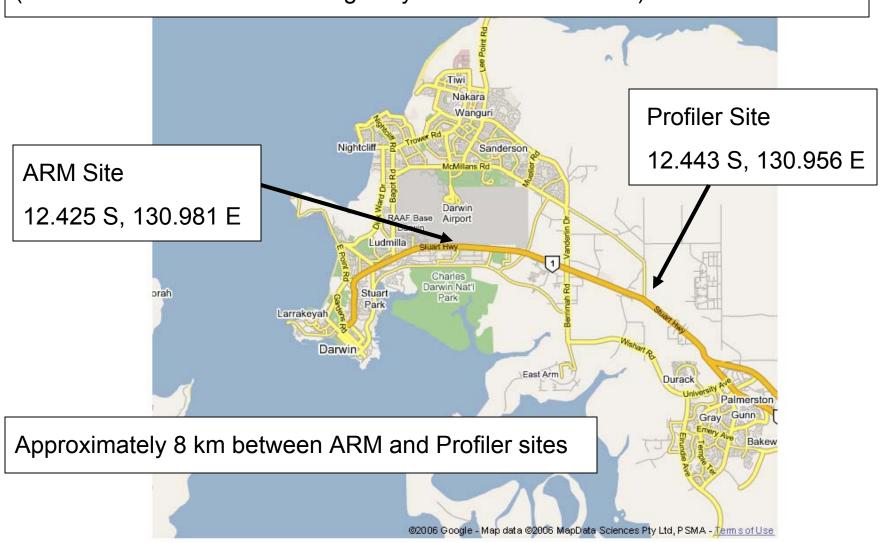


Funding is from the NASA TRMM & GPM Programs through the former NOAA Aeronomy Laboratory and from the Australian Bureau of Meteorology Research Centre (BMRC)



The profiler and surface observations deployed at the BMRC Wind Profiler Site (North-East Corner of Stuart Highway and McMillans Road)



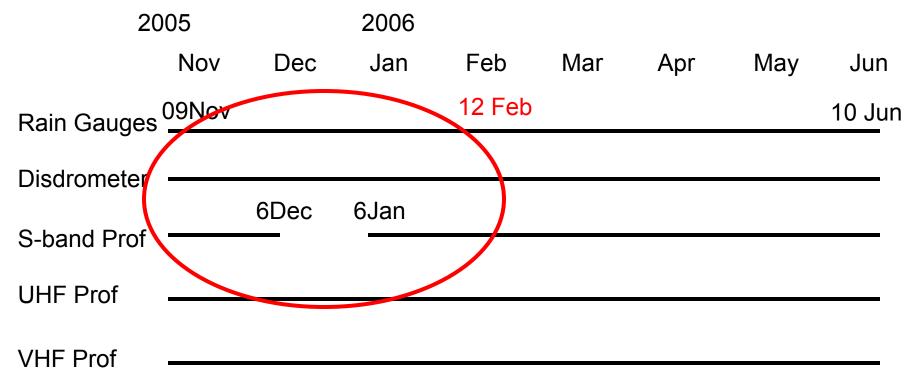
Instruments

Instruments deployed at the BMRC Wind Profiler Site during TWPICE:

- 2 Tipping Bucket Rain Gauges
- 1 Joss-Waldvogel Disdrometer (second unit DOA [dead on arrival])
- 1 Vertical S-band Profiler (2835-MHz)
- 1 UHF Wind Profiler (920-MHz)
- 1 VHF Wind Profiler (50-MHz)

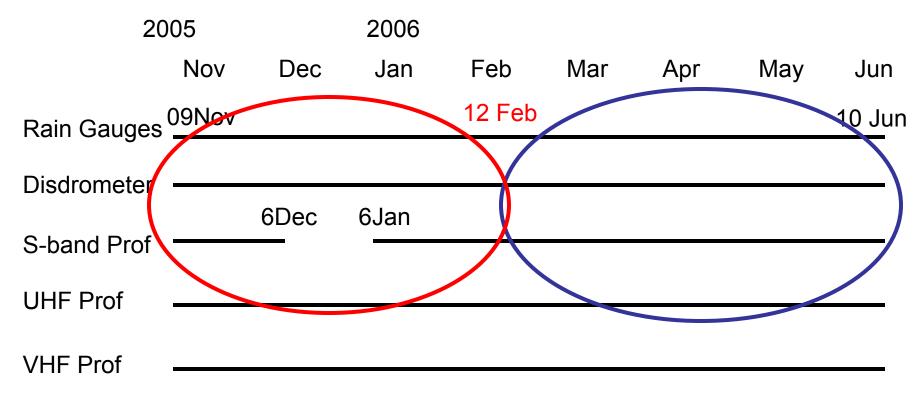
	2005		2006					
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Rain Gaug	ges ^{09Nov}							10 Jun
Disdromet	er ——							
S-band Pr	of	6Dec	6Jan					
UHF Prof								
VHF Prof								

S-band profiler was down from 6 Dec – 6 Jan due to a software error.



S-band profiler was down from 6 Dec – 6 Jan due to a software error.

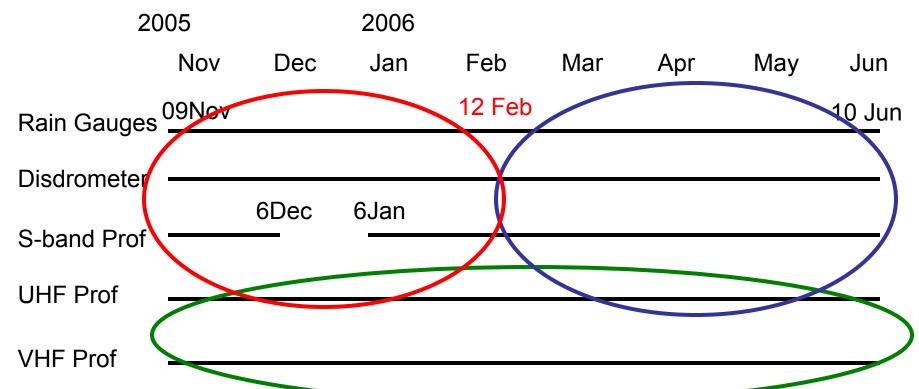
Before 12 Feb, on TWPICE IOP Archive



S-band profiler was down from 6 Dec – 6 Jan due to a software error.

Before 12 Feb, on TWPICE IOP Archive

After 12 Feb needs to be put on TWPICE IOP Archive



S-band profiler was down from 6 Dec 6 Jan due to a software error.

Before 12 Feb, on TWPICE IOP Archive

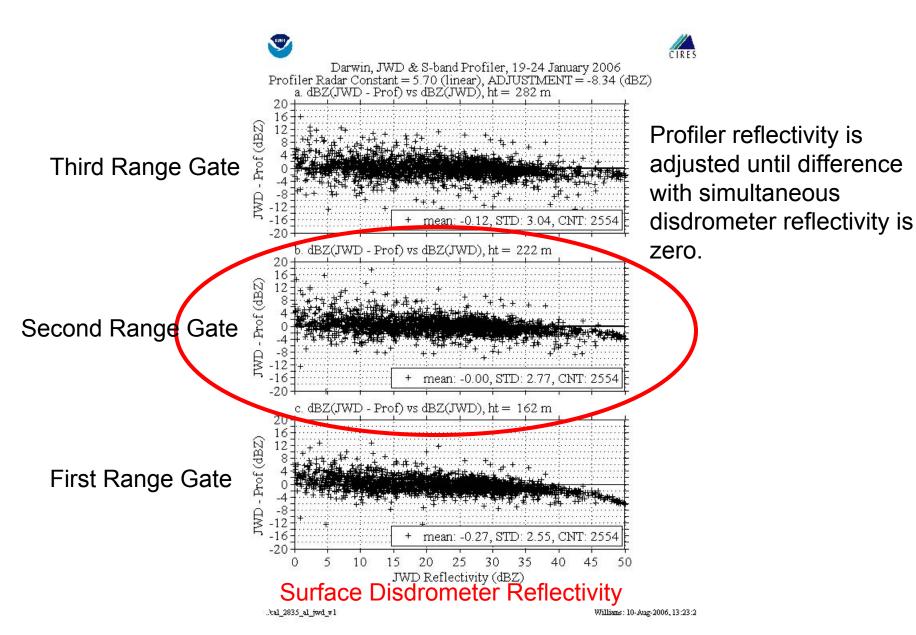
After 12 Feb needs to be put on TWPICE IOP Archive

UHF and VHF should appear on ARM Standard Archive

Documentation

- Hypertext on ARM TWPICE IOP Archive describes:
 - Data format
 - Calculations that convert disdrometer number count to number concentration, N(D)
 - Calibration procedure for S-band Profiler using Disdrometer observations

Calibration of S-band Profiler



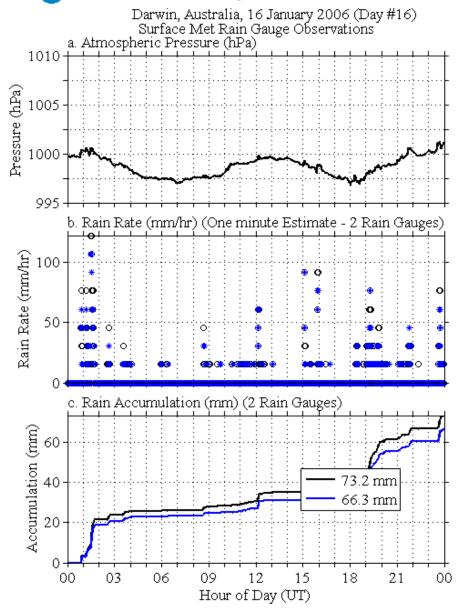
Data Format

- Rain Gauge
 - Daily Images
 - Rain Rate and Accumulation
 - Daily ASCII files (10 second)
- Disdrometer
 - Daily Images
 - Reflectivity, Rain Rate, N(D)
 - Reflectivity, Rain Rate, Rain Accumulation
 - Daily ASCII files (minute)
- S-band Profiler
 - Daily Images
 - Precipitation Mode (0-9 km): Z, <V>, Spectral Width
 - Cloud Mode (0-15 km): Z, <V>, Spectral Width
 - Daily netCDF files
 - Every profile: Precip & Cloud modes (new profile every 10 seconds)
 - Minute Averages: Precip & Cloud modes



NOAA/ESRL Physical Sciences Division Preliminary Observations





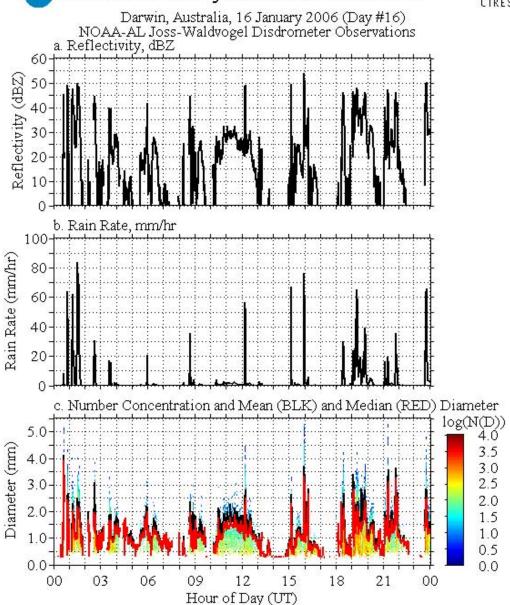
Data Format

- Rain Gauge
 - Daily Images
 - Rain Rate and Accumulation
 - Daily ASCII files (10 second)
- Disdrometer
 - Daily Images
 - Reflectivity, Rain Rate, N(D)
 - Reflectivity, Rain Rate, Rain Accumulation
 - Daily ASCII files (minute)
- S-band Profiler
 - Daily Images
 - Precipitation Mode (0-9 km): Z, <V>, Spectral Width
 - Cloud Mode (0-15 km): Z, <V>, Spectral Width
 - Daily netCDF files
 - Every profile: Precip & Cloud modes (new profile every 10 seconds)
 - Minute Averages: Precip & Cloud modes



NOAA/ESRL Physical Sciences Division

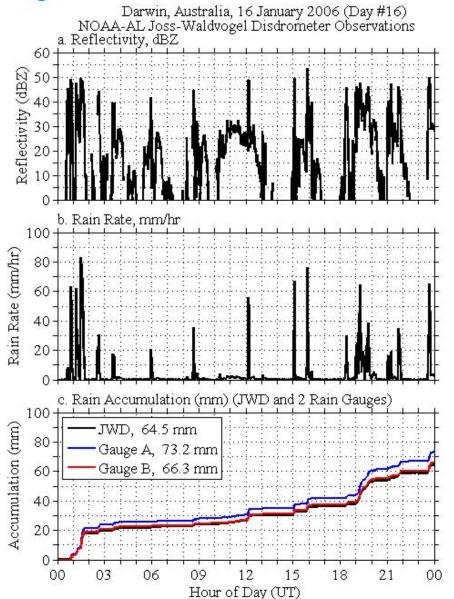






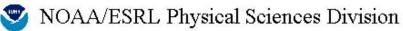
NOAA/ESRL Physical Sciences Division



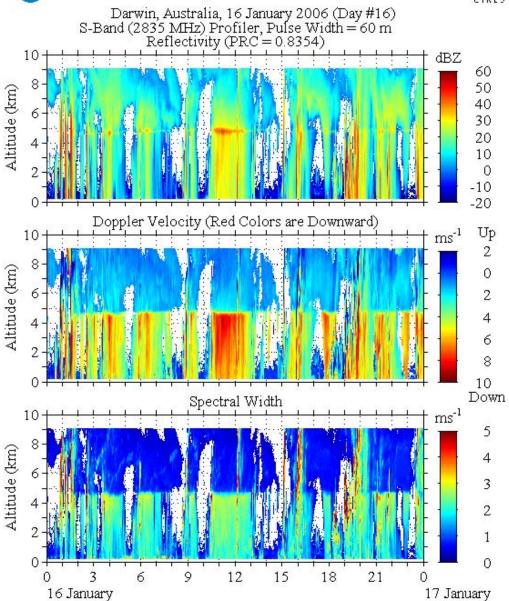


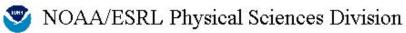
Data Format

- Rain Gauge
 - Daily Images
 - Rain Rate and Accumulation
 - Daily ASCII files (10 second)
- Disdrometer
 - Daily Images
 - Reflectivity, Rain Rate, N(D)
 - Reflectivity, Rain Rate, Rain Accumulation
 - Daily ASCII files (minute)
- S-band Profiler
 - Daily Images
 - Precipitation Mode (0-9 km): Z, <V>, Spectral Width
 - Cloud Mode (0-15 km): Z, <V>, Spectral Width
 - Daily netCDF files
 - Every profile: Precip & Cloud modes (new profile every 10 seconds)
 - Minute Averages: Precip & Cloud modes

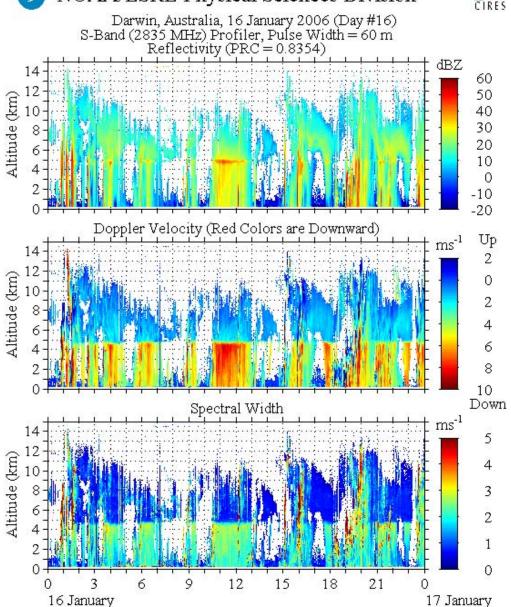












Location of Data

- ARM TWPICE IOP Archive (09Nov-12Feb)
- DVD's (09Nov-12Feb)
- Drop Size Distributions as a function of altitude (DSDs) available on case-by-case basis – but not on IOP archive