



Flight Director: Henning / Kalen  
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:	20210702N1	FLT #:		AC:	Mansour	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1730Z	CP(s):	Varwig		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	0200Z								
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	<b>0140Z</b>	Land:	<b>0130Z</b>	FE(s):			A/C Land		Good	Bad	Sent
Out:	<b>1725Z</b>	T/O:	<b>1732Z</b>	FD(s):	Henning						
Total:	<b>8.3</b>	Total:	<b>8.0</b>	SSA:	Defeo	Visitors:	ASOS Land				
				AVAPS:	Underwood						
Sponsoring Org:				SEB:			Storm Number ID:		<b>AL032021</b>		
Program:							(ie: AL072012)				
Purpose:								TCPOD/WSPOD Mission (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>20210702N1</b>
<b>Flight Director(s)</b>	<b>Henning / Kalen</b>

<b>UWZ.d mean:</b>	<b>0.13</b>
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Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	<b>1011.4</b>	<b>1010.9</b>
<b>Tower</b>	<b>1012.1</b>	<b>1011.9</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"/> GsGPS.3	<input checked="" type="checkbox"/> GSYref	
	<input checked="" type="checkbox"/> GsXI.3	<input checked="" type="checkbox"/> GsYI.3	<input checked="" type="checkbox"/> GsZI.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, .2 and .3 parameters still producing stair stepping data
TTM.3 oscillating
TTM.4 trending ~1 deg C warmer
TDM.1 unrepresentative

AOC GPS Dropwindsonde Log (updated Mar)

Flight ID: 20210702N1

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

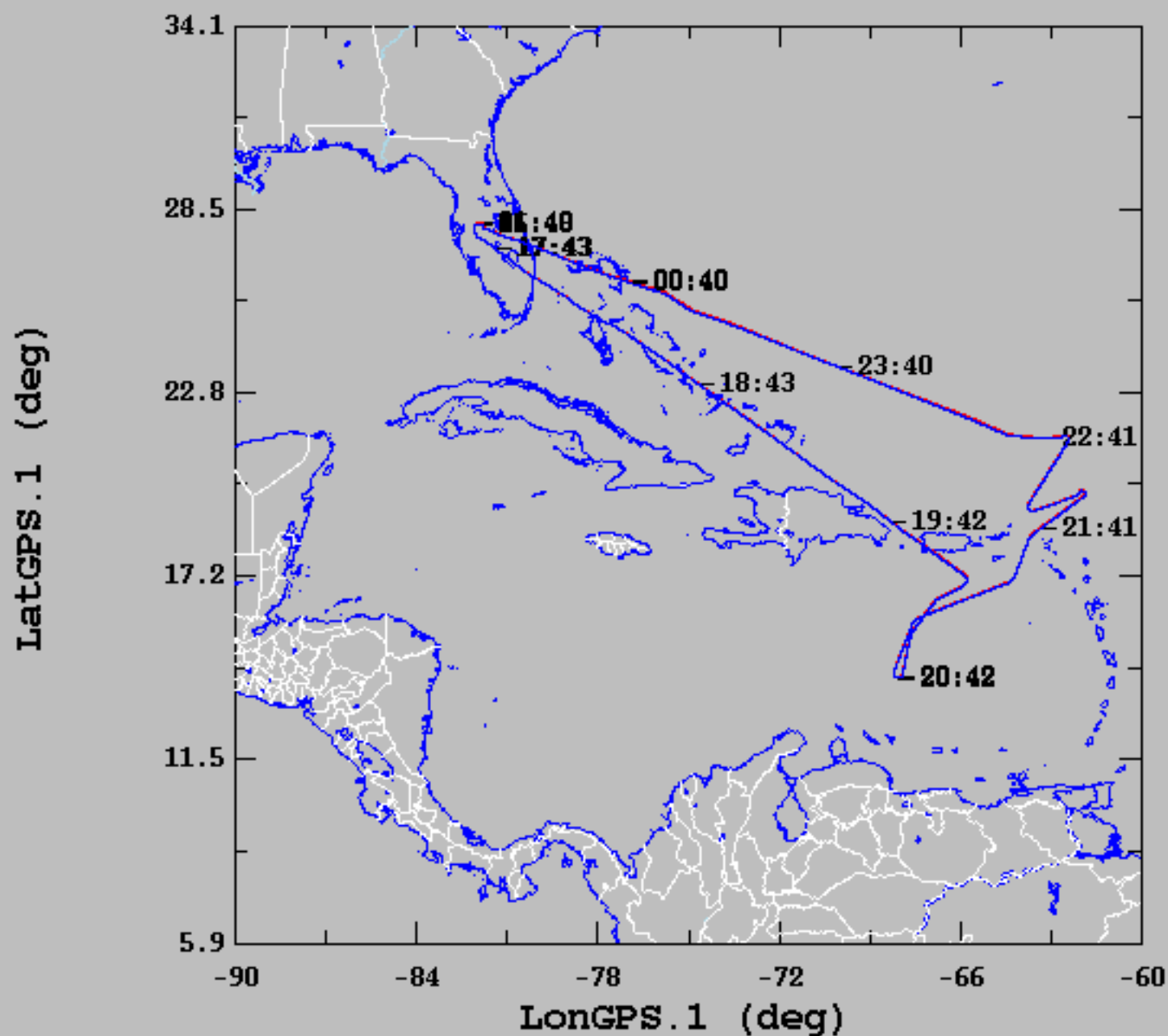
Mission ID: 0305A ELSA

Storm Name/Track: HURRICANE ELSA

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

Sonde #	Ob #	Time ( )	Sonde ID ( )	Ch	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?	
1	1	182940	70140	1	24.0	76.0	RIDGE	1015.8	<del>SFC WIND</del> 115/18	1849	✓	
2	2	184019	40717	2	23.3	74.9	↓	1015.7	140/11	1902	✓	
3	3	185106	70598	3	22.5	73.7	↓	1016.6	125/14	1912	✓	
4	4	190152	30567	4	21.7	72.6		1016.3	105/13	1924	✓	
5	5	191258	10506	1	20.9	71.4		1015.8	095/18	1937	✓	
6	6	192404	50616	2	20.1	70.2		1015.8	105/18	1954	✓	
7	7	193512	11644	3	19.4	69.0		1015.9	100/14	1958	✓	
8	—	1946	—	4	FAST FALL INITIALLY THEN SETTLED AFTER BACKUP							
9	8	194726	40797	1	18.5	67.8		1014.9	070/19	2010	✓	
10	9	200916	50293	2	17.0	65.8	CIRCLE	1012.8	075/28	2034	✓	
11	10	201844	40722	3	16.4	66.8	↓NW	1012.5	065/27	2106	✓	
12	11	202952	11645	4	15.4	67.6	↓	1012.3	065/20	2112	✓	
13	12	204122	40719	1	14.1	67.9	W	1011.2	060/18	2122	✓	
14	13	212715	50615	2	17.0	64.3	RIDGE	1013.0	085/31	2156	✓	
15	14	215452	11607	3	19.6	61.9	↓	1018.0	105/23	2220	✓	
16	15	221320	11608	4	19.2	63.7	↓	1016.9	095/30	2237	✓	
17	16	223230	10180	1	21.3	62.4		1019.1	090/20	2253	✓	
18	17	225025	10505	2	21.5	64.4		1019.1	100/21	2316	✓	
19	18	230338	60919	3	22.1	65.9		1019.8	095/19	2328	✓	
20	19	231526	10655	4	22.6	67.2		1019.1	105/19	2338	✓	
21	—	2327	—	1	FAST FALL							
22	20	232818	40048	2	23.1	68.7		1019.2	105/14	2356	✓	
23	21	233936	20309	3	23.6	69.9		1017.9	125/16	2359	✓	
24	—	2351	—	4	FAST FALL							
25	22	235207	11591	1	24.1	71.3		1018.7	125/15	0015	✓	
26	23	000302	40721	2	24.5	72.6		1018.5	145/17	0024	✓	
27	24	001442	40798	3	25.0	73.9		1017.7	140/20	0047	✓	
28	25	002620	50668	4	25.6	75.3		1016.5	150/17	0048	✓	
29	26	004921	40648	1	26.5	77.9		1014.6	180/12 LAST REPORT	0108	✓	
30												
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2021-07-02, 16:43:58-25:40:09



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	22.39	4.13	14.04	27.99
— LongGPS.1 (deg), 1 s/sec	-71.92	6.65	-82.06	-61.84
— LatI.1 (deg), 1 s/sec	22.40	4.12	14.05	28.02
— LonI.1 (deg), 1 s/sec	-71.91	6.64	-82.06	-61.85