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

Doc. 2.04
(17.II.2015)

7th GRUAN Implementation-Coordination Meeting (ICM-7)
Matera, Italy
23 February – 27 February 2015

Session 2

Task Team progress report for February 2015 – GNSS-PW

(Submitted by June Wang and Kalev Rannat)

Summary and Purpose of Document

Progress report from the task team GNSS-PW.

Task Team progress report for February 2015 – GNSS-PW

SUMMARY

The TT has worked on topics listed on the GRUAN Master Action Item list:

a) Manuscript describing the derivation of uncertainty estimates for GNSS-PW measurements submitted to a peer reviewed journal. In progress. A draft was done in 2014. Funding was secured to complete this in 2015. The deadline for submission is September 1, 2015.
b) Develop a GRUAN GNSS-PW product. Technical documentation completed for GNSS-PW measurements (GNSS-PW Guide).

Parallel work is going on with:

- Completing a set of GRUAN technical documents describing all aspects of GNSS-PW data flow: Sent all documents to Emma Scarlet in September, 2014, and it will be done soon.
- Assessment of data usage, issues and potential improvements for this data stream (GNSS TT 1. Sept. 2016).
- Close collaborations with GNSS4SWEC Climate working group.

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

1. GNSS data flow and processing: The work is in progress, new connections to Lauder and Sodankyla. A lot of technical help was offered by GFZ (Markus). Additional/continuous work needed for supporting met-RINEX data flow and connecting more GNSS-data streams to LC and GFZ. After the data can be regularly obtained from the sites, the next step will be specifying the needs for related metadata and how to develop a software tool for GNSS-data (like Radiosonde client).
2. Kalev & Galina processed Lauder GNSS-data for ZTD and IPW, comparing with radiosonde.
3. New ToR for GNSS-PW TT was finalized and posted on GRUAN web site.