

N42RF ERROR SUMMARY
20190712H2

Flight ID: 20190712H2

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/20190712H2
Local Met Data	Takeoff KLAL (1949Z) Landing KLAL (0248Z)
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 inoperable. PitchI.3 and RollI.3 unavailable. TTM.3 unavailable. TDM.3 unavailable. Several anomalously high supersaturations noted. TRadU.1 unavailable.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	15	15	15
Test sondes	0	0	0
AXBTS	0	0	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:	20190712H2	FLT #:	19-78	AC:	Price	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	20:00Z	CP(s):	Kahn	Rogers, Rob	A/C Takeoff	1010.1	Good	Bad	Sent
To:	KLAL	ETA:	04:00Z		Abitbol	Sellwood, Kathryn	ASOS Takeoff	KLAL 1950Z 1011.0	15	0	15
Block Time		Flight Time		Nav(s):	Richards	Reasor, Paul			A/C Land	1013.7	BTs
In:	2:56	Land:	2:49	FE(s)	Darby	Zawislak, Jonathan	ASOS Land	KLAL 0255Z 1014.2			Good
Out:	19:39	T/O:	19:49		Lalonde	Visitors:			0	0	0
Total:	7.28	Total:	7.00	FD(s):	Holmes		Shannon, Jonathan	Storm Number ID:			
Sponsoring Org:		EMC		SEB:	Hartberger	(ie: AL072012)		TCPD/WSPD Mission		NOAA2 0902A BARRY	
Program:		PRX		SSA:	Mascaro	(ie: NOAA2 2418A SANDY)					
Purpose:		TDR Mission #5 TS Barry		AVAPS:	Warnecke	OBSERVATIONS					
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
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:	20190712H2
Flight Director(s)	Holmes, Carpenter
UWZ.d mean:	0.09

Pressure Comparison		
	T/O	Land
Aircraft	1010.1	1013.7
Tower	KLAL 1950Z 1011.0	KLAL 0255Z 1014.2

	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	
	X 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		
	X PitchI.3	X PitchRateI.3	X RolLI.3	X RollRateI.3			
✓ Temp / Dewpt	✓ TTM.1	✓ TDM.1	✓ TRadD.1		✓ TD.c	✓ TTMref	
	✓ TTM.2	✓ TDM.2	✓ TRadS.1		✓ TDMref	✓ TA.d	
	X TTM.3	X TDM.3	X 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
X Miscellaneous FD Notes

QC Key	
Not checked	☐
Valid	☒
Errors (note)	X

NOTES:

PDAlpha.2 inoperable.
 PitchI.3 and RolLI.3 unavailable.
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 TDM.3 unavailable. Several anomalously high supersaturations noted.
 TRadU.1 unavailable.

NOAA • AOC • SED N42RF AVAPS DROP LOG

Lead Tech: Mike Mascaro

Project: Hurricane 2019

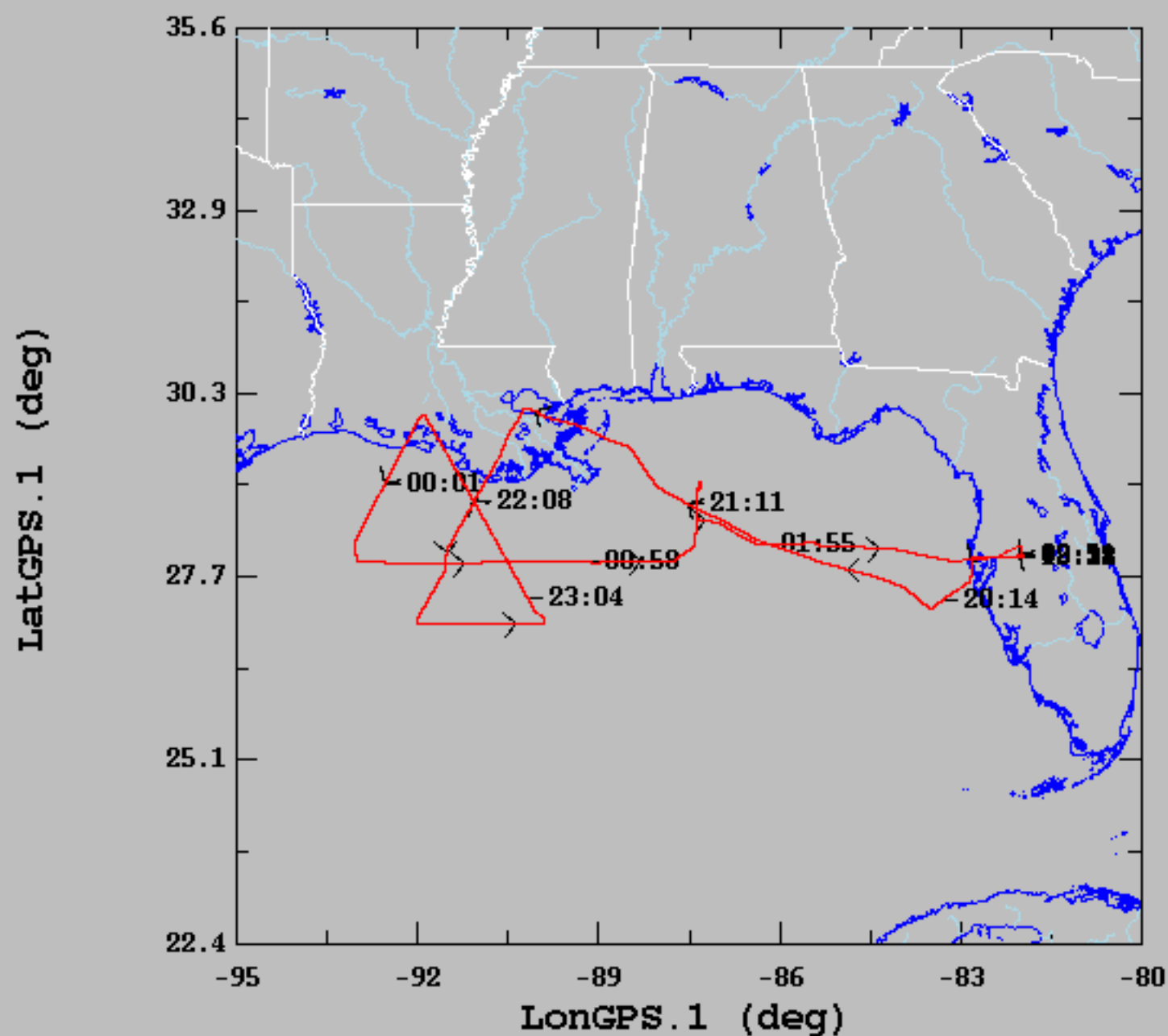
Mission: BarryFlight ID: 2090712 H2

Take Off: _____

Landing: _____ Flt Dir: Holmes

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	182530331	1	-0.9	2205	JEH	NWS		✓
2	182520038	2	Ø	2208				✓
3	182630347	3	Ø	2220				✓
4	182520044	4	Ø	2234				✓
5	182950260	5	Ø	2258				✓
6	183010075	6	Ø	2315				✓
7	182630086	7	Ø	2326				✓
8	182630155	8	Ø	2358				✓
9	182950260	1	Ø	0016				✓
10	182531283	2	Ø	0026				✓
11	182520042	3	Ø	0033				✓
12	182630344	4	Ø	0049				✓
13	182221124	5	Ø	0100				✓
14	182630152	5	Ø	0130				✓
15	182520048	6	Ø	0141				✓
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07/12/2019, 18:21:20-26:51:44



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	28.23	0.71	27.00	30.10
LonGPS.1 (deg), 1 s/sec	-87.19	3.79	-93.01	-81.96