



Data policy for different release phase versions

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- Issue raised by some sites:
 - Restrict sharing data of certain instruments connected to the radiosonde
- Considerable part of GRUAN measurement effort remains invisible
 - RS41 EDT data only available in intercomparison database
- ICM-9: only publish GRUAN-certified data products



Radiosondes

- RS41
- RS92
- DFM09/17

Operational research

- Ozone sonde
- CFH
- COBALD

“Guests”

- Skydew
- FLASH-B
- PCFH

- A facility for imposing **time limits** on making the data available to the end-user community for different sites should be implemented as this does not contravene WMO Resolution 40 (Cg-XII).
In this way sites are more likely to be willing to make their raw data immediately available within the GRUAN community without compromising their rights to first publication of the data (some funding agencies may even insist that such a data policy is in place).
- GRUAN complies to WMO resolution 42 (Cg-Ext2021)
 - free and unrestricted access to measurement data
 - **Core observational data for Climate**: Data shall be made available in a timely manner, with a **tentative** maximum delay of one year.
- How long should this time limit be?

- Draft-version, based on discussion at ICM-11 (September 2020)

- Original Raw
 - Manufacturer-generated raw data (e.g. DC3DB, MWX, GSFZ)
 - Includes metadata, processed data, **additional sondes (Ozone, CFH, CPS etc)**

- Converted Raw
 - same as Original Raw, in NetCDF format

- **Intermediate Raw (NetCDF)**
 - **Composite, filtered data, tailored for a specific application**
 - **e.g. Radiosonde GDP + raw data CFH**

- EDT
 - Manufacturer-processed data, in NetCDF format
 - Application: intercomparisons

➤ GDP

- GRUAN data product (NetCDF)
- Includes a.o. uncertainties, corrections, raw data, metadata
- Maturity levels
 - Alpha - development stage
 - Beta - ready for analysis/validation/certification
 - Numbered version (GDP-2) final data product

1. LC
2. GRUAN-internal / GRUAN community
 - WG + TT
3. External on request
 - Registered users
 - Campaigns, special interest in GRUAN data. Not part of 2
4. World
 - Freely available to everyone

		Lead Centre	GRUAN internal	External on request	World
Original Raw		✓			
Converted Raw (NetCDF)		✓	✓		
Intermediate Raw (netCDF)		✓	✓	✓	
EDT (netCDF)		✓	✓	✓	✓
GDP (netCDF)	Alpha	✓	✓	✓	
	Beta	✓	✓	✓	
	Final	✓	✓	✓	✓

To ensure first-publication rights for the site in case of e.g. campaign activities.

- Not for essential (regular?) GRUAN measurements
 - Radiosoundings, GNSS-PW, Strat. H₂O observations

- Can be implemented via the Intermediate-Raw data format

- M. Maturilli:
 - FAIR use of data by public users
 - see e.g. BSRN data policy <https://bsrn.awi.de/data/conditions-of-data-release/>

- Recognition for sites' efforts: site-specific DOI-numbers

Data Release Guidelines

(1992–2017), Earth Syst. Sci. Data, 10, 1491-1501, doi:10.5194/essd-10-1491-2018, 2018.

BSRN data sets provided by the WRMC must not be passed to a third party without the agreement of the WRMC. The above restriction shall not apply to any BSRN data which are made public through publication, presumably with some added value, and/or are incorporated into additional project(s) for wide release. In such events all BSRN data should be clearly identified as such in that release, with information as to how to obtain the original data directly from the BSRN archive. A copy of the publication is to be provided directly to the originator or preferably via the WRMC who will forward it to the originator. The direct commercial use (selling) of the data is forbidden.

All datasets retrievable directly via ftp and PANGAEA are read account restricted. Only persons who follow the data release guidelines are allowed to use the data. Read accounts for both - PANGAEA and ftp access - can be obtained from [Amelie Driemel](mailto:amelie.driemel[at]awi.de) ([amelie.driemel\[at\]awi.de](mailto:amelie.driemel[at]awi.de)).