

N43RF ERROR SUMMARY
20210828I1

Flight ID: 20210828I1

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/2021/MET/20210828I1

Local Met Data	Takeoff KLAL (0756Z)	Landing KLAL (1543Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.131251
AttackAngleSlope		6.02327
SlipAngleIntercept		0.23
SlipAngleSlope		7.02537

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.

GPS.4 unavailable. 10-20 mb difference between PSM.1 and PSM.2, most pronounced at higher altitudes. PSM.2 appears more stable. PitchI.3 and RollI.3 unavailable. TTM.3 inoperative. TDM.3 trends with TDM.1 and TDM.2 but is an outlier. TRadU.1 inoperative.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	32	30	30
Test sondes	0	0	0
AXBTS	19	17	17
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Carpenter

Phone #: 863-500-3901

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:	2021082811	FLT #:	21-	AC:	Mitchell	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0800Z	CP(s):	Doremus	Alaka, Gus	A/C Takeoff	1011.1	Good	Bad	Sent
To:	KLAL	ETA:	1600Z		Copare	Hazelton, Andy			ASOS Takeoff	KLAL 0950Z 1011.6 mb	30
Block Time		Flight Time		NAV:	Hough	Chang, Paul	A/C Land	1012.4			
In:	15:50	Land:	15:44	FE(s):	Darby	Freeman (NAV)			ASOS Land	KLAL 1550Z 1013.7 mb	Good
Out:	7:50	T/O:	7:57	FD(s):	Green		Bennet (FE)	17			2
Total:	8.0	Total:	7.8	SSA:	Mascaro	Visitors:	Storm Number ID:		AL092021		
Sponsoring Org:		NWS / EMC			AVAPS:	Warnecke	(ie: AL072012)				
Program:		PRX			SEB:		TCPOD/WSP0D Mission		NOAA3 0809A IDA		
Purpose:		TDR Mission #2 IDA (Hurr)			MX:		(ie: NOAA2 2418A SANDY)				
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:	4 (Hurricane)			

*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:	2021082811
Flight Director(s):	Carpenter
Mission:	Tasked/Operational
UWZ.d mean:	0.04

Pressure Comparison		
	T/O	Land
Aircraft	1011.1	1012.4
Tower	KLAL 0950Z 1011.6 mb	KLAL 1550Z 1013.7 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 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	✓ PDLAPHAref ✓ PDBETAref ✓ PQALPHAref ✓ 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)					✓ 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
X Miscellaneous FD Notes

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

NOTES:
<p>GPS.4 unavailable.</p> <p>10-20 mb difference between PSM.1 and PSM.2. PSM.2 appears more stable.</p> <p>PitchI.3 and RollI.3 unavailable.</p> <p>TTM.3 inoperative.</p> <p>TDM.3 trends with TDM.1 and TDM.2 but is an outlier.</p> <p>TRadU.1 inoperative.</p>

AVAPS Drop Log

 Project: HURE 21

 Mission: Hurtme Ida

 Flight ID: 20210828I1

 Take Off: 0757Z

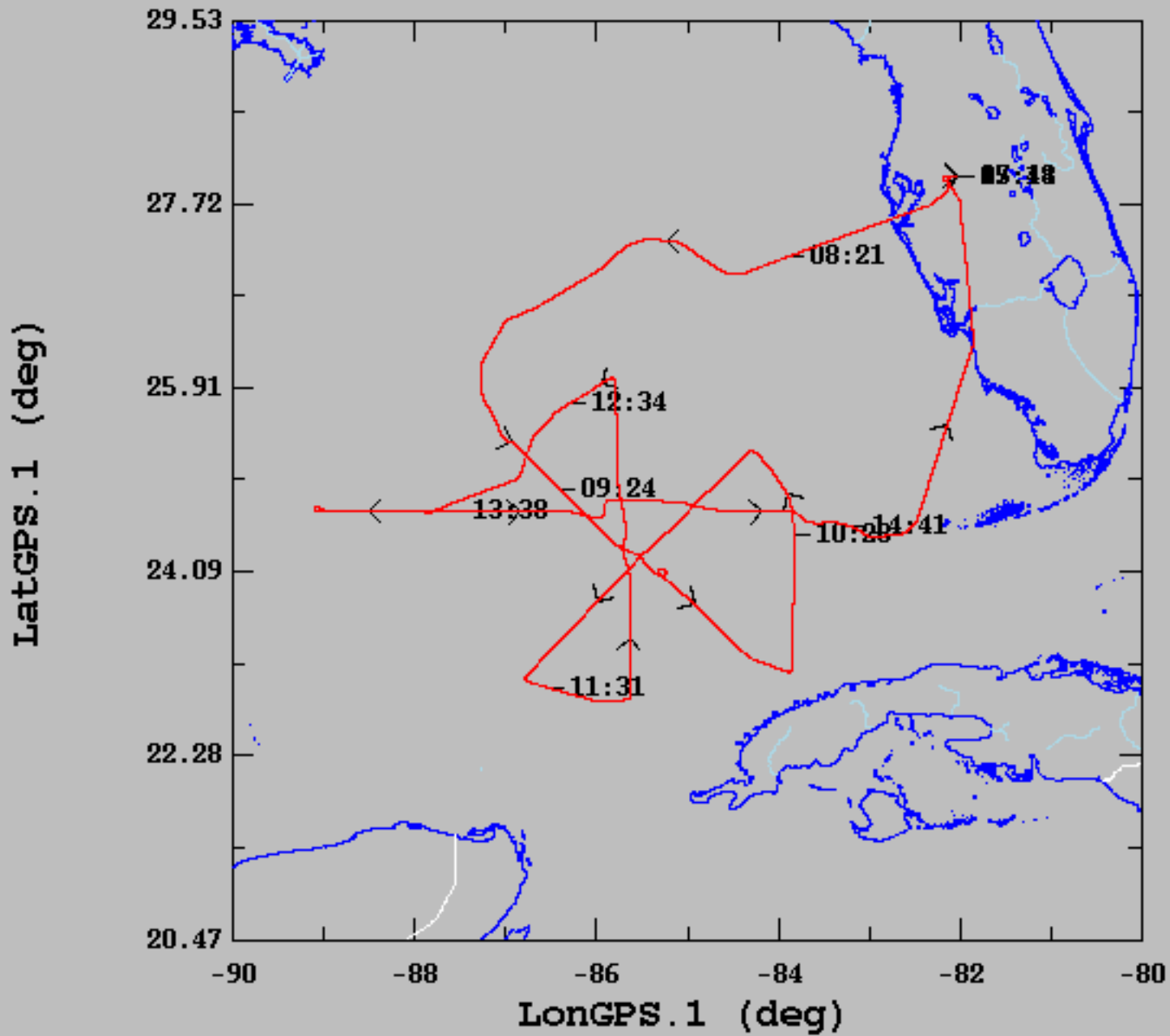
 Landing: [Blank]

 Flt Dir: Capester

 Launcher S/N: 002
25.10

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	204521237	1	-5	0919	JW	NWS	IP 1	✓
2	203630335	2	-4	0932		NWS	Midpoint	✓
3	203350246	3	-1.1	0940		ONR	RMW	✓
4	204650038	4	∅	0944		NWS	CTR	✓
5	204530504	5	∅	0950		ONR	RMW	✓
6	204650399	6	-5	1001		NWS	Midpoint	✓
7	204521383	7	-3	1011		NWS	Endpoint 1	✓
8	204521408	8	-5	1042		NWS	IP 2	✓
9	204521286	1	-5	1050		NWS	Midpoint	✓
10	204521375	2	-5	1058		ONR	RMW	✓
11	204521386	3	-5	1101		NWS	CTR	✓
12	204260589	4	-5	1113		ONR	RMW	✓
13	203350274	5	-1.1	1121		NWS	Midpoint Outbound	✓
14	204650034	6	-3	1127		NWS	Endpoint Outbound	✓
15	204521376	7	-5	1143		NWS	Endpoint inbound	X
16	204521377	8	-5	1144		NWS	Backup endpoint	X
17	204521385	1	-3	1154		NWS	Midpoint inbound	✓
18	204710299	2	∅	1203		ONR	RMW inbound	✓
19	204650035	3	∅	1205		NWS	Center	✓
20	204521374	4	-4	1210		ONR	RMW outbound	✓
21	204521381	5	-4	1222		NWS	Midpoint outbound	✓
22	204270015	6	-4	1227		NWS	Late LID	✓
23	204530194	7	-5	1228		NWS	backup endpoint outbound	✓
24	204530743	8	-4	1236		ONR	repo leg 1	✓
25	204521382	1	-3	1246		ONR	repo leg 2	✓
26	204521384	2	-5	1334		NWS	Endpoint inbound	✓
27	204520776	3	∅	1347		NWS	Midpoint inbound	✓
28	204520795	4	∅	1358		ONR	RMW inbound	✓
29	204520783	5	∅	1402		NWS	Center	✓
30	204650036	6	∅	1405		ONR	RMW outbound	✓
31	204520779	7	∅	1415		NWS	Midpoint outbound	✓
32	204650398	8	∅	1429		NWS	Endpoint outbound	✓

08/28/2021, 07:18:14-15:44:57



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	25.30	1.47	22.81	27.99
— LongGPS.1 (deg), 1 s/sec	-84.97	1.95	-89.09	-81.84