

ATTREX - Global Hawk #872 02/05/13 - 02/06/13 Science Report

Aircraft: [Global Hawk - AFRC #872](#) ([See full schedule](#))

Date: Tuesday, February 5, 2013 - Wednesday, February 6, 2013

Mission: ATTREX

Mission Location: NASA Dryden Flight Research Center

Mission Summary:

This flight provided several profiles in the tropics and subtropics, including multiple passes through air colder than 189 K. Extremely dry air was sampled in the upper TTL. The combination of satellite measurements and in situ data collected on this flight should allow evaluation of the dehydration occurring during the anomalously cold tropical tropopause conditions that prevailed during January 2013. Ice clouds were detected in the lower TTL, but not in the upper TTL associated with the very dry layers. The southernmost legs extended down to about 12.5 N between about 144 and 150 W.

Submitted by: Erin Czech on 02/25/13

File:

 [ATTREX_SciRpt_020513.pdf](#)

Related Flight Report:

Global Hawk #872 02/05/13 - 02/06/13

Flight Number: 872-0105

Payload Configuration: ATTREX - TN872 2013 configuration

Nav Data Collected: No

Total Flight Time: 24.5 hours

Archive Data: [20130205](#) (14 archive (plain-text) files)

Submitted by: Chris Naftel on 02/09/13

Flight Segments:

| | | | |
|---------------------------|--|----------------|------------------|
| From: | EAFB | To: | EAFB |
| Start: | 02/05/13 15:54 Z | Finish: | 02/06/13 16:25 Z |
| Flight Time: | 24.5 hours | | |
| Log Number: | 13H003 | PI: | Eric Jensen |
| Funding Source: | Hal Maring - NASA - SMD - ESD Radiation Science Program | | |
| Purpose of Flight: | Science | | |
| Comments: | The first ATTREX science mission in 2013 was very successful. The 24.5 hour flight in the Pacific tropical zone included numerous descents and climbs through very cold air. The only issue with the aircraft was a cracked glass cover on the HDVis camera, which was replaced after landing. | | |

Flight Hour Summary:

| | |
|---------------------------------------|---------------|
| | 13H003 |
| Flight Hours Approved in SOFRS | 208 |
| Total Used | 152.9 |
| Total Remaining | 55.1 |

13H003 Flight Reports

| Date | Flt # | Purpose of Flight | Duration | Running Total | Hours Remaining | Miles Flown |
|-------------------------------------|----------|-------------------|----------|---------------|-----------------|-------------|
| 01/19/13 | 872-0104 | Check | 6.5 | 6.5 | 201.5 | |
| 02/05/13 - 02/06/13 | 872-0105 | Science | 24.5 | 31 | 177 | |
| 02/09/13 - 02/10/13 | 872-0106 | Science | 24.3 | 55.3 | 152.7 | |

| | | | | | |
|-------------------------------------|----------|---------|------|-------|-------|
| 02/14/13 - 02/15/13 | 872-0107 | Science | 24.5 | 79.8 | 128.2 |
| 02/21/13 - 02/22/13 | 872-0108 | Science | 24.6 | 104.4 | 103.6 |
| 02/26/13 - 02/27/13 | 872-0109 | Science | 24.4 | 128.8 | 79.2 |
| 03/01/13 - 03/02/13 | 872-0110 | Science | 24.1 | 152.9 | 55.1 |

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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