

## P-3 Orion - WFF 09/18/16

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

Flight Number: ORACLES Science flight #10

Payload Configuration: ORACLES

Nav Data Collected: No

Archive Data: [20160918](#) (92 binary files; 24 archive (plain-text) files)

Total Flight Time: 8.2 hours

Submitted by: Cate Easmunt on 09/19/16

### Flight Segments:

<b>From:</b>	FYWB	<b>To:</b>	FYWB
<b>Start:</b>	09/18/16 06:57 Z	<b>Finish:</b>	09/18/16 15:07 Z
<b>Flight Time:</b>	8.2 hours		
<b>Log Number:</b>	<a href="#">16P001</a>	<b>PI:</b>	Jens Redemann
<b>Funding Source:</b>	Hal Maring - NASA - SMD - ESD Radiation Science Program		
<b>Purpose of Flight:</b>	Science		

### Flight Hour Summary:

	<b>16P001</b>
<b>Flight Hours Approved in SOFRS</b>	160
<b>Total Used</b>	155
<b>Total Remaining</b>	5

### 16P001 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">07/31/16</a>	ATF #1	Check	1.2	1.2	158.8	
<a href="#">08/02/16</a>	PTF #1	Check	2.8	4	156	
<a href="#">08/05/16</a>	PTF #2	Check	3.9	7.9	152.1	
<a href="#">08/12/16</a>	ATF #2	Check	0.8	8.7	151.3	
<a href="#">08/24/16</a>	Transit Flight #1	Transit	6	14.7	145.3	
<a href="#">08/25/16</a>	Transit Flight #2	Transit	9.7	24.4	135.6	
<a href="#">08/27/16</a>	Transit Flight #3	Transit	6.8	31.2	128.8	
<a href="#">08/30/16</a>	ORACLES Science flight #1	Science	1.6	32.8	127.2	
<a href="#">08/31/16</a>	ORACLES Science flight #2	Science	8.1	40.9	119.1	
<a href="#">09/02/16</a>	ORACLES Science flight #3	Science	8.1	49	111	
<a href="#">09/04/16</a>	ORACLES Science flight #4	Science	8	57	103	
<a href="#">09/06/16</a>	ORACLES Science flight #5	Science	8	65	95	
<a href="#">09/08/16</a>	ORACLES Science flight #6	Science	8.1	73.1	86.9	
<a href="#">09/10/16</a>	ORACLES Science flight #7	Science	8.1	81.2	78.8	
<a href="#">09/12/16</a>	ORACLES Science flight #8	Science	8.4	89.6	70.4	
<a href="#">09/14/16</a>	ORACLES Science flight #9	Science	8.1	97.7	62.3	
<a href="#">09/18/16</a>	ORACLES Science flight #10	Science	8.2	105.9	54.1	
<a href="#">09/20/16</a>	ORACLES Science flight #11	Science	8.4	114.3	45.7	

<a href="#">09/24/16</a>	ORACLES Science flight #12	Science	9.2	123.5	36.5
<a href="#">09/25/16</a>	ORACLES Science flight #13	Science	8.8	132.3	27.7
<a href="#">09/27/16</a>	Return Transit #1	Transit	7.3	139.6	20.4
<a href="#">09/29/16</a>	Return Transit #2	Transit	9.2	148.8	11.2
<a href="#">09/30/16</a>	Return Transit #3	Transit	5.5	154.3	5.7
<a href="#">09/30/16</a>	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 09/18/16 Science Report

**Mission:** ORACLES

**Mission Summary:**

Walvis Bay local flight aiming for youngest, densest plume we could reach. Flew essentially along the coast to a study region along 11.5 E, 10 S to 12 S. Coordinated with ER-2 for 3 overpasses. Found a high, young, dense biomass burning plume, underlain by an older BB plume directly atop a thin but pretty uniform stratocumulus cloud deck. Good opportunities to examine aging issues, mixing patterns, and compare ER-2 remote sensing with in-situ data.

**File:**

 [PRF10\\_20160918\\_Report\\_SGH.pdf](#)

**Submitted by:** Steven Howell on 09/03/19

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