

N43RF ERROR SUMMARY
2023082111

Flight ID: 2023082111

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/2023/MET/2023082111

Local Met Data	Takeoff TNCA (1705Z)	Landing TNCA (0000Z)
Dynamic Corrections		Yes
AttackAngleIntercept		0.050058
AttackAngleSlope		5.32015
SlipAngleIntercept	0.165	
SlipAngleSlope		6.66754

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.

I.3 for Pitch and Roll is not operational.

TRadU.1 has erroneous data throughout the flight and should not be used.

PDALPHAref, PDBETAref, PQALPHAref, PQBETAref, and DPJ_WSZ are not provided since _AC file is not produced; all other "C" file parameters checked are from the _A file.

TTM.3 and TDM.3 inoperable

TD.c and TDM.2 have erroneous data throughout the flight and should not be used; please use TTM.1 as the primary dewpoint temperature reference.

There is a ~40mb offset between PDAAlpha.1 and PDAAlpha.2

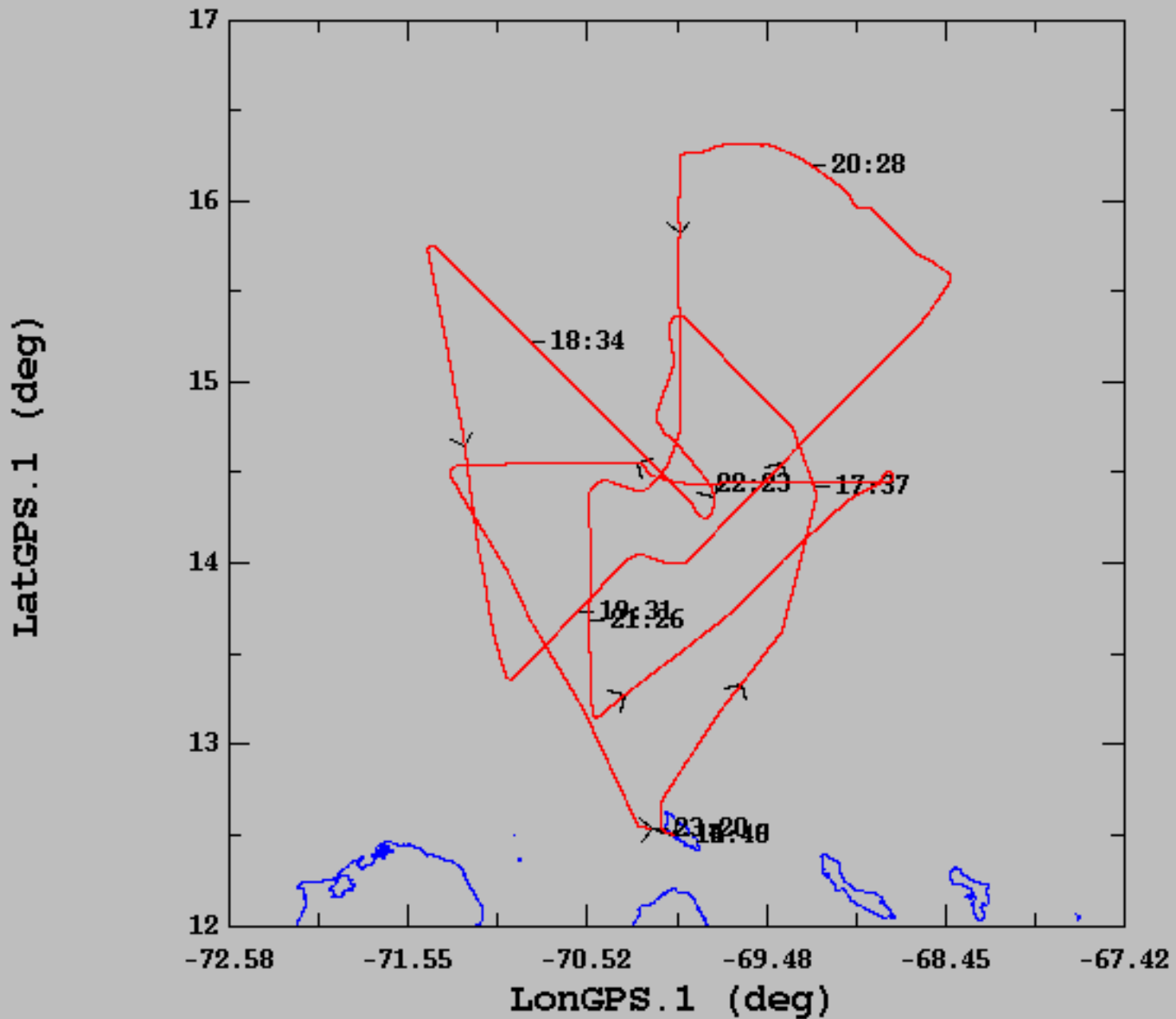
Expendable Type	# deployed	# good	# transmitted
Dropsondes	14	14	14
Test sondes	0	0	0
AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Kalen

Phone #: 8635003962

ACAT-4 Version = 7.4

08/21/2023, 14:46:12-23:20:19



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	13.92	1.14	12.50	16.31
LonGPS.1 (deg), 1 s/sec	-70.06	0.63	-71.43	-68.41

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - minimal mission impact.
--------------------	---

Flight ID:	2023082111
Flight Director(s):	KALEN / PARRISH / TIMMERS
Mission:	Tasked/Operational
UWZ.d mean:	-0.32

Pressure Comparison		
	T/O	Land
Aircraft	1005.32 mb	N/A
Tower	1006 mb	1005 mb

	Raw 1Hz Mean File Parameters				C File Parameters	
<input type="checkbox"/> Accelerometer	<input checked="" type="checkbox"/> AccAXI.1 <input checked="" type="checkbox"/> AccAXI.2 <input checked="" type="checkbox"/> AccAXI-GPS.1 <input checked="" type="checkbox"/> AccAXI-GPS.2	<input checked="" type="checkbox"/> AccAYI.1 <input checked="" type="checkbox"/> AccAYI.2 <input checked="" type="checkbox"/> AccAYI-GPS.1 <input checked="" type="checkbox"/> AccAYI-GPS.2	<input checked="" type="checkbox"/> AccAZI.1 <input checked="" type="checkbox"/> AccAZI.2 <input checked="" type="checkbox"/> AccAZI-GPS.1 <input checked="" type="checkbox"/> AccAZI-GPS.2	<input checked="" type="checkbox"/> AccZfilter-GPS.1 <input checked="" type="checkbox"/> AccZfilter-GPS.2	<input checked="" type="checkbox"/> AccZref	
<input type="checkbox"/> Altitude	<input checked="" type="checkbox"/> AltGPS.1 <input checked="" type="checkbox"/> AltGPS.2 <input checked="" type="checkbox"/> AltGPS.3 <input checked="" type="checkbox"/> AltGPS.4	<input checked="" type="checkbox"/> AltI-GPS.1 <input checked="" type="checkbox"/> AltI-GPS.2	<input checked="" type="checkbox"/> AltPaADDU.1 <input checked="" type="checkbox"/> AltBCADDU.1	<input checked="" type="checkbox"/> AltRA.1 <input checked="" type="checkbox"/> AltRA.2	<input checked="" type="checkbox"/> ALTref <input checked="" type="checkbox"/> ALTPA.d <input checked="" type="checkbox"/> ALTGA.d	<input checked="" type="checkbox"/> AltRA1.c <input checked="" type="checkbox"/> AltRA2.c
<input type="checkbox"/> Ground Speed	<input checked="" type="checkbox"/> GsXI-GPS.1 <input checked="" type="checkbox"/> GsXI-GPS.2	<input checked="" type="checkbox"/> GsYI-GPS.1 <input checked="" type="checkbox"/> GsYI-GPS.2	<input checked="" type="checkbox"/> GsZI-GPS.1 <input checked="" type="checkbox"/> GsZI-GPS.2			
<input type="checkbox"/> Lat / Lon	<input checked="" type="checkbox"/> LatGPS.1 <input checked="" type="checkbox"/> LatGPS.2 <input checked="" type="checkbox"/> LatGPS.3 <input checked="" type="checkbox"/> LatGPS.4	<input checked="" type="checkbox"/> LatI-GPS.1 <input checked="" type="checkbox"/> LatI-GPS.2	<input checked="" type="checkbox"/> LonGPS.1 <input checked="" type="checkbox"/> LonGPS.2 <input checked="" type="checkbox"/> LonGPS.3 <input checked="" type="checkbox"/> LonGPS.4	<input checked="" type="checkbox"/> LonI-GPS.1 <input checked="" type="checkbox"/> LonI-GPS.2	<input checked="" type="checkbox"/> LATref <input checked="" type="checkbox"/> LONref	
<input type="checkbox"/> Pressure	<input checked="" type="checkbox"/> PDALPHA.1 <input checked="" type="checkbox"/> PDALPHA.2 <input checked="" type="checkbox"/> PDBETA.1 <input checked="" type="checkbox"/> PDBETA.2	<input checked="" type="checkbox"/> PQALPHA.1 <input checked="" type="checkbox"/> PQBETA.1	<input checked="" type="checkbox"/> PQM.1 <input checked="" type="checkbox"/> PQM.2 <input checked="" type="checkbox"/> PQM.3 <input checked="" type="checkbox"/> PQM.4	<input checked="" type="checkbox"/> PSM.1 <input checked="" type="checkbox"/> PSM.2 <input checked="" type="checkbox"/> PTM.1	<input checked="" type="checkbox"/> PDLAPHaref <input checked="" type="checkbox"/> PDBETAref <input checked="" type="checkbox"/> PQALPHaref <input checked="" type="checkbox"/> PQBETAref	<input checked="" type="checkbox"/> PQMref <input checked="" type="checkbox"/> PQ.c <input checked="" type="checkbox"/> PSMref <input checked="" type="checkbox"/> PS.c
<input type="checkbox"/> Air Speed	<input checked="" type="checkbox"/> CasADDU.1	<input checked="" type="checkbox"/> TasADDU.1	<input checked="" type="checkbox"/> IasADDU.1	<input checked="" type="checkbox"/> IAS.d <input checked="" type="checkbox"/> TAS.d		
<input type="checkbox"/> Pitch / Roll	<input checked="" type="checkbox"/> PitchI.1 <input checked="" type="checkbox"/> PitchI.2 <input checked="" type="checkbox"/> PitchI.3	<input checked="" type="checkbox"/> PitchRateI.1 <input checked="" type="checkbox"/> PitchRateI.2 <input checked="" type="checkbox"/> PitchRateI.3	<input checked="" type="checkbox"/> RollI.1 <input checked="" type="checkbox"/> RollI.2 <input checked="" type="checkbox"/> RollI.3	<input checked="" type="checkbox"/> RollRateI.1 <input checked="" type="checkbox"/> RollRateI.2 <input checked="" type="checkbox"/> RollRateI.3	<input checked="" type="checkbox"/> PITCHref <input checked="" type="checkbox"/> ROLLref	
<input type="checkbox"/> Temp / Dewpt	<input checked="" type="checkbox"/> TTM.1 <input checked="" type="checkbox"/> TTM.2 <input checked="" type="checkbox"/> TTM.3	<input checked="" type="checkbox"/> TDM.1 <input checked="" type="checkbox"/> TDM.2 <input checked="" type="checkbox"/> TDM.3	<input checked="" type="checkbox"/> TRadD.1 <input checked="" type="checkbox"/> TRadS.1 <input checked="" type="checkbox"/> TRadU.1	<input checked="" type="checkbox"/> TD.c <input checked="" type="checkbox"/> TDMref <input checked="" type="checkbox"/> TTMref <input checked="" type="checkbox"/> TA.d		
<input type="checkbox"/> Misc. (Must check)					<input checked="" type="checkbox"/> UWZ.d <input checked="" type="checkbox"/> DPJ_WSZ <input checked="" type="checkbox"/> HUM	<input type="checkbox"/> WS.d <input type="checkbox"/> WD.d

FLID_Mission_Documents.pdf:
<input checked="" type="checkbox"/> Error Summary
<input checked="" type="checkbox"/> Crew Manifest
<input checked="" type="checkbox"/> QC Checklist
<input checked="" type="checkbox"/> Dropwindsonde Log(s) - AVAPS and FD if completed
<input checked="" type="checkbox"/> Flight Track
<input type="checkbox"/> Miscellaneous FD Notes

QC Key	
Not checked	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/>

NOTES:

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N43RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION					
FLT ID:	2023082111	FLT #:		AC:	COPARE	Scientists:	Pressure		Drosondes			
From:	TNCA	ETD:	1630Z	CP(s):	WOOD		A/C Takeoff	1005	Good	Bad	Sent	
To:	TNCA	ETA:	0030Z		PALMER		ASOS Takeoff	1006	14	0	14	
Block Time		Flight Time		NAV:	MILLER / SCHAEFER		A/C Land	N/A	BTs			
In:	23:29	Land:	23:23	FE(s):	DARBY		ASOS Land	1005	0	0	0	
Out:	17:00	T/O:	17:05	FD(s):	TYSON				0	0	0	
Total:	6.5	Total:	6.3		SSA:							RICHARDS
Sponsoring Org:	NHC			SEB:			Storm Number ID:		AL082023			
Program:	PRX						(ie: AL072012)					
Purpose:	HX OPS TS FRANKLIN						TCPOD/WSPOD Mission	0208A FRANKLIN				
				MX:			OBSERVATIONS					
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP		
VOLCANIC ASH				X			1	3	1814Z	1004MB		
SCIENCE MISSION WITHIN BDRY LAYER			X				2					
LACK OF PRECIPITATION				X			3					
RELATIVE HUMIDITY ≥ 80%			X				4					
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								
							Pennies:					

*Highlighted items must be completed before departure.

Remarks:	

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20230821I1

ASPEN Operator/Flight Director(s): TIMMERS/PARRISH/KALEN

Mission ID: 0208A FRANKLIN

Storm Name/Track: TS FRANKLIN

PG 1 of 1

Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	1742 08	20221	4	14.7	-69.3	OVCST	1005.3	IP 150/30	1719	✓✓
2	2	1815 32	40689	5	14.3	-69.9	OVCST	1004.1	CTR1 110/18	1821	✓✓
3	3						VDM				
4	4	1845 06	31076	6	15.7	-71.4	BKN	1005.7	EP 080/21	1851	✓✓
5	5	1923 56	70063	7	13.4	-70.9	BKN	1003.7	IP 155/11	1931	✓✓
6	6	1944 00	20355	8	14.0	-69.9	OVCST	1002.9	CTR2 160/25 (CLA REMOVED CTR NOTATION)	1951	✓✓
7	7	2014 22	10009	4	15.5	-68.4	OVCST	1006.3	EP 120/21	2023	✓✓
8	8	2039 40	40042	5	16.2	-70.0	OVCST	1005.5	IP 135/28	2049	✓✓
9	9	2112 50	31213	6	14.4	-70.4	OVCST	1002.9	CTR3 350/19	2120	✓✓
10	10	2204 09	40732	7	14.4	-68.8	OVCST	1006.9	IP 165/02	2110	✓✓
11	11	2214 44	50737	8	14.4	-69.3	OVCST	1004.7	120/28	2221	✓✓
12	12	2222 24	10038	4	14.4	-69.8	OVCST	1004.3	095/10	2228	✓✓
13	13 ^H	2228 07	50749	5	14.5	-70.1	UCST	1004.8	CTR4 055/13	2235	✓✓
14	14 ^S	2235 45	10437	6	14.6	-70.7	OVCST	1003.5	350/08	2249	✓✓
15	15 ^L	2243 10	10055	7	14.5	-71.2	OVCST	1003.9	040/11	2254	✓✓
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											

REC'D
08/13

COMMENTS: ASPEN Operator will ensure this form is delivered to the AOC Flight Director to be archived

16 Obs Xmitted 0 Obs Missed 14 # of sondes launched 0 # of bad sondes