



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

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**13th GRUAN Implementation-
Coordination Meeting (ICM-13)**

Session 1

Virtual

15 November - 19 November 2021

GRUAN Site Report for Macquarie Island

(Submitted by Matt Tully)

Summary and Purpose of this Document

Report from the GRUAN site Macquarie Island for the period January to December 2020.

Overview

Regular twice-daily radiosonde launches (11Z and 23Z) are currently performed at Macquarie Island incorporating a weekly ozonesonde flight (1200 gram balloon). Daily Total Column Ozone measurements are also made. (Dobson and Brewer).

Change and change management

The transition from Vaisala RS92 to RS41 was made in October 2019. A small number of dual RS92/RS41 ozonesonde flights were flown at Broadmeadows to compare the new ozone interface (results reported at ICM-11).

Resourcing

NIL

Operations

No operational issues are currently identified.

The RsLaunchClient is not yet being used. Raw data has been submitted to the GRUAN Lead Centre.

Covid-19

No impact.

Site assessment and certification

Not yet certified.

GRUAN-related research

NIL

WG-GRUAN interface

NIL

Other archiving centres

GUAN, WOUDC (ozone profiles and total ozone), NDACC (ozone profiles and total ozone)

Participation in campaigns

NIL

Future plans

The planned re-building of the station facilities is now uncertain although some refurbishment is likely.



GRUAN Site Report for Macquarie Island (MAQ), 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	Macquarie Island
Unique GRUAN ID	MAQ
Geographical position	-54.4994 °S, 158.9369 °E, 6.0 m
Operated by	BOM Australian Bureau of Meteorology
Main contact	Tully, Matthew
WMO no./name	94998 MACQUARIE ISLAND
Operators	currently 0, changes +0 / -0
Sounding Site	1

1.1 General information about GRUAN measurement systems

System	Name	Type	Setups	Measurements
MAQ-RS-01	Macquarie Island radiosonde launch site	Sounding Site	2	0

1.2 General comments from Lead Centre

1.2.1 General

No dataflow to GRUAN LC has been established yet.

Older radiosonde data files are already stored at GRUAN LC.

2 System: Macquarie Island radiosonde launch site (MAQ-RS-01)

Object	Value
System name	Macquarie Island radiosonde launch site
Unique GRUAN ID	MAQ-RS-01
System type	Sounding Site (RS - Radiosonde)
Geographical position	-54.4994 °S, 158.9369 °E, 6.0 m
Operated by	BOM Australian Bureau of Meteorology
Instrument contact	Tully, Matthew
Started at	-
Defined setups	2 (ROUTINE, OZONE)
Possible streams	RS92

2.1 Lead Centre comments

2.1.1 Dataflow

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

Vaisala RS92 raw data files of routine flights from 2012 to 2017 are stored at GRUAN LC. These data will be imported to GRUAN archive in 2021.