



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

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**11th GRUAN Implementation-
Coordination Meeting (ICM-11)**

Session 7

Singapore

20 - 24 May 2019

GRUAN Site Report for Melbourne

(Submitted by Matt Tully)

Summary and Purpose of this Document

Report from the GRUAN site Melbourne for the period January to December 2018.

Overview

Regular twice-daily radiosonde launches are flown at Melbourne Airport and weekly ozonesonde launches at Broadmeadows.

Daily Total Column Ozone measurements are made at Melbourne Airport.

Change and change management

Melbourne Airport transitioned from Vaisala RS92 to RS41 radiosondes on 1 April 2018. Broadmeadows ozonesonde flights gradually transitioned in late 2018 and early 2019. A small number of dual ozone interface flights (RSA921 and RSA411) were flown for comparison.

Resourcing

NIL at present.

Operations

No operational issues are currently identified.

The RsLaunchClient is not yet being used.

Site assessment and certification

Not yet certified.

GRUAN-related research

NIL. (Results from the dual ozone flights will be presented at ICM-11).

WG-GRUAN interface

A letter of support was sent to the Australian PR which is now being responded to.

Items for ICM-11 plenary discussions

Use of the RsLaunchClient presents difficulties because of IT security issues is there any possibility of an alternative method?

Other archiving centres

NDACC, WOUDC (ozonesonde and Dobson)

Participation in campaigns

As above, a small number of dual RS92/RS41 ozone flights were flown at Broadmeadows, which will be presented at ICM-11.

Future plans

It is expected that an automated balloon launcher will be installed at Melbourne Airport in the next five years but no change is expected at Broadmeadows.



GRUAN Site Report for Melbourne (MEL), 2018

Reported time range is Jan 2018 to Dec 2018

Created by the Lead Centre

Version from 2019-05-09

1 General GRUAN site information

Object	Value
Station name	Melbourne
Unique GRUAN ID	MEL
Geographical position	-37.6655 °S, 144.8321 °E, 113.4 m
Operated by	BOM Australian Bureau of Meteorology
Main contact	Tully, Matthew
WMO no./name	94866 MELBOURNE AIRPORT
Operators	currently 0, changes +0 / -0
Sounding Site	2

1.1 General information about GRUAN measurement systems

System	Name	Type	Setups	Measurements
MEL-RS-01	Melbourne Airport radiosonde launch site	Sounding Site	1	0
MEL-RS-02	Broadmeadows radiosonde launch site	Sounding Site	1	0

1.2 General comments from Lead Centre

1.2.1 General

No dataflow to GRUAN LC so far.

2 System: Melbourne Airport radiosonde launch site (MEL-RS-01)

Object	Value
System name	Melbourne Airport radiosonde launch site
Unique GRUAN ID	MEL-RS-01
System type	Sounding Site (RS - Radiosonde)
Geographical position	-37.6655 °S, 144.8321 °E, 113.4 m
Operated by	BOM Australian Bureau of Meteorology
Instrument contact	Tully, Matthew
Started at	-
Defined setups	1 (ROUTINE)
Possible streams	RS92

2.1 Lead Centre comments

2.1.1 Dataflow

No radiosonde dataflow to GRUAN LC as yet.

3 System: Broadmeadows radiosonde launch site (MEL-RS-02)

Object	Value
System name	Broadmeadows radiosonde launch site
Unique GRUAN ID	MEL-RS-02
System type	Sounding Site (RS - Radiosonde)
Geographical position	-37.6914 °S, 144.9589 °E, 110.0 m
Operated by	BOM Australian Bureau of Meteorology
Instrument contact	Tully, Matthew
Started at	-
Defined setups	1 (OZONE)
Possible streams	RS92

3.1 Lead Centre comments

3.1.1 Dataflow

No radiosonde dataflow to GRUAN LC as yet.