

N42RF ERROR SUMMARY
20200825H2

Flight ID: 20200825H2

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.2
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/2020/MET/20200825H2

Local Met Data	Takeoff KLAL (2054Z)	Landing KLAL (0433Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.307
AttackAngleSlope		6.07515
SlipAngleIntercept		0.237
SlipAngleSlope		7.04607
AttackAngleIntercept2		2.06219
AttackAngleSlope2		5.99068
SlipAngleIntercept2		0.125
SlipAngleSlope2		6.9873

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.

TDM.1 had an issue about 1 hour into flight. TDM.2 is best hygrometer.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Drosondes	23	23	23
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20200825H2	FLT #:	1	AC:	Rossi	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	1700L	CP(s):	Doremus		A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	0200L		Legidakes				23	0	23
Block Time		Flight Time		NAV:	Freeman		ASOS Takeoff		BTs		
In:	441	Land:	434	FE(s):	Heystek				Good	Bad	Sent
Out:	2047	T/O:	2055	FD(s):	Sanchez		A/C Land		0	0	0
Total:	7.9	Total:	7.7	SSA:	Richards				Visitors:	ASOS Land	
Sponsoring Org:	NHC			AVAPS:	McAlister		Storm Number ID:		AL132020		
Program:	PRX			SEB:			(ie: AL072012)				
Purpose:	NHC/EMC Tasking			MX:			TCPOD/WSPOD Mission		2013A LAURA		
							(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		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:	4 cat 1			

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - minimal mission impact.
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Flight ID:	20200825H2
Flight Director(s):	Lundry
Mission:	Tasked/Operational
UWZ.d mean:	0.15

Pressure Comparison		
	T/O	Land
Aircraft	1011.1	1013.8
Tower	1010.9	1011.5

	Raw 1Hz Mean File Parameters				C File Parameters	
<input checked="" type="checkbox"/> Accelerometer	<input checked="" type="checkbox"/> AccAXI.1 <input checked="" type="checkbox"/> AccAXI.2 <input checked="" type="checkbox"/> AccAXI-GPS.1 <input checked="" type="checkbox"/> AccAXI-GPS.2	<input checked="" type="checkbox"/> AccAYI.1 <input checked="" type="checkbox"/> AccAYI.2 <input checked="" type="checkbox"/> AccAYI-GPS.1 <input checked="" type="checkbox"/> AccAYI-GPS.2	<input checked="" type="checkbox"/> AccAZI.1 <input checked="" type="checkbox"/> AccAZI.2 <input checked="" type="checkbox"/> AccAZI-GPS.1 <input checked="" type="checkbox"/> AccAZI-GPS.2	<input checked="" type="checkbox"/> AccZfilter-GPS.1 <input checked="" type="checkbox"/> AccZfilter-GPS.2	<input checked="" type="checkbox"/> AccZref	
<input checked="" type="checkbox"/> Altitude	<input checked="" type="checkbox"/> AltGPS.1 <input checked="" type="checkbox"/> AltGPS.2 <input checked="" type="checkbox"/> AltGPS.3 <input checked="" type="checkbox"/> AltGPS.4	<input checked="" type="checkbox"/> AltI-GPS.1 <input checked="" type="checkbox"/> AltI-GPS.2	<input checked="" type="checkbox"/> AltPaADDU.1 <input checked="" type="checkbox"/> AltBCADDU.1	<input checked="" type="checkbox"/> AltRA.1 <input checked="" type="checkbox"/> AltRA.2	<input checked="" type="checkbox"/> ALTref <input checked="" type="checkbox"/> ALTPA.d <input checked="" type="checkbox"/> ALTGA.d	<input checked="" type="checkbox"/> AltRA1.c <input checked="" type="checkbox"/> AltRA2.c
<input checked="" type="checkbox"/> Ground Speed	<input checked="" type="checkbox"/> GsXI-GPS.1 <input checked="" type="checkbox"/> GsXI-GPS.2	<input checked="" type="checkbox"/> GsYI-GPS.1 <input checked="" type="checkbox"/> GsYI-GPS.2	<input checked="" type="checkbox"/> GsZI-GPS.1 <input checked="" type="checkbox"/> GsZI-GPS.2		<input checked="" type="checkbox"/> GSXref <input checked="" type="checkbox"/> GSYref <input checked="" type="checkbox"/> GSZref	
<input checked="" type="checkbox"/> Lat / Lon	<input checked="" type="checkbox"/> LatGPS.1 <input checked="" type="checkbox"/> LatGPS.2 <input checked="" type="checkbox"/> LatGPS.3 <input checked="" type="checkbox"/> LatGPS.4	<input checked="" type="checkbox"/> LatI-GPS.1 <input checked="" type="checkbox"/> LatI-GPS.2	<input checked="" type="checkbox"/> LonGPS.1 <input checked="" type="checkbox"/> LonGPS.2 <input checked="" type="checkbox"/> LonGPS.3 <input checked="" type="checkbox"/> LonGPS.4	<input checked="" type="checkbox"/> LonI-GPS.1 <input checked="" type="checkbox"/> LonI-GPS.2	<input checked="" type="checkbox"/> LATref <input checked="" type="checkbox"/> LONref	
<input type="checkbox"/> Pressure	<input checked="" type="checkbox"/> PDALPHA.1 <input type="checkbox"/> PDALPHA.2 <input checked="" type="checkbox"/> PDBETA.1 <input type="checkbox"/> PDBETA.2	<input checked="" type="checkbox"/> PQALPHA.1 <input checked="" type="checkbox"/> PQBETA.1	<input checked="" type="checkbox"/> PQM.1 <input checked="" type="checkbox"/> PQM.2 <input checked="" type="checkbox"/> PQM.3 <input checked="" type="checkbox"/> PQM.4	<input checked="" type="checkbox"/> PSM.1 <input checked="" type="checkbox"/> PSM.2 <input checked="" type="checkbox"/> PTM.1	<input checked="" type="checkbox"/> PDLAPHaref <input checked="" type="checkbox"/> PDBETAref <input checked="" type="checkbox"/> PQALPHAref <input checked="" type="checkbox"/> PQBETAref	<input checked="" type="checkbox"/> PQMref <input checked="" type="checkbox"/> PQ.c <input checked="" type="checkbox"/> PSMref <input checked="" type="checkbox"/> PS.c
<input type="checkbox"/> Air Speed	<input checked="" type="checkbox"/> CasADDU.1	<input checked="" type="checkbox"/> TasADDU.1	<input checked="" type="checkbox"/> lasADDU.1		<input checked="" type="checkbox"/> IAS.d	<input checked="" type="checkbox"/> TAS.d
<input type="checkbox"/> Pitch / Roll	<input checked="" type="checkbox"/> PitchI.1 <input checked="" type="checkbox"/> PitchI.2 <input type="checkbox"/> PitchI.3	<input checked="" type="checkbox"/> PitchRatel.1 <input checked="" type="checkbox"/> PitchRatel.2 <input type="checkbox"/> PitchRatel.3	<input checked="" type="checkbox"/> RollI.1 <input checked="" type="checkbox"/> RollI.2 <input type="checkbox"/> RollI.3	<input checked="" type="checkbox"/> RollRatel.1 <input checked="" type="checkbox"/> RollRatel.2 <input type="checkbox"/> RollRatel.3	<input checked="" type="checkbox"/> PITCHref <input checked="" type="checkbox"/> ROLLref	
<input type="checkbox"/> Temp / Dewpt	<input checked="" type="checkbox"/> TTM.1 <input checked="" type="checkbox"/> TTM.2 <input type="checkbox"/> TTM.3	<input checked="" type="checkbox"/> TDM.1 <input checked="" type="checkbox"/> TDM.2 <input checked="" type="checkbox"/> TDM.3	<input checked="" type="checkbox"/> TRadD.1 <input checked="" type="checkbox"/> TRadS.1 <input type="checkbox"/> TRadU.1		<input checked="" type="checkbox"/> TD.c <input checked="" type="checkbox"/> TDMref	<input checked="" type="checkbox"/> TTMref <input checked="" type="checkbox"/> TA.d
<input type="checkbox"/> Misc. (Must check)					<input type="checkbox"/> UWZ.d <input type="checkbox"/> DPJ_WSZ <input checked="" type="checkbox"/> HUM	<input checked="" type="checkbox"/> WS.d <input checked="" type="checkbox"/> WD.d

FLID_Mission_Documents.pdf:
<input checked="" type="checkbox"/> Error Summary
<input checked="" type="checkbox"/> Crew Manifest
<input checked="" type="checkbox"/> QC Checklist
<input checked="" type="checkbox"/> Dropwindsonde Log(s) - AVAPS and FD if completed
<input checked="" type="checkbox"/> Flight Track
<input type="checkbox"/> Miscellaneous FD Notes

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

NOTES:
TDM.1 had an issue after about 1 hour in flight, TDM.2 only good hygrometer

AVAPS Drop Log

Project: Hurricane Laura

Mission: 20200825H2

Flight ID: _____

Take Off: 2100Z

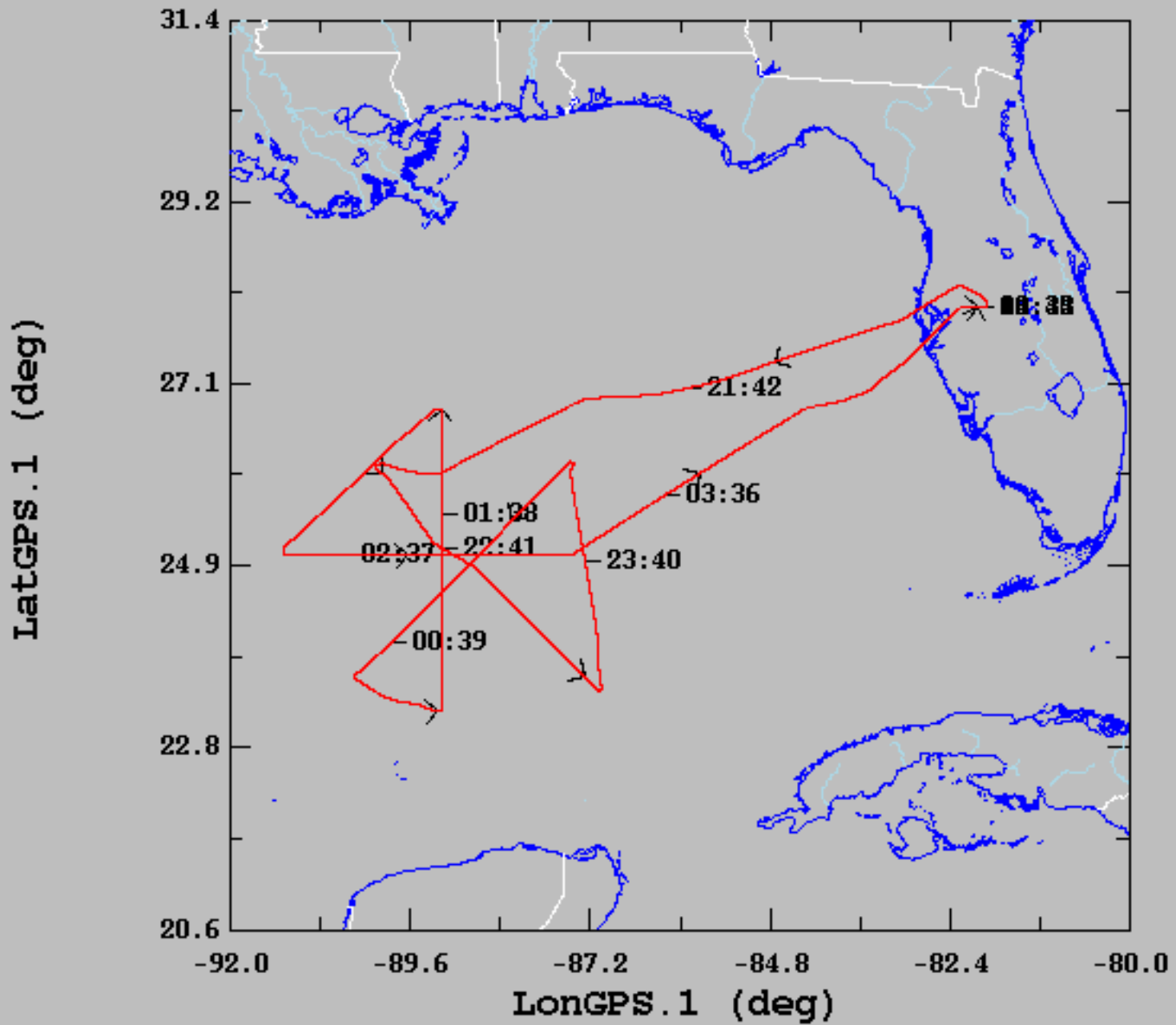
Landing: _____

Flt Dir: Alundry

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	202340179	1	-0.1	2212	MAC	NWS	Pre-IP 20Kft	
2	202340241	2	-0.4	2225	MAC	NWS	IP1	
3	202520415	3	Ø	2238	MAC	NWS	1 st Mid in	
4	202340205	4	Ø	2252	MAC	NWS	1 st Center	
5	202340246	1	-0.3	2304	MAC	NWS	1 st Mid out	
6	202340206	2	-0.4	2320	MAC	NWS	1 st End Point	
7	202340182	3	-0.5	2356	MAC	NWS	IP2	
8	202340239	4	-0.4	0009	MAC	NWS	2 nd mid in	
9	202340256	1	-0.4	0020	MAC	NWS	2 nd Center	
10	202340255	2	-0.4	0033	MAC	NWS	2 nd mid out	
11	202340213	3	-0.4	0047	MAC	NWS	2 nd End Point	
12	202630763	4	-0.3	0104	MAC	NWS	IP3	
13	202340197	1	-0.3	0116	MAC	NWS	3 rd mid in	
14	202340254	2	-0.2	0130	MAC	NWS	3 rd Center	
15	202630768	3	-0.8	0139	MAC	NWS	Rmw drop	
16	202350277	4	-0.4	0144	MAC	NWS	3 rd mid out	
17	202340253	1	-0.5	0155	MAC	NWS	3 rd End point	
18	202520406	2	-0.3	0227	MAC	NWS	IP4	
19	202630764	3	-0.3	0239	MAC	NWS	4 th mid in	
20	202340195	4	-0.4	0252	MAC	NWS	4 th Center	
21	192050082	1	-0.3	0257	MAC	NWS	Rmw	
22	202340234	2	-0.3	0305	MAC	NWS	4 th mid out	
23	202340216	3	Ø	0318	MAC	NWS	4 th End Point	
24								
25								
26								
27								
28								
29								
30								
31								

08/25/2020, 19:44:18-28:35:08



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	25.93	1.43	23.20	28.24
— LongGPS.1 (deg), 1 s/sec	-86.86	2.94	-91.28	-81.90