

P-3 Orion - WFF 09/24/16

Aircraft:

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

Flight Number:

ORACLES Science flight #12

Payload Configuration:

ORACLES

Nav Data Collected:

No

Archive Data:

[20160924](#) (154 binary files; 23 archive (plain-text) files)

Total Flight Time:

9.2 hours

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.

Related Science Report:

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

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.

File:

[PRF12_20160924_Report_SGH.pdf](#)

Submitted by:

Steven Howell on 09/16/19

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