

Flight Report: DISCOVER-AQ Science Flight #8

From: KPMD To: KPMD

Start: 02/01/13 16:19 Z Finish: 02/02/13 00:16 Z

Flight Time: 8.0 hours

Log Number: 13P201 PI: James Crawford

Funding Source: Hal Maring - NASA - SMD Radiation Science Program

Official report logged at:

[http://airbornescience.nasa.gov/flight_reports/P-3 Orion 02 01 13 - 02 02 13](http://airbornescience.nasa.gov/flight_reports/P-3_Orion_02_01_13_-_02_02_13)

Flight	Date	Duration	Cumulative Hours	DISCOVER-AQ Hours remaining	PODEX Hours remaining
<i>Total Allocated</i>				100	21
ECF	1/10/13	1.1	1.1	98.9	21
ECF -2	1/10/13	0.6	1.7	98.3	21
PCF	1/10/13	2.1	3.8	96.2	21
Transit	1/14/13	8.3	12.1	87.9	21
Science Flight – 1	1/16/13	8.4	20.5	79.5	21
Science Flight – 2	1/18/13	7.6	28.1	71.9	21
Science Flight – 3	1/20/13	7.4	35.5	64.5	21
Science Flight – 4	1/21/13	7.6	43.1	56.9	21
Science Flight – 5	1/22/13	7.9	51	49	21
PODEX - 1	1/28/13	5.4	56.4	49	15.6
Science Flight – 6	1/30/13	7.7	64.1	41.3	15.6
Science Flight – 7	1/31/13	7.7	71.8	33.6	15.6
Science Flight – 8	2/1/13	8	79.8	25.6	15.6

Comments: This was the eighth DISCOVER-AQ flight into the central valley, and the second of two flights coordinating with collaborators at the Bay Area Air Quality Management District (BAAQMD). Pollution levels were spatially variable on this day with the most particulate pollution in the center of the flight domain (Corcoran-Hanford). Porterville also saw its highest aerosol scattering thus far in the campaign. The low altitude transect over the northern portion of the valley was even cleaner than the previous day at the far northern end (Yuba City). Unlike the previous day, there were gradients on the other missed approaches, so these two flights should offer some contrast to interpret.