



**U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N43RF Manifest**

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2021090611	FLT #:	1	AC:	Didier	Scientists:	Pressure		Dropsondes		
From:	TISX	ETD:	1500Z	CP(s):	Copare	Chang, Paul	A/C Takeoff		Good	Bad	Sent
To:	TISX	ETA:	2300Z		Stateler	Jelenak, Zorana			ASOS Takeoff		20
Block Time		Flight Time		NAV:	Hough	Sapp, Joe	ASOS Land				BTs
In:	2334	Land:	2331	FE(s):	Darby	Holbach, Heather			A/C Land		Good
Out:	1441	T/O:	1448	FD(s):	Bennet	Hazelton, Andy	ASOS Land				7
Total:	208.9	Total:	208.7	SSA:	Mascaro	Visitors:			Storm Number ID:		AL122021
Sponsoring Org:	HRD			AVAPS:	Warnecke	Richards B (NAV)	(ie: AL072012)				
Program:	PHX			SEB:		Urato (PM)	TCPOD/WSPOD Mission		NOAA3 WB12A LARRY		
Purpose:	Research			MX:			(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X		1			956	
SCIENCE MISSION WITHIN BDRY LAYER					X		2			956	
LACK OF PRECIPITATION					X	3X Hour Penalties	3			958	
RELATIVE HUMIDITY ≥ 80%				X			CAT III	4			
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		Pennies:				

\*Highlighted items must be completed before departure.

Remarks: *Sonde Accounting: NEWS: 15 sondes, 1 bad  
 HRD: 5 " 0 "  
 ORR: 1 " 0 "  
 Total 21 sondes, 1 bad*

## P-3 QC Checklist

<b>Flight ID:</b>	<b>20210906I1</b>
<b>Flight Director(s)</b>	<b>Holmes</b>
<b>UWZ.d mean:</b>	<b>-0.08</b>

Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	<b>1013.9</b>	<b>1011.9</b>
<b>Tower</b>	<b>1013.4</b>	<b>1011.0</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 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 checked="" type="checkbox"/> PDALPHA.2 <input checked="" type="checkbox"/> PDBETA.1 <input checked="" 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 checked="" type="checkbox"/> PitchI.3	<input checked="" type="checkbox"/> PitchRateI.1 <input checked="" type="checkbox"/> PitchRateI.2 <input checked="" type="checkbox"/> PitchRateI.3	<input checked="" type="checkbox"/> RolLI.1 <input checked="" type="checkbox"/> RolLI.2 <input checked="" type="checkbox"/> RolLI.3	<input checked="" type="checkbox"/> RollRateI.1 <input checked="" type="checkbox"/> RollRateI.2 <input checked="" 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 type="checkbox"/> TDM.3	<input checked="" type="checkbox"/> TRadD.1 <input checked="" type="checkbox"/> TRadS.1 <input checked="" 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:

**PQM.1 Trending ~10 mb high**  
**TRadU.1 not used/inop**

AVAPS Drop Log

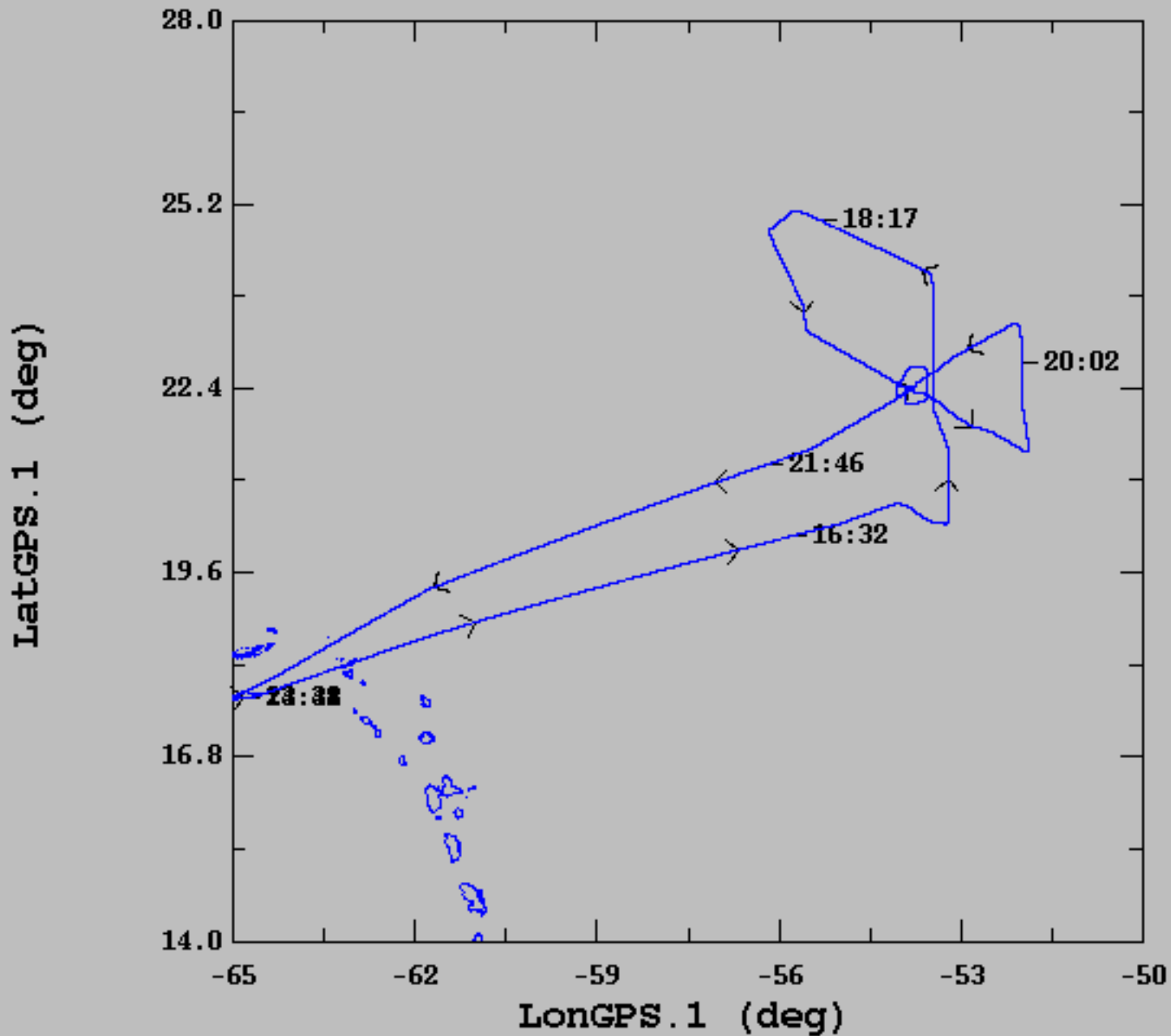
Project: Hurr 21 Mission: Larry Flight ID: 20210906I7  
 Take Off: 1447 Z Landing: \_\_\_\_\_ Flt Dir: Holmes Launcher S/N: 696

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	212350113	1	Ø	1703	JW	NWS	ENDPOINT 1	✓
2	204521421	2	Ø	1718		NWS	Midpoint #1	✓
3	204520770	3	Ø	1726		HRD	CTR #1	✓
4	204520759	4	Ø	1744		NWS	Midpoint #2	✓
5	211921024	5	Ø	1754		NWS	ENDPOINT #2	✓
6	212250268	6	Ø	1852		NWS	ENDPOINT #5	✓
7	211921032	7	Ø	1905		NWS	Midpoint #3	✓
8	211921052	8	Ø	1912		NWS	RUNW	✓
9	203850398	1	Ø	1918		HRD	CTR	✓
10	211910514	2	Ø	1933		NWS	Midpoint	✓
11	212250276	3	Ø	1945		NWS	ENDPOINT	✓
12	212250286	4	Ø	1959		ONR	Mid Point	✓
13	211821404	5	Ø	2011		NWS	NO LID EP	✗
14	212350114	6	Ø	2015		NWS	ENDPOINT	✗
15	212250221	7	Ø	2023		NWS	Midpoint	✗
16	212350121	8	Ø	2028		NWS	EXTREME	✓
17	211921030	1	Ø	2036		HRD	CTR	✓
18	212250274	2	Ø	2106		HRD	CTR	✓
19	203940850	3	Ø	2115		HRD	RUNW	✓
20	211921022	4	Ø	2122		NWS	Midpoint	✓
21	212250267	5	Ø	2136	JW	NWS	ENDPOINT	✓
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								

ENDPOINTS EMC

Mid Points  
6-7 Mid ONR CTR HRD

2021-09-06, 14:48:12-23:31:34



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	21.18	1.98	17.67	25.11
— LonGPS.1 (deg), 1 s/sec	-56.67	3.86	-65.00	-51.87
— LatGPS.1 (deg), 1 s/sec	21.18	1.98	17.67	25.11
— LonGPS.1 (deg), 1 s/sec	-56.67	3.86	-65.00	-51.87