

N42RF ERROR SUMMARY
20220924H1

Flight ID: 20220924H1

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/2022/MET/20220924H1

Local Met Data	Takeoff TNCA (0847Z)	Landing TNCA (0000Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.28765
AttackAngleSlope		6.08306
SlipAngleIntercept		0.22
SlipAngleSlope		6.59178
AttackAngleIntercept2		2.06219
AttackAngleSlope2		5.99068
SlipAngleIntercept2		0.125
SlipAngleSlope2		6.9873

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	15	15	15
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Kalen/Holmes
Phone #: 8635003962

ACAT-4 Version = 7.4

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20220924H1	FLT #:		AC:	Abitbol	Scientists:	Pressure		Dropsondes		
From:	TNCA	ETD:	0900Z	CP(s):	Copare	Rogers	A/C Takeoff		Good	Bad	Sent
To:	TNCA	ETA:	1700Z		Wood	Zhang			15	0	15
Block Time		Flight Time		NAV:	Miller		ASOS Takeoff		BTs		
In:	1403Z	Land:	1400Z	FE(s):	Stokes				A/C Land		Good
Out:	0843Z	T/O:	0847Z	FD(s):	Holmes	ASOS Land		0			0
Total:	5.3	Total:	5.2	SSA:	McAlister			Visitors:	Storm Number ID:		
				AVAPS:	Dykeman	(ie: AL072012)					
Sponsoring Org:	NWS/EMC			SEB:			TCPOD/WSPOD Mission				
Program:	PRX						(ie: NOAA2 2418A SANDY)				
Purpose:	TDR						NOAA2 0309A IAN				
				MX:		OBSERVATIONS					
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH				X			1	10	1042Z	1006mb	
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

Overall Assessment	Minor instrument issue(s) - minimal mission impact.
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Flight ID:	20220924H1
Flight Director(s):	Holmes/Kalen
Mission:	Tasked/Operational
UWZ.d mean:	0.12

Pressure Comparison		
	T/O	Land
Aircraft	1007.5	
Tower	1010.2 (TNCA)	1010.8 (TNCA)

	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	X PQM.1 ✓ PQM.2 ✓ PQM.3 ✓ PQM.4	✓ PSM.1 ✓ PSM.2 ✓ PTM.1	✓ PDALPHAref ✓ 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 <input type="checkbox"/> PitchI.3	✓ PitchRatel.1 ✓ PitchRatel.2 <input type="checkbox"/> PitchRatel.3	✓ RollI.1 ✓ RollI.2 <input type="checkbox"/> RollI.3	✓ RollRatel.1 ✓ RollRatel.2 <input type="checkbox"/> RollRatel.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 <input type="checkbox"/> TTM.3	✓ TDM.1 ✓ TDM.2 <input type="checkbox"/> TDM.3	✓ TRadD.1 ✓ TRadS.1 <input type="checkbox"/> 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)	X

NOTES:
<p>PDALPHA.1 and PDALPHA.2 differ by about 10 mb.</p> <p>PDBETA.1 and PDBETA.2 differ by about 15 mb.</p> <p>PQM.1 is about 15 mb less than other PQM sensors throughout flight.</p> <p>TDM.1 more sensitive than TDM.2.</p>

AVAPS Drop Log

Project: Hurricane 2012

Mission: TS 1an

Flight ID: 2022092411

Take Off: 0846Z

Landing: 1400

Flt Dir: @ Kalen

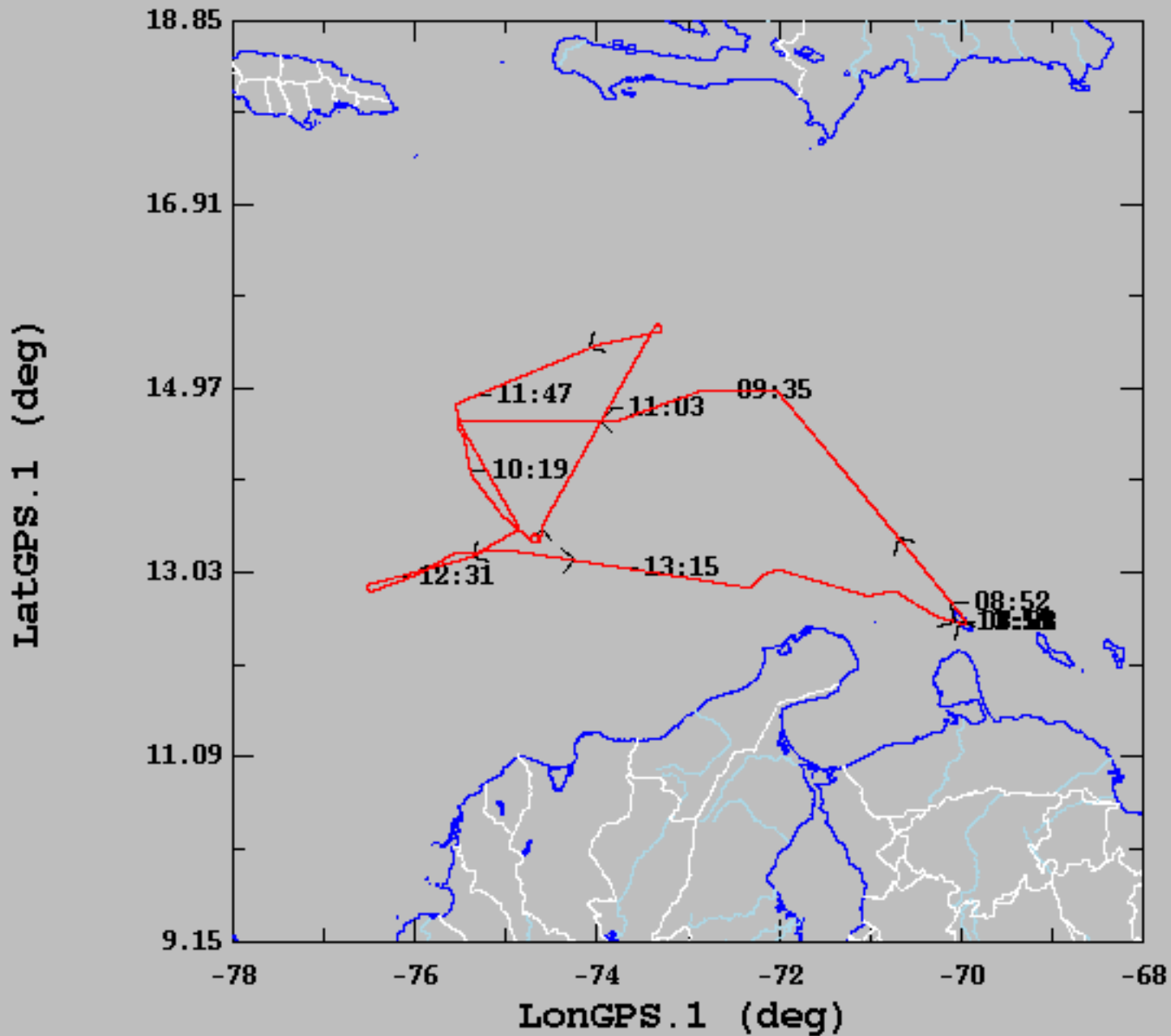
Launcher S/N: _____

P1 IP
 P1 MPI
 P1 CP
 P1 MP01
 P1 MP02
 P1 EP
 P2 IP
 P2 CP
 P2 MP01
 P2 EP
 P3 IP
 P3 MPI
 P3 CP
 P3 MP01
 P3 EP

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	212340676	1	-.2	0927	BRD	EMC		Y
2	213520909	2	-.5	0936	BRD	EMC		Y
3	212410883	3	-.5	0948	BRD	EMC		Y
4	213620642	4	-.3	0959	BRD	EMC	late winds	N
5	213550847	1	-.6	1000	BRD	EMC		Y
6	212730524	2	-.9	1011	BRD	EMC		Y
7	214141506	3	-.3	1033	BRD	EMC		Y
8	213550948	4	-.7	1041	BRD	EMC		Y
9	213620672	1	-.5	1055	BRD	EMC		Y
10	212720410	3	-.2	1121	BRD	EMC		Y
11	212650786	2	-.5	1150	BRD	EMC		Y
12	212710499	4	-.4	1159	BRD	EMC		Y
13	203240791	1	-1.0	1212	BRD	EMC		Y
14	212430886	2	-.4	1225	BRD	EMC		Y
15	212710090	3	-.4	1235	BRD	EMC		Y
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14/15

09/24/2022, 07:24:17-13:59:11



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	13.62	0.97	12.49	15.64
— LonGPS.1 (deg), 1 s/sec	-72.98	2.17	-76.51	-69.94