

BARBADOS 56 m ele.

U.S. Dep't. of Commerce / OMAO / NOAA / Aircraft Operations Center

FLT ID: 20170920N1	From: TBFB	To: TBFB
FLT #:	Blk In: 0158 Z	Lnd Time: 0153 Z
ETD: 1730 Z	Blk Out: 1712 Z	T/O Time: 1739 Z
ETE: 8+00	Total Blk: 8.7	Total Flt: 8.2
Sponsoring Org: NHC	Program: PHS	Purpose: MARIA

AOC Flight Crew

Aircraft Commander: MacIntyre	SSA: DEFEO
Co-Pilot: Fritzier	AVAPS: Underwood/Warnecke
Navigator: /	Scientists:
Flight Eng: /	Scientists:
Flt Director: Belson Henning	Scientists:
SEB: GREENE	Scientists:
Crew Chief:	Visitors: / /

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	#2 1006.8	31°C 1012 mb STA 1005.8	#2 1008.1	28°C 1013 mb STA 1006.8

AS REQUIRED BY ORM	YES / NO	REMARKS
VOLCANIC ASH		
SCIENCE MISSION WITHIN BOUNDARY LAYER		
LACK OF PRECIPITATION		
RELATIVE HUMIDITY AT OR ABOVE 80%		
LARGE AIR-SEA TEMPERATURE GRADIENT		
HIGH SURFACE WINDS		
LONG FETCH AND/OR DURATION OF SFC WIND		
SEA SALT ACCRETION FORECAST		
SEA SALT ACCRETION OBSERVED		

Dropsondes	29	Good: 29	Bad: 0	Sent: 29
AXBT		Good:	Bad:	Sent:

List other data sources in Remarks section

Remarks (Storm VDM Identifier, Mission ID, Fix Times)	Fix #	VDM Ob Num	Fix Time / SLP
Storm Number Identifier (VDM): (ie: AL072012)			
TCPOD/WSPOD Mission ID: (ie: NOAA2 2418A SANDY)			

Remarks:

(jeah)

ES completed for 19M1

2439 Thrs
0139 8hrs

MYNN Nassam

56
12
44

716-1786 133.35
 (011) 537-6421185
 (011) 537-6497284

APPENDIX 2 – GIV QC Checklist

Flight ID:	20170920N1
Flight Director(s):	Henning / Belson

Pressure Comparison		
	T/O	Land
Aircraft	1006.8	1008.1
Tower	1005.8	1006.8

UWZ.d mean: +0.10 + 0.27

A file (First segment) B file (2nd segment)

	Raw 1Hz Mean File Parameters				C File Parameters	
Accelerometer	AccAXI.1	AccAYI.1	AccAZI.1		AccZref	
	AccAXI.2	AccAYI.2	AccAZI.2			
	AccAXI.3	AccAYI.3	AccAZI.3			
Altitude	AltGPS.1	AltI.1	AltPaADDU.1	AltBCADDU.1	ALTref	
	AltGPS.2	AltI.2	AltPaADDU.2	AltBCADDU.2	ALTPA.d	
	AltGPS.3	AltI.3	AltRA.1		ALTGA.d	
Ground Speed	GsXI-GPS.1	GsXI.1	GsGPS.1	GsXGPS.1	GSXref	
	GsXI-GPS.2	GsXI.2	GsGPS.2	GsXGPS.2	GSYref	
	GsYI-GPS.1	GsXI.3		GsYGPS.1	GSZref	
	GsYI-GPS.2	GsYI.1	GsZI.1	GsYGPS.2		
	GsZI-GPS.1	GsYI.2	GsZI.2	GsZGPS.1		
	GsZI-GPS.2	GsYI.3	GsZI.3	GsZGPS.2		
Lat/Lon	LatGPS.1	LatI.1	LonGPS.1	LonI.1	LATref	
	LatGPS.2	LatI.2	LonGPS.2	LonI.2	LONref	
	LatGPS.3		LonGPS.3			
Pressure	PDALPHA.1	PQALPHA.1	PQM.1	PSM.1	PDALPHaref	PQMref
	PDALPHA.2	PQALPHA.2	PQM.2	PSM.2	PDBETAref	PQ.c
	PDBETA.1	PQBETA.1	PQM.11	PSM.11	PQALPHaref	PSMref
	PDBETA.2	PQBETA.2			PQBETAref	PS.c
Air Speed	CasADDU.1	TasADDU.1	IasADDU.1		IAS.d	TAS.d
Pitch/Roll	PitchI.1	PitchRateI.1	RollI.1	RollRateI.1	PITCHref	
	PitchI.2	PitchRateI.2	RollI.2	RollRateI.2	ROLLref	
	PitchI.3	PitchRateI.3	RollI.3	RollRateI.3		
Temp/Dewpt	TTM.1	TTM.11	TDM.1		TD.c	TTMref
	TTM.2	TTM.13	TDM.2		TDMref	TA.d
	TTM.3	TTM.4	TDM.11			
Miscellaneous (must check)					UWZ.d	WS.d
					DPJ_WSZ	WD.d
					HUM	

Mission Documents:

<input checked="" type="checkbox"/>	Error Summary
<input checked="" type="checkbox"/>	Crew Manifest
<input checked="" type="checkbox"/>	QC checklist
<input checked="" type="checkbox"/>	Dropwindsonde Log(s) – AVAPS and FD if completed
<input type="checkbox"/>	Miscellaneous FD notes

NOTES:

UWZ difference between A file and B file
 AltRA.1 oscillation more pronounced than
 on IRMA/JOSE₁ missions (up to 160m amplitude)
 TDM.2 too dry near surface but better
 at ops altitude (supersaturation less than TDM1)

AOC GPS Dropwindsonde Log

 Flight ID: 20170920N1

 Flight Director: Henning / Belson

 Mission ID: 1015A

 Storm/Track: María

 Pg 25 of 500

Pt #	Ch. #	Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	Wx Cond.	SFC Prs (mb)	Ob #	L5/R5	Last Winds R5 (ht, ws, wd)	Last Winds L5 (ht, ws, wd)	Sent Time/KWBC (UTC)	
1	1	1	5017	1800	14.0	60.43	FEW	1012	1	R5	21, 2018	—	P S F	589
2	2	2	5148	1812	15.12	62.00	OVC	1012	2		13, 14519	101	P S F	589
3	3	3	5283	1826	16.23	63.10	OVC	1010	3		10, 16022	100	P S F	588
4	4	4	5053	1839	17.2	64.5	OVC	1007.6	4		8, 18025	099	P S F	586
5	1	5	5310	1848	16.27	65.14	OVC	1007.6	5		8, 19022	099	P S F	586
6	2	6	5186	1858	15.9	66.5	OVC	1007.7	6		13, 23526	099	P S F	586
7	3	7	5014	1909	15.9	67.8	OVC	1006.9	7		12, 26524	098	P S F	585
8	4	8	5082	1919	16.5	69.0	OVC	1007.2	8		7, 30518	098	P S F	585
9	1	9	5086	1944	17.5	72.0	OVC	1008.3	9		8, 26017	098	P S F	587
10	2	10	5009	1956	17.5	73.6	OVC	1009.1	10		9, 19006	099	P S F	588
11	3	11	5099	2006	17.6	74.8	OVC	1009.1	11		9, 35524	099	P S F	588
12	4	12	5020	2026	20.0	73.9	OVC	1011.3	12		11, 04517	098	P S F	588
13	1	13	5129	2041	22.0	74.0	SCT	1012.4	13		12, 05513	098	P S F	589
14	2	14	5116	2056	24.0	74.0	FEW	1013.4	14		13, 03511	096	P S F	589
15	3	15	5179	2110	25.9	73.9	OVC	1013.6	15		14, 09006	096	P S F	590
16	4	16	5103	2133	24.9	71.1	BKN	1014.0	16		14, 05517	099	P S F	590
L 17	5	17	5113	2151	23.0	71.0	CDO	1012.5	17		13, 04516	100	P S F	589
L 18	6	18	5235	2210	21.0	70.9	CDO	1010.3	18		10, 04017	100	P S F	587
L 19	7	19	5016	2222	20.3	69.7	CDO	1008.2	19		8, 02022	100	P S F	586
20	4	20	5106	2232	21.2	68.9	CDO	1009.2	20		13, 05033	099	P S F	586
21	1	21	5093	2242	21.8	67.9	CDO	1009.6	21		19, 06533	098	P S F	586
22	2	22	5048	2302	24.0	69.0	OVC	1013.0	22		13, 06518	100	P S F	590
23	3	23	5045	2317	26.0	68.8	OVC	1015.1	23		15, 07016	100	P S F	591
24	4	24	5063	2338	25.9	66.1	UNK	1014.8	24		15, 11015	101	P S F	591
L 25	5	25	5184	2354	24.0	66.0	UNK	1014.5	25		13, 09522	101	P S F	590
26	2	26	5096	0014	21.7	66.3	CDO	1010.5	26		10, 08532	100	P S F	588
27	3	27	5011	0024	21.3	65.1	CDO	1010.2	27		10, 10529	100	P S F	587
28	4	28	5162	0036	20.1	64.4	CDO	1011.0	28		11, 12024	102	P S F	589
LAST	1	29	5100	0047	18.8	64.1	CDO	1011.1	29		11, 13518	102	P S F	589

2017-09-20, 17:35:07-25:55:41

