

DCOTSS - ER-2 - AFRC #809 07/23/21 Science Report

Aircraft: [ER-2 - AFRC #809](#) ([See full schedule](#))

Date: Friday, July 23, 2021

Mission: DCOTSS

Mission Location: Salina, KS

Mission Summary:

Research flight 3

Submitted by: Kenneth Bowman on 07/30/21

File:

 [DCOTSS Science Flight Summary Report RF03 2021-07-23.pdf](#)

Related Flight Report:

ER-2 - AFRC #809 07/23/21

NOTE: All flight reports will be archived as NASA public data in the DAAC.

Flight Number: 21-9059

Payload Configuration: AWAS, DPOPS, HAL, HWV, HUPCRS, ROZE, CAFÉ, CANOE, WI-ICOS, MMS, PALMS, UCATS, AVS Cam

Nav Data Collected: Yes

Total Flight Time: 6.7 hours

Comments: This was the third science flight from SLN for the DCOTSS campaign. Take off occurred 0853 local. Ground ops went very well. Initial climb out FL620; instrument panel was good; had no issue with ATC to descend to FL400; flew as planned for all maneuvers and points. Thin cirrus clouds at FL400, otherwise no clouds, but hazy through most of flight. Some light chop around FL400, otherwise no turbulence. Leveled off around FL012 for 10 minutes to reduce moisture on instruments. Landed 1535 local. Greg Nelson was the pilot.

Submitted by: Fran Becker on 07/23/21

Flight Segments:

From:	SLN	To:	SLN
Start:	07/23/21 13:53 Z	Finish:	07/23/21 20:35 Z
Flight Time:	6.7 hours		
Log Number:	212002	PI:	Kenneth Bowman
Funding Source:	Barry Lefer - NASA - SMD - ESD Earth Venture Suborbital-3 Program		
Purpose of Flight:	Science		
Miles Flown:	2294 miles		

Flight Hour Summary:

	212002
Flight Hours Approved in SOFRS	166
Total Used	97.5
Total Remaining	68.5

212002 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
06/09/21	21-9046	Check	4.1	4.1	161.9	1268
06/14/21	21-9047	Check	3.8	7.9	158.1	0
06/17/21	21-9048	Science	6.2	14.1	151.9	0
07/12/21	21-9056	Transit	3.2	17.3	148.7	0
07/16/21	21-9057	Science	8	25.3	140.7	2883
07/20/21	21-9058	Science	7.2	32.5	133.5	2400

07/23/21	21-9059	Science	6.7	39.2	126.8	2294
07/26/21	21-9060	Science	6.3	45.5	120.5	1952
07/29/21	21-9061	Science	7.6	53.1	112.9	2628
08/02/21	21-9062	Science	6.7	59.8	106.2	2670
08/06/21	21-9065	Science	5.7	65.5	100.5	2271
08/10/21	21-9066	Science	7.7	73.2	92.8	2542
08/14/21	21-9067	Science	7	80.2	85.8	2564
08/17/21	21-9068	Science	6.8	87	79	2275
08/19/21	21-9069	Science	7.1	94.1	71.9	2373
08/23/21	21-9070	Transit	3.4	97.5	68.5	0

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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