



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

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**5th GRUAN Implementation-
Coordination Meeting (ICM-5)**

De Bilt, Netherlands
25 February – 1 March 2013

Session 3

Task Team 1 (Radiosonde) progress report 01/2013

(Submitted by Masatomo Fujiwara and Rolf Phillipona)

Summary and Purpose of Document

Progress report from the task team 1 (Radiosonde) covering period from 09/2012 till 01/2013.

Task Team progress report for January 2013 – Radiosonde

SUMMARY

Francis J. Schmidlin retired in October 2012, but agreed to continue to be within the task team. Joseph Facundo retired in January 2013 and was removed from the member list; but, still reachable through Howard Diamond and Belay Demoz. Carl Bower retired in July 2012 and was removed from the member list.

Due dates of some of the tasks have been changed according to the development of the GRUAN Implementation Plan 2013-2017.

Between September 2012 and January 2013, we had some progress. See below for the details.

Here is the current member list:

Name	Affiliation	Status
Masatomo Fujiwara	Faculty of Environmental Earth Science, Hokkaido University, Japan	co-chair, member of WG-ARO
Rolf Phillipona	MeteoSuisse, Switzerland	co-chair
Ruud Dirksen	GRUAN Lead Centre, DWD, Germany	
Frank Schmidlin	USA	
Alexander Kats	Central Aerological Observatory/KOMET, Russia	
Hannu Jauhiainen	The Association of Hydro-Meteorological Equipment Industry, Finland	HMEI representative
Michael Hicks	Howard University, USA	
Larry Miloshevich	MILO-Scientific, USA	
Rigel Kivi	Finnish Meteorological Institute, Finland	
Nobuhiko Kizu	Japan Meteorological Agency, Japan	
LI Wei	China Meteorological Administration, China	

PROGRESS ON TASKS REPORTED ON THE PREVIOUS REPORT

Task: *Review of the WMO Intercomparison report*

Main Contact: *Miloshevich and Philipona*

Due Date: *2012* **Status:** *finished*

Milestone: *Lessons from the WMO report are summarized, and review is made from the GRUAN viewpoints. Will be a GRUAN report.*

Progress: *Published as a GRUAN Report #2.*

Issues: *None*

Task: *RS92 pre-launch procedure (TD5)*

Main Contact: *Dirksen, Miloshevich, Fujiwara*

Due Date: *August 2012 (originally)* **Status:** *Ongoing*

Milestone: *Review of the pre-launch ground-check/ground-calibration procedures*

Progress: *A questionnaire sheet was sent to the relevant GRUAN sites in August 2012*

Issues: *There is a preliminary version of TD5 whose missing perspective is to consider the current practice at the relevant GRUAN sites. The questionnaire is for this purpose. Expected to be completed by December 2012. Need some more time.*

Task: *Time-lag correction issues (including intercomparisons) for RS92 RH measurements*

Main Contact: *LC (Dirksen, Sommer), Miloshevich, Kats, Fujiwara*

Due Date: *A paper submitted to a journal by August 2013* **Status:** *Started*

Milestone: *Various time-lag correction schemes will be compared to create the best correction scheme for GRUAN*

Progress: *Test calculations were made by Larry Miloshevich.*

Issues: *Waiting for the GRUAN Lead Centre for further actions.*

Task: *Multi sounding configuration*

Main Contact: *Jauhiainen*

Due Date: *drafted by August 2013* **Status:** *Ongoing*

Milestone: *Recommendation for the multi sounding configuration is made for GRUAN*

Progress: *A questionnaire sheet was sent (and re-sent) to several groups, and some responses have been received*

Issues: *Need some more time to receive more responses*

Task: *Use of descent data and control descent*

Main Contact: *Philipona, Hurst et al.*

Due Date: *Presentation and discussion at ICM-5 (Manuscript by December 2013)*

Status: *Ongoing*

Milestone: *The use of descent data and controlled descent for GRUAN sounding is discussed in a document*

Progress: *Regular descent sounding is made at Boulder and Lauder. Some experiments were made at Lindenberg, Payerne, NCAR (and under a tropical project named SOWER).*

Issues: *Still in the experimental phase.*

Task: *RS92 auto-launcher influence*

Main Contact: *Kivi, Madonna, Kizu*

Due Date: *A journal paper submitted by August 2013* **Status:** *Ongoing*

Milestone: *Influence/effects of using the auto-launcher system is documented*

Progress: *Information has been summarized at Sodankyla (Kivi), Potenza (Madonna), and Tateno (Kizu)*

Issues: *None*

Task: *Chilled-mirror hygrometer data product document*

Main Contact: *LC (Voemel), Hurst, Philipona, Fujiwara*

Due Date: *TD by March 2014* **Status:** *Ongoing*

Milestone: *A GRUAN Technical Document is prepared (for CFH, NOAA-FPH, and Snow White), which include the information on the uncertainty estimation method*

Progress: *Works are being made by each group*

Issues: *None*