

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

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13th GRUAN Implementation-**Coordination Meeting (ICM-13)** Virtual 15 November - 19 November 2021 Session 1

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 2020.

Overview

Regular twice-daily radiosonde launches are flown at Melbourne Airport (11Z and 23Z) and weekly ozonesonde launches at nearby Broadmeadows (1200 gram balloon). Daily Total Column Ozone measurements are made at Melbourne Airport (Dobson) and Broadmeadows (Brewer).

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. Results were reported at ICM-11.

Resourcing

NIL

Operations

No operational issues are currently identified. The RsLaunchClient is not yet being used.

Covid-19

No impact (apart from one ozonesonde launch being missed in March 2020 due to lockdown).

Site assessment and certification

Not yet certified.

GRUAN-related research

NIL

WG-GRUAN interface

NIL

Other archiving centres

Not a GUAN site. WOUDC (Ozone profiles and Total Ozone), NDACC (Ozone profiles and Total Ozone, Spectral UV, MAX-DOAS).

Participation in campaigns

NIL

Future plans

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



GRUAN Site Report for Melbourne (MEL), 2020

Reported time range is Jan 2020 to Dec 2020 Created by the Lead Centre Version from 2021-04-27

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	Туре	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 has been established yet.

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

2.1 Lead Centre comments

2.1.1 Dataflow

No dataflow of radiosonde measurements to LC has been established yet.

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

3.1 Lead Centre comments

3.1.1 Dataflow

No dataflow of radiosonde measurements to LC has been established yet.