

144A. (44m)

U.S. Dep't. of Commerce / OMAO / NOAA / Aircraft Operations Center				
FLT ID: 20140222N1		From: PANC		To: PANC
FLT #:		Blk In: 0230 z	Lnd Time: 0226z	
ETD: 2000 z		Blk Out: 1942 z	T/O Time: 1953z	
ETE: 0300z 7+00		Total Blk: 6.8	Total Flt: 6.6	
Sponsoring Org: ESRL		Program: PAR	Purpose: IVT HIGH	
AOC Flight Crew				
Aircraft Commander: MOYERS			SSA: DEFE O	
Co-Pilot: MANSOUR / MacINTYRE			AVAPS: SMITH / RICHARDS	
Navigator: /			Scientists:	
Flight Eng: /			Scientists:	
Flt Director: HENNING			Scientists:	
SEB: GOLDSTEIN, STA			Scientists:	
Crew Chief: Visitors: 1021.7 /			STA 1019.9	
	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	#2 1021.8	1953z 30.32	1020.4	steady 30.26
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	4	Good: 4	Bad: 0	Sent: 4 (3 ADC test + 1 project)
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 ATMOSRIVERK				
(ie: NOAA2 2418A SANDY)				
Remarks:				
1 49 144				
2 46 147				
3 51 155				
4 52 30 153 30				
5 47 30 145 30				
6 49 144				
7 54 152				

10G
6-BK
TURB
BLWGR
LLWS
3

245
190
435

26
7
33



N49RF ERROR SUMMARY

Atmos Rivers #11

PANC > PANC 22 Feb 2014



Flight ID: 20140222N1

<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/2014/20140222N1

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.

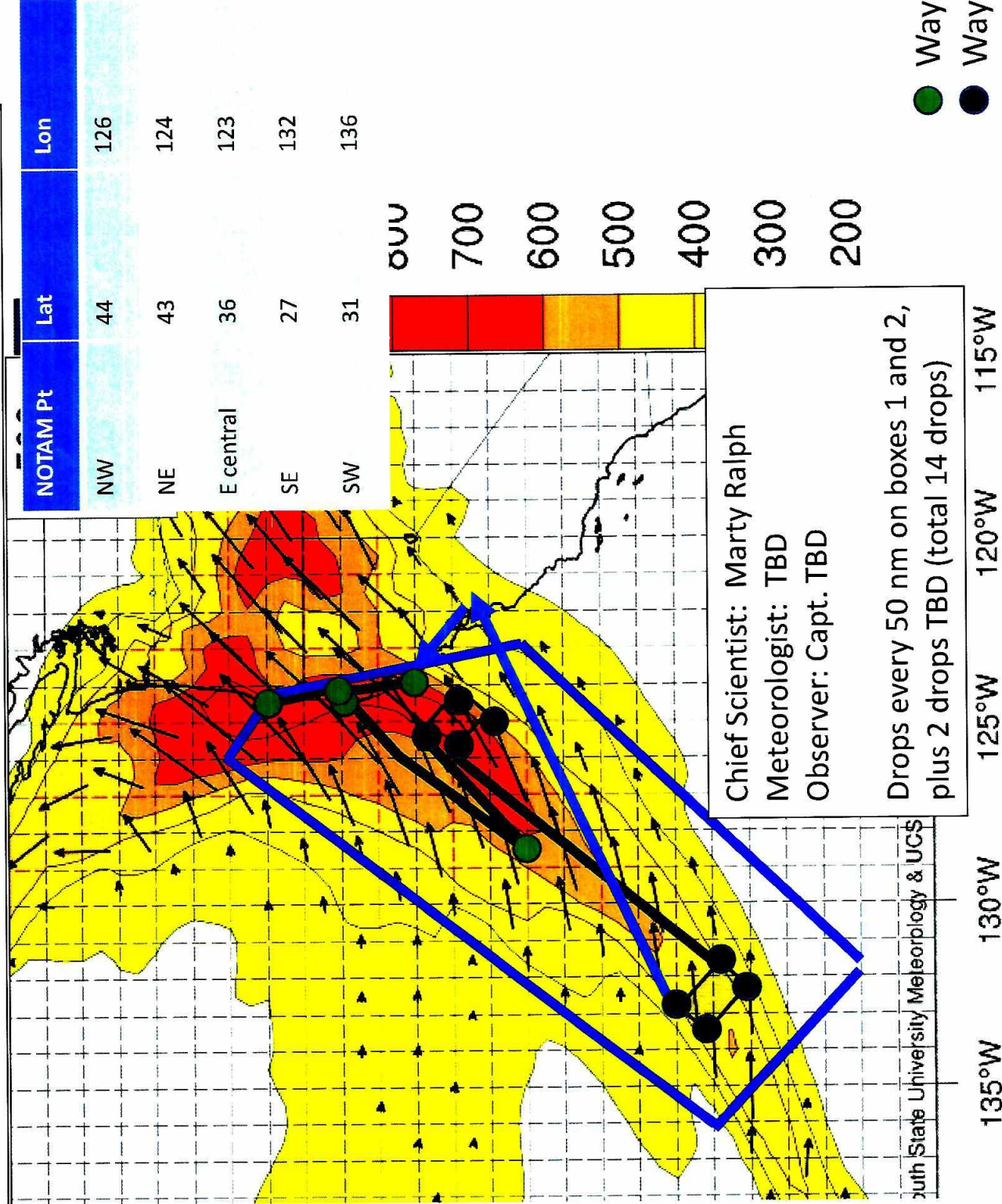
TTM.3 continues to display an oscillation with a magnitude of about 0.6 to 0.8 degrees C and a period of about 120 seconds. TTM.4 was selected for Total Temperature in post processing. TTM.4 displays a much smaller oscillation (less than 0.1 deg C) with a much smaller period (about 10 – 20 seconds). TTM.1 is about a degree colder than the other total temps at cruise altitude.

	Takeoff (1953Z)	Landing (0226Z)
Aircraft Static Pressure	1021.8 mb	1020.4 mb
Corrected Tower Pressure	1021.7 mb	1019.9 mb

4 Dropsondes deployed (3 project inventory + 1 AOC IR test sonde). All were good and transmitted.

Flight Director: Richard Henning
Phone #: (813) 828-3310 ext. 3086

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

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

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

$\frac{7}{9} \times \frac{6}{8}$

NOAA • AOC • SED

N49RF AVAPS DROP LOG

Lead Tech: Gabe Defeo

Project: Atmospheric Rivers 2014Mission: AR-11Flight ID: 20140222N1Take Off: 1953 Z Landing: 0227 Z Flt Dir: Henning Launcher S/N:

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$ To	Comments	Good ?
1	123315049	1	0	2316	TMR	NW AOC	IR Sonde, Short, I	✓
2	123315014	2	-0.5	2334		NW AOC	IR Sonde, Long, E	✓
3	123315046	3	0	2357		NW AOC	IR Sonde, Short, H	—
4	112815036	4	0	0017		PAR		
5								
6								
7	52.58N 153.34W							
8	51.27N 150.80W							
9	49.35N 147.84W							
10								
11								
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30								
31								
32								
33								
34								

2.66 27878
5.63
1.28 27983
6.67
3.45 27998
6.83

Lost @ 600mb, gained 1st & 2nd

02/22/2014, 19:17:06-26:30:34

ATMOSPHERIC RIVERS MISSION #11
GULF OF ALASKA

