not adhere to G-VAP data policy (please specify)

Quality information

***32. 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.

***33. 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.

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

*35. Method used for data record evaluation

- ☐ DirectExternal: External data have been used for evaluation (e.g. independent observations)
- ☐ Indirect: External knowledge has been used for evaluation (e.g. plausibility considerations)
- ☐ DirectInternal: Internal data have been used for evaluation (e.g. consistency checks)
- ☐ Assessment: Participation in independent assessment (provide details in Other/Comments field)
- ☐ None: Data record has not been evaluated
- ☐ Other/Comments

36. 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)

37. 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

Consideration of user requirements

***38. Targeted user segment(s) for data record**

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

***39. Thematic application area for the data record**

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

***40. 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

Supporting documentation

***41. 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

***42. 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

***43. 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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Distribution of data record

***44. Name of the data transfer format(s)**

Example: NetCDF

***45. Version of the format (date, number, etc.)**

Example: 3.6.0

***46. 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

***47. 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)

48. 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

Remarks / feedback

49. Additional information of relevance to potential users

50. 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?