



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

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**14th GRUAN Implementation-  
Coordination Meeting (ICM-14)**

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Session 7

La Réunion

28 November – 2 December 2022

## Task Team Progress Report for November 2022 – GNSS-PW

*(Submitted by Jonathan Jones and Kalev Rannat)*

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### **Summary and Purpose of this Document**

Progress report from the task team on GNSS Precipitable Water (GNSS-PW).

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## TT composition

No changes in membership of the TT.

## Summary

The GNSS TT has worked on topics listed on the GRUAN Master Action Item list re-scheduled after ICM-13.

## Action items re-scheduled

### Task C9

**C9:** GNSS GDP format

**Description:** GFZ to progress provision of a netCDF format version of the GNSS GDP

**Status:** in progress (mostly completed)

### Task C10

**C10:** Metrological closure of GNSS-IWV and radiosondes

**Description:** For GRUAN sites that perform both GNSS-IWV measurements and radiosoundings, Analyse the comparison of the GRUAN data products (and their respective uncertainties) for these data streams to establish whether metrological closure is attained.

**Status:** in progress

# GRUAN GNSS data processing (as in November 2022)

## Stations in routine processing

cbw1	(Cabauw)
ena0	(ENAO, Graciosa)
hubc	(Beltsville)
ldb2 + lin0	(Lindenberg)
ldrz	(Lauder)
nya2	(NyAlesund)
paye	(Payerne)
sctb	(Scott Base)
sgpo	(SGPO, Billings)
sms1	(Singapore) GNSS receiver has been renamed starting from July 19, 2022 old name mss1
soda + sodf	(Sodankyla)
tskb	(Tsukuba, for Taten0)
utqi	(Barrow)

## Stations on the waiting list

Tenerife (TEN)	Markus Ramatschi (GFZ) is in contact
Xilin Hot (XIL)	no contact
Paramaribo (PMO)	Harald Schuh (GFZ) visited PMO in January, continuing to communicate and planning to set up GNSS there
Dakar	no contact
Hong Kong (HKO)	Galina Dick (GFZ) in contact with George Liu
Potenza (POT)	some issues with RINEX data flow
Trappes/Palaiseau (TRP)	no contact
La Reunion (REU)	no contact
Australia	no data
Dolgoprudnyj	no contact