

N43RF ERROR SUMMARY
20230301I1

Flight ID: 20230301I1

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.1
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/20230301I1

Local Met Data	Takeoff PANC (1705Z)	Landing PANC (1604Z)
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.

All GPS.3 and GPS.4 parameters unrepresentative
LATref and LONref are not representative. Please use Lat/LonGPS.1 or .2 for analysis.

PSM.1 oscillates compared to PSM.2

PDALPHA, PQM.1, TTM.3 & TDM.3 unrepresentative

HUM_REL.d small gaps of ~2sec throughout; large spike at 00:19

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	7	6	0
Test sondes	0	0	0
AXBTs	1	1	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

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

ACAT-4 Version = 7.4

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	2023030111	FLT #:		AC:	Rannenberg	Scientists:	Pressure		Dropsondes		
From:	PANC	ETD:	1700Z	CP(s):	Keith	Chang	A/C Takeoff		Good	Bad	Sent
To:	PANC	ETA:	0100Z		Palmer	Jelenak			6	1	0
Block Time		Flight Time		NAV:	Miller	Roy	ASOS Takeoff		BTs		
Out:	0130Z	T/O:	0126Z	FE(s):	Darby		A/C Land		Good	Bad	Sent
					Tyson				1	0	0
In:	1656Z	Land:	1705Z	FD(s):	Carpenter		ASOS Land				
					Kalen						
Total:	8.6	Total:	8.4	SSA:	Richards	Visitors:	Storm Number ID:		N/A		
				AVAPS:	Waggoner	Kiedrowski	(ie: AL072012)				
Sponsoring Org:	NESDIS			SEB:	Kotz	Allen	TCPD/WSPD Mission		WXWXC OCEANWINDS03		
Program:	PED				Mascaro		(ie: NOAA2 2418A SANDY)				
Purpose:	OCEANWINDS03				MX:			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:	20230301I1
Flight Director(s)	Carpenter / Kalen
UWZ.d mean:	-0.12

Pressure Comparison		
	T/O	Land
Aircraft	972.3	-
Tower	971.5	970.2

	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

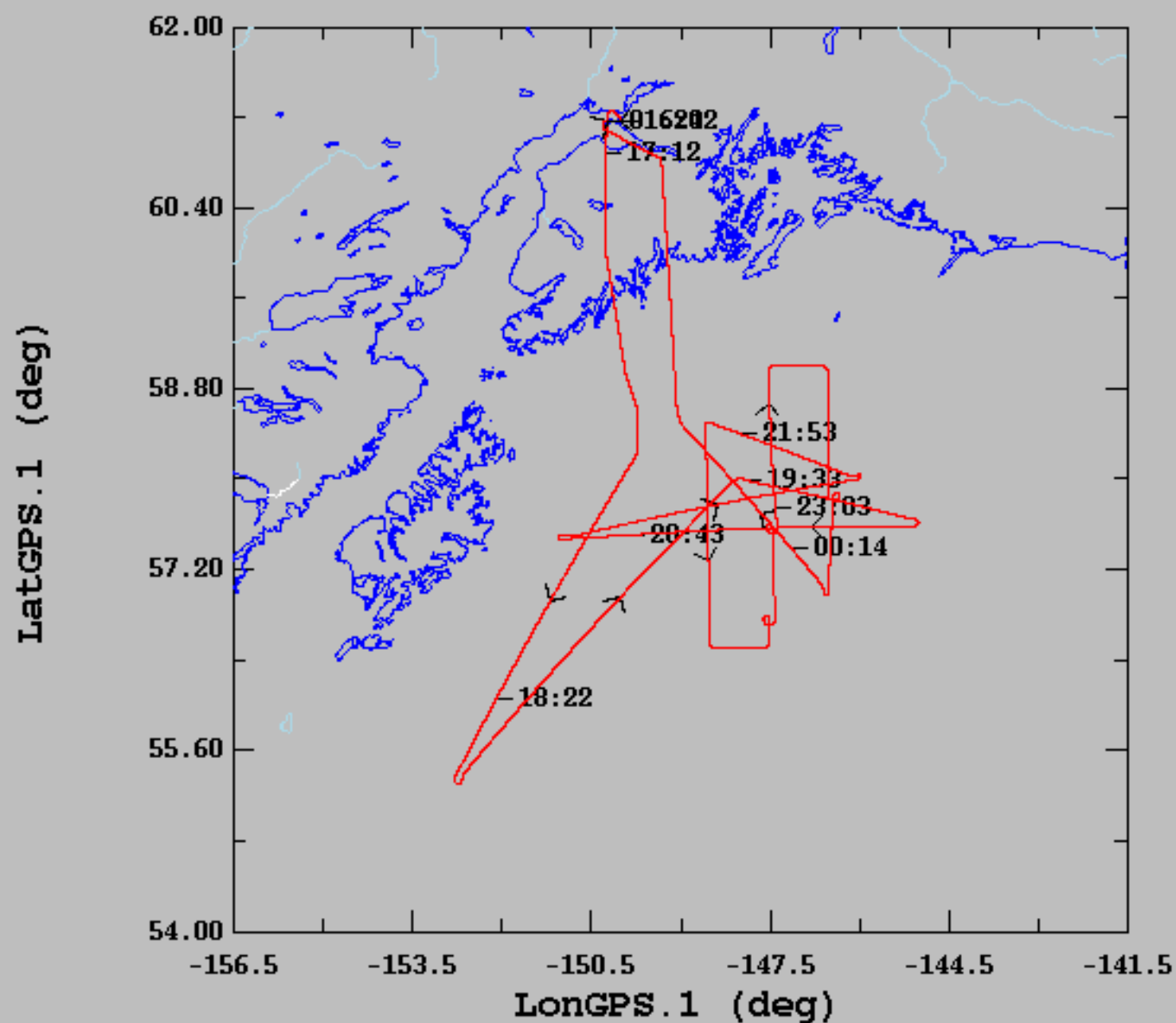
FLID_Mission_Documents.pdf:
✓ Error Summary
✓ Crew Manifest
✓ QC Checklist
□ Dropwindsonde Log(s) - AVAPS and FD if completed
✓ Flight Track
✓ Miscellaneous FD Notes

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

NOTES:

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03/01/2023, 16:02:22-25:24:17



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	58.23	1.52	55.31	61.25
LongGPS.1 (deg), 1 s/sec	-148.81	1.74	-152.81	-144.96