

## DISCOVER-AQ Daily Observational Status

Date: 28 January 2013

### Status definitions:

**Green = Full Capability (no comment required)**

**Yellow = Partial Capability (comment on specific instruments or variables compromised)**

**Red = Severe or Total Loss of Capability (comment on prognosis for recovery)**

P-3B	Status	Comment
LARGE (Anderson)	Green	
NOxyO3 (Weinheimer)	Green	
TD-LIF (Cohen)	Red	Instrument failed during flight, but did collect data for 3 hours. The optic survived, but there are still some residual issues from the original incident. The instrument should be ready for another try on the next flight.
DFGAS (Fried)	Green	
DACOM (Diskin)	Green	
DLH (Diskin)	Green	
AVOCET (Yang)	Green	
PTR-MS (Wisthaler)	Green	
NOAA NH3 (Nowak)	Green	
PDS (Barrick)	Green	
REVEAL (VanGilst)	Green	
B200	Status	Comment
HSRL-2 (Hostetler)	Green	
ACAM (Janz)	Green	
Ground	Status	Comment
Pandora (Herman)	Green	
NATIVE (Thompson)	Green	(see detailed report on next page)
UMBC (Hoff)	Green	
Millersville (Clark)	Green	
Aeronet (Holben)	Green	
UC-Davis (Zhang/Cappa)	Green	
UC-Davis (VanCuren)	Green	
UC-Santa Barbara (Leifer)	Red	Not deployed yet (collaboration; not mission critical)
UC-Irvine (Kim/Blake)	Green	
EPA (Long/Szykman)	Green	
NOAA (Michalsky/Lantz)	Green	
ARB/SJV APCD Sites	Status	Comment
Bakersfield Airport	Green	
Fresno-Garland	Green	
Hanford	Green	
Huron	Green	
Oildale	Green	
Porterville	Green	
Tranquility	Green	

Penn State/NATIVE  
DISCOVER-AQ 2013  
Porterville, CA

Lat: 36.0319  
Lon: -119.055  
Last Updated: 28-Jan-2013  
Contact: Douglas Martins  
Email: [dkm18@psu.edu](mailto:dkm18@psu.edu)  
Phone: 814-777-7346

Nominal

Data Suspect/Waiting

Not Recording

Overall Status

Instrument (Mfg/Model)	Status	Constituent
<b>Penn State</b>		
Ozone Analyzer (O3, TECO 49C)		O3
Sulfur Dioxide Analyzer (SO2, TECO 43C)		SO2
Carbon Monoxide Analyzer (CO, TECO 48C)		CO
Reactive Nitrogen Analyzer (NOy, TECO 42C-Y)		NO, NOy
Temperature Probe (R.M. Young 41382L-90C)		Temperature
Relative Humidity Probe (R.M. Young 41382L-90C)		Relative Humidity
Pressure (R.M. Young 61202)		Pressure
Mechanical Anemometer (R.M. Young 05103)		Wind Speed, Direction
J-NO2 Filter Radiometer (Met-Con)		NO2 Photolysis Rate
Spectral Pyranometer (Eppley PSP)		Total Irradiance
Sonic Anemometer (Applied Technologies K-Style)	Bad amplifier, will arrive on Jan. 29	u, v, w, temperature
PTR-MS (Ionicon)		Speciated VOCs
VOC canisters	No Canisters Today	Speciated VOCs
Pandora		Column NO2, O3
Ozone/Radiosondes (DMT, IMet-1)	no sonde yesterday, one sonde today	Relative Humidity, Wind Speed, Wind Direction
Fast Mobility Particle Sizer		Particles
NOx Analyzer (Ecophysics CLD 60)	Instrument Not Working Properly	NO, NO2, Nox
Cavity Ring-Down Spectrometer		CO2, CH4, 13CO2, 13CH4
*Instrument statuses below are based on Penn State's assessment, true assessment provided by PI		
<b>UMBC</b>		
Nephelometer		Particles
Micro-pulse lidar		Aerosols
<b>NASA Goddard</b>		
Pandora		Column NO2, O3
Cimel sun photometer		Aerosol Optical Depth
<b>EPA/NASA Langley</b>		
CAPS NO2		NO2