

N49RF ERROR SUMMARY  
20230910N1

Flight ID: 20230910N1

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.1
Vertical Accelerometer	AccZI.1
Altimeter	AltGPS.3
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.2
Differential Sideslip Pressure Probe	PDBETA.2
Dynamic Attack Pressure Probe	PQALPHA.2
Dynamic Sideslip Pressure Probe	PQBETA.2

Flight Directory                                  acdata/2023/MET/20230910N1

Local Met Data	Takeoff KLAL (1721Z)	Landing KLAL (0046Z)
Dynamic Corrections		Yes
AttackAngleIntercept		6.4652
AttackAngleSlope		7.59375
SlipAngleIntercept		0.925
SlipAngleSlope		6.56381
AttackAngleIntercept2		4.97461
AttackAngleSlope2	5.40351	
SlipAngleIntercept2		0.71
SlipAngleSlope2		6.22545

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.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	36	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: Flaherty  
Phone #: 8635003980

**U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N49RF Manifest**

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20230910N1	FLT #:		AC:	de Triquet	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:		CP(s):	Varwig		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:									
Block Time		Flight Time		NAV:		ASOS Takeoff			<b>33</b>		
In:	<b>0:58</b>	Land:	<b>0:46</b>	FE(s):					<b>BTs</b>		
Out:	<b>17:11</b>	T/O:	<b>17:21</b>	FD(s):	Flaherty		A/C Land		Good	Bad	Sent
Total:	<b>7.8</b>	Total:	<b>7.4</b>		SSA:				Defeo	Visitors:	ASOS Land
Sponsoring Org:	NHC			AVAPS:	Weinmann		Storm Number ID:		<b>AL132023</b>		
Program:	PHS			SEB:	Keller		(ie: AL072012)				
Purpose:	Hurricane Lee			MX:			TCPOD/WSPOD Mission		<b>NOAA9 1313A LEE</b>		
							(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP
VOLCANIC ASH								<b>1</b>			
SCIENCE MISSION WITHIN BDRY LAYER								<b>2</b>			
LACK OF PRECIPITATION								<b>3</b>			
RELATIVE HUMIDITY ≥ 80%								<b>4</b>			
LARGE AIR-SEA TEMP GRADIENT											
HIGH SURFACE WINDS											
LONG FETCH / DURATION OF SFC WND											
SEA SALT ACCRETION FORECAST											
SEA SALT ACCRETION OBSERVED								<b>Pennies:</b>	N/A		

\*Highlighted items must be completed before departure.

Remarks:


## G-IV QC Checklist

<b>Flight ID:</b>	<b>20230910N1</b>
<b>Flight Director(s)</b>	<b>Flaherty/de Solo</b>

<b>UWZ.d mean:</b>	<b>0</b>
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Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	<b>1010.6</b>	<b>1010.3</b>
<b>Tower</b>	<b>1011.7</b>	<b>1011.0</b>

	Raw 1Hz Mean File Parameters					C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI.3	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI.3	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI.3			✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3	✓ AltI.1 ✓ AltI.2 ✓ AltI.3	✓ AltPaADDU.1 ✓ AltPaADDU.2 ✗ AltRA.1	✓ AltBCADDU.1 ✓ AltBCADDU.2		✓ ALTref ✓ ALTPA.d ✓ ALTGA.d	
✓ Ground Speed	✓ GsXI.1 ✓ GsXI.2 ✓ GsXI.3 ✓ GsXGPS.1 ✓ GsXGPS.2 ✗ GsXGPS.3	✓ GsYI.1 ✓ GsYI.2 ✓ GsYI.3 ✓ GsYGPS.1 ✓ GsYGPS.2 ✗ GsYGPS.3	✓ GsZI.1 ✓ GsZI.2 ✓ GsZI.3 ✓ GsZGPS.1 ✓ GsZGPS.2 ✗ GsZGPS.3	✓ GsGPS.1 ✓ GsGPS.2 ✗ GsGPS.3		✓ GSXref ✓ GSYref ✓ GSZref	
✓ Lat / Lon	✓ LatGPS.1 ✓ LatGPS.2 ✓ LatGPS.3	✓ LatI.1 ✓ LatI.2	✓ LongGPS.1 ✓ LongGPS.2 ✓ LongGPS.3	✓ LonI.1 ✓ LonI.2		✓ LATref ✓ LONref	
✓ Pressure	✓ PDALPHA.1 ✓ PDALPHA.2 ✓ PDBETA.1 ✓ PDBETA.2	✓ PQALPHA.1 ✓ PQALPHA.2 ✓ PQBETA.1 ✓ PQBETA.2	✓ PQM.1 ✓ PQM.2	✓ PSM.1 ✓ PSM.2		✗ PDLAPHaref ✗ PDBETAref ✗ PQALPHaref ✗ PQBETAref	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1				✓ IAS.d ✓ TAS.d	
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 ✓ PitchI.3	✓ PitchRateI.1 ✓ PitchRateI.2 ✓ PitchRateI.3	✓ RolLI.1 ✓ RolLI.2 ✓ RolLI.3	✓ RollRateI.1 ✓ RollRateI.2 ✓ RollRateI.3		✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✗ TTM.2 ✓ TTM.3	✓ TTM.4	✗ TDM.1 ✗ TDM.2			✓ TD.c ✓ TDMref	✓ TTMref ✓ TA.d
✓ Misc. (Must check)						✓ UWZ.d ✗ DPJ_WSZ ✗ HUM	✓ WS.d ✓ WD.d

FLID_Mission_Documents.pdf:	
✓	Error Summary
✓	Crew Manifest
✓	QC Checklist
✓	Dropwindsonde Log(s) - AVAPS and FD if completed
✓	Flight Track
✓	Miscellaneous FD Notes

QC Key	
Not checked	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/>

NOTES:
<p>AltRA.1 and GSGPS's are not operational.</p> <p>TDM.1 and TDM.2 has erroneous data throughout the flight and should not be used.</p> <p>PDALPHaref, PDBETAref, PQALPHaref, PQBETAref, and DPJ_WSZ are not provided since _AC file is not produced; all other 'C' file parameters checked are from the _A file</p>

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20230910N1

ASPEN Operator/Flight Director(s): Flaherty / de Solo

Mission ID: 1013A Lee

Storm Name/Track: Hx Lee

PG \_\_\_ of \_\_\_

Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	174709	30680	1	21.5	-79.1	SCT	1016.3	065° @ 03 kts	1904	✓✓
2	2	175756	50574	2	21.1	-77.8	SCT	1017.2	075° @ 01 kts	1816	✓✓
3		1808		3					NO PTV		
4	3	180933	50988	4	26.7	-76.2	SCT	1016.8	145° @ 08 kts	1828	✓✓
5	4	181953	10114	1	26.2	-75.0	SCT	1016.2	095° @ 08 kts	1839	✓✓
6	5	183053	10110	2	25.7	-73.5	SCT	1015.2	105° @ 05 kts	1852	✓✓
7	6	184112	40664	3	25.5	-72.2	SCT	1015.2	115° @ 13 kts	1869	✓✓
8	7	185219	70968	4	25.0	-70.8	SCT	1014.8	050° @ 10 kts	1913	✓✓
9		1902		1					FAST FALL		
10	8	190442	10067	2	24.8	-69.1	SCT	1014.4	060° @ 13 kts	1925	✓✓
11	9	191357	21117	3	24.4	-68.0	OVC	1013.5	045° @ 16 kts	1934	✓✓
12	10	192638	50591	4	24.1	-66.3	OVC	1012.0	040° @ 19 kts	1946	✓✓
13	11	193738	10077	1	23.9	-64.9	OVC	1010.8	015° @ 21 kts	1957	✓✓
14	12	194700	50456	2	24.8	-64.0	OVC	1011.8	040° @ 26 kts	2007	✓✓
15	13	195649	10115	3	25.4	-62.9	OVC	1011.9	095° @ 28 kts	2017	✓✓
16	14	200635	70999	4	25.4	-61.5	OVC	1011.8	100° @ 19 kts	2030	✓✓
17	15	201652	10136	1	24.8	-60.3	OVC	1011.7	095° @ 33 kts	2044	✓✓
18	16	202758	10116	2	23.8	-59.5	OVC	1010.2	—	2053	✓✓
19	17	203917	10107	3	22.5	-59.2	OVC	1008.8	130° @ 31 kts	2113	✓✓
20	18	205036	50618	4	21.2	-59.5	OVC	1007.0	155° @ 30 kts	2117	✓✓
21	19	210125	10181	1	20.1	-60.2	OVC	1005.8	140° @ 31 kts	2121	✓✓
22	20	211346	50578	2	19.0	-59.3	FEW	1000.9	210° @ 19 kts	2144	✓✓
23	21	212653	10123	3	17.7	-60.2	FEW	1010.7	205° @ 21 kts	2151	✓✓
24	22	213533	50580	4	18.5	-60.9	FEW	1010.8	180° @ 23 kts	2157	✓✓
25	23	214517	40555	1	19.5	-61.6	FEW	1007.2		2208	✓✓
26	24	215530	10138	2	19.6	-62.9	SCT	1008.6		2217	✓✓
27	25	220550	30354	3	20.1	-64.1	OVC	1009.2		2239	✓✓
28	26	221629	40150	4	21.2	-64.9	OVC	1009.4		2249	✓✓
29	27	222705	10241	1	22.4	-65.2	SCT	1010.2		2252	✓✓
30	<del>28</del>			2					NO LAUNCH DETECT		
31	28	223856	10096	3	23.0	-66.7	BKN	1011.4		2306	✓✓
32	29								TAG TEST		
33	30								TAG TEST		
34											
35											
36											
37											
38											

COMMENTS:

ASPEN Operator will ensure this form is delivered to the AOC Flight Director to be archived

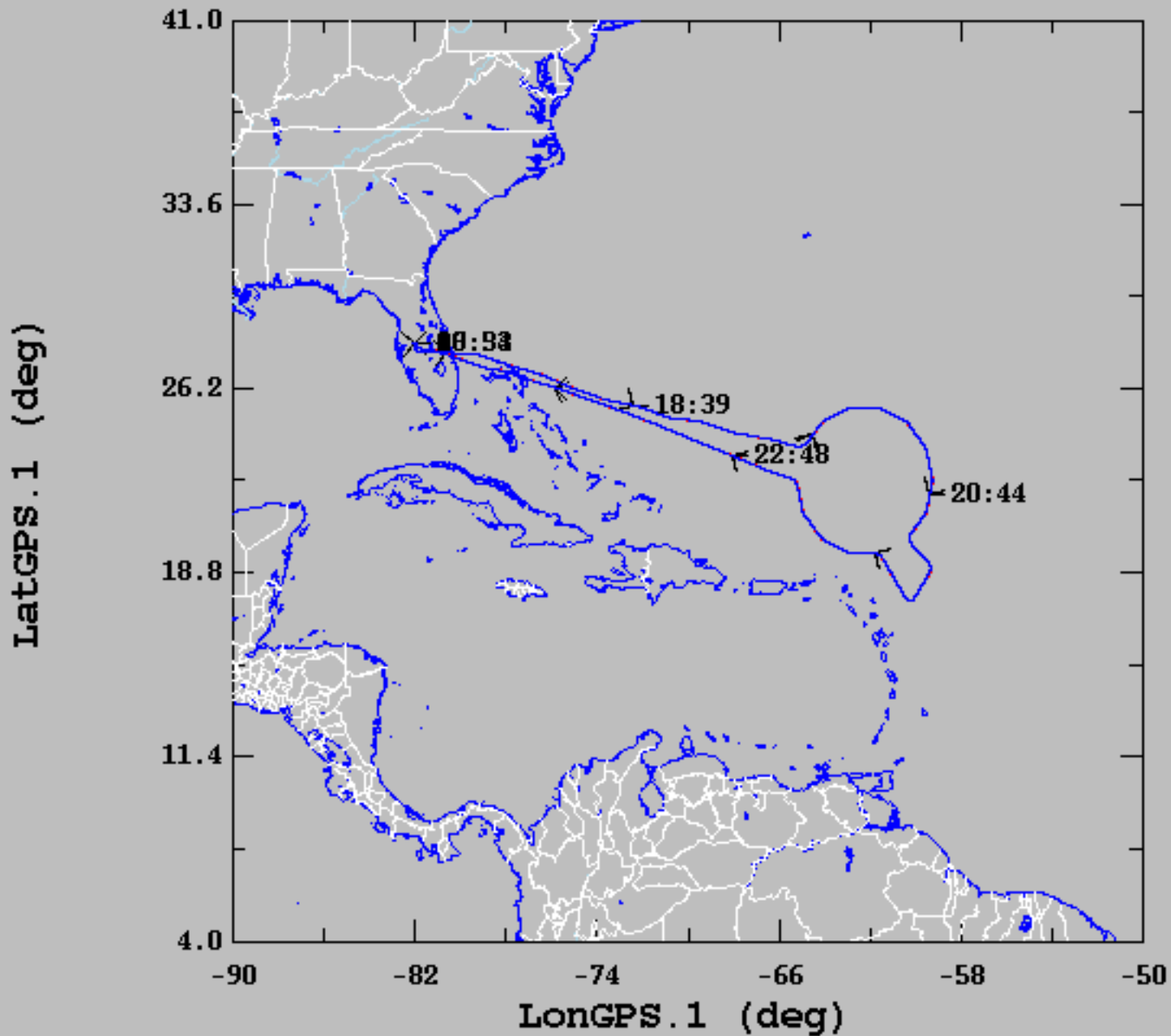
Obs  
Xmitted

Obs  
Missed

# of sondes  
launched

# of bad  
sondes

09/10/2023, 16:34:59-24:53:35



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	24.56	2.87	17.69	27.99
— LonGPS.1 (deg), 1 s/sec	-70.51	7.95	-82.03	-59.21
— LatI.1 (deg), 1 s/sec	24.56	2.87	17.68	27.99
— LonI.1 (deg), 1 s/sec	-70.50	7.95	-82.03	-59.20