

Cessna 206H 05/23/12

Aircraft: [Cessna 206H - LaRC](#) ([See full schedule](#))

Flight Number: G-LiHT 12-01 C-206

Payload Configuration: G-LiHT 2012 C-206

Nav Data Collected: Yes

Total Flight Time: 7.1 hours

Submitted by: Gregory L. Slover on 05/25/12

Flight Segments:

| | | | |
|---------------------------|--|----------------|------------------|
| From: | Langley AFB, VA | To: | Salisbury, MD |
| Start: | 05/23/12 14:20 Z | Finish: | 05/23/12 18:07 Z |
| Flight Time: | 3.8 hours | | |
| Log Number: | 12C002 | PI: | Bruce Cook |
| Funding Source: | Bruce Fisher - NASA - SMD - ESD LARC Chief Engineer, Research Services Directorate | | |
| Purpose of Flight: | Science | | |
| Comments: | <p>Goddard's LiDAR, Hyperspectral and Thermal (G-LiHT) airborne imager was installed on LaRC's C-206. An instrument check, boresight alignment and science data collection flight was performed over Gloucester, VA and Eastern Shore, MD on 23 May 2012 providing useful structural, spectral, and thermal data in forests during springtime "leaf-on conditions" which will be compared with previously flown flight tracks from other seasons. The Gloucester Point boresight alignment consisted of 8 intersecting, perpendicular lines. The Eastern Shore activity consisted of 6 parallel lines in Eastern Shore South-A, 9 parallel lines in Eastern Shore South-B, and 8 parallel lines in Eastern Shore Central work areas. The aircraft then flew to Salisbury for refueling for the next mission.</p> | | |

| | | | |
|---------------------------|---|----------------|------------------|
| From: | Salisbury, MD | To: | Langley AFB, VA |
| Start: | 05/23/12 15:22 Z | Finish: | 05/23/12 18:38 Z |
| Flight Time: | 3.3 hours | | |
| Log Number: | 12C002 | PI: | Bruce Cook |
| Funding Source: | Bruce Fisher - NASA - SMD - ESD LARC Chief Engineer, Research Services Directorate | | |
| Purpose of Flight: | Science | | |
| Comments: | <p>Goddard's LiDAR, Hyperspectral and Thermal (G-LiHT) airborne imager was installed on LaRC's C-206. A science data collection flight was performed over the remaining set of 30 lines at Eastern Shore North on 23 May 2012 providing useful structural, spectral, and thermal data in forests during springtime "leaf-on conditions" which will be compared with previously flown flight tracks from other seasons. After completing 15-16 lines, the crew noticed the G-LiHT instrument navigation solution was incorrect. Approximately 30 min was used to troubleshoot, shut down and realign the system. After a full shutdown, the system returned to nominal performance. After repeating two lines that were suspect and flying 8 more lines, enough data was collected to complete lines 1-22. The remaining lines will be added to GSFC's list of lines to accomplish during the remaining spring campaign and prioritized accordingly. GSFC's quick look of the data indicated that all data collected are valid. The flights were deemed successful and the instrument remains on the aircraft. Further G-LiHT flight operations are scheduled in Jun to complete the 8 missing flight lines and deployment to New England with the C-206 wing mounted configuration.</p> | | |

Flight Hour Summary:

| | 12C002 |
|---------------------------------------|--------|
| Flight Hours Approved in SOFRS | 40 |
| Total Used | 76.6 |
| Total Remaining | -36.6 |

| 12C002 Flight Reports | | | | | | |
|--------------------------|--------------------|-------------------|----------|---------------|-----------------|-------------|
| Date | Flt # | Purpose of Flight | Duration | Running Total | Hours Remaining | Miles Flown |
| 05/23/12 | G-LiHT 12-01 C-206 | Science | 3.8 | 3.8 | 36.2 | |

| | | | | | |
|---|-------------------------|---------|-----|------|-------|
| 05/23/12 | G-LiHT 12-01 C-206 | Science | 3.3 | 7.1 | 32.9 |
| 06/04/12 | G-LiHT 12-02 C206 | Ferry | 3.4 | 10.5 | 29.5 |
| 06/04/12 | G-LiHT 12-02 C206 | Ferry | 0.1 | 10.6 | 29.4 |
| 06/04/12 | G-LiHT 12-02 C206 | Ferry | 2.9 | 13.5 | 26.5 |
| 06/04/12 - 06/05/12 | G-LiHT 12-02 C206 | Ferry | 2 | 15.5 | 24.5 |
| 06/05/12 | G-LiHT 12- 003 C206 | Science | 4.8 | 20.3 | 19.7 |
| 06/06/12 | G-LiHT 12- 004 C206 | Science | 5.1 | 25.4 | 14.6 |
| 06/06/12 | G-LiHT 12- 004 C206 | Science | 0.6 | 26 | 14 |
| 06/07/12 | G-LiHT 12- 005 C206 | Science | 2.7 | 28.7 | 11.3 |
| 06/07/12 | G-LiHT 12- 005 C206 | Science | 2.6 | 31.3 | 8.7 |
| 06/08/12 | G-LiHT 12- 006 C206H | Ferry | 3.3 | 34.6 | 5.4 |
| 06/08/12 | G-LiHT 12- 006 C206H | Science | 2.3 | 36.9 | 3.1 |
| 06/08/12 | G-LiHT 12- 006 C206H | Ferry | 2.6 | 39.5 | 0.5 |
| 06/19/12 | G-LiHT 12- 007 C206H | Ferry | 3.5 | 43 | -3 |
| 06/19/12 | G-LiHT 12- 007 C206H | Science | 2 | 45 | -5 |
| 06/20/12 | G-LiHT 12- 008 C206H | Science | 3.1 | 48.1 | -8.1 |
| 06/20/12 | G-LiHT 12- 008 C206H | Science | 4.2 | 52.3 | -12.3 |
| 06/21/12 | G-LiHT 12- 009 C206H | Science | 4.2 | 56.5 | -16.5 |
| 06/21/12 | G-LiHT 12- 009 C206H | Science | 3.8 | 60.3 | -20.3 |
| 06/22/12 | G-LiHT 12- 010 C206H | Science | 2.4 | 62.7 | -22.7 |
| 06/22/12 | G-LiHT 12- 010 C206H | Science | 3.1 | 65.8 | -25.8 |
| 06/27/12 | G-LiHT 12- 011 C206H | Science | 3.6 | 69.4 | -29.4 |
| 06/27/12 | G-LiHT 12- 011 C206H | Science | 3.4 | 72.8 | -32.8 |
| 06/28/12 | G-LiHT 12- 012 C206H | Science | 3.8 | 76.6 | -36.6 |

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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NASA Official: Bruce A. Tagg

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