



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

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**12th GRUAN Implementation-
Coordination Meeting (ICM-12)**

Session 1

Virtual

16 - 20 November 2020

Task Team Progress Report for October 2020 – Sites

(Submitted by Dale Hurst and Marion Maturilli)

Summary and Purpose of this Document

Progress report from the task team on Site Intercommunication and Reporting.

Table of Site Representatives (as of September 2020)

Site	Name	
Boulder, USA	Dale Hurst	Co-chair
AWI/ Ny-Ålesund, Norway	Marion Maturilli	Co-chair
Beltsville, USA	Belay B. Demoz	
Cabauw, Netherlands	Arnoud Apituley	
Lauder, New Zealand	Richard Querel	
Sodankylä, Finland	Rigel Kivi	
Potenza, Italy	Fabio Madonna	
Payerne, Switzerland	Giovanni Martucci	
Tateno, Japan	Junji HISAMITSU	replaced Osamu Narita
Syowa, Japan	Yoshinobu Tanaka	
Minamitorishima, Japan	Junji HISAMITSU	replaced Kenji Suzuki
ARM Sites, USA	Evan Keeler	replaced Nicki Hickmon
Xilinhote, China	Rongkang Yang	
Lindenberg, Germany	Ruud Dirksen	
Australian sites	Matt Tully	
Réunion Island, France	Stephanie Evan	
Singapore	Shwei Lin Wong	
Dolgoprudny, Russia	Nadeschda Krestyanikova	
Trappes Palaiseau, France	Jean-Charles Dupont	
Tenerife, Spain	Miguel Hernández Martínez de la Peña	
Neumayer, Antarctica (DE)	Holger Schmithüsen	new site
Ross Island, Antarctica (NZ, US)	Richard Querel	new site
HongKong, China	David Lam	new site
Dakar, Senegal	Seydi Ababacar Ndiaye	new site

Action Items from ICM-11

(A2) Parallel soundings database augmentation with satellite/ancillary

Augment parallel soundings of RS92-RS41 with satellite co-locations and ancillary measurements (CFH, FPH, lidar, MWR, satellites, cloud observations (incl. BSRN) within +/-2 hours).

Who? TT Ancillary measurements; TT Sites; WG Chair; Lead

Status: Ongoing

Data submissions received and integrated. D. Smyth collating all comments received

(C2) Sites photos

Sites to upload first set of photos commensurate with the new site photos TN. Lead Centre to work with sites through their PRs to share these with the OSCAR Surface database.

Who? TT Sites; Lead Centre; GCOS Secretariat

Status: Ongoing

Some site photos shared with OSCAR Surface database. TN-9 (photo documentation guidelines) sent to site representatives. To date, only 7 sites have completed this task.

(C4) Usage of GRUAN data

Further develop ideas around the appropriate usage and citation metrics of GRUAN data including appropriate acknowledgment to sites. Instigate measures as possible and further update progress at ICM-12.

Who? WG, TT sites

Status: Ongoing

D. Smyth investigating the use of dois with plans to research M. Maturillis ideas about a doi for each GRUAN site and the potential use of the PANGAEA database.

(C5) Augment GNSS-IWV data flow

GNSS-IWV Data flow to be set up for additional sites prior to ICM-12. Progress to be made in installing hardware at additional sites and starting data flow.

Who? GFZ, TT sites members, TT GNSS-IWV

Status: Ongoing

Significant progress has been made, but TT Sites lacks quantitative information about the degree of success.

(C6) Survey of site approaches vis-à-vis variety of radiosonde issues

Sites to be surveyed for current approaches / issues identified as of import at ICM-11: 1. How cloud observations are made and reported in RsLaunchclient 2. Current strategies on ensuring burst height attainment 3. Helium / hydrogen issues and strategies

Who? TT Sites, WG, LC

Status: Complete

Survey sent to every site in September 2019. Total of 16 site representatives responded. Results to be summarized and discussed at ICM-12.

(C7) Data Policy

Progress to finalization of an explicit strategy regarding which data can be released to whom and get signed off by sites and WG.

Who? LC, TT Sites, WG

Status: Ongoing

Draft proposal written by LC, reviewed by WG and TT Site co-chairs. Needs to be finalized then approved by sites. TN-10 being written to describe the policy in detail.

(C8 Further generalisation of overpass information

Further augment the current golden overpass emails so they show in addition non-EUMETSAT polar orbiter overpasses information to enable sites to also be able to target these overpass times should they wish to do so.

Who? TT-AM; T. Reale; Lead Centre; TT Sites; A. von Engel, L. Borg

Status: Complete

Sites surveyed about their satellites of interest. Many satellites were added to the weekly overpass prediction emails.

(C18) Generalise parallel soundings database

Lead Centre to make all parallel soundings (all pairs or sets either model1-model2 or model1-model1) in the archive explicitly available via the parallel soundings archive facility to increase accessibility and usability. Parallel soundings archive to be made more externally accessible. TT sites to ensure all sites have uploaded all parallel measurements (not just RS92/41 pairs).

Who? Lead Centre, TT sites

Status: Ongoing

Comparison database at: <https://www.gruan.org/data/measurements/comparisons/>

D. Smyth to create a survey to garner the details of and the scientific rationale behind parallel soundings, e.g., types of parallel soundings (X-X vs X-Y)