ER-2 #806 04/14/17

Aircraft: ER-2 - AFRC #806 (See full schedule)
Flight Number: 17-6033
Payload Configuration: Solar Cell (PV) Instrument
Nav Data Collected: Yes
Total Flight Time: 1.9 hours
Comments: Takeoff at 1833 GMT; landing at 2029 GMT for a 1.9 hour mission. The pilot didn't have any issues with the PV instrument. As for the previous flight, the pilot took off a little early and burned some time to get to the target at the scheduled time. After turning onto the target line, the pilot noticed that the sun-sight dot was already centered so he started the data run early at 70,000 feet. The pilot commented that he was more patient keeping the sun-sight dot centered. Sometimes it would start drifting away from center but would move back toward center on its own. The ER-2 pitch angle at the start of the line was -1.5 deg. Toward the end of the line the pitch angle was -2.5 deg. At the end of the line the altitude was 55,000 feet. The pilot commented that he was able to keep the sun-sight dot very close to center during the entire data line. Matt Myers, the PV PI, was very happy about the "bonus" delta altitude. After the flight, Matt verified that he recorded good data. Today's flight was very successful. Matt Myers sent an email after the de-brief saying that the data looks fantastic, sun pointing was even better than Wednesday. Some cells showed no dropouts at all. Dean "Gucci" Neeley was the pilot.
Submitted by: Kevin Walsh on 04/14/17
Flight Segments:

From:	Palmdale, CA	**To:**	Palmdale, CA
Start:	04/14/17 18:33 Z	**Finish:**	04/14/17 20:29 Z
Flight Time:	1.9 hours		
Log Number:	172026	**PI:**	Matthew Myers
Funding Source:	Michael Piszczor - NASA - GRC - CODE LEX Branch Chief		
Purpose of Flight:	Science		
Comments:	The purpose of the second FY17 flight of the solar cell (PV) instrument was to fly near 70,000 feet at solar noon. The data obtained will help standardize the measurement of solar cell performance for future space applications.		

Flight Hour Summary:

	162033	172026
Flight Hours Approved in SOFRS	8.6	6
Flight Hours Previously Approved		3.2
Total Used	5.4	10.8
Total Remaining		-1.6

172026 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
04/12/17	17-6032	Science	2.2	2.2	7	
04/14/17	17-6033	Science	1.9	4.1	5.1	
05/09/17	17-6035	Science	2.1	6.2	3	
05/11/17	17-6036	Science	1.4	7.6	1.6	
05/12/17	17-6037	Science	1.8	9.4	-0.2	
05/15/17	17-6038	Science	1.4	10.8	-1.6	

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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.

162033 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown

05/23/16	16-6022	Science	1.8	1.8	6.8
05/24/16	16-6023	Science	1.8	3.6	5
05/25/16	16-6024	Science	1.8	5.4	3.2