



GRUAN Radiosonde Fundamental Document

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- Introduction
- Importance of radiosondes
- Radiosoundings and functional principles of radiosondes
- Measurement practise
- Guidance on multi-instrument flights
- Sources impacting data quality reference quality
- GRUAN data products
- Data management
- Quality management, postprocessing analysis
- Change management

Drafts;
(to be reviewed/updated)

Detailed outlines;
text material available

Not yet started

- No substantial progress since last report (ICM-13)
- Authorship of unfinished chapters at LC;
high number of other tasks with higher priority, in particular UAI 2022
- Existing material at LC:
 - Data management (data collection, file format definitions, operation of processing centres, GDP processing, archiving, data distribution)
 - Description of experiments for sensor characterisation (humidity and temperature calibration, humidity time-lag, rad. error)
 - GRUAN ground check procedures
 - Guidance for multi-instrument flight configurations and rigging (TD 7 multiple payload, TN 7 recommendations for dual soundings)
 - Experience from WMO inter-comparison campaign
- Next steps:
 - Review of current status/contributions (all authors); continue writing
 - Extend team of authors?
 - Summarise and distribute information where input or expertise is needed (e.g. TT-Radiosonde)