



AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Kalen / Henning  
Phone #: 863-500-3962

ACAT-4 Version = 7.3

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20210827N2	FLT #:		AC:	Mansour	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:		CP(s):	Norman		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:		NAV:					<b>33</b>	<b>0</b>	<b>33</b>
Block Time		Flight Time		FE(s):			ASOS Takeoff		BTs		
In:	<b>0125Z</b>	Land:	<b>0119Z</b>	FD(s):	Kalen		A/C Land		Good	Bad	Sent
Out:	<b>1722Z</b>	T/O:	<b>1732Z</b>	FD(s):	Henning		ASOS Land				
Total:	<b>8.1</b>	Total:	<b>7.8</b>	SSA:	Miller	Visitors:					
Sponsoring Org:		NWS		AVAPS:	Patel		Storm Number ID:		<b>AL0920221</b>		
Program:				SEB:			(ie: AL072012)				
Purpose:		Hurricane Surveillance		MX:			TCPOD/WSPOD Mission		<b>NOAA9 0509A IDA</b>		
							(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					x		<b>1</b>				
SCIENCE MISSION WITHIN BDRY LAYER					x						
LACK OF PRECIPITATION					x		<b>2</b>				
RELATIVE HUMIDITY ≥ 80%					x						
LARGE AIR-SEA TEMP GRADIENT					x		<b>3</b>				
HIGH SURFACE WINDS					x						
LONG FETCH / DURATION OF SFC WND					x		<b>4</b>				
SEA SALT ACCRETION FORECAST					x						
SEA SALT ACCRETION OBSERVED					x		<b>Pennies:</b>				

\*Highlighted items must be completed before departure.

Remarks:


## G-IV QC Checklist

<b>Flight ID:</b>	<b>20210827N2</b>
<b>Flight Director(s)</b>	<b>Kalen /Henning</b>

<b>UWZ.d mean:</b>	<b>0.01</b>
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Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	<b>1013.3</b>	<b>1012.1</b>
<b>Tower</b>	<b>1013.1</b>	<b>1010.7</b>

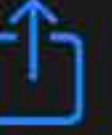
	Raw 1Hz Mean File Parameters					C File Parameters	
<input checked="" type="checkbox"/> Accelerometer	<input checked="" type="checkbox"/> AccAXI.1	<input checked="" type="checkbox"/> AccAYI.1	<input checked="" type="checkbox"/> AccAZI.1			<input checked="" type="checkbox"/> AccZref	
	<input checked="" 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 checked="" 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"/> AltBCADDU.2	<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"/> ALTPA.d	
	<input checked="" type="checkbox"/> AltGPS.3	<input checked="" type="checkbox"/> AltI.3	<input checked="" type="checkbox"/> AltRA.1			<input checked="" type="checkbox"/> ALTGA.d	
<input checked="" 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"/> GsGPS.2	<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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/> Misc. (Must check)						<input checked="" type="checkbox"/> UWZ.d	<input checked="" type="checkbox"/> WS.d
						<input checked="" type="checkbox"/> DPJ_WSZ	<input checked="" type="checkbox"/> WD.d
						<input checked="" 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 checked="" type="checkbox"/>	Miscellaneous FD Notes

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

### NOTES:

.1 and .2 GPS parameters data "stair steps"  
PDBETA.1 & PDBETA.2 unrepresentative due to spare radome  
PQBETA.1 & PQBETA.2 unrepresentative due to spare radome  
PQALPHA.2 large negative spike towards end of flight  
All flight level wind speed and direction suspect due to spare radome  
TDM parameters show large spike at takeoff  
TTM.3 oscillates  
TDM.1 unrepresentative



AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20210827N2 ASPEN Operator/Flight Director(s): KALEN / HENNING

Mission ID: 0509A Storm Name/Track: IDA 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	180039	10653	1	28.0	79.0	UCST	1016.4	<u>SURFACE WIND</u> 120/16 RIDGE	1818	✓
2	2	181400	40411	2	29.0	77.4	BKN	1017.4	075/23 RIDGE	1839	✓
3	3	182705	40457	3	29.0	75.5	SCT	1017.9	110/15 RIDGE	1846	✓
4	4	183954	30499	4	28.9	73.6	SCT	1017.4	085/20 RIDGE	1858	✓
5	5	185424	20160	1	27.1	73.6	SCT	1016.2	095/14 RIDGE	1916	✓
6	6	190959	30458	2	27.0	75.5	SCT	1016.1	090/14 RIDGE	1935	✓
7	7	192617	21171	3	27.0	77.5	UCST	1015.4	115/17 RIDGE	1948	✓
8	8	194941	50255	4	25.0	79.4	UCST	1012.5	105/10	2009	✓
9	9	200529	70519	1	24.5	80.8	UCST	1013.1	100/25 CPA	2027	✓
10	10	201625	50262	2	24.7	82.1	UCST	1012.1	105/16 CPA	2036	✓
11	11	202602	50309	3	25.4	83.3	UCST	1011.2	100/20	2048	✓
12	12	203526	40421	4	25.5	84.5	BKN	1011.6	085/19	2108	✓
13	13	204654	20798	1	26.9	85.1	SCT	1013.2	090/16 GULF	2111	✓
14	14	210153	40409	2	26.3	86.8	CBs	1013.0	015/18 GULF	2125	✓
15	15	211620	70386	3	25.1	87.8	SCT	1011.2	055/14 GULF	2142	✓
16	16	213118	40854	4	24.8	86.0	BKN	1009.9	070/20 GULF	2201	✓
17	17	214132	50325	1	23.8	86.6	UCST	1009.6	065/06 GULF	2204	✓
18	18	215752	50438	2	23.6	88.8	SCT	1010.5	115/13 GULF	2224	✓
19	19	220644	40675	3	22.6	88.7	SCT	1009.8	075/11 GULF	2228	✓
20	20	222108	10867	4	22.4	86.9	SCT	1009.6	050/12 OUTER	2247	✓
21	21	223115	20014	1	21.4	86.5	SCT	1009.2	025/18 OUTER	2301	✓
22	22	224403	40425	2	20.1	85.7	BKN	1008.8	045/9 OUTER	2310	✓
23	23	225509	50557	3	19.6	84.5	SCT	1008.3	100/12 OUTER	2323	✓
24	24	230608	50268	4	19.6	83.2	SCT	1009.7	265/1 OUTER	2330	✓
25	25	231557	70517	1	20.2	82.2	UCST	1009.3	190/12 OUTER	2342	✓
26	26	232709	40656	2	21.2	81.4	UCST	1009.4	165/27 OUTER	2349	✓
27	27	233712	70527	3	22.0	82.3	CDO	1008.2	180/32 INNER RING	0001	✓
28	28	235205	21173	4	21.1	83.9	CDO	1008.5	LSTWIND 27m INNER	0013	✓
29	29	000031	50517	1	21.5	84.9	BKN	1008.4	360/14 INNER	0021	✓
30	30	000932	60650	2	22.5	85.4	CDO	1008.4	045/18 INNER	0033	✓
31	31	001841	10673	3	23.6	84.9	CDO	1008.9	045/30 INNER	0038	✓
32	32	002751	10678	4	24.0	83.9	CDO	1010.3	055/22 INNER	0057	✓
33	33	003612	21174	1	23.7	82.9	CDO	1009.3	080/42 INNER	0014	✓
34											
35											
36											
37											
38											

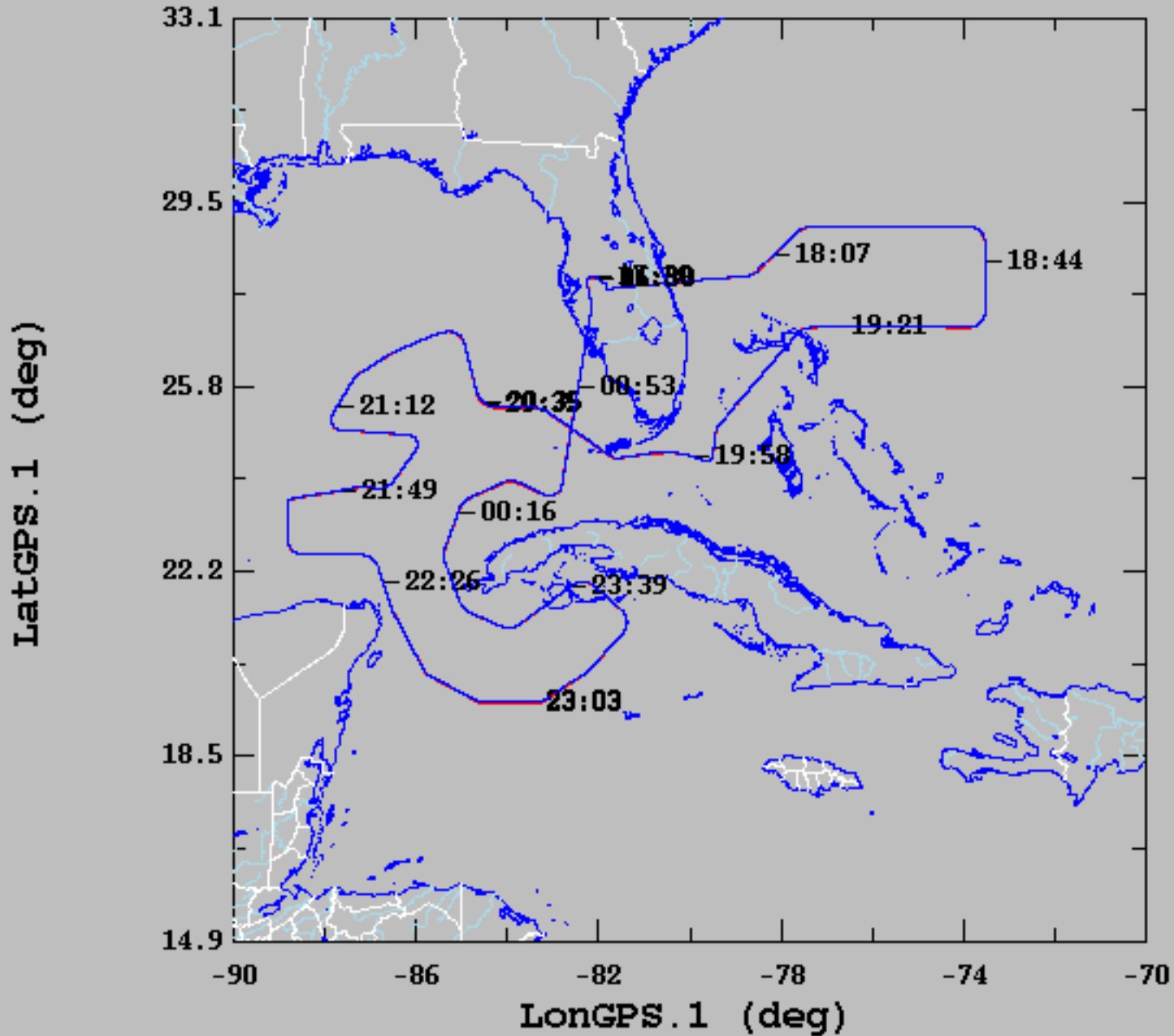
LAST REPORT

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

COMMENTS:

Obs Xmitted 33 Obs Missed 0 # of sondes launched 33 # of bad sondes 0

2021-08-27, 16:53:55-25:30:41



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	25.07	2.74	19.58	29.01
— LongGPS.1 (deg), 1 s/sec	-82.29	3.91	-88.80	-73.50
— LatI.1 (deg), 1 s/sec	25.06	2.75	19.57	29.01
— LonI.1 (deg), 1 s/sec	-82.29	3.91	-88.80	-73.50