

N43RF ERROR SUMMARY
20230810I1

Flight ID: 20230810I1

Sensor or System -----	Number or Name -----
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.1
Dewpoint Temp. Probe	TDM.1
Vertical Accelerometer	AccZfilterI-GPS.1
Altimeter	AltGPS.3
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.1
Differential Sideslip Pressure Probe	PDBETA.1
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure Probe	PQBETA.1

Flight Directory acdata/2023/MET/20230810I1

Local Met Data	Takeoff TBPB (1523Z)	Landing KLAL (0000Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.050058
AttackAngleSlope		5.32015
SlipAngleIntercept		0.165
SlipAngleSlope		6.66754

Notes:

There were no edits made in the measured parameters used to calculate meteorological and navigational parameters.

Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

I.3 for Pitch and Roll is not operational.
TRadU.1 has erroneous data throughout the flight and should not be used.
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.
TTM.3 and TDM.3 inop
TDM.1 noted as reference, TDM.2 is the actual reference and is more representative.
Gap in all parameters between 16:00 - 16:03
Several parameters unrepresentative from take off until 16:11z: ALTPA.d, TAS.d, IAS.d, TA.d, PS.c, PSMref, PQ.c and PQMref.
PSM.2 inop for duration of flight
PSMref switched to PSM.1 at 16:11
PQM.1, PQMref, and PQ.c trending ~15mb high
PQM.2 & .3 inop

Expendable Type	# deployed	# good	# transmitted
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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: KALEN / LUNDRY
Phone #: 863-500-3962

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:	20230810I1	FLT #:		AC:	Doremus	Scientists:	Pressure		Dropsondes		
From:	TBPB	ETD:	1430Z	CP(s):	Keith	Alaka	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	2000Z		Palmer	Aberson			0	0	0
Block Time		Flight Time		NAV:	Miller / Schaefer		ASOS Takeoff		BTs		
In:	20:53	Land:	20:24	FE(s):	Tyson		A/C Land		Good	Bad	Sent
					Wysinger						
Out:	15:16	T/O:	15:24	FD(s):	Kalen		ASOS Land		0	0	0
					Lundry						
Total:	5.6	Total:	5.0	SSA:	Richards	Visitors:					
				AVAPS:	Waggoner / Lambert		Storm Number ID:		N/A		
Sponsoring Org:	HRD			SEB:			(ie: AL072012)				
Program:	PHX				Olney (MX)		TCPOD/WSPOD Mission		WXWXA TRAIN		
Purpose:	Repo to KLAL				Kregelka (MX)		(ie: NOAA2 2418A SANDY)				
				MX:	Crane		OBSERVATIONS				
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	Major instrument issue(s) - significant mission impact.
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Flight ID:	20230810I1
Flight Director(s):	Kalen / Lundry
Mission:	Ferry
UWZ.d mean:	0.16

Pressure Comparison		
	T/O	Land
Aircraft	1011.0	-
Tower	1009.7	-

	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	✓ PitchRatI.1 ✓ PitchRatI.2 ✗ PitchRatI.3	✓ RollI.1 ✓ RollI.2 ✗ RollI.3	✓ RollRatI.1 ✓ RollRatI.2 ✗ RollRatI.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

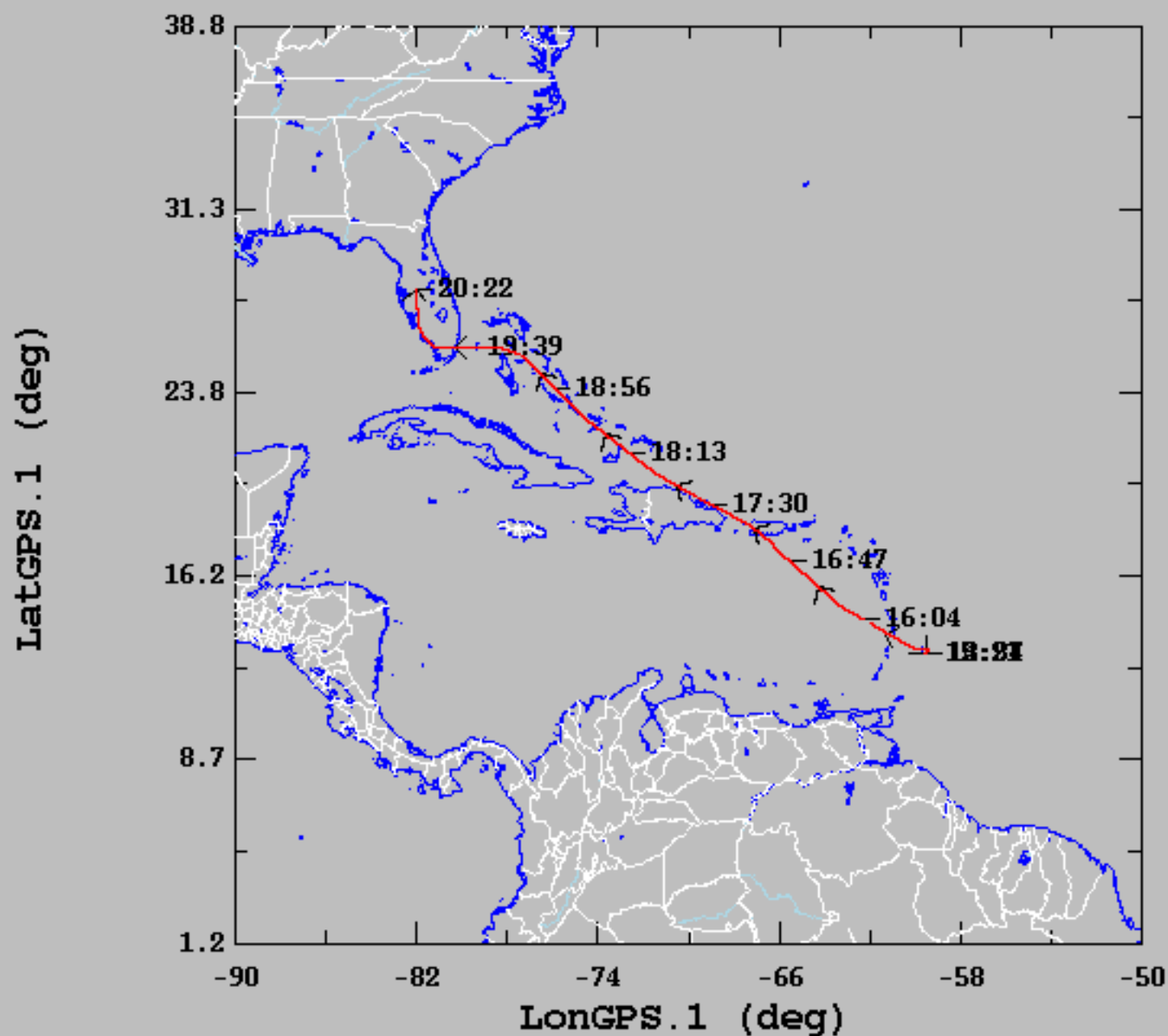
FLID_Mission_Documents.pdf.	
✓	Error Summary
✓	Crew Manifest
✓	QC Checklist
☐	Dropwindsonde Log(s) - AVAPS and FD if completed
✓	Flight Track
✓	Miscellaneous FD Notes

QC Key	
Not checked	☐
Valid	✓
Errors (note)	✗

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08/10/2023, 13:54:50-20:22:53



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	18.71	4.95	13.07	27.99
LongGPS.1 (deg), 1 s/sec	-68.41	7.77	-82.00	-59.40