

N42RF ERROR SUMMARY  
20190711H2

Flight ID: 20190711H2

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/20190711H2
Local Met Data	Takeoff KLAL (2012Z) Landing KLAL (0348Z)
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. PDBeta.2 significant drop between 0020-0035Z. PQM.1 drops noted at approximately 2352 and 0159Z. PitchI.3 and RollI.3 unavailable. TTM.2 briefly diverged noticeably from TTM.1 at approximately 0022Z. TTM.3 unavailable. While TDM.1 and TDM.3 generally tracked with TDM.2, values are unrepresentative. Intermittent periods of anomalously high supersaturations noted. TRadU.1 unavailable.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	20	20	20
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:	20190711H2	FLT #:	19-76	AC:	Price	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	20:00Z	CP(s):	Kahn	Rogers, Rob	A/C Takeoff	1010.5	Good	Bad	Sent
To:	KLAL	ETA:	04:00Z		Abitbol	Sellwood, Kathryn	ASOS Takeoff	KLAL 1950Z 1010.3	20	0	20
Block Time		Flight Time		Nav(s):	Richards	Reasor, Paul			A/C Land	1011..0	BTs
In:	3:55	Land:	3:49	FE(s):	Darby		ASOS Land	KLAL 0355Z 1011.6			Good
Out:	20:04	T/O:	20:12	FD(s):	Lalonde		Visitors:	Storm Number ID: (ie: AL072012)	0	0	0
Total:	7.85	Total:	7.62	SEB:	Holmes				Mazzei, Patricia	AL022019	
Sponsoring Org:	EMC			SSA:	Carpenter		Lee, Chang	TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)	NOAA2 0502A BARRY		
Program:	PRX			AVAPS:	Hartberger				OBSERVATIONS		
Purpose:	TDR Mission #3 TS Barry				Mascaro						
					Warnecke						
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						
<b>Gmax:</b>				<b>Gmin:</b>			*Highlighted items must be completed before departure.				
<b>Remarks:</b>											

## P-3 QC Checklist

<b>Flight ID:</b>	<b>20190711H2</b>
<b>Flight Director(s)</b>	<b>Holmes, Carpenter</b>
<b>UWZ.d mean:</b>	<b>0.05</b>

Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	<b>1010.5</b>	<b>1011.0</b>
<b>Tower</b>	<b>KLAL 1950Z 1010.3</b>	<b>KLAL 0355Z 1011.6</b>

	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 ✓ 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 ✓ LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	✓ LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3 ✓ 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	✓ IasADDU.1		✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 ✗ PitchI.3	✓ PitchRateI.1 ✓ PitchRateI.2 ✗ PitchRateI.3	✓ RolLI.1 ✓ RolLI.2 ✗ RolLI.3	✓ RollRateI.1 ✓ RollRateI.2 ✗ RollRateI.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 ✗ TTM.3	✗ TDM.1 ✓ TDM.2 ✗ TDM.3	✓ TRadD.1 ✓ TRadS.1 ✗ 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
✗	Miscellaneous FD Notes

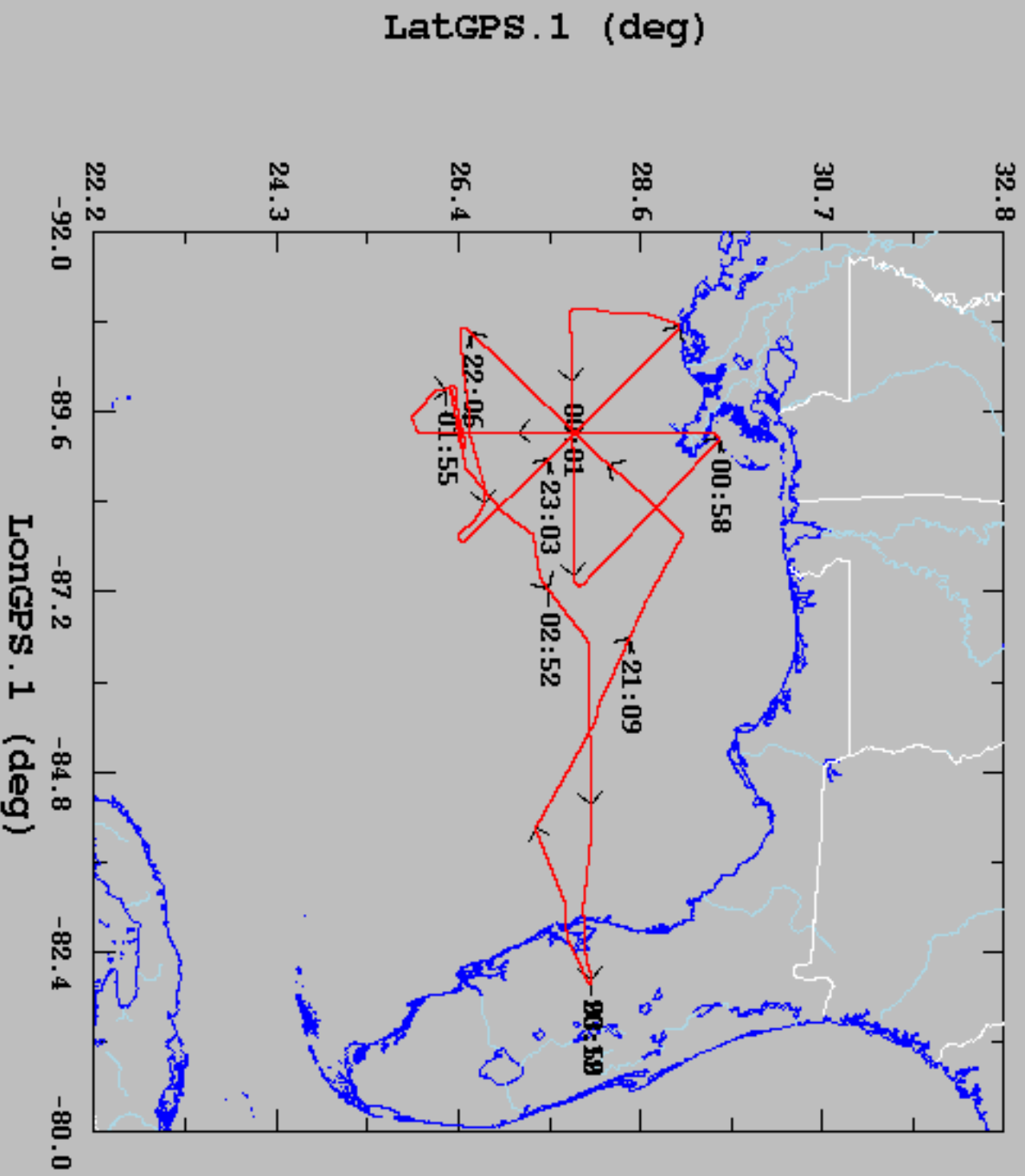
QC Key	
Not checked	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/>

### NOTES:

**PDAlpha.2 inoperable.**  
**PDBeta.2 significant drop between 00:20-00:35.**  
**PQM.1 drops noted at 23:52 and 01:59 UTC.**  
**PitchI.3 and RolLI.3 unavailable.**  
**TTM.2 briefly diverged noticeably from TTM.1 at approximately 00:22 UTC.**  
**TTM.3 unavailable.**  
**While TDM.1 and TDM.3 generally track with TDM.2, values are not representative. Periods of anomalously high supersaturations.**  
**TRadU.1 unavailable.**



07/11/2019, 20:12:00-27:50:05



— LatGPS.1 (deg), 1 s/sec      mean      sigma      min      max  
— LongGPS.1 (deg), 1 s/sec      -87.91      2.40      -90.97      -81.96