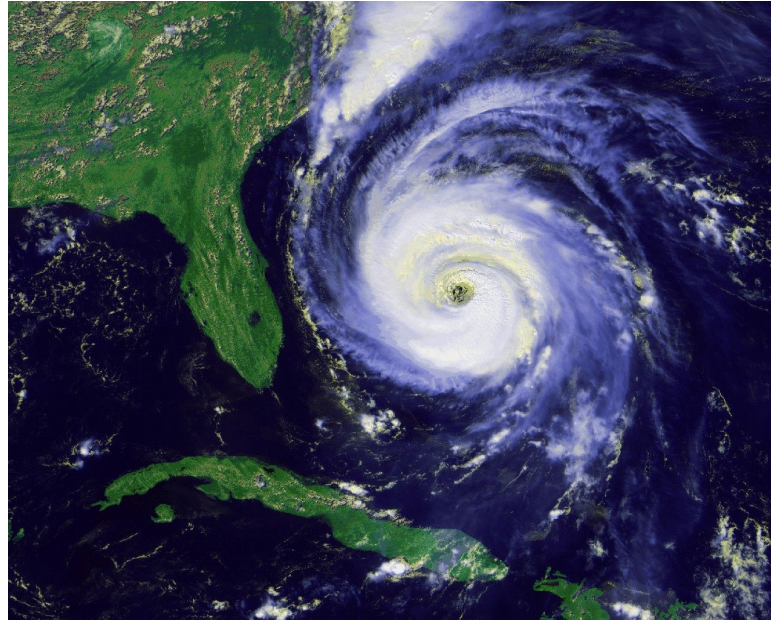


# Hurricane Formation

# Essential Question

Why are cyclonic storms dangerous?



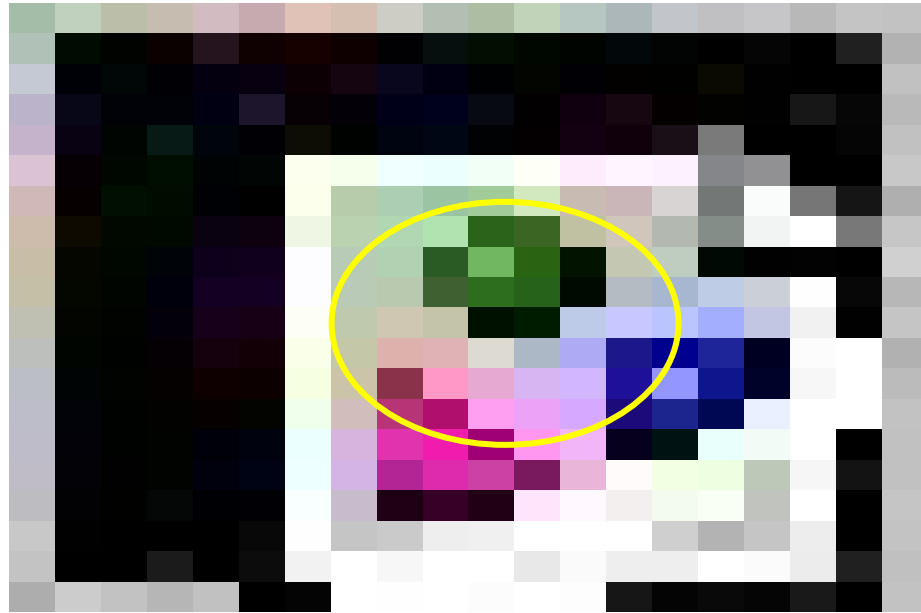
# Vocabulary

hurricane / cyclonic storm



# Vocabulary

eye of hurricane



# Cyclonic Storm Formation

# Tropical Storms

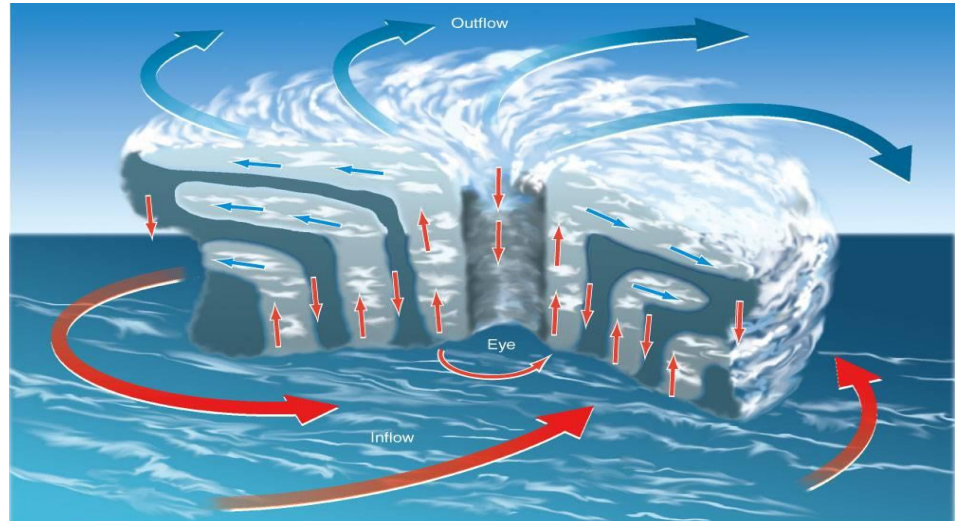
- Tropical storms form in a **low pressure system** when **water evaporates** off of warm, tropical waters
  - This creates a region of **low pressure** which attracts surrounding air
  - The rotation of the Earth (Coriolis Effect) **causes the storm to begin spinning**



# Cyclonic Storm

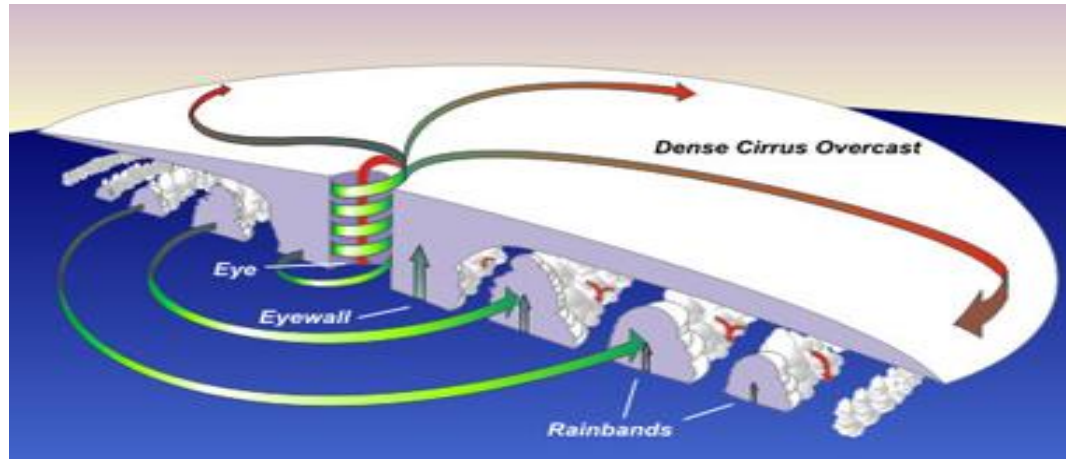
The strongest tropical storm is a **hurricane**, or a **cyclonic storm**

- These form when air moves **toward the center** of the storm and **rises into the atmosphere**



# Eye

- The **eye** of a hurricane is the center that is **relatively calm**





# Hurricanes

- Hurricanes will last until it can no longer produce enough energy to **sustain itself**
  - Usually happens when a hurricane moves over land



# Hurricane Preparation



- Hurricanes can be observed from weather satellites orbiting the Earth
  - Can improve hurricane warnings which can give people time to leave
- **During hurricanes you should:**
  - **Board up the house**
  - **Stay indoors**
  - **Have plenty of food and water**
  - **Stay away from windows**

# Galveston Hurricane



- September 8, 1900 - Galveston, Texas
- Category 4
- Greatest loss of life-6,000-12,000 Deaths
- 3<sup>rd</sup> highest number of casualties out of any Atlantic Hurricane
  - Great Hurricane of 1780
  - Hurricane Mitch 1998



# Hurricane Katrina

- New Orleans, Louisiana.  
Category 3 Hurricane
- 1,836 Deaths, mostly  
resulted from the levee  
breaking
- Deadliest US Hurricane  
since 1928

