

PDALPHaref, PDBETaref, PQALPHaref, PQBETaref, and DPJ_WSZ are not provided since _AC file is not produced; all other 'C' file parameters checked are from the _A file
UWZ is noisier than expected with a spike ~2327 UTC on final descent; the UWZ mean is also higher than expected, exceeding 0.20

Expendable Type	# deployed	# good	# transmitted
Dropsondes	0	0	0
Test sondes	0	0	0
AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Zawislak / Parrish
Phone #: 305-707-4359

ACAT-4 Version = 7.4

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20230911H1	FLT #:	FY23-	AC:	Doremus	Scientists:	Pressure		Dropsondes		
From:	TISX	ETD:	1630L / 2030Z	CP(s):	Rannenberg	Hazelton (HRD)	A/C Takeoff	1008.7	Good	Bad	Sent
To:	KLAL	ETA:	2030L / 0030Z		Palmer	Sellwood (HRD)			0	0	0
Block Time		Flight Time		NAV:	Hough / Schaefer	Sapp (NESDIS)	ASOS Takeoff	1008.2	BTs		
Out:	19:52	T/O:	19:56	FE(s):	Stokes	Chang (NESDIS)			A/C Land	Good	Bad
In:	23:37	Land:	23:31	FD(s):	Parrish	Jelenak (NESDIS)	ASOS Land	1010.1	0	0	0
Total:	3.8	Total:	3.6	SSA:	McAlister	Visitors:					
Sponsoring Org:	AOC			SEB:	Santoni (IFT)	Storm Number ID:		N/A			
Program:	PMV						(ie: AL072012)				
Purpose:	Transit TISX - KLAL			MX:	Decker / Kregelka / Olney	TCPOD/WSPOD Mission		NOAA2 WXWXA TRAIN			
						(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:				

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - minimal mission impact.
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Flight ID:	20230911H1
Flight Director(s):	Zawislak / Parrish
Mission:	Ferry
UWZ.d mean:	0.23

Pressure Comparison		
	T/O	Land
Aircraft	1008.7	No good measurement
Tower	1008.2	1010.1

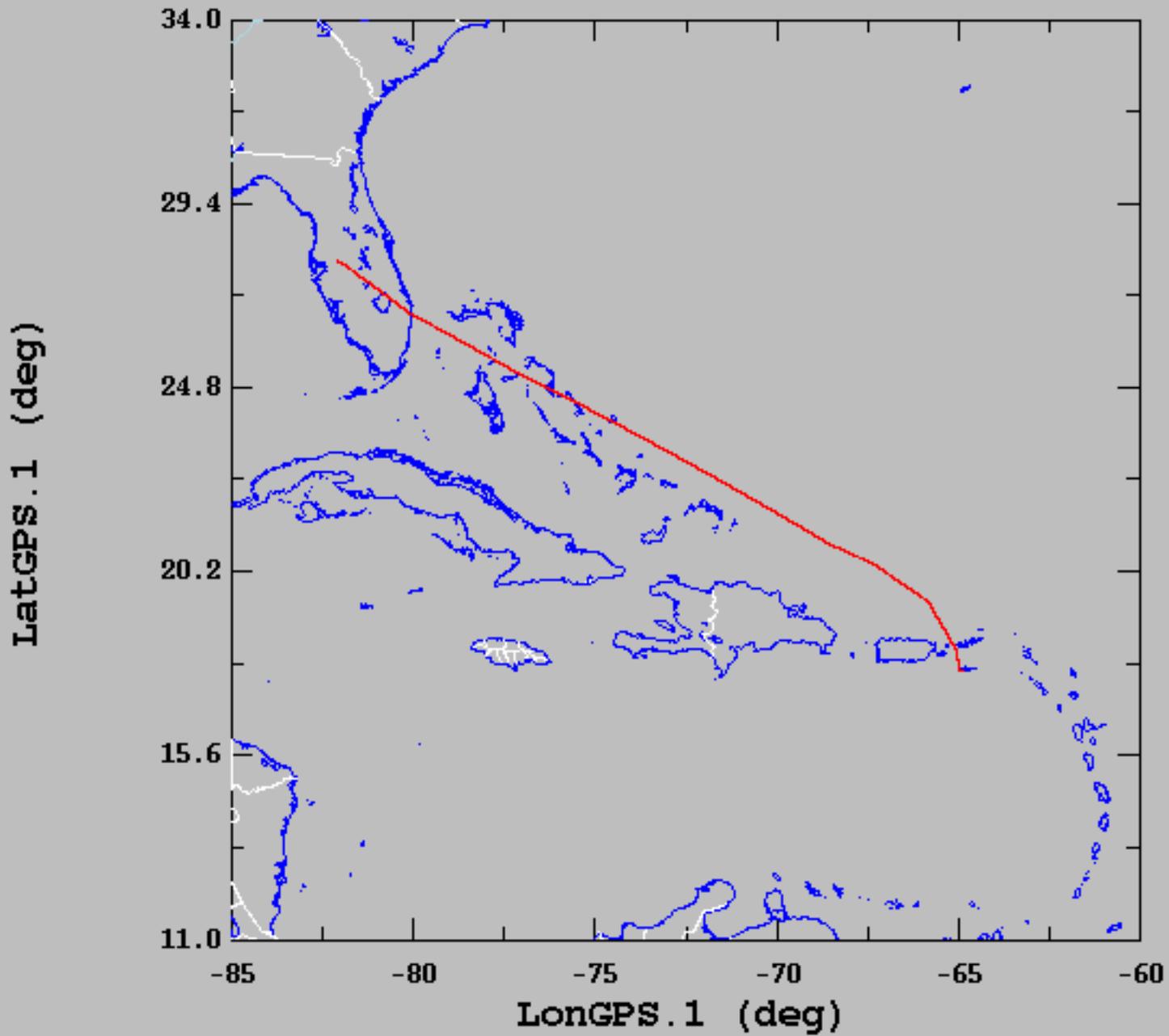
	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✓ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✓ AccAYI-GPS.2	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI-GPS.1 ✓ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✓ AccZfilter-GPS.2	✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✗ AltGPS.3 ✓ 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	✓ GSXref ✓ GSYref ✓ GSZref		
✓ 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	✓ 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	✓ IAS.d ✓ TAS.d		
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 ✗ PitchI.3	✓ PitchRateI.1 ✓ PitchRateI.2 ✗ PitchRateI.3	✓ RollI.1 ✓ RollI.2 ✗ RollI.3	✓ RollRateI.1 ✓ RollRateI.2 ✗ RollRateI.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 ✗ TTM.3	✗ TDM.1 ✓ TDM.2 ✗ TDM.3	✓ TRadD.1 ✓ TRadS.1 ✗ 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>GPS.3 has dropouts in descent to LAL at ~2323 UTC for a few seconds, and ~2324 and ~2327 UTC for about a minute; impacts ALTref since it is set to AltGPS.3, as well as LatGPS.3 and LonGPS.3</p> <p>I.3 for Pitch and Roll is not operational</p> <p>TTM.3 is not operational</p> <p>TRadU.1 is not operational</p> <p>TDM.1 deviates from TDM.2 for much of the flight, running lower than TDM.2 and thus TDM.1 should not be used; TDM.2 is the better behaving sensor and TDMref is set to TDM.2</p> <p>TDM.3 has erroneous data throughout the flight and should not be used; overall, TDM.1 and TDM.2 after 2318 UTC appears unrealistic and should not be used (same for TDMref, TD.c, HUM)</p> <p>TA.d, TD.c, TAS.d, and thus WS.d and WD.d, drops out at ~23:22:46 for 3 minutes while on final descent</p> <p>PDALPHAref, PDBETAref, PQALPHAref, PQBETAref, and DPJ_WSZ are not provided since _AC file is not produced; all other 'C' file parameters checked are from the _A file</p> <p>UWZ is noisier than expected with a spike at ~2327 UTC on final descent; the UWZ mean is also higher than expected, exceeding 0.20</p>

09/11/2023, 19:25:06-23:31:15



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	22.41	3.26	17.70	27.99
— LonGPS.1 (deg), 1 s/sec	-71.95	5.77	-82.07	-64.79