

N42RF ERROR SUMMARY
20240208H1

Flight ID: 20240208H1

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/2024/MET/20240208H1

Local Met Data	Takeoff PANC (1805Z)	Landing PANC (0128Z)
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.

PQM.1 (wingtip) erroneous to inop for most of the flight; from ~2205 to ~2305, PQM.4 (radome) deviates significantly from PQM.2 and PQM.3 (possibly due to icing on the radome)
I.3 for Pitch and Roll is inop; TRadU.1 is inop; TTM.3 is inop
TDM.1 deviates from TDM.2 as much as 32C during transit, but generally consistent with TDM.2 on station; overall TDM.2 is the better behaving sensor and TDMref is set to TDM.2; TDM.3 is inop
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

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Drosondes	15	14	0

Test sondes	0	0	0
AXBTS	2	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Zawislak
Phone #: 305-707-4359

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:	20240208H1	FLT #:	FY24-	AC:	Copare	Scientists:	Pressure		Dropsondes		
From:	PANC	ETD:	0830L / 1730Z	CP(s):	Keith	Sapp, Joe	A/C Takeoff	1006.3	Good	Bad	Sent
To:	PANC	ETA:	1630L / 0130Z			Jelenak, Zorana			14	1	0
Block Time		Flight Time		NAV:	Miller		ASOS Takeoff	1004.9	BTs		
Out:	17:43	T/O:	18:05	FE(s):	Tyson		A/C Land	-	Good	Bad	Sent
					Wysinger				0	2	0
In:	1:32	Land:	1:28	FD(s):	Zawislak		ASOS Land	1000.9			
Total:	7.8	Total:	7.4	SSA:	McAlister	Visitors:					
Sponsoring Org:		NESDIS		AVAPS:	Richards	Rux, Virginia (NWS)	Storm Number ID:		N/A		
Program:		PED			Meier (NAV)	Smith, Brandon (NWS)	(ie: AL072012)				
Purpose:		OCEANWINDS07		SEB:	Dunford (NAV)		TCPD/WSPD Mission		NOAA2 WXWXC OCEANWINDS07		
							(ie: NOAA2 2418A SANDY)				
				MX:			OBSERVATIONS				
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH				X	1 Microswift released		1				
SCIENCE MISSION WITHIN BDY 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:	N/A			
						*Highlighted items must be completed before departure.					
Remarks:											

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - no mission impact.
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Flight ID:	20240208H1	Pressure Comparison		
Flight Director(s):	Zawislak		T/O	Land
Mission:	Non-tasked Science Collection/Research	Aircraft	1006.3	No measurement
UWZ.d mean:	-0.07	Tower	1004.9	1000.9

	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 ✓ PDALPHA.2 ✓ PDBETA.1 ✓ PDBETA.2	✓ PQALPHA.1 ✓ PQBETA.1	X PQM.1 ✓ PQM.2 ✓ PQM.3 X PQM.4	✓ PSM.1 ✓ PSM.2 ✓ PTM.1	X PDLAPHaref X PDBETAref X PQALPHaref X 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	✓ PitchRatel.1 ✓ PitchRatel.2 X PitchRatel.3	✓ RollI.1 ✓ RollI.2 X RollI.3	✓ RollRatel.1 ✓ RollRatel.2 X RollRatel.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 X TTM.3	X TDM.1 ✓ TDM.2 X TDM.3	✓ TRadD.1 ✓ TRadS.1 X TRadU.1		✓ TD.c ✓ TDMref	✓ TTMref ✓ TA.d
✓ Misc. (Must check)					✓ UWZ.d X 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)	X

NOTES:

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AVAPS Drop Log

Project: OWW 24

Mission: FLY #7

Flight ID: 2024020841

Take Off: _____

Landing: _____

Flt Dir: J. Z.

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	150854193	1	-1.1	2124	TR	T		✓
2	160745011	2	-0.7	2126				✓
3	150845019	3	-1.0	2129			F/F	-
4	151325191	4	-1.0	2132				✓
5	151325093	5	-1.9	2137				✓
6	150835044	6	-1.4	2142				✓
7	150835136	7	-1.6	2147				✓
8	150835135	8	-1.5	2154			F/F	-
9	150845231	1	-1.3	2156				✓
10	150545119	2	-1.7	2206				✓
11	151325180	3	-0.3	2223				✓
12	150845079	4	-1.3	2231			Super Comb. m/s RT	✓
13	150545117	5	-1.1	2238				✓
14	161635042	6	0.0	2248				✓
15	161635036	7	-0.5	2259				✓
16	161635037	8	0.0					
17								
18								
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AXBT Log

Mission FLY 7 Over 24

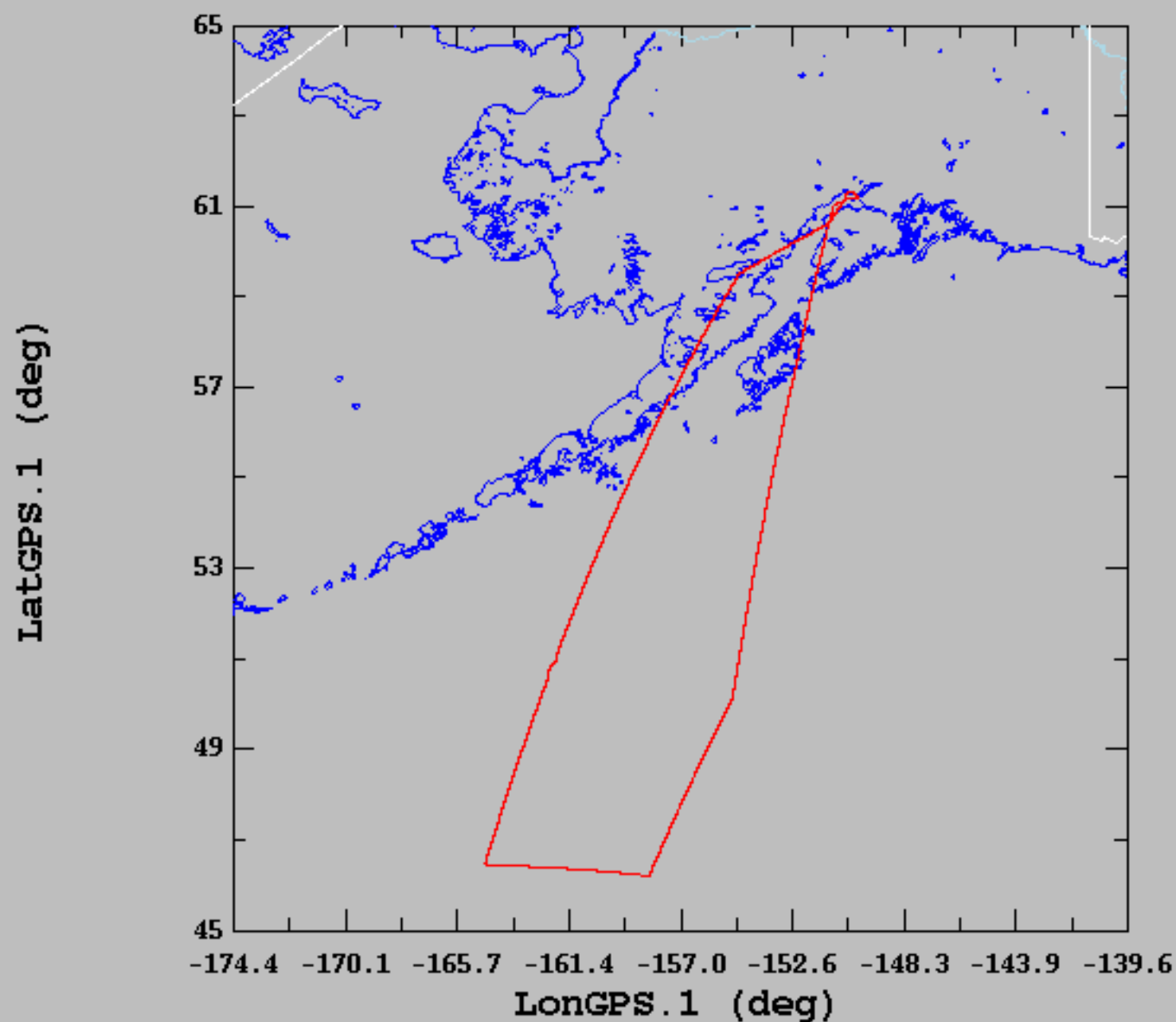
Takeoff Time

Flight ID 2024020841

Landing Time _____

[illegible]

02/08/2024, 16:19:44-25:28:29



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	54.54	5.58	46.20	61.32
LonGPS.1 (deg), 1 s/sec	-155.88	4.78	-164.59	-149.98