

ER-2 #809 04/06/17

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

Flight Number: 17-9023

Payload Configuration: AVIRIS-NG, CPL, CRS, EXTRAD, FECS, GCAS, LIP, S-HIS

Nav Data Collected: Yes

Total Flight Time: 3.8 hours

Comments: It was agreed by the respective Instrument PIs, that because this was an additional engineering/calibration flight, the flight hours would be charged to the instrument flight requests that were being evaluated instead of the GOES-R flight request.

Submitted by: Kevin Walsh on 04/11/17

Flight Segments:

From:	PMD	To:	PMD
Start:	04/06/17 16:27 Z	Finish:	04/06/17 20:15 Z
Log Number:	172009	PI:	Francis Padula
Funding Source:	Steven Goodman - NOAA - GOES-R Program Senior Scientist		
Purpose of Flight:	Check		
Comments:	The purpose of this flight was to conduct an engineering/calibration of 3 instruments: cold soak the CPL instrument for 2.5 hours; fly calibration lines for the FECS instrument; and fly calibration lines over Ivanpah for the AVIRIS-C instrument.		

From:	PMD	To:	PMD
Start:	04/06/17 16:27 Z	Finish:	04/06/17 18:45 Z
Flight Time:	2.3 hours		
Log Number:	172035	PI:	Matthew McGill
Funding Source:	Charles Trepte - NASA - SMD - ESD CALIPSO Project Scientist		
Purpose of Flight:	Check		
Comments:	Conduct a cold soak of the CPL instrument before the GOES-R deployment to Warner Robbins, GA. During the post flight de-brief meeting, the CPL scientist said that the CPL data looked good based on real-time data.		

From:	PMD	To:	PMD
Start:	04/06/17 18:45 Z	Finish:	04/06/17 19:45 Z
Flight Time:	1 hours		
Log Number:	172022 - Completed as of this flight.	PI:	Richard Blakeslee
Funding Source:	Steven Goodman - NOAA - GOES-R Program Senior Scientist		
Purpose of Flight:	Check		
Comments:	Fly calibration lines for the FECS instrument before the GOES-R deployment to Warner Robbins, GA. The lines consisted of 10 minute runs at 50k, 40k, 30k, 20k, and 10k feet. The 40k foot line was cut short at 7 minutes because of clouds.		

From:	PMD	To:	PMD
Start:	04/06/17 19:45 Z	Finish:	04/06/17 20:15 Z
Flight Time:	0.5 hours		
Log Number:	172033	PI:	Robert Green
Funding Source:	Diane Wickland - NASA - SMD - ESD Terrestrial Ecology		
Purpose of Flight:	Check		
Comments:	Conducted flight lines over the Ivanpah calibration ground site. During the first 3 passes of the Ivanpah calibration site, the cloud coverage was 50%. The last 2 passes, 0% cloud coverage (sky clear).		

Flight Hour Summary:

	162009	172009
Flight Hours Approved in SOFRS		100

Total Used	0	103.9
Total Remaining		-3.9

172009 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
12/19/16	17-6007	Check	0.5	0.5	99.5	
03/21/17	17-9020	Check	4.9	5.4	94.6	
03/23/17	17-9021	Science	5.7	11.1	88.9	
03/28/17	17-9022	Science	6.4	17.5	82.5	
04/06/17	17-9023	Check	0	17.5	82.5	
04/11/17	17-9024	Transit	4.7	22.2	77.8	
04/13/17	17-9025	Science	3.9	26.1	73.9	
04/16/17	17-9026	Science	7.8	33.9	66.1	
04/18/17	17-9027	Science	6.2	40.1	59.9	
04/20/17 - 04/21/17	17-9028	Science	7	47.1	52.9	
04/22/17 - 04/23/17	17-9029	Science	5.9	53	47	
04/27/17	17-9030	Science	5.3	58.3	41.7	
04/29/17	17-9031	Science	7.9	66.2	33.8	
05/07/17	17-9032	Science	5.4	71.6	28.4	
05/08/17	17-9033	Science	9	80.6	19.4	
05/12/17	17-9034	Science	7.7	88.3	11.7	
05/14/17	17-9035	Science	7.8	96.1	3.9	
05/17/17	17-9036	Transit	7.8	103.9	-3.9	

172035 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
04/06/17	17-9023	Check	2.3	2.3	4.5	

172022 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
11/08/16	17-9004	Check	1.2	1.2	10.8	
11/14/16	17-9005	Check	3.2	4.4	7.6	
04/06/17	17-9023	Check	1	5.4	6.6	

172033 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
04/06/17	17-9023	Check	0.5	0.5	14.2	

162020 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
10/30/15	16-9010	Check	1.9	1.9	26.5	
10/30/15	16-9012	Science	4.2	6.1	22.3	
01/12/16	16-9031	Science	3.2	9.3	19.1	
01/14/16	16-9035	Science	2.4	11.7	16.7	
02/09/16	16-9039	Science	2	13.7	14.7	

152015 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
11/07/14	15-6004	Science	3	3	30.2	
04/21/15	15-9034	Check	1.8	4.8	28.4	

Source URL: https://airbornescience.nasa.gov/flight_reports/ER-2_809_04_06_17#comment-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.

142019 Flight Reports						
Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
08/18/14 - 08/19/14	14-9038	Science	7.8	7.8	3.2	
			142019	152015	162020	172033
Flight Hours Approved in SOFRS			11	30		
Flight Hours Previously Approved				3.2	28.4	14.7
Total Used			7.8	4.8	13.7	0.5
Total Remaining						14.2

			162029	172022
Flight Hours Approved in SOFRS			12	
Flight Hours Previously Approved				12
Total Used			0	5.4
Total Remaining				6.6

152034 Flight Reports						
Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
08/06/15	15-6044	Check	2.1	2.1	40.9	
08/07/15	15-6045	Science	6.5	8.6	34.4	
08/11/15 - 08/12/15	15-6046	Science	6	14.6	28.4	
08/12/15 - 08/13/15	15-6047	Science	6	20.6	22.4	
08/14/15	15-6048	Science	2.6	23.2	19.8	
08/18/15	15-6049	Science	5.8	29	14	
08/19/15	15-6050	Science	3.7	32.7	10.3	
08/20/15	15-6051	Science	3.5	36.2	6.8	
			152034	162025	172035	
Flight Hours Approved in SOFRS			43			
Flight Hours Previously Approved				6.8	6.8	
Total Used			36.2	0	2.3	
Total Remaining						4.5