

N42RF ERROR SUMMARY
20190710H1

Flight ID: 20190710H1

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/2019/MET/20190710H1

Local Met Data	Takeoff KLAL (2002Z)	Landing KLAL (0000Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.31252
AttackAngleSlope		6.06758
SlipAngleIntercept		0.4295
SlipAngleSlope		7.17033

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.

PDAlpha.2 unavailable. PQM.1 and PQM.4 unrepresentative between 00:25 and 00:40 UTC. TTM.2 diverges several degrees from TTM.1 between 21:35 and 21:55 UTC and again between 00:20 and 00:30 UTC. TTM.3 unavailable. TDM.3 several degrees warmer than TDM.1 and TDM.2, though trends representatively. TRadu.1 unavailable.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	24	21	21
Test sondes	0	0	0
AXBTs	5	3	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Holmes / Carpenter
Phone #: 863-500-3901

ACAT-4 Version = 7.2.2

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20190710H1	FLT #:	19-74	AC:	Price	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	20:00Z	CP(s):	Kahn	Rogers, Rob	A/C Takeoff	1010.8	Good	Bad	Sent
To:	KLAL	ETA:	04:00Z		Abitbol	Sellwood, Kathryn	ASOS Takeoff	KLAL 1950Z 1011.0	21	3	21
Block Time		Flight Time		Nav(s):	Richards	Reasor, Paul			A/C Land	1010.3	BTs
In:	1:55	Land:	1:47	FE(s)	Darby	Alford, Addison	ASOS Land	KLAL 0150Z 1011.3			Good
Out:	19:55	T/O:	20:03		Lalonde	Nunez Ocasio, Kelly			3	2	-
Total:	6.00	Total:	5.73	FD(s):	Holmes	Visitors:	Storm Number ID: (ie: AL072012)	AL022019			
Sponsoring Org:		EMC		SEB:	Hartberger						TCPD/WSPD Mission (ie: NOAA2 2418A SANDY)
Program:		PRX		SSA:	Mascaro	OBSERVATIONS					
Purpose:		TDR Mission AL92		AVAPS:	Warnecke						Fix Number
AS REQUIRED BY ORM			Y	N	REMARKS						
VOLCANIC ASH				X							
SCIENCE MISSION WITHIN BDRY LAYER				X							
LACK OF PRECIPITATION				X							
RELATIVE HUMIDITY ≥ 80%			X								
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							
Gmax:				Gmin:		*Highlighted items must be completed before departure.					
Remarks:											

P-3 QC Checklist

Flight ID:	20190710H1
Flight Director(s)	Holmes, Carpenter
UWZ.d mean:	-0.04

Pressure Comparison		
	T/0	Land
Aircraft	1010.8	1010.3
Tower	KLAL 1950Z 1011.0	KLAL 0150Z 1011.3

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

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)	✗

NOTES:

PQM.1 and PQM.4 unrepresentative between 00:25Z - 00:40Z.

TTM.2 diverges several degrees from TTM.1 between 21:35-21:55Z and again between 00:20-00:30Z.

TTM.3 unavailable.

TDM.3 several degrees warmer than TDM.1 and TDM.2 but trends appropriately.

TRadU.1 unavailable.

NOAA • AOC • SED N42RF AVAPS DROP LOG

Lead Tech: Mike Mascaro

Project: Hurricane 2018

Mission:

Flight ID: 20220710H1

Take Off: 2002

Landing:

Flt Dir: Home

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	190140152	1	Ø	2037	JW	NWS		✓
2	190140289	2	Ø	2050				✓
3	190140301	3	Ø	2104				✓
4	190140309	4	Ø	2116				✓
5	190140107	1	Ø	2142				✓
6	190140112	2	Ø	2148				✓
7	190140108	3	Ø	2202				✓
8	190140419	4	Ø	2217				✓
9	190140305	1	Ø	2231				✓
10	190140156	2	Ø	2245				✓
11	190140420	3	Ø	2259				✓
12	190140154	4	Ø	2313				✓
13	190020266	1	Ø	2326				✓
14	140950156	2	Ø	2345				✓
15	190140055	3	Ø	2259				✓
16	190140111	4	Ø	2348				✓
17	190140106	1	Ø	2354				X
18	190950394	2	Ø	2358				✓
19	190140119	3	Ø	0004				✓
20	182300097	4	Ø	0013				X
21	182630090	1	Ø	0125				X
22	182530336	2	Ø	0041				✓
23	182630289	3	Ø	0059				✓
24	185140518	4	Ø	0113	JW	NWS		✓
25								
26								
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34								

20190710H1

~~20907117~~

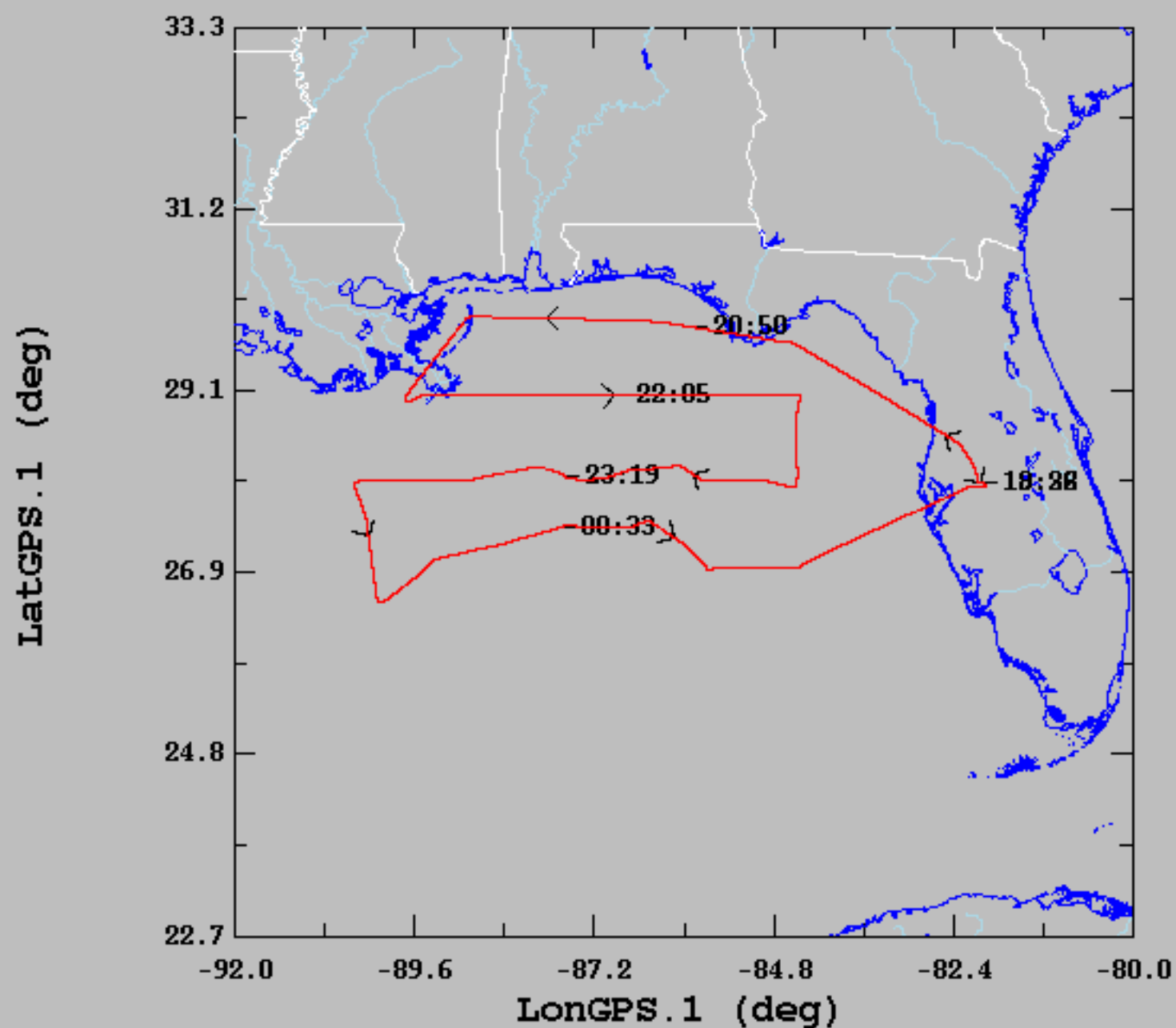
Bary

Takeoff Time _____

Landing Time

[illegible]

07/10/2019, 18:22:08-25:47:54



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	28.25	0.83	26.60	29.92
LongGPS.1 (deg), 1 s/sec	-85.47	2.78	-90.38	-81.94