N49RF ERROR SUMMARY NHC Hurricane IRMA Surveillance Mission 1411A

Flight ID: 20170906N1

Sensor or System	Number or Name
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.1
Dewpoint Temp. Probe	TDM.2
Vertical Accelerometer	AccZI.1
Altimeter	AltGPS.3
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.1
Differential Sideslip Pressure Probe	PDBETA.1
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure Probe	PQBETA.1

Flight Directory

acdata/2017/MET/20170906N1

Local	Met Data	Takeoff	TBPB	(1716Z)	Landing	KFLL	(0123Z)
	Dynamic Correction	ons			Υe	s	
	AttackAngleInter	cept			5.	1083	
	AttackAngleSlope				5.	91956	
	SlipAngleInterce	ot			1.	05	
	SlipAngleSlope				6.	80484	
	AttackAngleInter	cept2			5.	05312	
	AttackAngleSlope2	2			5	.74156	5
	SlipAngleInterce	ot2			0.	8	
	SlipAngleSlope2				6.	89644	

Notes:

There were no edits made in the measured parameters used to calculate meteorological and navigational parameters.

Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

TDM.2 is too dry at low altitude but is closer to TA.d at operational altitudes. TDM.1 is more accurate at low altitudes but far too moist at FL 410-450. TDM.2 is the reference.

AltRA.1 displays an oscillation but is not used for calculation of GA

Expendable Type	# deployed	# good	<pre># transmitted</pre>
Dropsondes	33	33	33
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Henning Phone #: (863) 500-3982

	U.S. Dep't. of Commerce / OMAO / N	IOAA / Aircraft Ope	erations Center	F 9	
	FLT ID: 20170906 ND From: TBF	>B	TO: KFLL	> KLA	L
	FLT#: Blk In: 0131	. z	Lnd Time:	23 z	
	ETD: 1730 z BIk Out: 1706	Z	T/O Time:	6 z	
	ETE: 8+00+30 Total Blk: 8.4	+	Total Flt:		
	Sponsoring Org: NHC Program: PH	5	Purpose: RM	A Syn Sur	·V
	AOC Fligh	t Crew			
	Aircraft Commander: TWINING	SSA:	EFEO		
	Co-Pilot: FRITZLER	AVAPS: DE	ELGADO		~
	Navigator: /	Scientists: 2N	UD LEG	0344	
	Flight Eng:	Scientists	block in-		0336
	FIT Director: HENNING/WILLIAMS	Scientists	blackout	0239 4/0_	0303
	SEB: GREENE PATAL	Scientists:		1.1	0.7
	Crew Chief: NEGRON Visitors: STA 100		TA 1013.5		Q
56 m	A/C - Takeoff Wx Station - Takeoff	A/C - La		Station - Land	4
50.	Pressure 21.88	REMARKS	21	.74 [8.1
	VOLCANIC ASH SCIENCE MISSION WITHIN BOUNDARY LAYER				
	LACK OF PRECIPITATION RELATIVE HUMIDITY AT OR ABOVE 80%	ALA			
	LARGE AIR-SEA TEMPERATURE GRADIENT HIGH SURFACE WINDS	1011			
	LONG FETCH AND/OR DURATION OF SFC WIND SEA SALT ACCRETION FORECAST				
	SEA SALT ACCRETION OBSERVED				
	Dropsondes Good: 33 Bad:	Sent:	33		
	AXBT Good: Bad:	Sent:		\$	
	Remarks (Storm VDM Identifier, Mission ID, Fix Times)		VDM Fix # Ob Num	Fix Time / SLP	,
	Storm Number Identifier (VDM):				
	(ie: AL072012)				
	TCPOD/WSPOD Mission ID: 14/1A/RMA (ie: NOAA2 2418A SANDY)				
	Remarks:				
	KFLE DY		F0.	X CONTRACTOR	
	10/15/0 20	09	1000		
	1646 852-111	n Legan	elle	2:05 pm	
	69999	ANOTE COUR	101	2 FUDT	
	chery one	Anderson Coup	30	11-26	
	NYCRESTON STREET	W ===	15-7620		
	1(201) 233	(212)2	13-1060		

APPENDIX 2 - GIV QC Checklist

Flight ID:	20170906N1	
Flight Director(s):	HENNING/WILL	AMS

Pressure Comparison

T/O Land

Aircraft 1007.2 1014.1

Tower 1005.5 1013.5

	Rav	w 1Hz Mean	C File Pa	arameters		
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	Alt1.2	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	Latl.1	LonGPS.1	Lonl.1	LATref	
_	LatGPS.2	Latl.2	LonGPS.2	Lon1.2	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	lasADDU.1		IAS.d	TAS.d
Pitch/Roll	PitchI.1	PitchRateI.1	RollI.1	RollRatel.1	PITCHref	
	PitchI.2	PitchRateI.2	RollI.2	RollRatel.2	ROLLref	
	PitchI.3	PitchRateI.3	RollI.3	RollRatel.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					UWZ.d	WS.d
(must check)					DPJ_WSZ	WD.d
					HUM	

Mission Do	ocuments:	
	Frror Summary	
	Crew Manifest	
	V QC checklist	
	Dropwindsonde Log(s) – AVAPS and FD if completed	
	Miscellaneous FD notes	
NOTES:	AltRA.1 Oscillation during operationa	1 cruise
	Tpm. Z better at operational altito toodry hear surface.	ide but

N49RF AOC GPS Dropwindsonde Log

Flight ID: 3017090612

Flight Director: Henring / Williams

Mission ID: NOAG 1411A (RMA

Storm/Track:

Pg ___ of ___

Drop #	Ob#	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°E)	Wx Cond.	L5/R5?	SFC Prs (mb)	Last Wind Alt (m)	Comments	Ch#	SatComm failures	KWBC#
1		163605/03	180500	14.5	-65	VLIS	RS	1008.7	10	245/14	1		1831
2	2	143215157	184045	17.5	-68.5	VCTS	25	1009.1	10	035/30	2		1901
3	3	143215/39	185234	16.64	-67.85	VUTS	25	1007	10	395/18	3		EG 1914
4	4	142845014	190324	161	-66.65		RC	1006.5	10	340/22	4		1935
5	5	143255036	191436	16,	-6526		P-5	1005	18	220415	1		1940
6	6	143245095	192518	16.73	-64		R5	1005.1	13	215/27	2	STAMISSING 70050	1954
7	7	142945003	193635	17,9	-63.3		25	1004.7	12	105/31	3		2017
8	0	143215150	194652	19.16	-63		15	100/27	12	115/40	4		2021
9	9	142625086	1956	2013	-63.3		RS	10079	10	095138	1		2025
10	10	140715076	2006	21.35	-64.15		PS	1009.8	10	083 35	9		2030
11		14284566	201554	21.8	-6535		RS	10105	10	07/35	3		2040
12	17	143425128	200542	21.9	-lda]		25	1009.9	12	065/88	4		2053
13	3	173215 173	203(2(, 3	-67.87		RT	10/1099	10	05027			2858
14	14	143255107	2046	20,5	-68.8		R-5-	100.1	10	035/19	2		2126
15	5	143215157	2101	21.96	- 70		R5	1012	10	065/16	3		2018
16	16	143245067	2117	93	-71.5		25	1011.1	10	085120	4		2133
17	17	143255767	2124	24	-73		RE	1011.7	16	080/17	1		2006
18	18	142745/18	2135	22	74.5		25	1011.7	0	100/14	2		2204
19	9	143745099	2154	24	-3.7		15	1010.8	10	100/12	3		2792
20	20	143245105	7204	24	-743		PS	100.6	10	100/18	4		2327
21	2	143255140	2214	24	72.99		25	1002.1	17)	095/16			2241
22	22	142615099	7225	24	-71.5		RS	1013.5	10	085/16	2		2318
23	23	14 2745131	2)37	24	~ 70		25	1013.6	(0)	090/17	3		2320
24	24	14274579	2248	24	-68.5		R5	1014.3	16	190 10	4		2324
25	25	142831058	2259	24,1	-67.1		P-5	10143	10	070/23			2327
26	76	141335096	2313	25,85	-67.1		R5	106.3	10	105/70	2		2335
27	27	1927 15063	2325	26	-60 5		R5	1959	10	100/20	3		0000
28	28	142735087	2338	26	-70		25	1015.)	10	110/15	4		0009
29	29	1477730810	2350	26	-71.5		P5	1015.7	10	115/10	17		006
30	30	143215171	6000	36	-73		P-5	104.4	20	18/15	2		0007
31	31	140715032	0014	26	-74.5		25	1014.5	10	145/10	3		0038
39	30	142845024	0076	X	76		es	1014.6	10	20/07	4		0046
33	9	172755797	0037	24	-775	LAST	15	1017.7	10	105/10			0

26 PORT

NOAA • AOC • SED

N49RF AVAPS DROP LOG Lead Tech: Gabe Defeo

Project: Hurricane 2017 Mission: Hurri Itala Flight ID: <u>2019-0906</u>N/

Take Off: _____ Landing: ____ Flt Dir: Tess / Fich Launcher S/N: ____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good
1	163025103	1	-0.2	1805	AJP	PHS		1
2	143215157	2	-0.8	1840		NIPS		1
3	143215139	3		1852				1
4	142845014	4	-009	1903				V
5	143255036	1	-1.0	1914				1
6	143245095	2	-0.6	1925				1
7	142845003	3	-0.3	1936	80 A 4 5 5 4 5 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			
8	143215150	4	-0.6		and the same	ACCOMPANY OF THE PROPERTY OF T		1
9	142625886	1	-0.7	1956	- And Andrews Control of the Control			
10	142715026	2		2006	- Carrier Carr			/
11	142845006	3	-1.2		Practical Control of the Control of			
12	143425128	4	-0.6	2025	and the same of th			
13	143215173	1	-0.8	2035		0 PACTAGE	. '	
14	143255107	2 :	-0.5	2046.		-	14	1.1
15	143215151	3	-007	2101			7 · · · · · · · · · · · · · · · · · · ·	1/
16	143245067	4	-0.5	2112				1
17	143255167	1	-0.6	2124				1
18	14.27-45118	2	-05	2135				1/
19	143245099	3	7	2154	The second secon			V
20	143245105	4	-0.5	2204				
21	143255140		-0.4	2214	177			/
22	142615079	2	-0.5	2225				
23	142745121	3	-0.6	2239		CO STATE OF THE ST		1
24	142745109	4		2248				1
25	142835058	1		2259				
26	141335096			2213				
27	142715063		-0-5					
28	142725087	4	-00	2238				
29	142725086	2		2350				
30	1432/5/7/			0002			· ·	
31	142715032			0014				
32	142845024	4		0026				1
33	142755194	1	-0-5	0037	-			
34								

