

P-3 Orion - WFF 09/27/18

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

Flight Number: ORACLES Science Flight #1

Payload Configuration: ORACLES

Nav Data Collected: No

Archive Data: [20180927](#) (93 binary files; 24 archive (plain-text) files; 40 image files)

Total Flight Time: 8 hours

Submitted by: Mike Cropper on 09/27/18

Flight Segments:

From:	FPST	To:	FPST
Start:	09/27/18 08:05 Z	Finish:	09/27/18 16:05 Z
Flight Time:	8 hours		
Log Number:	18P004	PI:	Jens Redemann
Funding Source:	Hal Maring - NASA - SMD - ESD Radiation Science Program		
Purpose of Flight:	Science		
Miles Flown:	1875 miles		

Flight Hour Summary:

	18P004	19P018
Flight Hours Approved in SOFRS	188.5	
Flight Hours Previously Approved		144
Total Used	44.5	110
Total Remaining		34

19P018 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
10/02/18	ORACLES Science Flight #3	Science	8.5	8.5	135.5	1940
10/03/18	ORACLES Science Flight #4	Science	8.5	17	127	1970
10/05/18	ORACLES Science Flight #5	Science	9	26	118	2000
10/07/18	ORACLES Science Flight #6	Science	8.4	34.4	109.6	2000
10/10/18	ORACLES Science Flight #7	Science	8.3	42.7	101.3	1970
10/12/18	ORACLES Science Flight #8	Science	5.3	48	96	800
10/15/18	ORACLES Science Flight #9	Science	7.8	55.8	88.2	1700
10/17/18	ORACLES Science Flight #10	Science	8.5	64.3	79.7	2000
10/19/18	ORACLES Science Flight #11	Science	8	72.3	71.7	1800
10/21/18	ORACLES Science Flight #12	Science	8.2	80.5	63.5	1800
10/23/18	ORACLES Science Flight #13	Science	8.1	88.6	55.4	1800
10/25/18	ORACLES Transit #1	Transit	7.8	96.4	47.6	2009
10/26/18	ORACLES Transit #2	Transit	7	103.4	40.6	2100
10/27/18	ORACLES Transit #3	Transit	5.8	109.2	34.8	1692

Source URL: https://espoarchive.nasa.gov/flight_reports/P-3_Orion_-_WFF_09_27_18#comment-0

Page Last Updated: April 22, 2017

Page Editor: Katja Drdla

NASA Official: Marilyn Vasques

Related Science Report:

ORACLES - P-3 Orion - WFF 09/27/18 Science Report

Mission: ORACLES

Mission Summary:

Routine flight along 5E to 13S. High-altitude transit out, square spiral down at 13S, followed by 3 samples of the cloudy boundary layer on the way back north, the most northern one being at ~5S. some backtracking in the first 2 boundary layer modules. Strong aerosol layering south of 5S, fairly clean to the north. Little aerosol above the cloud. Used extra time at end to do a circuit around Sao Tome.

File:

 [Flight_Scientist_Report_PRF01Y18_27September.pdf](#)

Submitted by: Paquita Zuidema on 10/07/18

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.

18P004 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
09/17/18	ORACLES ATF	Check	1.3	1.3	187.2	0
09/19/18	ORACLES PTF	Check	3.7	5	183.5	0
09/21/18	ORACLES Transit #1	Transit	6.3	11.3	177.2	1716
09/22/18	ORACLES Transit #2	Transit	8.2	19.5	169	2131
09/24/18	ORACLES Transit #3/Science Flight	Transit	9.3	28.8	159.7	2500
09/27/18	ORACLES Science Flight #1	Science	8	36.8	151.7	1875
09/30/18	ORACLES Science Flight #2	Science	7.7	44.5	144	2400