



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

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**7th GRUAN Implementation-  
Coordination Meeting (ICM-7)**  
Matera, Italy  
23 February – 27 February 2015

Session 8

## GRUAN Station Report for Darwin

*(Submitted by Lead Centre)*

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

Report from the GRUAN station Darwin for the period Nov 2013 to Oct 2014.

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# GRUAN Station Report for Darwin (DAR), 2014

Reported time range is Nov 2013 to Oct 2014

Created by the Lead Centre

Version from 2015-02-11

## 1 General GRUAN station information

Info	Value
Station name	Darwin
Unique GRUAN ID	DAR
Geographical position	-12.4300 °S, 130.8900 °E, 30.0 m
Operated by	ARM   US DOE Atmospheric Radiation Measurement (ARM) Program
Main contact	Sisterson, Doug
WMO no./name	94120 DARWIN
Operators	current 0, change +0 / -0
Sounding Site	1
GNSS	1

### 1.1 General information about GRUAN measurement systems

System	Type	Setups	Measurements	As scheduled
DAR-GN-01	GNSS	0	0	not scheduled
DAR-RS-01	Sounding Site	1	0	0.00 %

### 1.2 General comments from Lead Centre

#### 1.2.1 General

ARM site.

ARM is requested to enable the transfer of the raw data from Darwin to the Lead Centre.

It is strongly recommended that the site uses a manufacturer independent ground check for the Vaisala radiosonde.

This site won't be operated by ARM from 2015 onwards.

#### 1.2.2 GTS

This site regularly sends PTU measurements in the GTS (FM35 in BUFR format, 2 times per day).

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## 2 System: GNSS Site SA39 (DAR-GN-01)

<b>Info</b>	<b>Value</b>
System name	GNSS Site SA39
Unique GRUAN ID	DAR-GN-01
System type	GNSS (GN - GNSS)
Geographical position	-12.4246 °S, 130.8916 °E, 84.9 m
Operated by	ARM   US DOE Atmospheric Radiation Measurement (ARM) Program
Instrument contact	Sisterson, Doug
Started at	-
Defined setups	-
Possible streams	-

### 2.1 Lead Centre comments

#### 2.1.1 Dataflow

No GNSS dataflow to GRUAN LC as yet.

### 3 System: Balloon-Borne Sounding System (SONDE) (DAR-RS-01)

<b>Info</b>	<b>Value</b>
System name	Balloon-Borne Sounding System (SONDE)
Unique GRUAN ID	DAR-RS-01
System type	Sounding Site (RS - Radiosonde)
Geographical position	-12.4200 °S, 130.8800 °E, 30.0 m
Operated by	BOM   Australian Bureau of Meteorology
Instrument contact	Sisterson, Doug
Started at	-
Defined setups	1 (ROUTINE)
Possible streams	RS92

#### 3.1 Lead Centre comments

##### 3.1.1 Dataflow

Dataflow is running completely automated from the ARM Archive to the GRUAN LC. Raw data are not transmitted to the Lead Centre and Vaisala-processed RS92 data from Darwin cannot be processed using GRUAN algorithms and GRUAN quality checks.

Only operational Vaisala processed data are available at the Lead Centre.