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Flight Director: Carpenter
Phone #: 863-500-3901

ACAT-4 Version = 7.4

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2022103111	FLT #:	23-	AC:	Doremus	Scientists:	Pressure		Dropsondes		
From:	TISX	ETD:	0830Z	CP(s):	Wood	J. Zawislak	A/C Takeoff	1010.4	Good	Bad	Sent
To:	TISX	ETA:	1630Z		Keith	J. Zhang	ASOS Takeoff	TISX 0853Z 1009.5 mb	15	0	15
Block Time		Flight Time		NAV:	Miller	P. Chang					
In:	15:18	Land:	15:15	FE(s):	Stokes	A. Wilson	ASOS Land	TISX 1453Z 1012.3 mb	Good	Bad	Sent
Out:	8:15	T/O:	8:24	FD(s):	Tyson				0	0	0
Total:	7.1	Total:	6.9	SSA:	Richards	Visitors:	Storm Number ID:				
Sponsoring Org:		NWS / EMC			AVAPS:	Warnecke	(ie: AL072012)				
Program:		PRX			SEB:		TCPOD/WSPOD Mission		NOAA3 0615A TDR		
Purpose:		TDR Mission #2 PTC15			MX:		(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X		1				
SCIENCE MISSION WITHIN BDRY LAYER					X						
LACK OF PRECIPITATION					X		2				
RELATIVE HUMIDITY ≥ 80%				X							
LARGE AIR-SEA TEMP GRADIENT					X		3				
HIGH SURFACE WINDS					X						
LONG FETCH / DURATION OF SFC WND					X		4				
SEA SALT ACCRETION FORECAST					X						
SEA SALT ACCRETION OBSERVED					X		Pennies:	3 (TS)			

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Overall Assessment	Major instrument issue(s) - significant mission impact.
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Flight ID:	2022103111
Flight Director(s):	Carpenter
Mission:	Tasked/Operational
UWZ.d mean:	0.04

Pressure Comparison		
	T/O	Land
Aircraft	10104	N/A
Tower	TISX 0853Z 1009.5 mb	TISX 1453Z 1012.3 mb

	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 X 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 X LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	✓ LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3 X LonGPS.4	✓ LonI-GPS.1 ✓ LonI-GPS.2	✓ LATref ✓ LONref	
✓ Pressure	✓ PDALPHA.1 X PDALPHA.2 ✓ PDBETA.1 X PDBETA.2	✓ PQALPHA.1 ✓ PQBETA.1	✓ 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	✓ lasADDU.1	✓ IAS.d ✓ TAS.d		
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 X PitchI.3	✓ PitchRateI.1 ✓ PitchRateI.2 X PitchRateI.3	✓ RollI.1 ✓ RollI.2 X RollI.3	✓ RollRateI.1 ✓ RollRateI.2 X RollRateI.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 X TTM.3	✓ TDM.1 X TDM.2 X TDM.3	✓ TRadD.1 ✓ TRadS.1 X 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
X Miscellaneous FD Notes

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

NOTES:
<p>GPS.4 unavailable.</p> <p>PDAlpha.2 and PDBeta.2 likely affected by icing ~1330-1400Z.</p> <p>15-20 mb differential between PSM.1 and PSM.2. PSM.2 appears more representative.</p> <p>PitchI.3 and RollI.3 unavailable.</p> <p>Significant electrical oscillation in TTM.2. TTM.3 inoperative.</p> <p>Electrical oscillations evident in TDM.1. TDM.2 frequent failures throughout flight. TDM.3 inoperative.</p> <p>TRadU.1 inoperative.</p>

AVAPS Drop Log

Project: Hurr 22

Mission: PTC 15

Flight ID: 20220311L

Take Off: _____

Landing: _____

Flt Dir: Coastal

Launcher S/N: 209

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	210430439	1	∅	1022	Jaw	NWS	IP #1	✓
2	210910481	2	∅	1034			MP	✓
3	210920911	3	-1	1049			CTR #1	✓
4	211450574	4	∅	1103			MP	✓
5	210430079	5	-6	1114			EP #1	✓
6	210240929	6	∅	1137			IP #2	✓
7	210710332	7	∅	1148			MP	✓
8	210731062	8	-4	1200			ETR #2	✓
9	211450576	1	-4	1212			MP	✓
10	213430316	2	∅	1222			EP #2	✓
11	210930263	3	-7	1237			IP #3	✓
12	210731114	4	-8	1248			MP	✓
13	210710334	5	∅	1303			CTR #3	✓
14	210820292	6	-6	1313			MP	✓
15	210650509	7	∅	1326			EP #3	✓
16								
17								
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Dropwindsonde Scientist Log

Storm:	AL15 / LISA	Flight ID:	20221031I1	Mission ID:	0615A	Takeoff:	0824Z	Landing:	1515Z
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Dropsonde Scientist(s):	J. Zhang	AVAPS Operator:	Wernecke
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Pre-flight

- ✓ Discuss the pattern with the Lead Project Scientist (LPS) and ensure that enough dropsondes are onboard.
- ✓ Complete the appropriate pre-flight set-up of your workstation and ASPEN (see [Dropsonde Processing Guide](#)).

In-flight

- ✓ Ensure the Flight Director is aware of upcoming drops and whether a backup is requested in case of failure.
- ✓ Ensure the AVAPS operator has determined that the dropsonde is (or is not) transmitting a good signal.
- ✓ Prioritize processing of center drops and report MSLP and surface wind speed and direction to the Flight Director.
- ✓ Fill in the Dropwindsonde Scientist log as drops are released and processed.
- ✓ Copy completed ASPEN files (e.g., FRD, netCDF, Skew-t, WMO txt, BUFR) into the “FRD” folder on the workstation desktop for automated transmission to the ground for archival.

Once “science is complete”...

- ✓ Make synoptic map plots in ASPEN and copy them to the “FRD” folder on the workstation desktop for automated transmission to the ground for archival.
- ✓ Ensure ASPEN files have been sent to the ground by locating and verifying all files in the “FLIGHTID” folder within the “FRD” folder on the workstation desktop.
- ✓ Archive ASPEN_DATA and RAW_DATA into a folder named with the FLIGHTID within the “Season Dropsonde Archive” folder on the workstation desktop, and upload the same directories into StormName/FLIGHTID/Dropsonde/ folder on Drive.
- ✓ Download this Dropwindsonde Scientist Log as “PDF” and upload completed PDF and Google Doc to the StormName/FLIGHTID/Dropsonde/ folder within the “Mission Reports” directory in the HFP Google Drive.

Storm: AL15 / LISA

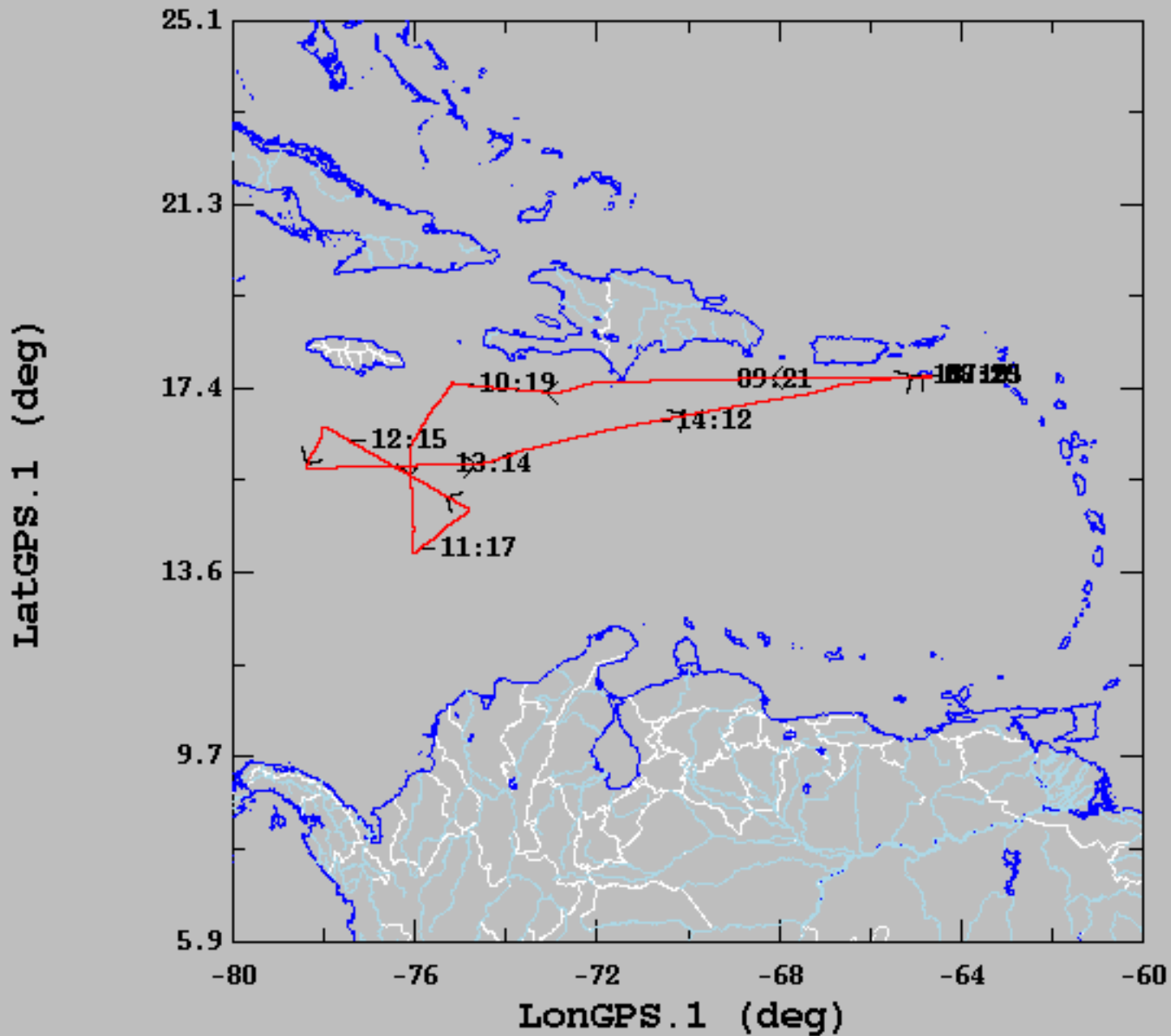
Flight ID: 20221031I1

Mission ID: 0615A

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Drop #	Sonde ID	Time UTC	Lat (°N/S)	Lon (°E/W)	Sfc Pressure (mb)	Lowest Wind Direction/Speed (deg/kt)	Lowest Wind Height (m)	AXBT SST (°C)	Eye, Eyewall, Rainband, etc.	Ob #
1	0439	102241	17.47	-75.20	1008.3	10017	10			01
Comments: IP of NE – SW Pass										
2	0481	103448	16.76	-75.74	1006.8	11020	10			02
Comments: NE Mid PT										
3	0911	104942	15.76	-76.09	1004.6	13025	10			03
Comments: Center										
4	0574	110304	14.84	-76.01	1006.3	18008	10			04
Comments: SW Mid PT										
5	0079	111433	14.05	-76.02	1005.3	01002	10			05
Comments: SW End PT										
6	0929	113720	14.92	-74.87	1008.1	14021	10			06
Comments: SE – NW Pass - SE End PT-IP										
7	0332	11486	15.32	-75.56	1007.6	14029	10			07
Comments: SE Mid PT										
8	1062	120039	15.75	-76.37	1005.5	13524	10			08
Comments: Center										
9	0576	121207	16.18	-77.16	1006.6	05522	10			09
Comments: NW Mid PT										
10	0316	122212	16.58	-77.87	1007.3	04524	10			10
Comments: NW End PT										

2022-10-31, 07:25:42-15:10:07



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	16.66	1.03	13.98	17.71
— LongGPS.1 (deg), 1 s/sec	-71.73	4.57	-78.35	-64.63