

N43RF ERROR SUMMARY
20230916I1

Flight ID: 20230916I1

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/20230916I1

Local Met Data	Takeoff KILM (0828Z)	Landing KLAL (0024Z)
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. Data system restart before take off.

PDALPHAref, PDBETAref, PQALPHAref, PQBETAref, and DPJ_WSZ are not provided since _BC file is not produced; all other "C" file parameters checked are from the _B file.

TTM.3 and TDM.3 inop

PQM.1 trending ~5 mb high

TDM.1 has an isolated spike at 12:24

Humidity parameters suspect

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	5	5	5
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:	20230916I1	FLT #:		AC:	COPARE	Scientists:		Pressure		Dropsondes		
From:	KILM	ETD:	0830Z	CP(s):	KEITH	J. ZHANG		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1800Z		WOOD	5	0			5		
Block Time		Flight Time		NAV:	UTAMA	ASOS Takeoff		BTs				
In:	17:17	Land:	17:11	FE(s):	TYSON			Good	Bad	Sent		
Out:	8:23	T/O:	8:29	FD(s):	KALEN	ASOS Land		0	0	0		
				LUNDRY								
Total:	8.9	Total:	8.7	SSA:	RICHARDS	Visitors:		Storm Number ID:				
				AVAPS:	KOTZ/WARNECKE	(ie: AL072012)			AL132023			
Sponsoring Org:	NHC			SEB:	UNDERWOOD	TCPOD/WSPOD Mission		4013A LEE				
Program:	PRX				CARRION (MX)	(ie: NOAA2 2418A SANDY)						
Purpose:	HX LEE FIX				MX:	OHSIEK	OBSERVATIONS					
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP		
VOLCANIC ASH				X			1	5	1225z	967mb		
SCIENCE MISSION WITHIN BDRY LAYER				X			2					
LACK OF PRECIPITATION				X			3					
RELATIVE HUMIDITY ≥ 80%			X				4					
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			Pennies:	2 - CAT 1				

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - no mission impact.
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Flight ID:	2023091611
Flight Director(s):	KALEN / LUNDRY
Mission:	Tasked/Operational
UWZ.d mean:	-0.21

Pressure Comparison		
	T/O	Land
Aircraft	1017.0	-
Tower	1017.0	-

	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	x PDLAPHaref 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	✓ 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 ✓ 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 x 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)	X

NOTES:
<p>I.3 for Pitch and Roll is not operational. TRadU.1 has erroneous data throughout the flight and should not be used. Data system restart before take off. PDALPHaref, PDBETAref, PQALPHaref, PQBETAref, and DPJ_WSZ are not provided since _BC file is not produced; all other "C" file parameters checked are from the _B file. TTM.3 and TDM.3 inop PQM.1 trending ~5 mb high TDM.1 has an isolated spike at 12:24 Humidity parameters suspect</p>

AVAPS Drop Log

Project: HURRICANE

Mission: LEE

Flight ID: 20230916 I1

Take Off: _____

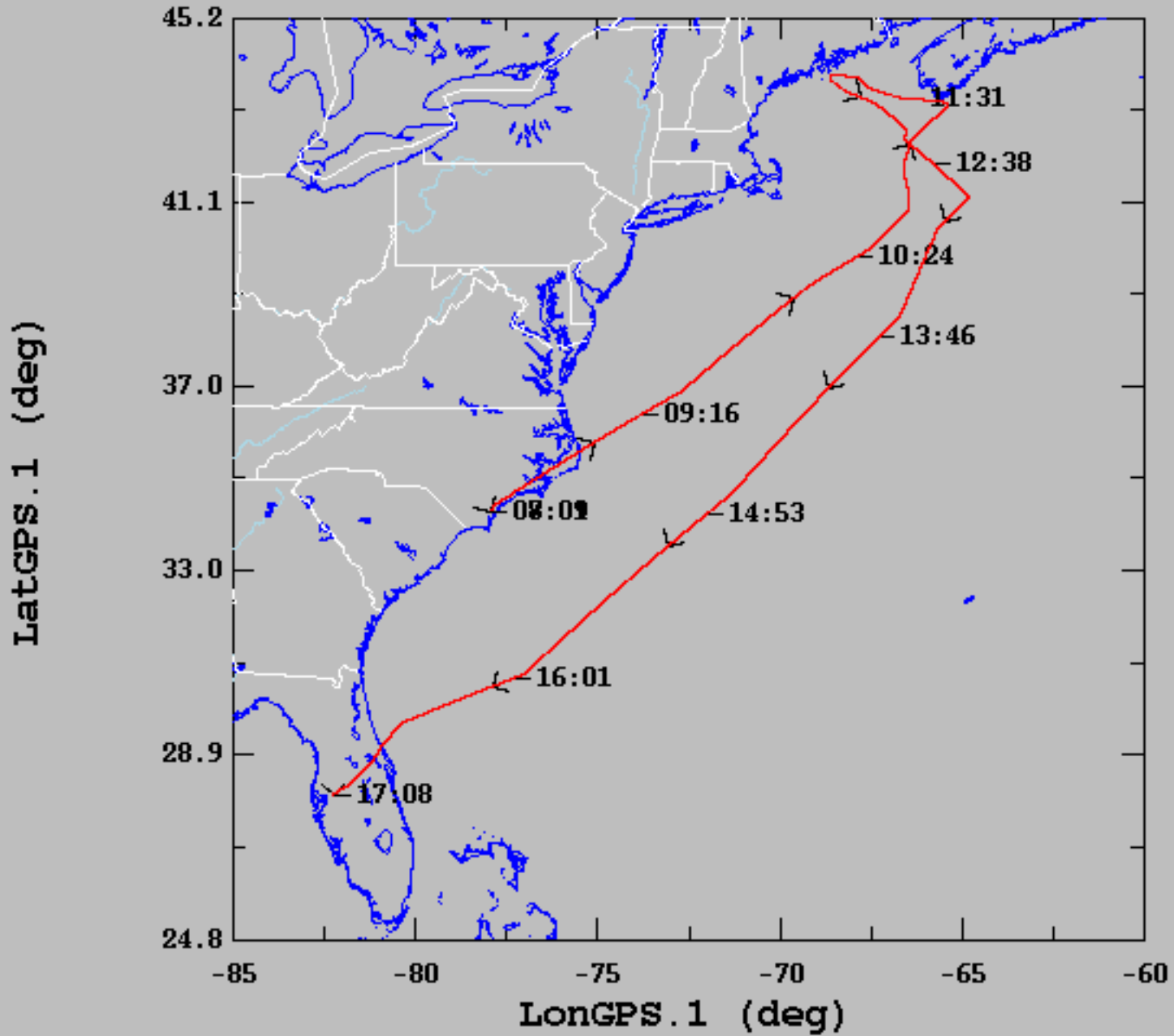
Landing: _____

Flt Dir: KQ

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	221810490	1	-1.1	1027	HK	NWS	IP 1	✓
2	221810489	2	-0.8	1120	HK	NWS	EP 1	✓
3	221810478	3	-0.8	1156	HK	NWS	IP 2	✓
4	221810470	4	-0.8	1226	HK	NWS	WTR	✓
5	222021238	5	-1.1	1252	HK	NWS	EP 2	✓
6	221810479	6	-0.7				KTB	
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09/16/2023, 07:01:52-17:08:27



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	36.75	4.40	27.94	43.97
— LongGPS.1 (deg), 1 s/sec	-72.09	5.16	-82.25	-64.78