



WMO/IOC/UNEP/ICSU
GLOBAL CLIMATE OBSERVING
SYSTEM (GCOS)

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**6th GRUAN Implementation-
Coordination Meeting (ICM-6)**

Session 2

Greenbelt, USA

10 March – 14 March 2014

GRUAN Work Plan 2013-2014

(Extracted from GCOS-167)

Summary and Purpose of Document

The final session agreed on a specific GRUAN work plan for the forthcoming year based on the preceding discussions. Similar as during the previous meeting, the work plan discussed during ICM-5 is intended to be specific and clear. Major action items have been separated from minor action items, but both categories will be tracked and discussed in the next meeting.

12.1. 2013-14 GRUAN work plan

No	Action	WHO	Deadline
1	Revise IP language to be clearer that we are looking to partner with rather than duplicate work of other experts and that in very many cases we are not the experts. Also that GRUAN sites are owned and operated by third parties and not GRUAN.	WG co-chairs (PT lead)	Mar. 2013
2	Technical documents for GRUAN Lidar stream submitted for review by WG-GRUAN.	TT-AM	Mar. 2013
3	A paper on "Co-location of observations" with an emphasis of how to account for mismatches in quantifying and comparing uncertainties submitted to a peer reviewed journal.	Fasso and GATNDOR.	May 2013
4	Provide a two-page structure outline of the expected format of an omnibus TD for each data stream taking as a starting point the lidar guide (which we may suggest some changes to ...) and publish as a GRUAN report.	WG co-chairs	May 2013
5	Retention of collocated satellite / sonde / NWP data within or linked from the GRUAN data archive to facilitate intercomparisons.	TT-AM	Jun. 2013
6	Develop a calibration/validation concept for the EUMETSAT geostationary MTG series based on GRUAN sites.	TT-AM / WG	Jun. 2013
7	A paper on "Quantifying the value of complementary measurements" submitted to a peer reviewed journal.	Madonna	Jun. 2013
8	Microwave radiometer Technical documents submitted for review by WG-GRUAN. (Two different documents - one for June and one for later).	TT-AM	Jun. 2013
9	FTIR Technical documents submitted for review by WG-GRUAN.	TT-AM	Jun. 2013
10	Formal establishment of Metadata Task Team – list of members provided to Lead Centre.	WG co-chairs	Jun. 2013
11	Send maps of instrument locations, including elevation information to TT sites representatives chairs. Use as a template information on the Lindenberg site which will be	Sites	Jun. 2013
12	Documentation (as brief GRUAN report) that makes clear what additional work is required by sites to join GRUAN.	Bodeker / Lead Centre / TT sites	Jun. 2013

13	Survey sites for ascertaining which of the specific new data streams envisaged in the IP refresh they may have capability to deliver, whether they may consider submitting them, and whether they are interested in participating in their development. Simple table. (To be delivered to WG, LC and other task team chairs by this date).	TT sites	Jun. 2013
14	Temperature scheduling requirements study	Gardiner	June 2013
15	Formally document what generic steps would be required to bring a new production sonde type into GRUAN as a GRUAN report. (Short report, submitted to review)	TT radiosondes / Lead Centre	Jul. 2013
16	Online tools based on the NPROVS system to visualize and monitor GRUAN profiles, collocated satellite, and NWP data (GPROVS).	TT-AM / WG	Aug. 2013
17	A document detailing the operational challenges related to multi-payload soundings submitted either to peer reviewed literature (first choice) or to WG-GRUAN for review as a TD.	TT radiosondes	Oct. 2013
18	GRUAN report synthesizing the four white papers developed through the GRUAN network expansion workshop.	Bodeker + NEW participants and collaborators.	Nov. 2013
19	A short GRUAN report detailing the process implemented to provide feedback of observation minus background fields to the GRUAN Lead Centre.	Tan / LC	Nov. 2013
20	An assessment of the advantages and disadvantages of manual vs. autsonde launches written up and submitted to the peer reviewed literature.	TT radiosondes	Nov. 2013
21	Define a site reports format expectation and roll out to sites for formal annual progress reports (Roll out November 2013, site reports due by end of Jan 2014).	WG / LC / TT sites	Nov. 2013
22	A paper submitted to a peer reviewed journal that provides a more accessible version of the GRUAN network expansion workshop report (e.g. a BAMS article).	Bodeker and workshop participants / contributors.	Dec. 2013
23	Manuscript(s) detailing operational considerations for controlled descents submitted to a journal or detailed in a GRUAN Report.	TT radiosondes	Dec. 2013
24	Revise the RS-92 data stream based upon feedback received - revised version 3 release including qc flags vectors and data in different vectors (good, questionable, missing).	Lead Centre	Dec. 2013
25	TD omnibus of all things RS-92.	Lead Centre	Dec. 2013
26	Technical documentation completed for frostpoint hygrometer measurements.	LC / TT radiosondes	Dec. 2013

27	First report on data usage including items such as publications arising, queries received etc.	Lead Centre	Feb. 2014
28	Paper describing the RS-92 product submitted to journal.	Lead Centre	Feb. 2014
29	Manuscript describing the derivation of uncertainty estimates for GNSS-PW measurements submitted to a peer reviewed journal.	TT GNSS-PW	Mar. 2014
30	Short report for inclusion in ICM-6 proceedings summarizing sites processed to date.	WG co-chairs	Mar. 2014
31	Investigate site-specific "recipes" of GRUAN ancillary and sonde measurements (including uncertainties) for comparison with sounding products, focusing on atmospheric temperature and moisture. Manuscript submitted.	TT-AM	Mar. 2014
32	GRUAN launch activity as agreed between GRUAN participants.	WG co-chairs, Lead Centre, secretariat	May 2014