

## B-200 - LARC 09/04/13

Aircraft: [B200 - LARC](#) (See full schedule)

Flight Number: 2013 Houston DISCOVER AQ R-005A

Payload Configuration: HSRL 2 and ACAM/GCAS

Nav Data Collected: No

Total Flight Time: 3.7 hours

Submitted by: Michael S. Wusk on 09/05/13

### Flight Segments:

|                           |  |                |                  |
|---------------------------|--|----------------|------------------|
| <b>From:</b>              | KEFD   | <b>To:</b>     | KEFD             |
| <b>Start:</b>             | 09/04/13 13:34 Z   | <b>Finish:</b> | 09/04/13 17:18 Z |
| <b>Flight Time:</b>       | 3.7 hours  |                |                  |
| <b>Log Number:</b>        | <a href="#">13B201</a>   | <b>PI:</b>     | James Crawford   |
| <b>Funding Source:</b>    | Hal Maring - NASA - SMD - ESD Radiation Science Program  |                |                  |
| <b>Purpose of Flight:</b> | Science  |                |                  |
| <b>Comments:</b>          | DISCOVER AQ Science Flight of aircraft from Ellington. Crew was Yasky, Wusk, Harper. First flight of the day. First science flight of Deployment over Houston. Data taken with HSRL II and ACAM/GCAS during flight. Weather build ups in the area prevented overflight of the Smith Point area and path was in the clouds over portions of the southern Houston and coastal areas. Completed two (truncated for Wx) DAQ patterns. Terminated for refueling at Ellington. |                |                  |

### Flight Hour Summary:

|                                       | 13B201 |
|---------------------------------------|--------|
| <b>Flight Hours Approved in SOFRS</b> | 256.4  |
| <b>Total Used</b>                     | 201.5  |
| <b>Total Remaining</b>                | 54.9   |

### 13B201 Flight Reports

| Date                                | Flt #                  | Purpose of Flight | Duration | Running Total | Hours Remaining | Miles Flown |
|-------------------------------------|------------------------|-------------------|----------|---------------|-----------------|-------------|
| <a href="#">01/08/13</a>            | 2013 DISCOVER AQ I-001 | Science           | 1.7      | 1.7           | 254.7           |             |
| <a href="#">01/10/13</a>            | 2013 DISCOVER AQ I-002 | Science           | 4.2      | 5.9           | 250.5           |             |
| <a href="#">01/13/13</a>            | 2013 DISCOVER AQ R-003 | Science           | 3.7      | 9.6           | 246.8           |             |
| <a href="#">01/13/13</a>            | 2013 DISCOVER AQ R-003 | Science           | 2.5      | 12.1          | 244.3           |             |
| <a href="#">01/14/13</a>            | 2013 DISCOVER AQ R-004 | Science           | 1.9      | 14            | 242.4           |             |
| <a href="#">01/14/13</a>            | 2013 DISCOVER AQ R-004 | Science           | 2.8      | 16.8          | 239.6           |             |
| <a href="#">01/16/13</a>            | 2013 DISCOVER AQ R-005 | Science           | 3.7      | 20.5          | 235.9           |             |
| <a href="#">01/16/13 - 01/17/13</a> | 2013 DISCOVER AQ R-005 | Science           | 3.8      | 24.3          | 232.1           |             |
| <a href="#">01/18/13</a>            | 2013 DISCOVER AQ R-006 | Science           | 3.6      | 27.9          | 228.5           |             |
| <a href="#">01/18/13 - 01/19/13</a> | 2013 DISCOVER AQ R-006 | Science           | 3.8      | 31.7          | 224.7           |             |
| <a href="#">01/20/13</a>            | 2013 DISCOVER AQ R-007 | Science           | 3.7      | 35.4          | 221             |             |
| <a href="#">01/20/13</a>            | 2013 DISCOVER AQ R-007 | Science           | 3.7      | 39.1          | 217.3           |             |

|                                     |   |         |     |       |       |
|-------------------------------------|---|---------|-----|-------|-------|
| <a href="#">01/21/13</a>            | 2013 DISCOVER AQ R-008                  | Science | 3.6 | 42.7  | 213.7 |
| <a href="#">01/21/13</a>            | 2013 DISCOVER AQ R-008                  | Science | 3.7 | 46.4  | 210   |
| <a href="#">01/22/13</a>            | 2013 DISCOVER AQ R-009                  | Science | 3.9 | 50.3  | 206.1 |
| <a href="#">01/22/13 - 01/23/13</a> | 2013 DISCOVER AQ R-009                  | Science | 4   | 54.3  | 202.1 |
| <a href="#">01/30/13</a>            | 2013 DISCOVER AQ R-011                  | Science | 4   | 58.3  | 198.1 |
| <a href="#">01/30/13 - 01/31/13</a> | 2013 DISCOVER AQ R-011                  | Science | 3.8 | 62.1  | 194.3 |
| <a href="#">01/31/13</a>            | 2013 DISCOVER AQ R-012                  | Science | 2.9 | 65    | 191.4 |
| <a href="#">01/31/13 - 02/01/13</a> | 2013 DISCOVER AQ R-012                  | Science | 3.7 | 68.7  | 187.7 |
| <a href="#">02/01/13</a>            | 2013 DISCOVER AQ R-013                  | Science | 2.9 | 71.6  | 184.8 |
| <a href="#">02/01/13 - 02/02/13</a> | 2013 DISCOVER AQ R-013                  | Science | 3.9 | 75.5  | 180.9 |
| <a href="#">02/04/13</a>            | 2013 DISCOVER AQ R-014                  | Science | 3.7 | 79.2  | 177.2 |
| <a href="#">02/04/13 - 02/05/13</a> | 2013 DISCOVER AQ R-014                  | Science | 3.7 | 82.9  | 173.5 |
| <a href="#">02/06/13</a>            | 2013 DISCOVER AQ R-015                  | Science | 3.5 | 86.4  | 170   |
| <a href="#">08/21/13</a>            | 2013 Houston DISCOVER AQ I-001          | Check   | 2.4 | 88.8  | 167.6 |
| <a href="#">08/23/13</a>            | 2013 Houston DISCOVER AQ I-002          | Check   | 2.8 | 91.6  | 164.8 |
| <a href="#">08/27/13</a>            | 2013 Houston DISCOVER AQ I-003          | Check   | 4.2 | 95.8  | 160.6 |
| <a href="#">09/02/13</a>            | 2013 Houston DISCOVER AQ R-004          | Science | 4.3 | 100.1 | 156.3 |
| <a href="#">09/02/13</a>            | 2013 Houston DISCOVER AQ R-004          | Science | 1.5 | 101.6 | 154.8 |
| <a href="#">09/04/13</a>            | 2013 Houston DISCOVER AQ R-005A         | Science | 3.7 | 105.3 | 151.1 |
| <a href="#">09/04/13</a>            | 2013 Houston DISCOVER AQ R-005B         | Science | 4.1 | 109.4 | 147   |
| <a href="#">09/06/13</a>            | 2013 Houston DISCOVER AQ R-006A         | Science | 3.8 | 113.2 | 143.2 |
| <a href="#">09/06/13</a>            | 2013 Houston DISCOVER AQ R-006B         | Science | 3.6 | 116.8 | 139.6 |
| <a href="#">09/10/13</a>            | 2013 Houston DISCOVER AQ GeoCape R-007A | Science | 2.7 | 119.5 | 136.9 |
| <a href="#">09/10/13</a>            | 2013 Houston DISCOVER AQ GeoCape R-007B | Science | 1.8 | 121.3 | 135.1 |
| <a href="#">09/10/13</a>            | 2013 Houston DISCOVER AQ GeoCape R-007C | Science | 2.8 | 124.1 | 132.3 |
| <a href="#">09/11/13</a>            | 2013 Houston DISCOVER AQ R-008A         | Science | 3.7 | 127.8 | 128.6 |
| <a href="#">09/11/13</a>            | 2013 Houston DISCOVER AQ R-008B         | Science | 3.7 | 131.5 | 124.9 |
| <a href="#">09/12/13</a>            | 2013 Houston DISCOVER AQ R-009A         | Science | 3.7 | 135.2 | 121.2 |

|                          |   |         |     |       |       |
|--------------------------|---|---------|-----|-------|-------|
| <a href="#">09/12/13</a> | 2013 Houston<br>DISCOVER AQ R-009B            | Science | 3.8 | 139   | 117.4 |
| <a href="#">09/13/13</a> | 2013 Houston<br>DISCOVER AQ R-010A            | Science | 4   | 143   | 113.4 |
| <a href="#">09/13/13</a> | 2013 Houston<br>DISCOVER AQ R-010B            | Science | 3.8 | 146.8 | 109.6 |
| <a href="#">09/14/13</a> | 2013 Houston<br>DISCOVER AQ R-011A            | Science | 3.9 | 150.7 | 105.7 |
| <a href="#">09/14/13</a> | 2013 Houston<br>DISCOVER AQ R-011B            | Science | 3.9 | 154.6 | 101.8 |
| <a href="#">09/17/13</a> | 2013 Houston<br>DISCOVER AQ<br>GeoCape R-012A | Science | 3.9 | 158.5 | 97.9  |
| <a href="#">09/17/13</a> | 2013 Houston<br>DISCOVER AQ<br>GeoCape R-012B | Science | 4   | 162.5 | 93.9  |
| <a href="#">09/18/13</a> | 2013 Houston<br>DISCOVER AQ R-013A            | Science | 4   | 166.5 | 89.9  |
| <a href="#">09/18/13</a> | 2013 Houston<br>DISCOVER AQ R-013B            | Science | 3.8 | 170.3 | 86.1  |
| <a href="#">09/24/13</a> | 2013 Houston<br>DISCOVER AQ R-014A<br>& B     | Science | 3.7 | 174   | 82.4  |
| <a href="#">09/24/13</a> | 2013 Houston<br>DISCOVER AQ R-014A<br>& B     | Science | 3.7 | 177.7 | 78.7  |
| <a href="#">09/25/13</a> | 2013 Houston<br>DISCOVER AQ R-015A            | Science | 3.7 | 181.4 | 75    |
| <a href="#">09/25/13</a> | 2013 Houston<br>DISCOVER AQ R-015B            | Science | 3.8 | 185.2 | 71.2  |
| <a href="#">09/26/13</a> | 2013 Houston<br>DISCOVER AQ R-016A            | Science | 3.6 | 188.8 | 67.6  |
| <a href="#">09/26/13</a> | 2013 Houston<br>DISCOVER AQ R-016B            | Science | 3.9 | 192.7 | 63.7  |
| <a href="#">09/27/13</a> | 2013 Houston<br>DISCOVER AQ R-017             | Science | 3.9 | 196.6 | 59.8  |
| <a href="#">09/28/13</a> | 2013 Houston<br>DISCOVER AQ R-018             | Science | 3.6 | 200.2 | 56.2  |
| <a href="#">09/28/13</a> | 2013 Houston<br>DISCOVER AQ R-018B            | Ferry   | 1.3 | 201.5 | 54.9  |

*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

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