

POSIDON - WB-57 #927 10/15/16 Science Report

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

Date: Saturday, October 15, 2016

Mission: POSIDON

Mission Location: Guam

Mission Summary:

This flight provided an ideal opportunity to sample gases and clouds detrained from a tropical cyclone. The WB-57 profiled through the TTL throughout the flight, sampling cirrus just downstream of convection extending well above 50 kft and through thin cirrus up to the tropopause. Instruments performed well.

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

File:

 [POSIDON_RF03_report.pdf](#)

Related Flight Report:

WB-57 #927 10/15/16

Flight Number: 9

Payload Configuration: POSIDON

Nav Data Collected: No

Total Flight Time: 4.8 hours

Archive Data: [20161015](#) (12 archive (plain-text) files; 186 image files)

Submitted by: Jasmine Gasca on 10/21/16

Flight Segments:

From:	PGUM	To:	PGUM
Start:	10/15/16 10:12 Z	Finish:	10/15/16 15:00 Z
Flight Time:	4.8 hours		
Log Number:	17W003	PI:	Eric Jensen
Funding Source:	Ken Jucks - NASA - SMD - ESD Upper Atmosphere Research Program		
Purpose of Flight:	Science		
Comments:	Payloads: MMS, DLH, CPI, 2DS, SO2, H2O, POPS, WAS, PANTHER AND 03 LITE. SATCOM type was INMARSAT. High flight. The mission flew approx. 250 nmi southwest of Guam and sampled outflow from TS Haima using several racetrack patterns prior to returning to Guam. A repeating climb/descend profile was executed during the mission.		

Flight Hour Summary:

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

17W003 Flight Reports

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

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

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Page Last Updated: April 22, 2017

Page Editor: Brad Bulger

NASA Official: Marilyn Vasques

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
09/13/16	1	Science	2.1	2.1	55.9	
09/15/16	2	Science	5.4	7.5	50.5	