

N49RF ERROR SUMMARY
20190525N2

Flight ID: 20190525N2

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	AccZI.2
Altimeter	AltGPS.2
INE Selection	2
Differential Attack Pressure Probe	PDALPHA.2
Differential Sideslip Pressure Probe	PDBETA.2
Dynamic Attack Pressure Probe	PQALPHA.2
Dynamic Sideslip Pressure Probe	PQBETA.2

Flight Directory acdata/2019/MET/20190525N2

Local Met Data	Takeoff KLGB (2058Z)	Landing PHNL (0206Z)
Dynamic Corrections		Yes
AttackAngleIntercept		3.97801
AttackAngleSlope		3.86172
SlipAngleIntercept		1.258
SlipAngleSlope		6.69941
AttackAngleIntercept2		5.04641
AttackAngleSlope2		5.41847
SlipAngleIntercept2		0.905
SlipAngleSlope2		6.78464

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.

Reposition flight to PHNL for GRAV-D project. 3 sondes released enroute for training purposes. Data missing between approximately 21:59 and 22:06 UTC. GPS.3 unavailable. TTM.2 unavailable. Wind data unreliable.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	0	0	0
Test sondes	3	3	3
AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0

UAS	0	0	0
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Flight Director: Carpenter / Henning

Phone #: 863-500-3901

ACAT-4 Version = 7.2.2

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center															
FLT ID:		20190525N2		From:		KLGB		To:		PHNL					
FLT #:				Blk In (Z):		2:11		Land (Z):		2:06					
ETD (Z):				Blk Out (Z):		20:50		T/O (Z):		20:59					
ETE:				Total Blk:		5.4		Total Flt:		5.1					
Spns Org:		NGS		Program:		PGR		Purpose:		Repo. for GRAVD					
AOC Flight Crew															
Aircraft Commander:				Mansour				SSA:				Defeo			
SIC:				Twining / Nardi				AVAPS:				Newnam			
Navigator:								Scientist:				Dahlberg			
Flight Eng:								Scientist:							
Flt Director:				Carpenter / Henning				Scientist:							
SEB:								Scientist:							
Crew Chief:				Rotteveel				Visitors:							
Pressure		A/C - Takeoff		Wx Station - Takeoff		A/C - Land		Wx Station - Land							
		1010.7		LGB 2100Z 1010.4		1016.2		PHNL 0205Z 1016.1							
AS REQUIRED BY ORM				YES	NO	REMARKS									
VOLCANIC ASH					X										
SCIENCE MISSION WITHIN BOUNDARY LAYER					X										
LACK OF PRECIPITATION				X											
RELATIVE HUMIDITY AT OR ABOVE 80%					X										
LARGE AIR-SEA TEMPERATURE GRADIENT					X										
HIGH SURFACE WINDS					X										
LONG FETCH AND/OR DURATION OF SFC WIND					X										
SEA SALT ACCRETION FORECAST					X										
SEA SALT ACCRETION OBSERVED					X										
Dropsondes		3		Good:		3		Bad:		0		Sent:		3	
AXBT		0		Good:		-		Bad:		-		Sent:		-	
List other data sources in Remarks section												VDM			
Remarks (Storm VDM Identifier, Mission ID, Fix Times)								Fix #		Ob Num		Fix Time / SLP			
Storm Number Identifier (VDM): (ie: AL072012)															
TCPOD/WSPOD Mission ID: (ie: NOAA2 2418A SANDY)															
Remarks: Sondes dropped for training.															

G-IV QC Checklist

Flight ID:	20190525N2
Flight Director(s)	Carpenter / Henning
UWZ.d mean:	-0.01 post-processing

Pressure Comparison		
	T/O	Land
Aircraft	1010.7	1016.2
Tower	LGB 2100Z 1010.4	PHNL 0205Z 1016.1

	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	X GsGPS.3		✓ GSZref	
	✓ GsXGPS.1	✓ GsYGPS.1	✓ GsZGPS.1				
	✓ GsXGPS.2	✓ GsYGPS.2	✓ GsZGPS.2				
	X GsXGPS.3	X GsYGPS.3	X GsZGPS.3				
✓ Lat / Lon	✓ LatGPS.1	✓ LatI.1	✓ LonGPS.1	✓ LonI.1		✓ LATref	
	✓ LatGPS.2	✓ LatI.2	✓ LonGPS.2	✓ LonI.2		✓ LONref	
	X LatGPS.3		X 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
	X 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
X	Miscellaneous FD Notes

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

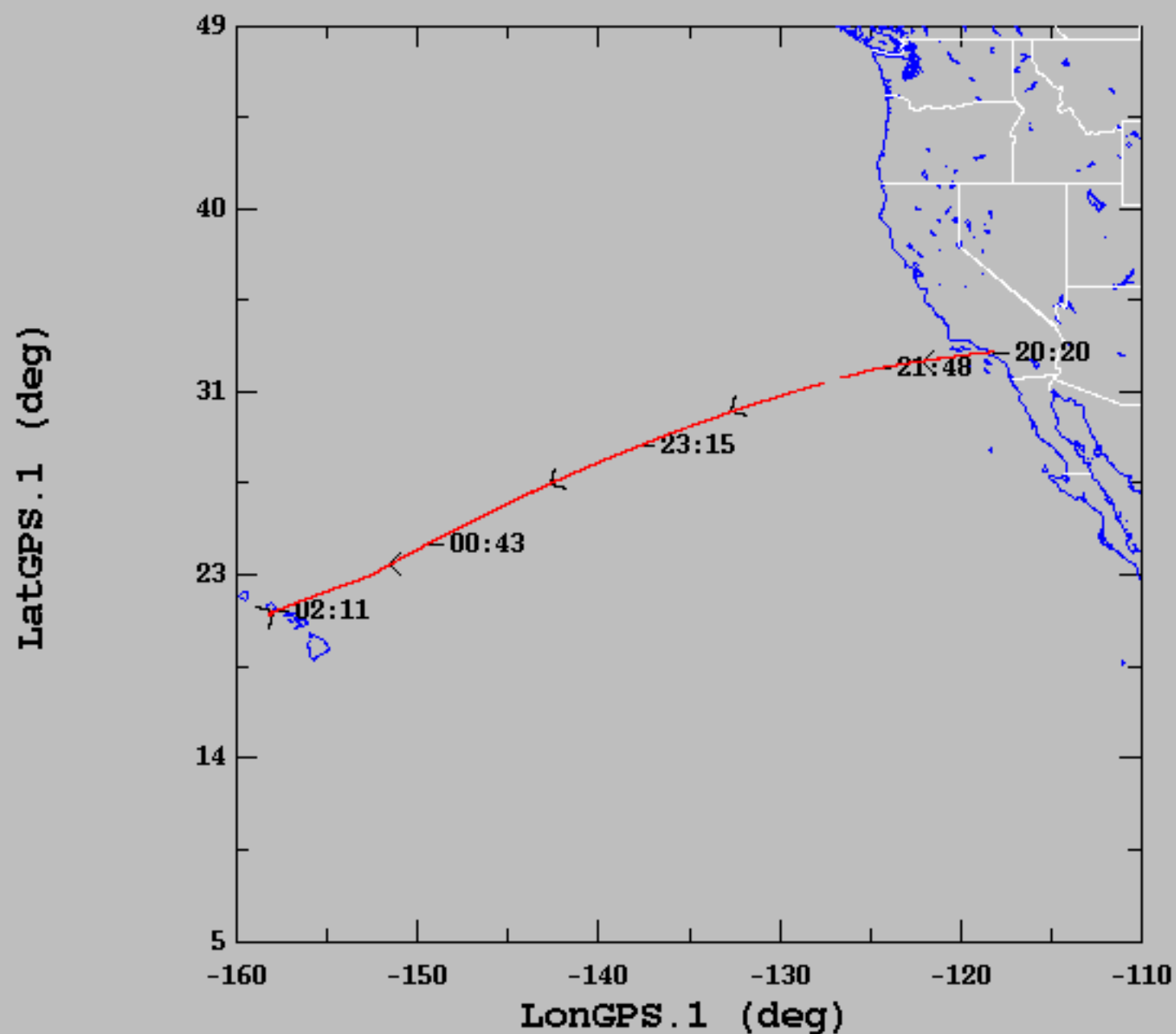
NOTES:

Data missing between approximately 21:59 and 22:06 UTC.
GPS.3 unavailable.
TTM.2 unavailable.
Wind data unreliable.

Flight Director Carpenter / Henning
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Drop #	CH	TIME	Sonde Serial #	OBS #	Lat	Long	SFC Pressure	SFC or Last Wind	500 mb	250 mb	Status	KWBC Time	Comments
1	1	0237	12225065	1	31.1	-132.1	1021.9	025/15	586	083	P S F	2258	
2	2	0245	132355118	2	30.7	-133.4	1021.9	035/16	587	085	P S F	2311	
3	3	0252	132335174	3	30.4	-134.1	1022.8	035/08	589	088	P S F	2318	
4											P S F		
5											P S F		
6											P S F		
7											P S F		
8											P S F		
9											P S F		
10											P S F		
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34											P S F		
35											P S F		
36											P S F		

2019-05-25, 20:20:22-26:11:26



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	28.38	4.36	21.13	33.86
LonGPS.1 (deg), 1 s/sec	-138.08	13.20	-158.10	-118.14