



Current quality check system in the production of GDPs



Michael Sommer

GRUAN Lead Centre, DWD

15th GRUAN Implementation and Coordination Meeting (ICM-15)

Bern, Forum 1, 11 March 2024



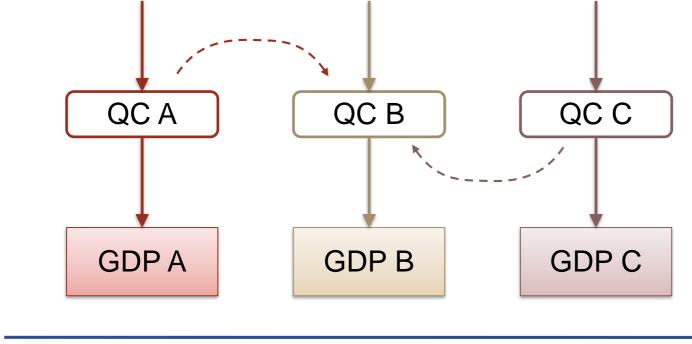




ead Centre



- > No uniform standard for quality control
- Each developer team of GDPs use own ideas and steps
- > If steps are documented in TD \rightarrow may have an influence on others







- Data availability checks
 - \rightarrow missing data tables; too short measurement
- Raw data checks
 - \rightarrow check "input" data before usage
- Specific checks within processing steps
 - \rightarrow launch detection; protect calculations
- Final quality check of a finally processed variable (T, p, U, …)
 → value range of variables and uncertainties
- Consistency checks of components
 - \rightarrow uncertainty portions; raw with correction should be equal to corrected

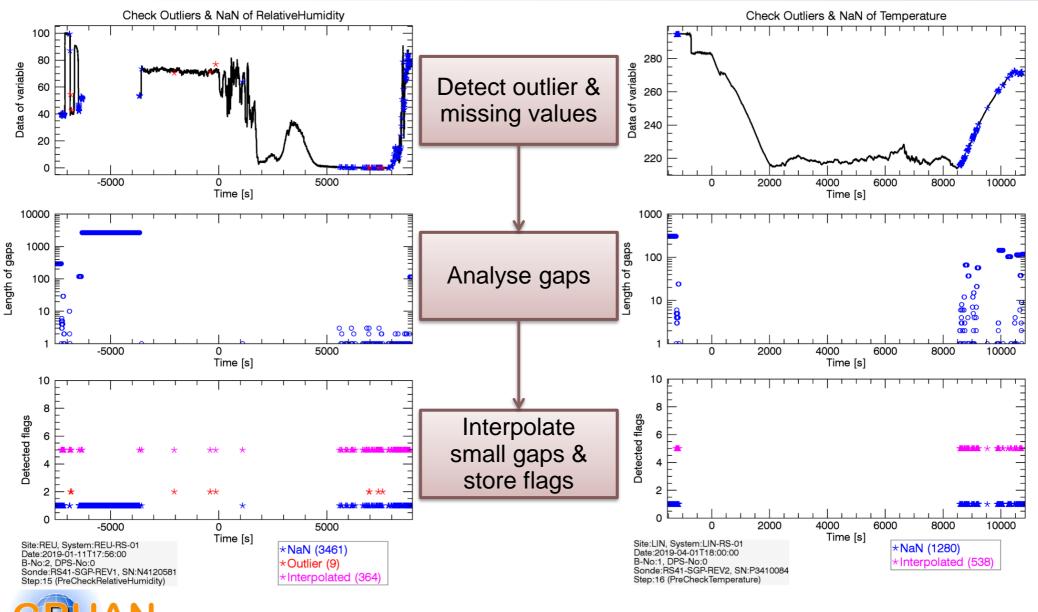




Raw data checks

Deutscher Wetterdienst Wetter und Klima aus einer Hand





Lead Centre M. Sommer – 2024-03-11 – Bern – Page 4

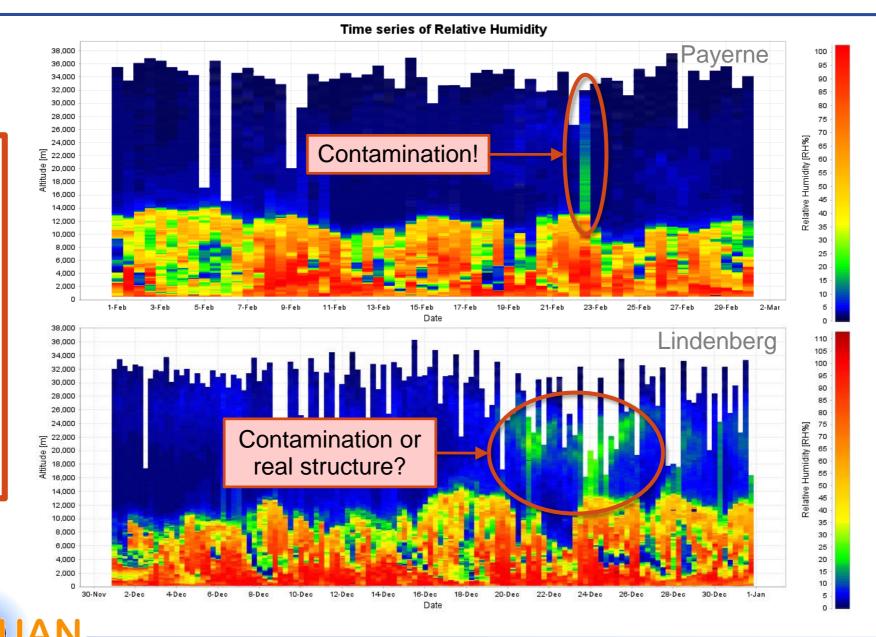
Lindenberg Meteorological Observatory Richard-Aßmann-Observatory



Assessment: realistic measurement? Deutscher Wetterdienst



Wetter und Klima aus einer Hand





M. Sommer – 2024-03-11 – Bern – Page 5

Not implemented yet!

ead Centre

Lindenberg Meteorological Observatory Richard-Aßmann-Observatory





- > No uniform standard for quality control
- Many specific steps of quality control (raw, in between, final)
- > No assessment is made as to whether these are realistic measurements.



