

DCOTSS - ER-2 - AFRC #809 08/02/21 Science Report

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

Date: Monday, August 2, 2021

Mission: DCOTSS

Mission Location: Salina, KS

Mission Summary:

Research flight 6

Submitted by: Kenneth Bowman on 08/12/21

File:

 [DCOTSS Science Flight Summary Report RF06 2021-08-02.pdf](#)

Related Flight Report:

ER-2 - AFRC #809 08/02/21

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

Flight Number: 21-9062

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

Submitted by: Brian Hobbs on 08/02/21

Flight Segments:

From:	SLN	To:	SLN
Date:	08/02/21		
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:	2670 miles		
Comments:	This was the sixth science flight from SLN for the DCOTSS campaign. Take off occurred 0854 local. Ground ops went very well which allowed an early takeoff. Initial climb out FL520; instrument panel was good; performed "NASCAR" racetracks over south-east Texas and Gulf Coast. Momentary Q6 FL at P2. Completed MMS maneuver at FL620. N3 FL after P3; ran fail checklist twice with no recovery. Light chop climbing through FL620. Lots of thunderstorms plume visible all day. Landed 1536 local. Gary Toroni 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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