



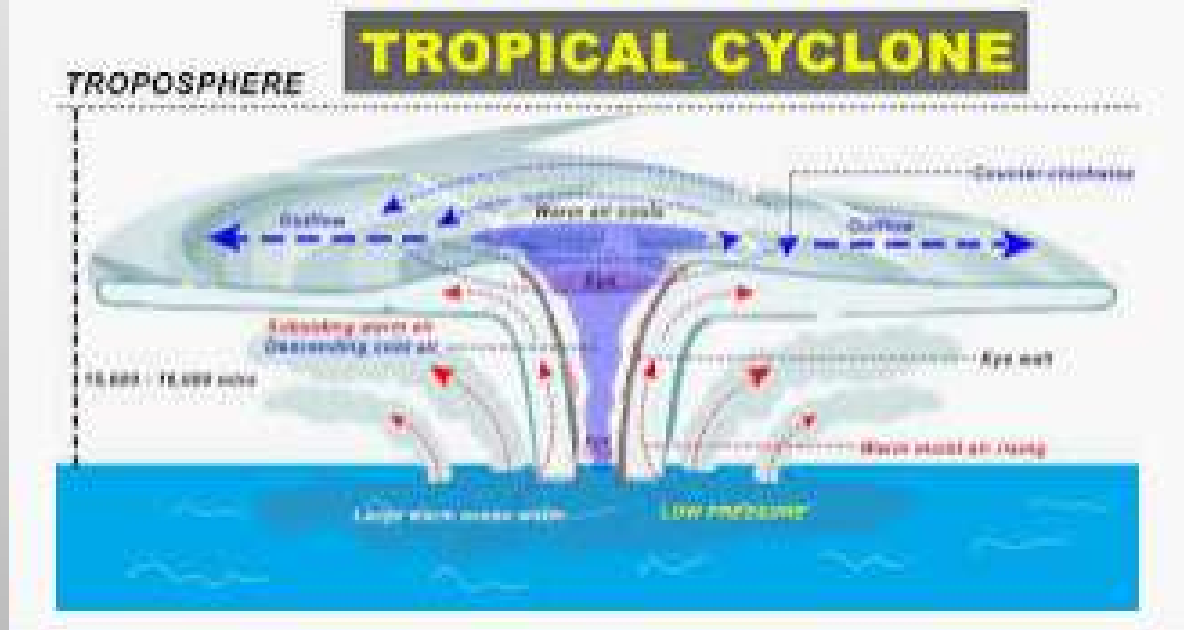
# CYCLONE

CHRISTY DION

3<sup>RD</sup> PERIOD

# WHAT IS THIS STORM LIKE?

- STORM FORMATION: IS LIKE A HURRICANE BUT FORMS IN THE “SOUTH PACIFIC & INDIAN OCEAN”



- EVENTS DURING STORM: IT IS A STORM SYSTEM CHARACTERIZED BY LOW-PRESSURE CENTER AND NUMEROUS THUNDERSTORMS THAT PRODUCE STRONG WINDS AND FLOODING RAIN.



# CYCLONE SAFETY

- TURN OFF ALL ELECTRICITY (GAS, WATER, UNPLUG APPLIANCES).
- EMERGENCY KIT – KEEP CLOSE
- KEEP FAMILY IN STRONGEST PART OF THE HOUSE
- LISTEN TO RADIO FOR UPDATES
- IF BUILDING STARTS BREAKING, TAKE COVER UNDER A MATTRESS
- EVACUATE THE AREA



- EMERGENCY KIT
  - SPARE BATTERIES
  - FIRST AID KIT
  - CANDLES
  - BATTERY OPERATED RADIO
  - COPIES OF IMPORTANT DOCUMENTS
  - BOTTLED WATER

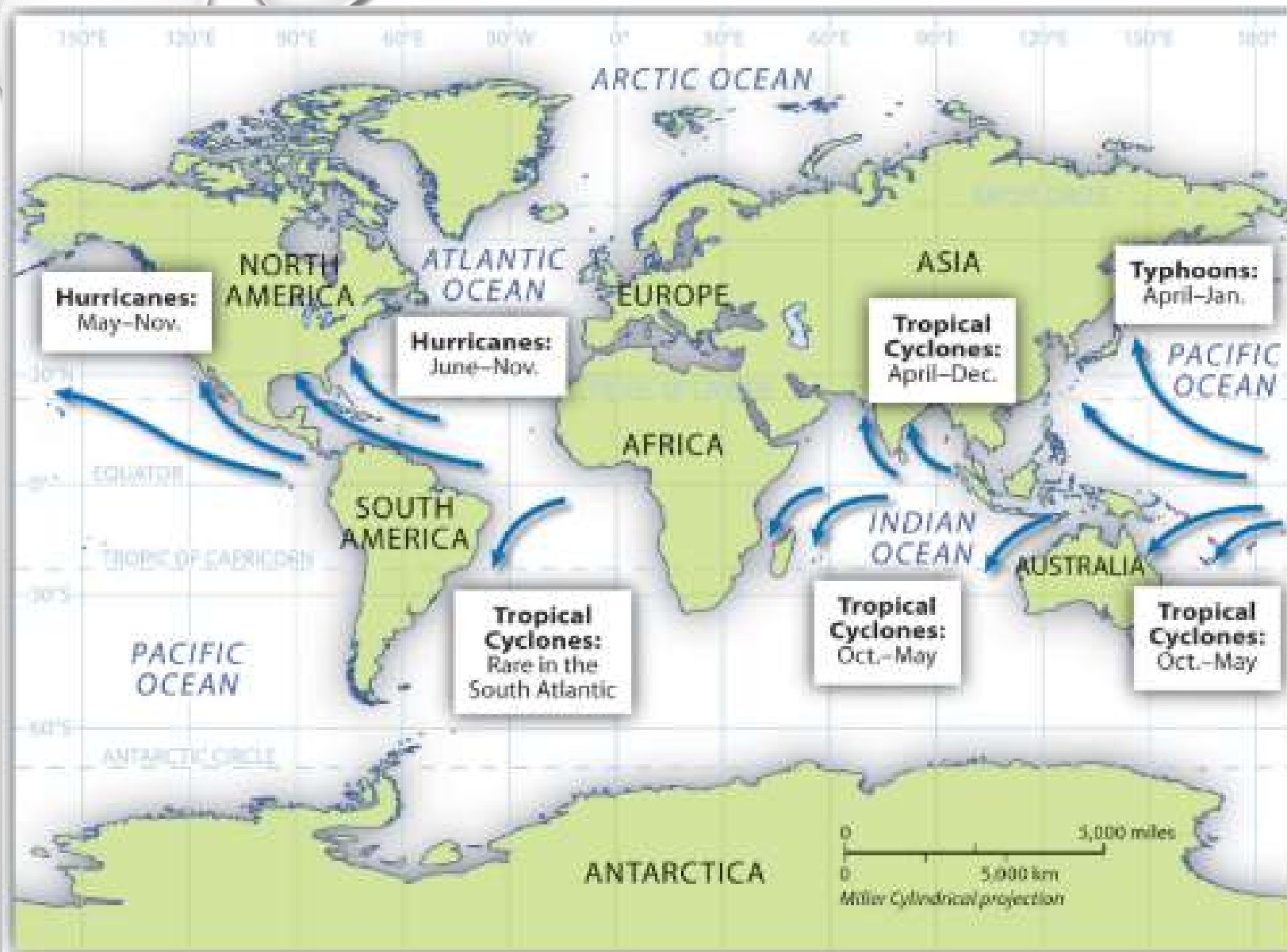


# FORECASTING

Tropical Cyclone Intensity Scale

Category	Sustained winds
Very Intense Tropical Cyclone	>115 kt >212 km/h
Intense Tropical Cyclone	90–115 kt 166–212 km/h
Tropical Cyclone	64–89 kt 118–165 km/h
Severe Tropical Storm	48–63 kt 89–117 km/h
Moderate Tropical Storm	34–47 kt 63–88 km/h
Tropical Depression	28–33 kt 51–62 km/h
Tropical Disturbance	<28 kt <50 km/h

- WHAT TOOL IS USED TO MEASURE?
  - DOPPLER RADAR
- CYCLONE PREDICTION:
  - SATELLITES
  - WEATHER RADARS
  - COMPUTERS
  - SCIENTISTS USE POTENTIAL INTENSITY TO HELP FORECAST THE STRENGTH OF CYCLONES.
  - VERY DIFFICULT TO PREDICT BECAUSE THEY CAN CHANGE SUDDENLY



# FREQUENCY & LOCATIONS

- TIME OF YEAR – NOVEMBER 1 – APRIL 30
- ABOUT 1 A MONTH FORMS DURING THIS PERIOD
- BASED ON DATA, THERE ARE ABOUT 11 EACH SEASON
- CYCLONES OCCUR IN THE PACIFIC AND INDIAN OCEAN
- IN US – EASTERN PACIFIC, HAWAII
- IN OTHER US AREAS – CALLED HURRICANES

Figure 5.35 Cyclones, Hurricanes, and Typhoons and Their Respective Locations around the World

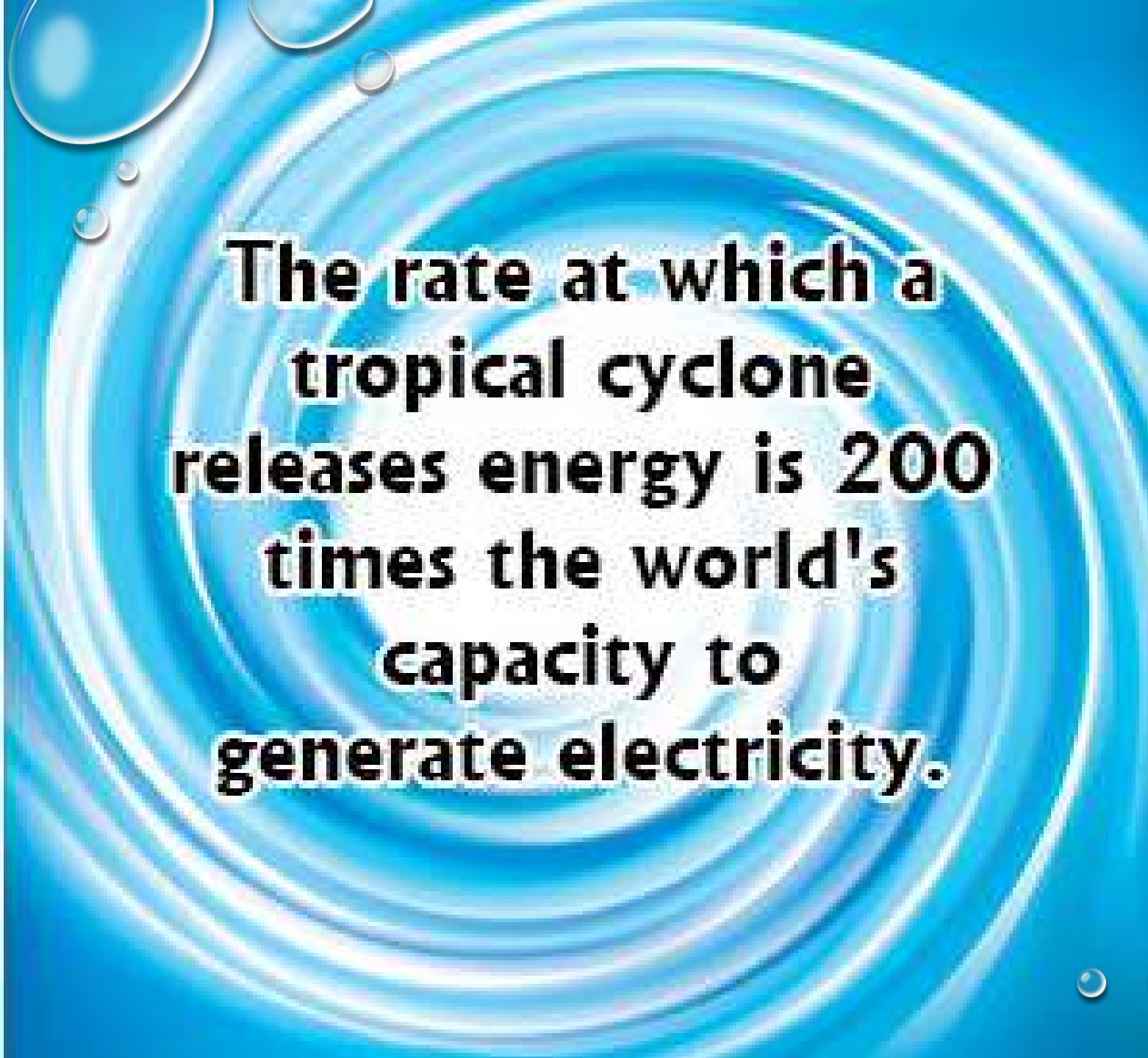
## PICTURES



- NOVEMBER 12, 1970 – STILL DEADLIEST TROPICAL CYCLONE EVER RECORDED
- EAST PAKISTAN
- PEAK SUSTAINED WINDS 185 KM/HR (115 MPH)
- 500,000 – 1,000,000 DEAD



- FEBRUARY 2, 2011 – QUEENSLAND, AUSTRALIA
- DAMAGES EXCEEDED \$3.6 BILLION
- 10,000 PEOPLE FORCED OUT OF THEIR HOMES
- DEATH OF 23-OLD FROM SUFFOCATION



**The rate at which a tropical cyclone releases energy is 200 times the world's capacity to generate electricity.**

## FACTS

- CYCLONES CANNOT FORM NEAR THE EQUATOR BECAUSE THE COROLIS FORCE NEAR THE EQUATOR IS 0.
- CYCLONES ARE THE MOST DANGEROUS HAZARD TO PEOPLE
- CYCLONES SPIN CLOCKWISE IN THE SOUTHERN HEMISPHERE
- THE EYE IS THE MOST CALM PLACE IN A CYCLONE
- A CYCLONE IS GIVEN A NAME WHEN ITS WINDS REACH 89 KMPH