

SIERRA 09/05/12

Aircraft:

SIERRA - ARC ([See full schedule](#))

Flight Number:

70

Payload Configuration:

Surprise Valley Magnetometer

Nav Data Collected:

No

Total Flight Time:

3.9 hours

Submitted by:

Mark Sumich on 09/05/12

Flight Segments:

| | | | |
|---------------------------|--|----------------|------------------|
| From: | Cedarville, CA | To: | Cedarville, CA |
| Start: | 09/05/12 14:57 Z | Finish: | 09/05/12 18:49 Z |
| Flight Time: | 3.9 hours | | |
| Log Number: | 12R010 | PI: | Jonathan Glen |
| Funding Source: | Thomas Wagner - NASA - SMD - ESD Cryosphere & International Polar Year | | |
| Purpose of Flight: | Science | | |
| Comments: | The cessation of data from the magnetometer was traced to its data rate exceeding the capability of the data system (buffer overrun). The system was reconfigured and SIERRA was wheels up before 0800. Chase joined for a completion of the perimeter flight plan and then went on to finish the north transects at a higher airspeed of 60 kts which was more compatible with the performance characteristics of the manned aircraft. Fuel in both aircraft remained, so the north detail grid and larger compensation box were also completed. This was a very successful data collection flight. | | |

Flight Hour Summary:

| | 12R010 |
|---------------------------------------|--------|
| Flight Hours Approved in SOFRS | 20 |
| Total Used | 15.32 |
| Total Remaining | 4.68 |

12R010 Flight Reports

| Date | Flt # | Purpose of Flight | Duration | Running Total | Hours Remaining | Miles Flown |
|--------------------------|-------|-------------------|----------|---------------|-----------------|-------------|
| 05/01/12 | 64 | Check | 0.7 | 0.7 | 19.3 | |
| 05/01/12 | 65 | Check | 0.92 | 1.62 | 18.38 | |
| 09/01/12 | 67 | Check | 1.3 | 2.92 | 17.08 | |
| 09/02/12 | 68 | Science | 3.1 | 6.02 | 13.98 | |
| 09/04/12 | 69 | Science | 1.4 | 7.42 | 12.58 | |
| 09/05/12 | 70 | Science | 3.9 | 11.32 | 8.68 | |
| 09/06/12 | 71 | Science | 4 | 15.32 | 4.68 | |

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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