

13 fl. (4th)

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

FLT ID: 20140218N1	From: PHNL	To: PHNL
FLT #:	Blk In: 0439 z	Lnd Time: 0431 z
ETD: 2200z	Blk Out: 2137 z	T/O Time: 2148 z
ETE: 7+00	Total Blk: 7.0	Total Flt: 6.7
Sponsoring Org: ESRL	Program: PAR	Purpose: INT HIGH

AOC Flight Crew

Aircraft Commander: MOYERS	SSA: DEEEO
Co-Pilot: MANSOUR / MacINTYRE	AVAPS: RICHARDS SMITH
Navigator: /	Scientists: Ryan Spackman
Flight Eng: /	Scientists: Gary Barnes
Flt Director: HENNING	Scientists: VANESSA ALMANZA
SEB: GOLDSTEIN /	Scientists:

Crew Chief: Visitors: STA 1013.4 / STA 1012.8

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	#2 1012.2	2153 29.93 2158 30.00	1010.6	0358 30.07 0353 29.90 0458 30.08 0453 29.92

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
AXBT		Good:	Bad:	Sent:

List other data sources in Remarks section

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: WXWXC ATMOSRIVERH (ie: NOAA2 2418A SANDY)			

Remarks:

1 27N 165W ~~400sp~~

2 30.5N 160.5W

3 24N 142.0W

28/157

Flight ops FAX
(813) 828-4529

Reg. Akira Shinokode

1 → 2 100 nm (4)

2 → 3 100 nm (11) GROUP SONM near conv 28/127

TAF
WV
IR
Sig WX
200 mb
PPT
SkewT
Sounding

24



N49RF ERROR SUMMARY

Atmos Rivers #8

PHNL > PHNL 18 Feb 2014



Flight ID: 20140218N1

<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/2014/20140218N1

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 120 to 180 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 to 20 seconds). This TTM.4 oscillation is only seen at high altitude. TTM.1 is about a degree colder than the other total temps at cruise altitude.

	Takeoff (2148Z)	Landing (0431Z)
Aircraft Static Pressure	1012.2 mb	1010.6 mb
Corrected Tower Pressure	1013.4 mb	1012.8 mb

14 Dropsondes deployed. All 14 were good and transmitted.

AOC GPS Dropwindsonde Log

Flight ID: 20146218W1

Flight Director:

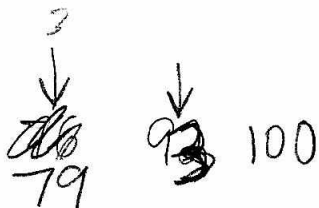
Mission ID:

Storm/Track:

Pg. of

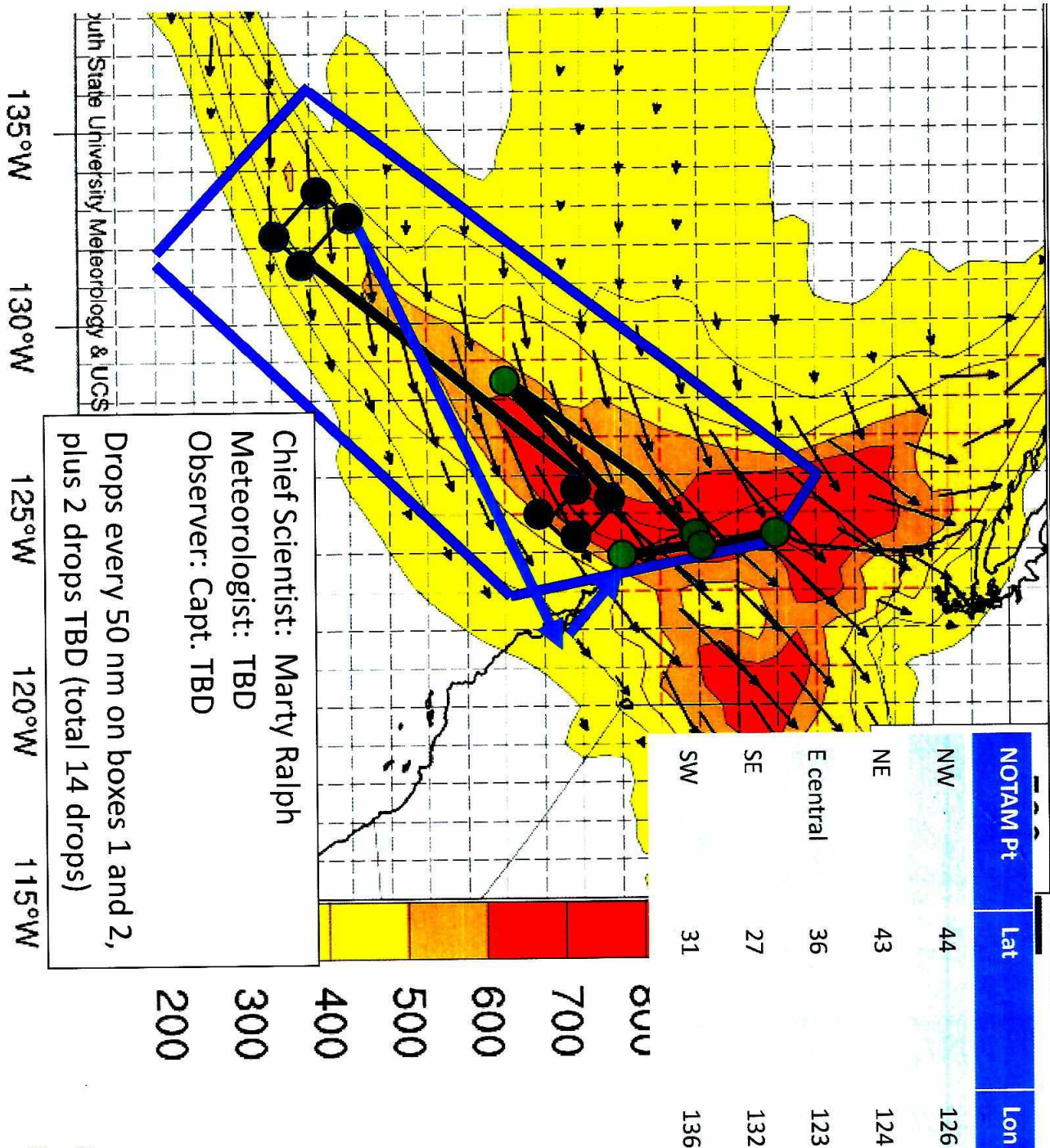
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DR + AR boxes: TO 1000 AM 15 Feb; 14 drops



Waypoint	Lat
1	39
2	41
3	43
4	41
5	36
6 (box 1 NW)	39
7 (box 1 NE)	38
8 (box 1 SE)	37
9 (box 1 SW)	38
10 (box 2 NE)	31
11 (box 2 SE)	30
12 (box 2 SW)	31
13 (box 2 NW)	32

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

Drops in boxes 1 and 2 should be:
Legs 1-2-3-4-5-6 are focused on TI

N49RF AVAPS DROP LOG

Lead Tech: Gabe Defeo

Project: Atmospheric Rivers 2014Mission: ARC-8Flight ID: 20140218NITake Off: 2147

Landing: _____

Flt Dir: Hemming

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	134 735 168	1	0	2312	Truc	PAR		✓
2	134 735 109	2	0	2352				✓
3	134 255 072	3	0	2338				✓
4	112 815 057	4	-5	2353				✓
5	134 255 065	1	0	0006				✓
6	134 255 080	2	-4	0018				✓
7	134 735 142	3	0	0031				✓
8	134 735 176	4	0	0043				✓
9	134 325 043	1	0	0055				✓
10	134 835 042	2	0	0108				
11	134 735 152	3	0	0121				
12	134 835 035	4	0	0133				
13	134 325 153	1	0	0145				
14	134 325 036	2	0	0158				
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