

N43RF ERROR SUMMARY
20230910I1

Flight ID: 20230910I1

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/20230910I1

Local Met Data	Takeoff TISX (0835Z)	Landing TISX (1301Z)
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
 GPS.3 and .4 parameters unrepresentative
 PQM.1 trending ~10 mb high
 Humidity parameters suspect

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	39	37	37
Test sondes	0	0	0
AXBTs	4	3	2
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:	20230910I1	FLT #:		AC:	COPARE	Scientists:	Pressure		Dropsondes		
From:	TISX	ETD:	0830Z	CP(s):	KEITH		A/C Takeoff		Good	Bad	Sent
To:	TISX	ETA:	1630Z		WOOD				37	2	37
Block Time		Flight Time		NAV:	UTAMA		ASOS Takeoff		BTs		
In:	16:44	Land:	16:37	FE(s):	TYSON				A/C Land		Good
Out:	8:26	T/O:	8:36	FD(s):	TUFNELL	ASOS Land		3			1
Total:	8.3	Total:	8.0	SSA:	RICHARDS			Visitors:	Storm Number ID:		AL132023
Sponsoring Org:	EMC			AVAPS:	KOTZ/WARNECKE	KELLY RYAN	(ie: AL072012)				
Program:	PRX			SEB:		TIONE SCOTLAND	TCPOD/WSPOD Mission		1113A LEE		
Purpose:	HX LEE TDR						MAJ GEN KNOX-LIMBACKER	(ie: NOAA2 2418A SANDY)			
				MX:		MARK WALTERS	OBSERVATIONS				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X		1	4	0954Z	951MB EXTRAP	
SCIENCE MISSION WITHIN BDRY LAYER					X		2	22	1106Z	957 MB	
LACK OF PRECIPITATION					X		3	37	1219Z	958 MB	
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:	8 - CAT 2			

*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:	2023091011
Flight Director(s):	KALEN / LUNDRY
Mission:	Non-tasked Science Collection/Research
UWZ.d mean:	-0.12

Pressure Comparison		
	T/O	Land
Aircraft	1009.8	-
Tower	1008.9	-

	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 x 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 x LatGPS.3 x LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	✓ LonGPS.1 ✓ LonGPS.2 x 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	x PDLAPHaref x PDBETAref x PQALPHaref x PQBETAref	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1	✓ lasADDU.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)					x 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.</p> <p>TRadU.1 has erroneous data throughout the flight and should not be used.</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>TTM.3 and TDM.3 inop</p> <p>GPS.3 and .4 parameters unrepresentative</p> <p>PQM.1 trending ~10 mb high</p> <p>Humidity parameters suspect</p>

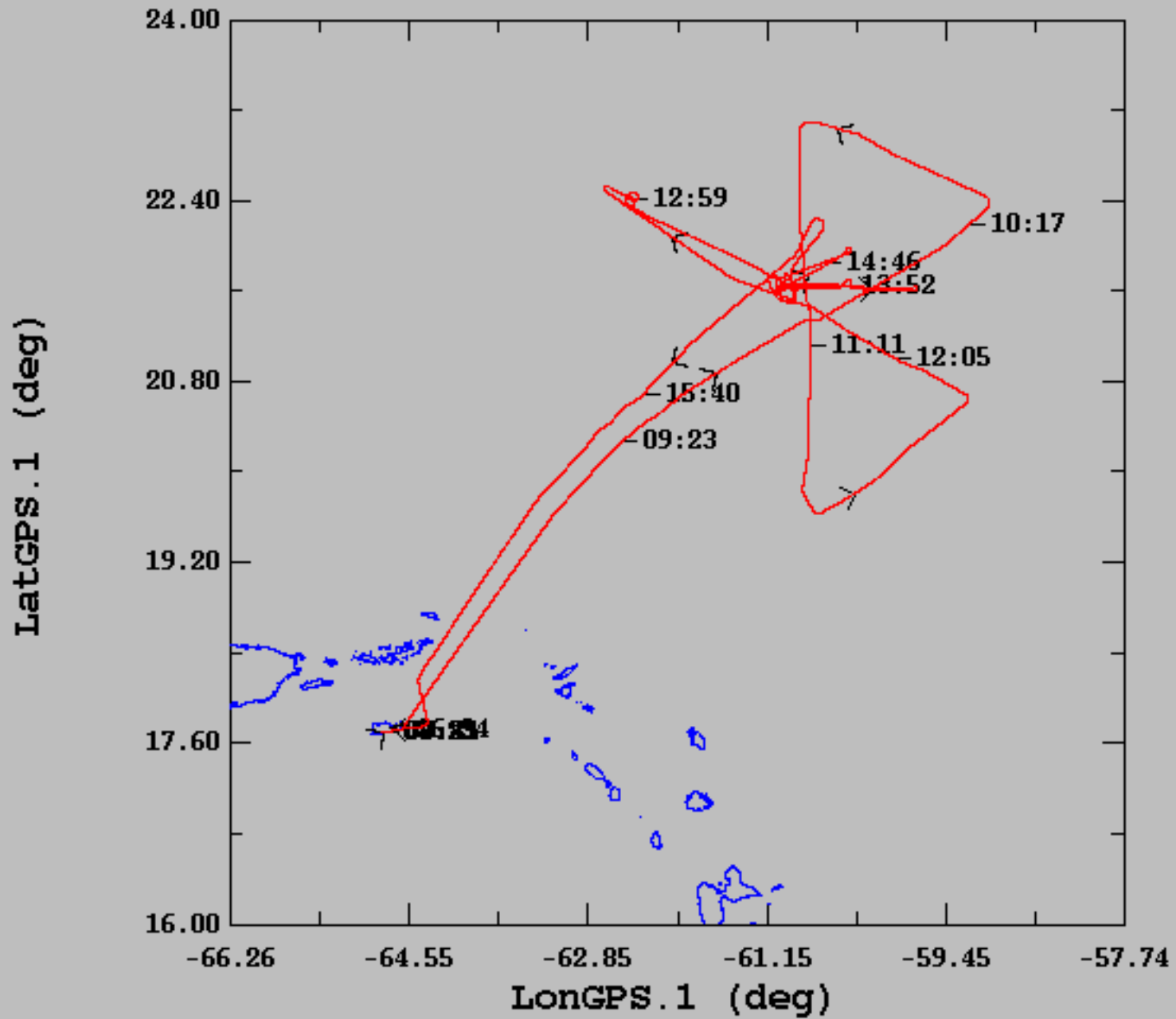
AVAPS Drop Log

Project: Hurricane Lee Mission: _____ Flight ID: 2023 091011
 Take Off: _____ Landing: _____ Flt Dir: KQ Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	221750528	1	-0.9	0930	HK	NWS	NWS TRAP 1	✓
2	221730342	2	-0.8	0942	HK	NWS	MP	✓
3	222120819	3	-1.0	0949	HK	NWS	RMW	✓
4	222020515	4	-1.3	0950	HK	NWS	RMW	✓
5	221631325	5	-0.3	0950	HK	NWS	RMW	✓
6	220750413	6	-0.7	0958	HK	NWS	CNTR	✓
7	220740091	7	-0.4	0958	HK	NWS	RMW	✓
8	222120872	8	-1.2	0958	HK	NWS	RMW	✓
9	221631331	1	-0.5	0959	HK	NWS	RMW	✓
10	221810054	2	-1.0	1007	HK	NWS	MP	✓
11	220910583	3	-0.9	1019	HK	NWS	EP 1	✓
12	222050022	4	0.0	1043	JW	NWS	IP 2	✓
13	220750660	5	-0.8	1051	JW	NWS	MP	✓
14	220910313	6	-0.7	1059	JW	NWS	RMW	✓
15	221730328	7	-1.3	1108	JW	NWS	RMW	✓
16	221640977	8	-0.9	1102	JW	NWS	RMW	✓
17	221730019	1	-1.2	1106	JW	NWS	CTR 2	✓
18	222120879	2	-1.6	1109	JW	NWS	RMW	✓
19	221730491	3	-1.7	1110	JW	NWS	RMW	✓
20	221730324	4	-1.7	1110	JW	NWS	RMW	✓
21	221640975	5	-1.7	1121	JW	NWS	MP	✓
22	221750518	4	-1.9	1132	JW	NWS	EP 2	✓
23	222120818	7	-1.4	1154	HK	NWS	IP 3	✓
24	222120821	8	-1.4	1206	HK	NWS	MP Combo	✓
25	221750663	1	-1.6	1214	HK	NWS	RMW	✓
26	221240728	2	-0.8	1215	HK	NWS	RMW	✓
27	221750835	3	-1.1	1216	HK	NWS	RMW	✓
28	221540686	4	-0.7	1219	HK	NWS	CNTR Combo	✓
29	221150271	5	-0.8	1222	HK	NWS	RMW	✓
30	221750530	6	-1.0	1222	HK	NWS	RMW	✓
31	222120822	7	-1.1	1222	HK	NWS	RMW No Launch	X

8 -1.0
-0.8

09/10/2023, 06:41:40-16:34:42



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	20.39	1.75	17.70	23.08
LonGPS.1 (deg), 1 s/sec	-62.08	1.83	-64.82	-59.02