

Flight Report: DISCOVER-AQ Science Flight #5

From: KPMD To: KPMD

Start: 01/30/13 15:57 Z Finish: 01/30/13 23:40 Z

Flight Time: 7.7 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 01 30 13](http://airbornescience.nasa.gov/flight_reports/P-3_Orion_01_30_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

Comments: This was the sixth DISCOVER-AQ flight into the central valley. This flight was expected to encounter relatively clean conditions at the beginning of a 3-day period forecasted to bring clear skies and increasing aerosol pollution. The forecast differed from the earlier build-up in that a weaker inversion was expected to allow material to reach higher than 2000 feet. The flight corroborated both expectations in that aerosol scattering was much lower than in previous flight (20-50/Mm) and evidence of weak layers of pollution were observed up to 4500 feet, more than twice as high as all previous observations.