

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

FLT ID: 20140215N1	From: KSUU	To: KSUU
FLT #:	Blk In: 0024 z	Lnd Time: 0019 z
ETD: 1730 z	Blk Out: 1726 z	T/O Time: 1729 z
ETE: 7+00	Total Blk: 7.0	Total Flt: 6.8
Sponsoring Org: ESRL	Program: PAR	Purpose: BUDGET BOX HIGH

AOC Flight Crew

Aircraft Commander: MOYERS	SSA: DEFEO
Co-Pilot: MANSOUR / MacINTYRE	AVAPS: SMITH / RICHARDS
Navigator: /	Scientists: Marty Ralph
Flight Eng: /	Scientists:
Flt Director: HENNING	Scientists:
SEB: GOLDSTEIN /	Scientists:

Crew Chief: Visitors: STA 1014.4 / STA 1012.7

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	*2 1014.5	1558 30.00 1758 30.01	1013.3	4788 82358 2996 0058 2997

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	14	Good: 14	Bad: 0	Sent: 14
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AXBT		Good:	Bad:	Sent:
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List other data sources in Remarks section

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

TCPOD/WSPOD Mission ID: WXWXE ATMOSRIVERG
(ie: NOAA2 2418A SANDY)

Remarks:



N49RF ERROR SUMMARY

Atmos Rivers #7

KSUU > KSUU 14 Feb 2014



Flight ID: 20140215N1

<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/2014/20140215N1

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.

TTM.3 continues to display an oscillation with a magnitude of about 0.8 degrees C and a period of about 120 seconds. TTM.4 was selected for Total Temperature in post processing. TTM.4 displays a much smaller oscillation (less than 0.1 deg C) with a much smaller period (about 10 seconds). TTM.1 is about a degree colder than the other total temps at cruise altitude.

	Takeoff (1729Z)	Landing (0019Z)
Aircraft Static Pressure	1014.5 mb	1013.3 mb
Corrected Tower Pressure	1014.4 mb	1012.7 mb

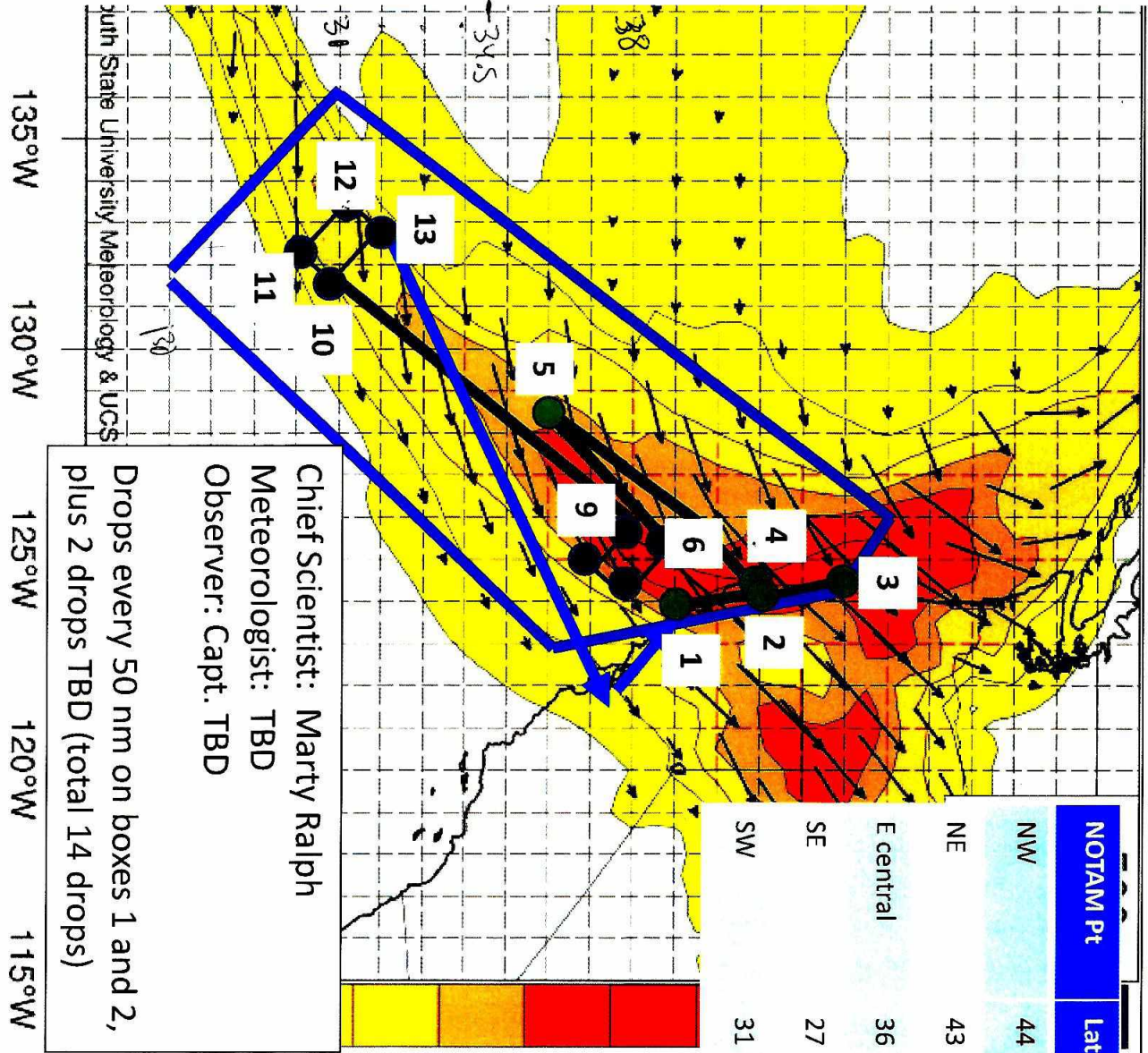
14 Dropsondes deployed. All 14 were good and transmitted.

HENNING

Pg ____ of ____

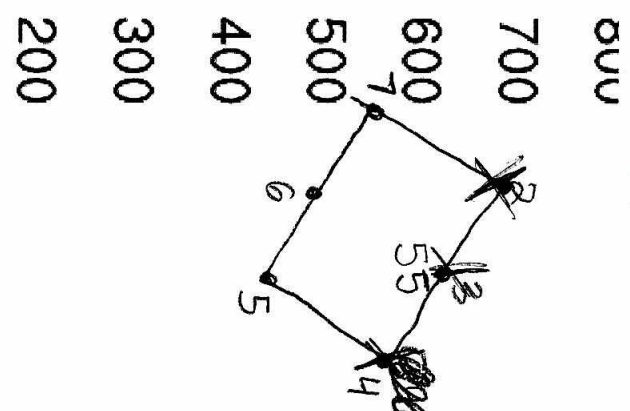
120

DR + AR boxes: TO 1000 AM 15 Feb; 14 drops



60 66 78

NOTAM Pt	Lat	Lon
NW	44	126
NE	43	124
E central	36	123
SE	27	132
SW	31	136



Waypoint	Lat
1	39 123.9
2	41 124
3	43 124.5
4	41 124.5
5	36 128.5
6 (box 1 NW)	39 126
7 (box 1 NE)	38 124
8 (box 1 SE)	37 125
9 (box 1 SW)	38 127
10 (box 2 NE)	31 131
11 (box 2 SE)	30 132
12 (box 2 SW)	31 134
13 (box 2 NW)	32 133

- Waypoint not part of an AR Bo
- Waypoint is part of an AR Box

5 21 76

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N49RF AVAPS DROP LOG

Lead Tech: Gabe Defeo

Project : Atmospheric Rivers 2014Mission : AR-7Flight ID : 20140215 N1Take Off : 1729 Landing : _____ Flt Dir : Hemming Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	134735 139	1	Ø	1840	TAR	PAR		✓
2	134835 045	1	Ø	1958				✓
3	134835 046	2	Ø	2007				✓
4	134255 199	3	Ø	2014				✓
5	134325 020	4	Ø	2028				✓
6	134255 063	1	Ø	2037				✓
7	134325 011	2	Ø	2046				✓
8	134325 029	3	Ø	2124				✓
9	134835 051	4	Ø	2201				✓
10	134735 158	1	Ø	2214				✓
11	134325 041	2	Ø	2224				✓
12	134325 013	3	Ø	2233				✓
13	134735 135	4	Ø	2244				✓
14	134255 071	1	Ø	2252				
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02/15/2014, 16:30:11-24:25:09

