

ORACLES - ER-2 #809 07/28/16 - 09/29/16 Science Report

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

Date: Thursday, July 28, 2016 - Thursday, September 29, 2016

Mission: ORACLES

Mission Location: Palmdale CA and Walvis Bay Namibia

Mission Summary:

See attached pdf file for reports

Submitted by: Richard Ferrare on 10/27/16

File:

 [ORACLES ER2 flight summaries.pdf](#)

Related Flight Report:

ER-2 #809 07/28/16

Flight Number: 16-9048

Payload Configuration: ORACLES - AirMSPI, HSRL-2, SSFR, RSP, eMAS, APS

Nav Data Collected: Yes

Total Flight Time: 4.1 hours

Comments: Flew two passes of Ivanpah Playa (Railroad Valley) in Nevada. Then flew over Lake Tahoe and down coast from San Francisco over Monterey and cut inland around Cambria to fly over Bakersfield AERONET site. Also flew over the Soberanes and Sand fires, both of which erupted on Friday. The eMAS controller kept tripping off early in the flight – multiple resets by the pilot did not fix the problem. All other instruments working as expected.

Archive Data: [20160728](#) (1 archive (plain-text) file; 15 binary files)

Submitted by: Ken Norlin on 07/28/16

Flight Segments:

From:	PMD	To:	PMD
Start:	07/28/16 16:18 Z	Finish:	07/28/16 20:26 Z
Flight Time:	4.1 hours		
Log Number:	162008	PI:	Jens Redemann
Funding Source:	Hal Maring - NASA - SMD - ESD Radiation Science Program		
Purpose of Flight:	Check		

Flight Hour Summary:

	162008	172025
Flight Hours Approved in SOFRS	142	
Flight Hours Previously Approved		21
Total Used	121	17.9
Total Remaining		3.1

172025 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
10/03/16	17-9001	Transit	9.7	9.7	11.3	
10/06/16	17-9002	Transit	4.9	14.6	6.4	
10/27/16	17-9003	Science	3.3	17.9	3.1	

Source URL: https://airbornescience.nasa.gov/science_reports/ORACLES_-_ER-2_809_07_28_16_-_09_29_16_Science_Report#comment-0

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Page Editor: Brad Bulger

NASA Official: Bruce A. Tagg

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.

162008 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
07/28/16	16-9048	Check	4.1	4.1	137.9	
08/03/16	16-9049	Check	4.1	8.2	133.8	
08/19/16	16-9050	Transit	5	13.2	128.8	
08/23/16	16-9051	Transit	10.5	23.7	118.3	
08/26/16	16-9052	Transit	7.9	31.6	110.4	
09/10/16	16-9053	Science	6.3	37.9	104.1	
09/12/16	16-9054	Science	8.7	46.6	95.4	
09/14/16	16-9055	Science	8.1	54.7	87.3	
09/17/16	16-9056	Science	7.7	62.4	79.6	
09/18/16	16-9057	Science	8.5	70.9	71.1	
09/20/16	16-9058	Science	7.7	78.6	63.4	
09/22/16	16-9059	Science	7.9	86.5	55.5	
09/24/16	16-9060	Science	8	94.5	47.5	
09/25/16	16-9061	Science	8.7	103.2	38.8	
09/27/16	16-9062	Science	9.2	112.4	29.6	
09/29/16	16-9063	Transit	8.6	121	21	