

# POSIDON - WB-57 #927 10/28/16 Science Report

Aircraft: [WB-57 - JSC #927](#) ([See full schedule](#))

Date: Friday, October 28, 2016

Mission: POSIDON

Mission Location: Guam

Mission Summary:

This flight provided additional measurements of TTL cirrus downstream of deep convection and additional characterization of the western Pacific ozone distribution in the upper troposphere. The highlight of the flight was detection of SO<sub>2</sub> enhancements in the TTL near the southern end of the flight track from volcanic emissions in the area.

Submitted by: Susan Kimi McFadden on 11/11/16

File:

 [POSIDON\\_RF09\\_report.pdf](#)

Related Flight Report:

## WB-57 #927 10/28/16

Flight Number: 16

Payload Configuration: POSIDON

Nav Data Collected: No

Total Flight Time: 5.4 hours

Archive Data: [20161028](#) (12 archive (plain-text) files; 545 image files)

Submitted by: Debra Willett on 10/28/16

Flight Segments:

<b>From:</b>	PGUM	<b>To:</b>	PGUM
<b>Start:</b>	10/28/16 11:08 Z	<b>Finish:</b>	10/28/16 16:33 Z
<b>Flight Time:</b>	5.4 hours		
<b>Log Number:</b>	<a href="#">17W003</a>	<b>PI:</b>	Eric Jensen
<b>Funding Source:</b>	Ken Jucks - NASA - SMD - ESD Upper Atmosphere Research Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Payloads: MMS, DLH, CPI, 2DS, SO2, H2O, POPS, WAS, PANTHER AND 03 LITE. SATCOM type was INMARSAT. High flight. This sortie was flown to the south to sample volcanic sulfur gas distribution to the tropopause. Vertical profiles between 43000' and 57000' MSL were accomplished. The mission was completely successful.		

Flight Hour Summary:

	16W007	17W003
<b>Flight Hours Approved in SOFRS</b>	58	42
<b>Flight Hours Previously Approved</b>		50.5
<b>Total Used</b>	7.5	90.3
<b>Total Remaining</b>		2.2

17W003 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">10/01/16</a>	3	Ferry	4.4	4.4	88.1	
<a href="#">10/02/16</a>	4	Ferry	5.7	10.1	82.4	
<a href="#">10/03/16</a>	5	Ferry	5.9	16	76.5	
<a href="#">10/09/16</a>	6	Ferry	4.2	20.2	72.3	
<a href="#">10/12/16</a>	7	Science	5.7	25.9	66.6	
<a href="#">10/14/16</a>	8	Science	5.3	31.2	61.3	

<a href="#">10/15/16</a>	9	Science	4.8	36	56.5
<a href="#">10/18/16</a>	10	Science	5.7	41.7	50.8
<a href="#">10/19/16</a>	11	Science	5.7	47.4	45.1
<a href="#">10/21/16</a>	12	Science	5.6	53	39.5
<a href="#">10/24/16</a>	13	Check	1.3	54.3	38.2
<a href="#">10/25/16</a>	14	Science	4.5	58.8	33.7
<a href="#">10/26/16</a>	15	Science	5.5	64.3	28.2
<a href="#">10/28/16</a>	16	Science	5.4	69.7	22.8
<a href="#">10/31/16</a>	17	Ferry	5.2	74.9	17.6
<a href="#">11/01/16</a>	18	Ferry	5.9	80.8	11.7
<a href="#">11/02/16</a>	19	Ferry	5.6	86.4	6.1
<a href="#">11/03/16</a>	20	Ferry	3.9	90.3	2.2

**Source URL:** [https://airbornescience.nasa.gov/science\\_reports/POSIDON\\_-\\_WB-57\\_927\\_10\\_28\\_16\\_Science\\_Report#comment-0](https://airbornescience.nasa.gov/science_reports/POSIDON_-_WB-57_927_10_28_16_Science_Report#comment-0)

Page Last Updated: April 22, 2017

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.*

#### 16W007 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">09/13/16</a>	1	Science	2.1	2.1	55.9	
<a href="#">09/15/16</a>	2	Science	5.4	7.5	50.5	