

N49RF ERROR SUMMARY
20220202N1

Flight ID: 20220202N1

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.1
Altimeter	AltGPS.3
INE Selection	1
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/2022/MET/20220202N1

Local Met Data	Takeoff PHNL (1924Z)	Landing PHNL (0247Z)
Dynamic Corrections		Yes
AttackAngleIntercept		6.4652
AttackAngleSlope		7.59375
SlipAngleIntercept		0.925
SlipAngleSlope		6.56381
AttackAngleIntercept2		5.05753
AttackAngleSlope2		5.52397
SlipAngleIntercept2		0.931
SlipAngleSlope2		6.57562

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.

TTM.2 unavailable. TDMs require calibration, all moisture quantities should be considered suspect.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	32	30	30
Test sondes	0	0	0
AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Carpenter / Kalen
Phone #: 863-500-3901

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:	20220202N1	FLT #:	22-	AC:	Mansour	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:	1930Z	CP(s):	Varwig		A/C Takeoff	1016.0	Good	Bad	Sent
To:	PHNL	ETA:	0300Z		de Triquet		ASOS Takeoff	PHNL 1925Z 1016.5 mb	30	2	30
Block Time		Flight Time		NAV:					BTs		
In:	2:51	Land:	2:47	FE(s):			A/C Land	1013.1	Good	Bad	Sent
Out:	19:12	T/O:	19:25	FD(s):	Carpenter		ASOS Land	PHNL 0253Z 1013.8 mb	0	0	0
Total:	7.7	Total:	7.4	SSA:	Miller		Visitors:				
Sponsoring Org:		NWS / OAR		AVAPS:	Paul		Storm Number ID:		N/A		
Program:		PAR		SEB:	Andrews		(ie: AL072012)				
Purpose:		A.R. Mission 4 - IOP08			MX:			TCPOD/WSP0D Mission (ie: NOAA2 2418A SANDY)		NOAA9 04WSC IOP08	
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:	N/A			

*Highlighted items must be completed before departure.

Remarks:

G-IV QC Checklist

Overall Assessment	Major instrument issue(s) - significant mission impact.
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Flight ID:	20220202N1	Pressure Comparison		
Flight Director(s):	Carpenter / Kalen		T/O	Land
Mission:	Tasked/Operational	Aircraft	1016.0	1013.1
UWZ.d mean:	0.18	Tower	PHNL 1925Z 1016.5 mb	PHNL 0253Z 1013.8 mb

	Raw 1Hz Mean File Parameters					C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI.3	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI.3	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI.3	✓ AccZI.1 ✓ AccZI.2 ✓ AccZI.3		✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3	✓ AltI.1 ✓ AltI.2 ✓ AltI.3	✓ AltPaADDU.1 ✓ AltPaADDU.2 ✓ AltRA.1	✓ AltBCADDU.1 ✓ AltBCADDU.2		✓ ALTref ✓ ALTPA.d ✓ ALTGA.d	
✓ Ground Speed	✓ GsXI.1 ✓ GsXI.2 ✓ GsXI.3 ✓ GsXGPS.1 ✓ GsXGPS.2	✓ GsYI.1 ✓ GsYI.2 ✓ GsYI.3 ✓ GsYGPS.1 ✓ GsYGPS.2	✓ GsZI.1 ✓ GsZI.2 ✓ GsZI.3 ✓ GsZGPS.1 ✓ GsZGPS.2	✓ GsGPS.1 ✓ GsGPS.2		✓ GSXref ✓ GSYref ✓ GSZref	
✓ Lat / Lon	✓ LatGPS.1 ✓ LatGPS.2 ✓ LatGPS.3	✓ LatI.1 ✓ LatI.2 ✓ LatI.3	✓ LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3	✓ LonI.1 ✓ LonI.2 ✓ LonI.3		✓ LATref ✓ LONref	
✓ Pressure	✓ PDALPHA.1 ✓ PDALPHA.2 ✓ PDBETA.1 ✓ PDBETA.2	✓ PQALPHA.1 ✓ PQALPHA.2 ✓ PQBETA.1 ✓ PQBETA.2	✓ PQM.1 ✓ PQM.2	✓ PSM.1 ✓ PSM.2		✓ PDLAPHaref ✓ PDBETAref ✓ PQALPHaref ✓ PQBETAref	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1				✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 ✓ PitchI.3	✓ PitchRatel.1 ✓ PitchRatel.2 ✓ PitchRatel.3	✓ RollI.1 ✓ RollI.2 ✓ RollI.3	✓ RollRatel.1 ✓ RollRatel.2 ✓ RollRatel.3		✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✗ TTM.2 ✓ TTM.3	✓ TTM.4	✗ TDM.1 ✗ TDM.2			✓ 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:
TTM.2 unavailable.
TDM.1 and TDM.2 require calibration. All moisture quantities unreliable.

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20220202N1

ASPEN Operator/Flight Director(s): Carpenter / Kalen

Mission ID: 04W5C IOP08

Storm Name/Track: Atmospheric Rivers mission 4

PG 1 of 1

Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	—	204603	40778	1	—	—	BKN	—	— bad chute —	—	Y
2	1	204728	20999	2	28.6	-157.6	BKN	1017.4	18015 backup for Pt. 1	2106	N
3	2	205539	10887	3	29.4	-158.0	BKN	1016.2	19521	2113	N
4	3	210435	40560	4	30.2	-158.4	OVC	1013.6	19021	2126	N
5	4	211350	10423	1	31.1	-158.9	OVC	1011.7	25517	2133	N
6	5	212247	10402	2	31.9	-159.3	OVC	1010.7	21023	2144	N
7	6	213145	40882	3	32.8	-159.8	OVC	1009.5	24515	2150	N
8	7	214042	40553	4	33.6	-160.3	OVC	1008.4	21516	2204	N
9	8	214926	40833	1	34.5	-160.8	BKN	1005.6	22521	2216	N
10	9	215811	40261	2	35.3	-161.3	BKN	1002.9	23525	2220	N
11	10	220636	40451	3	36.2	-161.8	SCT	1001.1	23534	2232	N
12	11	221445	10897	4	37.0	-162.3	SCT	999.0	22535	2238	N
13	12	222311	10426	1	37.8	-162.9	SCT	994.8	23533	2246	N
14	13	223112	10892	2	38.7	-163.4	BKN	991.1	21531	2250	N
15	—	223906	10400	3	—	—	OVC	—	— bad chute —	—	Y
16	14	224033	40287	4	39.5	-164.3	OVC	987.6	25539 backup for Pt. 14	2300	N
17	15	225007	10435	1	39.4	-165.5	BKN	986.9	26537	2313	N
18	16	230111	50208	2	39.3	-167.0	BKN	992.8	31044	2323	N
19	17	231207	30919	3	39.1	-168.5	SCT	997.4	30030	2330	N
20	18	232232	20043	1	38.9	-169.9	SCT	998.1	28529	2343	N
21	19	233025	10941	2	38.0	-170.0	SCT	1001.0	28033	2349	N
22	20	233831	40775	3	37.0	-170.0	SCT	1003.6	28030	2359	N
23	21	234639	40245	4	36.0	-170.0	SCT	1005.3	29516	0007	N
24	22	235505	50499	1	35.0	-170.0	SCT	1007.0	27024	0014	N
25	23	000423	10424	2	34.0	-170.0	FEW	1008.9	26520	0027	N
26	24	001339	50329	3	33.6	-170.0	FEW	1009.0	27519	0034	N
27	25	002234	40488	1	32.0	-170.0	FEW	1010.2	30013	0044	N
28	26	003112	40762	4	31.0	-170.0	FEW	1011.0	32008	0054	N
29	27	003948	40759	2	30.0	-170.0	FEW	1011.4	30512	0101	N
30	28	004821	40559	3	29.0	-170.0	FEW	1011.2	32504	0109	N
31	29	005646	40241	1	28.0	-170.0	FEW	1011.2	01011	0122	N
32	30	010442	40777	4	27.0	-170.0	BKN	1011.7	02509	0131	N
33											
34											
35											
36											
37											
38											

ASPEN Operator will ensure this form is delivered to the AOC Flight Director to be archived

COMMENTS:

ASPEN v. 3.4.6

Obs
Xmitted 30Obs
Missed 0# of sondes
launched 32# of bad
sondes 2

2022-02-02, 18:41:31-26:51:40

