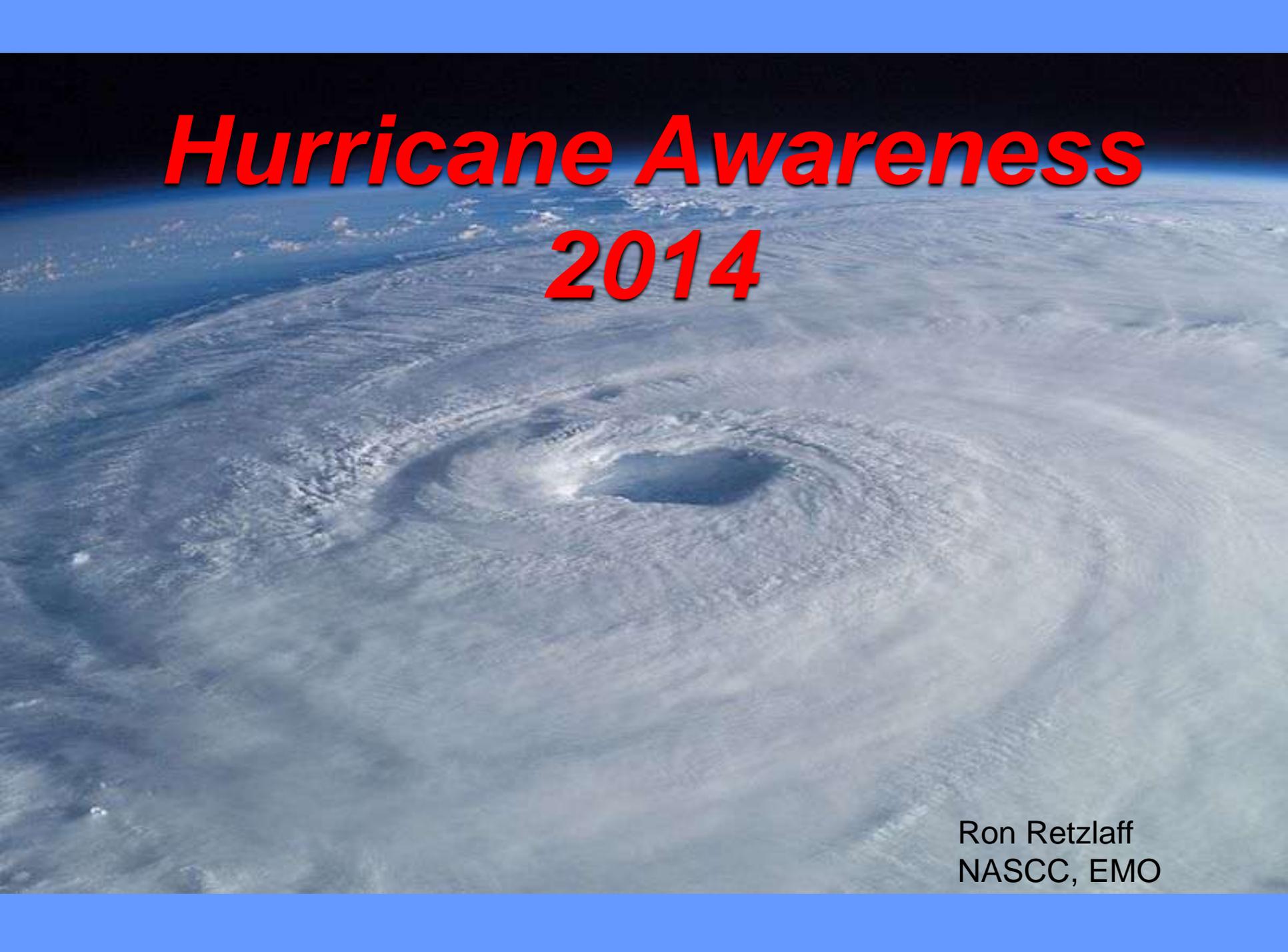


Hurricane Awareness 2014

A satellite image of a hurricane, showing a clear eye and spiral cloud bands over the ocean. The image is the background for the slide.

Ron Retzlaff
NASCC, EMO

When will a Hurricane hit Corpus Christi?

Port Lavaca
Rockport
Corpus Christi
Kingsville



2014 Hurricane (EARLY) Predictions

HURRICANE SEASON ATLANTIC BASIN

	ACCUWEATHER 2014 FORECAST	2013 NUMBERS	NOAA NORMAL
TROPICAL STORMS	10	14	12
HURRICANES	5	2	6
MAJOR HURRICANES	2	0	3



2013 Hurricane Predictions



HURRICANE SEASON ATLANTIC BASIN

	ACCUWEATHER 2013 FORECAST	2012 NUMBERS	NOAA NORMAL
TROPICAL STORMS	16	19	12
HURRICANES	8	10	6
MAJOR HURRICANES	4	1	3
U.S. LANDFALLS	3	4	2



2013 Predictions:

- 16 Named Hurricanes
- 8 Hurricanes
- 4 Major Hurricanes
- 3 Make Landfall

2013 Hurricane Season Actual

- 14 Named Hurricanes.
- 2 Hurricanes.
- 0 Major Hurricanes
- 0 Made Landfall

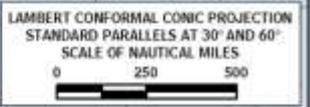
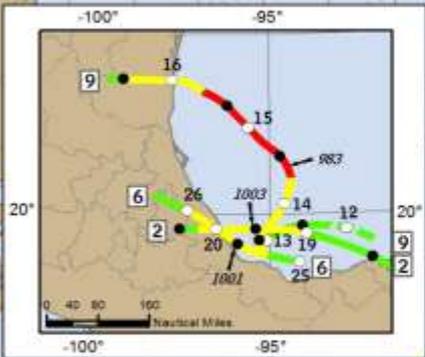
120° 115° 110° 105° 100° 95° 90° 85° 80° 75° 70° 65° 60° 55° 50° 45° 40° 35° 30° 25° 20° 15° 10° 5° West 0° East 5°

U.S. DEPARTMENT OF COMMERCE, NATIONAL WEATHER SERVICE
NORTH ATLANTIC HURRICANE TRACKING CHART

2013

NUMBER	TYPE	NAME	DATE
1	T	ANDREA	JUN 5-7
2	T	BARRY	JUN 17-20
3	T	CHANTAL	JUL 7-10
4	T	DORIAN	JUL 23-AUG 3
5	T	ERIN	AUG 15-18
6	T	FERNAND	AUG 25-26
7	T	GABRIELLE	SEP 4-13
8	H	HUMBERTO	SEP 8-19
9	H	INGRID	SEP 12-17
10	T	JERRY	SEP 29-OCT 3
11	T	KAREN	OCT 3-6
12	T	LORENZO	OCT 21-24
13	T	MELISSA	NOV 18-21
14	SS	UNNAMED	DEC 5-7

2013 season



NORTH
SOUTH

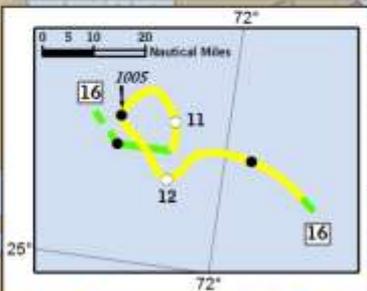
USA

120° 115° 110° 105° 100° 95° 90° 85° 80° 75° 70° 65° 60° 55° 50° 45° 40° 35° 30° 25° 20° 15° 10° 5° West 0° East 5°

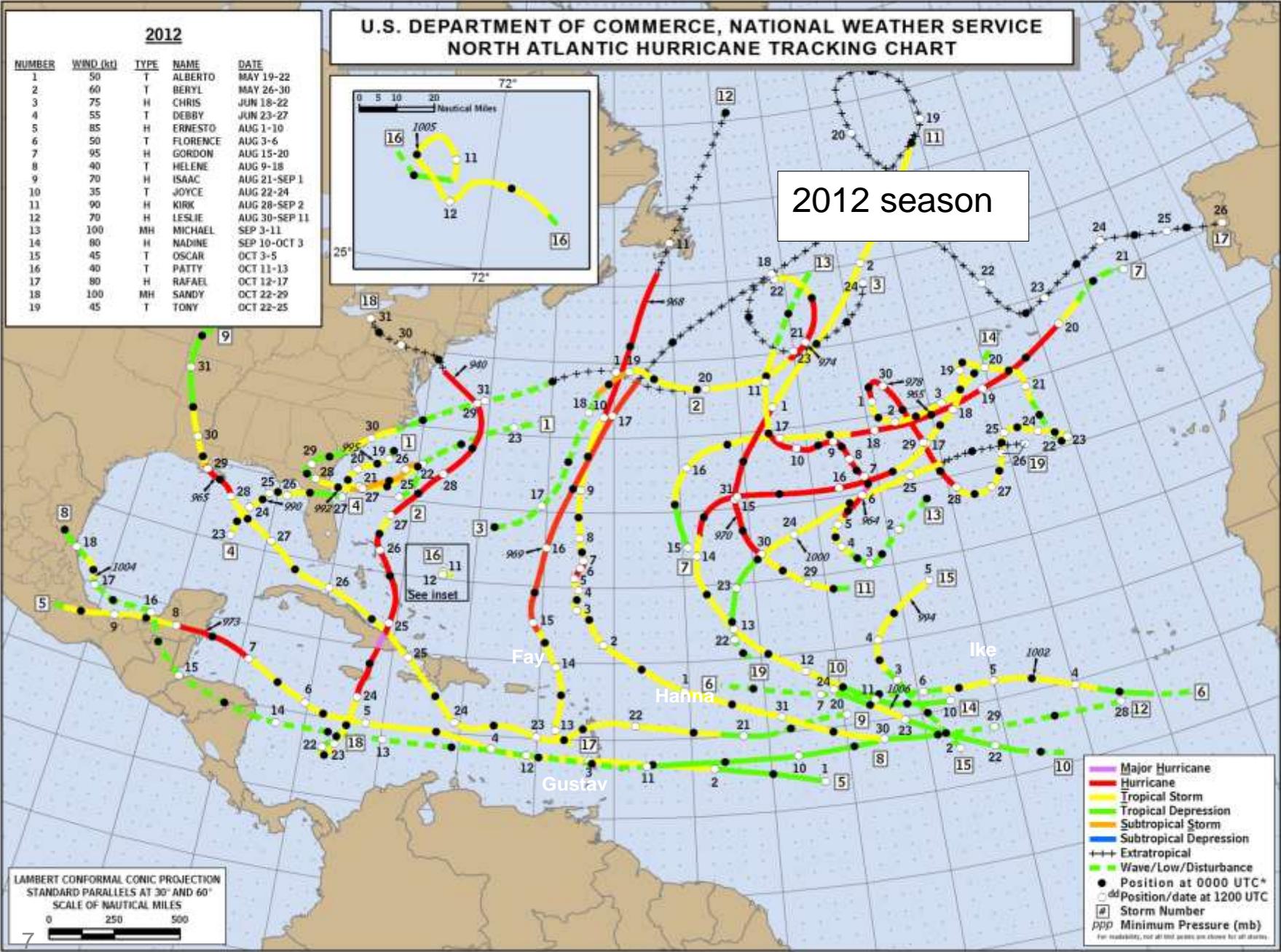
**U.S. DEPARTMENT OF COMMERCE, NATIONAL WEATHER SERVICE
NORTH ATLANTIC HURRICANE TRACKING CHART**

2012

NUMBER	WIND (kt)	TYPE	NAME	DATE
1	50	T	ALBERTO	MAY 19-22
2	60	T	BERYL	MAY 26-30
3	75	H	CHRIS	JUN 18-22
4	55	T	DEBBY	JUN 23-27
5	85	H	ERNESTO	AUG 1-10
6	50	T	FLORENCE	AUG 3-6
7	95	H	GORDON	AUG 15-20
8	40	T	HELENE	AUG 9-18
9	70	H	ISAAC	AUG 21-SEP 1
10	35	T	JOYCE	AUG 22-24
11	90	H	KIRK	AUG 28-SEP 2
12	70	H	LESLIE	AUG 30-SEP 11
13	100	MH	MICHAEL	SEP 3-11
14	80	H	NADINE	SEP 10-OCT 3
15	45	T	OSCAR	OCT 3-5
16	40	T	PATTY	OCT 11-13
17	80	H	RAFAEL	OCT 12-17
18	100	MH	SANDY	OCT 22-29
19	45	T	TONY	OCT 22-25



2012 season



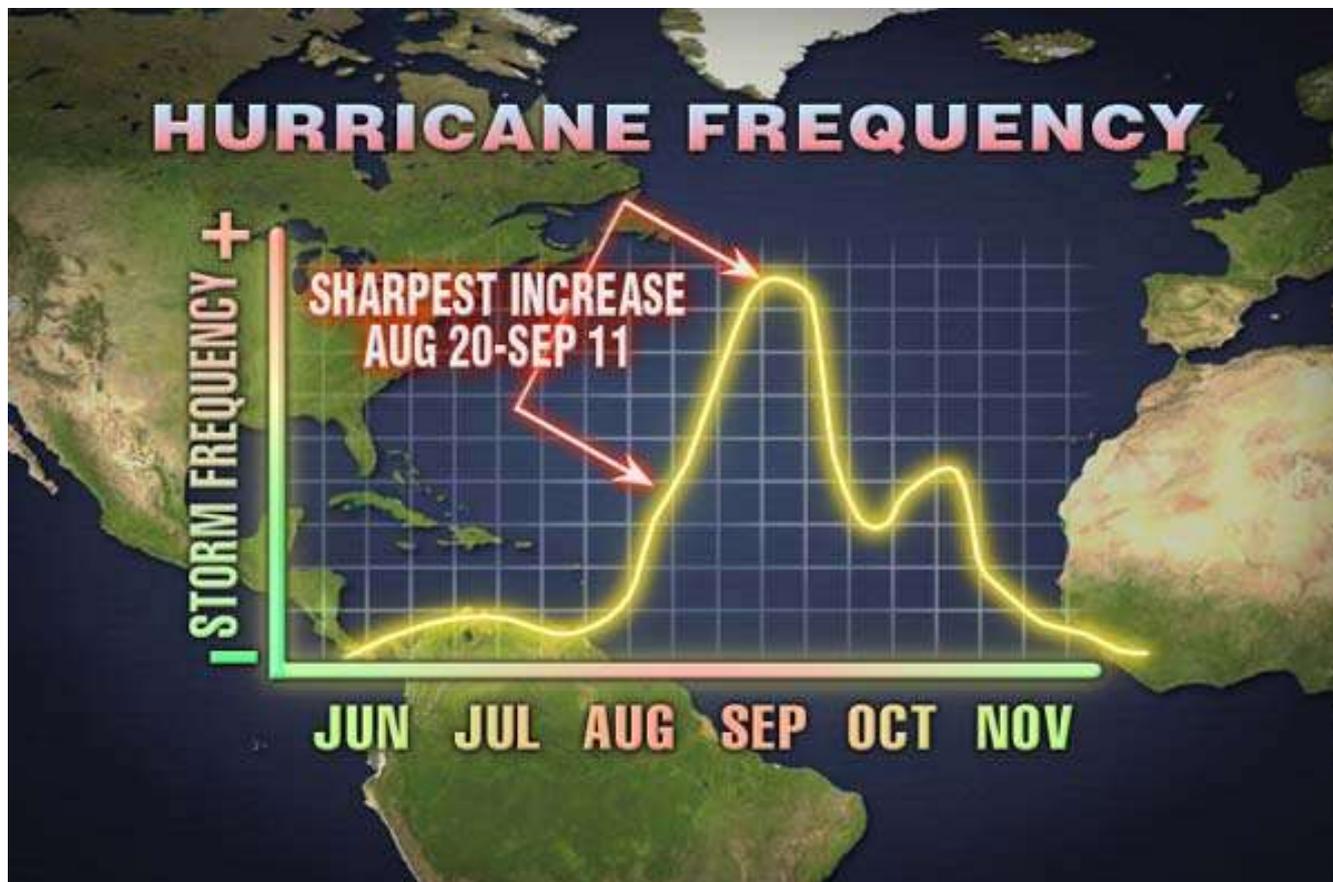
LAMBERT CONFORMAL CONIC PROJECTION
STANDARD PARALLELS AT 30° AND 60°
SCALE OF NAUTICAL MILES
0 250 500

— Major Hurricane
— Hurricane
— Tropical Storm
— Tropical Depression
— Subtropical Storm
— Subtropical Depression
- - - Extratropical
- - - Wave/Low/Disturbance
● Position at 0000 UTC*
○ Position/date at 1200 UTC
Storm Number
mb Minimum Pressure (mb)

*For readability, not all track points are shown for all storms.



Seasonal Peak





HISTORICAL DATA-LOCAL AREA



Hurricanes impacted the Coastal Bend in - 1874, 1886, 1886, 1912, 1913, 1916, 1919, 1945.

1970 - Aug 3 Hurricane Celia, gusts to 161mph

Killed 1

Injured 466

Caused \$1.8 billion damage total devastation

65,000 Families suffered losses in Texas.

8,950 homes were destroyed

13,850 homes were severely damaged

41,800 homes received minor damage

1998 - T.S. Charley was a direct hit with 60mph winds dumping very heavy rain which killed 14.

2010 – Not even a tropical storm, but simply a straight-line wind event caused considerable damage to NASCC.



HAZARDS ASSOCIATED WITH HURRICANES



Hurricane Ike
Category 3 Landfall
Surge: 12.8 Feet





Hurricane Categories

CAT 1 – minimal damage

Winds 74-95 MPH, (64-82 kts)

CAT 2 – moderate damage

Winds 96-110 MPH, (83-95 kts)

CAT 3 – extensive damage

Winds 111-130 MPH, (96-113 kts)

CAT 4 – extensive damage

Winds of 131-155 MPH, (114-135 kts)

CAT 5 – catastrophic damage

Winds above 155 MPH(>135 kts)



Cat 3 Storm Surge Simulation Aransas Pass Texas





Cat 3 Storm Surge Simulation Aransas Pass Texas





Cat 3 Storm Surge Simulation Aransas Pass Texas





Tropical Cyclone Conditions of Readiness (COR)



COR V

- No storm or destructive winds anticipated within 96 hours (Default condition throughout the hurricane season: June 1 through November 30)

COR IV

- Destructive winds of the force indicated are anticipated within 72 hours.

COR III

- Destructive winds of the force indicated are anticipated within 48 hours.

COR II

- Destructive winds of the force indicated are anticipated within 24 hours.

COR I

- Destructive winds of the force indicated are anticipated within 12 hours.



The safety of your family during and after a hurricane is a direct result of your planning and readiness. At a minimum, you should:

Have a family evacuation plan

Have the following ready to bring with you:

Clothing and toiletries

Sleeping bags and blankets

Medications

Money for unforeseen expenses

Items for infants - crib, diapers, toys/games, etc

Pet items

Establish a long distance contact number outside the area in the event you are separated from your family members.

Plan ahead if you have any special needs family members or concerns.



PERSONAL DISASTER PREPAREDNESS

What is best / makes sense for you and your family?

What is important to you?

Photos?

Documents?

Xbox?

Laptop?

Pet?



CONDITIONS OF READINESS



COR V: Set June 1st and is default through end of November.

Personal Preparation:

- Plan out and drive your evacuation route.
- Be prepared to protect your home and property by having window boards ready.
- Make sure personal information is update in NFAAS and TWMS.
- Educate your family members/children about Conditions of Readiness and Hurricane Categories.



CONDITIONS OF READINESS



COR IV: Destructive winds are anticipated within 72 hours.

Personal Preparation:

- Monitor weather developments.
- Review family evacuation plans.
- Locate and gather together all important family papers (including insurance).
- Check all emergency supplies.
- Prepare to board your home if necessary.



IMPORTANT NOTE:

Many insurance companies will not allow you to add/make changes to flooding/windstorm policies once an active storm is in the Gulf of Mexico. Know your policies and level of coverage beforehand.



CONDITIONS OF READINESS



COR III: Destructive winds are anticipated within 48 hours.

Personal preparation:

- Finalize evacuation plans.
- Remove all loose objects outside.
- Ensure all vehicles are full of fuel.
- Board up your home with plywood.
- Pack evacuation vehicles.
- Finish all unfinished emergency actions.



What items would you bring?

Cash?

Food/water? 3 day supply per person

Pet food?

Toys? DVD players? Games for young children?

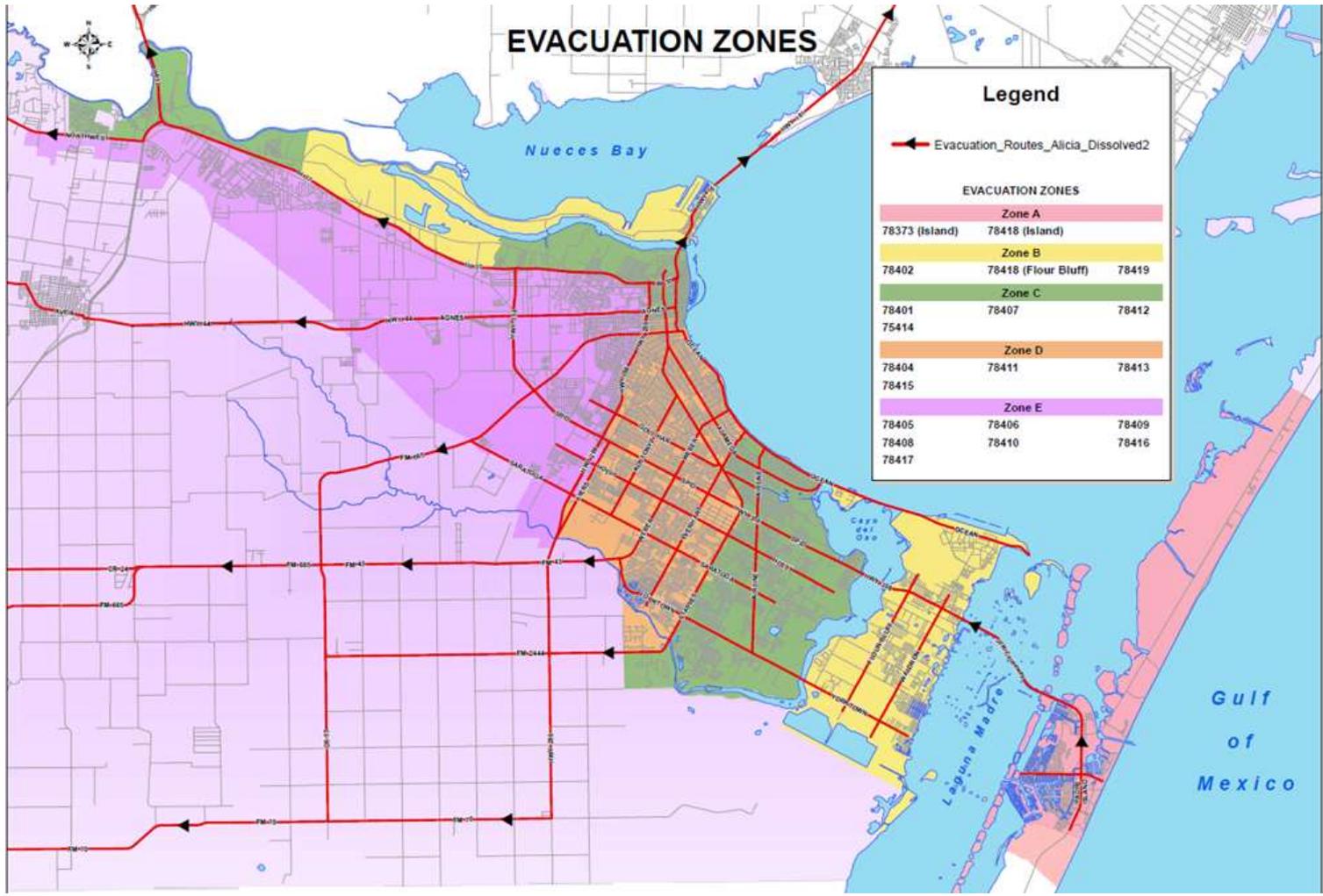


Could this come in handy on a 16 hour drive in stop and go traffic??





**What is best for
you and your
family?**





CONDITIONS OF READINESS



COR II: Destructive winds are anticipated within 24.

Personal preparation:

Your “GO” Kit should be already complete

EVACUATE WHEN ORDERED BY THE CO.....



**An ordered evacuation by the
Commanding Officer is an ORDER!!!**



CONDITIONS OF READINESS



COR I: Destructive winds are anticipated within 12 hours

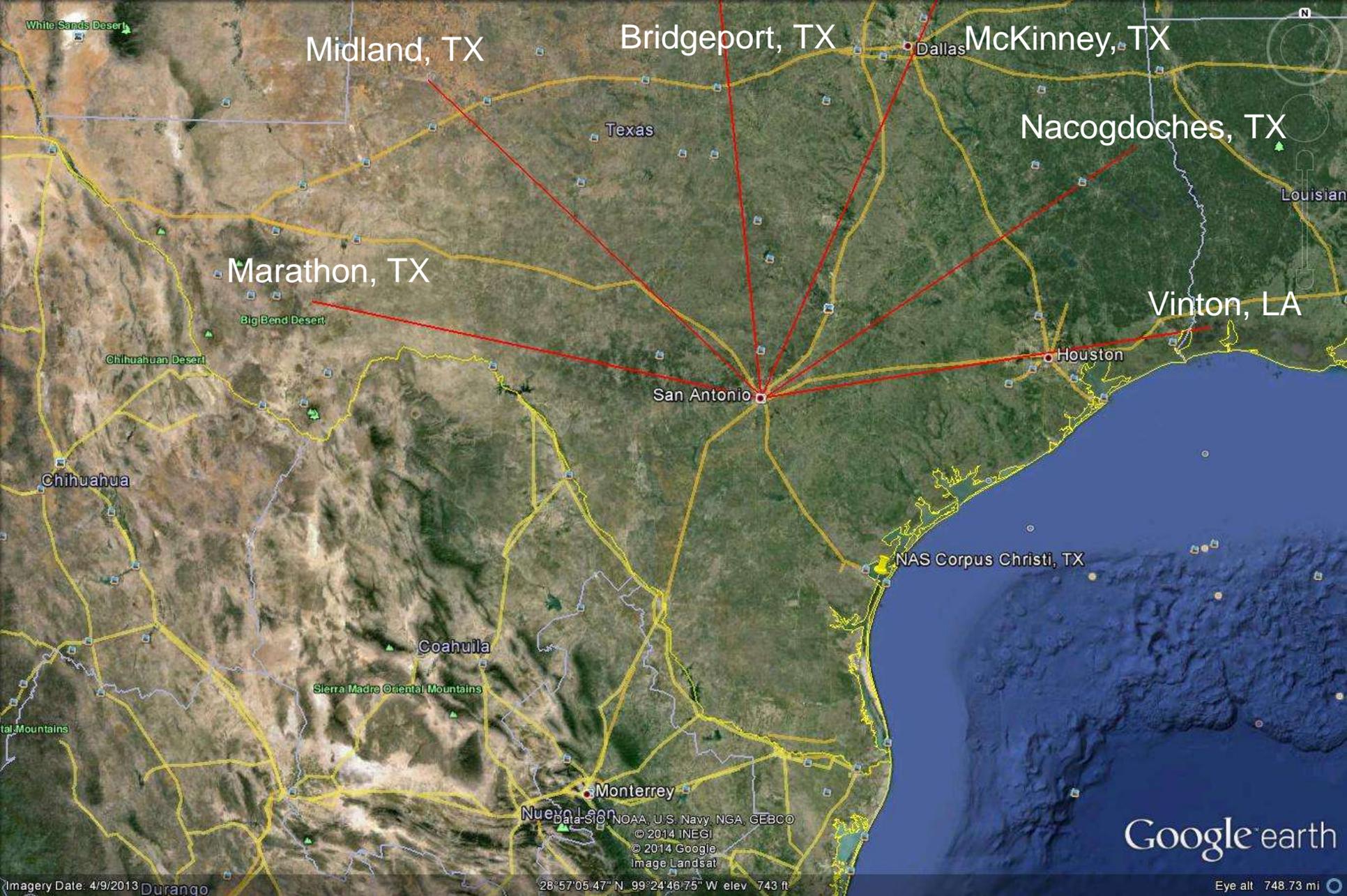
**IF YOU HAVE NOT LEFT YET, ...HUNKER DOWN...IF YOU LEAVE YOU
MIGHT BE STUCK ON THE ROAD**



**What is best for
you and your
family?**



- Your CO designates the Safe Haven
- NASCC safe haven is Joint Base San Antonio (JBSA)
- All reimbursements will be for the San Antonio rate = \$176/day (\$110/hotel & \$66/MIE)
- Evacuation area is a 300 mile radius FROM San Antonio. All Military remain within a one day drive from JBSA.



Travel to Mexico during an evacuation is **NOT AUTHORIZED?**



Evacuation routes



- **Most widely used route will be Interstate 37.**
- **There are 5 other routes to safety that emergency officials are hoping residents will consider instead of getting stuck in major congestion.**
- **The recommendation is to take the route that makes the most sense to you and your family.**
- **Determine where you want to go and what route you're going to take, plan ahead of time.**



Evacuation routes



- Legend**
- A: Laredo via SH 44/US 59
 - B: San Antonio via FM 624/SH 16
 - C: San Antonio via US 181
 - D: San Marcos via US 181/SH 123
 - E: Austin via US 77/US 183
 - F: I-37 EVACULANE
 - G: I-37 Contraflow Lanes

Evacuation Route F: I-37 Hurricane Lane/Contraflow Information

I-37/EVACULANE INFO
 From NPID/SH 358 Hurricane lane is left berm.
 Right Lane Must Exit at US 77 North
 Past 77 North - Hurricane lane shifts to right lane
 Hurricane Lane ends at US 281 in Pleasanton - Right lane must exit.

I-37/CONTRAFLOW INFO
 Contraflow begins at SH 357 (NPID) and I-37
 No trucks, vehicles with trailers, or high profile vehicles allowed in contra-flow lanes.
 Contraflow ends at US 281 at Pleasanton

Cities/Landmarks	EXIT #					Miles	Total Miles
I-37 & NPID	4	-	-	-	-	0	0
Rand Morgan	9	X	-	-	-	5	5
Carbon Plant	10	-	-	-	-	1	6
McKinzie Rd.	11	-	-	-	-	1	7
Violet Rd	11	X	-	-	-	0	7
Leopard St.	13	-	-	-	-	2	9
US 77S/I-37 Calallen	14	X	X	X	-	1	10
US 77 North	17	-	-	-	-	3	13
Mathis	36	X	-	X	-	19	32
SH: 359 Gas Oasts / Portable Restrooms / Contraflow Entrance & Exit							
Parking Area	41	-	-	-	X	5	37
George West	56	X	-	X	-	20	52
US 59: Gas Oasts / Portable Restrooms / Contraflow traffic may Exit							
Three Rivers	69	X	-	-	-	13	65
US 281 ALT	76	-	-	-	-	7	72
Rest Area	78	-	-	-	X	2	74
TX 99	83	X	-	X	-	7	79
Pleasanton	104	X	X	X	-	5	100
US 281: Hurricane Lane Ends - Right Lane Must Exit							
TX 97	109	-	-	-	-	5	105
Picnic Area	112	-	-	-	X	3	108
FM 3006	113	-	-	-	-	1	109
FM 3006: All Contraflow traffic must Exit							
Loop 1604	125	X	X	X	-	13	121



EVACUATION MAP

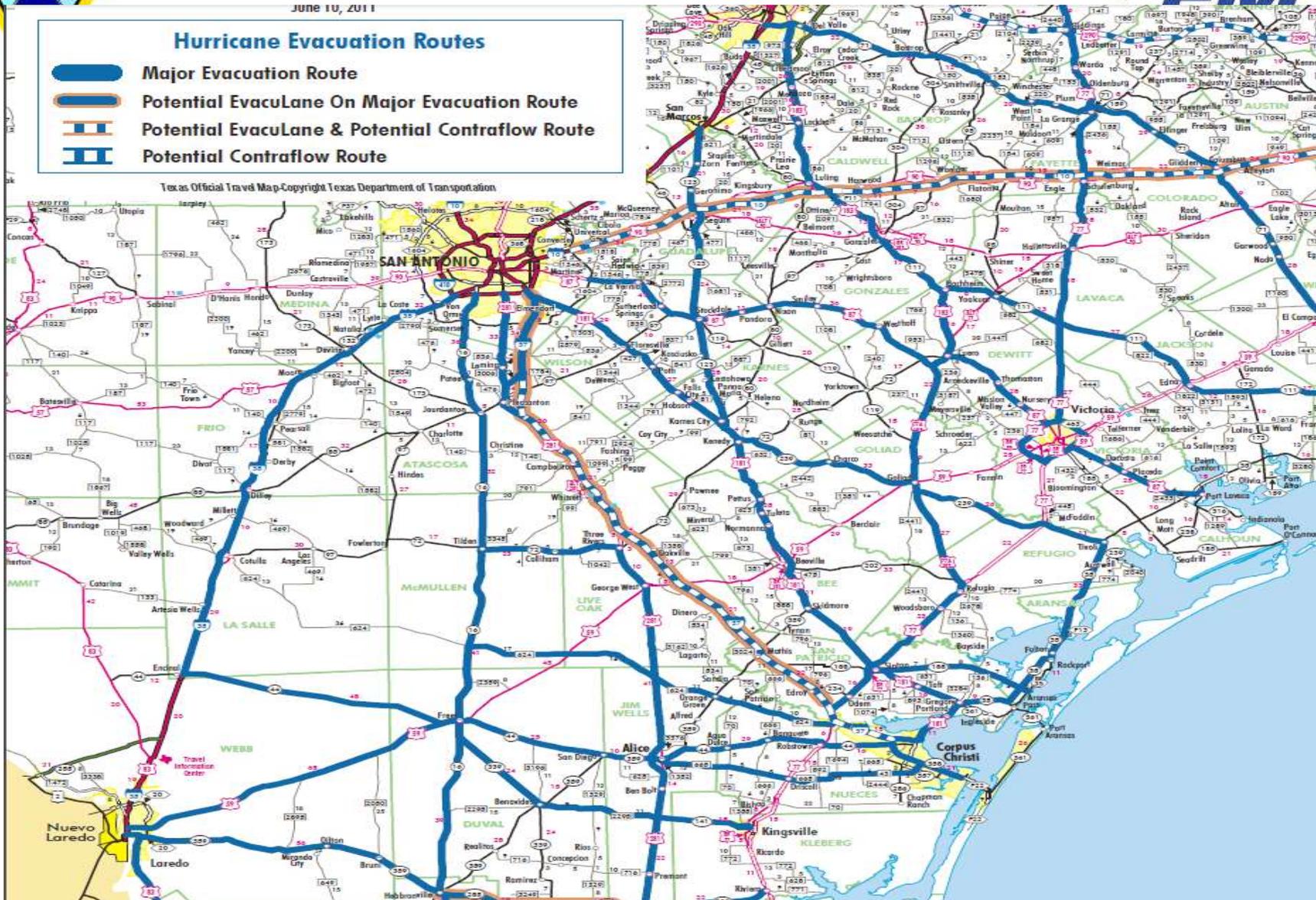


JUNE 10, 2011

Hurricane Evacuation Routes

-  Major Evacuation Route
-  Potential Evac Lane On Major Evacuation Route
-  Potential Evac Lane & Potential Contraflow Route
-  Potential Contraflow Route

Texas Official Travel Map-Copyright Texas Department of Transportation





Navy Family Accountability and Assessment System



<https://navyfamily.navy.mil>

**If a computer is not accessible, call the Navy
Personnel Command Emergency Coordination
Center (NPCECC) at 1-877-414-5358 or
1-866-297-1971 (TDD)**

**NASCC Information
Hot Line 1-877-378-8373**



Hurricane Preparedness Resources



- Command Info Line 1-877-378-8373
- American Red Cross: 1-877- 272-7337
- Navy marine Corps Relief: 361-961-3482.
NASCC EM : <https://www.cnic.navy.mil/CorpusChristi/index.htm>
- FEMA Website: www.fema.gov
- NFAAS Website: <https://navyfamily.navy.mil>
- Disaster Assistance: www.disasterassistance.gov
- City Of Corpus Christi:
<http://www.cctexas.com/?fuseaction=main.view&page=774>
- CNIC Preparedness:
http://www.cnic.navy.mil/CNIC_HQ_Site/WhatWeDo/EmergencyManagement/OperationPreparedness/BeInformed/NaturalHazards/Hurricane/index.htm



QUESTIONS

