

N42RF ERROR SUMMARY
20190920H1 WC10A JERRY

Flight ID: 20190920H1

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/20190920H1

Local Met Data	Takeoff TISX (1056Z)	Landing TISX (1909Z)
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 are INOP

PQM.1 is offset from PQM.2, PQM.3 and PQM.4

TDM.3 is unrepresentative

Gap in data from 1707 to 1714Z and 1745 to 1750Z due to data system restarts

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Drosondes	22	21	20
Test sondes	0	0	0
AXBTS	0	0	0

AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Lundry, Holmes
Phone #: 868-500-3898

ACAT-4 Version = 7.3

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20190920H1	FLT #:		AC:	Didier	Scientists:	Pressure		Dropsondes		
From:	TISX	ETD:	1100Z	CP(s):	Kahn	Zawislak	A/C Takeoff		Good	Bad	Sent
To:	TISX	ETA:	1900Z		Legidakes	Rogers			21	1	20
Block Time		Flight Time		Nav(s):	Freeman	Ryan	ASOS Takeoff		BTs		
In:	19:12	Land:	19:09	FE(s)	Sanchez	Chang	A/C Land		Good	Bad	Sent
Out:	10:52	T/O:	10:57		Lalonde	Jelenak			0	0	0
Total:	8.3	Total:	8.2	FD(s):	Lundry		ASOS Land				
Sponsoring Org:		HRD		SEB:	Peek	McFadden	Storm Number ID:		AL102019		
Program:		PHX				McDonnell	(ie: AL142018)				
Purpose:		RESEARCH		SSA:	Mascaro		TCPD/WSPD Mission		WC10A JERRY		
							(ie: NOAA2 0614A MICHAEL)				
				AVAPS:	Greene		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							
*Highlighted items must be completed before departure.											
Remarks:											

P-3 QC Checklist

Flight ID:	20190920H1
Flight Director(s):	Lundry, Holmes
UWZ.d mean:	0.03

Pressure Comparison		
	T/O	Land
Aircraft	1011.0	1008.6
Tower	1009.9	1008.9

	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 ☒ 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
n/a Miscellaneous FD Notes

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

NOTES:
PDALPHA.2 and PDBETA.2 are INOP PQM.1 is offset from PQM.2, PQM.3 and PQM.4 TDM.3 unrepresentative Gap in data from 1707 to 1714 and 1745 to 1750 due to data system restarts QC by Ashley Lundry

AVAPS Drop Log

Project: _____

Mission: H. JERRY

Flight ID: 20190920H1

Take Off: _____

Landing: _____

Flt Dir: ASHLEY

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	191050420	1	0	1216	JG	HRO	EP	✓
2	185130763	2	-0.5	1224	JG	HRO	MP	✓
3	185130760	3	-0.7	1238	JG	NWS	CENTER	✓
4	191720576	4	0	1252	JG	HRO	MP	✓
5	191640242	5	-0.7	1302	JG	HRO	ED	✓
6	185130790	1	-0.7	1321	JG	HRO	EP	✓
7	191010394	2	-0.7	1340	JG	HRO	MP	✓
8	185140105	3	-0.9	1352	JG	NWS	CP	✓
9	185130757	4	-0.8	1357	JG	HRO	RMW	✓
10	191720621	5	0	1405	JG	HRO	MP	✓
11	191050429	6	0	1419	JG	HRO	EP	✓
12	191640232	1	-0.4	1442	JG	HRO	EP	✓
13	192040998	2	-0.4	1456	JG	HRO	MP	✓
14	191750174	3	-0.4	1524	JG	HRO	MP	✓
15	192030067	4	-0.3	1535	JG	HRO	EP	✓
16	192040005	5	-0.3	1547	JG	HRO	EP	✓
17	192050129	6	-0.5	1559	JG	HRO	MP	✓
18	192040748	7	-0.3	1625	JG	HRO	MP	✓
19	192040004	1	-0.4	1632	JG	HRO	EP	✓
20	192040749	1	-0.5	1740	JG	NESDIS	FAST FALL	X
21	185120810	2	-0.8	1747	JG	NESDIS		✓
22	191030430	3	-0.6	1755	JG	NESDIS		
23	185130764	4	-0.8					
24	191050437	5	-0.6					
25	185050757	6	-0.6					
26								
27								
28								
29								
30								
31								

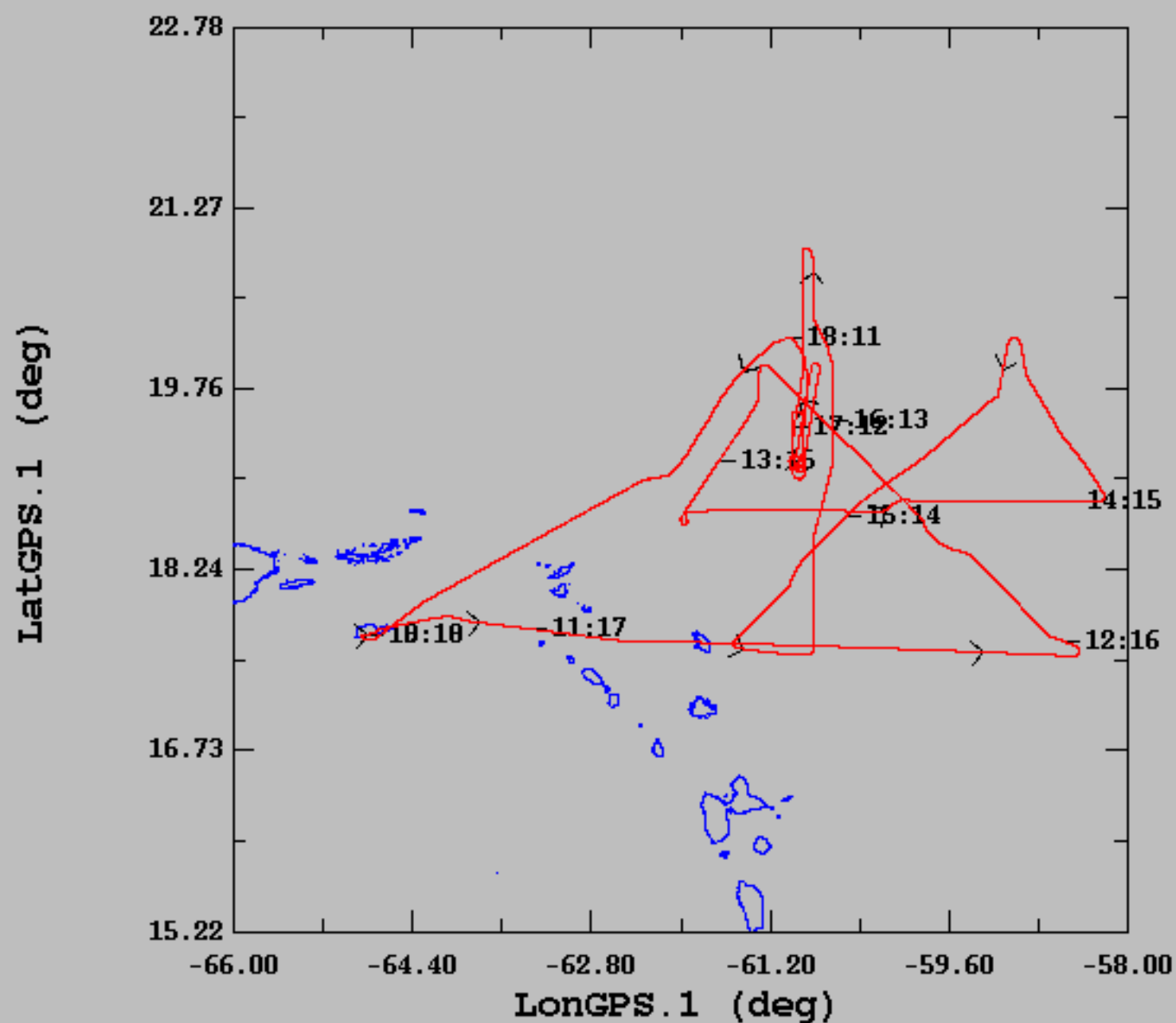
FF →

Mid-ent = HRO

Center NWS

RMW NESDIS N NWS or HRO

2019-09-20, 10:18:23-19:10:52



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	18.76	0.88	17.52	20.93
LonGPS.1 (deg), 1 s/sec	-61.22	1.72	-64.84	-58.20