

N42RF ERROR SUMMARY

Flight ID: 20190929H1

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/20190929H1

Local Met Data	Takeoff (1426Z)	Landing (2341Z)
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.

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

Flight Director:

Phone #:

ACAT-4 Version = 7.3

P-3 QC Checklist

Flight ID:	20190929H1
Flight Director(s):	Holmes
UWZ.d mean:	-0.01 m/s

Pressure Comparison		
	T/O	Land
Aircraft	1008.2	--
Tower	1007.8	

	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	✓ PitchRatel.1 ✓ PitchRatel.2 ✓ PitchRatel.3	✓ RollI.1 ✓ RollI.2 ✓ RollI.3	✓ RollRatel.1 ✓ RollRatel.2 ✓ RollRatel.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	☐
Valid	✓
Errors (note)	✗

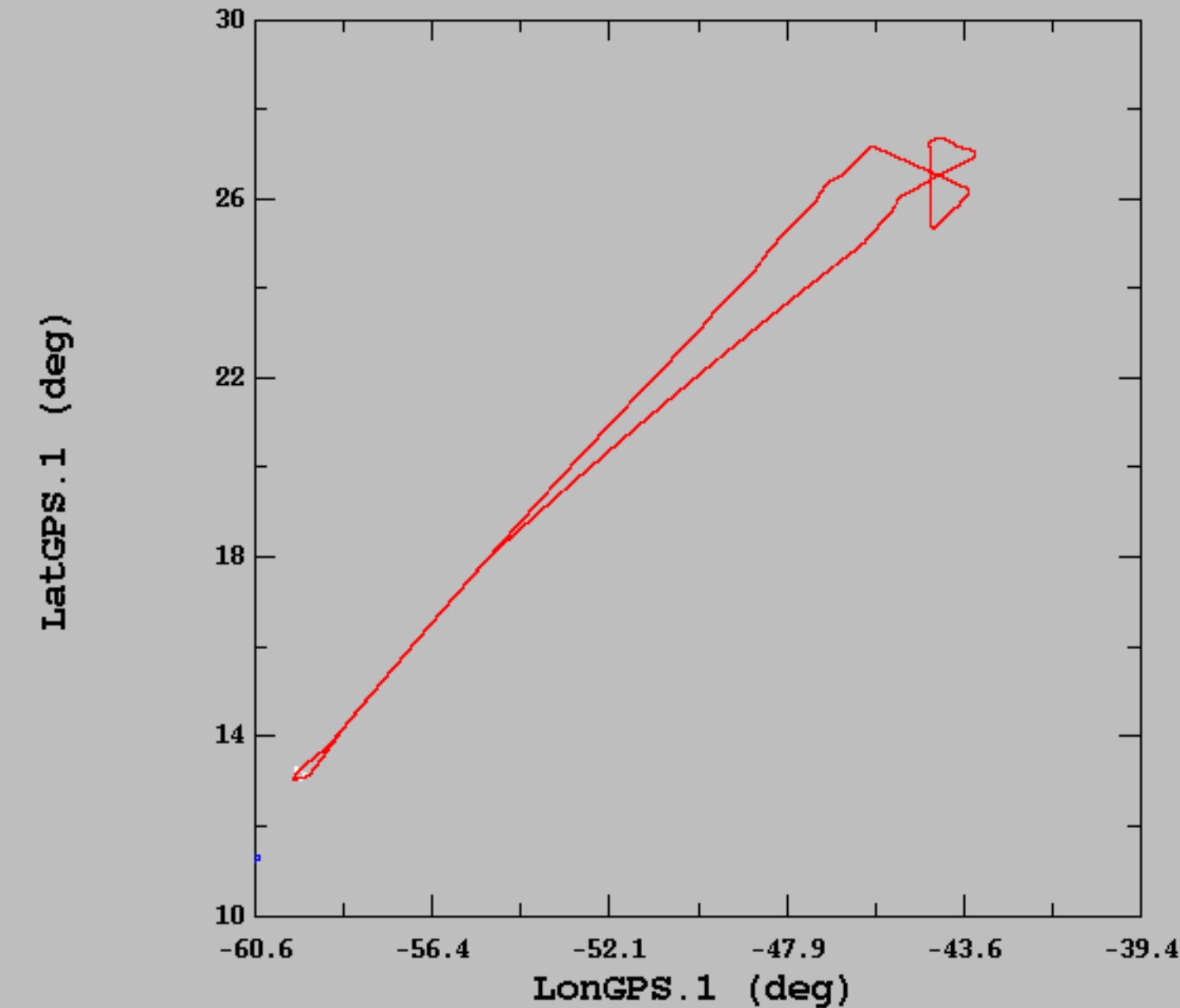
NOTES:
PDAlpha.2 INOP for entire mission PDBeta.2 INOP for entire mission TDM.2 unrepresentative 15:36Z-15:42Z TDM.1 unrepresentative for latter 2/3rds of mission PQM.1 unrepresentative for entire mission None of these instrument failures with the exception of the TDM.2 issue affected the realtime dataset or the post processed dataset.

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20190929H1	FLT #:	2	AC:	Kahn	Scientists:	Pressure		Dropsondes		
From:	TBPB	ETD:	1430Z	CP(s):	Mitchell	Sapp	A/C Takeoff		Good	Bad	Sent
To:	TBPB	ETA:	2330Z		Abitbol	Sellwood					
Block Time		Flight Time		Nav(s):	Richards, B	Alvey, George	ASOS Takeoff		15	2	15
In:	2346	Land:	2342			Zawislak			BTs		
Out:	1419	T/O:	1427	FE(s):	Darby	Chang	A/C Land		Good	Bad	Sent
					Heystek	Jelenak					
Total:	0:00 9.4	Total:	0:00 9.3	FD(s):	Holmes		ASOS Land		0	0	0
Sponsoring Org:		NESDIS		SEB:	McAlister		Storm Number ID:		AL132019		
Program:		PND					(ie: AL142018)				
Purpose:		Research		SSA:	Mascaro		TCP0D/WSP0D Mission		WF13A LORENZO		
							(ie: NOAA2 0614A MICHAEL)				
AS REQUIRED BY ORM				AVAPS:	Underwood		OBSERVATIONS				
	Y	N		REMARKS			Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH		X									
SCIENCE MISSION WITHIN BDRY LAYER		x									
LACK OF PRECIPITATION	y										
RELATIVE HUMIDITY ≥ 80%	y										
LARGE AIR-SEA TEMP GRADIENT		X		3 x 6 Annies CATIV							
HIGH SURFACE WINDS	X										
LONG FETCH / DURATION OF SFC WND	x										
SEA SALT ACCRETION FORECAST		X									
SEA SALT ACCRETION OBSERVED		X									
							*Highlighted items must be completed before departure.				
Remarks:											
5x HRD Sondas, 12x NESDIS Sondas											

20190929H1 Flight Track

2019-09-29, 13:42:49-23:42:18



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	20.64	4.82	13.04	27.33
LonGPS.1 (deg), 1 s/sec	-51.63	5.39	-59.69	-43.30

Com 26 1330-1430

AVAPS Drop Log

Project: Ocean Winds Summer Mission: Hurricane Lorenzo Flight ID: 20190929H1Take Off: 1426Z Landing: _____ Flt Dir: Holmes Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	185050642	1	-0.6	1759Z	NGU	HRD		✓
2	185146154	2	0.0	1810Z		HRD		✓
3	190956410	3	0.0	1813Z		NES		✓
4	185136761	4	-0.6	1814Z				✓
5	190956402	1	-0.7	1818Z				✓
6	150845214	5	-1.5	1822Z		AOC	Mini	✓
7	190140120	2	0.0	1825Z		HRD		✓
8	190140231	3	0	1840Z		NES		✓
9	190140128	4	0	1847Z				✓
10	190140110	1	0	1848Z				✓
11	185150316	5	0	1908Z		HRD		✓
12	185150429	6	0	1914Z		NES		✓
13	185150428	2	0	1919Z		NESBIS		✓
14	190140102	3	0	1925Z		NESBIS		✓
15	190140153	4	0	1928Z				✓
16	190140119	7	0					✓
17	190140117	1	0			HRD		✓
18			0					
19								
20								
21								
22								
23								
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27								
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30								
31								