

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

Flt ID: 2012013171	From: CYH2	To: CYH2
Flt. No: 12 -	Blk In: 1916 z	Time On: 1909 z
ETD: 142	Blk Out: 1403 z	Time Off: 1420 z
ETE: 4.00	Blk Time: + 5.2 Hrs	Flt Time: 4.49 Hrs 4.8
Sponsoring Org: NESDIS	Program: OWW	Purpose: high winds

AOC Flight Crew

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

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
CHANG, PAUL	PI	NESDIS
JELENAIK, ZORUNA	SCI	NESDIS
SAPP, JOE	SCI	UMASS
BANCER, MICHA	SCI	NESDIS

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

Recco Times

Fix # Fix Time

Storm Name:

Mission ID:

Wxwka TRAIN

(See reverse for additional remarks)

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Flight ID: 2012013111 Time Off: 1420 Time On:

A/C - Takeoff Wx Station - Takeoff A/C - Land Wx Station - Land

Pressure 1=1004 2=1006 1004.8 PSM1=1003.8
2=1005.4 1004.2

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes	4	Good: 4 Bad: 0
AXBT	2	1 Good 1 bad
AXCP		
AXCTD		

Remarks:

PSM1 +12 2-2.5mb apart

A3019

3017



N43RF ERROR SUMMARY
Ocean Winds Winter, CYHZ - CYHZ
31 Jan 2012



Flight ID: 20120131I1

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.2
PSM.2
PQM.2
AltI-GPS.1
acdata/MET/2012/20120131I1
20120131I1/AAMPSCfg/core/n43.xml

Local Met Data:

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

Takeoff (1420Z)

1006.5 mb
1004.8 mb

Landing (1909Z)

1005.3 mb
1004.2 mb

Notes:

There were data gaps from 174744Z – 175130Z, 175615Z – 175759Z, 180208Z – 180443Z and 182134Z – 182356Z due to trouble shooting the data system.

During each data gap ground speed in the X Y and Z direction displayed erroneous data which flat lined well below the correct values, this caused spikes in vertical winds. These were fixed using the following substitution for GSXI-GPS.1, GSYI-GPS.1, and GSZI-GPS.1: GSXI-GPS.1X = GSXI-GPS.2 + offset of the erroneous data, and the same for Y and Z ground speed.

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 4 GPS dropsondes, and 2 AXBT's deployed from the aircraft internally.

Flight Director:
Phone #:

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

2020131

1420 - 1909z

Gaps 130032-13034

174744 - 175130

175615z - 175759z

180208z - 180443z

182134z - 182356z

	T76	LND
Station	1004.8	1004.2
PS1	1004.1	1004.1
PS2	1006.5	1005.3
PLAB	1007.7	1007.25

AHRA 1 + 2.c are different Now

Lat/Lon GPS.1 only spike 154135-154138

LWC (ml) still in volts

70

spikes uW2 ← uW7 ←

GS2ref GS21-GPS

GS41-GPS

-12.48, 4

X, Y, Z

175038 - -624.2

175137

175657 - 175807

180351 - 180450

182304 - 182403

+22.1, 1150.7, 1249.00, 624.279

1152.4, 1248, 623.98

1150.6, 1248.2, 624.1

1126.2, 1250.4, 622.75

GS2ref 1824

0.98988

0.08226

7.20532

0.28

1618Z - OSCAT

LS combo

Mission:

(what/who/storm/time/expendables)

OWN back side of low P sys
LS Sides BT's

ASCAT 1442

2-3 cycles
no more than 200
bank

General Synoptic Overview:

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

occluded

Local Takeoff Wx

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

NW 10kt UCL few 030

Transit weather to IP

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

C - BKN Sable S.C. NO ice turb PCP
W - WNW 30-50kt
5K

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)

5-7/c sfc winds < 50 kts

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)

NW 10kt UCL few 030

VA, SS, Turb overview, Ice overview

dt, 3

2612 0131 I 1

Peak (digital display)

DOOR

Time	Peak (digital display)	DOOR
130010Z		
130010Z	1005.1	open
130620Z	1005.2	open
130740Z	1005.2	open
132000Z	1005.4	closed
132825	1005.5	closed
133600Z	1005.5	open
134606Z	1005.5	open
134700Z	1005.7	closed
134730Z	1005.5	open
134900Z	1005.4	ladder up open
134920Z	1007.6	closed
135100Z	1008.6	closed
135515Z	1009.5	4 engine start
135925Z	1007.5	all 4 engines running
140530	1007.1	Taping

~ 161140Z

767.4

free fall chute open ~~after~~
 left open after drop (Terry L.)