

DC-8 01/24/18

Aircraft: [DC-8 - AFRC](#) ([See full schedule](#))

Flight Number: 1242

Payload Configuration: NDMAX Configuration - DLR H2O (CR2 WARAN), DLR OPC, DLR PMS, ERICA, LARGE, LARGE-AMS, PTR-M viewing video cameras and piggybacking ARMAS & TinMan. CAPS and CPSPD cannister probes not installed in #2 position as do not yet have RVSM certi

Nav Data Collected: Yes

Total Flight Time: 6.1 hours

Submitted by: Timothy Moes on 01/24/18

Flight Segments:

| | | | |
|---------------------------|---|----------------|--------------------------|
| From: | ETAR - Ramstein Air Base | To: | ETAR - Ramstein Air Base |
| Start: | 01/24/18 10:59 Z | Finish: | 01/24/18 17:02 Z |
| Flight Time: | 6.1 hours | | |
| Log Number: | 188007 | PI: | Bruce Anderson |
| Funding Source: | Jay Dryer - NASA - ARMD - Director of Advanced Air Vehicles Program | | |
| Purpose of Flight: | Science | | |
| Comments: | The DC-8 sampled emissions & contrails behind an A320 burning blended biofuel #1 (50% Clean Jet A / 50% biofuel). Successful science flight with sampling obtained (mostly in the primary wake) at 27kft/M0.72, 32kft/M0.76&M0.80, and 38kft/M0.76&M0.80. The aircraft auto-pilot lateral axis was determined inop after takeoff. Other than that, the aircraft returned in good shape. Science instruments also did well. The project will take a day off from flying to enable science access and auto-pilot troubleshooting. | | |

Flight Hour Summary:

| | 178009 | 188007 |
|---------------------------------------|--------|--------|
| Flight Hours Approved in SOFRS | | 80 |
| Total Used | 0 | 76.6 |
| Total Remaining | | 3.4 |

188007 Flight Reports

| Date | Flt # | Purpose of Flight | Duration | Running Total | Hours Remaining | Miles Flown |
|-------------------------------------|-------|-------------------|----------|---------------|-----------------|-------------|
| 01/09/18 | 1235 | Check | 3.1 | 3.1 | 76.9 | |
| 01/10/18 - 01/11/18 | 1237 | Science | 5.2 | 8.3 | 71.7 | |
| 01/13/18 - 01/14/18 | 1238 | Science | 10.7 | 19 | 61 | |
| 01/17/18 | 1239 | Science | 4.8 | 23.8 | 56.2 | |
| 01/19/18 | 1240 | Science | 5.5 | 29.3 | 50.7 | |
| 01/23/18 | 1241 | Science | 4.9 | 34.2 | 45.8 | |
| 01/24/18 | 1242 | Science | 6.1 | 40.3 | 39.7 | |
| 01/29/18 | 1243 | Science | 6.2 | 46.5 | 33.5 | |
| 01/30/18 | 1244 | Science | 5.9 | 52.4 | 27.6 | |
| 01/31/18 | 1245 | Science | 5.6 | 58 | 22 | |
| 02/01/18 | 1246 | Science | 5.2 | 63.2 | 16.8 | |
| 02/03/18 | 1247 | Transit | 10.9 | 74.1 | 5.9 | |
| 02/04/18 | 1248 | Transit | 2.5 | 76.6 | 3.4 | |

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NASA Official: Bruce A. Tagg

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.
