

DCOTSS - ER-2 - AFRC #809 08/06/21 - 08/07/21 Science Report

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

Date: Friday, August 6, 2021 - Saturday, August 7, 2021

Mission: DCOTSS

Mission Location: Salina, KS

Mission Summary:

Research flight

Submitted by: Kenneth Bowman on 08/12/21

File:

 [DCOTSS Science Flight Summary Report RF07 2021-08-06.pdf](#)

Related Flight Report:

ER-2 - AFRC #809 08/06/21

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

Flight Number: 21-9065

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

Nav Data Collected: Yes

Total Flight Time: 5.7 hours

Submitted by: Brian Hobbs on 08/07/21

Flight Segments:

From:	SLN	To:	SLN
Date:	08/06/21		
Flight Time:	5.7 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:	2271 miles		
Comments:	This was the seventh science flight from SLN for the DCOTSS campaign. Take off occurred 1813L local. An issue with the HAL instrument resulted in a 75-minute delay in takeoff. The flight plan was revised to maintain time-on-target for the sunset data collection between P3-P4-P3. HAL L1-FL came on during taxi out. After several resets in-flight, the instrument operated nominally the rest of the mission. Completed east-west sunset passes over South Dakota and Minnesota. Conducted MMS maneuver at maximum altitude and spiral maneuver over airfield prior to landing. Landed 2353 local. Tim Williams was the pilot.		

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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