

N43RF ERROR SUMMARY
20230302I1

Flight ID: 20230302I1

Sensor or System -----	Number or Name -----
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.4
Total Temperature Probe	TTM.1
Dewpoint Temp. Probe	TDM.2
Vertical Accelerometer	AccZfilterI-GPS.1
Altimeter	AltGPS.2
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/20230302I1

Local Met Data	Takeoff PANC (1703Z)	Landing KEGG (2056Z)
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 parameters not representative; ALTGA.d also effected
Multiple small 2 second gaps in majority of parameters
PSM.1 not representative
Lat and LonGPS.4 not representative
PQM.1 not representative
TDM.1 not representative
TMD.3 and TTM.3 inop

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	4	4	0
Test sondes	0	0	0
AXBTS	0	0	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:	2023030211	FLT #:		AC:	Rannenberg	Scientists:	Pressure		Dropsondes		
From:	PANC	ETD:	1700Z	CP(s):	Keith	Chang	A/C Takeoff		Good	Bad	Sent
To:	PANC	ETA:	2100Z		Palmer	Jelenak			4	0	0
Block Time		Flight Time		NAV:	Miller	Roy	ASOS Takeoff				
Out:	2103Z	T/O:	2056Z	FE(s):	Darby		A/C Land		Good	Bad	Sent
					Tyson				0	0	0
In:	1653Z	Land:	1704Z	FD(s):	Carpenter		ASOS Land				
Total:	4.2	Total:	3.9	SSA:	Richards	Visitors:	Storm Number ID:		N/A		
				AVAPS:	Waggoner		(ie: AL072012)				
Sponsoring Org:	NESDIS			SEB:	Kotz		TCPD/WSPD Mission		WXWXC OCEANWINDS04		
Program:	PED				Mascaro		(ie: NOAA2 2418A SANDY)				
Purpose:	OCEANWINDS04			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:	20230302I1
Flight Director(s)	Carpenter / Kalen
UWZ.d mean:	-0.04

Pressure Comparison		
	T/O	Land
Aircraft	983.7	-
Tower	977.6	976.4

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

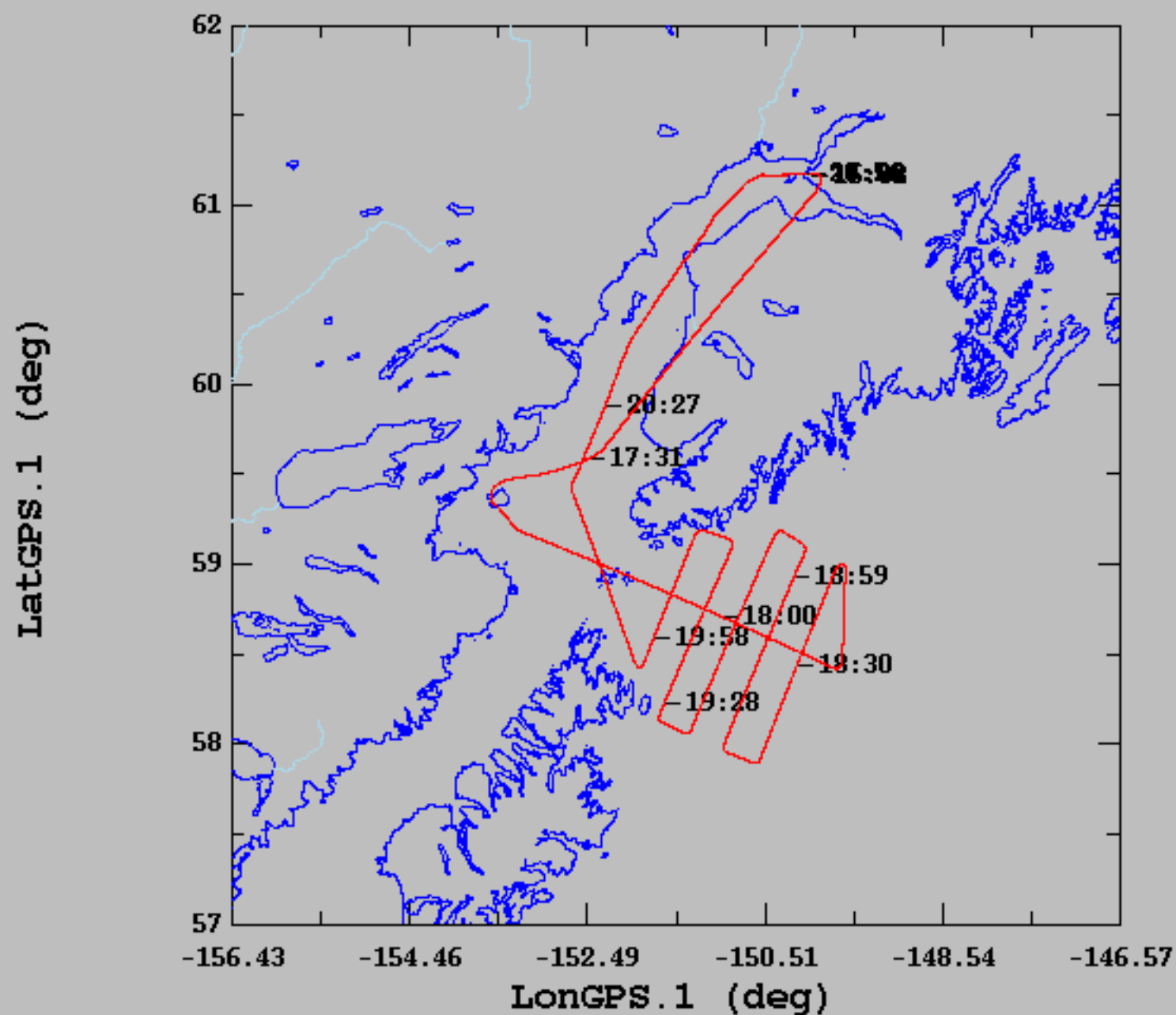
FLID_Mission_Documents.pdf:
✓ Error Summary
✓ Crew Manifest
✓ QC Checklist
✗ Dropwindsonde Log(s) - AVAPS and FD if completed
✓ Flight Track
✓ Miscellaneous FD Notes

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

NOTES:

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	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	59.86	1.17	57.90	61.17
LongGPS.1 (deg), 1 s/sec	-150.82	0.97	-153.55	-149.61