



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

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**4rd GRUAN Implementation-
Coordination Meeting (ICM-4)**

Session 2

Tokyo, Japan

5 March – 9 March 2012

Task Team 2 (GNSS-PW) progress report 01/2012

(Submitted by June Wang and Kalev Rannat)

Summary and Purpose of Document

Progress report from the task team 2 (GNSS-PW) covering period from 09/2011 till 01/2012.

Task Team progress report for January 2012 – GNSS-PW TT

SUMMARY

Besides working on the tasks listed below, the GNSS-PW TT has also been involved in the following activities:

1. Gfg2 workshop, Oslo (Oct. 12-13) on GNSS applications for Global Environmental Earth Observation to represent GCOS. Kalev Rannat participated with a presentation (“GCOS + GRUAN”).
2. The TT helped the Lauder observatory to set-up their GPS receiver and provided advices on surface met sensors.
3. John Braun, Galina Dick, Seth Gutman and June Wang from our TT all joined the IGS Troposphere Working Group. We hope to make connections with IGS through this working group.
4. The TT is discussing the connections between Global Geodetic Observing System (GGOS) Core Network Sites and GRUAN. A few of us felt that it is a good idea to establish such connections. We will discuss this at next Conference call (Feb. 2012).
5. The new GRUAN GNSS installation at Sodankylä is finished, initially tested, but has still problems with data flow. Therefore it is still not in routine service. The problems should get overcome for spring, 2012.
6. The local experiments at Sodankylä (according to the tasks #5-6 from previous plans and report) are put on hold until the problems with data flow get finally resolved.

PROGRESS ON TASKS REPORTED ON THE PREVIOUS REPORT

Task#1: To define GRUAN requirements

Main Contact: *Gunnar Elgered/JuneWang* **Due Date:** *8/31/2011* **Status:** *finished.*

Milestone: *A document*

Progress: A document was produced to summarize the requirements and how they were derived.

Issues: *none*

Task#2: To document and review current status of GNSS apparatus and setup at the sites

Main Contact: *Kalev Rannat* **Due Date:** *12/31/2011* **Status:** *finished.*

Milestone: *A table (excel file)*

Progress: The file was last updated in January, 2012. The altitude of GPS sites and RADOME usage are clarified. The table should coincide with requirements in the guidelines. The table will be sent to LC

Issues: The TT keeps hands on the updates as the status and set-ups of stations changes when it is still active and then the LC afterwards. Some data about the antenna height from MSL is still missing.

Task#3: To prepare “GRUAN GNSS Site Guidelines”

Main Contact: *June Wang* **Due Date:** *12/31/2011* **Status:** *Almost finished.*

Milestone: *A GRUAN TD*

Progress: *The first version of “GRUAN Ground-based GNSS Site Guidelines” was completed, reviewed by three WG members and revised based on the reviewers’ comments. The TT is waiting for the reviews of the revised version. The guidelines have been sent to Lauder for their new site set-up.*

Issues: The LC with the help from the TT should maintain it. The site log defined here should be separated from the table in #2 but be consistent. Could LC make this consistency check automatic?

New tasks and progress to date

Task#4: To work on Tasks #4-7 listed in ToR

Main Contact: *JuneWang/Kalev Rannat* **Due Date:** *12/31/2012* **Status:** *started.*

Milestone: Each task will produce a document.

Progress: A plan for working on Task #4-7 was finalized including assigning subtask teams to each task and discussions on each task (available upon request). The subtask teams started to work on it. The progresses will be updated at ICM4.

Issues: *Some of these tasks are huge undertakes. Any assistance (both man power and resources) are needed to accomplish them.*