

U.S. Dept. of Commerce / NMAO / NOAA / Aircraft Operations Center

Flt ID: 20120124I1	From: KMCF	To: CYHZ
Flt. No: 12 -	Blk In: 1831 z	Time On: 1824 z
ETD: 13z	Blk Out: 1322 z	Time Off: 1330 z
ETE: 08 + 5 + 30	Blk Time: 5.9 (5.2) Hrs	Flt Time: + (4.9) Hrs
Sponsoring Org: NESDIS	Program: OWW	Purpose: Transit + test

AOC Flight Crew

Aircraft Commander: NEWMAN SWEENEY	Data System: BOSKO
Co-Pilot: SWEENEY, PRICE	AVAPS: LYNCH, T
Navigator: SLOAN,	System Eng: MILLER, L
Flight Eng: KLIPPEL, DARBY	AA:
Flight Director: DAMIANO, WILLIAMS	AA:
Avionics: NEWNAM	Crew Chief: KREGELKA

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
CHANG, PAUL	PI	NESDIS
SAPP, JOE	SCI	UMASS
BAKER, MICAH	SCI	NESDIS

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

Recco Times

Fix # Fix Time

Storm Name:

Mission ID:

WXWXA TRAIN

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Flight ID: 2020124I1

Time Off: 1330 Z

Time On: 1824

A/C - Takeoff

Wx Station - Takeoff

A/C - Land

Wx Station - Land

Pressure

1021.3 / 1022.1

1021.2 130.15

994.7 129.89

Number

Data Disposition / Date / Quality

Flight Level Tapes

Radar Tapes

Cloud Physics Tapes / CDs

Video Tapes

Dropsondes

Good: Bad:

AXBT

AXCP

AXCTD

Remarks:

44024
42.3 65.93 water temp 43.9F

44150 42.5 64.02 43.5

170 PM 1021.3 MCF 1255 CALM 15/15 3015
PM 2 1022.1

17.5G 21.4 1730Z over 2nd buoy
1713 over 1st buoy

90° wedge

WMM

H0035 not getting sent

data still sparsely populated + gets more sparsely pop as time goes on
Screen 800

no PACT or TAN 1/2/3

Screen 802

no PACT DUAL or MIXR



N43RF ERROR SUMMARY
Ocean Winds Winter, KMCF - CYHZ
24 Jan 2012, Transit plus 1 hour at bouy



Flight ID: 20120124I1

Sensor or system

Inertial Selected (for wind derivation)
Accelerometer
Temperature Probe
Dew Point Probe
Static Pressure
Dynamic Pressure
Altitude (for vertical wind)
Flight Directory
Constants File

Number or Name

INE 1
AccZfilterI-GPS.1
TTM.1
TDM.2X
PSM.2
PQM.2
AltI-GPS.1
acdata/MET/2012/20120124I1
20120124I1/AAMPSCConfig/core/n43.xml

Local Met Data:

Aircraft Static Pressure
Tower Pressure (corrected)

Takeoff (1330Z)

1022.1 mb
1021.2 mb

Landing (1824Z)

994.7 mb
995.4 mb

Notes:

There were no data gaps.

Radome variables PQM.4, PTR, PDApha.2, and PDBeta.2 are all intermittently erroneous while the radome was iced over from icing conditions from 172530Z – 180435Z. PQM.2, PDApha.1 and PDBeta.1 from the fuselage are all default.

Dewpointer #2, TDM.2 (Edgetech) performed best, but exhibited one erroneous spike at the bottom of a descent, while TDM.1, the Buck, did not. Because of this, TDM.2 was replaced with TDM.1 using a direct substitution from 171241Z – 171324Z, so TDM.2X is default. Dewpoint values intermittently exceeded ambient temperature values during portions of flight where the aircraft was in precipitation, causing RH values greater than 100%.

SPECIAL NOTE!!! 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.

All other AOC instruments worked properly.
There were 0 expendables released from the aircraft.

Flight Director:
Phone #:

Jess Williams Barry Damiano
(813) 828-3310 ext. 3140/3073

Mission:

(what/who/storm/time/expendables)

transit to Halifax OW last hr science mission
 10kft RA overfly log 44024 or 44150

General Synoptic Overview:

(type of low, intensifying, storm cat, strength etc)

Low P sy off coast

cold front dyn weakening but over gulf strm fire up

Local Takeoff Wx

(metar, or taf if t/o delayed, climb out turb/ice/clouds)

Winds ~~20kft~~ 20kft SCT 090 BKN 050
 IIRB

Transit weather to IP

(cloud cvrg type and bases/tops, freezing level -icing, winds, turbulence, pcpn type movement coverage, intensity and tops)

pcpn tops 320

02ML Md+
 mixed

090-FL180 thru 212

winds 20kft ↑ 40 w bang SW ↑ 70
 more tail further

FZLVL 070

Mission Weather

(cloud cvrg, type and bases/tops, freezing level, icing levels and type, winds, pcpn type movement coverage, intensity and tops, boundary layer, surface wind speed and fetch, Sea Salt prob)

Transit wx back home

(if changes to 4 since time is later say, if not same as above)

Landing Weather

(taf, significant snow/rain expected?, significant winds, landing turb/ice)

goes out fl 127 170 15 25kt P/2 SM P-RA RG over 802
 + RA bang Lst 21015kt 15M -07 BR OVCCOY

VA, SS, Turb overview, Ice overview

→ neg cloud bang PBL 3k winds < 40kts

alternates
 - Bangar