

N49RF ERROR SUMMARY
Atmospheric Rivers 2022 IOP-19

Flight ID: 20220308N1

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.2
Differential Sideslip Pressure Probe	PDBETA.2
Dynamic Attack Pressure Probe	PQALPHA.2
Dynamic Sideslip Pressure Probe	PQBETA.2

Flight Directory acdata/2022/MET/20220308N1

Local Met Data	Takeoff PHNL (1903Z)	Landing PHNL (0248Z)
Dynamic Corrections		Yes
AttackAngleIntercept		3.97801
AttackAngleSlope		3.86172
SlipAngleIntercept		1.258
SlipAngleSlope		6.69941
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.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	30	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: Kalen / Henning
Phone #: (863) 500-3982

ACAT-4 Version = 7.3

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20220308N1	FLT #:		AC:	Nardi	Scientists:	Pressure		Dropsondes		
From:	PHNL	ETD:	1900Z	CP(s):	de Triquet		A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:	0300Z	NAV:					30	Ø	30
Block Time		Flight Time		FE(s):			ASOS Takeoff		BTs		
In:	0256Z	Land:	0251Z	FD(s):			A/C Land		Good	Bad	Sent
Out:	1850Z	T/O:	1903Z	SSA:	Kalen Henning		ASOS Land				
Total:	8.1	Total:	7.8	AVAPS:	DeFeo	Visitors:					
Sponsoring Org:	PAR			SEB:			Storm Number ID:				
Program:							(ie: AL072012)				
Purpose:	Atmospheric Rivers			MX:			TCP00/WSP00 Mission		HMA9 07W5C 10P19		
							(ie: NOAA2 2418A SANDY)				
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:

G-IV QC Checklist

Flight ID:	20220308N1
Flight Director(s)	Henning / Kalen
UWZ.d mean:	0.04

Pressure Comparison		
	T/O	Land
Aircraft	1019.7	1015.9
Tower	1019.1	1015.4

	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	☒ 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	☒ 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:

TDM.1 and TDM.2 are unrepresentative. Consider all flight level humidity to be suspect.

TTM.3 displays oscillations of multiple periods superimposed on each other and should not be used

There were no edits made in the measured parameters used to calculate meteorological and navigational parameters.

Takeoff/Landing data: Data during landing and takeoff should be considered suspect

It is recommended that data collected on the ground not be used for scientific analysis.

AOC GPS Dropwindsonde Log (updated Mar 2019)

Flight ID: 20220308N1ASPEN Operator/Flight Director(s): KALEN / HENNINGMission ID: 07WSC 1DP19Storm Name/Track: ATMOSPHERIC RIVERSPG 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	1	205149	20060	1	26.5	168.0	SCT	1019.5	<u>SURFACE WIND</u> 185/10	2120	✓✓
2	2	210347	10965	2	27.0	169.1	BKN	1019.7	175/10	2128	✓✓
3	3	211622	10961	3	27.5	170.3	BKN	1018.0	180/18	2146	✓✓
4	4	212912	30262	4	28.1	171.5	OVC	1017.4	210/11	2210	✓✓
5	5	214217	70040	1	28.5	172.6	OVC	1016.4	260/19	2214	✓✓
6	6	215510	10944	2	29.0	173.8	OVC	1015.4	215/19	2221	✓✓
7	7	220803	10962	3	29.5	175.0	OVC	1016.2	360/12	2228	✓✓
8	8	221914	20055	4	30.7	175.0	BKN	1016.1	345/14	2247	✓✓
9	9	223035	30274	1	31.8	175.0	SCT	1015.2	325/12	2254	✓✓
10	10	224150	10945	2	33.0	175.0	SCT	1015.1	300/12	2303	✓✓
11	11	225303	40646	3	34.2	175.0	SCT	1014.7	290/17	2327	✓✓
12	12	230415	31626	4	35.3	175.0	SCT	1012.5	280/26	2330	✓✓
13	13	231539	31645	1	36.6	175.0	SCT	1010.3	275/26	2338	✓✓
14	14	232456	10867	2	37.7	175.0	SCT	1008.9	280/19	2346	✓✓
15	15	233414	30480	3	38.8	174.9	SCT	1006.5	270/27	2356	✓✓
16	16	233804	40781	4	39.2	174.4	SCT	1007.2	260/26	0000	✓✓
17	17	234207	20066	1	39.4	173.7	SCT	1005.0	265/26	0005	✓✓
18	18	234936	10993	2	38.9	172.6	SCT	1005.8	275/27	0021	✓✓
19	19	235728	10450	3	38.4	171.4	SCT	1007.3	265/27	0022	✓✓
20	20	000519	10036	4	37.8	170.2	SCT	1008.0	270/20	0030	✓✓
21	21	001300	30705	1	37.2	169.0	SCT	1008.2	275/25	0049	✓✓
22	22	002055	40172	2	36.6	167.9	OVC	1008.9	280/25	0054	✓✓
23	23	002846	30892	3	36.0	166.8	OVC	1007.0	275/22	0057	✓✓
24	24	003625	30289	4	35.4	165.7	OVC	1009.0	195/33	0059	✓✓
25	25	004413	40660	1	34.8	164.6	OVC	1011.5	185/29	0107	✓✓
26	26	005206	30260	2	34.1	163.5	OVC	1015.7	185/22	0125	✓✓
27	27	010017	70037	3	33.4	162.5	OVC	1016.4	190/25	0129	✓✓
28	28	011019	30259	4	32.3	162.0	OVC	1019.0	180/22	0134	✓✓
29	29	011932	20056	1	31.2	161.5	BKN	1019.5	170/19	0141	✓✓
30	30	012908	10963	2	30.0	161.0	BKN	1020.6	165/11 LAST REPORT	0151	✓✓
31											
32											
33											
34											
35											
36											
37											
38											

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

COMMENTS:

Obs
Xmitted

30

Obs
Missed

0

of sondes
launched

30

of bad
sondes

0

AVAPS Drop Log

Project: ARC 2022

Mission: ARR

Flight ID: 20220308NY

Take Off: _____

Landing: _____

Flt Dir: Quinn/Rich

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	213820060	1	0	2051	AJP	AR		✓
2	213810965	2	0	2103				✓
3	213810961	3	0	2116				✓
4	213430262	4	0	2119				✓
5	213570040	1	0	2142				✓
6	213810944	2	0	2155				✓
7	213810962	3	0	2208				✓
8	213820055	4	0	2219				✓
9	213430274	1	0	2230				✓
10	213810945	2	0	2241				✓
11	211440646	3	0	2253				✓
12	213431626	4	0	2304				✓
13	213431645	1	0	2315				✓
14	211010867	2	0	2324				✓
15	211030480	3	0	2334				✓
16	211440781	4	0	2338				✓
17	213820066	1	0	2342				✓
18	211010993	2	0	2349				✓
19	212710450	3	0	2357				✓
20	211010036	4	0	0005				✓
21	211030705	1	0	0013				✓
22	213740172	2	0	0020				✓
23	212430892	3	0	0028				✓
24	213430289	4	0	0036				✓
25	211440660	1	0	0044				✓
26	213430260	2	0	0052				✓
27	213570037	3	0	0100				✓
28	213430259	4	0	0110				✓
29	213820056	1	0	0119				✓
30	213810963	2	0	0129				✓
31								

2022-03-08, 19:03:15-26:51:58

LatGPS.3 (deg)

