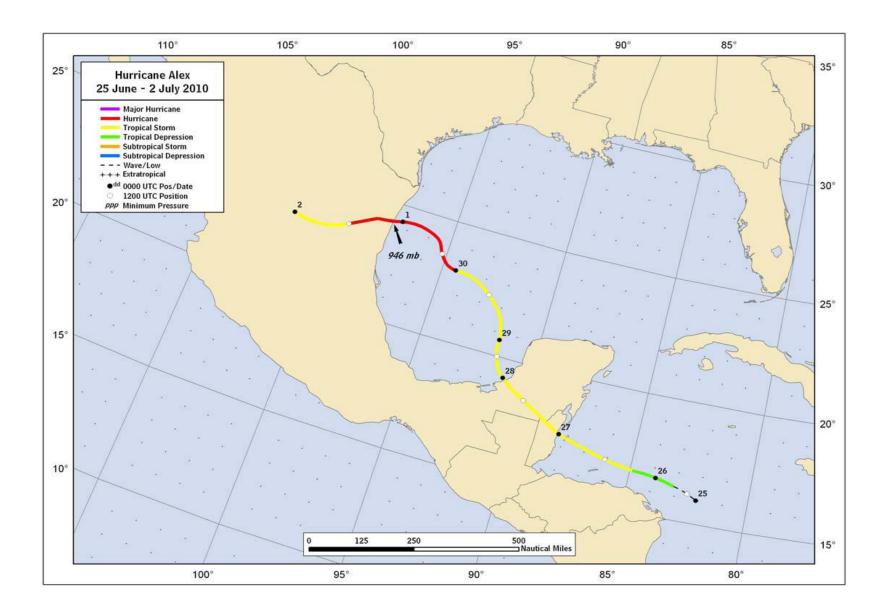
Tropical Storm Alex 25th to 26th June 2010





Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida

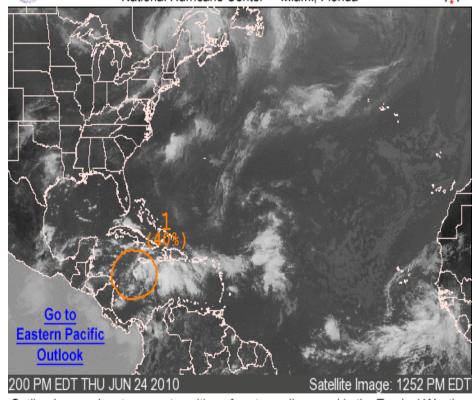


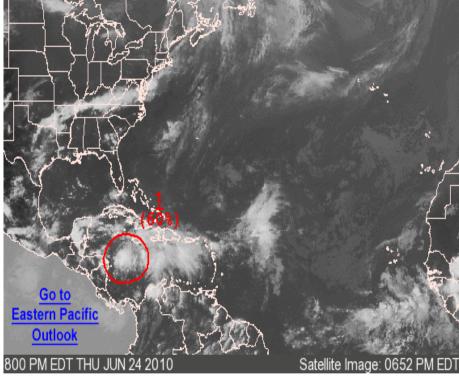


Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida







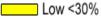
Outlined areas denote current position of systems discussed in the Tropical Weather Outlook. Color indicates probability of tropical cyclone formation within 48 hours.

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Low <30%

Medium 30-50%

High >50%





High >50%



Graphical Tropical Weather Outlook

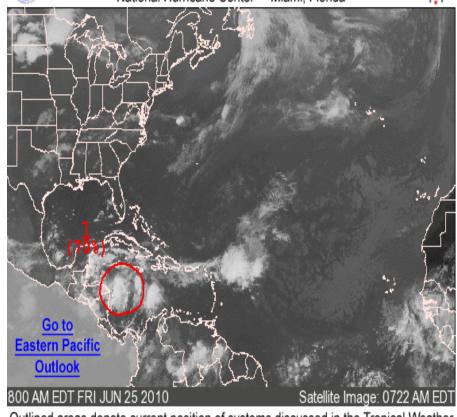
National Hurricane Center Miami, Florida



Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



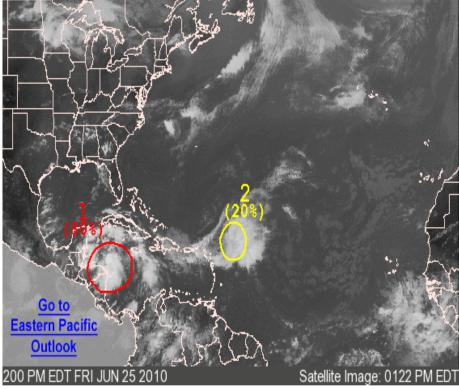


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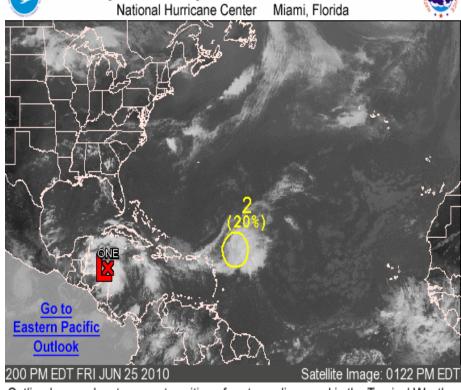
High >50%



Graphical Tropical Weather Outlook

Graphical Tropical Weather Outlook National Hurricane Center Miami, Florida





Go to Eastern Pacific Outlook 800 PM EDT FRI JUN 25 2010 Satellite Image: 0722 PM EDT

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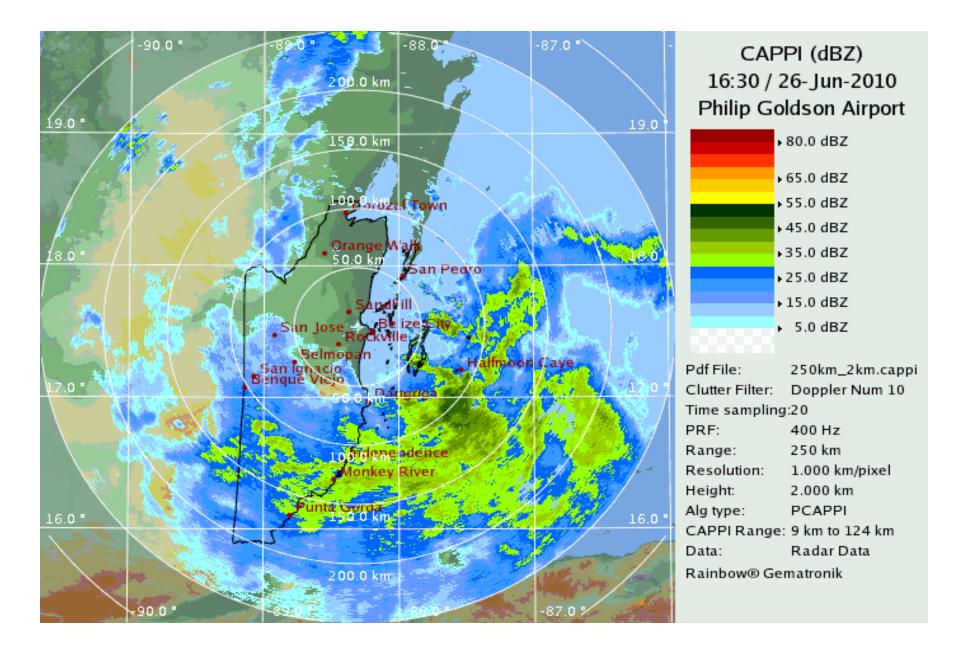
Outlined areas denote current position of systems discussed in the Tropical Weather

Outlook. Color indicates probability of tropical cyclone formation within 48 hours.

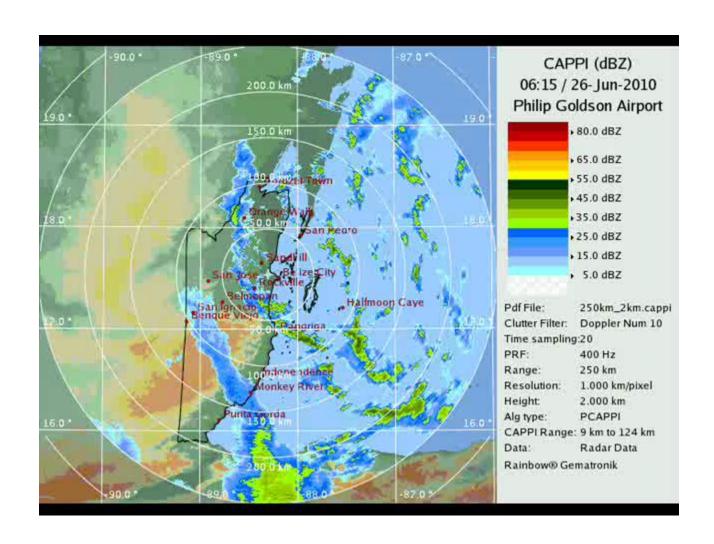
High >50%

Low <30% Medium 30-50% High >50%

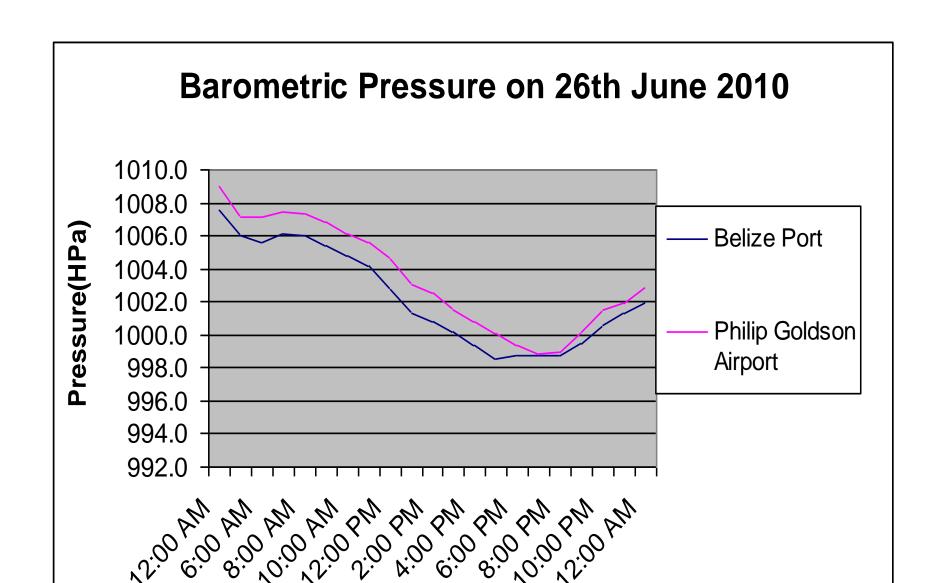
- June 24, at 6:00pm (25th 0000UTC) the broad area of low pressure centered between the eastern tip of Honduras and Jamaica had become better defined.
- Surface pressures had begun to fall in the area and there was also an increase in the shower activity.
- The system now had a 60 percent chance of becoming a tropical depression.



Alex Loop



Pressure readings from the Belize Port
 Authority and Philip Goldson Airport indicated
 that Tropical Storm Alex made landfall north
 of Belize City around 5:45pm (2345UTC)



Time

Rainfall (24th to 27th June)

- Tropical Storm Alex was forecast to produce accumulation of 4 to 8 inches of rainfall over much of Belize with isolated maximum of up to 15 inches
- 2.9 to 8.6 inches most of which occurred on the 26th
- Minimal damage
- Moderate flooding event
- No deaths

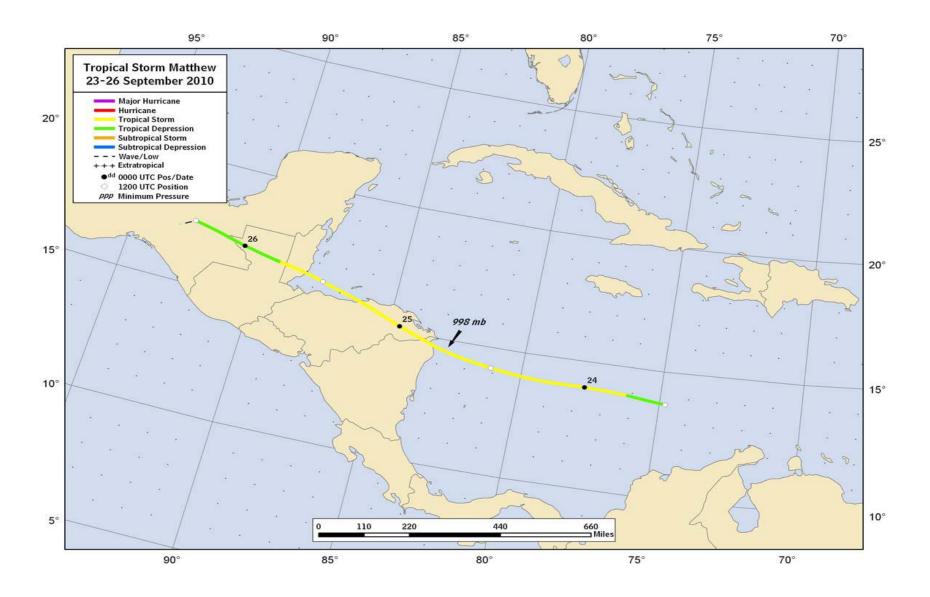
Tropical Storm Karl 14th and 16th September

- At 2100 UTC on 14th September a tropical storm warning was declared for the north coast of Belize to the border with Mexico.
- Landfall was along the south coast of Mexico at about 0045 UTC 16th September about 53 miles northeast of the northernmost town, Corozal.
- Maximum sustained winds: 65 mph

- No damages reported
- No flooding
- Temporary closure of the northern commercial free zone at the border with Mexico

Tropical Storm Matthew September 24th to 25th

Track



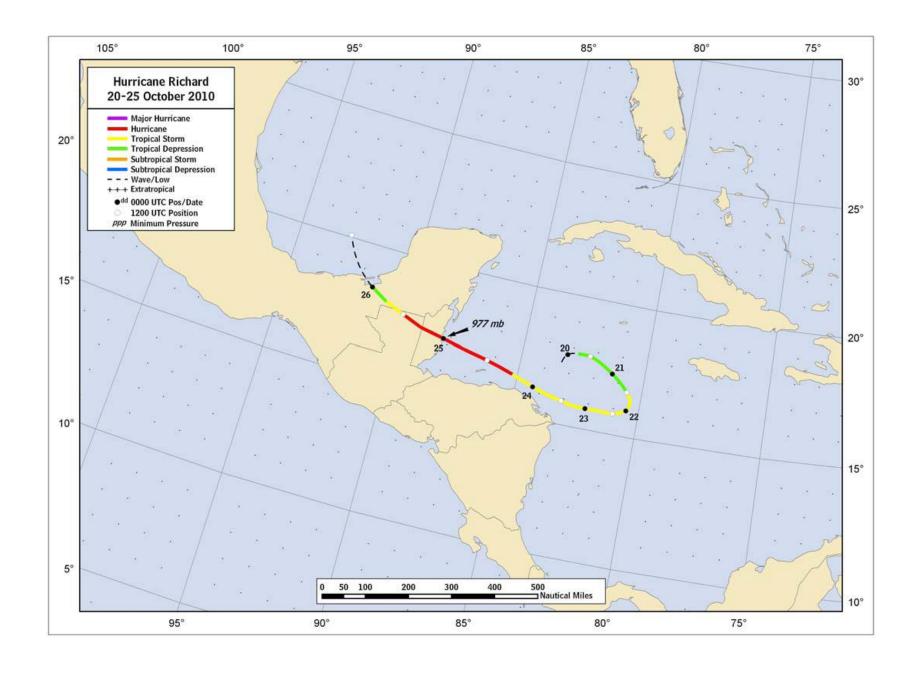
- At midnight, Friday Sept 24th the Belize
 Government issued a hurricane watch for the
 coast of Belize.
- A tropical storm warning was issued at 9:00pm
- At midnight on Saturday the warning was declared for the coast of Belize south of Belize City. A tropical storm watch was also now in effect from Belize City north.
- Matthew Loop

Rainfall

 Several network stations measured rainfall amounts ranging between 85 to 150mm during the two days (Sept.24-25th, 2010) when TS Matthew approached and crossed the country Emergency Management sources indicated the greatest damage occurred in the south of the country and affected the rice crop. Flooding caused some minimal damage and transportation probelms. NEMO evacuated people from three villages in southern Belize as a precaution against flooding. Since the passage of Matthew occurred during the height of the weekend, many social and outdoor events were cancelled. There was no loss of life associated with the events surrounding tropical storm Matthew in Belize.

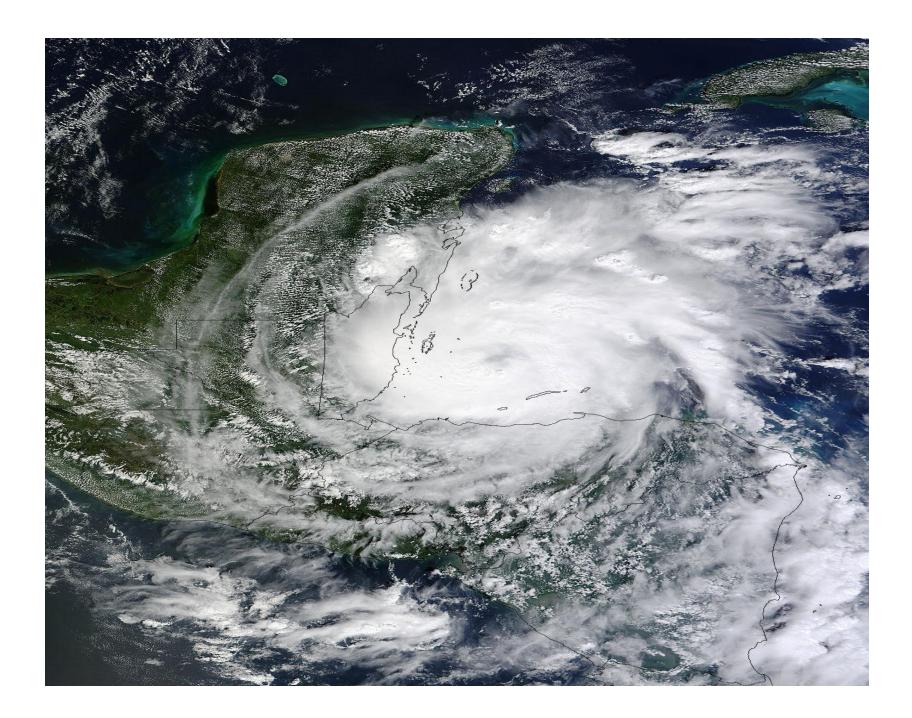
Hurricane Richard 24th and 25th October 2010

Dennis Gonguez





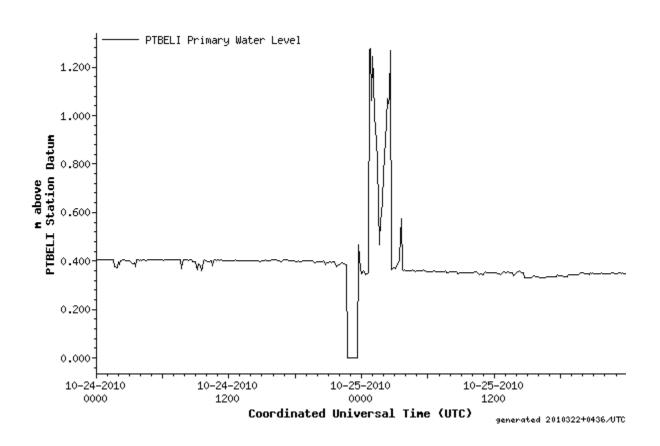
- See 11pm Advisory 9 (Internal issues/contentions include declaring/lifting a "phase" a. at nights and b. when the system is not a hurricane as yet)
- See 3 am Intermediate Advisory 7a.
- ..RICHARD WEAKENS TO A TROPICAL STORM OVER NORTHEASTERN GUATEMALA... SUMMARY OF 400 AM CDT...0900 UTC...INFORMATION -----LOCATION...17.6N 89.6W ABOUT 170 MI...275 KM SSF OF CAMPECHE MEXICO ABOUT 90 MI...150 KM W OF BELIZE CITY MAXIMUM SUSTAINED WINDS...65 MPH...100 KM/HR PRESENT MOVEMENT...WNW OR 285 DEGREES AT 12 MPH...19 KM/HR MINIMUM CENTRAL PRESSURE...993 MB...29.32 INCHES WATCHES AND WARNINGS ------ CHANGES WITH THIS ADVISORY... THE GOVERNMENT OF MEXICO HAS DISCONTINUED ALL COASTAL WARNINGS FOR MEXICO. HURRICANE AND TROPICAL STORM CONDITIONS HAVE LIKELY DIMINISHED ALONG THE BELIZE COAST.



- Hurricane Richard with sustained winds of 90 mph made landfall 20 miles south of Belize City at approximately 0045 UTC
- 4,639 individuals sought shelter. Thousands of other coastal dwellers voluntarily relocated inland to family and friends.

- Port of Belize Data (Belize City)
- Maximum Storm Surge = 4.2 ft at 0000 UTC 25th Oct
- Maximum wind= 56 miles per hour (49 knots) around 0100 UTC on 25th Oct
- Minimum Pressure= 999 millibars at 0000 UTC 25th Oct

Storm Surge



Wind and Rain

- National Meteorological Service (Philp Goldson International Airport)
- Maximum gust= 64.0 miles per hour at 0146 UTC 25th Oct (Analyses are not yet completed to determine the maximum wind speed)
- Total Rainfall = 145.3 mm (5.7 inches)

- Two deaths
- Richard interacted with numerous population centers including both cities and resulted in notable damages to both agriculture and housing sector.



- The path of Hurricane Richard took it directly across the country's two cities; Belmopan, administrative capital and Belize City, commercial capital and 53 communities, inclusive of some of the most heavily populated towns and villages. (approx 192.00 persons)
- 831 homes/ dwelling damaged or destroyed in 55 communities.
- The Citrus industry recorded the greatest loses in the agriculture sector as 1,500 acres of un- harvested oranges and grapefruits were blown off trees.

- Total damages amounted to Bz\$76M
- Storm surge destroyed many homes in the less privileged parts of Belize City
- The National Emergency Management
 Organization issued the 'ALL CLEAR" for the
 country of Belize at 6:30 am (1230 UTC) on
 Monday October 25, 2010.

- Alex Loop
- Karl Loop
- Matthew Loop
- Richard loop