

N43RF ERROR SUMMARY
20200605I1

Flight ID: 20200605I1

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.1
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/20200605I1
Local Met Data	Takeoff KLAL (2018Z) Landing KLAL (0000Z)
Dynamic Corrections	Yes
AttackAngleIntercept	0.122351
AttackAngleSlope	6.0273
SlipAngleIntercept	0.214857
SlipAngleSlope	7.10815

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.

GPS.4 unavailable. PDAlpha.2 unreliable after 0304Z. Multiple unrepresentative spikes in PDBeta.2. Brief PQM.1 failure at 2358Z. PQM.4 unreliable after 0300Z. TTM.3 inoperative. TDM.3 inoperative. TRadU.1 inoperative.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	22	21	21
Test sondes	0	0	0
AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Carpenter / Holmes

Phone #: 863-500-3901

ACAT-4 Version = 7.3

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N43RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2020060511	FLT #:	20-40	AC:	Abitbol	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	2000Z	CP(s):	Rossi		A/C Takeoff	1011.0 (.2)	Good	Bad	Sent
To:	KLAL	ETA:	0400Z		Rannenberg		ASOS Takeoff		KLAL 1950Z 1011.3 mb	21	1
Block Time		Flight Time		NAV:	Richards/B		A/C Land	1012.4	Good	Bad	Sent
In:	4:04	Land:	3:58	FE(s):	Darby		ASOS Land	KLAL 0355Z 1012.2 mb	0	0	0
Out:	20:08	T/O:	20:19	FD(s):	Lalonde	Visitors:	Storm Number ID:		AL032020		
Total:	7.93	Total:	7.65	SSA:	Richards/T		(ie: AL072012)				
Sponsoring Org:		EMC		SEB:		TCPOD/WSPOD Mission		NOAA3 0403A CRISTOBAL			
Program:		PRX					(ie: NOAA2 2418A SANDY)				
Purpose:		TDR Mission #1 - TS Cristobal		MX:		OBSERVATIONS					
AS REQUIRED BY ORM			Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP		
VOLCANIC ASH				X		1					
SCIENCE MISSION WITHIN BDRY LAYER				X							
LACK OF PRECIPITATION				X		2					
RELATIVE HUMIDITY ≥ 80%			X								
LARGE AIR-SEA TEMP GRADIENT				X		3					
HIGH SURFACE WINDS			X								
LONG FETCH / DURATION OF SFC WND			X			4					
SEA SALT ACCRETION FORECAST				X							
SEA SALT ACCRETION OBSERVED				X							
						Pennies:					

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Flight ID:	2020060511
Flight Director(s):	Carpenter / Holmes
UWZ.d mean:	0.01 post-processing

Pressure Comparison		
	T/O	Land
Aircraft	1011.0	1012.4
Tower	KLAL 1950Z 1011.3 mb	KLAL 0355Z 1012.2 mb

	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 X 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 X LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	✓ LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3 X LonGPS.4	✓ LonI-GPS.1 ✓ LonI-GPS.2	✓ LATref ✓ LONref	
✓ Pressure	✓ PDALPHA.1 X PDALPHA.2 ✓ PDBETA.1 X PDBETA.2	✓ PQALPHA.1 ✓ PQBETA.1	X PQM.1 ✓ PQM.2 ✓ PQM.3 X 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 X PitchI.3	✓ PitchRateI.1 ✓ PitchRateI.2 X PitchRateI.3	✓ RollI.1 ✓ RollI.2 X RollI.3	✓ RollRateI.1 ✓ RollRateI.2 X RollRateI.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 X TTM.3	✓ TDM.1 ✓ TDM.2 X TDM.3	✓ TRadD.1 ✓ TRadS.1 X 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
X	Miscellaneous FD Notes

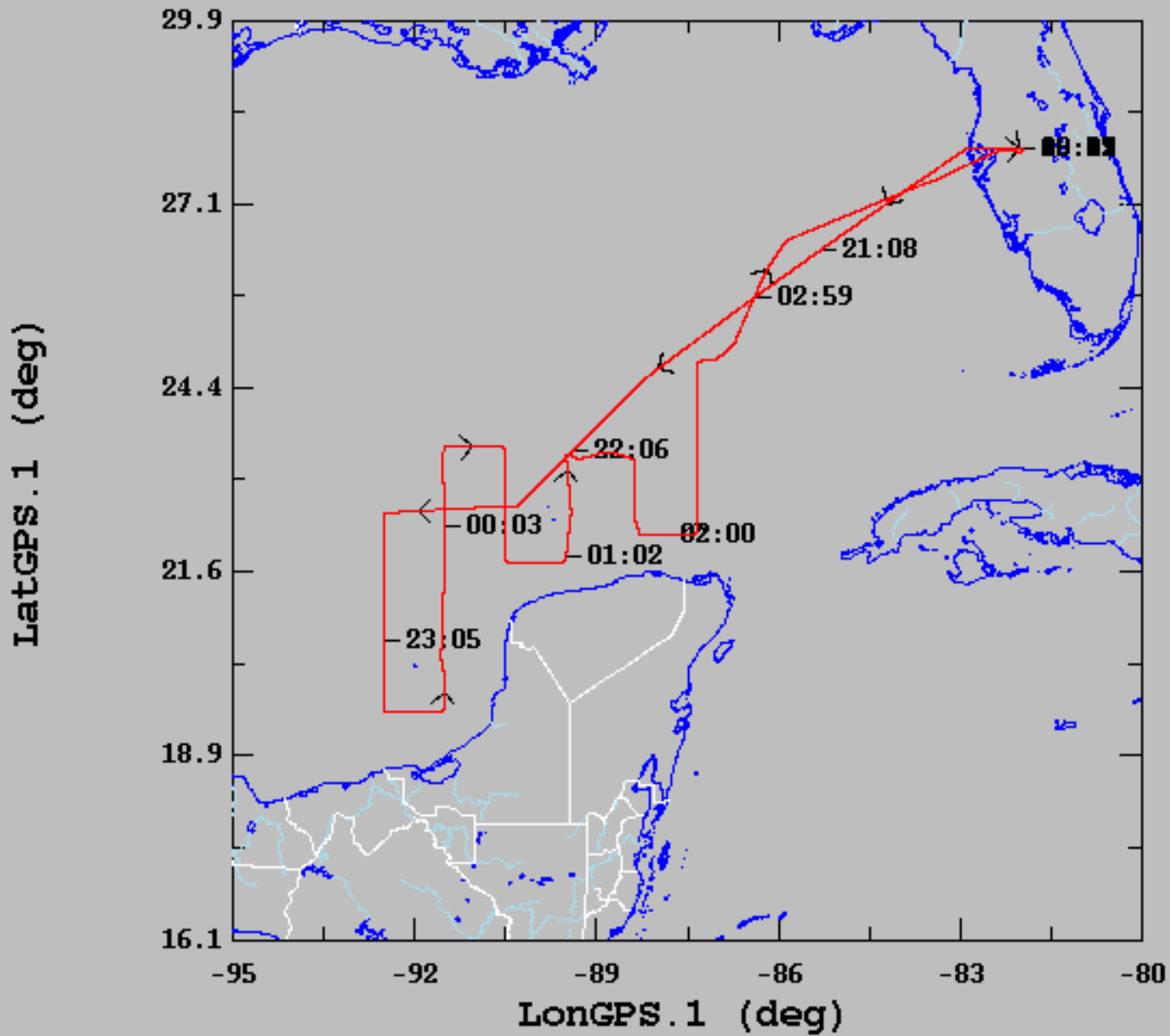
QC Key	
Not checked	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/>

NOTES:
<p>GPS.4 unavailable.</p> <p>PDAlpha.2 failure after 0304Z.</p> <p>Multiple unrepresentative spikes in PDBeta.2.</p> <p>Brief PQM.1 failure at 2358Z, PQM.4 unreliable after 0300Z.</p> <p>TTM.3 inoperative.</p> <p>TDM.3 inoperative.</p> <p>TRadU.1 inoperative.</p>

AOC GPS Dropwindsonde Log (TAG)

Flight ID	2020060511	ASPEN Operator/Flight Director(s)	Kalen/Lundry/Hathaway(TAG) Carpenter, Homes (FD)									
Mission ID	0403A	Storm Name/Track	Cristobal									
Sonde #	Ob#	Launch Time HHMMSS(Z)	Sonde ID (last 5)	Ch #	Lat	Lon	Prominent Wx Cond	SFC Prs (mb)	Comments/Issues/QC/ASPEN Edits	KWBC #	Sonde Issues?	
1	1	224437	41780	1	22.4676	-92.4825		1005.3		52305	N	
2	2	225532	20016	2	21.4668	-92.4996		1005.3		52313	N	
3	3	230622	20683	3	20.4901	-92.4996		1004.6		52323	N	
4	4	231746	41750	4	19.5142	-92.4702		1005.7		52340	N	
5	5	232813	10400	1	19.5265	-91.5171		1004.5		52347	N	
6	6	234031	40316	2	20.5133	-91.5404		1003.2		60002	N	
7	7	235329	40180	3	21.5084	-91.5004		1002		60012	N	
8	8	000643	30789	4	22.5107	-91.5005		1001.6		60028	N	
9	9	001945	40489	1	23.4975	-91.483		1004.6		60035	N	
10	10	003108	30163	2	23.4694	-90.5101		1001.4		60048	N	
11	11	004251	40100	3	22.4736	-90.4996		1000		60059	N	
12	12	005105	40907	4	21.766	-90.4689		999.6		60105	N	
13	13	010121	30524	1	21.7731	-89.5159		1000.3		60115	N	
14	14	011003	20613	2	22.5127	-89.4027		999.4		60121	N	
15	15	012032	40441	3	23.3205	-89.4821		1000.6		60139	N	
16	16	013453	50007	4	23.3603	-88.539		1001.4		60146	N	
17	17	014631	20276	1	22.7456	-88.3577		1002.1	Gap in data	60157	Y	
18	18	015620	41748	2	22.181	-88.2663		1000.2		60207	N	
19	19	020925	50406	3	22.1988	-87.3391		1003.5		60222	N	
20	20	021617	40225	4	22.7624	-87.3326		1004		60236	N	
21	-	022509	41433	1	23.5599	-87.3266		1003.9	bad GPS signal for most of sonde	-	Y	
22	21	022740	50286	2	23.7154	-873.288		1004.6	Bad GPS for part, LAST REPORT	60243	Y	

06/05/2020, 18:12:39-27:57:57



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	24.77	2.68	19.50	27.99
— LongGPS.1 (deg), 1 s/sec	-86.91	3.71	-92.50	-81.95