

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

Flt ID: 202020311	From: CYH2	To: CYH2
Flt. No: 12 -	Blk In: 2148 z	Time On: 2140 z
ETD:	Blk Out: 1439 z	Time Off: 1447 z
ETE: 6 + 00	Blk Time: + 7.2 Hrs	Flt Time: + 6.9 Hrs
Sponsoring Org: NESDIS	Program: oww	Purpose:

AOC Flight Crew

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

Participating Scientists / Visitors

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

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

Recco Times

Fix # Fix Time

Storm Name:

Mission ID: WXWLA RAN

(See reverse for additional remarks)

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Flight ID: 20120203I1

Time Off: 1447

Time On: 2140

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	PS2=1001.2, PSI=999	1000.8 30.07	PS2 100.4 PS3=1003	1000.6

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes	21	Good: 21 Bad: 0
AXBT	4	1 bad
AXCP		
AXCTD		

Remarks:

1/0 147 36013620 UNL -SLTSN 020016 3007

CYH2 145m

212 = 3005

222 = 3007



N43RF ERROR SUMMARY

Ocean Winds Winter, CYHZ - CYHZ

03 Feb 2012



Flight ID: 20120203I1

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.1X
acdata/MET/2012/20120203I1
20120203I1/AAMPSConfig/core/n43.xml

Local Met Data:

Aircraft Static Pressure (PSM.2)
Tower Pressure (corrected)

Takeoff (1447Z)

1001.2 mb
1000.8 mb

Landing (2140Z)

1003.0 mb
1000.6 mb

Notes:

There were no data gaps.

AltI-GPS.1 drifts slightly from the rest of the altitude sources from 145111Z – 152335Z but performs best for the remainder of the flight. During this time AltI-GPS.1 was replaced with AltI-GPS.2 using AltI-GPS.1X = AltI-GPS.2. AltGPS.1 and 2 both exhibit a handful of spikes throughout the flight, AltI-GPS.1X is default.

Dew point sensor 2, TdM.2 (EdgeTech) performed best, but exhibited higher spikes during the following time periods: 161745Z - 161951Z, 163611Z – 164622Z, where TdM.2X = TdM.1 + 0. Dew point values intermittently exceeded ambient temperature values during portions of flight where the aircraft was in precipitation, causing RH values greater than 100%.

Radome variables PQM.4, PTR, PDAAlpha.2, PDBeta.2 are all erroneous while the radome was iced over during the following times: 1551Z – 1625Z and 2039Z through the end of the flight. PQM.2, PDAAlpha and PDBeta # 1 are all default.

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 21 GPS dropsondes, and 4 AXBT's deployed from the aircraft internally.

Flight Director:
Phone #:

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

CYH7 = 145m elev.

20120203 I 1

+10 1447 - 21402

AltGPS. 1 + 2 at from 145949 - 150358, 152016 - 1523212

AltGPS. 2 out km 145949 - 150408

use AltGPS. 1 - GPS. 2

AltGPS. 1 - drifts km 1450207 - 1523502,

cont use .1

- AltGPS. 1's are the same

Radome freeze 15512 - 16252, 20392 - 1and

(PQM.4) PTR, PDA2 PDB2 161951 163611 - 164622

TDM # 22 ~~161809 - 161820~~ 161245 ~~163223 - 163835~~, 171402

TDM spikes 2 h. 164352 - 1646002, 171331 - 171341

TPL in old or ppm goes out

AltGPS. 2 → 1 1451112 - 152335

- PLAB bens recorded diff than AVAPSPCAB?

1530

Mission:

(what/who/storm/time/expendables)

General Synoptic Overview:

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

Local Takeoff Wx

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

35012022 SCT 015

Transit weather to IP

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

SCT-BKN 025-060
NST OR ICE OR PCPN SC

TML WIND 20kt

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), duration
500 NM

INT EMBTS TOP PL350 MOV ENE 25kt

PCPN 22
GVC 025-200

FZLV 025-100

Transit wx back home

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

LGT ~~SC~~ TURB

OCNL MOD MIXED ICE

FZLV ↑ 160

BL ↑ 4500ft

2100-

Landing Weather

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

35012 NSW

VA, SS, Turb overview, Ice overview