

## P-3 QC Checklist

Overall Assessment	Major instrument issue(s) - significant mission impact.
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Flight ID:	20221110I1
Flight Director(s):	Holmes / Kalen, QC- Hathaway
Mission:	Ferry
UWZ.d mean:	0.09

Pressure Comparison		
	T/O	Land
Aircraft	1006.7 mb	N/A
Tower	KBFM - 1020.4 mb	KLAL - 1006.8 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 ✓ AccXref	
✓ 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		✓ GSXref ✓ GSYref ✓ GSZref	
✓ 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 ✓ PDALPHA.2 ✓ PDBETA.1 ✓ PDBETA.2	✓ PQALPHA.1 ✓ PQBETA.1	✓ PQM.1 ✓ PQM.2 ✓ PQM.3 ✓ PQM.4	✓ PSM.1 ✓ PSM.2 ✓ PTM.1	✓ PDALPHAref ✓ 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 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
X 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"/>

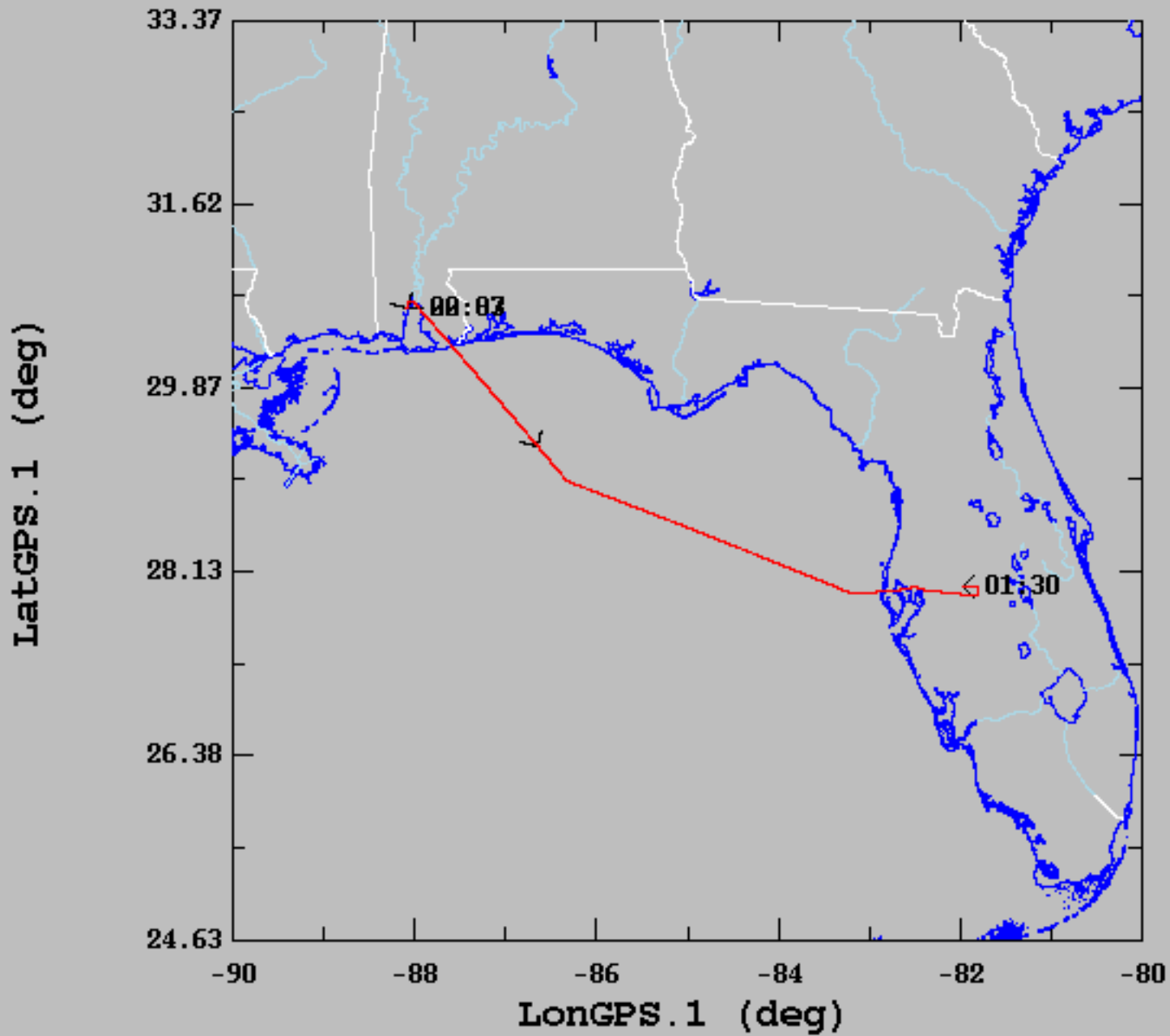
NOTES:
<p>PitchI.3, and RollI.3 are all unavailable.</p> <p>LatGPS.4, LonGPS.4, AltGPS.4, TRadU.1, TDM.3, and TTM.3 are all inoperative.</p> <p>20-30 mb differential between PDALPHA.1 and PDALPHA.2.</p> <p>PQM.1 higher by roughly 5-10 mb than rest of PQMs.</p> <p>TTM.2 experiencing electrical oscillations, and appears more noisy than TTM.1.</p> <p>TDM.1 appears nosier in the air than when on the ground.</p> <p>Some gaps in humidity when super saturation occurs.</p>



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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	202211011	FLT #:		AC:	Mitchell	Scientists:	Pressure		Dropsondes		
From:	KBFM	ETD:	2300Z	CP(s):	Rannenberg	Joe Sapp	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	0030Z		Wood				<b>0</b>	<b>0</b>	<b>0</b>
Block Time		Flight Time		NAV:	Miller	ASOS Takeoff		BTs			
In:	<b>1:42</b>	Land:	<b>1:31</b>	FE(s):	Stokes			Good	Bad	Sent	
Out:	<b>23:59</b>	T/O:	<b>0:08</b>	FD(s):	Tyson	A/C Land		<b>0</b>	<b>0</b>	<b>0</b>	
Total:	<b>1.7</b>	Total:	<b>1.4</b>	SSA:	McAlister						ASOS Land
Sponsoring Org:	EMC / NWS			AVAPS:	S. Paul	Storm Number ID:					
Program:	PRX			SEB:	Timmers	(ie: AL072012)					
Purpose:	Transit				MX:		TCPOD/WSPOD Mission				
						(ie: NOAA2 2418A SANDY)					
						<b>OBSERVATIONS</b>					
AS REQUIRED BY ORM			Y	N	REMARKS		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:	Transit back to Lakeland following passage of Hurricane Nicole.										

11/10/2022, 22:37:25-25:30:00



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	29.77	1.10	27.90	30.70
— LongGPS.1 (deg), 1 s/sec	-86.57	2.12	-88.08	-81.80