N49RF ERROR SUMMARY NHC Hurricane IRMA Surveillance Mission 2811A

Flight ID: 20170909N2

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/20170909N2

Local	Met Data	Takeoff	KLAL	(1721Z)	Landing	KLAL	(0126Z)
	Dynamic Correction	ons			Υe	es.	
	AttackAngleInterd	cept			5.	1083	
	AttackAngleSlope				5.	91956	
	SlipAngleIntercep	ot			1.	05	
	SlipAngleSlope				6.	80484	
	AttackAngleInterd	cept2			5.	05312	
	AttackAngleSlope2	2			5	.74156)
	SlipAngleIntercep	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	32	29	29
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	/ NOAA / Air	craft Op	erations Cer	nter	
FLT ID: 20170909N2		KL	AL		То:	KLA	L
FLT#:	Blk In:	013	32 z		Lnd Time:	012	6 z
ETD: 1730z	Blk Out:	17	3 z		T/O Time:	172	_) z
ETE: 8+00	Total Blk:	8	3		Total Flt:	8.	
Sponsoring Org: NHC	Program:	PH	5		Purpose:	SS	RMA
		AOC FI	ght Crew				
Aircraft Commander: TWINIV	NG		SSA:	DE	EFEC	>	
CO-PILOT: FRITZLEIR			AVAPS:			1	
Navigator: /			Scientists	s:			
Flight Eng: /			Scientists	S			
FIt Director: HENNING L	VILLIA	MS	Scientists	S			
SEB: PAUL, PATEL	1 DELC	SADI	Scientists	s:			
Crew Chief: Visitors	STA	1006	,3		/ ST	A 1000	1.2
Pressure A/C - Takeoff	Wx Statio	0 06 s		A/C - La	2 1004 a	-	Station - Land 9 - 80 TA
AS REQUIRED BY ORM		YES / N	O REMARK	(S			
VOLCANIC ASH SCIENCE MISSION WITHIN BOUNDAR	RYLAYER						
LACK OF PRECIPITATION	T LATER						
RELATIVE HUMIDITY AT OR ABOVE 8	0%						
LARGE AIR-SEA TEMPERATURE GRA	DIENT						
HIGH SURFACE WINDS							
LONG FETCH AND/OR DURATION OF	SFC WIND						
SEA SALT ACCRETION FORECAST							
SEA SALT ACCRETION OBSERVED							
Dropsondes 32	Good: 2	7 Bad	: 3	Sent:	29		
AXBT List other data sources in Remarks section	Good:	Bad	:	Sent:		VDM	
Remarks (Storm VDM Identifier, Mission	ID, Fix Time	es)			Fix#	Ob Num	Fix Time / SLP
Storm Number Identifier (VDM):							
(ie: AL072012)							
D D	2111	10	MA				
TCPOD/WSPOD Mission ID:	Olly	11	4-) //				
Remarks:							
	60						19 51
36	9016					L	()
	3018						00 7,

APPENDIX 2 - GIV QC Checklist

Flight ID:	20170909N2
Flight Director(s):	HENNING/WILLIAMS

Pre	Pressure Comparison											
	T/O	Land										
Aircraft	#2	-										
	1006.2	1004.1										
Tower												
	1006.3	1004.6										

	(4)	111
UWZ.d mean:	().	4

	Rav	w 1Hz Mean	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	Altı.2	AltPa ADDU.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	Pitchl.1	PitchRateI.1	RollI.1	RollRatel.1	PITCHref	
	Pitch1.2	PitchRateI.2	Roll1.2	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
					ним	

Mission Dod	cur	pents:
	V	Error Summary
	/	Crew Manifest
	V	QC checklist
	V	Dropwindsonde Log(s) – AVAPS and FD if completed
	-	Miscellaneous FD notes

NOTES:

AltRa. 1 oscillation not as well defined as seen with 20170906N1 (more noisy)
TDM. Z better at altitude but too-dry near SFC.

N49RF AOC GPS Dropwindsonde Log

	- AF	116	AG	1 4	
Flight ID:	201	101	01	N	7

Flight Director: Henring Williams

Mission ID: 2811A STAA

Storm/Track: 12MA

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	1	163455 299	174 4	28.8	-74,4	YCAS	RS	1013	10	075/30	1		1811
2	ch	163455791	1758	30.0	-79.95		25	1014.7	11.	075/20	2		1681
3	3	1817 47	439-557	31.5	-7 <i>g</i> 5		25	10163	10	065 (34	3		1234
4	4	1905	18/5/18/5	31,5	-76.5		125	1014.9	10	055/20	4		1847
5	5	142715007	1837	31,4	-74.7		RS	1016,2	10	050/13			1957
6	6	162718697	1851	30	-20.5		25	105.5	10	015/15	2		1915
7	7	1500	1907	3.	-77.5		25	1613.7		075 (>5	3		1932
8	8	162715139	1935	27	-78,5		R5	1007.4	12	090/22	5-1		1956
9	9	162715206	1048	26.5	-76.8		P.5	1008,4	10	110/24	i		1000
10	io	162715068	1955	76.3	-75.97		R5	1009.2	io	125/23	2		2017
11	į, l	162715040	2013	24,7	-76.7		25	1006	10	100/25	3		2034
12	12	163575007	7024	22.9	-76,5		R5	1005.1	10	135/25	4		2047
13	13	162715032	2033	32	-77		R5	1003.8	10	155/17			2654
14	14	163955784	2051	2	-75		R5	1006,9	10	125/19	2		21131
15	15	163075102	2105	20	-74		R5	1008.7	10	160/16	3		2136
16	16	163025064	2122	19.5	-76		R5	1006.8	10	165/26	4		2153
17	17	162715631	2137	19	-78		R5	1005,4	(1)	195/18			2204
18	10	164015056	2153	20.5	-79.2		R5	1002.	10	185/31	3		2220
19	19	62835056	2202	21.25	759		R5	996.2	10	22/142	3		2178
20	20	163455065	2211	21,4	-81.		RS	995.4	10	245/46	14	LOST Data	5800 m3
21	71	163 255 087	2226	21	-83		P-5	1001	10	295/26	1		2251
22	57	163615094	2249	22	-85.4		R5	1004.6	10	340/21	3		2324
23	23	162845063	2300	24	-843		25	1003	0	360126	3		2322
24	24	163255027	2329	24	-87		R5	1007	18	075/23	4		7354
25	25	163615092	2345	26	-87		R5	1009	10	020/23	1/	Athorno	L-0009
26	*										7	inactor	
27	26	163845115	000	28	-87		R5	1011.5	10	030 19	3		0006
28	27	16000	0016	29.85	-86, 95		25	10140	10	040/24	4		0043
29											1	Fast Fall	I wad 6PS
30	23	162815067	0033	25 75	-60		P-5	101.4	10	047/33	2	, 01 , 3	0053
3(-0/						3		
32	29	163635106	9649	37.1	-84,8	LAST	25	1007.3	10	050/20	4	LASTRE	1802I (
		910.											



NOAA . AOC . SED

N49RF AVAPS DROP LOG Lead Tech: Gabe Defeo

Project: Hurricane 2017 Mission: Hun lema Flight ID: 20170909N2

Take Off: _____ Landing: ____ Flt Dir: \(\) Fers/\(\) Launcher S/N: ___ 2

	Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
	1	163455289	1	-0.8		AJP.	PHS		V
	2	163455291	2	-0.7	1758	- Constitution	No. of Local States		1
-	3	163455277	3	-0.7	1812	Part and par	AN TONCON		1
	- 4	1634 15276	4	-0.4	1825	-	AV. S. HATE		V
-	- 5	162715007	1	70.0°	1837	We describe	SAGACTINE TO SE		1
- 1	6	162715097	2	-0.5	1851	dit V Filmhighida.	Partie gery	v	1
	. 7	162845060	3	-0.2	1907	HATTY TOWNS	SPECIALITY SPAINS		<u></u>
3	8	162715139	4	-0.6	1935	Average and a few of the few of t	PREsident	-	1
	9	162715206	1	-0.2	1948	NATY CORPAGE	TACCALLES .		1
	-10	162715068	2	-0.5	1955	New Assessment of the Second o	(E) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	2	~
	11	162715040	3	-00-7	2013	Netherland and	AND STATE OF THE S		2
	12	163325007	4	0.0	2024	Rest Pijadajiyag ij	C.Storages and		V
No.	13	162715032	4	0.0	2033	(intervention)	The Control of the Co		V
	14	163455284	2	-0.4	2051	ANT TOWNS AND	Part Control of		1
	15	163025102	3	-0.5	2105	Parliament vites (C)		. 7	1
	16	163025064	4	-0.2	2122	attenessing a	A CONTRACTOR OF THE CONTRACTOR		1
	17	162715031	1	-0.4	2137	esilotavea e	PARTITION OF THE PARTIT		
-	18	164015056	Z	0.0	2153	and the second s	W S COLORES		1
	19	162835056	3	-0.2	2202	- Landerson			
	20	163455065	4	-0.2	. 2211	9	And the state of t	10st telemetry Earne back	1
100	21	163255087	1	- Doj	2226		feet and the		1
	22	163615094	2	-013	2249		A MILLIAND TO A A CO.		V
-	23	162845063	3	-0.1	2308	A d	The section of the se		~
	24	163255022	4	-0.2	2329	The space of the s	9		2
	25	163615092	1	-0.6	2345		Jan 19	> Humidily deek	
	26	162845039	2	0.2	2346				1
	27	163845115	3	0.3	0001				1
	28	163625023	4	-0.1	0016			0.10	
	29	163455281	1	-0.1	0032	STATE OF THE STATE	diameter disease	Bad GPS	4
4	30	162845064	2	0	0033				
	31	163255053	3	6.2	0048			No PTH/1	X
	32	163615106	4	-0.4	0049	1		\	V
	33								- 1
	34								

