



Flight Director: Zawislak / QC - Hathaway  
Phone #: 305-707-4359 / 863-296-8241

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:	20230929H1	FLT #:	FY23-	AC:	Gaston	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0900L / 1300Z	CP(s):	Keith	Paul Chang (NESDIS)	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1200L / 1600Z			Joe Sapp (NESDIS)			2	0	0
Block Time		Flight Time		NAV:	Schaefer		ASOS Takeoff		BTs		
Out:	12:50	T/O:	13:07	FE(s):	Wysinger		A/C Land		Good	Bad	Sent
In:	16:21	Land:	16:15	FD(s):	Zawislak		ASOS Land		0	0	0
Total:	3.5	Total:	3.1	SSA:	McAlister	Visitors:	Storm Number ID:		N/A		
Sponsoring Org:	NESDIS			AVAPS:	Dykeman	(ie: AL072012)					
Program:	PND			SEB:		TCPOD/WSPOD Mission		NOAA2 WXWXA TRAIN			
Purpose:	Calibration			MX:		(ie: NOAA2 2418A SANDY)					
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					x	2 minisondes released	1				
SCIENCE MISSION WITHIN BDRY LAYER					x	Sonde #1: 1541 UTC (stratiform rain)					
LACK OF PRECIPITATION					x	Sonde #2: 1546 UTC (stratiform rain)	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.
--------------------	---

Flight ID:	20230929H1
Flight Director(s):	Zawislak / Hathaway
Mission:	Tasked/Operational
UWZ.d mean:	-0.01

Pressure Comparison		
	T/O	Land
Aircraft	1009.15 mb	N/A
Tower	1009.2 mb	1010.6 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 ✓ 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	X PQM.1 ✓ PQM.2 ✓ PQM.3 X PQM.4	✓ PSM.1 ✓ PSM.2 ✓ PTM.1	X PDALPHAref X PDBETAref X PQALPHAref X 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	✓ PitchRatel.1 ✓ PitchRatel.2 X PitchRatel.3	✓ RollI.1 ✓ RollI.2 X RollI.3	✓ RollRatel.1 ✓ RollRatel.2 X RollRatel.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 X TTM.3	✓ TDM.1 ✓ TDM.2 X TDM.3	✓ TRadD.1 ✓ TRadS.1 X TRadU.1		✓ TD.c ✓ TDMref	✓ TTMref ✓ TA.d
✓ Misc. (Must check)					✓ UWZ.d X DPJ_WSZ ✓ HUM	✓ WS.d ✓ WD.d

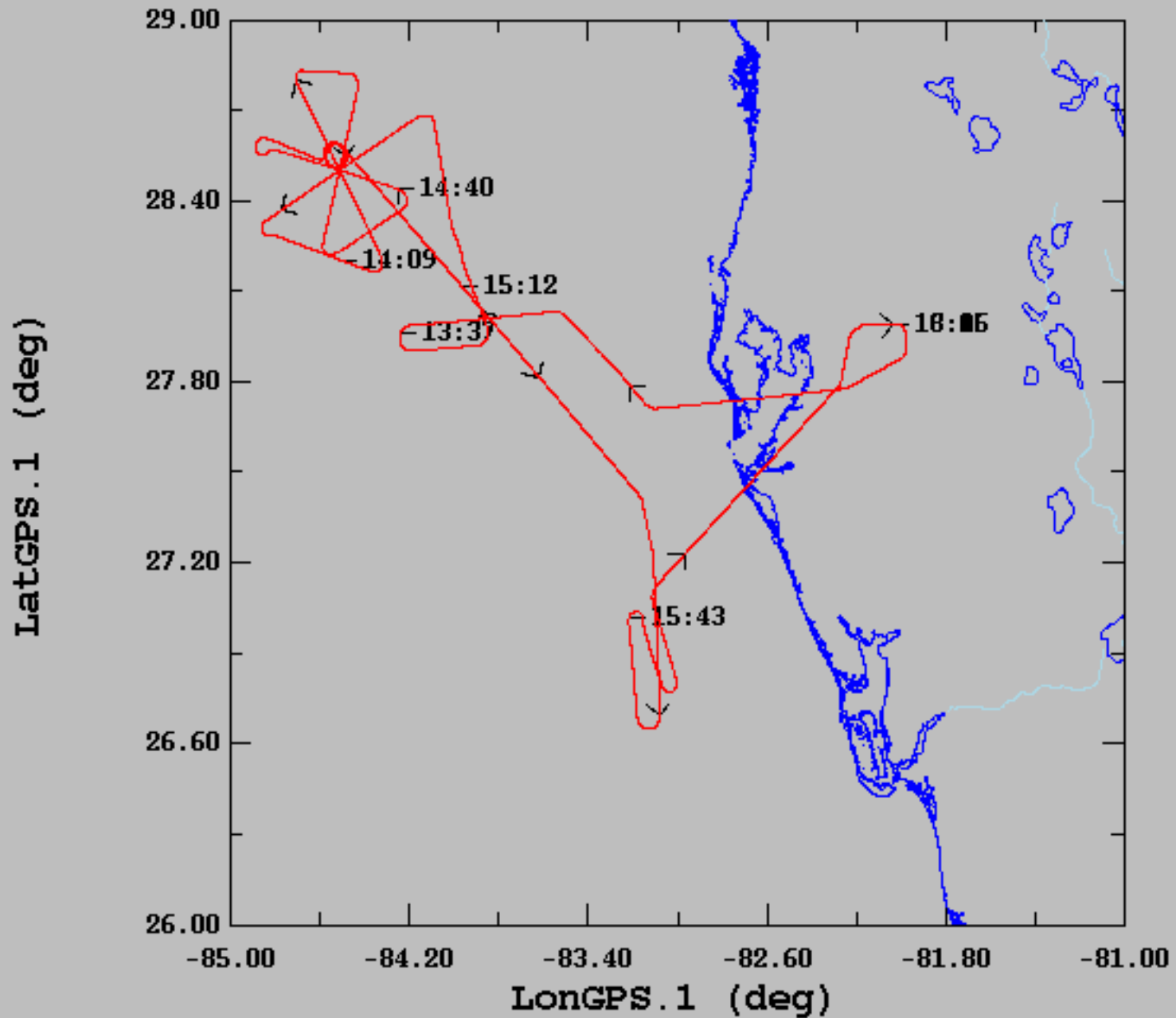
FLID_Mission_Documents.pdf.	
✓	Error Summary
✓	Crew Manifest
✓	QC Checklist
X	Dropwindsonde Log(s) - AVAPS and FD if completed
✓	Flight Track
✓	Miscellaneous FD Notes

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

### NOTES:

- 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
- PQM.1 and PQM.4 have an offset ranging from +/- 2-6 mb during majority of the flight.
- SFMR WS and RR values occasionally drop out throughout flight. Appears to be the only instrument or sensor having these drop outs.

2023-09-29, 13:06:21-16:15:10



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	27.98	0.56	26.65	28.83
— LongGPS.1 (deg), 1 s/sec	-83.70	0.83	-84.88	-81.97