



AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Lundry / Parrish  
Phone #: 863500-3898

ACAT-4 Version = 7.3

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20190915H1	FLT #:		AC:	Kahn	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	2100Z	CP(s):	Rossi	Aberson	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	0400Z		Legidakes	Alvey			<b>13</b>	<b>0</b>	<b>13</b>
Block Time		Flight Time		Nav(s):	Richards	Bucci	ASOS Takeoff		BTs		
In:	<b>1:29</b>	Land:	<b>1:23</b>	FE(s):	Heystek	Chang			Good	Bad	Sent
Out:	<b>20:36</b>	T/O:	<b>20:44</b>	FD(s):	Sanchez		A/C Land		<b>0</b>	<b>0</b>	<b>0</b>
Total:	<b>4.9</b>	Total:	<b>4.7</b>	FD(s):	Parrish				ASOS Land		
Sponsoring Org:		EMC		SEB:	Lundry	Visitors:	Storm Number ID:		AL092019		
Program:		PRX		SEB:	Naeher		(ie: AL142018)				
Purpose:		TDR Mission TD Nine		SSA:	McAllister	TCPOD/WSPOD Mission		NOAA2 0909A HUMBERTO			
				SSA:	Warnecke	(ie: NOAA2 0614A MICHAEL)					
				AVAPS:		OBSERVATIONS					
AS REQUIRED BY ORM			Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP		
VOLCANIC ASH				X	<b>1 Hurricane Penny</b>						
SCIENCE MISSION WITHIN BDRY LAYER				X							
LACK OF PRECIPITATION				X							
RELATIVE HUMIDITY ≥ 80%			X								
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							

\*Highlighted items must be completed before departure.

Remarks:

## P-3 QC Checklist

<b>Flight ID:</b>	<b>20190915H1</b>
<b>Flight Director(s)</b>	<b>Lundry / Parrish</b>
<b>UWZ.d mean:</b>	<b>0.13</b>

Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	<b>1007.8</b>	<b>1008.5</b>
<b>Tower</b>	<b>1009.0</b>	<b>1009.6</b>

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

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"/> X

### NOTES:

**PDALPHA.2 and PDBETA.2 inop for entire flight**  
**TDM.1 unrepresentative between 22:51 and 22:54**  
**TDM.3 inop for entire flight**  
**PQM.1 unrepresentative between 00:57 and 01:16**  
**PQM.4 unrepresentative between 22:17 and 22:20**  
**These were not used operationally or in post processing**  
**QC performed by Quinn Kalen**

# AVAPS Drop Log

Project: 2019 Season

Mission: Hurricane Humberto

Flight ID: 20190915H1

Take Off: 2100Z

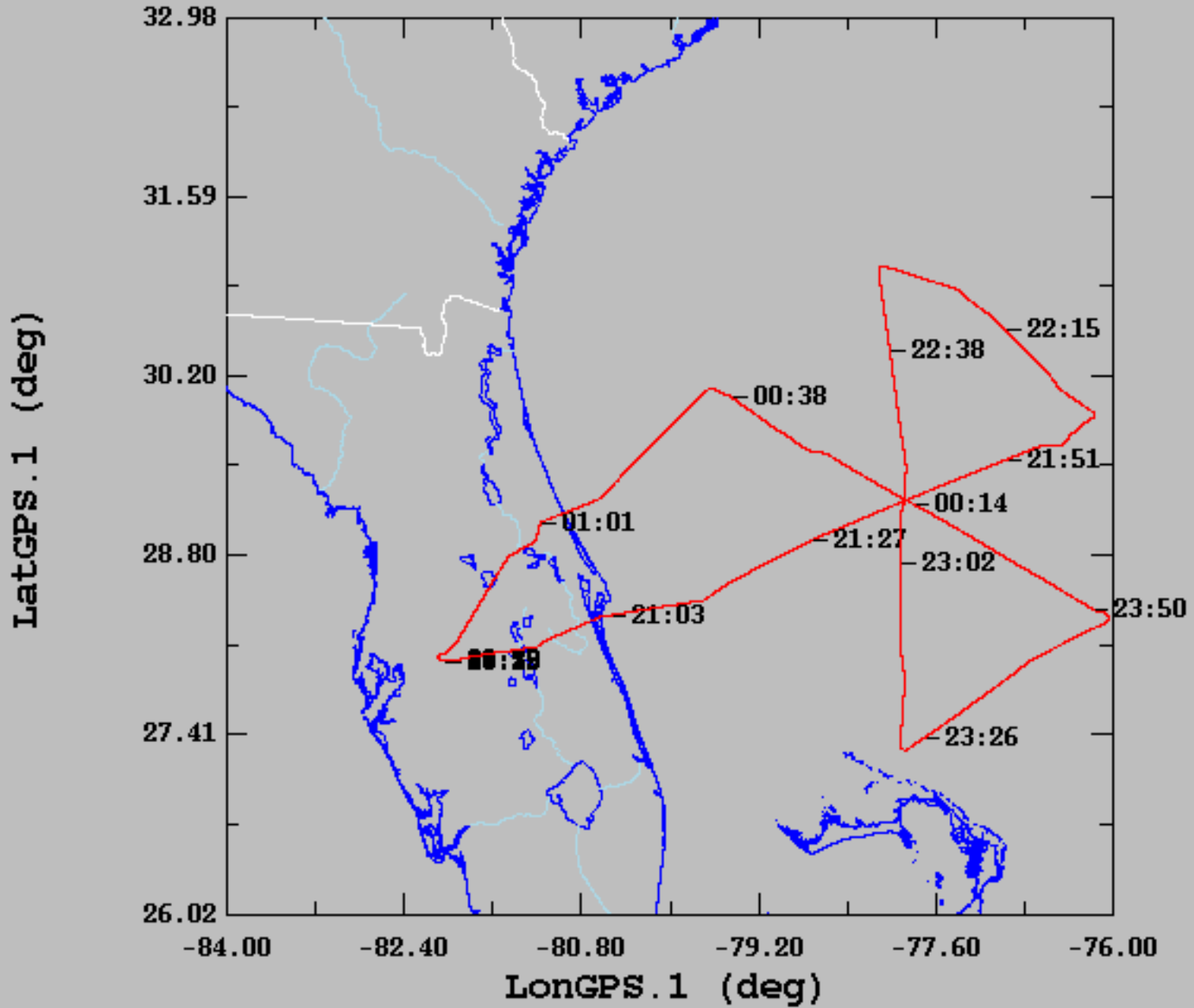
Landing: \_\_\_\_\_

Flt Dir: Jack/Ash

Launcher S/N: \_\_\_\_\_

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	191640235	1	-0.7	2112	Mac	NWS	PT1	✓
2	192050074	2	-0.7	2125		NWS	MP1	✓
3	191730298	3	-0.7	2150		NWS	MP2	✓
4	192050131	4	-0.7	2204		NWS	PT2	✓
5	191820258	1	-0.7	2228		NWS	PT3	✓
6	185050620	2	-0.7	2243		NWS	MP3	✓
7	191640241	3	+0.7	2257		NWS	2nd Center	✓
8	192221186	4	-0.7	2310		NWS	MP4	✓
9	191810576	5	-0.7	2322		NWS	PT4	✓
10	192091052	1	-0.7	2346		NWS	PT5	✓
11	191740204	2	-0.5	0001		NWS	MP5	✓
12	191640231	3	-0.7	0027		NWS	MP6	✓
13	191640239	4	-0.7	0039		NWS	PT6	✓
14								
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23								
24								
25								
26								
27								
28								
29								
30								
31					Mac			

2019-09-15, 19:52:00-25:25:41



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	28.89	0.92	27.29	31.05
— LongGPS.1 (deg), 1 s/sec	-79.10	2.00	-82.08	-76.03