



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

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**15th GRUAN Implementation-  
Coordination Meeting (ICM-15)**

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Session 5

Bern

11 March - 15 March 2024

## GRUAN Site Report for Davis

*(Submitted by Andrew Winchester)*

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### **Summary and Purpose of this Document**

Report from the GRUAN site Davis for the period January 2022 to December 2023.

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## **Overview**

Davis is currently performing 2 soundings a day at 23Z and 11Z, however due to internal security issues we are unable to provide the required data to GRUAN.

## **Change and change management**

Vaisala RS41-SG radiosondes have been in use since 2019 with no foreseeable change, however we are likely to move to the RS41-SGE (biosonde) by the beginning of 2025. No resourcing or equipment changes planned.

## **Resourcing**

Currently funded to release 2 radiosondes a day, with 2-3 staff on site all year round.

## **Operations**

The 23Z uses 800g balloons and consistently reaches 10 hPa, more often 5 hPa or better. The 11Z flights use 500g balloons and reach heights 10-20hpa in summer, but reduces significantly to 20-60 hPa. The Bureau is unlikely to perform frostpoint hygrometer soundings in the short term due to funding. At this stage we are not using RsLaunchClient due to internal security restrictions.

## **Covid-19**

NIL impact

## **Site assessment and certification**

NA

## **GRUAN-related research**

NIL

## **WG-GRUAN interface**

NIL. I have forwarded requests to management to properly support the GRUAN network however at this stage we do not have the ability to submit data that meets GRUAN requirements.

## **Other archiving centres**

GUAN

## **Participation in campaigns**

NIL

## **Future plans**

Automation of the balloon launches using AS41



# GRUAN Site Report for Davis (DVS), 2022

Reported time range is Jan 2022 to Dec 2022

Created by the Lead Centre

Version from 2024-03-01

## 1 General GRUAN site information

Object	Value
Station name	Davis
Unique GRUAN ID	DVS
Geographical position	-68.5744 °S, 77.9672 °E, 18.0 m
Operated by	BOM   Australian Bureau of Meteorology
Main contact	Winchester, Andrew
WMO no./name	89571 DAVIS
Operators	currently 0, changes +0 / -0
Sounding Site	1

### 1.1 General information about GRUAN measurement systems

System	Name	Type	Setups	Measurements
DVS-RS-01	Davis radiosonde launch site	Sounding Site	2	0

### 1.2 General comments from Lead Centre

#### 1.2.1 General

No operational data stream has been established yet.

#### 1.2.2 Request

In view of the prolonged absence of data submission to the Lead Centre, the site is encouraged to take the necessary steps to establish an operational data flow. In this regard, establishing a data stream for the radiosoundings has priority, followed by data submission of GNSS water vapor measurements.

## 2 System: Davis radiosonde launch site (DVS-RS-01)

<b>Object</b>	<b>Value</b>
System name	Davis radiosonde launch site
Unique GRUAN ID	DVS-RS-01
System type	Sounding Site (RS - Radiosonde)
Geographical position	-68.5744 °S, 77.9672 °E, 18.0 m
Operated by	BOM   Australian Bureau of Meteorology
Instrument contact	Winchester, Andrew
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.



# GRUAN Site Report for Davis (DVS), 2023

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