N49RF ERROR SUMMARY NHC Hurricane NATE Surveillance Mission 0216A

Flight ID: 20171005N1

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/20171005N1

Local	Met Data Dynamic Correction AttackAngleInteron AttackAngleSlope SlipAngleIntercen SlipAngleSlope AttackAngleInteron AttackAngleInteron AttackAngleInteron	cept ot cept2	KLAL	(1739Z)	5. 1. 6. 5.	es 1083 91956 05 80484 05312 .74156	5
	SlipAngleSlope2	162				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.

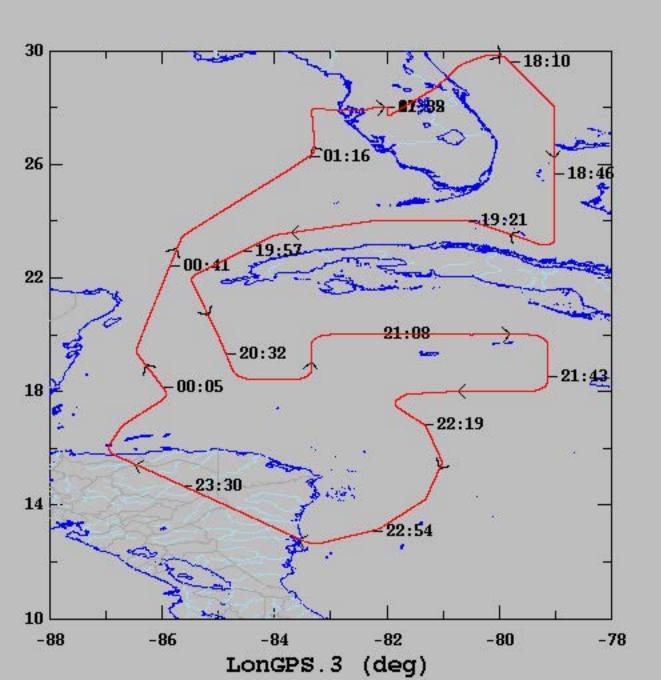
TDM.2 is too dry at low altitude but is closer to TA.d at operational altitudes. TDM.1 is more accurate at low altitudes but far too moist at FL 410-450. TDM.2 is the reference.

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

Expendable Type	# deployed	# good	<pre># transmitted</pre>
Dropsondes	33	31	31
Test sondes	9	9	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. o	f Commerce	/ OMAO / N	IOAA / Aircr	aft One	rations Ce	nter	7
0		1/ONIO/I	A I			KIAI	1
		MIF	HL		To:	01110	
FLT#:	Blk In:	1770	S Z		Lnd Time:	1779	-
ETD: 1730 z	Blk Out:	176	.7 z		T/O Time:	1739 z	-
ETE: 8+00	Total Blk:	8.	4		Total Flt:	5.4	-
Sponsoring Org: NHC	Program:	PHS			Purpose:	NATE SS	4
TIME	1.0	AOC Fligh	1	*-	5		-
Aircraft Commander: TWINIA			SSA:	DE	FEC	1. GALLANT	
Co-Pilot: SIMS / W	ADDIN	O TON	AVAPS:	21	VIII	1 GREENE	+
Navigator: /	1763	26664					-
Flight Eng: /			Scientists				
FIT Director: HENNING	SEA	RS	Scientists				-
SEB: /	1		Scientists:				-
Crew Chief: Visitors		1		1			
A/C - Takeoff Pressure +2 1009.7 AS REQUIRED BY ORM VOLCANIC ASH	Wx Station 27C 26 STA	on - Takeoff 9.95 1009 - 2 YES / NO	11	/C - Lai	2	24C 29.96 SFA 1009-5	
LACK OF PRECIPITATION RELATIVE HUMIDITY AT OR ABOVE & LARGE AIR-SEA TEMPERATURE GRA HIGH SURFACE WINDS LONG FETCH AND/OR DURATION OF SEA SALT ACCRETION FORECAST SEA SALT ACCRETION OBSERVED	ADIENT						
Dropsondes 33	Good: 3	Bad:	2	Sent:	31	+ 9/testsa	
AXBT	Good:	Bad:		Sent:		19	
List other data sources in Remarks section Remarks (Storm VDM Identifier, Mission	NAME AND ADDRESS OF THE PARTY.			oont.	Fix#	VDM Ob Num Fix Time / SLP	
Storm Number Identifier (VDM): (ie: AL072012)	TID, FIX TIME	es)	-			OD Num Pla Pline / OLI	
TCPOD/WSPOD Mission ID: 0210 (ie: NOAA2 2418A SANDY) Remarks:	6A N	ATE					
Tromains.					ARRANGE STANK	CHB 17 17 CHB CHB CHB	GH.



FLIGHT ID 20171005N1 05 MISSION ID 0216A NATE

Flight Director SEARS / HENNING

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Drop #	СН	TIME	Sonde Serial #	OBS #	# Lat	Long	SFC Pressure	SFC or	Last Wind	500 mb	250 mb	Status	KWBC Time	Comments
1	1	180801	162735 123	1	29.83	80.03	1016	045	26 10 M	5878	10957	PSP	1833	ALLOWED OC'D WINDS THROUGHT
2	2		163313 042	2	27,99	79.00	1014		8m				1844	1+5
			163255116	3	26,49	79.00	1612	10016	11.5 m	5868	10968	PSF	1900	its RH2 better
			162655001		3473	79,00	1011	100 13	2 10.3 m	5864	10970	PSF	1919	145
5	١		163313023	5	23.17	77.15	1010	12013	9,um	5861	10970	PSF	194	its
6	2	192139	160225038	6	23.7	-80.5	1009	12018	11,00	n5851	10954	P8 F	1946	115
7	1	1	163313031	/								PSF		no bunch detect
			143855122	7	2395	82.41	0006	13534	1	5837	10938	B 8 F	2015	its
9	(195039	163313 188	8	23.48	84100	1005	35503				PSF	2028	its
10	2	200849	163255 099	9			1007	00312	11.4	5819	10920	PSF	2038	its.
11	3	202700	163313055	10	19,99	-8200	1006	05011	10,5	5818			2047	:15
12	4	204059	163325041	11	18.46	84.51	1006	07513	>	5827	10961		2102	its et DELE ELD
			163313041	12		83,40	1006	2851	3 13m	5823	10960	PSF	2124	45
14	2	210131	163325131	13	1994	83.16	1007	130 17	-	5830	10952	PSF	4133	its
15			162835 008	14	20,00	21.93	1007	11011	103	15832	10028	PSF	2143	its
			163313032	15	20,00	80.49	1008	09013	10,01m	5854	10972	P 8 5	2147	its
17	1	213200	163255 111	16	19,87	79.21	1007	11518				PSF		港
18	2	214808	163313 045	17	18.07	79.26	1007	125 H				PSF		15
19	3	220037	163335060	18	18,00	30,76	1006	12517				PSF	222)	its
			162735049	19		81.83	1006		10:8m				2230	145
21	1	201946	163313043	20	16.78	8130	1003	160 16		5836			2241	:45
22	2	223.32	163313033			50.18	1006	170 27				PSF	2250	75
23	3	224248	162715049			-81.31	1006	130 16				PSF	2318	its
			16265503		13.14		1006	21026		5833			2321	its
			163455020		12,68		1006	20523	96M	5829	10954	PSF	2325	its
26	2	235254	16352507=			86.68	1005	04517	11.9m	5525	10960	PSF	0618	its
27	3	000342	162735 120	26	17.89	85.91	1005		5.5M			PSF	0024	its
		001652	162735035	27	17,4	8645	1006	05518	MPF	5821	10941	PSF	0042	its
29		2011	163255 126		and the same of				/			PSF		launch-faled old
30	2	065011	162733050	29	2357	85.5		-		/		PSF	0111	GAI EARLY TERMINATION
* 31	3	010053	163313053	30	24.61	-8417	1003	04519	1 76m	5844	10142	PSF	0126	low sort pres?
32	4	01117	163325011	LR	2573	-83,78	1008		p.2m					
33	1	2345	163755108	28	15,9	869	1005	08008	2.4m	2818	10945	PSF	0117	
34	-											PSF		
35												PSF		
36												PSF		

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N49RF AVAPS DROP LOG

Lead Tech: Gabe Defeo

Project: Hurricane 2017 Mission: TS Note: Flight ID: 2017 1005 N 1009.5 Take Off: 1739 Landing: Flt Dir: Herming Launcher S/N: Sonde Serial Drop Rcvr Press Launch Operator Charge Comments Good # Offset Time \$\$ To -1.2 1818 162735 123 ZAL MINS 1818 -0.7 BD 41 TEST . 33130425 -6.9 1826 NWS 4 63255 116 JAS 1839 DPS 5 1856 162655001 Lif -101 JAS RAYI BUILD INST 6 Th 726/0284 -0.7 1839 163313023 40.6 1908 JA5 NhIS 8 162825058 -10 1921 NO LD. 9 NORMAL PITHWWS 16331303 -, 5 1935 10 14 1936 143855122 BACKTP 5 11 163313188 1950 4.0 12 - 9 163 255099 2008 13 113313:055 13 0,6 2027 RD41 A3 DPID GD 72620587 -, B 2008 (11) - 8 163 325 041 2027 JAS 16 163 313 041 -0.8 2050 12 17 163 325 031 2 DP 13 - 6 2101 18 162 835 008 3 2110 19 J6 1726 20593 2101 RD4/ #4 20 2121 163 313032 JA5 21 163 255 11 1 2132 22 163313045 .5 5 2148 Z DROP POINT IR 23 163325060 2200 ROYI-RH BURN MOP × 24 5 -8 JĘ 172610279 2140 25 162 735049 JA5 16 2210 19 26 163313043 22 19 20 27. 163313033 21 2231 28 72620594 .6 2219 RU4196 29 162715049 2242 DPZZ 1.0 2253 162655 003 D823 31 163 455020 2302 DP24 32 163 255 108 -8 2346 DP25 33 163525075 2 DP 26 2352 34 - 9 DP27 162735 120 0003

APPENDIX 2 - GIV QC Checklist

Flight ID: 20171005N1
Flight Director(s): HENNING / SEARS

Pressure Comparison

T/O Land

Aircraft 100 9.7 1009.6

Tower 1009.2 1009.5

	Ray	w 1Hz Mean	File Parame	ters	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	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	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	PitchRatel.1	RollI.1	RollRatel.1	PITCHref	
	Pitch1.2	PitchRateI.2	Rolli.2	RollRatel.2	ROLLref	
	PitchI.3	PitchRateI.3	Roll1.3	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	

Fror Summary
Orew Manifest
QC checklist
Dropwindsonde Log(s) – AVAPS and FD if completed
Miscellaneous FD notes

TDM. 2 too dry near surface but much better at opsalt.