

Astronomy and Astrophysics from Antarctica

(AAA)

Report by John Storey (Chief Officer)

Synopsis

Highlights

- WGA - Site testing
- WGB - Arctic
- WGC - Science goals
- WGD - Major new facilities

Specific actions

- None requested

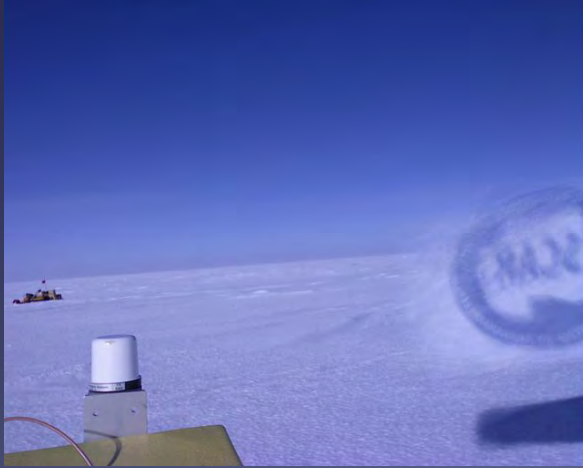
WGA - site testing

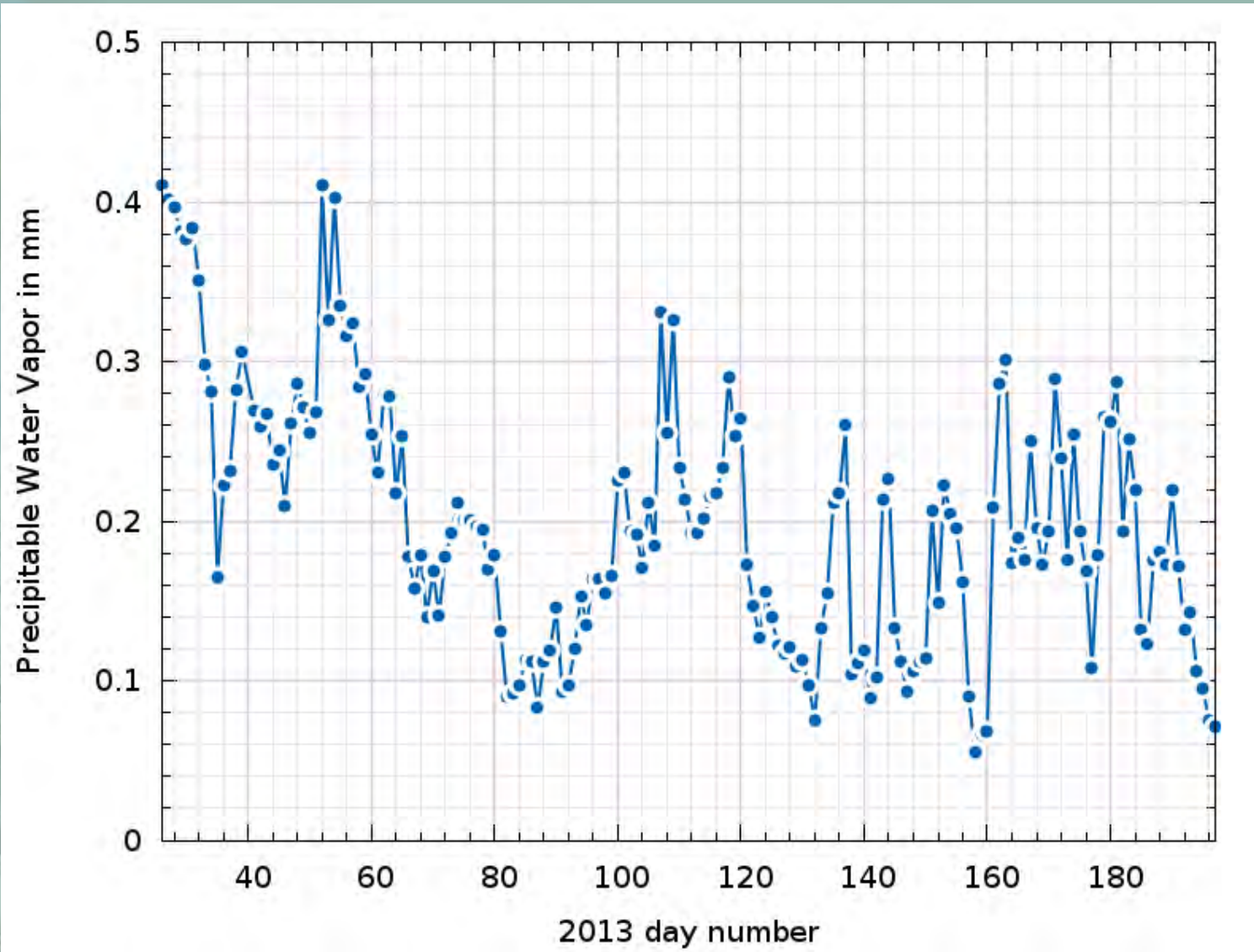
- Active site testing programs at:
 - South Pole
 - Dome A
 - Dome C
 - Dome F
 - Ridge A
- Web-accessible site testing database now live.



Ridge A, January 2013

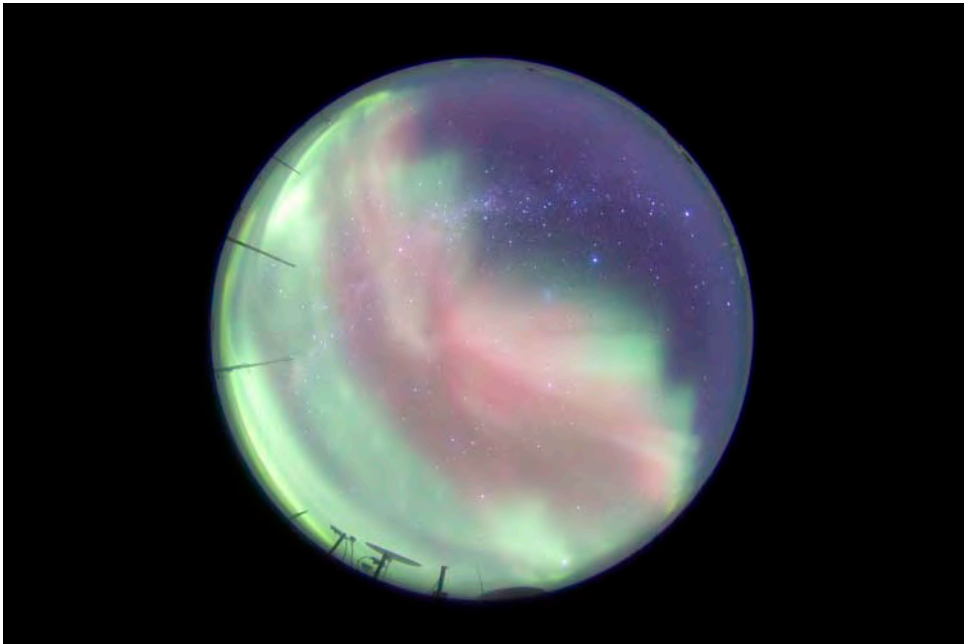
Remote camera on PLATO





Precipitable water vapour at Ridge A, first half of 2013

Dome A



SCAR AAA Site Testing Database

Welcome to the SCAR AAA Site Testing Database. These pages are provided as a resource to enable easy access to all published papers relating to Arctic & Antarctic astronomy site testing. Select the flags you would like to search:

Hemisphere <input type="checkbox"/> Arctic <input checked="" type="checkbox"/> Antarctic	Site <input type="checkbox"/> South Pole <input type="checkbox"/> Dome A <input checked="" type="checkbox"/> Dome C <input type="checkbox"/> Dome F <input type="checkbox"/> Ridge A <input type="checkbox"/> McMurdo / balloons <input type="checkbox"/> Greenland <input type="checkbox"/> Northern Canada <input type="checkbox"/> Other	Wavelength <input type="checkbox"/> Gamma / X-Ray <input type="checkbox"/> UV <input type="checkbox"/> Optical <input type="checkbox"/> Infrared <input type="checkbox"/> THz <input type="checkbox"/> Millimetre / sub-mm <input type="checkbox"/> Particle <input type="checkbox"/> Other	Characteristics <input type="checkbox"/> Meteorological data <input type="checkbox"/> Atmospheric transparency <input type="checkbox"/> Sky brightness and stability <input type="checkbox"/> Seeing and integrated turbulence <input type="checkbox"/> Free atmosphere turbulence profiles <input type="checkbox"/> Boundary layer turbulence <input checked="" type="checkbox"/> Precipitable water vapour <input type="checkbox"/> Aerosols / ice-crystals <input type="checkbox"/> Ozone <input type="checkbox"/> Other
Type <input type="checkbox"/> In situ / ground-based observations <input type="checkbox"/> Satellite observations <input type="checkbox"/> Modelling <input type="checkbox"/> Instrument design <input type="checkbox"/> Review			
Journal type: <input type="text" value="All"/>			
Sort by: <input type="text" value="Year"/>			
<input type="button" value="Submit"/>			

See also:

- [Journal acronyms](#)
- [Statistics & visualisations \(BETA\)](#)
- [Help & FAQs](#)

SCAR AAA Site Testing Database

Your search returned 6 results:

Author	Year	Journal	Title	ADS	DOI	Data
De Gregori, S. et al.	2012	MNRAS	Millimetre and submillimetre atmospheric performance at Dome C combining radiosoundings and ATM synthetic spectra	ADS	DOI	
Faurobert, M. et al.	2012	EAS	Extinction and Sky Brightness at Dome C	ADS	DOI	
Gredel, R.	2010	EAS	Site Characterization at Dome C - The ARENA Work	ADS	DOI	
Saunders, W. et al.	2009	PASP	Where Is the Best Site on Earth? Domes A, B, C, and F, and Ridges A and B	ADS	DOI	
Dempsey, J. T.	2005	PhD	The view from the ice at the bottom of the world: Optical astronomy from Antarctica	ADS		
Valenziano, L. et al.	1999	PASA	Millimetre astronomy from the High Antarctic Plateau: Site testing at Dome C	ADS	DOI	

[SCAR AAA](#) → [Working Group A](#) → [Site testing database](#)

Website by [Geoff Sims](#), University of NSW

Next step is to add links to data and/or to custodians.

WGB - Arctic astronomy

- Active programs now in:
- Greenland (new station?) - site testing; optical telescope.
- Canada (new station?) - site testing; 12 metre radio telescope.

WGC - Science

- First ever IAU symposium on Antarctic astronomy held in Beijing, August 2012.
- Proceedings now published, creating a useful resource both for astronomers and non-astronomers.



WGD - Major new facilities

- Ongoing discussion of possibility of an international, robotic station on the Antarctic plateau.
- Ongoing discussion of proposals to build a 2-metre class infrared telescope at Dome C or Dome A.

Future steps

- Next meeting of AAA is in Siena, Italy, 24 - 26 July 2013.



- Following meeting will be in Auckland, 2014.

Questions?

