

**WORLD METEOROLOGICAL ORGANIZATION**

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**COMMISSION FOR INSTRUMENTS AND  
METHODS OF OBSERVATION**

ITEM: 3

**INTERNATIONAL ORGANIZING COMMITTEE (IOC) FOR THE  
WMO SOLID PRECIPITATION INTERCOMPARISON  
EXPERIMENT (SPICE)  
Fourth Session**

Original: ENGLISH

Davos, Switzerland  
17 – 21 June 2013

## **SITE REPORT FOR GUTHEGA DAM (AUSTRALIA)**

(Submitted by Shane Billish)

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### **Summary and purpose of document**

This document provides site report of Guthega Dam (Australia) for the 2012/2013 winter.

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### **ACTION PROPOSED**

The Meeting is invited to take this information into consideration when deciding on necessary modifications and clarifications on the overall set-up of the experiment and procedures to be followed to ensure best quality observations are collected on all sites and appropriate coordination and data transfer mechanisms are implemented.

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# **WMO SPICE: Site Report**

## **Site: Guthega Dam**

Site manager: Shane Bilish  
June 17, 2013  
IOC-SPICE-4, Davos

### ***Commissioning:***

- Site not yet fully commissioned – now expected to be by mid-July
- Currently operational: Existing precipitation gauges (3x NOAH II), 3 m and 10 m winds, air temp and RH
- R3 gauges have been installed but are not yet operational
- Thies Precipitation Monitor received last week

# Commissioning:



June 17, 2013

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# Site layout

Guthega Dam  
Weather Station configuration for WMO-SPICE



**Asset Detail**

- 113 2000 - 100 10000 10
- 1000 100000 1000
- 1000 100000 1000
- 1000 100000 1000
- 1000 100000 1000
- 1000 100000 1000
- 1000 100000 1000
- 1000 100000 1000

Created on the 12th June 2013, by G5

June 17, 2013

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## ***Configuration of references:***

Reference	Yes/No	Gauge	Notes
R1	No		
R2	No		
R3 (Single Alter)	Yes	Geonor 1000 mm	
R3 (unshielded)	Yes	Geonor 1000 mm	
Snow on Ground	No		

## ***Instruments under test:***

- 3x ETI NOAH II precipitation gauges
  - In DFIR fence
  - In Half DFIR fence
  - Unfenced
  - (All three gauges have Alter shields)
- Context:
  - Our NOAH II network includes 21 gauges in Half DFIR fences and 7 unfenced gauges, many at remote locations
  - (In addition to heated and unheated tipping bucket rain gauges)

# Anderson

## Main Range of the Snowy Mountains



June 17, 2013

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## *Thanks to:*



Australian Government  
Bureau of Meteorology



**snowyhydro** Limited  
renewable energy

June 17, 2013

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