

N49RF ERROR SUMMARY
20190527N1

Flight ID: 20190527N1

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.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/20190527N1

Local Met Data	Takeoff PHNL (1604Z)	Landing PHNL (2102Z)
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.

GPS.3 unavailable. TTM.2 unavailable. During descent, TDM.2 did not recover to before-takeoff values, while TDM.1 had a momentary unrepresentative spike. Wind quantities are unreliable.

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

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:		20190527N1		From:		PHNL		To:		PHNL		
FLT #:				Blk In (Z):		21:07		Land (Z):		21:02		
ETD (Z):		16:00		Blk Out (Z):		15:52		T/O (Z):		16:05		
ETE:		4.5		Total Blk:		5.3		Total Flt:		5.0		
Spns Org:		NGS		Program:		PGR		Purpose:		GRAVD FP202		
AOC Flight Crew												
Aircraft Commander:				Mansour			SSA:			Defeo		
SIC:				Nardi / Twining			AVAPS:					
Navigator:							Scientist:			Dahlberg		
Flight Eng:							Scientist:					
Flt Director:				Carpenter / Henning			Scientist:					
SEB:							Scientist:					
Crew Chief:							Visitors:					
Pressure	A/C - Takeoff		Wx Station - Takeoff		A/C - Land		Wx Station - Land					
	1016.1		PHNL 1605Z 1016.1		1016.5		PHNL 2100Z 1016.5					
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		0	Good:		-	Bad:		-	Sent:		-	
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:												

G-IV QC Checklist

Flight ID:	20190527N1
Flight Director(s)	Carpenter / Henning
UWZ.d mean:	-0.33 post-processing

Pressure Comparison		
	T/O	Land
Aircraft	1016.1	1016.5
Tower	PHNL 1605Z 1016.1	PHNL 2100Z 1016.5

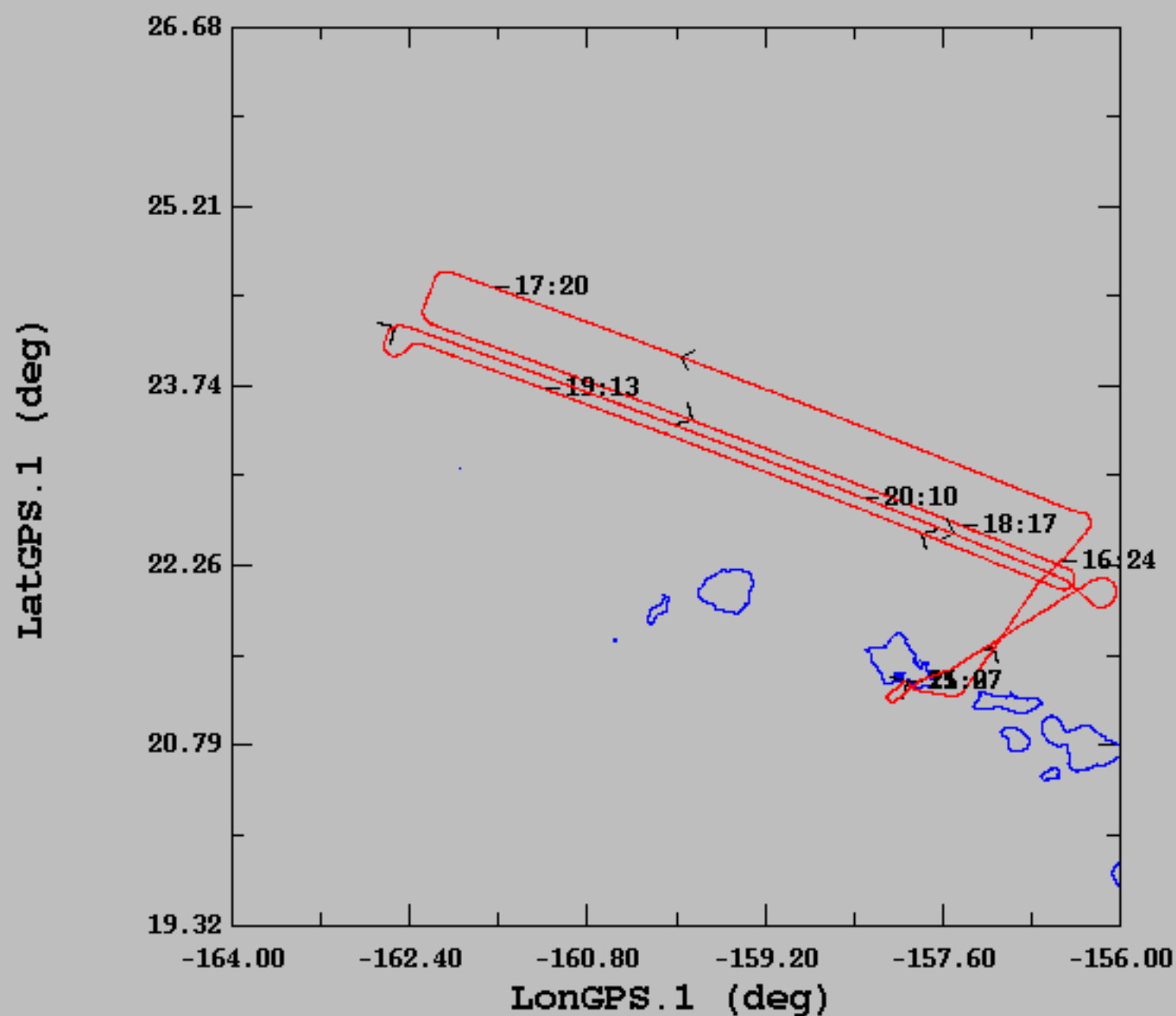
	Raw 1Hz Mean File Parameters					C File Parameters	
✓ Accelerometer	✓ AccAXI.1	✓ AccAYI.1	✓ AccAZI.1			✓ AccZref	
	✓ AccAXI.2	✓ AccAYI.2	✓ AccAZI.2				
	✓ AccAXI.3	✓ AccAYI.3	✓ AccAZI.3				
✓ Altitude	✓ AltGPS.1	✓ AltI.1	✓ AltPaADDU.1	✓ AltBCADDU.1		✓ ALTref	
	✓ AltGPS.2	✓ AltI.2	✓ AltPaADDU.2	✓ AltBCADDU.2		✓ 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
X	Dropwindsonde Log(s) - AVAPS and FD if completed
✓	Flight Track
X	Miscellaneous FD Notes

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

NOTES:
GPS.3 unavailable. TTM.2 unavailable. TDM.2 did not recover during descent, while TDM.1 had an unrepresentative spike near the end of the flight. Wind quantities unreliable.

2019-05-27, 15:27:44-21:07:05



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	22.82	1.01	21.14	24.68
LongGPS.1 (deg), 1 s/sec	-158.87	1.79	-162.63	-156.03