8+14

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

FLT ID: 20130204H1	From: CYHZ	To: CYHZ
FLT #:	Blk In: 0515 z	Lnd Time: 0511 z
ETD: 2100 z	Blk Out: 2046 z	T/O Time: 2057 z
ETE: 8+30	Total Blk: 8.5	Total Flt: 8.2
Sponsoring Org: NESDIS	Program: PND (OWW)	Purpose: IWRAP

RTN 530z 130AM

AOC Flight Crew

Aircraft Commander: SWEENEY	SSA: BOSKO
Co-Pilot: KIBBEY / PRICE	AVAPS: NEWNAM
Navigator: SLOAN	Scientists: Paul Chang (NESDIS)
Flight Eng: KLIPPEL HEYSTEK	Scientists Zorana Jelenak (")
Flt Director: HENNING DAMIANO	Scientists Micah Baker (")
SEB: RICHARDS /	Scientists: Joe Sapp (UMASS)
Crew Chief: Visitors: /	/

ARV 2:30 PM

	A/C - Takeoff	~~Wx Station~~ - Takeoff	A/C - Land	Wx Station - Land
Pressure	PSM2 975.5	STA 976.0	19z - 29.21 PRR 20z - 29.25 Taxi - 29.31 PSM2 983.7	STA 985.3 04z 29.56 1447z 29.58 05z 29.59

20z 28025/33 6 -SNBS OVC 2200 530z 26015/25 VIS OVC BKN 4K

AS REQUIRED BY ORM	YES	NO	REMARKS
VOLCANIC ASH		X	
SCIENCE MISSION WITHIN BOUNDARY LAYER		X	1500 m (5000 ft)
LACK OF PRECIPITATION	X		Snow (no liquid precip)
RELATIVE HUMIDITY AT OR ABOVE 80%	X		temp + dew pt near -10°C
LARGE AIR-SEA TEMPERATURE GRADIENT		X	SST near zero
HIGH SURFACE WINDS		X	55 knots
LONG FETCH AND/OR DURATION OF SFC WIND	X		
SEA SALT ACCRETION FORECAST		X	
SEA SALT ACCRETION OBSERVED		X	

Dropsondes	13	Good: 12	Bad: 1	Sent: NONE
AXBT	2	Good: 2	Bad: Ø	Sent: 2 to SEB

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: WXWXA OCEANWINDS13F (ie: NOAA2 2418A SANDY)			

Remarks:
X3115
CYZX - GREENWOOD
CYYT - ST JOHNS
CYQX - GANDER
CYQM - MONCTON

OVERPASS ↗ 0114z
↘ 0150z

TDM #2 departed on RTB at 22K
Came back on descent -40C
Entry Exit

1 56N 57W
2 58N 56W
3 56N 55W
4 58N 53.5W
5 56N 52.5W
X 57N 55W

N5437 55-5Z SCROD

NOAA WP-3D N42RF ERROR SUMMARY
OCEAN WINDS WINTER 2013
4 Feb 2013 PROJECT FLIGHT #6
NESDIS (PND) CYHZ → CYHZ

Flight ID: 20130204H1

Sensor or system	Number or Name
Altitude	AltIGPS.1 (RINU)
Accelerometer	AccZfilterI-GPS.1
Dew Point Probe	TDM.2X
Dynamic Pressure	PQM.2
Inertial Selected	INE1
Static Pressure	PSM.2
Temperature Probe	TTM.1
Constants File	AAMPSConfig/core/n43.xml
Flight Directory	OWW13/MET/20130204H1

Local Met Data	Takeoff (2057z)	Landing (0511z)
Aircraft Static Pressure	975.5 mb	983.7 mb
Tower Pressure (corrected)	976.0 mb	985.3 mb

Notes:

Due to a couple of AAMPS interrupts in preflight the mission file is CXC.nc. Science portion of mission from 2316z – 0228z (5 Feb) flown at 7000 ft radar altitude.

Maycomm (TDM.3) dew point sensor was essentially unusable. TDM.2 (Edgetech), the reference, ran away during the high altitude transit after the science portion. From 0402z to 0454z values for TDM.1 (Buck) were substituted.

All other flight level instruments worked optimally during the flight.

Vertical Winds during the science portion showed a mean UWZ of -0.03 m/s. The variable names GSZ_DPJ, ASZ_DPJ and WSZ_DPJ in the netCDF file represent vertical ground speeds vertical air speeds and vertical wind speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

- 13 dropsondes deployed, 12 good, drop 11 0200z NLD backup was good, none transmitted
- 2 internally loaded AXBT deployed, both were good

Flight Directors: Richard Henning (813) 828-3310 ext. 3086 and A Barry Damiano

AOC GPS Dropwindsonde Log

Flight ID: 20120204H1 Flight Director: HENNING/DAMIANO

Mission ID: WXWXA OCEANWINDS3F Storm/Track: OWW-13 Pg ___ of ___

Ch. #	Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	Wx Cond.	SFC Prs (mb)	Ob #	L5/R5	Last Winds R5 (ht, ws, wd)	Last Winds L5 (ht, ws, wd)	Sent Time/KWBC (UTC)
1	1	5104	2334z							065/61		
2	2	5058	2348							085/39		
3	3	5140	0016							080/58		
4	4	5019	0034							/50		
5	5	5105	0046							090/61		
6	6	5110	01013Osec							100/55		
Combo	7	5048	0114							085/45		
8	8	5018	0116							083/59		
1	9	5047	0145							090/58		
COMBO 2	10	5005	0150							13m 56 kts.		
3	11	5030	0200			SIGNAL DIED BEFORE LD						
4	12	5288	0201 B							085/48		
5	13	5213	021150							075/43		
		AXBT										
	1	3°C	0014z									
	2	3°C	0150z									
							2330 61 kts			0134 60 kts		
							2336 57 kts.					
						57 57 W						

NOAA • AOC • SED N42RF AVAPS DROP LOG Lead Tech: Joe Bosko

Project: Ocean Winds 2013 Mission: WxWx OceanWinds13F Flight ID: 20130204 #1

Take Off : 2057Z Landing: 0510Z Flt Dir : Heading

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge $$ To	Comments	Good ?
1	112455 104	1	Ø	233406	JWV	NEODIS		✓
2	11761505 78	2	Ø	234826	"	"		✓
3	112445 140	3	Ø	000600				✓
4	112615 019	4	Ø	003405				✓
5	112545 105	5	Ø	004607				✓
6	112615 110	6	Ø	010136				✓
7 DT	112615 048	7	Ø	011408				✓
8	112615 019	8	Ø	011602				✓
9	112615 047	1	Ø	014511				✓
10 BT	112515 065	2	Ø	015006				✓
11	112 615 030	3	Ø				Signal Died / No launch Detect	Bad
12	112 545 288	4	Ø	020119				✓
13	112455 213	5	Ø	021155	JWV	NEODIS		✓
14	~~112 545 265~~	~~6~~	~~Ø~~					
15	~~112 455 121~~	~~7~~	~~Ø~~					
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								

A

NAV told
Torch to Joe 2/4/2013
careful for 29.31
Cond 4 white 21~~2~~

Rich was checking for cond 5

2/4/2013

Time	Press	B...
201500	974.3	closed
203310	974.9	closed
051555	983.4	closed
051740	984.4	open

CYGP
CYJT

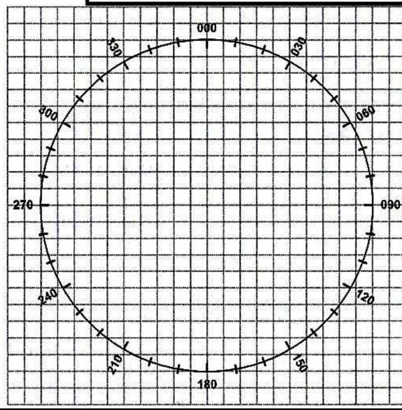
GANDER 709 651 5324 HF // 5616 8891

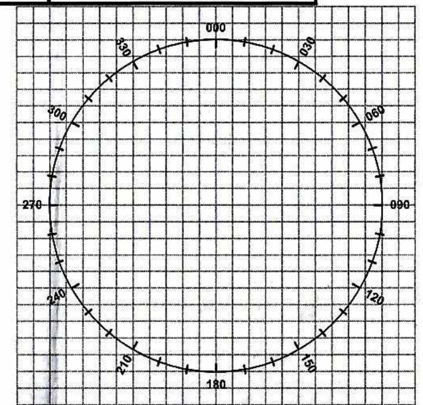
CLEARANCES

FREQ	ALT	HDG	OTHER
118.4	RUR		CLNC: D7 STEAM HOLD AF 3153
135.65	MONCTON		
120.4	133.0		
128.55	GANDER RAD		

MISSION LOG

PAGE ___ OF ___





POSITION REPORT

1. POSITION
2. TIME
3. ALTITUDE
4. NEXT POSITION
5. ETA
6. NEXT POSITION

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA 42, NOAA 42, NOAA 42

- POSITION ____________ N/S ____________ E/W AT ________ Z
- HEADING ______ TRUE/MAG (MAG circled)
- AT ______ KTS TRUE/INDICATED
- FLIGHT LEVEL OR ALTITUDE 7k
- WE ARE A P-3 AIRCRAFT WITH 15 SOULS ON BOARD
- NATURE OF EMERGENCY
- ASSISTANCE DESIRED
- PILOT INTENTIONS
- WE HAVE ________ ENDURANCE REMAINING

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
2038	START	N 4453 W 06331																			#4 START COMP. 2043
2045	TAXI																				A → AIRBOX 2046 OUT
2055	V																				D, X5, HS
2057	T/O																				LV 22 CLR T/O 22
2100	IV																				
2102	III																				
2130	⊙	4659 6207					044	-19	025	+2	027	281	223	27	17k	259	Y412	28	+06	2136	
2202	⊙	N 4926 W 6023					046	-20	026	-2	024	299	183	17	17k	284	SCROD	351	1414	2315	D> SCROD 1100# PD
2230	⊙	5122 5850					052	-21	031	-5	026	294	146	22	17k	286	SCROD	219	+16	2316	
2300	⊙	N 5327 W 5654					062	-22	040	-11	029	305	145	56	17k	283	SCROD	78	+15	2315	
2315	OTHSTA	@ SCROD 7k																			
2317	COMM	CHECKED SCROD 2315			SFC-100																
2330	⊙	N 5542 W 5615					005	-23	342	-6	336	323	140	89	7k (e)	242					
2357	COMM	5726 05612	SFC-100																		
0030	⊙	N 5649 W 5520					174	-24	150	+13	163	156	130	88	7k (R)	231					
0055	COMM	N 5615 W 05400					060	-23	037	-15	022	274	155	76	7k (e)	229					

135.4
120.4

SQ 3153

MISSION LOG	PAGE ___ OF ___

FIX TYPES
(G) - GPS (I) - INS (R) - RADIO (V) - VISUAL (C) - CELESTIAL (D) - DR

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
Ø130	⊙	N 60ØØ W 5321					196	-24	172	+16	188	175	137	85	7k (12)	238					
Ø152	COMM	N 5722 W 5444					259	-24	235	+20	255	247	147	88	7k (12)	236					CALL W/ REQ @ N57W057
Ø2Ø1	COMM	N 57ØØ W 57ØØ	REQ	FORGY	FL 22Ø	PP	ROUTE		CYHZ	/	135.4										
Ø230	⊙	5323 5836					216	-23	187	+10	197	228	129	49	18k	242	CYHZ	66Ø	2+50	Ø530	