

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

FLT ID: 201101301	From: CYH2	To: CYH2
FLT #: 11-013	Blk In: 219 Z	Lnd Time: 2322 Z
ETD: Z	Blk Out: 1533 Z	T/O Time: 1542 Z
ETE:	Total Blk:	Total Flt:
Sponsoring Org: NEEDS	Program: OW	Purpose: OW 2011

AOC Flight Crew

Aircraft Commander: NELSON	Data System: NAEHBR
Co-Pilot: MARTIN, FLOYD SILAH	Avaps: MASCARD
Navigator: BRAKOB	System Engineer: CARPENTER
Flight Eng: FLOYD, DARBY	AA: MCFADDEN, J
Flt Director: SEARS, DAMIANO	AA:
Avionics: OLNEY	Crew Chief:

Participating Scientists, Visitors, & Add'l Aircrew on back.

of people listed on back:

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	998.5	998.8	996.2	997.2

ATIS - Takeoff

ATIS - Land

Data Source	Number	Data Disposition / Date / Quality	
Flight Level Tapes	2		
Radar Tapes	1		
Dropsondes	6	Good: 6	Bad: Sent:
AXBT	1		

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, P	PI	NESDLS
JELENAK, Z	PI	NESDLS
DVORSKY, J	SCI	UMASS
BAKER, M	SCI	NESDLS

Remarks:

N43RF ERROR SUMMARY

Ocean Winds 2011

Mission #7



Flight ID: 20110130I1

<u>Sensor or system</u>	<u>Number or Name</u>
INE (for wind derivation)	INE1
Accelerometer	ACC1
Temperature Probe	TT1
Dew Point Probe	TDM3X (MAYCOMM TDL)
Static Pressure	PSFX
Dynamic Pressure	PQF1
Vert. Wind	ALTI1
Constants File	n43_1lowv1.adc
Project Directory	/acdata/2011/MET/20110130I1

Notes:

There was a data gap from 182251Z – 182300Z during this flight.

As data resumed at 182301Z following the data gap ending at 182300Z, PSF spiked. PSF were modified using direct substitution with the following equations.

$$PSFX = PSW + 13.8$$

There were instances where TDM3 collected erroneous data. During such instances, values for TMD3 were modified using direct substitution of another dewpoint source. The equation used in the substitution for the time period 153201Z – 173545Z follows:

$$TDM3X = TDM1$$

There was 1 total AXBT deployed, 1 was good, 0 failed, and 0 were questionable.

There were 6 total dropsondes deployed, 6 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
1542Z

Landing
2319Z

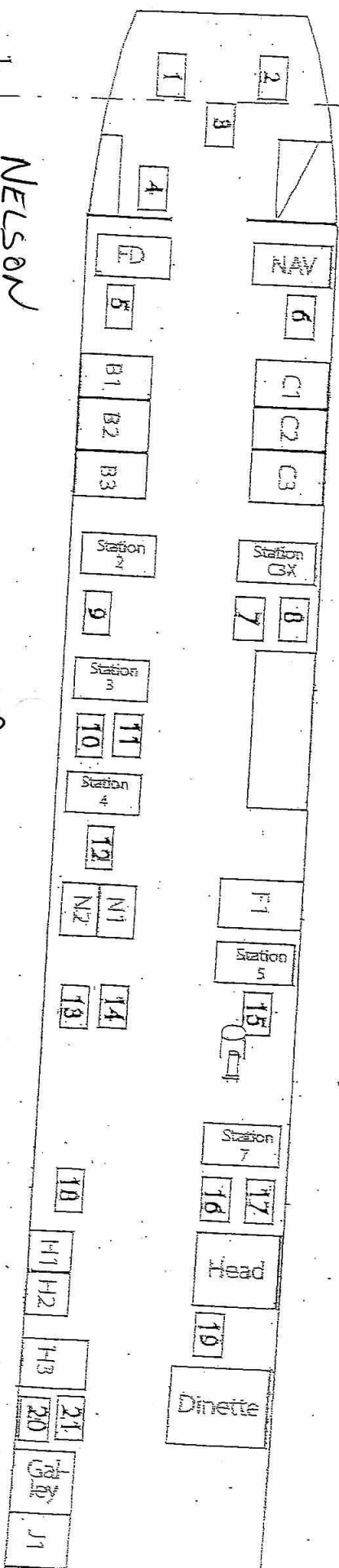
Aircraft Static Pressure	998.5 mb	996.2mb
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Corrected Tower Pressure	998.8 mb	997.2mb
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Flight Director: A. Barry Damiano/ Ian Sears (813) 828-3310 ext. 3073/3039

NOAA AIRCRAFT OPERATIONS CENTER

Flight ID 2011013071



1. NELSON

PILOT

2. MARTIN

COPILOT

3. FLOYD

FLIGHT ENGINEER

4. CHAND

STATION 1

5. SEARS

FLIGHT DIRECTOR

6. BRATTON

NAVIGATOR

7. DARBY

STATION C3X

8. DAMIANO

STATION C3X

9. MCLENNAN

STATION 2

10. TERENAK

STATION 3

11. SILANT

STATION 3

12. WALTER

STATION 4

13. _____

PROJECT SEAT

14. CARENDER

PROJECT SEAT

15. MASCHERO

STATION 5

16. BAKER

STATION 7

17. DORSKY

STATION 7

18. OLNEY

STATION 8

19. _____

DINETTE

20. _____

GALLEY

21. _____

GALLEY

142 - 002

20110130 JA

PTS 51.5 48 / 54.5 45 / 51.5 47
46

- 22 TEMPO 4 MILES ~ SNOW BKN OZD
- 0100 PROB 40 3/4 ~ SN WOOD
- MONCTON - BETTER 0000 Z 4MI BKN OZD
- ENROUTE 40-50 KT TAIL WIND
- ICING - CLIMB OUT
- ON STATION - POKETS OF TURBULENCE
AND CELLULAR SHOWERS / ICING
POSSIBLE
- HOME HEAD WIND 40-60 KT
- ✓ A - NEG

SEA SALT AEROSOL

- ~ 60 KT WINDS = NO
- ~ LONG FETCH = YES
- ~ LONG DURATION = NO
- ~ WARM WATER = YES
- ~ COLD AIR OVER WARM WATER = YES
- ~ HIGH GRADIENT SST - NOT IN OF AREA
- ~ BL - MODELS SHOW BELOW US
- MODERATE
- ~ HIGH RH = YES

- BLOCK IN land 2319
- BLOCK OUT 1533 OFF 1542
- 2015 PT 3 CLEAR DIR HP Z F220

0800 1815

20110130 I

- PS - 998.2 mb TAKEOFF
- 6 SONDERS - 6 GOOD
- 1 BT BT GOOD
-

- TODAY'S FLIGHT

- LIGHT CHOP OCCASIONALLY
- MODERATE CHOP ISOLATED
- NE STRATIFORM IN CLOUDS
- S CUMULIFORM - ABOVE
BKN CLOUDS BELOW
- 55 KT SURFACE WIND MAX
- SFMR SEEMED TO RUN ALTH

POSITION REPORT

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 _____, NOAA _____

- POSITION _____

- HEADING _____ TRUE/MAG _____
- AT _____ KTS TRUE/INDICATED _____

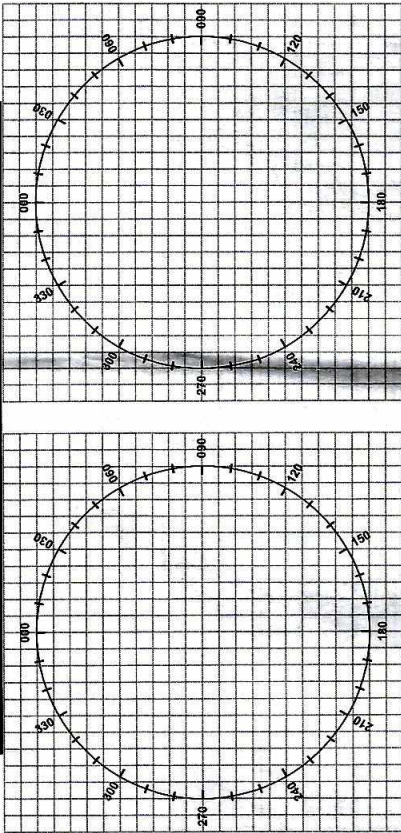
- FLIGHT LEVEL OR ALTITUDE _____

- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD
- NATURE OF EMERGENCY

- NATURE OF EMERGEN
- ASSISTANCE DESIRED

- PILOT INTENTIONS

ENDURANCE REMAINING



TIME	FIX TYPE	POSITION	INS 1 POSITION	KERR	INS 2 POSITION	KERR	VAR +E=>	TH	DR +R=>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1527	C-0	N	N		N															
1533	TAXI	N	N		N															
1533	BOX																			
1541	T-10																			
1544	XV	44-58.2 63-19.9	44-58.2 63-19.9	0	44-58.2 63-19.9	0				060	253	245	20	TK	235					41206/4 58 19 V
1637	A	47-29.7 57-29.5	47-30.2 57-29.5	-1.5 +1.7	47-30.0 57-29.7	-1.3 +1.8				052	329	254	33	230	299					
1732	A	50-28.5 50-58.8	50-28.4 50-57.1	-1.1 +1.7	50-28.2 50-58.0	-1.3 +1.8				060	354	231	42	230	312					
1740	C	GANDER	RADIO	5616	5616	5616	04952W			FL160										
1831	A	52-58.2 46-30.8	52-58.5 46-34.6	-1.3 -3.8	52-57.9 46-31.2	+1.3 -1.1				024	223	310	40	TK	241					
1840	C	GANDER	RADIO	5616	5616	5616	04952W			024	250	1840Z								
1914	C	GANDER	RADIO	5616	5616	5616	04952W			024	250	1840Z								
1937	A	53-24.5 45-37.5	53-24.6 45-37.8	-1.1 +1.3	53-24.6 45-36.9	+1.6				020	203	323	38	TK	230					
1943	C	GANDER	RADIO	5616	5616	5616	04952W			020	203	323	38	TK	230					
2030	C	GANDER	RADIO	5616	5616	5616	04952W			020	203	323	38	TK	230					
2033	A	51-22.3 47-16.9	51-20.6 47-14.6	+1.7 +2.3	51-22.0 47-16.3	+1.3 +1.6				246	237	277	32	140	267					
2109	C	GANDER	RADIO	5616	5616	5616	04952W			246	237	277	32	140	267					
2137	A	49-02.4 54-18.0	49-01.6 54-19.5	+1.6 -1.5	49-02.1 54-18.2	+1.3 -1.2				240	300	280	39	220	330					
2234	A	46-24.9 60-07.7	46-26.2 60-07.8	-1.3 -1.1	46-25.7 60-07.4	+1.2 +1.3				238	287	250	47	220	333					

IN 8984

6622

91925 375

6622

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

[illegible]