

## DISCOVER-AQ Daily Observational Status

**Date: 4 February 2013**

**Status definitions:**

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

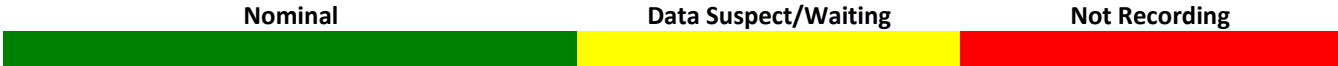
**Yellow = Partial Capability (comment on specific instruments or variables compromised)**

**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 power supply failed during preflight, replacement will be available for maintenance day tomorrow
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)	Green	
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  
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**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)		u, v, w, temperature
PTR-MS (Ionicon)		Speciated VOCs
VOC canisters	3 UCI, 5 Penn State	Speciated VOCs
Pandora		Column NO2, O3
Ozone/Radiosondes (DMT, IMet-1)	2 sondes	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