

Flight Report: DISCOVER-AQ Science Flight #5

From: KEFD To: KEFD

Start: 09/13/13 13:50 Z Finish: 09/13/13 21:45 Z

Flight Time: 7.9 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_09_13_13

| Flight | Date | Duration | Cumulative Hours | DISCOVER-AQ Hours remaining |
|------------------------|---------|----------|------------------|-----------------------------|
| <i>Total Allocated</i> | | | | 100 |
| ECF | 8/27/13 | 2.3 | 2.3 | 97.7 |
| PCF | 8/28/13 | 2.1 | 4.4 | 95.6 |
| Transit | 9/2/13 | 3.9 | 8.3 | 91.7 |
| Science Flight - 1 | 9/4/13 | 8.0 | 16.3 | 83.7 |
| Science Flight - 2 | 9/6/13 | 7.9 | 24.2 | 75.8 |
| Science Flight - 3 | 9/11/13 | 8.2 | 32.4 | 67.6 |
| Science Flight - 4 | 9/12/13 | 8.0 | 40.4 | 59.6 |
| Science Flight - 5 | 9/13/13 | 7.9 | 48.3 | 51.7 |

Comments: This was the fifth science flight for DISCOVER-AQ. During this flight, all 24 spirals were again completed. This was enabled partly due to increasing the rate of descent in the upper portion of the spirals. The smoke layer aloft continued to be present across the entire study region. Ozone levels were similar to the previous day, with high levels at West Houston as well as the ship channel run leading into Moody Tower.