

N42RF ERROR SUMMARY  
20200918H1

Flight ID: 20200918H1

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/20200918H1

Local Met Data	Takeoff TISX (1400Z)	Landing TISX (0000Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.27641
AttackAngleSlope		6.01899
SlipAngleIntercept		0.232
SlipAngleSlope		7.17429
AttackAngleIntercept2		2.06387
AttackAngleSlope2	6.01177	
SlipAngleIntercept2		0.195
SlipAngleSlope2		6.67434

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 and PDBETA.2 inop for duration of flight  
PSM.1 trending ~1 mb high  
TDM.1 oscillating but trends  
TDM.3 inop for duration of flight  
TRadU.1 unavailable

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	24	24	24
Test sondes	0	0	0
AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Holmes  
Phone #: 863-500-3983

ACAT-4 Version = 7.3

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
<b>FLT ID:</b>	20200918H1	<b>FLT #:</b>		<b>AC:</b>	Abitbol	<b>Scientists:</b>	<b>Pressure</b>		<b>Dropsondes</b>		
<b>From:</b>	TISX	<b>ETD:</b>	1000	<b>CP(s):</b>	Mitchell	Chang	A/C Takeoff		Good	Bad	Sent
<b>To:</b>	TISX	<b>ETA:</b>	1800		Rannenberg	Zawislak			24	0	24
<b>Block Time</b>		<b>Flight Time</b>		<b>NAV:</b>	Richards (B)	Sapp	ASOS Takeoff		<b>BTs</b>		
<b>In:</b>	2304	<b>Land:</b>	2301	<b>FE(s):</b>	Darby	Jelenak			Good	Bad	Sent
<b>Out:</b>	1355	<b>T/O:</b>	1400	<b>FD(s):</b>	Lalonde		ASOS Land		0	0	0
<b>Total:</b>	<b>9.2</b>	<b>Total:</b>	<b>9.0</b>	<b>SSA:</b>	Mascaro	<b>Visitors:</b>			Storm Number ID:		
<b>Sponsoring Org:</b>	NESDIS			<b>AVAPS:</b>	Warnecke		(ie: AL072012)				
<b>Program:</b>	PED			<b>MX:</b>			TCPOD/WSPOD Mission				
<b>Purpose:</b>	Hurr TEDDY Research						(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					x		<b>1</b>			952	
SCIENCE MISSION WITHIN BDRY LAYER					x						
LACK OF PRECIPITATION					x		<b>2</b>				
RELATIVE HUMIDITY ≥ 80%				x		9 X CAT IV Pennies					
LARGE AIR-SEA TEMP GRADIENT					x		<b>3</b>				
HIGH SURFACE WINDS				x							
LONG FETCH / DURATION OF SFC WND				x			<b>4</b>				
SEA SALT ACCRETION FORECAST					x						
SEA SALT ACCRETION OBSERVED							<b>Pennies:</b>				
							*Highlighted items must be completed before departure.				
<b>Remarks:</b>											

## P-3 QC Checklist

<b>Flight ID:</b>	<b>20200918H1</b>
<b>Flight Director(s)</b>	<b>Holmes</b>
<b>UWZ.d mean:</b>	<b>0.23</b>

Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	<b>1010.3</b>	<b>-</b>
<b>Tower</b>	<b>1010.6</b>	<b>1007.9</b>

	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 checked="" type="checkbox"/> Pressure	<input checked="" type="checkbox"/> PDALPHA.1 <input checked="" type="checkbox"/> PDALPHA.2 <input checked="" type="checkbox"/> PDBETA.1 <input checked="" 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 checked="" type="checkbox"/> Air Speed	<input checked="" type="checkbox"/> CasADDU.1	<input checked="" type="checkbox"/> TasADDU.1	<input checked="" type="checkbox"/> IasADDU.1	<input checked="" type="checkbox"/> IAS.d <input checked="" type="checkbox"/> TAS.d		
<input checked="" 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"/> PitchRateI.1 <input checked="" type="checkbox"/> PitchRateI.2 <input type="checkbox"/> PitchRateI.3	<input checked="" type="checkbox"/> RolLI.1 <input checked="" type="checkbox"/> RolLI.2 <input type="checkbox"/> RolLI.3	<input checked="" type="checkbox"/> RollRateI.1 <input checked="" type="checkbox"/> RollRateI.2 <input type="checkbox"/> RollRateI.3	<input checked="" type="checkbox"/> PITCHref <input checked="" type="checkbox"/> ROLLref	
<input checked="" 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 checked="" type="checkbox"/> Misc. (Must check)					<input checked="" type="checkbox"/> UWZ.d <input checked="" 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 checked="" 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:

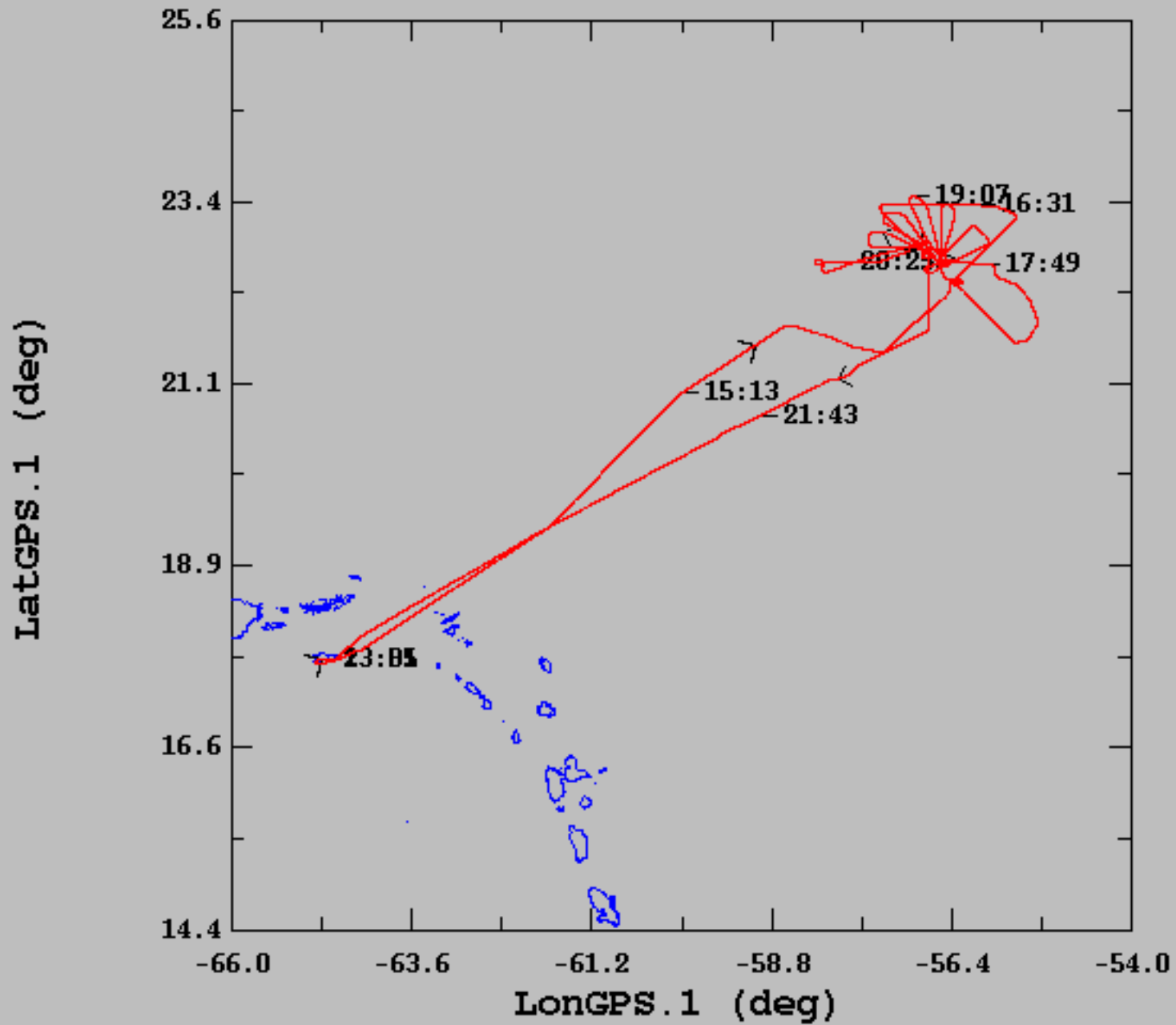
**PDALPHA.2 and PDBETA.2 inop for duration of flight**  
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# AVAPS Drop Log

Project: Hurr 20 Mission: M Hurr Teddy #2 Flight ID: 2020091844  
 Take Off: 1A00Z Landing: \_\_\_\_\_ Flt Dir: Holmes Launcher S/N: \_\_\_\_\_

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?	
1	200370130	1	-1.2	1548	JW	HRD	IP #1	✓	
2	192010901	2	-1.5	1607		NWS	Center #1	✓	
3	192041107	3	-1.5	1624		HRD	ENDPOINT #1	✓	
4	19492055	4	-1.6	1645		HRD	IP #2	✓	
5	202330438	5	0	1729		HRD	ENDPOINT #2	✓	
6	201730228	6	0	1751		NESDIS	1st of 3	✓	
7	201620309	1	-1.5	1752		NESDIS		2nd of 3	✓
8	202330437	2	-1.5	1753		NESDIS		3rd of 3	✓
9	202330418	3	-1.5	1819		NESDIS	1st of 4	✓	
10	201730204	4	0	1820		NESDIS		2nd of 4	✓
11	195120770	5	0	1821		NESDIS		3rd of 4	✓
12	194820794	6	0	1821		NESDIS		4th of 4	✓
13	201721044	1	-1.5	1844		NESDIS	1 of 4	✓	
14	200530418	2	-1.0	1845		NESDIS	2 of 4	✓	
15	200520879	3	-1.0	1845		NESDIS	3 of 4	✓	
16	201620177	4	-1.8	1846		NESDIS	4 of 4	✓	
17	201350912	5	-1.0	1913		NESDIS	1 of 3	✓	
18	195120779	6	-1.4	1913		NESDIS	2 of 3	✓	
19	201620163	1	-1.0	1915		NESDIS		3 of 3	✓
20	202330411	2	0	1938		NESDIS	1 of 3	✗	
21	201721210	3	0	—		NESDIS	No launch detected	✗	
22	201730227	4	0	1940		NESDIS	3 of 3	✓	
23	202330434	5	0	2024		NESDIS		1 of 2	✓
24	201730224	6	0	2025		NESDIS	2 of 2	✓	
25	201730229	1	0			NESDIS			
26	201620191	2	0			NESDIS			
27	201730239	3	0			NESDIS			
28	201730624	4	0			NESDIS			
29									
30									
31									

2020-09-18, 13:55:00-23:01:52



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	21.50	1.71	17.65	23.45
— LonGPS.1 (deg), 1 s/sec	-58.46	2.71	-64.86	-55.24