

62A.

U.S. Dep't. of Commerce / OMAO / NOAA / Aircraft Operations Center

FLT ID: 20140208N1	From: KSUU	To: KSUU
FLT #:	Blk In: 0300 z	Lnd Time: 0255 z
ETD: 1900 z	Blk Out: 1854 z	T/O Time: 1902 z
ETE: 8+30	Total Blk: 8.1	Total Flt: 7.9
Sponsoring Org: ESRL	Program: PAR	Purpose: Budget Box
AOC Flight Crew		
Aircraft Commander: MOYERS		SSA: DEFEO
Co-Pilot: MANSOUR, MACINTYRE		AVAPS: RICHARDS, SMITH
Navigator: /		Scientists: MARTY RALPH (Scrapps)
Flight Eng: /		Scientists: DAVE REYNOLDS (NWS)
Flt Director: HENNING		Scientists: JAY JASPERSE (Sounding City)
SEB: GOLDSTEIN /		Scientists:
Crew Chief: /		Visitors: /

Pressure	A/C - Takeoff 1016.9	Wx Station - Takeoff 1858 30.11 STA 1017.8	A/C - Land 1016.6	Wx Station - Land 0256: 30.09 STA 1017.1
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AS REQUIRED BY ORM	YES / NO	REMARKS
VOLCANIC ASH		
SCIENCE MISSION WITHIN BOUNDARY LAYER		
LACK OF PRECIPITATION		
RELATIVE HUMIDITY AT OR ABOVE 80%		
LARGE AIR-SEA TEMPERATURE GRADIENT		
HIGH SURFACE WINDS		
LONG FETCH AND/OR DURATION OF SFC WIND		
SEA SALT ACCRETION FORECAST		
SEA SALT ACCRETION OBSERVED		

Dropsondes	29	Good: 29	Bad: 0	Sent: 29
AXBT		Good:	Bad:	Sent:

List other data sources in Remarks section

Remarks (Storm VDM Identifier, Mission ID, Fix Times)

Remarks (Storm VDM Identifier, Mission ID, Fix Times)	Fix #	VDM Ob Num	Fix Time / SLP
Storm Number Identifier (VDM): (ie: AL072012)			

TCPOD/WSPOD Mission ID: NOAA9 WXWXA ATMOSRIVERB
(ie: NOAA2 2418A SANDY)

Remarks:

N TR1 37N 135W (8)
S TR1E 31N 132W
S TR2 29.5N 135W (8)
N TR2E 35.5N 138W
N TR3 34N 141W (8)
S TR3E 28N 138W
3 MP 31.5N 139.5W
2 MP 33N 136.5W 12 or 13
1 MP 34.5N 133.5W

450 NM KSMF
KOAK
+/- 30.11

TAF
RADAR
climbout
turb Fz
icing
WV/IR
Sounding
PPT



N49RF ERROR SUMMARY

Atmos Rivers #2

KSUU > KSUU 8 Feb 2014



Flight ID: 20140208N1

<u>Sensor or system</u>	<u>Number or Name</u>
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.4
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
Constants File	49cal102
Flight Directory	acdata/MET/2014/20140208N1

Notes:

TDM.1 and TDM.2 are both not rated for use under -50 deg C and cannot be considered reliable for dew points colder than -50C. TDM.1 exceeded the ambient temperature for nearly the entire mission during cruise above 41,000 feet. TDM.2 was used for post processing.

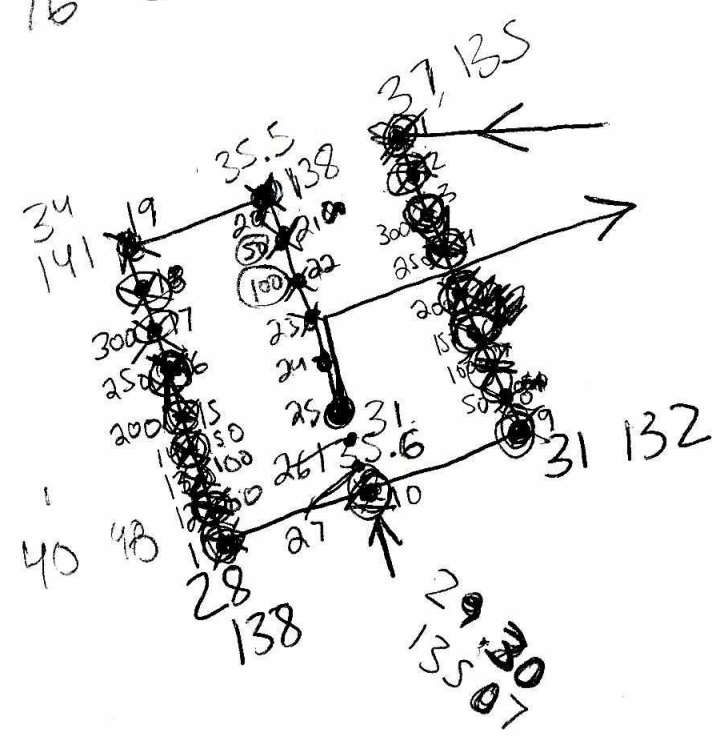
TTM.3 continues to display an oscillation with a magnitude of about 0.6 to 0.8 degrees C and a period of about 90 to 120 seconds. TTM.4 was selected for Total Temperature in post processing.

	Takeoff (1902Z)	Landing (0255Z)
Aircraft Static Pressure	1017.0 mb	1016.6 mb
Corrected Tower Pressure	1017.8 mb	1017.1 mb

29 dropsondes deployed. All were good and transmitted.

⑤ 40
 ① 32
 ③ 21
 16 8

29 30
 135 07



KLAS

8 16 24 32 40 48

29 30
 135 07

ATTACHMENT 1 (See the Fillable Form)

Hazards encountered during performance of duty		Date:
Employee name(s):		Time of exposure or Flight Times (if applicable):
Recommended by:		Start:
(Name and Title)		End:
1.		Time:
2.		Task Code:
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		
☐	Altitude chamber subject exposed to greater than 18,000 feet.	
☐	Toxic chemical exposure.	
☐	Explosive or incendiary devices (CAD).	
☐	Initial or transitional pilot proficiency training involving simulated emergency procedures.	
☐	Test flight of newly repaired or modified aircraft.	
☐	Close formation flights.	
☐	Flights at levels below 500 feet/ day	
☐	Flights at levels below 1000 feet/ night	
Extreme Weather Conditions:		
☐	Tropical Cyclones	
☐	Winter storm low altitude convection or wind shear.	
☐	Winter storm within 5000 feet of convective squall line.	
☐	Winter storm within 100 nm of jet stream core entrance.	
☐	Thunderstorms: In close proximity or through cumulonimbus, cumulus congestus clouds, or thunderstorms.	
☐	Atmospheric waves within 5000 feet of mountains with winds greater than 25 knots.	
☐	Atmospheric waves in areas of high boundary layer turbulence.	
Approving Official Signature / Title		Date

AOC GPS Dropwindsonde Log

Flight ID: 20140208N1

Flight Director: HEWNING

Mission ID: WXWXA

ATMOSKRIEFCBStorm/Track:

Pg of

Ch. #	Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	Wx Cond.	SFC Pres (mb)	Ob #	L5/R5	Last Winds R5 (ht, ws, wd)	Last Winds L5 (ht, ws, wd)	Sent Time/KWBC (UTC)
1	1	5151	2050					1				✓
2	2	5064	2058					2				✓
3	3	5185	2105					3				✓
4	4	5050	2112					4				✓
5	5	5145	2118					5				✓
6	6	5106	2125					6				✓
7	7	5130	2132					7				✓
8	8	5317	2139					8				✓
9	9	5020	2146					9				✓
10	10	5091	2153					10				✓
11	11	5131	2200					11				✓
12	12	5144	2207					12				✓
13	13	5190	2214					13				✓
14	14	5063	2305					14				✓
15	15	5107	2312					15				✓
16	16	5181	2319					16				✓
17	17	5163	2326					17				✓
18	18	5065	2332					18				✓
19	19	5077	2338					19				✓
20	20	5062	2359					20				✓
21	21	5186	0008					21				✓
22	22	5126	0015					22				✓
23	23	5174	0022					23				✓
24	24	5032	0029					24				✓
25	25	5123	0035					25				✓
26	26	5022	0042					26				✓
27	27	5179	0050					27				✓
28	28	5021	0056					28				✓
29	29	5185	0130					29				✓

ELB22

195/32 (850 240/41)

Dave Ray
Main
Alamogordo
OK

SW
midpt
SW

NIN
2

Project : Atmospheric Rivers 2014Mission : AR2Flight ID : 20140208N1Take Off : 1900

Landing : _____

Flt Dir : Henning

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	112 445 151	1/5	Ø	2050	JAS	AR		✓
2	112 615 064	2	Ø	2058				✓
3	112 545 185	3	Ø	2105				✓
4	112 815 050	4	Ø	2112				✓
5	112 445 145	1	Ø	2118	✓	✓		✓
6	112 615 106	2	Ø	2125				✓
7	112 815 130	3	Ø	2132				✓
8	112 455 317	4	Ø	2139				✓
9	114 315 020	1	Ø	2146				✓
10	112 445 091	2	-0.6	2216				✓
11	114 325 131	3	Ø	2243				✓
12	114 325 144	4	Ø	2251				✓
13	112 545 190	1	-.4	2258				✓
14	123 315 063	2	Ø	2305				✓
15	112 615 107	3	Ø	2312				✓
16	114 325 181	4	Ø	2319				✓
17	112 825 162	1	Ø	2325				✓
18	112 615 065	2	Ø	2332				✓
19	112 615 077	3	Ø	2338				✓
20	123 315 062	4	Ø	2359				✓
21	114 325 186	1	Ø	0008				✓
22	114 325 126	2	-0.4	0015				✓
23	112 825 174	3	Ø	0022				✓
24	114 315 032	4	-0.4	0029				✓
25	114 325 123	1	-0.4	0035				✓
26	114 315 022	2	-.5	0043				✓
27	114 325 179	3	Ø	0050				✓
28	114 315 021	4	-0.4	0056				✓
29	114 325 185	1	-0.4	0131				✓
30								
31								
32								
33			29	29.7N		135	07.3W	
34								

02/08/2014, 19:02:00-26:55:34

