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

FLT ID: 20110124I1	From: CYHZ	To: CYHZ
FLT #: 11-011	Blk In: 2147 Z	Lnd Time: 2140 Z
ETD: 1400 Z	Blk Out: 1414 Z	T/O Time: 1421 Z
ETE: 8+00	Total Blk: 7.6	Total Flt: 7.3
Sponsoring Org: NESDIS	Program: OCEAN WINDS	Purpose: WINTER STORM

AOC Flight Crew

Aircraft Commander: NEWMAN	Data System: W KEHER
Co-Pilot: KIBBEY / KERNS	Avaps: MASCARO
Navigator: BRAKOB /	System Engineer: CARPENTER
Flight Eng: FLOYD / DARBY	AA:
Flt Director: SEARS / DAMIANO	AA:
Avionics: OLNEY	Crew Chief:

Participating Scientists, Visitors, & Add'l Aircrew on back. # of people listed on back: 4

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	994.2	996.8	995.1	997.1

ATIS - Takeoff	
ATIS - Land	

Data Source	Number	Data Disposition / Date / Quality
Flight Level Tapes	2	
Radar Tapes	1	
Dropsondes	8	Good: 8 Bad: 0 Sent: 0
AXBT	2	2 0

List other data sources on back in Remarks section.

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)

Recco Times: Fix # Fix Time

Storm Name:

Mission ID:

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FLT ID:	T/O Time: Z	Lnd Time: Z
Name (Last, First)	Activity on Aircraft	Affiliation
CHANG	PI	NESDIS
JELENAK	SCI	NESDIS
DVORSKY	SCI	UMASS
BAKER	SCI	NESDIS

Remarks:

N43RF ERROR SUMMARY

Ocean Winds 2011
Mission #5

Flight ID: 20110124I1

Sensor or system	Number or Name
INE (for wind derivation)	INE1
Accelerometer	ACC1
Temperature Probe	TT1
Dew Point Probe	TDM2X (EDGETECH)
Static Pressure	PSF
Dynamic Pressure	PQF1
Vert. Wind	ALTI1
Constants File	n43_11owv1.adc
Project Directory	/acdata/2011/MET/20110124I1

Notes:
There were three data gaps during this flight from 144652Z – 144655Z, 155501Z – 155508Z, and 183821Z – 183829Z.

There were instances where TDM2 collected erroneous data. During such instances, values for TMD2 were modified using direct substitution of the BUCK (TDM1) dewpoint source for the period: 154950Z – 155023Z. The equation used in the substitution follows:

$$TDM2X = TDM1$$

During portions of the flight, the fuselage dynamic attack pressure (PQAF) output was unreliable. Modifications were made to PQAF substituting values from PQF1. The equations used in the substitutions and the time periods follow.
140421Z – 142133Z: PQAFX = PQF1
142134Z – 155352Z: PQAFX = PQF1 -3
153553Z – 160753Z: PQAFX = PQF1+0.4

There were 2 total AXBTs deployed, 2 were good, 0 failed, and 0 were questionable.

There were 8 total dropsondes deployed, 8 were good, 0 failed, and 0 were questionable.

Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

SPECIAL NOTE!!! The variable names dpj_wgs, dpj_was, and dpj_wz in the netCDF file represent vertical ground, vertical air, 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.

	Takeoff 1421Z	**Landing** 2140Z
Aircraft Static Pressure	994.2 mb	996.8mb
Corrected Tower Pressure	995.1 mb	997.1 mb

Flight Director: A. Barry Damiano/ Ian Sears (813) 828-3310 ext. 3073/3039

ZOA 24 1

CYHZ - ~

ALTERNATES - GANDER & ST JOHN'S ARE OK

- ENROUTE - ABOVE ICING & TURB

- ~~W COA~~ W SIDE OF LOW
  SOME SEV TURB SFC - 4000
  ICING WHILE OUT THERE

-

SEA SALT
  SURFACE WINDS 50-60 KT
  LOW FETCH DIR
  COLD AIR COLD WATER ~ NOT MUCH GRAD
  RH > 80% ~ PRECIP
  BL LOW
  ~~SST~~

VA NEG

- WX COMING HOME

BLOCK 1414
TAKE OFF 1421
LAND 2140
~~OFF~~ BLOCK IN 2147

29.85 RWY 32 "J": 1300Z 300/16 G25 VIS F2K -18/-24

CLEARANCES			
FREQ	ALT	HDG	OTHER
119.2			
133.0	190		D° YHZ
	220		

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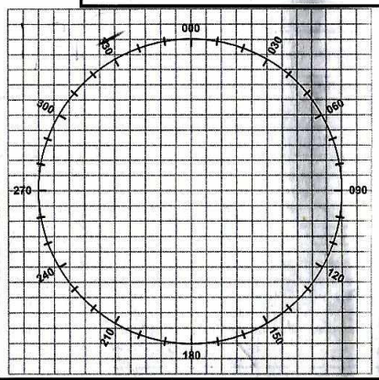

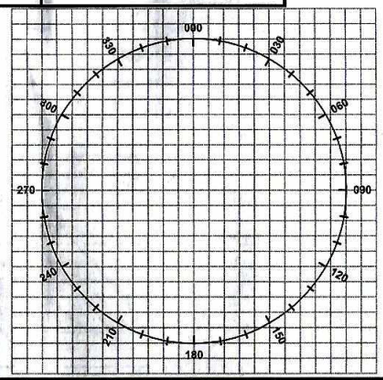

POSITION REPORT

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 43 _____, NOAA _____, NOAA _____

- POSITION _____ N / S _____ E / W AT _____ Z
- HEADING _____ TRUE/MAG
- AT _____ KTS TRUE/INDICATED
- FLIGHT LEVEL OR ALTITUDE _____
- WE ARE A P-3 AIRCRAFT WITH 16 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
1349	ENG	N	N		N																GANDER RADIO (1) 5/5 SELV
1405	TAXI	W	W		W																8864 (2) 3/5 SELV
NOB 1421	BLK T/O																				
1425	XV	44-59.5 63-20.9	44-59.6 63-20.8	-.1 +.1	44-59.5 63-20.9	0 0					076	259	280	40	7K	235					YHZ 050/9 ✓
1516	Δ	47-35.5 57-48.8	47-35.4 57-49.0	+.1 -.2	47-35.0 57-49.0	+.5 -.2					076	324	215	35	190	292					
1602	C	GANDER	RADIO	8864	ENTERING			ALTRES													
1619	Δ	50-45.4 51-43.6	50-45.8 51-41.7	-.4 +1.9	50-44.7 51-43.0	+.7 +.6					078	285	209	61	7K	233					
1702	C	GANDER	RADIO	6622		OPS	NORM			52-38N	050-45W				1702Z		FL070				
1717	Δ	53-39.3 51-39.8	53-38.6 51-43.5	+.7 -3.7	53-38.0 51-40.7	+1.3 -.9					330	321	175	80	7K	249					
1805	C	GANDER	RADIO	6622		OPS	NORM			54-50N	049-48W				1800Z		FL070				
1822	Δ	54-19.8 50-44.6	54-19.7 50-44.7	+.1 -.1	54-18.1 50-45.6	+1.7 -1.0					220	190	176	76	7K	251					
1900	C	GANDER	RADIO	5616		OPS	NORM			53-07N	052-33W				1900Z		FL070				
1928	Δ	52-41.3 53-12.0	52-43.7 53-10.1	+1.6 +1.9	52-42.7 53-13.9	+1.6 -1.9					215	190	200	60	7K	249					
1955	C	GANDER	RADIO	5616			513°N		054°W		FL070		✓		OFFSTA						
2017	Δ	50-17.8 56-23.6	50-16.5 56-26.0	+1.3 -2.4	50-15.0 56-26.9	+2.8 -3.3					243	339	045	4	FL220	335					
2118	Δ	45-59.0 62-08.9	46-00.3 62-09.4	-1.3 +.5	45-56.2 62-13.2	+2.8 -4.3					238	324	300	74	FL220	343					
2140	LAND		U2147	BLOCK																	

8864 6622 8831 8891

5616 6622

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
11,																					
1624	(1)	50-49 51-29																			
1644	(2)	51-34 50-02																			
1704	(3)	52-45 50-43																			
1723	(4)	54-06 51-57																			
1755	(5)	55-02 49-33																			
1817	(6)	54-20 50-30																			
1853	(7)	53-12 52-23																			
1906	(8)(9)	52-50 52-50																			