

ICM-9 Actions status

Peter Thorne

Summary

- We had 25 agreed actions from last ICM. Of these ...
 - 6 are completed
 - 16 are in progress
 - 3 remain unaddressed
- We had 4 high priority items (1, 3)
- We had 8 actions related specifically to the RS92-RS41 transition (3, 5)
- We had 13 remaining actions (2, 8, 3)

On a note of process for actions that involve multiple actors only the primary seems to be taking responsibility. All entities should feel ownership though?

High priority actions

First draft version of RS41

Lead Centre to provide a first cut of the RS41 GDP by no later than ICM-10.

Lead Centre, TT Radiosondes.
Due April 2018

Talk in Session 5, Tuesday a.m.

Qualify new data streams

Qualify currently available candidate data streams available via the Lead Centre (Meisei and **SRS**) according to the guidance in GRUAN-TN4.

WG-GRUAN, Lead Centre, TT sites, TT radiosonde
April 2018

Talk in Session 5, Tuesday a.m.

Autosondes

An assessment of the advantages and disadvantages of manual vs. autosonde launches written up and submitted to the peer reviewed literature.

TT Radiosondes and Lead Centre

August 2018 to define small set of well posed questions to be addressed.

Anticipated December 2018 to submit manuscript

Radiosonde documentation

Develop first draft of GRUAN radiosonde generic technical document omnibus. Available for review.

LC, TT radiosondes, non-instrument experts, WMO ET (to review)
January 2018.

v 0.2 11 Jan 2018. Tom Gardiner has latest draft

Talk in Session 4, Monday p.m.

RS92 to RS41 transition actions

Update on RS92-RS41 transition: Session 5, Tuesday p.m.

Community approach paper

Paper describing the GRUAN change management replacement strategy submitted to peer-reviewed journal (GI) to increase visibility of effort and get broad community buy-in.

Lead Centre, TT Radiosondes, WG-GRUAN
July 2017

Advanced draft with Lead Author Ruud for completion

Parallel soundings database augmentation with satellite/ancillary

Lead Centre to 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).

Lead Centre, TT Ancillary measurements, TT Sites.

Oct 2017 (satellites plus Lindenberg)

Apr 2018 (all sites)

Talk in Session 6, Tuesday p.m.

Darwin dual launches

Lead Centre and Greg Bodeker to continue to work with BoM to instigate an intercomparison campaign for RS-92-RS41 transition at the tropical Darwin site.

LC, BoM, Greg Bodeker
December 2017

Discussions still in progress pending reorganisation of BoMs upper-air sounding program

UKMO/BAS ascents inclusion

Arrange for the inclusion of Met Office and BAS parallel soundings data in the RS92-RS41 transition. Particular interest in St. Helena given paucity of tropical locations.

Lead Centre, Tim Oakley
April 2018

GUAN/GRUAN coordination

WG-GRUAN, Lead Centre and GCOS secretariat to draft letter to send to countries hosting GUAN sites that run/ran RS92 to survey plans and advocate to undertake some degree of parallel measurements and submit to GRUAN Lead Centre collection.

WG Chairs, GCOS secretariat, Lead Centre
Letter sent 4 October 2017

Decision from secretariat pending

Scheduling by conditions

Lead Centre, based upon results to date, to advise sites on whether particular conditions are most uncertain and therefore when (under what conditions) launches of dual configurations may derive most value.

Talk in Session 6, Tuesday p.m.

Updated analysis of dual launch holdings

Several techniques to be pursued (including use of satellites, NWP, ancillary) to analyse the effects of the transition both on manufacturer processed and GRUAN processed (when available for RS41) data products arising from dual flights.

Science Coordinators (or TT on RS92/41 transition analysis), Lead Centre, TT Radiosondes, TT Ancillary measurements

April 2018

Capability to create RS92v2 GDP from MW41

Given agreed priority of RS41 GDP over RS92 version 3 product generation, develop short-term 'fix' to enable version 2 processing to be applied to RS92 soundings lodged using the MW41 ground equipment.

Lead Centre

October 2017

Remaining actions

Sites photos

Technical note on guidance on site survey photos and upload instructions. Current site photo surveys to be uploaded to appropriate area of website. Lead Centre to instigate mechanism to remind sites to submit new photos.

Lead Centre, TT Sites
April 2018

New modem product

Develop GRUAN data product and processing stream for Modem radiosondes. First draft of technical document describing processing streams for all Modem radiosondes. Initial data stream available for evaluation by Lead Centre.

CNRS, Lead Centre, TT Radiosondes
April 2018

Talk in Session 5, Tuesday a.m.

Lidar

Take necessary steps to be in a position to qualify the Lidar GDP starting after ICM-10. Remaining steps are finalisation and review of Technical Document and provision of a beta test data stream to Lead Centre.

TT Ancillary measurements
April 2018

Talk in Session 5, Tuesday a.m.

GNSS-PW

Take necessary steps to be in a position to qualify the GNSS-PW GDP starting after ICM-10. Remaining steps are finalisation and review of Technical Document and provision of a beta test data stream to Lead Centre.

TT GNSS-PW

April 2018

Talk in Session 5, Monday p.m.

Ozonesondes

Take necessary steps to be in a position to qualify the Ozonesonde GDP starting after ICM-10. Remaining steps are review of Technical Document (TD7), peer reviewed description of product and provision of a beta test data stream to Lead Centre.

Greg Bodeker, Jacquie Witte, Lead Centre
April 2018

Talk in Session 5, Tuesday a.m.

Failsafe back-up

Lead Centre and Bodeker Scientific to instigate failsafe backup of the raw data that is offsite of Lindenberg.

Lead Centre and Greg Bodeker
October 2017

An alternative solution needs to be considered

Golden overpass

Lead Centre to create a filter that spits out to each site a list of the likely overpass coincident times within a defined radius based upon the EUMETSAT occultation forecast product. Emailed weekly.

Lead Centre and TT Sites

August 2017

CFH roadmap

Prepare a strategy document (2-sides max) to address the remaining steps required for instigation of a frostpoint hygrometers GDP for presentation and discussion at ICM-10.

Lead Centre, TT Radiosondes, TT Sites
April 2018

Certification and auditing

WG-GRUAN and Lead Centre to ensure certification and auditing of sites on the agreed upon timetables and verify against these targets at ICM-10.

Greg Bodeker, Lead Centre
April 2018

Annually based reporting

Lead Centre to provide automated reports on 2017 performance no later than 20 January of each year. Sites to append site report no later than 15 February to inform ICM-10. WG-GRUAN members to read site reports prior to ICM-10.

TT Sites, Lead Centre, WG-GRUAN

February 2018

Discussion of site reports, Session 6, Wednesday a.m.

Australian sites composition and certification

Greg Bodeker to respond to suggestion to move Alice Springs to Brisbane and to advocate for certification.

Greg Bodeker
August 2017

Letters on behalf of sites

WG-GRUAN chairs to review site reports and initiate letters from appropriate parties accordingly. TT Sites to be tasked with raising such requests intersessionally rather than solely at ICMs.

WG Chairs, TT Sites

Site reports talk in Session 7, Wednesday a.m.

Update on radiation chamber results

Lead Centre staff to consider the various feedback and suggestions received on the issues raised at ICM-9 on the radiation chamber results. To the extent resources, technical and practical considerations permit, perform further experimentation and report a substantive update at ICM-10.

Lead Centre
April 2018

Talk in Session 6, Tuesday p.m.