

## **Course Organization**

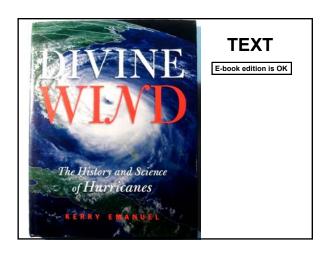
- MWF 11:00-11:50 AM, AHC5-357
- H. E. Willoughby, 305-348-0243, AHC5 363, hugh.willoughby@fiu.edu
- Office Hours: Mon. 10:00-11:00 AM & Tue 1:00-2:00 PM, Wed. 2:00-3:00 PM, or by appointment
- No prerequisites.
- On-line syllabus at:

http://faculty.fiu.edu/~willough/met 4532/0 Syllabus.pdf

On-line notes:

 $\label{eq:http://faculty.fiu.edu/~willough/met 4532/0 LINKS.html} \ . \ Note underscores instead of spaces.$ 

· Occasional weather discussion and comments



## **Grades:**

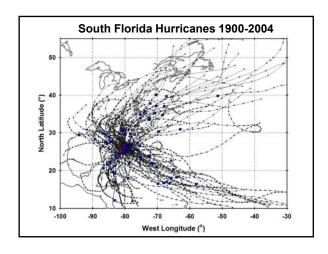
Grading Scale	
100-90	Α
89-80	В
79-70	C
69-60	D
below 60	F

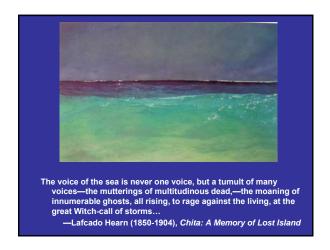
Grade Components		
Participation	15%	
Exam #1	20%	
Exam #2	20%	
Paper	20%	
Final	25%	
Total	100%	

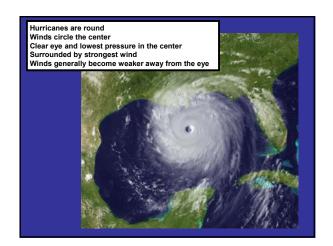
# **Assignments:**

- Look over Syllabus
- For this time: "Kamikaze (E pp. 1-5)," and Huricán (E. 18-22)
- For next time:
  - E 30-32: Columbus
  - E 63-66: 1780
  - SW 3-30: Early History
- Be thinking about a paper topic
- Watch the weather...











### KUBLAI KAHN'S FIRST TYPHOON

- · Genghis Kahn's grandson
- Inherited and an empire that had conquered Northern China in 1259 CE
- Set out to conquer Japan in 1274
- Korean ships and sailors
- 40,000 troops/sailors including 25,000 Mongols
- · Landed on NW coast of Kyushu
- Destroyed by a typhoon overnight Nov 19-20
- · Marco Polo arrived in Beijing the next year.

### KUBLAI KAHN'S SECOND TYPHOON

- Conquered all of China by 1279 CE
- Set out to conquer Japan again in June 1281
- Two armadas
- 40,000 troops/sailors in one 100,000 in the other
- · Landed on NW coast of Kyushu again
- Japanese resisted until August
- Mongol fleet destroyed by a Typhoon on 15-16 August.
- Archaeological artifacts found in Imari Bay
- Kamikaze & Typhoons in WWII

# **Origins of Names**

- Jurakan
  - Bad-guy brother in Carib (Taino) or Maya creation myth.
  - Depicted with cyclonically spiraling arms
  - Jurakan → Huracán→ Hurricane

#### Typhoon

- Chinese *jufeng* wind from four directions, or scary wind, or *heifeng*, black storm/wind...
- Greek Earth demon Typhon, son of Gaia & Zeus, human body and
- Arabic *tufan* = violent wind

#### Cyclone

- Coined by Piddington (19th Century mariner and weather scholar)
- Coils of a serpent

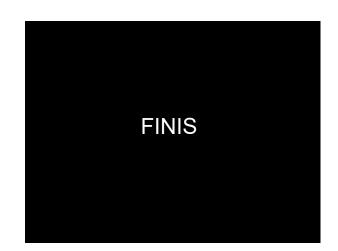


### **Summary**

- · Hurricanes are beautiful, but
- · ...they destroy property and kill people.
- Circular vortices smaller, but more intense, than middle-latitude frontal cyclones
- · Kamikaze frustrates Kublai Khan's invasions of Japan (1274 & 1281)
- Hurricane, Typhoon, Tropical Cyclone

## **Assignments:**

- Look over Syllabus
- For this time: "Kamikaze (E pp. 1-5)," and Huricán (E. 18-22)
- For next time:
  - E 30-32: Columbus
  - E 38-39: La Floride
  - E 63-66: 1780
  - SW 3-30: Early History
- Be thinking about a paper topic
- Watch the weather...



### **Graduate Students:** Special recitation time/place TBA

Grade Components		
Problems and recitation	25%	
Exam #1	15%	
Exam #2	15%	
Paper	25%	
Final	20%	
Total	100%	