

Amateur Radio Station National Hurricane Center



35 Years of Public Service

Our achievements are the results of many dedicated volunteer individuals working together. We are grateful for your participation and commitment to the Humanitarian Goals of the WX4NHC team.

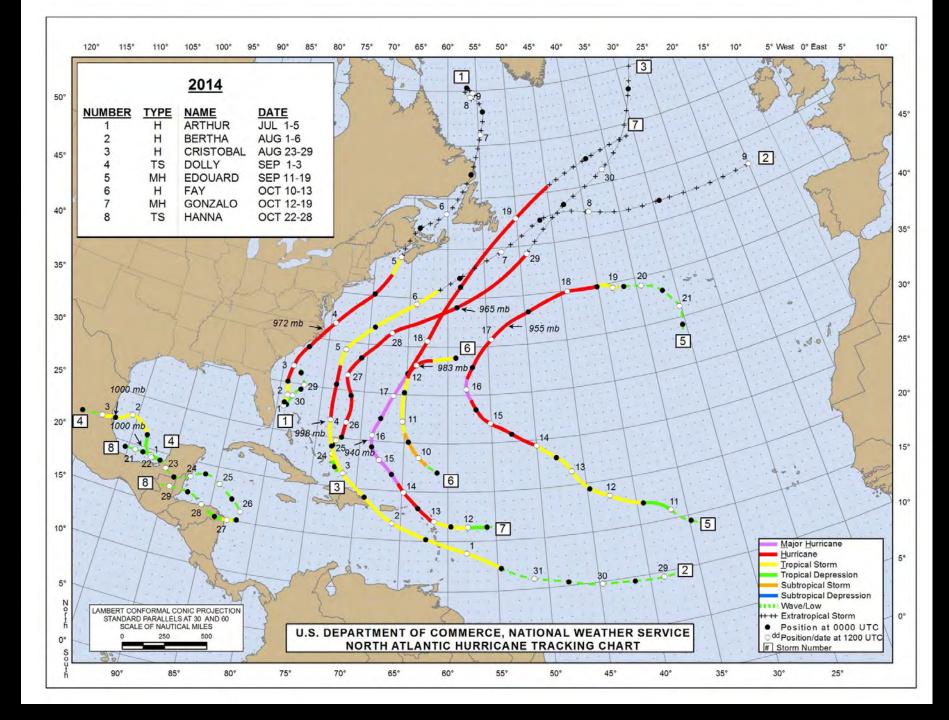
Our Mission - to help save lives.

John MEHagh KAAG NIIC Amateur Radio Coordinator Julia Repoll WD4R



Are now on You Tube.com Search for WX4NHC









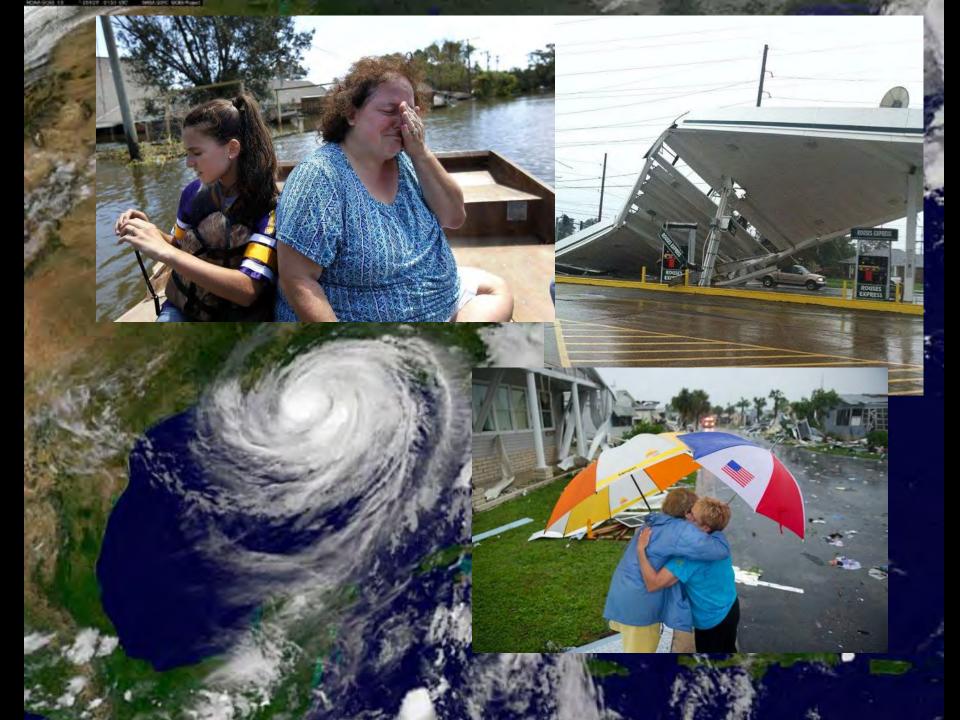








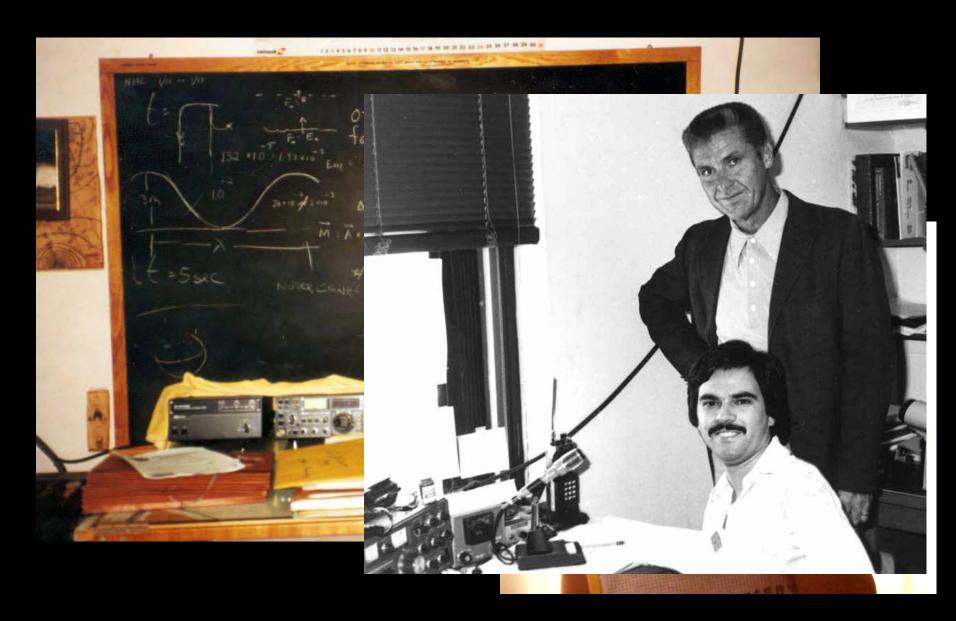








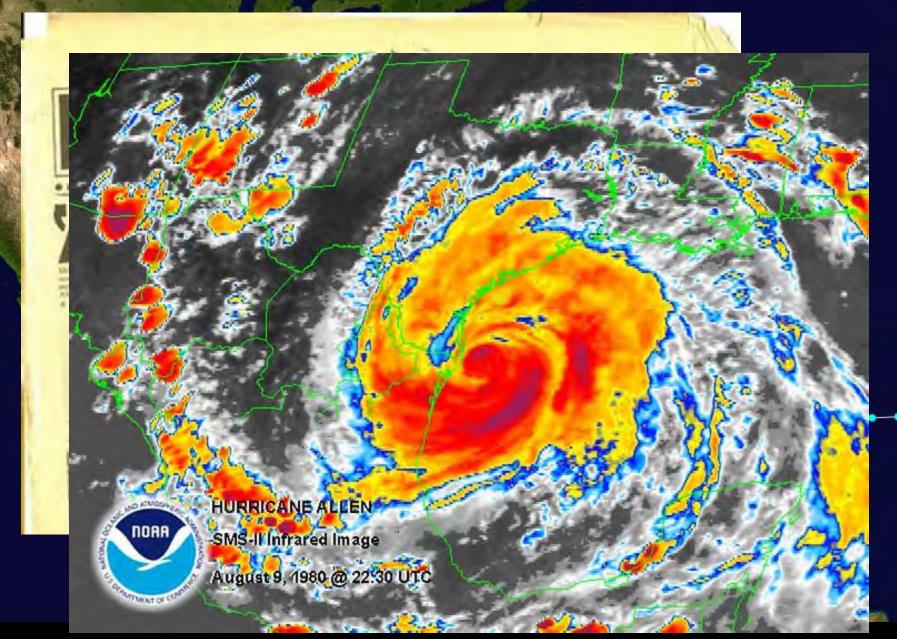
1980 NHC on 6th Floor of the Gables One Tower
Notice it was the only floor with Hurricane shutters!



NHC Ham Station 1980's



The 1980's



Hurricane Allen 1980

AMATEUR RADIO STATION - WX4NHC



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Date:

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AMATEUR RADIO STATION - WX4NHC

NATIONAL HURRICANE CENTER

SURFACE WEATHER REPORT

Humbanes KATRINA

Reporting Station Callsign:	W5SLA -	
Geographic Location:	HWSFO - S	LIDELL
Location (Latitude/Longitude):	North	West
Date: 8-29-05 Tir	ne of Observation:	(Z) (GMT)
Wind Speed:	☐ mph ☐ knc	The second contract of the second
Wind Gust:	□ mph □ knd	ots
Wind Direction:		
Barometric Pressure:	│ □ Inches □ m	illibars
Additional Comments:		SLIDELL & RA
DIRECTOR: POUL TRAL	TOR:	
STOFF ON PUTY = (4	1)-ALL OK.	
	H) = ALL OUT OF TO	WH
ON EMERGIGEN PW	R. , AWIPS DISH = 0	K, NO Comm
	7	
CAH WALK OUT OF	DUILDING - CAN 170	DEIDE DI
PUE TO TREES POWN		
PUE TO TREES POWN	+ PLOODING BY ROADS	
PUE TO TREES POWN	\$ FLOODING ON PODDS LA FOYETTE POSSED ON -	

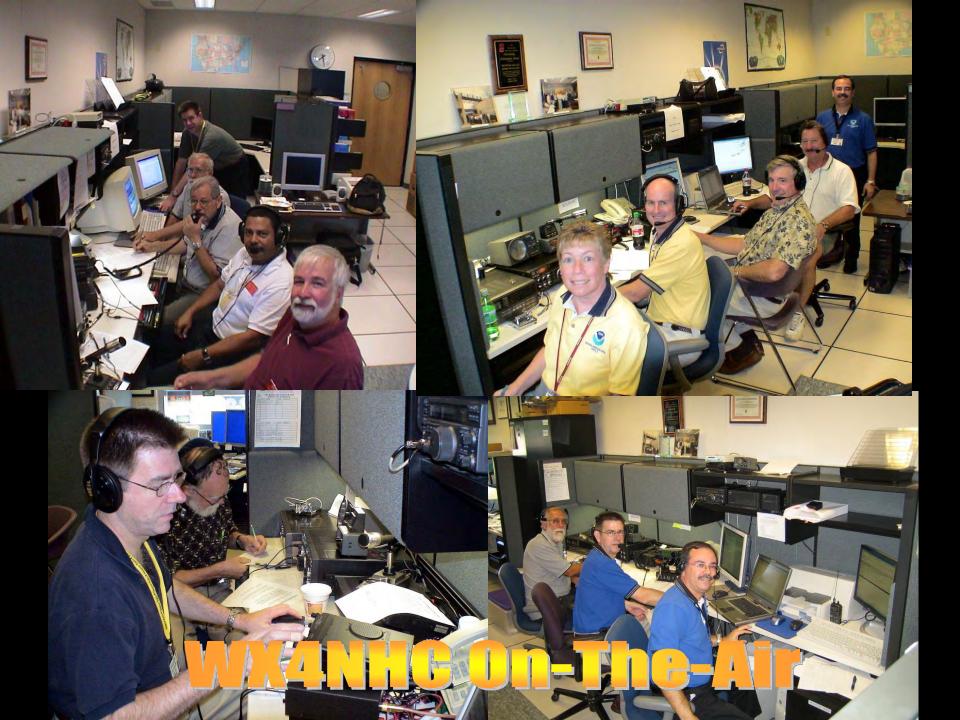


Hurricane Katrina









Dr. Richard Knabb, NHC Director



nbc6.net

South Florida 'Dinosaurs' Offer Help To Hurricane Victims

Ham Radio Operators Link Victims To U.S.

POSTED: 8:00 a.m. EDT October 2, 2002 UPDATED: 8:11 a.m. EDT October 2, 2002

MIAMI -- Ham radios, now considered dinosaurs in the world of communication, provide a way to talk with people in the heart of a natural disaster when all else fails.



There are currently 42 operators at the National Hurricane Center who volunteer their time when a storm strikes.

Once they establish radio contact, they take to the phones to contact people in the U.S. and let them know how their loved ones are doing.

Operators are in the storm center now getting reports from Cuba as it recovers from Hurricane Lili. The strengthened storm roared across the western part of the island, forcing thousands from their homes. There are no reports of any deaths so far.

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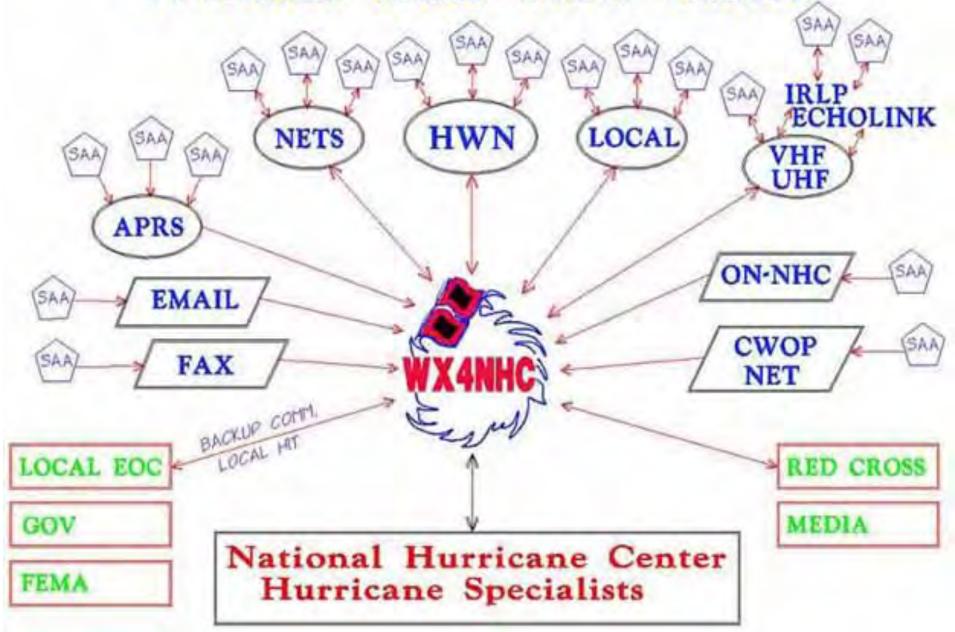


Purpose and Goals

- 1. Collect weather data "Surface Reports" from the Hurricane affected areas in real time for use by the Hurricane Forecasters.
- 2. Provide back-up emergency communications to and from the Hurricane Center during and after a direct hit on Miami.
- 3. Provide Hurricane Advisories over Ham Radio, when other sources are not available to the affected area.
- 4. Enhance and promote the accuracy and availability of weather data surface reports.

Our Mission – to help save lives.

Amateur Radio WX4NHC Weather Data Flow Chart



How to contact WX4NHC

Amateur Radio HF Frequencies - (single sideband mode)

20 meters: 14.325 MHz **Hurricane Watch Net** (Main frequency during Hurricanes) 40 meters: 7.268 MHz Water Way Net (secondary frequency) Maritime Mobiles Net

80 meters: 3.815 MHz Caribbean Net, (Alternates: 3.950: North Florida / 3.940 South Florida)

Amateur Radio EchoLink and IRLP Modes

EchoLink VoIP Hurricane Net on WX-Talk Conference (Node 7203) IRLP Reflector Node 9219

Amateur Radio VHF/UHF Frequencies

VHF: 147.470 MHz simplex - Coordination frequency for NHC ops. (official use only, please)

VHF: 147.000/146.400 repeater (Dade Radio Club)

UHF: 444.600/449.600 repeater (K4AG/WX4NHC on FIU Campus)

APRS mode Frequencies

HF: 30 meters: 10.151 MHz (LSB) VHF: 2 meters: 144.390 MHz simplex

Internet Home Page: www.wx4nhc.org

Online Hurricane Weather Report Form (stations in affected area only)

Email: wx4nhc@wx4nhc.org

Amateur Radio Coordinator:

John McHugh, K4AG Email: K4AG@arrl.net

Amateur Radio Asst. Coordinator:

Julio Ripoll, WD4R Email: WD4R@arrl.net



The Hurricane Watch Net

Serving the National Hurricane Center since 1965

HF 14.325 MHz

www.HWN.org

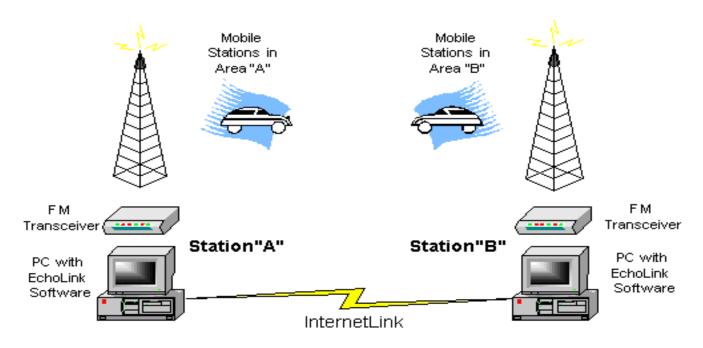
VoIP Hurricane Net

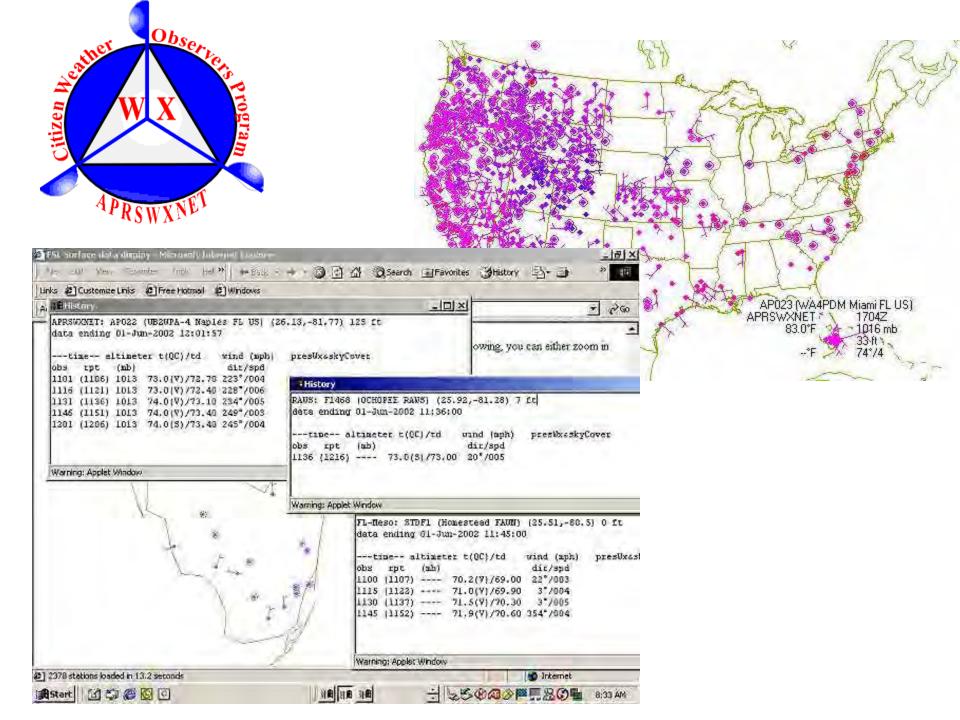
(EchoLink WX_Talk, 7203 + IRLP 9219)

www.voipwx.net

Rob Macedo – KD1CY, Director

Linking Example





Hurricane Surface Reports:

Examples & Forms Used at WX4NHC

Online Hurricane Weather Report Form

Amateur Radio Operators and Volunteer Weather Observers within 300 miles of a hurricane are asked to send information listed on this hurricane report form to the National Hurricane Center.

SAFETY FIRST! Please do NOT put yourself in any danger trying to collect information.

Please be sure to indicate if the information is Measured or Estimated

Please report only winds over 35mph or significant weather events.

Reporting Station :		(Amateur Radio Callsign or First & Last name)
Email Address:		
Phone: (ar	ea code) + number	
Geographic Location:		
Address:		
City:	State:	Zip:
Country:		
Location (Latitude/Long	gitude): N	w
Date of Observation: mo	nth <u> </u>	
Time of Observation:	GMT UTC (Z) ▼	
(GMT - Greenwich Meai	n Time is prefered) (a	also known as Zulu or UTC)
6,		
Please indicate if your Indicate if Measured or	and the second s	are measured with weather instruments or estimated.
Sustained Wind Speed:	мрн 💌	
(One minute)		
Gust Speed: MPH		
Wind Direction: Dir 🔻	Degrees	
Barometric Pressure:	Millibars 🔻	
must be attained using		The second secon



AMATEUR RADIO STATION – WX4NHC AT THE NATIONAL HURRICANE CENTER

WEATHER SURFACE REPORT Hurricane:

Geographic Location (city, state, co		
Distance from ocean:	Height above sea level:	
GPS Location: (Latitude/Longitude):	North /	Wes
Date: Observation Tim	e: GMT LO	CAL
WIND SPEED: [SUSTAINED ONE MINUTE)	ESTIMATED MEASURE	
GUST WIND SPEED: [WIND DIRECTION:	MPH KNOTS/H KI	LOMTR/H
CALIBRATED TO SEA LEVEL?	FALLING RISING	
Surface Observations: Flooding, sea	level storm surge, Rain amount, Damag	ge Report.
Surface Observations: Flooding, sea	level storm surge, Rain amount, Damag	ge Report.
Surface Observations: Flooding, sea	level storm surge, Rain amount, Damag	ge Report.

Our Mission – to help save lives www.wx4nhc.org



WX4NHC Amateur Radio Surface Report

HURRICANE RITA

Date: SEP 24 2005 07:15 AM CDT

Callsign: WM6V "Flo",

Livingston Memorial Hospital

Location: Livingston, Texas

Comments:

Hospital:

Doors at Emergency Room Entrance have blown-in.

School:

Roof was lifted off of the Timber Creek Primary School cafeteria building.

This school is being used as a hurricane shelter with 280 people.

No injuries reported or assistance requested at this time.

Building is one story. Roof is a flat type roof.

Received from the VoIP Hurricane Net

Sub_NC : Rob-KD1CY

Email: rmacedo@rcn.com

Reported by a Ham Radio operator, "Flo" at the Hospital that was in communications with local Ham Operators on VHF.

Flo was using a small VHF Radio on emergency power in the Hospital and was able to relay reports to NHC in Miami via a VHF Repeater that was connected to IRLP/Echolink Internet Linking service.



WX4NHC Amateur Radio Surface Report

HURRICANE OPHELIA

Reporting Weather Volunteer Observer: K4JVP, John Van Pelt "Storm Study Team"

Geographic Location Atlantic Beach, NC





WX4NHC Amateur Radio Surface Report

HURRICANE RITA





WX4NHC Amateur Radio Surface Report

TS Cindy

Online Surface Weather Report Submission from: Amateur Radio Operator KC4MQU Robert Mills, KC4MQU@yahoo.com, Tel: -----Offshore platform ST-308 "Tranatula", 28.9.41 Deg. North / 90.13.40 Deg. West about 80 miles south of Louisiana.

Date of Observation: July 5, 2005 Observation Time: 1800 Central Wind Measurements: Measured Sustained Wind Speed: 60 MPH Gust Speed: 99.5 MPH Wind Direction: Dir 2 349 Degree

Wind Direction: Dir ? 349 Degrees Barometric Pressure: 994 Millibars

Comments:

It's the worst I have seen all day, now I am concerned.

Been a long day.

Thanks for letting us be a part of yours... the crew of "Tranatula" ST-308

Instrumentation Comments:

We are using an Extech mini-anemometer model 45118 and our large unit is a Young Instruments Model 05103. mounted approx 150 ft off sea level, adjacent to our heliport. Both units are new and installed by manufactures recommendations.

NHC Surface Weather Report

From: WB4QDX To: WX4NHC@WX4NHC.ORG

Hurricane	Zulu (WX4NHC Test)
Reporting Station Callsign	W4BEM Voice (D-STAR Net)
Geographic Location	Plantation, FL (Broward County EOC)
Latitude	26.124
Longitude	80.249
Date	31-May-2014
Time of Observation	7:32:41
Wind Speed	4
Units	MPH
Measurement	Measured
Wind Gust	0
Wind Direction	SE
Barometric Pressure	30.1
Pressure Units	Inches
Comments	84degrees Jim Broward Co EMA
Operator	Relayed by: WB4QDX John Davis (D-STAR/D-RATS)





National Weather Service Tropical Prediction Center National Hurricane Center

Tropical Cyclone Report

Hurricane Ivan

2 - 26 September 2004

Stacy R. Stewart
National Hurricane Center
16 December 2004
Revised: 6 January 2005

Ivan was a classical, long-lived Cape Verde hurricane that reached Category 5 strength three times on the Saffir-Simpson Hurricane Scale (SSHS). It was also the strongest hurricane on record that far south east of the Lesser Antilles. Ivan caused considerable damage and loss of life as it passed through the Caribbean Sea.

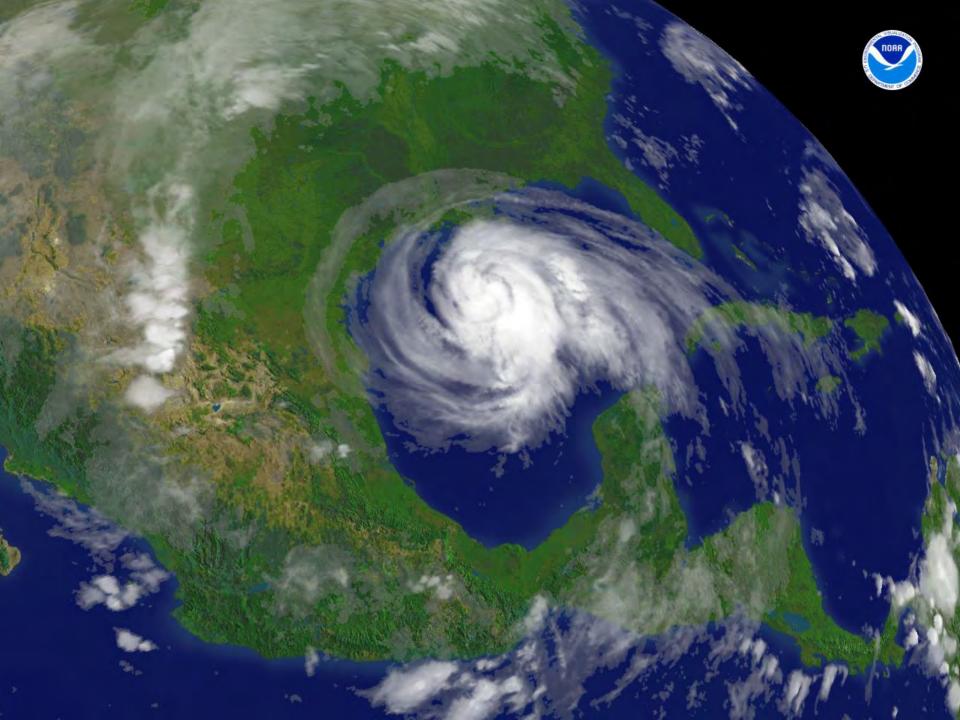
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Acknowledgments

NWS/WFOs Houston/Galveston, Huntsville, Jacksonville, Key West, Lake Charles, Mobile, New Orleans (Slidell), Tallahassee, and Tampa Bay, and the NOAA Hydrometeorological Prediction Center and the NOAA Southeast River Forecast Center contributed many of the observations contained in this report.

Amateur Radio (HAM) operators throughout the Caribbean region and those working as part of the National Hurricane Center's WX4NHC Hurricane Watch Net team (http://www.fiu.edu/orgs/w4ehw/) were indispensable in providing critical reports as Ivan moved through the Windward Islands and across the Caribbean Sea.

Full Report at this web address: http://www.tpc.ncep.noaa.gov/2004ivan.shtml







- Mission -Save Haiti



UNIVERSITY OF MIAMI
MILLER SCHOOL
of MEDICINE









DEVOTED ENTIRELY TO AMATEUR RADIO

April 2010

WWW.ARRL.ORG

AIR FORCE



Amateur Radio Communications Station

MILITARY AFFILIATE RADIO SYSTEM

QST reviews:

531 Alfrico DJ-G77 Tri-band Handheld Transceiver

561 Green Heron Engineering GH Everyware Wireless Cable

58 International Radio Roofing Filter for the IC-756PROIII

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Visit the ARRLWeb at www.arrl.org

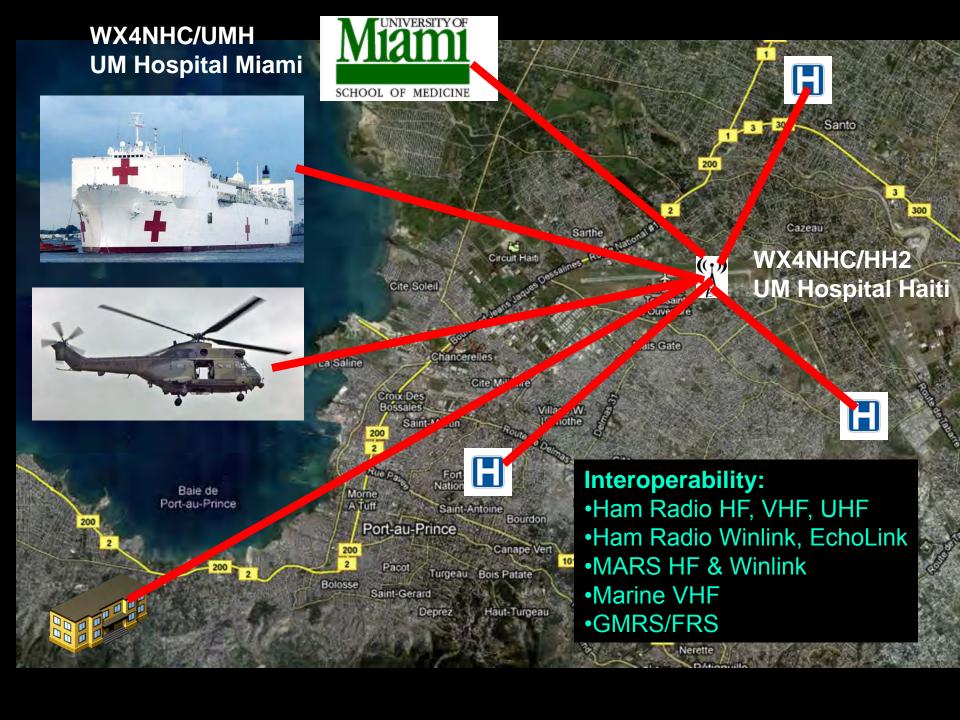
Hams Respond to Haiti Crists

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ARRL The national association for AMATEUR RADIO 14











Available on You Tube.com Search for WX4NHC



Port-au-Prince

Dominican Republic

Local



6:08 58









National Hurricane Center Amateur Radio Station

WX4NIIC







