

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

FLT ID: <b>20170824N2</b>	From: <b>KLAL</b>	To: <b>KLAL</b>
FLT #:	Blk In: <b>0146</b> Z	Lnd Time: <b>0141</b> Z
ETD:                      Z	Blk Out: <b>1722</b> Z	T/O Time: <b>1729</b> Z
ETE:	Total Blk: <b>8.4</b>	Total Flt: <del>8.2</del> <b>8.2</b>
Sponsoring Org: <b>NAC</b>	Program: <b>Surveillance</b>	Purpose: <b>Harvey</b>

AOC Flight Crew

Aircraft Commander: <b>MACINTYRE</b>	SSA: <b>DEFEO</b>
Co-Pilot: <b>COWAN</b> /	AVAPS: <b>WARNECKE</b> / <b>HASAJ</b>
Navigator: /	Scientists:
Flight Eng: /	Scientists
Flt Director: <b>SEARS</b> / <b>WILLIAMS</b>	Scientists
SEB: <b>GREENE</b> /	Scientists:

Crew Chief:                      Visitors:                      /                      /

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure				

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	<b>37</b>	Good: <b>37</b> Bad: <b>0</b> Sent: <b>37</b>
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
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Storm Number Identifier (VDM): (ie: AL072012)			
TCPOD/WSPOD Mission ID: (ie: NOAA2 2418A SANDY)			

Remarks:



N49RF AOC GPS Dropwindsonde Log

Flight ID: 20170824N2

Flight Director: Sears/Williams

Mission ID: 1409A

Storm/Track: H. Harvey

Pg 1 of 2

Drop #	Ob #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°E)	Wx Cond.	L5/R5?	SFC Pts (mb)	Last Wind Alt (m)	Comments	Ch #	SatComm failures	KWBC #
1	1	143245115	175131	26.13	-83.27		R	1011.3			1		1810
2	2	143245115	180102	26.17	-83.45		R	1011.9		600 warn	2		1827
3	3	143245109	181335	27	-84.5		R	1011.3			3		1836
4	4	143255127	182346	26.6	-85.0		R	1011.4			4		1850
5	5	143255127	183719	28	-86.2		R	1011.3			1		1903
6	6	143255127	184707	27.9	-87.4		R	1011.8		No str winds	2		1914
7	7	143245101	190139	26.1	-87.6		R	1011.3			7		1930
8	8	143255191	191210	26.08	-88.88		R	1016.4	12		4		1939
9	9	143255100	192017	27.9	-89.1		R	1011.2			1		1953
10	10	143255104	193402	27.9	-90.4		R	1009.8			2		2005
11	11	143245108	195934	26.1	-90.7		R	1008.2			3		2015
12	12	143335034	200622	25.37	-91.85		R	1005.7			4		2029
13	13	143245105	201546	26.5	-92.2		R	1007.1			1		2037
14	14	143255104	202606	27.5	-93.04		R	1008.1			2		2053
15	15	143255104	203616	28.1	-94.26		R	1008.1			3		2103
16	16	143415033	204605	28.1	-95.5		R	1007.9			4		2109
17	17	143445012	210043	26.9	-96.83		R	1007.7			1		2121
18	18	141335001	211439	25.3	-96.9		R	1006.5	9.1		2		2142
19	19	143255138	212221	23.9	-97.4		R	1005.1	9.0		3		2151
20	20	143335001	213842	22.85	-96.25		R	1005.2	10		4		2201
21	21	143245052	214925	22.24	-95.55		R	1003.9	8.3		1		2213
22	22	143255157	215956	22.3	-94.22		R	1003.4	8.6		2		2222
23	23	143255135	221031	22.88	-93		R	1003.2	8.1		3		2246
24	24	143255153	22221	22.87	-92.16		R	992.6	7.2		4		2309
25	25	143415031	223318	23.82	-90.54		R	1006.4	7.6		1		2315
26	26	143215067	224446	22.56	-90.36		R	1007	5.5		2		2319
27	27	143215006	225627	22.93	-89.82		R	1008	5.5		3		2321
28	28	143335011	230750	23.9	-88.54		R	1008.7	10.6		4		2350
29	29	143245057	231843	24.0	-87.46		R	1010.3	5.7		1		2357
30	30	143255154	233101	24.44	-85.99		R	1010.0	5.5		2		2000

PARSIM  
FP



# N49RF AOC GPS Dropwindsonde Log

Flight ID: 20170824N2

Flight Director: \_\_\_\_\_

Mission ID: \_\_\_\_\_

Storm/Track: \_\_\_\_\_

Pg \_\_\_ of \_\_\_

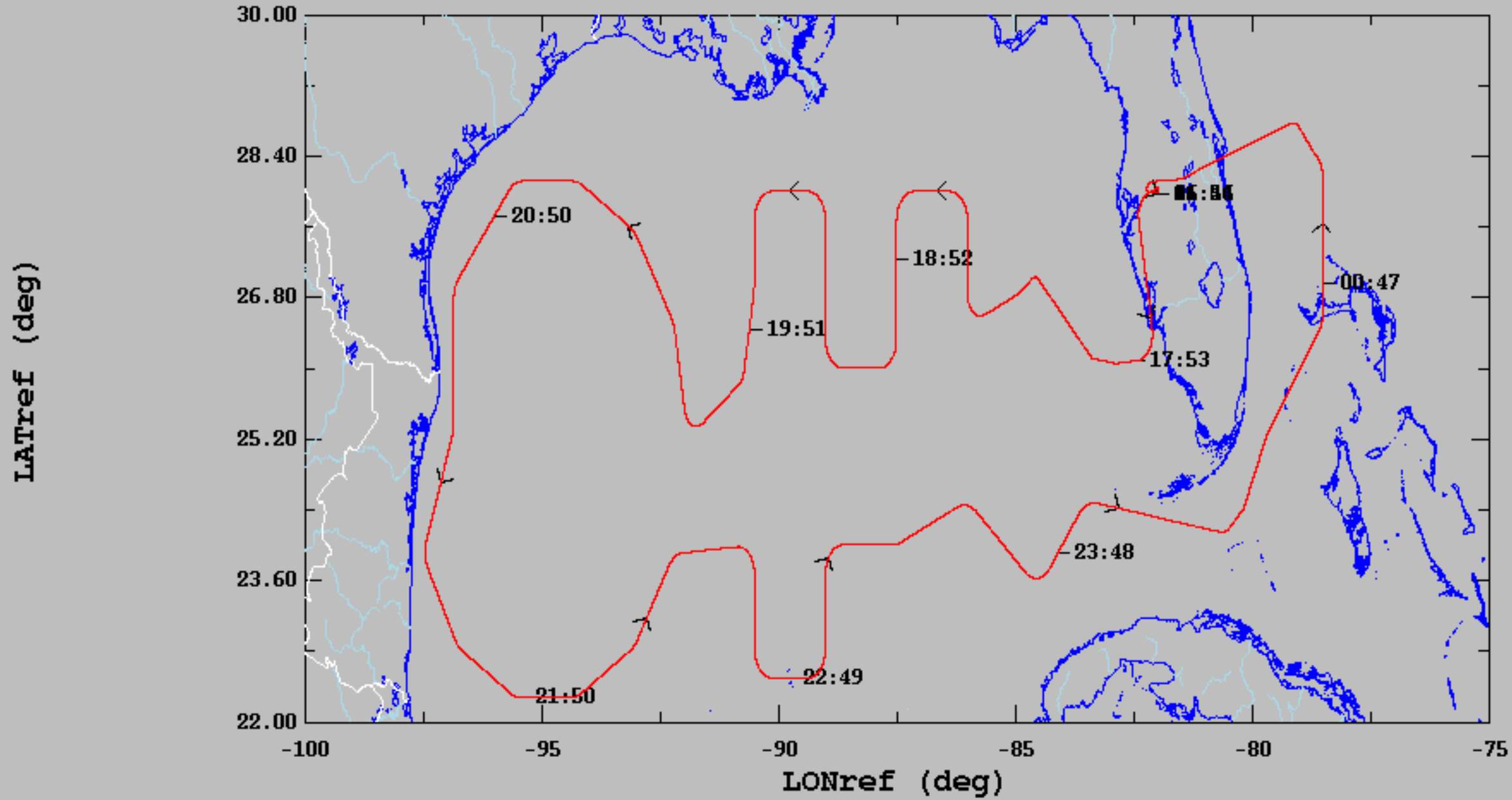
Drop #	Ob #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°E)	Wx Cond.	L5/R5?	SFC Pts (mb)	Last Wind Alt (m)	Comments	Ch #	SatComm failures	KWBC #
31	31	142855126	234420	28.6	-84.5		L5	1011.3	10.9		7		0004
32	32	143255559	235547	24.47	-83.4		R5	1011.3	7.2		4		0020
33	33	143215066	001001	24.25	-81.49		R5	1012.9	8.5		1		0031
34	34	143215179	002207	24.53	-80.1		R5	1012.9	8.5		2		0044
35	35	143415067	<del>003035</del> 0045	25.77	-79.19		R5	1013.1	7.2		3		0058
36	36	143245086	0045	26.81	-78.5		R5	1013.9	5.8		4		0107
37	37	142855081	0100	28.42	-78.66		R5	1011.8	5.7	4457 ERROR	1		0119
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LR



# Hurricane Harvey NHC Surv

08/24/2017, 16:54:24-25:46:31



	mean	sigma	min	max
— LATref (deg), 1 s/sec	25.92	1.93	22.28	28.78
— LONref (deg), 1 s/sec	-87.46	5.64	-97.45	-78.50

## APPENDIX 2 – GIV QC Checklist

<b>Flight ID:</b>	20170824N2
<b>Flight Director(s):</b>	Sears/Williams

Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	1: 1006.3 2: 1007.6	1: 1006.3 2: 1007.5
<b>Tower</b>	<b>1006.9</b>	<b>1007.1</b>
<b>times</b>	<b>1729</b>	<b>0141</b>

UWZ.d mean:     0.13    

		Raw 1Hz Mean File Parameters				C File Parameters	
<input checked="" type="checkbox"/>	Accelerometer	AccAXI.1	AccAYI.1	AccAZI.1		AccZref	
		AccAXI.2	AccAYI.2	AccAZI.2			
		AccAXI.3	AccAYI.3	AccAZI.3			
<input checked="" type="checkbox"/>	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	
<input checked="" type="checkbox"/>	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		
<input checked="" type="checkbox"/>	Lat/Lon	LatGPS.1	LatI.1	LonGPS.1	LonI.1	LATref	
		LatGPS.2	LatI.2	LonGPS.2	LonI.2	LONref	
		LatGPS.3		LonGPS.3			
<input checked="" type="checkbox"/>	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
<input checked="" type="checkbox"/>	Air Speed	CasADDU.1	TasADDU.1	IasADDU.1		IAS.d	TAS.d
<input checked="" type="checkbox"/>	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		
<input checked="" type="checkbox"/>	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			
<input checked="" type="checkbox"/>	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 checked="" type="checkbox"/>	trackplot

**NOTES:**