

Flight Report: PODEX Science Flight #2

From: KPMD To: KPMD

Start: 02/03/13 17:26 Z Finish: 02/03/13 22:26 Z

Flight Time: 5.0 hours

Log Number: 13P302 PI: David Starr

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

Official report logged at:

[http://airbornescience.nasa.gov/flight_reports/P-3 Orion 02 03 13 0](http://airbornescience.nasa.gov/flight_reports/P-3_Orion_02_03_13_0)

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
PODEX -2	2/3/13	5	84.8	25.6	10.6

Comments: This was the second PODEX flight for DISCOVER-AQ. The target area was planned for clear skies over the ocean off the coast of southern California with low level marine stratocumulus. The P-3B was directed by Jens Redemann and executed five sampling legs across the marine cloud field characterizing the cloud properties for the polarimeters flying overhead on the ER-2. Flights focused on sampling just above and below cloud base as well as legs within the clouds. The cloud deck was closed cell, allowing for more uniform conditions than seen on the previous flight. Not all instruments participated in this flight. LARGE, DACOM, DLH, and TD-LIF were operating.