



GATNDOR side meeting

Scope

The team performs focused, short-term analyses of existing observations to address specific topics identified by the GRUAN science and management community.

Summary

- 3 Topics (unchanged for the moment)
- 4 new topic/scientific question proposed to GRUAN
- Possible funding opportunities under evaluation
- Advertisement of opportunities within GRUAN
- Enlargement of partnership: welcome but well-focused



Work Plan 2011-2012

Topic 1: Co-location of Observations

Research Question: How far apart can measurement systems be and yet be considered to effectively sample the same atmospheric column? How far apart can sub-sites be and still be considered a single GRUAN site?

Deliverables available by ICM-4:

- a. Toolbox for evaluating co-location issue
- b. Draft of a related manuscript

Team leader: Dian Seidel (Franz Immler)



Work Plan 2011-2012

Topic 2: Management of Change

Research Question: To better manage changes from one instrument type to another and to accurately merge the two data segments to create a homogeneous time series, what co-incident, independent (i.e. redundant) measurements, how much and what kind of associated metadata, and how much overlap between old and new instruments are needed

Deliverables available by ICM-4:

- a. Quantitative assessment (based upon Lindenberg, Tateno, Payerne)
- b. Targeting a manuscript

Team leader: Junhong Wang



Work Plan 2011-2012

Topic 3: Quantifying the Value of Complementary Observations

Research Question: How much is measurement uncertainty reduced by having redundant or complementary measurements of a given variable?

Deliverables available by ICM-4:

- a. Recommendation for an optimal observation strategy related to GRUAN phase 1 and 2 (manuscript)
- b. Recommendations for the equipment to operate/acquire at the GRUAN sites

Team leader: Fabio Madonna



GATNDOR collaborative scheme

- 3-monthly calls continue
- Delivery of the annual workplan
- TT5 (ancillary measures) offer advice and perhaps effort.



Research topics

1. Covariance matrices: necessary/useful for vertically correlated uncertainties when going to a derived product?
2. Use of GRUAN data (as soon as hystorical RS reprocessing will be available)
3. Checking re-analysis using GRUAN data
4. Network design workshop (putting together already existing expertise)

Inputs and volunteers are
always very welcome!