

Processing required?: Yes

U.S. DOC / NMAO / NOAA / AOC

HD?: Yes

hurricane penetrations

Flight ID: 100123I

From:

CYYT

To:

CYYT

0

Flight No: 10-012

In HH MM

03 32

On_Hour

03 24

Task Codes

charge to

hours

PND

5.6

ETD: 2100

Out HH MM

21 56

Off_Hour

22 10

ETE: 5+00

Block
time:

5.6

Flight Time

5.2

Sponsor NESDIS

Program:

OW2010

Purpose: IWRAP

AOC FLIGHT CREW

Aircraft Commander: Girimonte Al

Co-Pilot: Martin Kathy

Navigator: Sloan Chris

Bishop Joe

FE: Darby Paul

Bast Greg

FD: Sears Ian

Damiano A. Barry

Avionics: Bosko Joe

Data System: Naeher Dana

AVAPS: Olney Bill

System Engineer: Hill John

AA 1:

AA 2:

Crew Chief:

Other AOC:

Participating Scientist / Visitor

guests

Chang Paul

Jelenak Zorana

Sapp, Joe

activity:

PI

Scientist

Scientist

affiliation 1:

NESDIS

NESDIS

UMASS

Remarks

Mission ID: wxwxa

Storm Name:

TRAIN

CYYT 232200Z 34010G18KT 3SM -SHSN DRSN OVC018 M08/M11 A2959 RMK SC8 SLP03

CYYT 240300Z 36010KT 12SM -SHSN BKN018 BKN042 M09/M13 A2965 RMK SC6SC2 SLP051

Hit a very strong squall line during this flight

U.S. DOC / NMAO / NOAA / AOC

Flight ID: 100123I

On_Hour: 03 24 Off_Hour: 22 10

A/C Takeoff press:

WX Station takeoff press:

A/C Land press:

WX Station Land Pres

Pressure 984.5

985.5

987.8

987.5

Data Source Number Data Disposition / Quality

Flight level
tapes:

2

Radar tapes:

1

cloud physics
tapes/cds:

video tapes:

Expendables

Charge To

good

bad

total

Sent

Messages

Expendables	Charge to	# good	# bad	Total	Sent Message
axbt	PND	1	2	3	0 100123I
dropsonde	PND	5	0	5	0 100123I

Remarks

N43RF ERROR SUMMARY

Ocean Winds 2010

Mission Flight 1



Flight ID: 100123I

<u>Sensor or system</u>	<u>Number or Name</u>
INE (for wind derivation)	INE1
Accelerometer	ACC1
Temperature Probe	TT1
Dew Point Probe	TDM2 (EDGETECH)
Static Pressure	PSFX
Dynamic Pressure	PQF2
Vert. Wind	ALTI1X
Constants File	n43_hur09v2.adc
Project Directory	/acdata/2010/ow10/

Notes:

In the .nc files, the date, nor the time rolled over at midnight. Therefore times beginning with hour 24 correspond with 00Z, 25 with 01Z, 26 with 02Z, etc. i.e. 251411Z=011411Z

There was a data gap from 011411Z – 011419Z. Some parameters at the point data resumed needed correcting at 011420Z. The parameters ALTI1, GSUI1, GSVI1, LATI1, and LONI1 were modified substituting values. The substitution equations follow:

$$\text{ALTI1X} = \text{ALTNVL} - 7.5$$

$$\text{GSUI1X} = \text{GSUI2} + .32$$

$$\text{GSVI1x} = \text{GSVI2} + 1.4$$

$$\text{LATI1x} = \text{LATI2} + .42$$

$$\text{LONI1x} = \text{LONI2} - .372$$

The fuselage static pressure had two occurrences where the value was unstable in relation to other pressure sources. One occurrence was modified substituting values from the wingtip static pressure from 222140Z – 223330Z using the equation $PSFX = PSW + 4.4$. The other occurrence was modified substituting values from the wingtip static pressure from 231220Z – 231230Z using the equation $PSFX = PSW + 4.2$.

There were 5 total dropsondes deployed, 5 were good, 0 failed, and 0 were questionable.

There were 3 total AXBTs deployed, 1 was good, 2 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.

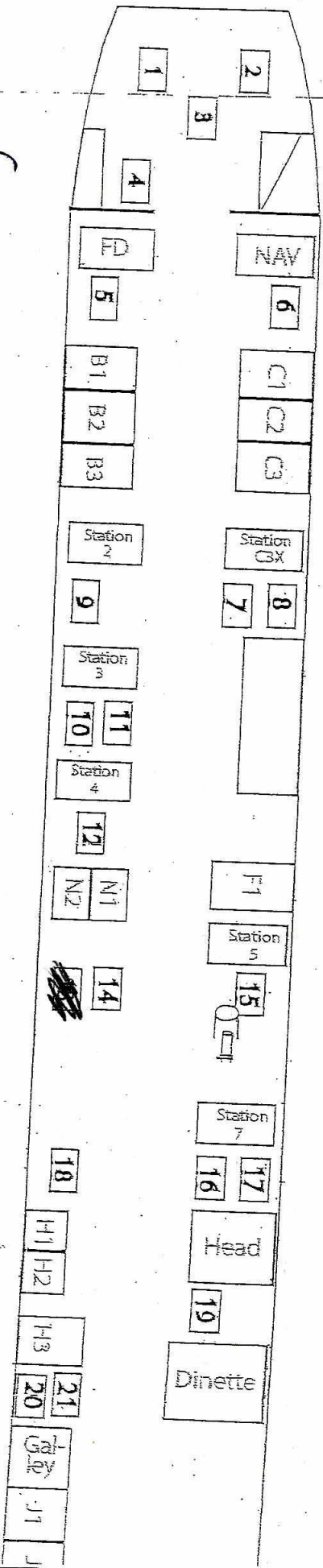
SPECIAL NOTE!!! The variable names dpj_wgs, dpj_was, and dpj_wz in the netCDF file represent vertical ground, vertical air, and vertical wind speeds respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

	Takeoff 2210Z	Landing 0324Z
Aircraft Static Pressure	984.5mb	987.8mb
Corrected Tower Pressure	985.5mb	987.5mb
Flight Director:	A. Barry Damiano/ Ian Sears	(813) 828-3310 ext. 3073/3039

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NOAA AIRCRAFT OPERATIONS CENTER

Flight ID 106123I



1. GIRIMONTA
PILOT

2. MARTIN
COPILOT

3. DARBY
FLIGHT ENGINEER

4. CHAND
STATION 1

5. SEARS
FLIGHT DIRECTOR

6. SCODAN
NAVIGATOR

7. DAMIANO
STATION C3X

8. BISHOP
STATION C3X

9. McFADDEN
STATION 2

10. MILLER
STATION 3

11. HILL
STATION 3

12. NAEHER
STATION 4

13. PROJECT SEAT

14. BOSKE
PROJECT SEAT

15. OLNEY
STATION 5

16. SELENKA
STATION 7

17. SAPP
STATION 7

18. BABY
STATION 8

19. DINETTE

20. GALLEY

21. GALLEY

