

N42RF ERROR SUMMARY
20220626H1

Flight ID: 20220626H1

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/2022/MET/20220626H1

Local Met Data	Takeoff KLAL (1505Z)	Landing TBPB (0000Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.305
AttackAngleSlope		6.07576
SlipAngleIntercept		0.235
SlipAngleSlope		7.01112
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.

PSM.1 trending a few mb high
PQM.1 becomes inop/unrepresentative at 16:26
PQM.4 and PTM.1 unrepresentative between 16:26 - 18:44
TDM.1 reading low with large oscillations
TDM.3 inop
Humidities have sporadic large anomalies
No acft landing data

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	0	0	0
Test sondes	0	0	0
AXBTs	2	1	1
AXCPs	0	0	0

AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Holmes / Kalen
Phone #: 863-500-3962

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:	20220626H1	FLT #:		AC:	Abitol	Scientists:		Pressure		Dropsondes		
From:	KLAL	ETD:	1100	CP(s):	Copare	Zawislak		A/C Takeoff		Good	Bad	Sent
To:	TBPB	ETA:	1600		Rannenberg					0	0	0
Block Time		Flight Time		NAV:	Hough / Urato			ASOS Takeoff		BTs		
In:	20:15	Land:	20:08	FE(s):	Darby			A/C Land		Good	Bad	Sent
Out:	14:53	T/O:	15:06	FD(s):	Stokes / Gee					1	1	1
Total:	5.4	Total:	5.0	SSA:	McAlister	Visitors:		ASOS Land				
Sponsoring Org:	HRD			AVAPS:	Hartberger			Storm Number ID:		N/A		
Program:	PRX			SEB:	Lundry			(ie: AL072012)				
Purpose:	REPO to TBPB			SEB:	Kregelka			TCPOD/WSPOD Mission		NOAA2 WXWXA TRAIN		
				MX:	Olney			(ie: NOAA2 2418A SANDY)				
					Decker			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:	20220626H1
Flight Director(s)	Holmes / Kalen
UWZ.d mean:	0.15

Pressure Comparison		
	T/O	Land
Aircraft	1012.8	--
Tower	1013.0	1006.0

	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	✓ PitchRateI.1 ✓ PitchRateI.2 ☐ PitchRateI.3	✓ RolLI.1 ✓ RolLI.2 ☐ RolLI.3	✓ RollRateI.1 ✓ RollRateI.2 ☐ RollRateI.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

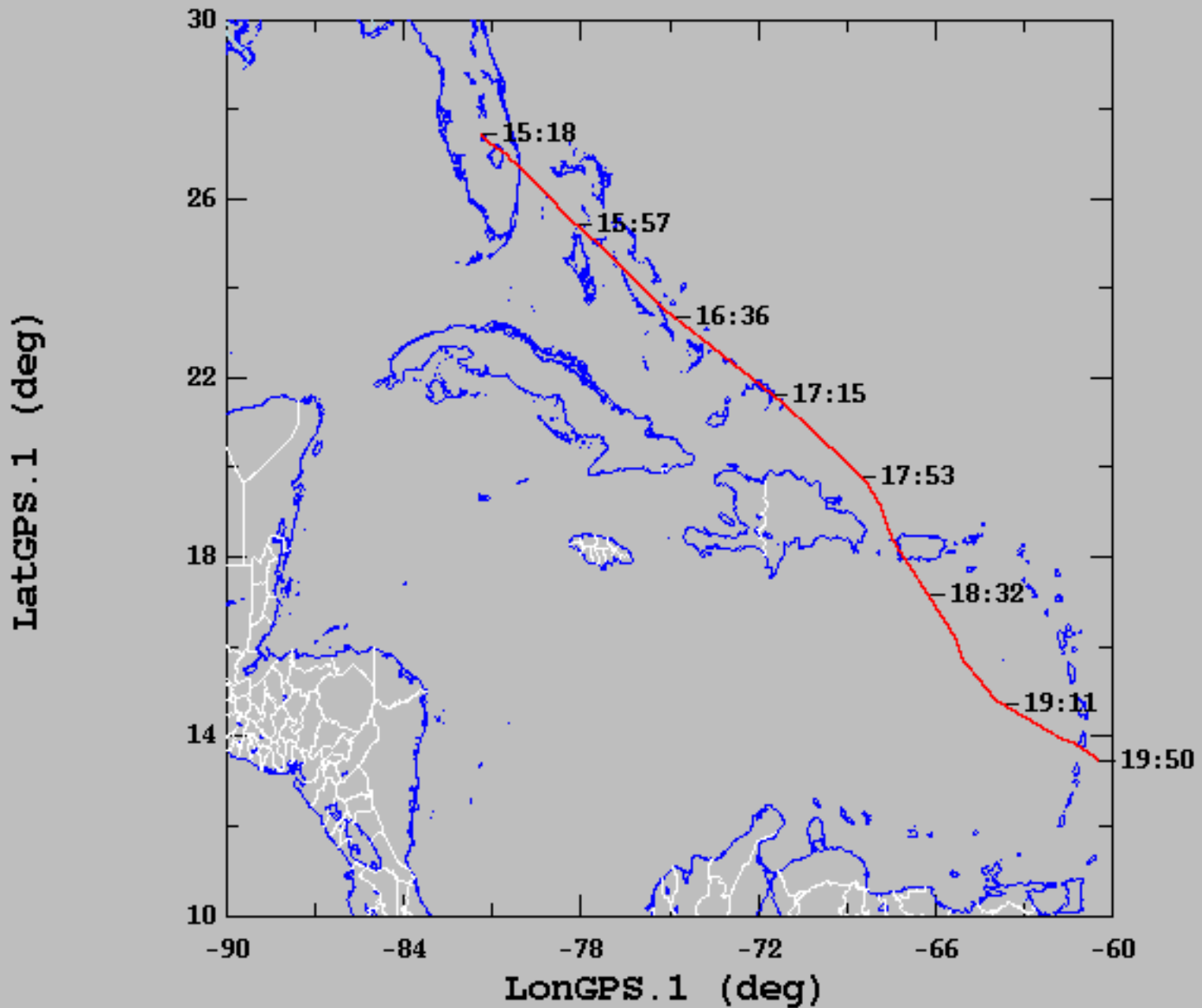
FLID_Mission_Documents.pdf:
✓ Error Summary
✓ Crew Manifest
✓ QC Checklist
☐ Dropwindsonde Log(s) - AVAPS and FD if completed
✓ Flight Track
✓ Miscellaneous FD Notes

QC Key	
Not checked	☐
Valid	✓
Errors (note)	✗

NOTES:

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2022-06-26, 15:18:44-19:50:12



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	20.35	4.20	13.46	27.42
— LongGPS.1 (deg), 1 s/sec	-70.53	5.91	-81.37	-60.41