N49RF ERROR SUMMARY NHC Hurricane HARVEY Surveillance Mission 1109A

Flight ID: 20170824N1

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/20170824N1

Local	Met Data	Takeoff 1	KLAL	(0455Z)	Landing KLAL	(1139Z)		
	Dynamic Correction		Yes					
	AttackAngleInterd	cept			5.1083			
	AttackAngleSlope				5.91956			
	SlipAngleIntercep	ot			1.05 6.80484			
	SlipAngleSlope							
	AttackAngleInterd		5.05312					
	AttackAngleSlope2		5.74156					
	SlipAngleIntercep		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 too dry at lower altitudes but closer to TA.d at operational altitudes (smaller degree of supersaturation). TDM.2 is reference. AltRa.1 has many dropouts (prior to replacement after end of Harvey mission sequence), but is not used for calculation of GA (AltGPS.3 is the source of absolute altitude)

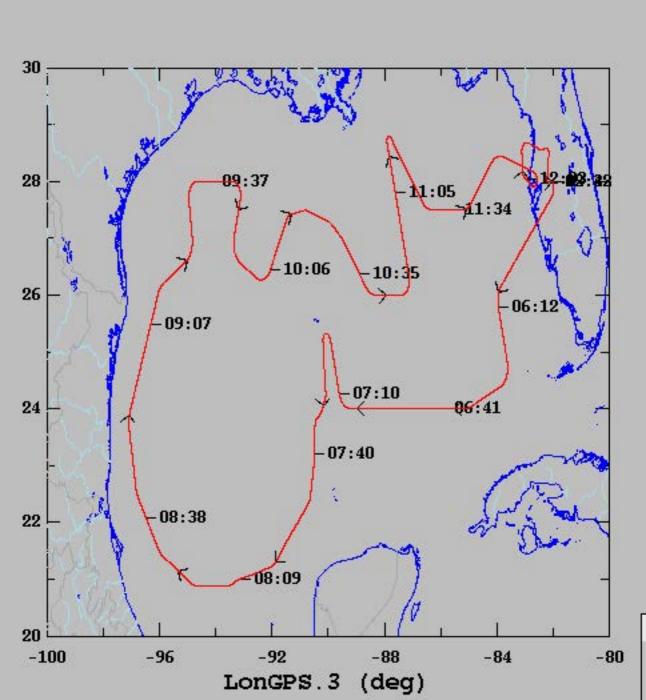
Expendable Type	# deployed	# good	<pre># transmitted</pre>
Dropsondes	30	29	29
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

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

ACAT-4 Version = 7.1

							344
U.S. Dep	t. of Commerc	e/OMAO/	NOAA / Aircraft	Operations C	enter		15
FLT ID: 20170824N	1 From:	KLAL	Rhodi	To:	KLK	7 4	
FLT #:	Blk In:	122	6 z	Lnd Time	. 122	29 z	6445
etd: 0530 z	Blk Out:	053	36 z	T/O Time	MI	14z	0.115
ETE: 7+00	Total Blk:	7.	0	Total Flt:	C	. 8	
Sponsoring Org: NHC	Program:	PH	15	Purpose:	SURV		Ne V
		AOC Fligh	nt Crew	i dipose.			- /
Aircraft Commander:	INN 6		SSA: M	ILLER	2		
Co-Pilot: FRITZLER	SIMS	>	AVAPS: SV	MITH	UNDE	RWOOD	
Navigator: /			Scientists:				
Flight Eng: /			Scientists				
FIt Director: HENNING	FLAHE	RTY	Scientists			/	
SEB: ROLES,	/		Scientists:				
Crew Chief: Visit	ors:	/		/			\neg
A/C - Takeoff Pressure #2 007.3 AS REQUIRED BY OR	750 20	n - Takeoff	7.2 #2	Land 1007-5	2	Station - Land	1007.2
OLCANIC ASH		YES / NO	REMARKS				
SCIENCE MISSION WITHIN BOUND ACK OF PRECIPITATION	ARY LAYER						
RELATIVE HUMIDITY AT OR ABOVE	E 80%						
ARGE AIR-SEA TEMPERATURE G	RADIENT						
HIGH SURFACE WINDS ONG FETCH AND/OR DURATION (SEA SALT ACCRETION FORECAST	OF SFC WIND						
SEA SALT ACCRETION OBSERVED							_
Oropsondes 30	Good: 2	Bad:	1 Sent	29			
XBT t other data sources in Remarks section	Good:	Bad:	Sent				
demarks (Storm VDM Identifier, Missi	on ID, Fix Time	s)		Fix#	VDM Ob Num	Fix Time / SLF	
torm Number Identifier (VDM): e: AL072012)							7
CPOD/WSPOD Mission ID:	1109A	HAR	VEY				

Remarks: 22 32 N



AOC GPS Dropwindsonde Log

Flight 1D: 2017 0824 N1

Mission ID: 1109A HARVEY

FLAHERTY /HENNING Flight Director:

HARVEY Storm/Track:

2061	0.11				Stormina	ок:	IANVE					Pg L of L
h. #	CH Propy#		Drop Tim (UTC)	Lat (°N			SFC Prs (mb)	Ob#	L5/R5	Last Winds R5 (ht, ws, wd)	Last Winds L5 (ht, ws, wd)	Sent Time/KVVE
7	1	15151	0610	26	-84	N/A-DARK	1010.1	1	R		(*, 10, 110)	0629
-	2	25061	0627	V 1	-83.5	11	1009.5	12	12			0644
+	4	55030	0633	24	-85	il.	1009.0	3	R			0654
+	-	and the same of th	0645	124	-86.5	- The state of the	1069.4	14	12			0705
+	2		0657	- 24	-88	10	1008.9	5	R	KEPT LAST	WEND	0715
	2	25061	0708	24	-89.5	il	1009.1	1016	R			0728
1	7	25055	0735	25.5	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	1(1008.9	187	2			0739
1	1	(5313	0 - 33	123.77	-90.5	1(1007.4		R	DIVERTING FOR	WX	0759
-+-	2	25061	0751	122	1-911	1	FAST FA					in inter
1	3	77052	0802	121.2	1-92.2	1000	1006.2	19	R			0811
i	1	2505	08:2	70.0	1-92.4	1 11	1005.2	10	R			0821
1	1	25006	10822	120.91	1-94.8	1	1005.5	113	R			0831
1	2	25061	0832	121,4	96.0		1004.5	12	R.			0843
13		35051	0842	22.5	96.8	10	1006.1	13	R	The second secon		0851
14		15293	0853	23.8	97.1	11	1007,5	15	R			0905
		15300	0913	121	-96	16	1008.9	17/	2			0913
1	2	15291	0923	26.8	0 5	11	1008.3	12	0	(-)		0939
-	3	45177	0932	77,19	-94.8	١	1009,5	18	0			0996
4		55180	0945	28.0	-93.0	11	1009.8	19	8	£40	i	0953
1		35100	0955	7607	-93.4	11	1008.9	20	0	± LN		1005
1	5	45111	1604	7611	-97.2	11	1008.1		2			1023
Z		\$5570	1018	27.5	-90.9	1'	A Manhatan and the higher market have been been been been been been been be	27	R			1037
7	1	5547	1029	27.0	-89.5	1,	009.6	23	R			1043
6	1	5100	1039	26.0	- 88.4	UCST	1010.0	the Real Property lies	R			1051
3	and the same of the same of	5034	1049	26.1	-87.1	UCST	1011.0		R			1110
2		5301	1115	28.8	- 87.7	UCST	1011.8	26	2			1/41
T		5005	1128	27.15	86.5	SCT	1010.7	27	RI			1146
2		5043	138	27.5	85.0	SCT	1010,9	Total control of the	R			1158
		17017	1149	28 4	839	FEW	1011-4		R	LAST (ZE	2027	1208
	-											3
	-											
			· 1									

APPENDIX 2 - GIV QC Checklist

Flight ID:	2017082	1N1
Flight Director(s):	HENNING	/FLAHERTY

Pressure Comparison

T/O Land

Aircraft 1007.3 1007.5

Tower 1007.2 1007.2

#2

Mission Documents:

	Ra	w 1Hz Mean	C File P	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	Altı.2	AltPaADDU.2	AltBCADDU.2	ALTPA.d	
	AltGPS.3	Alt1.3	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	las ADDU.1		IAS.d	TAS.d
Pitch/Roll	PitchI.1	PitchRateI.1	RollI.1	RollRatel.1	PITCHref	
	Pitch1.2	PitchRateI.2	Rolli.2	RollRatel.2	ROLLref	
	Pitch1.3	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	-

Error Summary	
Crew Manifest	
VQC checklist	
Dropwindsonde Log(s) – AVAPS and FD if completed	
Miscellaneous FD notes	
NOTES: AltRa. 1 (prior to replacement) many	
TDM. 2 too dry new surface but clos	er to TA.c
at ops att (less supersaturation)	