

N49RF ERROR SUMMARY
20220312N1

Flight ID: 20220312N1

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	AccZI.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/2022/MET/20220312N1

Local Met Data	Takeoff PHNL (2006Z)	Landing KLAL (0000Z)
Dynamic Corrections		Yes
AttackAngleIntercept		4.95911
AttackAngleSlope		5.43613
SlipAngleIntercept		1.06
SlipAngleSlope		6.97813
AttackAngleIntercept2		5.01255
AttackAngleSlope2		5.40932
SlipAngleIntercept2		0.72
SlipAngleSlope2		7.0494

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.

Flight level data encompasses entire transit from PHNL to KLAL
ALPHA and BETA sensors stop reporting data after stop at KPHX
.1 & .2 GPS parameters stair step
TDM.1 unrepresentative
Moisture quantities remain suspect
No aircraft landing data

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	4	4	4
Test sondes	0	0	0
AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0

UAS	0	0	0
-----	---	---	---

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

ACAT-4 Version = 7.4

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N49RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20220312N1	FLT #:		AC:	Nardi	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:	2000Z	CP(s):	de Triquet		A/C Takeoff		Good	Bad	Sent
To:	KPHX	ETA:	0200Z						4	0	4
Block Time		Flight Time		NAV:			ASOS Takeoff		BTs		
In:	2:03	Land:	2:00	FE(s):			A/C Land		Good	Bad	Sent
Out:	19:55	T/O:	20:06	FD(s):	Kalen		ASOS Land				
					Carpenter						
Total:	6.1	Total:	5.9	SSA:	Defeo	Visitors:					
Sponsoring Org:				AVAPS:	Patel		Storm Number ID:		N/A		
Program:							(ie: AL072012)				
Purpose:		Repo		SEB:			TCPD/WSPD Mission		NOAA9 11WSC IOP23		
							(ie: NOAA2 2418A SANDY)				
				MX:	Newnam		OBSERVATIONS				
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH				x			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:				
						*Highlighted items must be completed before departure.					
Remarks:											

G-IV QC Checklist

Flight ID:	20220312N1
Flight Director(s)	Kalen / Henning
UWZ.d mean:	0.14

Pressure Comparison		
	T/O	Land
Aircraft	1022.7	-
Tower	1021.0	1013.3

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

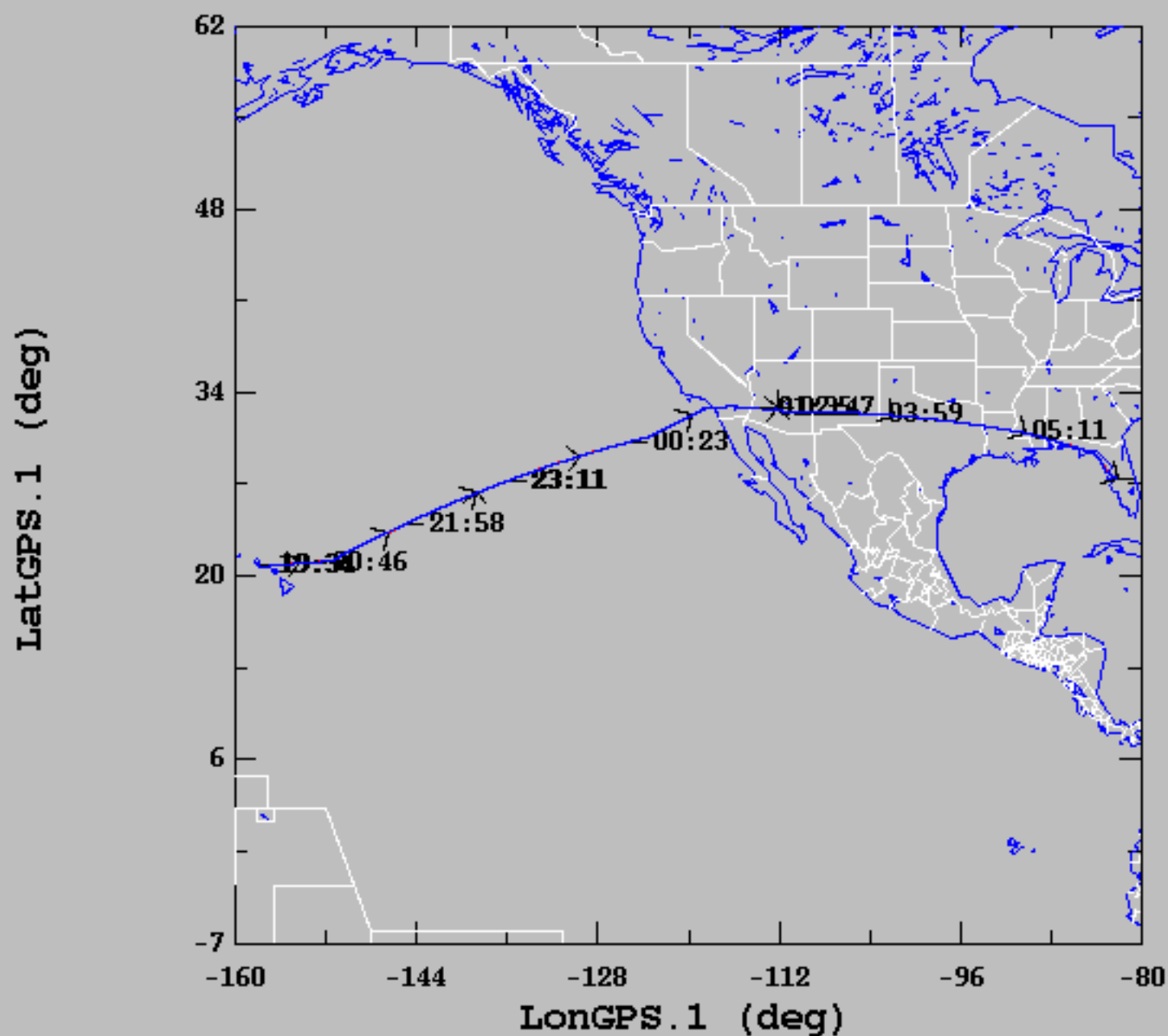
FLID_Mission_Documents.pdf:	
☒	Error Summary
☒	Crew Manifest
☒	QC Checklist
☐	Dropwindsonde Log(s) - AVAPS and FD if completed
☒	Flight Track
☒	Miscellaneous FD Notes

QC Key	
Not checked	☐
Valid	☒
Errors (note)	☒

NOTES:

Flight level data encompasses entire transit from PHNL to KLAL
 ALPHA and BETA sensors stop reporting data after stop at KPHX
 .1 & .2 GPS parameters stair step
 TDM.1 unrepresentative
 Moisture quantities remain suspect
 No aircraft landing data

2022-03-12, 19:34:39-30:23:58



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	29.10	4.34	21.11	33.51
LonGPS.1 (deg), 1 s/sec	-121.94	22.29	-157.95	-82.02
LatI.1 (deg), 1 s/sec	29.10	4.34	21.11	33.51
LonI.1 (deg), 1 s/sec	-121.93	22.30	-157.94	-81.99