

**Exercise**

**Hurricane Coleman**

**Invest 96L**

**Hurrex 2017**

**Thursday**

**April 27, 2017**

**11 AM EDT**

**ADVISORY 28**

**Drill**



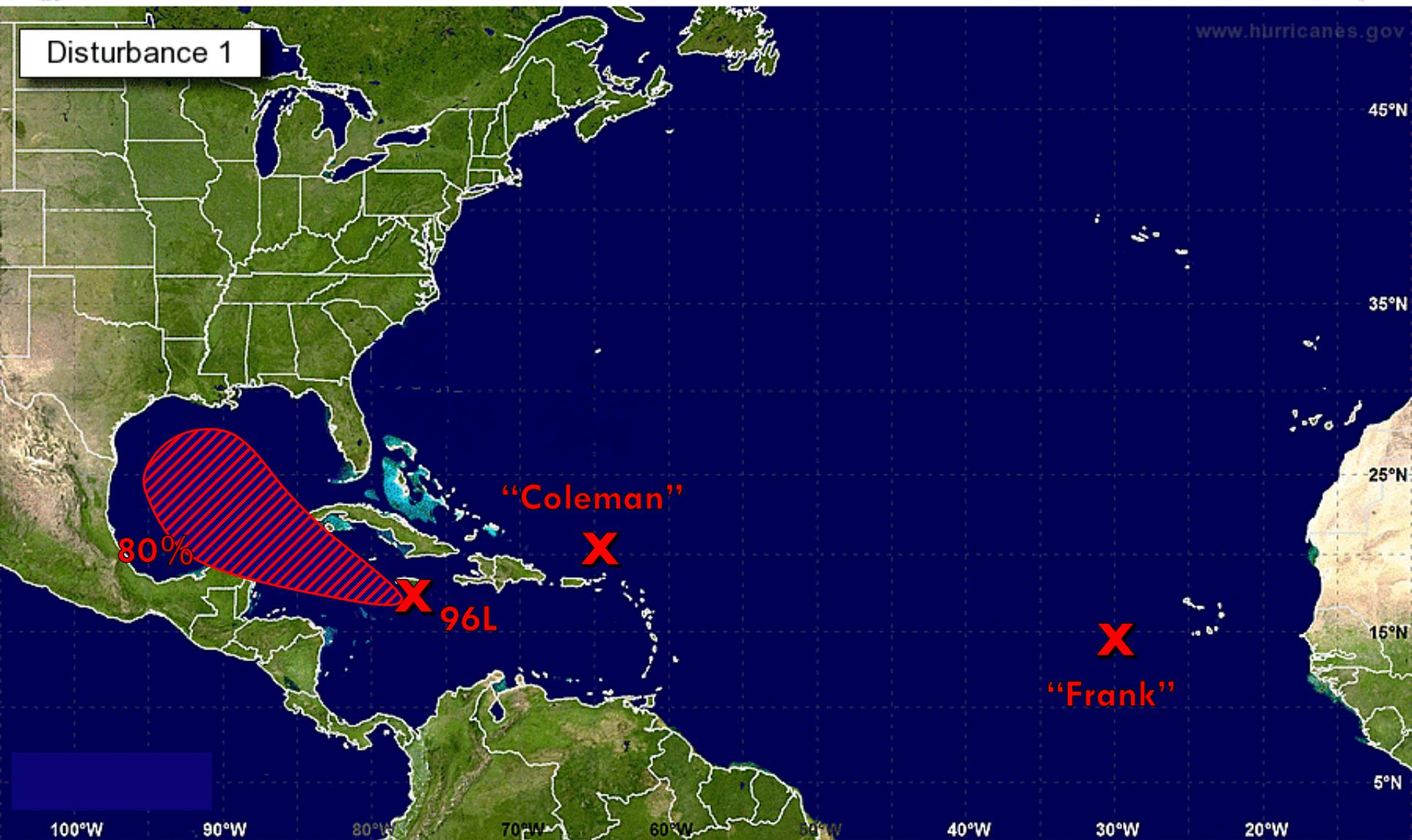
# Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



www.hurricanes.gov

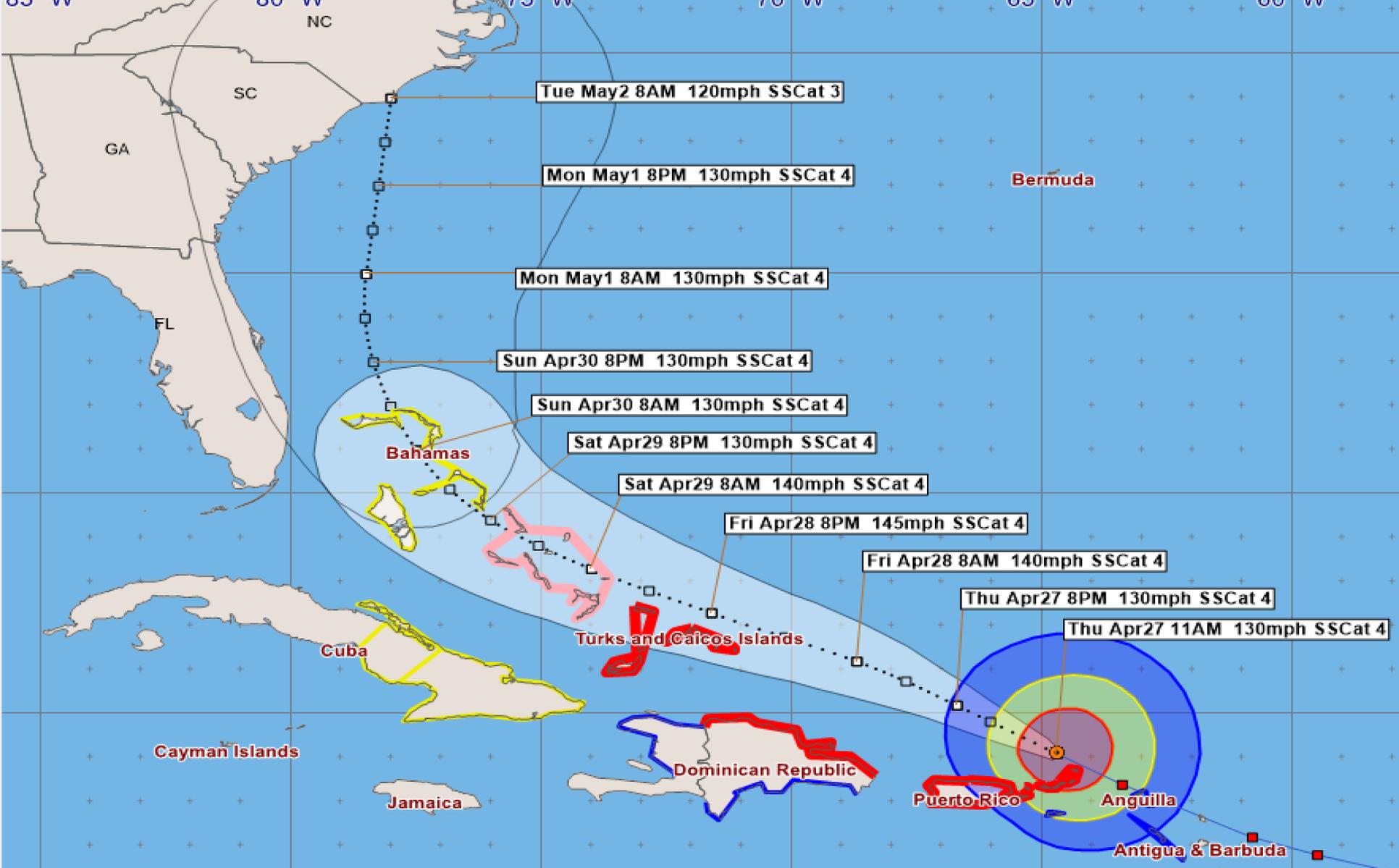
Disturbance 1



Tropical Cyclone Formation Potential for the Five-Day Period Ending at **Tuesday, May 2, 2017**

Chance of Cyclone Formation in Five Days: ■ Low < 40% ■ Medium 40-60% ■ High > 60%

X indicates current disturbance location; shading indicates potential formation area.



**Hurricane Coleman - Thursday, April 27, 2017 11 AM EDT Advisory #28**

Center Location: 19.1 N 64.7 W Maximum Sustained Winds: 130 mph (Cat 4) Movement: 17 mph WNW

forecast positions Potential Track Area: day 1-3 day 4-5 Surface Wind Field: at current location

Watches: hurricane tropical storm Warnings: hurricane tropical storm

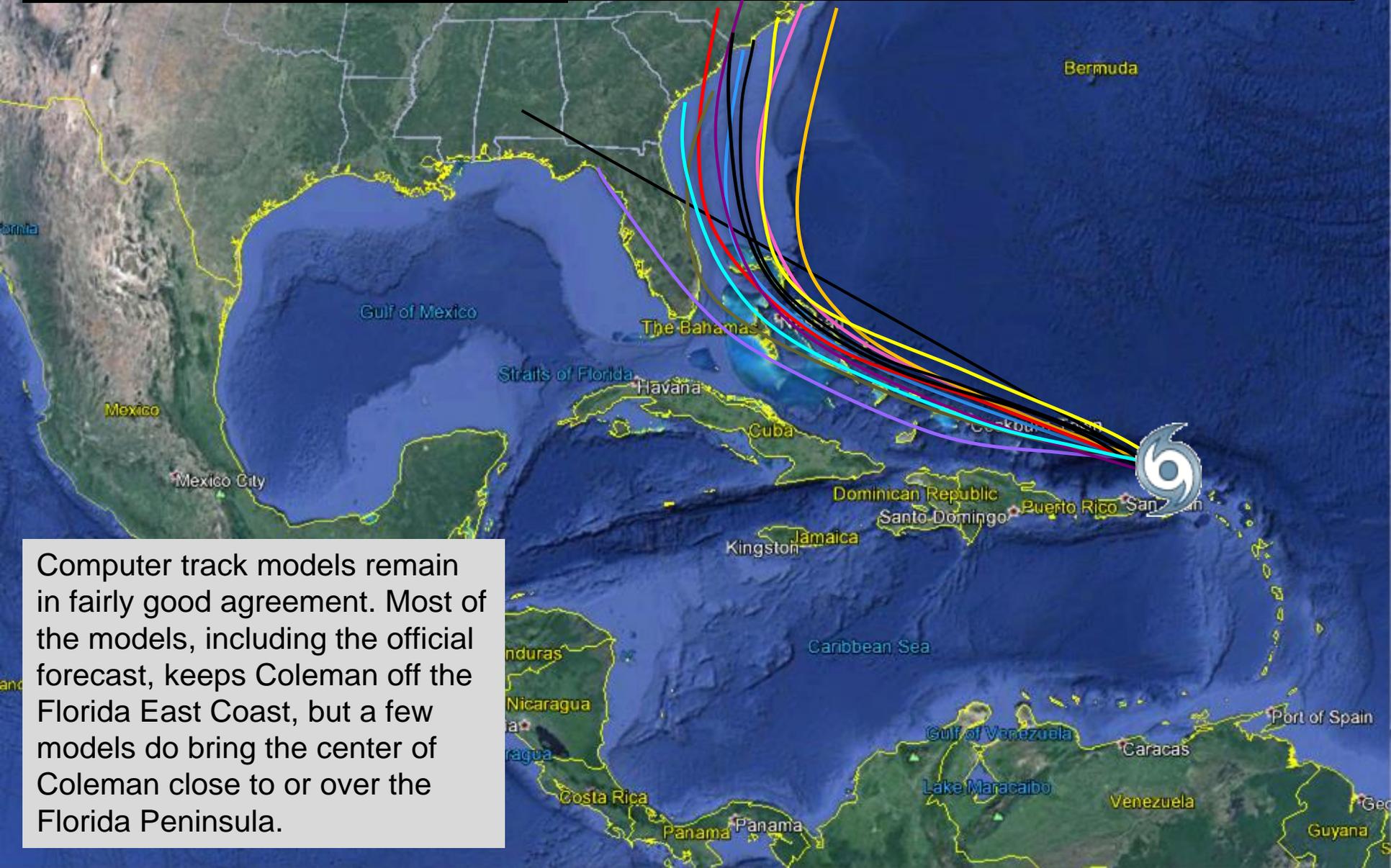
Sustained Wind Speeds: tropical storm >= 34kt/39mph strong tropical storm >= 50kt/58mph hurricane >= 64kt/74mph

# HURRICANE COLEMAN

Advisory 28

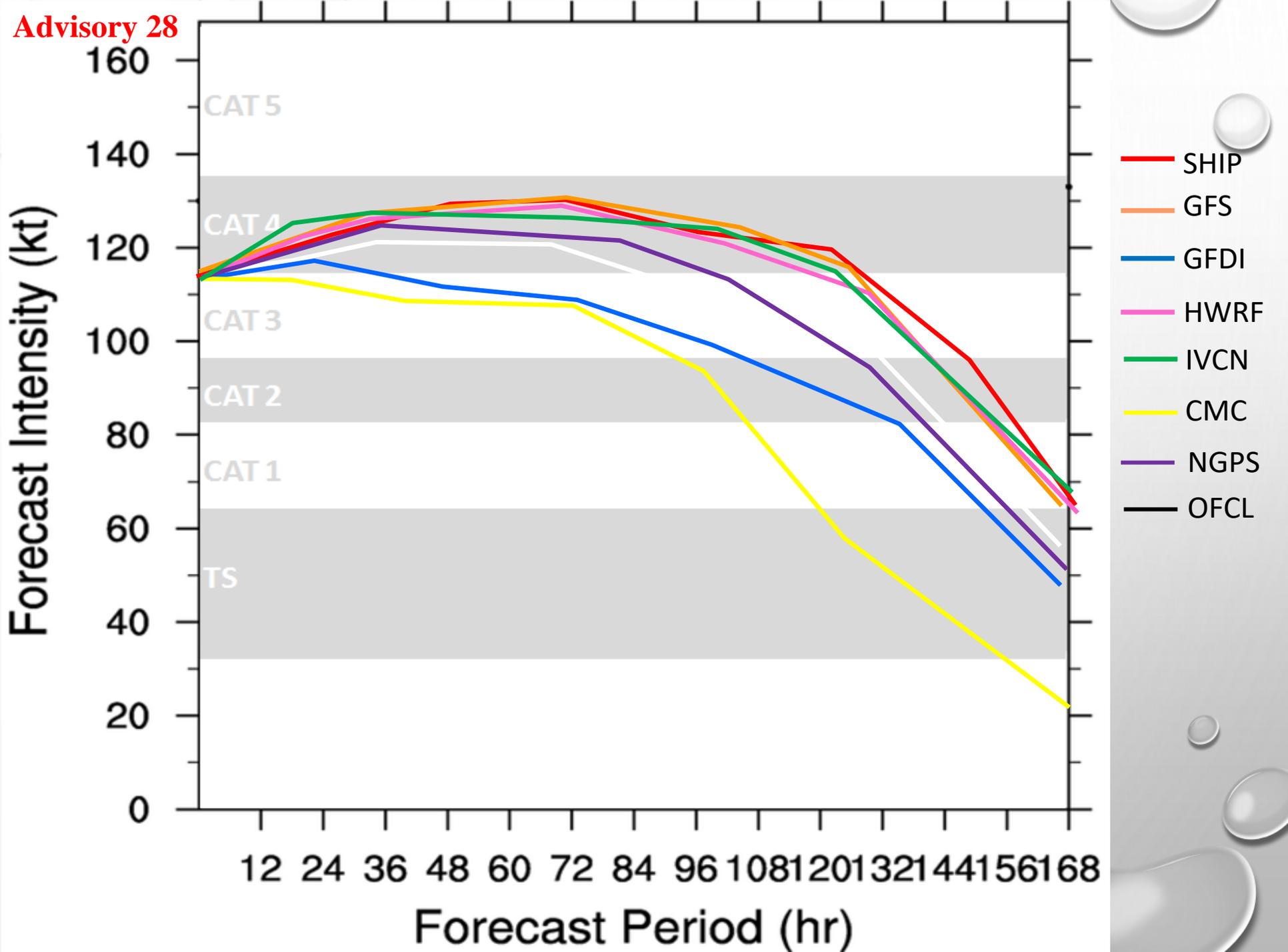
Early-cycle track guidance 1200Z

27 April 2017



Computer track models remain in fairly good agreement. Most of the models, including the official forecast, keeps Coleman off the Florida East Coast, but a few models do bring the center of Coleman close to or over the Florida Peninsula.

Advisory 28



# 96L Satellite Image

Location: 18.5 N, 78.0 W  
Movement: W @ 12 mph  
Max Wind: 35 mph  
Pressure: 1002 mb



# INVEST 96L

Early-cycle track guidance 1200Z

27 April 2017

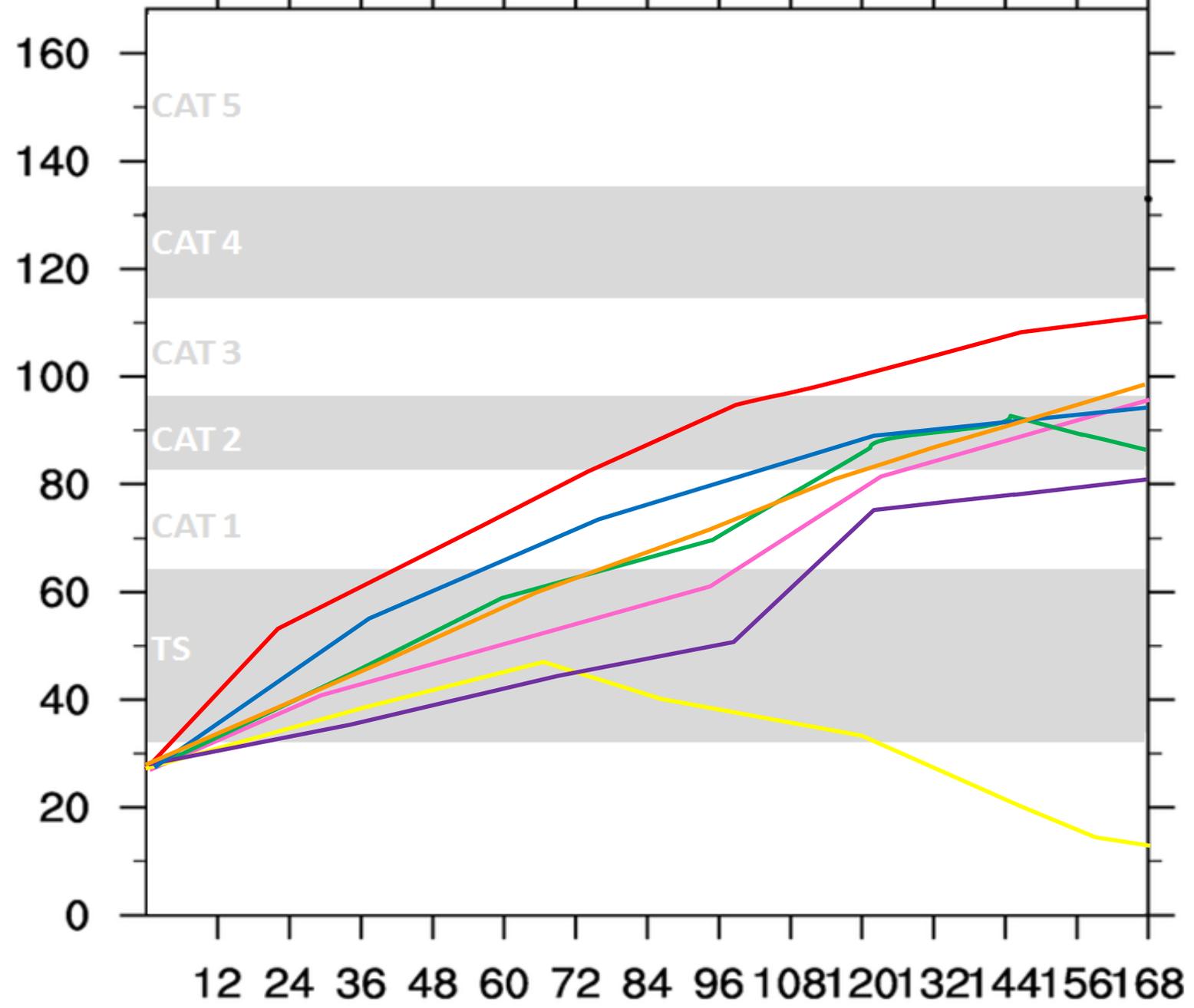
- |         |        |        |        |
|---------|--------|--------|--------|
| — XTRP  | — GFS  | — GFDL | — BAMD |
| — ECMWF | — GFNI | — HWRF | — TVCN |
| — UKMET | — CMC  | — NGPS | — OFCL |



Computer track models are getting into better agreement, with most models taking a tropical storm through the Yucatan Channel or across the Yucatan Peninsula into the south-central Gulf of Mexico by Monday.

96L

Forecast Intensity (kt)



- SHIP
- GFS
- GFDI
- HWRF
- IVCN
- CMC
- NGPS

# Summary:

- At 11am EDT Thursday, Hurricane Coleman was located approximately 90 miles north of San Juan, Puerto Rico, or about 1,015 miles southeast of Miami, Florida.
- Maximum sustained winds have decreased to 130 mph (Category 4) with higher gusts due to land interaction and increased wind shear.
- Some fluctuations in intensity are possible due to the increased wind shear, but Coleman is expected to remain a very powerful hurricane as it approaches the Bahamas.
- Tropical storm force winds extend up to 200 miles from the center and hurricane force winds extend up to 80 miles from the center.
- Computer track models remain in fairly good agreement and are very close to the previous forecast. Most of the models, including the official forecast, keeps Coleman off the Florida East Coast, but a few models do bring the center of Coleman close to or over the Florida Peninsula.
- The official forecast continues a west-northwest motion through the next 3 days, bringing Coleman into the southeastern Bahamas on Friday and through the northwestern Bahamas by Sunday.
- A turn to the north is expected on Sunday or Monday as it approaches the Southeast U.S. coast, but the cone of error ranges from Southeast Florida to the Carolinas.
- The average NHC track errors at days 4 and 5 are on the order of 175 miles and 230 miles, respectively, so it is important not to focus on the line in the middle of the forecast track.

- Invest 97L in the eastern Atlantic Ocean was upgraded to Tropical Storm Frank overnight.
- At 11am EDT Thursday, Tropical Storm Frank was located about 500 miles west of the Cape Verde Islands and moving west at 20 mph.
- Maximum sustained winds are near 50mph, but Frank is forecast to become a hurricane by this weekend before encountering more hostile conditions as it turns northwestward into the open Atlantic next week.
  
- Invest 96L is producing tropical storm force winds across portions of Jamaica, but lacks a well-defined center of circulation.
- Environmental conditions are favorable for development and the National Hurricane Center is indicating an 80% (high) chance of this system becoming a tropical storm within the next 48 hours.
- Computer track models are in better agreement, with most models taking a storm through the Yucatan Channel or across the Yucatan Peninsula into the south-central Gulf of Mexico by Monday.
- A Hurricane Hunter reconnaissance aircraft will investigate the system again this afternoon to attempt to find a defined center of circulation.
- The next name on the storm name list is Grisales.

# Florida Outlook:

- A portion of the Florida East Coast remain within the 5 day cone of error for Hurricane Coleman.
- The probability for receiving tropical storm force winds in Florida now exceeds 30% for the eastern half of the Florida Peninsula, with many coastal East Coast counties now having a 40-50% chance of tropical storm force winds within the next 5 days. These same coastal areas now have a 1 in 5 chance (20%) of receiving hurricane force winds within the next 5 days.
- No tropical storm watches or warnings are currently in effect for Florida, but could be issued sometime on Friday.
- Regardless of track, Coleman is a very large storm and it has the potential to generate gusty winds and rough seas along the East Coast of Florida, along with coastal flooding, beach erosion, and dangerous rip currents.
- The current forecast is for 1-3" of rain with isolated totals of 4-6" possible.
- Any additional or increased severity or impacts are dependent on the future track and size of the storm.
  
- It is too early to tell if Invest 96L will have any direct impacts to Florida. Any direct impacts would occur beyond the next 5 days.
- Expect at least an increase in ocean swells and wave heights early next week.
- Tropical Storm Frank does not pose a threat to Florida.