

ORACLES - P-3 Orion - WFF 09/24/16 Science Report

Aircraft: [P-3 Orion - WFF \(See full schedule\)](#)

Date: Saturday, September 24, 2016

Mission: ORACLES

Mission Summary:

This was a coastal flight, going farther north (to 8 S) than any other ORACLES 2016 flight. We went along 11 E to sample an intense young plume forecast by WRF. We did find the plume, and this flight will be very useful for aerosol properties in the FT. The MBL was complicated by the presence of 2 or 3 layers of cloud, and we encountered intermediate-level clouds high in the plume. These complicate the radiation measurements as well as the FT/MBL exchange.

Submitted by: Steven Howell on 09/16/19

File:

 [PRF12_20160924_Report_SGH.pdf](#)

Related Flight Report:

P-3 Orion - WFF 09/24/16

Flight Number: ORACLES Science flight #12

Payload Configuration: ORACLES

Nav Data Collected: No

Total Flight Time: 9.2 hours

Archive Data: [20160924](#) (157 binary files; 24 archive (plain-text) files)

Submitted by: Cate Easmunt on 09/26/16

Flight Segments:

From:	FYWB	To:	FYWB
Start:	09/24/16 06:37 Z	Finish:	09/24/16 15:51 Z
Flight Time:	9.2 hours		
Log Number:	16P001	PI:	Jens Redemann
Funding Source:	Hal Maring - NASA - SMD - ESD Radiation Science Program		
Purpose of Flight:	Science		

Flight Hour Summary:

	16P001
Flight Hours Approved in SOFRS	160
Total Used	155
Total Remaining	5

16P001 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
07/31/16	ATF #1	Check	1.2	1.2	158.8	
08/02/16	PTF #1	Check	2.8	4	156	
08/05/16	PTF #2	Check	3.9	7.9	152.1	
08/12/16	ATF #2	Check	0.8	8.7	151.3	
08/24/16	Transit Flight #1	Transit	6	14.7	145.3	
08/25/16	Transit Flight #2	Transit	9.7	24.4	135.6	
08/27/16	Transit Flight #3	Transit	6.8	31.2	128.8	
08/30/16	ORACLES Science flight #1	Science	1.6	32.8	127.2	
08/31/16	ORACLES Science flight #2	Science	8.1	40.9	119.1	

09/02/16	ORACLES Science flight #3	Science	8.1	49	111
09/04/16	ORACLES Science flight #4	Science	8	57	103
09/06/16	ORACLES Science flight #5	Science	8	65	95
09/08/16	ORACLES Science flight #6	Science	8.1	73.1	86.9
09/10/16	ORACLES Science flight #7	Science	8.1	81.2	78.8
09/12/16	ORACLES Science flight #8	Science	8.4	89.6	70.4
09/14/16	ORACLES Science flight #9	Science	8.1	97.7	62.3
09/18/16	ORACLES Science flight #10	Science	8.2	105.9	54.1
09/20/16	ORACLES Science flight #11	Science	8.4	114.3	45.7
09/24/16	ORACLES Science flight #12	Science	9.2	123.5	36.5
09/25/16	ORACLES Science flight #13	Science	8.8	132.3	27.7
09/27/16	Return Transit #1	Transit	7.3	139.6	20.4
09/29/16	Return Transit #2	Transit	9.2	148.8	11.2
09/30/16	Return Transit #3	Transit	5.5	154.3	5.7
09/30/16	Return Transit #4	Transit	0.7	155	5

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.

Page Last Updated: April 22, 2017

Page Editor: Brad Bulger

NASA Official: Marilyn Vasques

Source URL: https://espo.nasa.gov/oracles/science_reports/ORACLES_-_P-3_Orion_-_WFF_09_24_16_Science_Report#comment-0