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

FLIGHT INFORMATION

FLT ID:	20230912N1	FLT #:	
From:	KLAL	ETD:	0530
To:	KLAL	ETA:	0930
Block Time		Flight Time	
In:	1345	Land:	1339
Out:	0527	T/O:	0537
Total:	8.3	Total:	8.0
Sponsoring Org:	NHC		
Program:	PHS		
Purpose:	Synoptic surv Hurricane Lee		

CREW MANIFEST

AC:	MANSOUR	Scientists:
CP(s):	BHATNAGAR COZART	
NAV:		
FE(s):		
FD(s):	HENNING TIMMERS	
SSA:	DYKEMAN	Visitors:
AVAPS:	PATEL	
SEB:		
MX:		

MISSION INFORMATION

Pressure		Dropsondes		
		Good	Bad	Sent
A/C Takeoff		31	1	31
ASOS Takeoff		BTs		
		Good	Bad	Sent
A/C Land				
ASOS Land				

Storm Number ID: (ie: AL072012)	
TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)	NOAA9 2013A LEE

AS REQUIRED BY ORM

	Y	N
VOLCANIC ASH		x
SCIENCE MISSION WITHIN BDRY LAYER		
LACK OF PRECIPITATION		
RELATIVE HUMIDITY ≥ 80%		
LARGE AIR-SEA TEMP GRADIENT		
HIGH SURFACE WINDS		
LONG FETCH / DURATION OF SFC WND		
SEA SALT ACCRETION FORECAST		
SEA SALT ACCRETION OBSERVED		

REMARKS

OBSERVATIONS

Fix Number	Obs Number	Fix Time	SLP
1			
2			
3			
4			
Pennies:			

*Highlighted items must be completed before departure.

Remarks: FOX WX (212) 301-3542 / 3523
Britta and Jason

N49RF ERROR SUMMARY
20230912N1

Flight ID: 20230912N1

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.1
Differential Sideslip Pressure Probe	PDBETA.1
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure Probe	PQBETA.1

Flight Directory acdata/2023/MET/20230912N1

Local Met Data	Takeoff KLAL (0537Z)	Landing KLAL (1338Z)
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.

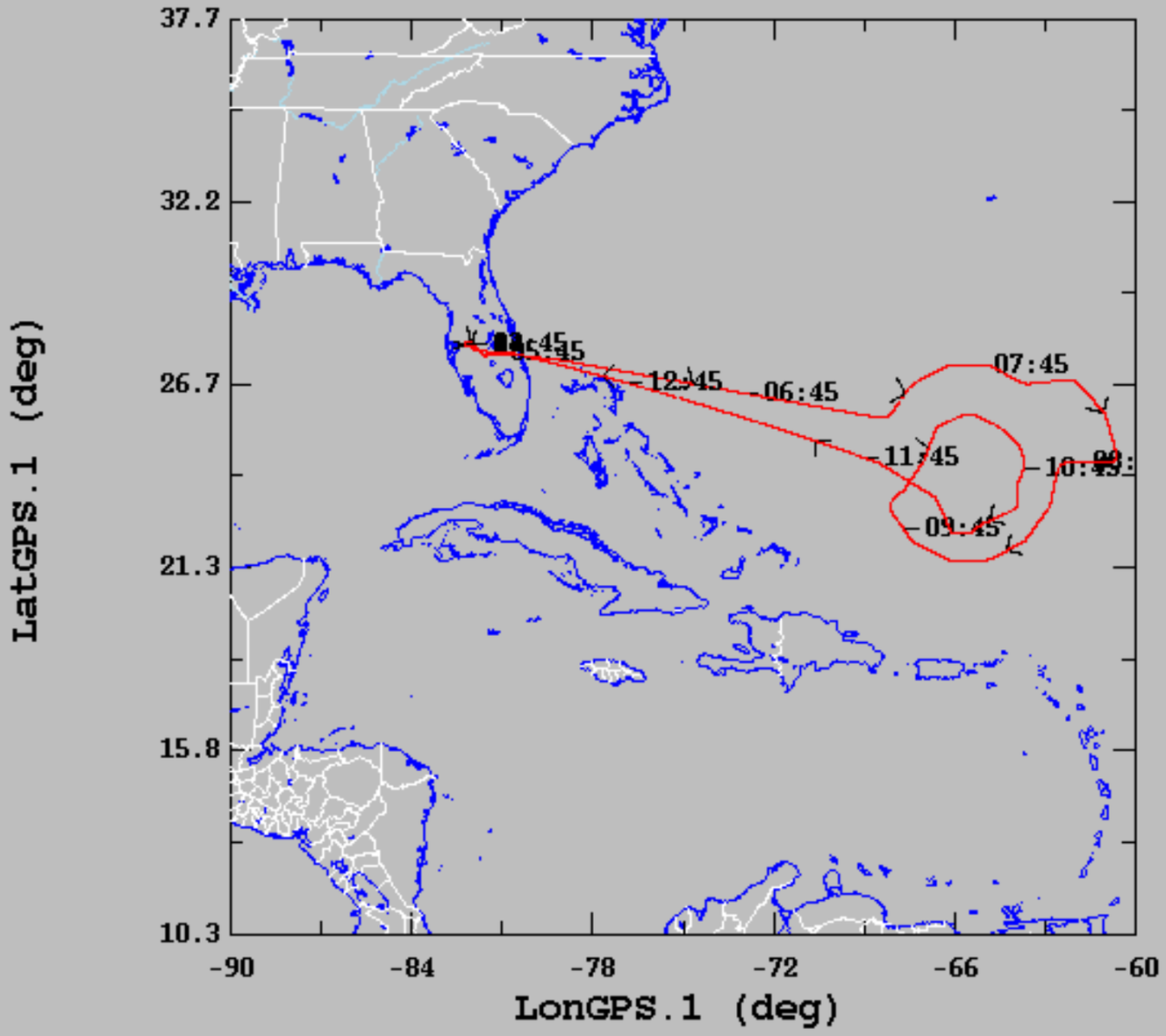
Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

Expendable Type	# deployed	# good	# transmitted
Dropsondes	32	31	31
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

09/12/2023, 04:45:59-13:45:23



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	25.62	1.92	21.48	27.99
LonGPS.1 (deg), 1 s/sec	-70.91	6.94	-82.23	-60.59

G-IV QC Checklist

Flight ID:	20230912N1
Flight Director(s)	Henning/Timmers

UWZ.d mean:	0.01

Pressure Comparison		
	T/O	Land
Aircraft	1011 mb	1012 mb
Tower	1017 mb	1017 mb

	Raw 1Hz Mean File Parameters				C File Parameters	
☐ 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.1	☑ GsYI.1	☑ GsZI.1	☑ GsGPS.1	☑ GSXref	
	☑ GsXI.2	☑ GsYI.2	☑ GsZI.2	☑ GsGPS.2	☑ GSYref	
	☑ GsXI.3	☑ GsYI.3	☑ GsZI.3	☐ GsGPS.3	☑ GSZref	
	☑ GsXGPS.1	☑ GsYGPS.1	☑ GsZGPS.1			
	☑ GsXGPS.2	☑ GsYGPS.2	☑ GsZGPS.2			
	☐ GsXGPS.3	☐ GsYGPS.3	☐ GsZGPS.3			
☐ Lat / Lon	☑ LatGPS.1	☑ LatI.1	☑ LonGPS.1	☑ LonI.1	☑ LATref	
	☑ LatGPS.2	☑ LatI.2	☑ LonGPS.2	☑ LonI.2	☑ LONref	
	☑ LatGPS.3		☑ LonGPS.3			
☐ Pressure	☑ PDALPHA.1	☑ PQALPHA.1	☑ PQM.1	☑ PSM.1	X PDLAPHAref	☑ PQMref
	☑ PDALPHA.2	☑ PQALPHA.2	☑ PQM.2	☑ PSM.2	X PDBETAref	☑ PQ.c
	☑ PDBETA.1	X PQBETA.1			X PQALPHAref	☑ PSMref
	☑ PDBETA.2	X PQBETA.2			X PQBETAref	☑ PS.c
☐ Air Speed	☑ CasADDU.1	☑ TasADDU.1			☑ IAS.d	☑ TAS.d
☐ 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		
☐ Temp / Dewpt	☑ TTM.1	☑ TTM.4	X TDM.1		☑ TD.c	☑ TTMref
	☐ TTM.2		☑ TDM.2		☑ TDMref	☑ TA.d
	☑ TTM.3					
☐ Misc. (Must check)					☑ UWZ.d	☑ WS.d
					☐ DPJ_WSZ	☑ WD.d
					☐ HUM	

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	☐
Valid	☑
Errors (note)	X

NOTES:

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20230912N1 ASPEN Operator/Flight Director(s): HENNING/TIMMERS

Mission ID: 2013A LEE Storm Name/Track: Synoptic Surv Hurricane 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?
									SURFACE WIND		
1	1	060350	21156	1	27.4	78.9	DARK	1014.7	110/8	0630	√√
2	2	061437	50738	2	27.2	77.3	↓	1015.9	095/14	0644	√√
3	3	062529	31330	3	26.9	75.8	↓	1014.9	Fast fall rate but OK 065/11	0647	√√
4	4	063627	21157	4	26.7	74.3		1014.3	035/13	0703	√√
5	5	064720	20317	1	26.4	72.8		1013.8	040/21	0709	√√ F
6	6	065815	50406	2	26.2	71.2		1011.5	025/22	0717	√√
7	7	070910	20016	3	25.9	69.7		1009.0	025/22	0744	√√
8	8	072020	50711	4	25.7	68.2		1006.0	020/30	0745	√√
9	9	073020	50571	1	26.8	67.3		1006.9	050/29	0749	√√
10	10	074005	50513	2	27.3	66.1		1007.3	055/32	0759	√√
11	11	074943	21110	3	27.3	64.8		1007.4	075/33	0810	√√ F
12	—	0759	—	4	—	—	—	NO	LAUNCH DETECT	—	—
13	12	080049	40872	1	26.8	63.5		1007.1	095/35	0822	√√
14	13	081110	21169	2	26.8	62.0		1008.8	110/26	0843	√√
15	14	082151	50538	3	25.9	61.0		1009.8	135/17	0845	√√
16	15	083349	60076	4	24.5	60.7		1010.1	135/27	0910	√√
17	16	084816	31049	1	24.3	62.4		1004.8	125/24	0912	√√
18	17	085910	60075	2	23.1	62.8		1004.2	165/27	0929	√√
19	18	091008	50012	3	22.0	63.7		1002.6	190/30	0938	√√
20	19	092344	20224	4	21.5	65.2		1002.8	220/46	0954	√√
21	20	093118	40131	1	21.5	66.2		1002.8	250/35	1003	√√
22	21	094146	40682	2	22.1	67.4	CDO	1002.4	290/34	1004	√√
23	22	095215	20350	3	23.1	68.1	CDO	1003.3	320/32	1016	√√ F
24	23	100553	30704	4	24.4	67.0	CDO	—	Sonde died at 965 mb	1029	√ ← 810/8 @ 968 930 mb
25	24	101535	30949	1	25.5	66.5	CDO	999.6	025/41	1039	√√
26	25	~~1024~~	20050	2	25.9	65.5	CDO	999.0	MANUAL ELD edit 060/55	1102	√√
27	26	103253	40684	3	25.4	64.4	CDO	999.3	090/48	1114	√√
28	27	104340	30713	4	24.4	63.6	CDO	999.8	115/47	1117	√√
29	28	105316	40122	1	23.3	63.9	CDO	996.0	155/57	1119	√√
30	29	110654	40926	2	22.5	65.2	CDO	996.0	220/43	1132	√√
31	30	112300	21172	3	23.3	66.6	CDO	990.7	LST WND 13 290/48	1147	√√
32	31	114114	40612	4	24.4	68.5	CDO	1004.0	LOST humidity @ 260 mb	1201	√√
33											
34											
35											
36											
37											
38											

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

COMMENTS:

Obs Xmitted 31 Obs Missed Ø # of sondes launched 32 # of bad sondes 1