

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

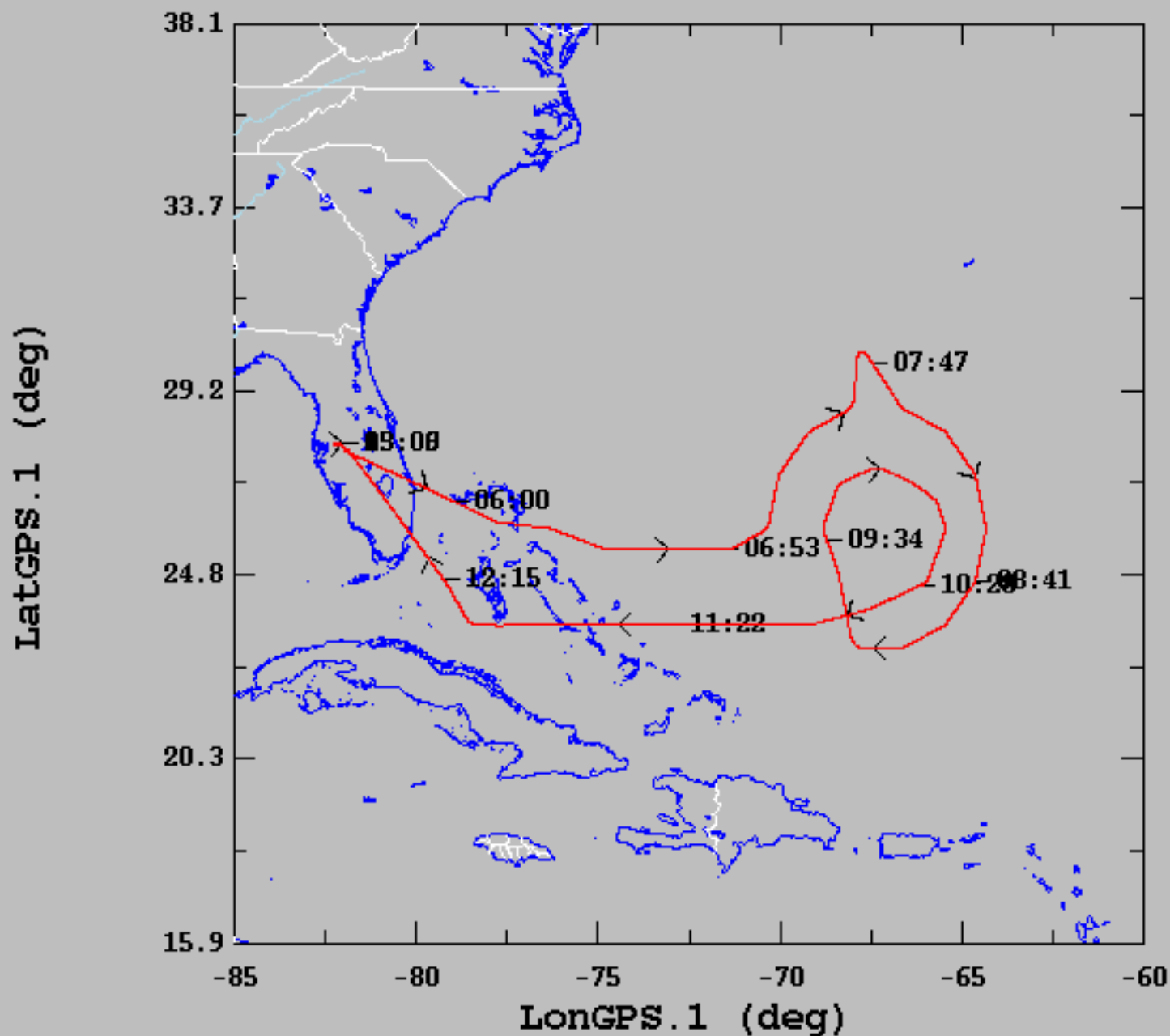
FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION				
FLT ID: 20230913N1	FLT #:	AC: MANSOUR	Scientists:	Pressure	Dropsondes							
From: KLAL	ETD:	CP(s): BHATNAGAR		A/C Takeoff	Good	Bad	Sent					
To: KLAL	ETA:	COZART		ASOS Takeoff	34	2	34					
Block Time	Flight Time	NAV:		A/C Land	BTs							
In: 1309	Land: 1302	FE(s):		ASOS Land	Good	Bad	Sent					
Out: 0523	T/O: 0533	FD(s): HENNING TIMMERS	Visitors:	Storm Number ID: (ie: AL072012)								
Total: 7.8	Total: 7.5	SSA: DYKEMAN		TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)			NOAA92413A LEE					
Sponsoring Org:	NHC	AVAPS: PATEL										
Program:	PMS	SEB:										
Purpose:	Synoptic surv Hurricane Lee		MX:	OBSERVATIONS								

AS REQUIRED BY ORM	Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP
VOLCANIC ASH		x		1			
SCIENCE MISSION WITHIN BDRY LAYER				2			
LACK OF PRECIPITATION				3			
RELATIVE HUMIDITY ≥ 80%				4			
LARGE AIR-SEA TEMP GRADIENT							
HIGH SURFACE WINDS							
LONG FETCH / DURATION OF SFC WND							
SEA SALT ACCRETION FORECAST							
SEA SALT ACCRETION OBSERVED							

\*Highlighted items must be completed before departure.

Remarks:

09/13/2023, 05:06:30-13:09:29



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	25.89	1.87	22.98	30.17
— LonGPS.1 (deg), 1 s/sec	-72.45	6.02	-82.25	-64.31

N49RF ERROR SUMMARY  
20230913N1

Flight ID: 20230913N1

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/2023/MET/20230913N1

Local Met Data	Takeoff KLAL (0532Z)	Landing KLAL (1301Z)
Dynamic Corrections		Yes
AttackAngleIntercept		4.95911
AttackAngleSlope		5.43613
SlipAngleIntercept	1.06	
SlipAngleSlope		6.97813
AttackAngleIntercept2		5.01255
AttackAngleSlope2	5.40932	
SlipAngleIntercept2		0.72
SlipAngleSlope2		7.0494

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	34	34
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 #: 8504990151

ACAT-4 Version = 7.4

## G-IV QC Checklist

<b>Flight ID:</b>	<b>20230913N1</b>
<b>Flight Director(s)</b>	<b>Henning/Timmers</b>

<b>UWZ.d mean:</b>	<b>0.01</b>
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Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	<b>1009 mb</b>	<b>1010 mb</b>
<b>Tower</b>	<b>1014 mb</b>	<b>1015 mb</b>

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

FLID_Mission_Documents.pdf:	
<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"/>	Flight Track
<input type="checkbox"/>	Miscellaneous FD Notes

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

NOTES:

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20230913N1

ASPEN Operator/Flight Director(s): HENNING/TIMMERS

Mission ID: 2413A LEE

Storm Name/Track: Synoptic SURV Hurricane Lee

PG      of     

Sonde #	Ob #	Launch Time HMMSS (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	061942	10612	1	25.8	76.3	DARK	1011.9	SURFACE WIND 040/13	0639	✓
2	2	063053	31511	2	25.4	74.8	↓	1009.6	005/12	0654	✓
3	3	064126	30615	3	25.4	73.3	↓	1006.8	355/26	0706	✓
4	4	065536	10434	4	25.4	71.3	↓	1004.4	350/24	0715	✓
5	5	070333	10072	1	25.9	70.3	↓	1001.7	<del>355/26</del> 355/33	0725	✓ F
6	6	071403	40479	2	27.2	70.0		1003.4	030/31	0736	✓
7	7	072413	30575	3	28.2	69.1		1004.3	055/29	0745	✓
8	8	073336	30415	4	28.9	68.0		1005.9	065/24	0752	✓
9	9	074431	31495	1	30.2	67.7		1008.1	090/22	0812	✓
10	10	075826	50533	2	28.8	66.6		1005.4	080/31	0820	✓
11	11	080810	41029	3	28.2	65.4		1003.7	085/42	0829	✓ F
12	12	081852	31124	4	27.2	64.6		1002.5	105/40	0843	✓
13	13	083014	10439	1	25.9	64.3		1001.2	130/50	0853	✓
14	14	084142	30422	2	24.5	64.6		999.6	160/46	0905	✓
15	15	085159	50589	3	23.5	65.5		998.4	190/31	0917	✓ F
16	16	090218	70566	4	23.0	66.6		1000.2	235/42	0924	✓
17	17	091210	10462	1	23.1	67.9		999.2	255/38	0938	✓
18	18	092757	60049	2	24.8	68.4		988.8	285/46	0949	✓
19		0937		3			NO LAUNCH DETECT				
20	19	093827	10421	4	26.0	68.7	CDO	991.5	LSTWIND 14 m 350/47	0959	✓
21	20	094722	70697	1	27.0	68.3	CDO	994.1	035/37	1012	✓ F
22	21	095535	30571	2	27.4	67.3	CDO	995.4	060/41	1024	✓
23	22	100400	10857	3	26.9	66.2	CDO	991.2	LSTWIND 13 m 085/63	1028	MBL WIND
24	23	101417	30782	4	26.0	65.4	CDO		DIED at 928 mb LAST WIND 140/78	090/78	090/78
25	24	102544	50582	1	24.7	65.9	CDO	990.3	190/61	1049	✓ F
26	25	103707	70702	2	24.1	67.2	CDO	992.6	230/55	1114	✓
27		1052		3			BKN		NO PTH		
28	26	105340	31619	4	23.6	69.3	BKN	1001.9	290/30	1115	✓
29	27	110505	31498	1	23.5	70.8	SCT	1005.0	300/20	1127	✓
30	28	111636	31490	2	23.5	72.3	SCT	1007.2	300/17	1143	✓
31	29	112809	31126	3	23.5	73.8	SCT	1008.7	345/18	1149	✓ F
32	30	113633	10878	4	23.6	74.9	SCT	1009.6	360/13	1205	✓
33	31	115028	30574	1	23.5	76.6	SCT	1010.9	020/13	1211	✓
34	32	115800	10616	2	23.5	77.6	SCT	1011.5	NO WINDS above 273 m SFC 015/9		
35	33	120513	10450	3	23.6	78.5	SCT	1012.1	005/12	1225	✓
36	34	121435	40562	4	24.6	79.1	SCT	1013.3	LAST REPORT 045/14	1233	✓
37											
38											

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

COMMENTS:

Obs Xmitted 34 Obs Missed 0 # of sondes launched 36 # of bad sondes 2