



QC/QA flagging ad hoc group progress report (HP3)

QTF team,
assembled by Tzvetan Simeonov
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14th GRUAN Implementation and Coordination Meeting (ICM-14)

Saint-Denis, La Reunion

Session 10, 2 December 2022

Status from last meeting in ICM-11

- RS92-GDP.2 → some rules are defined by LC → incl. assessment
- RS-11G-GDP.1 → other rules are defined by PC → NO assessment
- Until now → NO GRUAN-wide scheme and NO general rules for controlling & assessment are defined yet

- The Lead Centre should not dictate such rules!
 - Some ideas are available, but more are necessary
 - Discussion is really needed with interested persons from community
 - A formal definition of rules is required (published as TN or part of TD)

- Wanted! → Group of persons to
 - think about general scheme and details → discuss and decide
 - write down and publish as official GRUAN document

Do we want GDP conformity?

Parameter naming convention in RS GDP's

Deutscher Wetterdienst
Wetter und Klima aus einer Hand



	RS92GDP	M10	iMS-100	RS41GDP
Parameter	temp	temp	temp	temp
Parameter uncertainty	u_temp	temp_uc	temp_uc	temp_uc
Parameter correction	cor_temp	temp_corr_rad	temp_corr_rad	temp_corr_rad
Parameter uncertainty component	u_cor_temp u_ucor_temp	temp_corr_rad_uc	temp_uc_cor_rad_albedo temp_uc_ucor_rad_corr_orientation	temp_uc_ucor_rad temp_uc_tcor_rad temp_uc_scor_rad
Parameter flag	-	temp_raw_flags	temp_raw_flags	temp_raw_flags
Additional parameters	-	temp_tropo temp_ams temp_ref temp_shc100	-	-
K-value for uc's	k=1	k=2	k=1	k=2



- RS41 & iMS-100 - g.Measurement.StartTime
- RS11G & RS92 - g.Ascent.StartTime
- M10 - time_coverage_start
- List of compulsory attributes (incl. clouds)
- Naming of compulsory attributes
- Convention for additional attributes

New TN on the way

- Convention:
 - Standardized naming convention across GDP's
 - Enhanced uncertainties at interpolated points
 - Raw data contain ONLY raw data
 - Flag for level 0 domain on smoothing/interpolation/etc.
 - All corrections explicitly presented in separate sub-variables

- Convention:
 - Interpolation of gaps up to 10 points (Fasso et. al.)
 - Enhanced uncertainties

Interpolation uncertainty of atmospheric temperature radiosoundings

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Abstract. This paper is motivated by the fact that, although temperature readings made by Vaisala RS41 radiosondes at GRUAN sites (www.gruan.org) are given at 1 s resolution, for various reasons, missing data are spread along the atmospheric profile. Such a problem is quite common in radiosonde data and other profile data. Hence, (linear) interpolation is often used to fill the gaps in published data products. In this perspective, the present paper considers interpolation uncertainty. To do this, a statistical approach is introduced giving some understanding of the consequences of substituting missing data by interpolated ones.

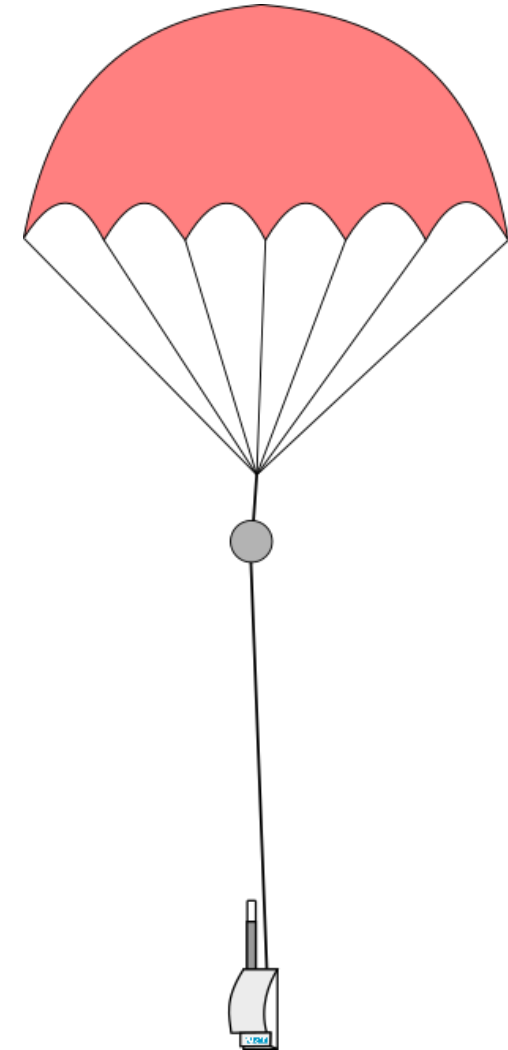
- Convention:
 - Action on interpolation gap length and convention by ICM-15

- Convention:
 - Consultations with GNSS community to establish best practice

- Convention:
 - TBD after Temp, RH and coordinates are fixed

Thanks to QTF team

- Gratitude for contributions from Alessandro, Christoph, Dale, Frederic, Gianni, June, Masatomo, Michael, Shunsuke, Tom, Fabio, Jo, Galina, Peter, Peteri, Antoine, Johannes and Tony



Do you want to watch a UAI12022 video?

- Flight F56 from the UAI2022 campaign
- Traveled distance 100.5km

