

## U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20210703H1	FLT #:		AC:	Abitbol	Scientists:	Pressure		Dropsondes		
From:	TNCA	ETD:	1530Z	CP(s):	Shaw		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	2300Z		Stateler				<b>18</b>	<b>0</b>	<b>18</b>
<b>Block Time</b>		<b>Flight Time</b>		NAV:	Urato	ASOS Takeoff		<b>BTs</b>			
In:	<b>22:51</b>	Land:	<b>22:42</b>	FE(s):	Darby			A/C Land		Good	Bad
Out:	<b>15:31</b>	T/O:	<b>15:38</b>	FD(s):	Heystek	ASOS Land				<b>0</b>	<b>0</b>
Total:	<b>7.3</b>	Total:	<b>7.1</b>	SSA:	Mascaro			Visitors:	Storm Number ID:		<b>AL052021</b>
Sponsoring Org:	AOC			AVAPS:	Warnecke	(ie: AL072012)					
Program:	PRX			SEB:	Kregelka	TCPOD/WSPOD Mission		<b>0605A ELSA</b>			
Purpose:	Hurricane Elsa			MX:	San Soucci	(ie: NOAA2 2418A SANDY)					
AS REQUIRED BY ORM				REMARKS			OBSERVATIONS				
		Y	N				Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X		<b>1</b>				
SCIENCE MISSION WITHIN BDRY LAYER				X			<b>2</b>				
LACK OF PRECIPITATION				X			<b>3</b>				
RELATIVE HUMIDITY ≥ 80%				X			<b>4</b>				
LARGE AIR-SEA TEMP GRADIENT					X						
HIGH SURFACE WINDS					X						
LONG FETCH / DURATION OF SFC WND					X						
SEA SALT ACCRETION FORECAST					X						
SEA SALT ACCRETION OBSERVED					X						
							<b>Pennies:</b>				
*Highlighted items must be completed before departure.											
Remarks:											



Flight Director: Hathaway / Parrish  
Phone #: 863-500-3911

ACAT-4 Version = 7.3

## P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - minimal mission impact.
--------------------	---

Flight ID:	20210703H1
Flight Director(s):	Hathaway / Parrish
Mission:	Tasked/Operational
UWZ.d mean:	0.27

Pressure Comparison		
	T/O	Land
Aircraft	1011.9	N/A
Tower	TNCA - 1012.0	KLAL - 1010.9

	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✓ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✓ AccAYI-GPS.2	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI-GPS.1 ✓ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✓ AccZfilter-GPS.2	✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3 <input type="checkbox"/> AltGPS.4	✓ Alti-GPS.1 ✓ Alti-GPS.2	✓ AltPaADDU.1 ✓ AltBCADDU.1	✓ AltRA.1 ✓ AltRA.2	✓ ALTref ✓ ALTPA.d ✓ ALTGA.d	✓ AltRA1.c ✓ AltRA2.c
✓ Ground Speed	✓ GsXI-GPS.1 ✓ GsXI-GPS.2	✓ GsYI-GPS.1 ✓ GsYI-GPS.2	✓ GsZI-GPS.1 ✓ GsZI-GPS.2			
✓ Lat / Lon	✓ LatGPS.1 ✓ LatGPS.2 ✓ LatGPS.3 ✓ LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	✓ LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3 ✓ LonGPS.4	✓ LonI-GPS.1 ✓ LonI-GPS.2	✓ LATref ✓ LONref	
✓ Pressure	✓ PDALPHA.1 ✓ PDALPHA.2 ✓ PDBETA.1 ✓ PDBETA.2	✓ PQALPHA.1 ✓ PQBETA.1	<input checked="" type="checkbox"/> PQM.1 ✓ PQM.2 ✓ PQM.3 ✓ PQM.4	✓ PSM.1 ✓ PSM.2 ✓ PTM.1	✓ PDLAPHaref ✓ PDBETAref ✓ PQALPHaref ✓ PQBETAref	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1	✓ IasADDU.1			
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 <input type="checkbox"/> PitchI.3	✓ PitchRatel.1 ✓ PitchRatel.2 <input type="checkbox"/> PitchRatel.3	✓ RollI.1 ✓ RollI.2 <input type="checkbox"/> RollI.3	✓ RollRatel.1 ✓ RollRatel.2 <input type="checkbox"/> RollRatel.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 <input checked="" type="checkbox"/> TTM.3	<input checked="" type="checkbox"/> TDM.1 ✓ TDM.2 <input checked="" type="checkbox"/> TDM.3	✓ TRadD.1 ✓ TRadS.1 <input type="checkbox"/> TRadU.1	✓ TD.c ✓ TDMref ✓ TTMref ✓ TA.d		
✓ Misc. (Must check)					✓ UWZ.d ✓ DPJ_WSZ ✓ HUM	✓ WS.d ✓ WD.d

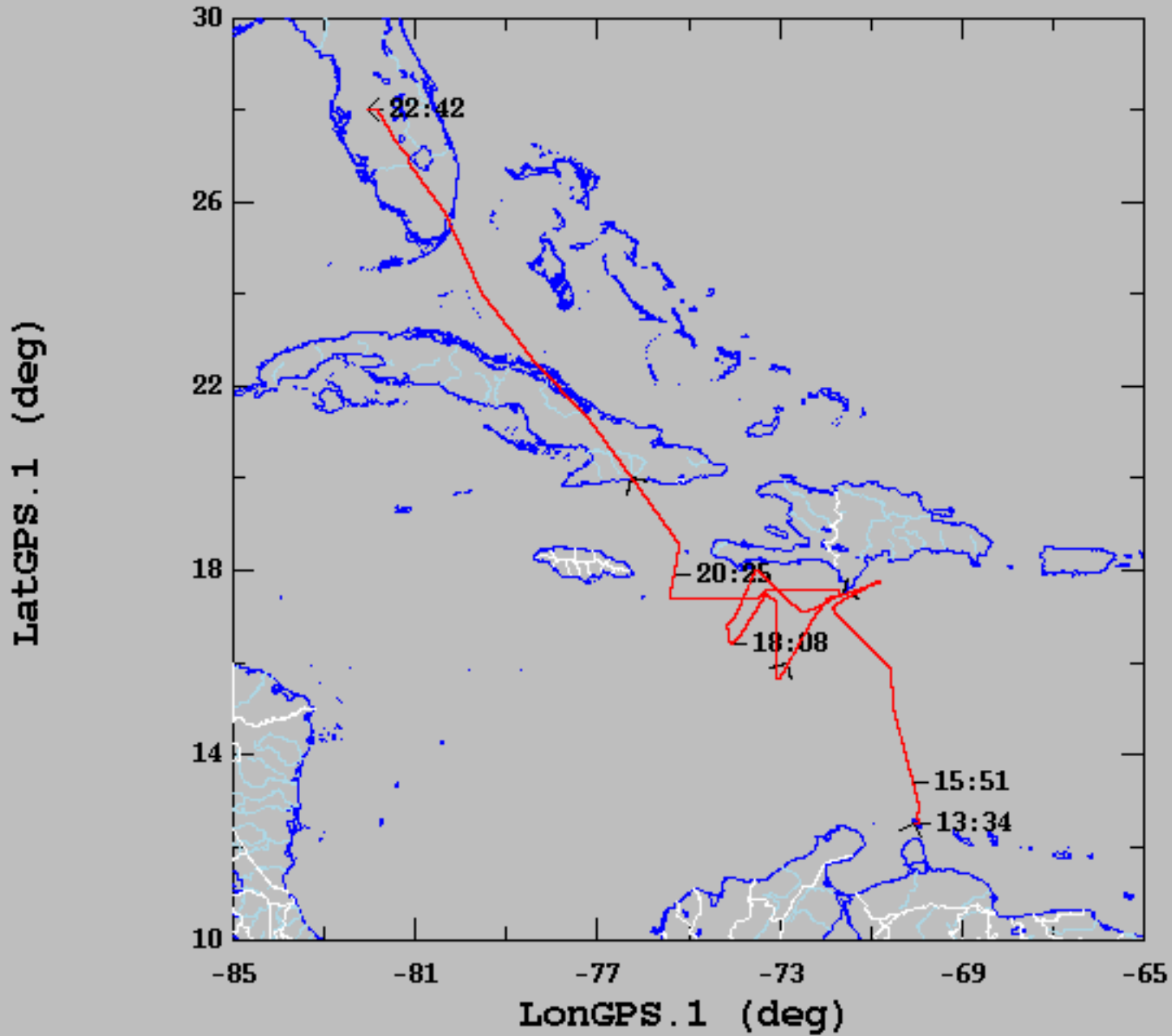
FLID_Mission_Documents.pdf:
✓ Error Summary
✓ Crew Manifest
✓ QC Checklist
✓ Dropwindsonde Log(s) - AVAPS and FD if completed
✓ Flight Track
✓ Miscellaneous FD Notes

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

NOTES:
<p>- PQM.1 unrepresentative around hour 8 of flight when unrepresentative spike occurred.</p> <p>- TDM.2 used as reference but become unrepresentative towards hour 8 of flight. TDM.1 also has unrepresentative spikes occasionally throughout flight.</p>

AOC GPS Dropwindsonde Log										
Storm: Elsa	Flight ID:	20210703H1			Dropsonde Scientist: Sellwood / Aberson		AVAPS Operator: Warneke			
Mission ID	0605A ELSA				Take off:					
Sonde #	Ob #	Launch Time	Channel	Sonde ID	Lat/Lon		Sfc. Pressure	Lowest Wind	Environment	
1	1	1624		203241007	16.06N 70.73W		1013.1	145/28 10m	IP SE	
good drop no manual qc needed										
2	2	1636		203231089	16.7089N 71.3845W		1011.4	135/29 10m	Mid SSE	
late launch detect, manually fixed launch lat/lon										
3	3	1643		203310282	17.1092N 71.7769W		1010.4	155/36 10m	Center turn	
Not center										
4	4	1651		203231091	17.4464N 71.4169		1013.2	130/42 10m	Mid NE	
good drop no manual qc ~50kt wind from flight lev to sfc										
5	5	1700		203310610	17.7752N 70.8127W		1018.9	110/26 10m	End NE	
post-splash data not caught by ASPEN end at 295.25										
6	6	1729		203310509	17.2297N 72.644W		1002.6	165/17 12m	Center	
7	7	1744		202730017	17.9851N 73.4498W		1011.7	070/26 10m	End NW	
good drop no manual qc										
8	8	1757		20320780	17.0846N 73.9135W		1010.8	005/15 10m	End W	
post splash data ended at 288.50										
9	9	1807		203540090	16.4413N 74.0689W		1011.3	010/12 10m	End SW	
post splash data ended at 298.50										
10	10	1819		203250847	16.9894N 73.5944W		1009.7	005/26 10m	Mid SW	
good drop no manual qc										
11	11	1843		203310027	16.5407N 73.0465W		1009.2	205/11 10m	Mid S	
good drop no manual qc										
12	12	1857		203231075	15.6654N 73.0456W		1010.6	140/04 10m	End S	
post splash data set end 289.50										
13	13	1930		202730129	17.5815N 71.7790W		1011.7	110/33 10m	End E	
good drop no manual qc										
14	14	19421		203310029	17.5858N 72.7088W		1009.4	100/49 10m	Mid E	
good drop no manual qc										
15	15	1954		203431548	17.3850N 73.5075W		1000.2	110/22 10m	Center	
post splash data ended at 300.25										
16	16	2005		203240578	17.3773N 74.3880W		1010	030/21	Mid W	
post splash data ended at 289.00										
17		2017		203520171	17.3784N 75.3427w		1009.7	010/17 10m	End W	

07/03/2021, 13:34:17-22:42:23



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	17.37	4.18	12.49	27.99
— LonGPS.1 (deg), 1 s/sec	-73.44	3.49	-82.03	-69.90