GRUAN data policy

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Motivation

- Issue raised by some sites:
  - Restrict sharing data of certain (non-GRUAN) instruments connected to the radiosonde
  - Delayed distribution of campaign data

Extended payload

Radiosondes
- RS41
- RS92
- DFM09/17
- iMS-100
- M10

Operational research
- Ozone sonde
- CFH
- COBALD
- Skydew

“Guests”
- FLASH-B
- PCFH
- ALBATROSS

Data types

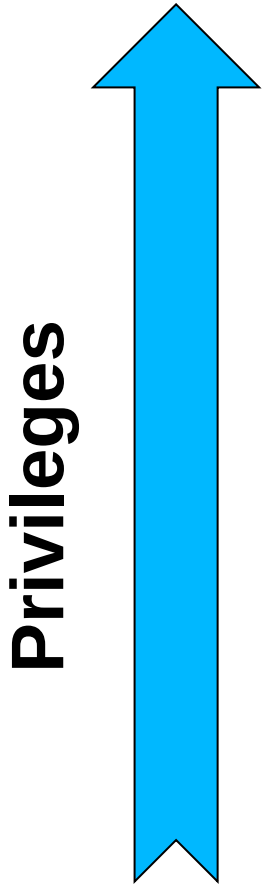
- Original Raw
  - Manufacturer-generated raw data (e.g. DC3DB, MWX, GSFZ)
  - Includes metadata, processed data, additional sondes (Ozone, FPH, CFH, CPS etc)
- Converted Raw
  - same as Original Raw, in NetCDF format. Better accessibility than original raw
- Intermediate Raw (NetCDF)
  - Composite, filtered data, tailored for a specific application
  - e.g. Radiosonde GDP + raw data CFH
- EDT
  - Manufacturer-processed data, in NetCDF format
  - Application: intercomparisons

Data types cont'd

- GDP
  - GRUAN data product (NetCDF)
  - Includes a.o. corrected measurement data, uncertainties, corrections, raw measurement data, metadata
- Integrated GDP
  - Combined GDPs of various instruments. E.g. multiple radiosondes from same payload, radiosonde + frostpoint hygrometer, RS + coincident GNSS-PW
- GDP Maturity levels
  - Alpha - development stage
  - Beta - ready for analysis/validation/certification
  - Numbered version (GDP-V2) final data product

Data users classification

1. LC + specialists
   - Site, processing centre, product developer
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



Data distribution scheme

Table 1: Data access scheme to different data levels for various user groups.

		Lead Centre + specialists (Group 1)	**GRUAN internal** (Group 2)	**External on request** (Group 3)	**World** (Group 4)
Original Raw		✓			
Converted Raw (NetCDF)		✓	✓		
Intermediate Raw (NetCDF)		✓	✓	✓	
EDT (NetCDF)		✓	✓	✓	✓
GDP (NetCDF)	Alpha	✓	✓	✓	
	Beta	✓	✓	✓	
	Final	✓	✓	✓	✓

Data retention

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

- Not for the measurements that are part of the site's GRUAN commitment
  - E.g. operational radiosoundings, GNSS-PW, regular strat. H_2O observations
- Additional measurements that are defined by campaign plan
  - Comparisons, targeted soundings (overpasses, events)
- Site manager to apply with LC
- Maximum period 12 months.
  - Data, GDPs etc withheld from distribution

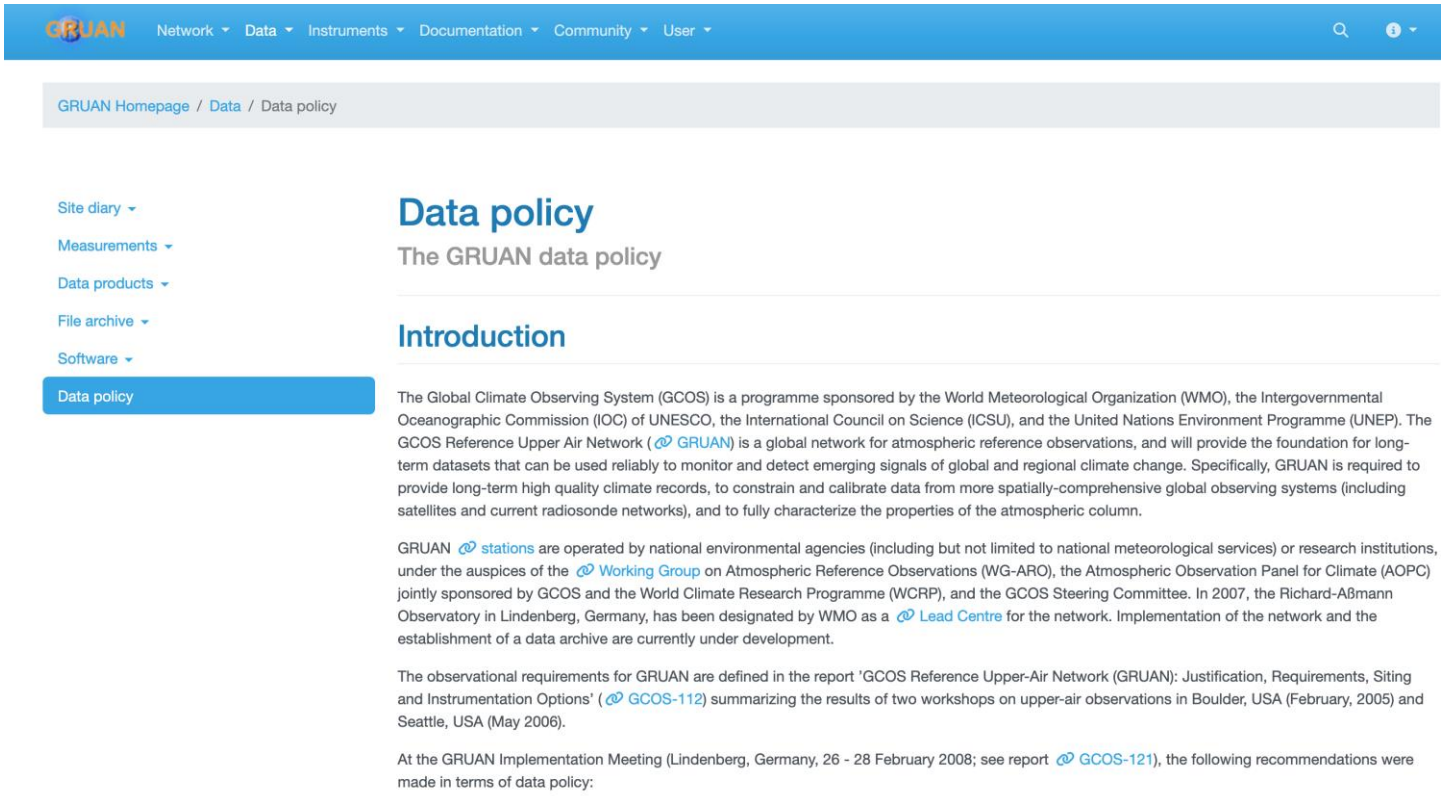
GRUAN-processed data

- Processing requests for data from non-GRUAN sites
  - Campaigns etc
  - Provide reference data to research community
- Distinguishable from data from GRUAN sites
  - Recognition of efforts of GRUAN site
- To be referred to as

  GRUAN-processed data

Data policy (website)

- Acknowledgement of GRUAN GDP data usage
- Co-authorship for special efforts by LC, GDP developer, PC



Data policy

- Acknowledgement
  - In publications: DOI referencing (DOIs for individual sites if available)
- Co-authorship
  - radiosonde GDP data: co-authorship would be appreciated.
  - GRUAN-processed radiosonde data: co-authorship should be offered to GDP-developer(s) & processing centre.
  - non-radiosonde GDP data: offer co-authorship to the GDP developer and the site's instrument scientist

GRUAN TN-10

- Draft shared with co-chairs WG and co-chairs TT-sites