

N42RF ERROR SUMMARY
20200218H1

Flight ID: 20200218H1

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/20200218H1

Local Met Data	Takeoff EINN (0747Z)	Landing CYHZ (1630Z)
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.

Transit flight to CYHZ from EINN, Ocean Winds Winter complete. Data gaps beginning ~1600Z lead to significant error and gaps in calculated and derived parameters, primarily affecting descent and landing phases of flight. PDAlpha.2 and PDBeta.2 inoperative. PQM.1 and PQM.4 inoperative. Pitch.3 and Roll.3 unavailable. TTM.3 unavailable. Multiple errors noted on TDM.2. TDM.3 unavailable. TRadU.1 unavailable.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dro sondes	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: Carpenter / Holmes
Phone #: 863-500-3901

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:	20200218H1	FLT #:	20-35	AC:	Abitbol	Scientists:	Pressure		Dropsondes		
From:	EINN	ETD:	08:00Z	CP(s):	Doremus	Chang, Paul	A/C Takeoff	1013.0	Good	Bad	Sent
To:	CYHZ	ETA:	16:00Z		Rannenberg	Jelenak, Zorana	ASOS Takeoff	EINN 0800Z 1011.3 mb	0	0	0
Block Time		Flight Time		NAV:	Richards/B.		A/C Land	1017.2	BTs		
In:	16:38	Land:	16:31	FE(s):	Sanchez		ASOS Land	CYHZ 1700Z 1014.9 mb	Good	Bad	Sent
Out:	7:37	T/O:	7:47	FD(s):	Heystek				0	0	0
Total:	9.02	Total:	8.73	SSA:	Carpenter	Visitors:					
Sponsoring Org:		NESDIS			AVAPS:	Mascaro	Storm Number ID:		N/A		
Program:		PED			SEB:	McAlister	(ie: AL072012)				
Purpose:		Transit to CYHZ. End of OWW.			MX:	Richards/T.	TCPOD/WSPOD Mission		NOAA2 WXWXA TRAIN		
						Carrion	(ie: NOAA2 2418A SANDY)				
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:	20200218H1
Flight Director(s):	Carpenter / Holmes
UWZ.d mean:	-0.08

Pressure Comparison		
	T/O	Land
Aircraft	1013.0	1017.2
Tower	EINN 0800Z 1011.3 mb	CYHZ 1700Z 1014.9 mb

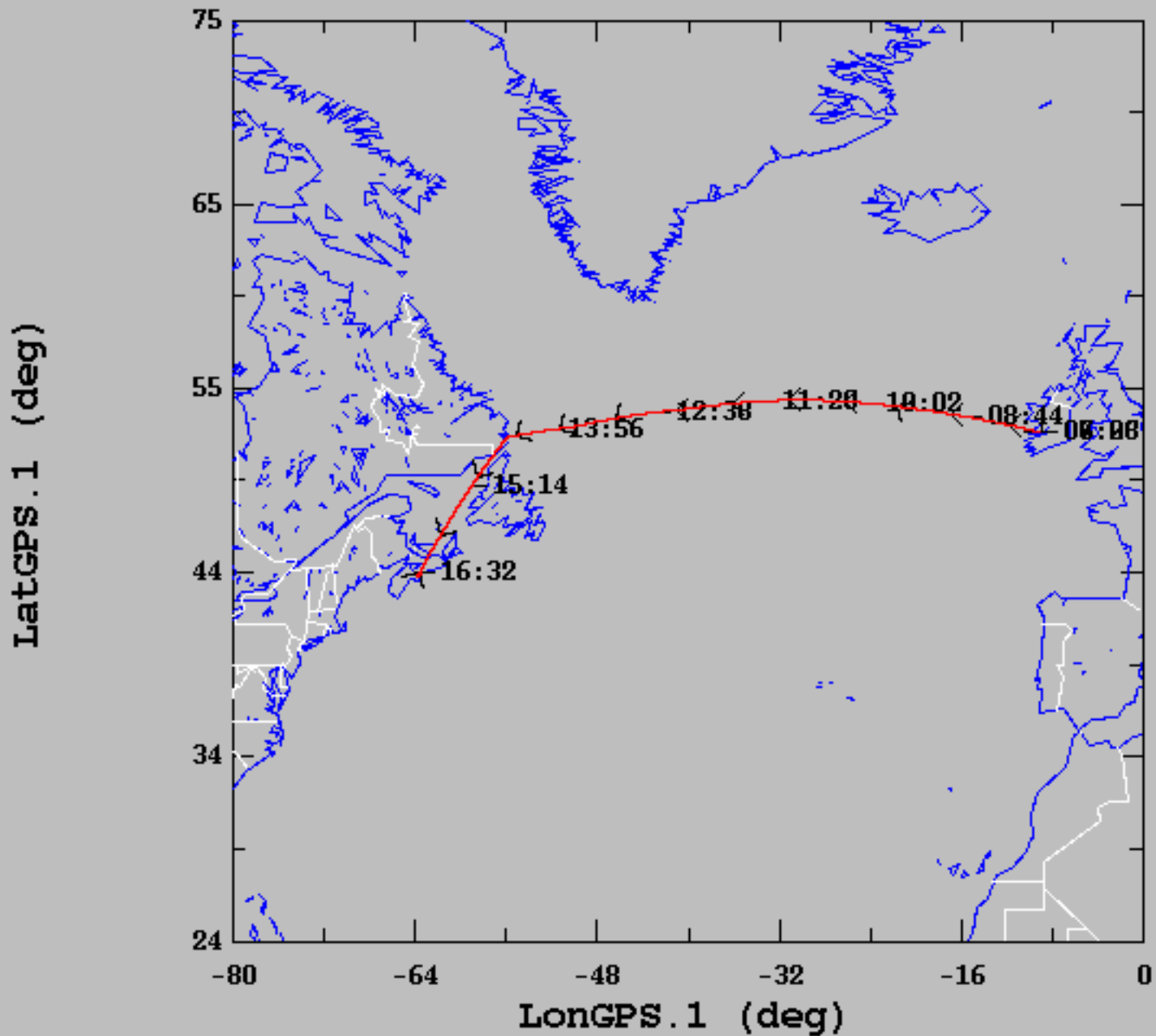
	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✓ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✓ AccAYI-GPS.2	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI-GPS.1 ✓ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✓ AccZfilter-GPS.2	✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3 ✓ 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 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 X 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
X	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:
Data gaps beginning ~1600Z lead to significant error in calculated and derived variables, primarily affecting descent and landing phase of flight.
PDAIpha.2 and PDBeta.2 inoperative.
PQM.1 and PQM.4 inoperative.
Pitch.3 and Roll.3 unavailable.
TTM.3 unavailable.
Multiple errors noted on TDM.2 and TDM.3 unavailable.
TRadU.1 unavailable.

02/18/2020, 06:08:04-16:32:31



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	52.54	2.40	44.66	54.50
— LongGPS.1 (deg), 1 s/sec	-34.11	18.87	-63.66	-8.91