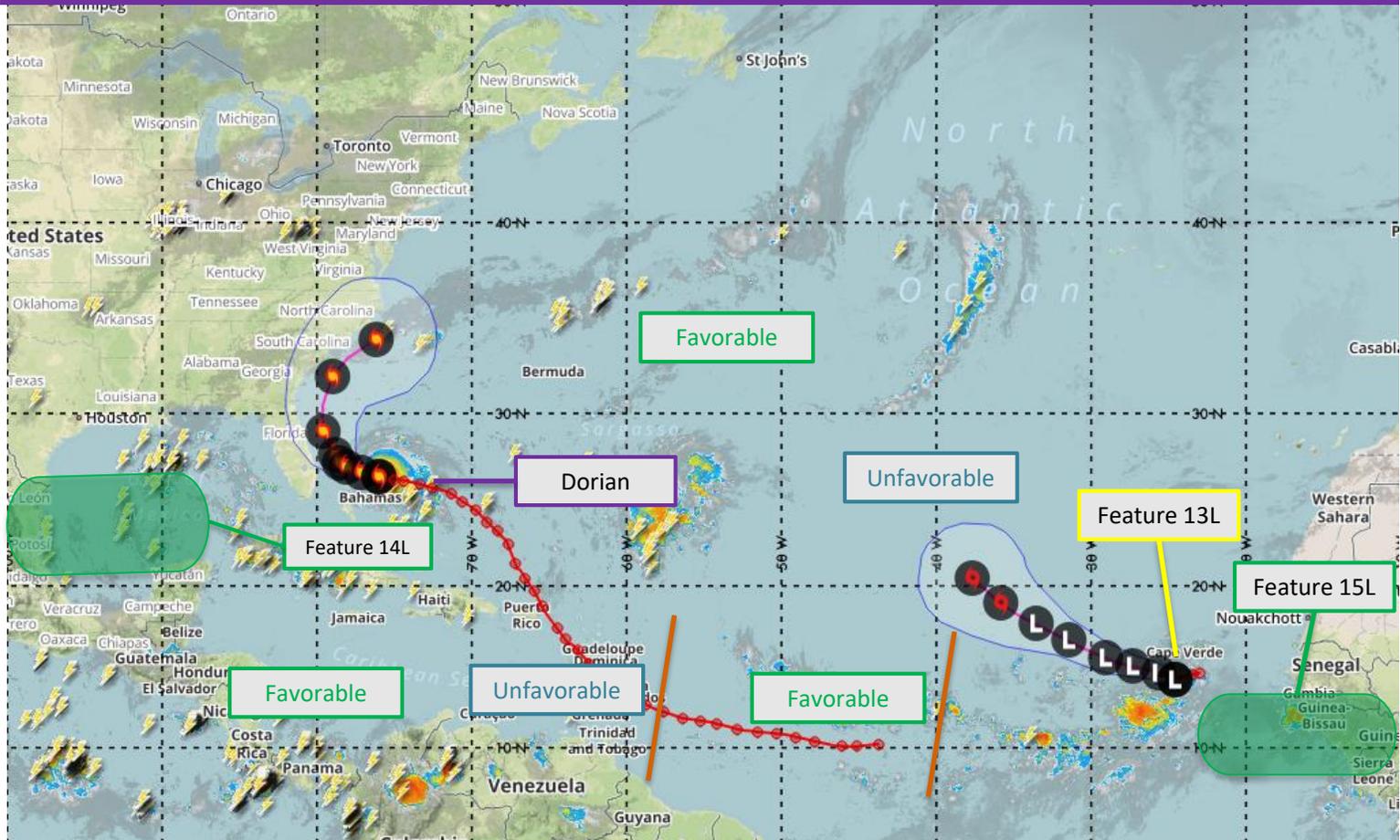


## HEADLINE

Effective: September 1, 2019 – 0500 CT / 1000 UTC

Hurricane Dorian remains a major hurricane with impacts possible along the southeastern US. Feature 13L near the Cape Verde Islands has a moderate potential for development while a low potential is forecast for Feature 14L and Feature 15L.



### Active Tropical Threats

Feature #	Name	Current Location	7-Day Development Potential	Sustained Wind	Current Movement
12L	Dorian	26.4N 76.0W	100%	130 knots	W at 7 knots
13L	Tropical Wave	14.3N 24.6W	60%	20 knots	W at 7 knots
14L	Broad Low	22.2N 89.9W	30%	15 knots	W at 11 knots
15L	Tropical Wave	10.2N 12.0W	30%	15 knots	W at 8 knots

### General Discussion

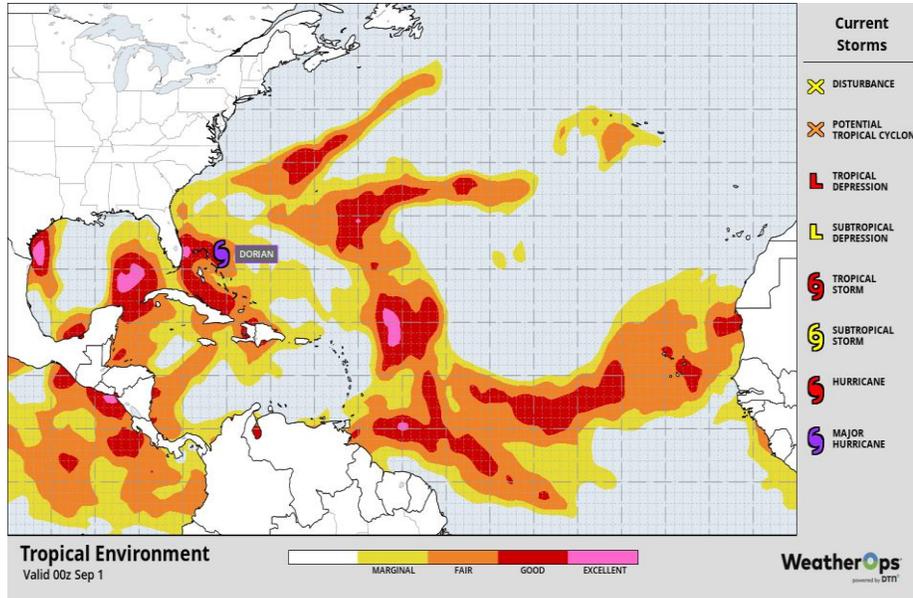
Hurricane Dorian remains a powerful category 4 hurricane. As it tracks to the west and west-northwest, it will likely bring significant impacts to the Bahamas. Most recent forecast guidance indicates Dorian turning to the north prior to reaching Florida due to the influence of a passing trough in the Southeast. However, tropical storm force conditions remain likely for the east coast of Florida due to the size of Dorian.

Feature 13L is a tropical wave over the Cape Verde Islands. This tropical wave has a moderate potential for development as it moves into somewhat favorable waters.

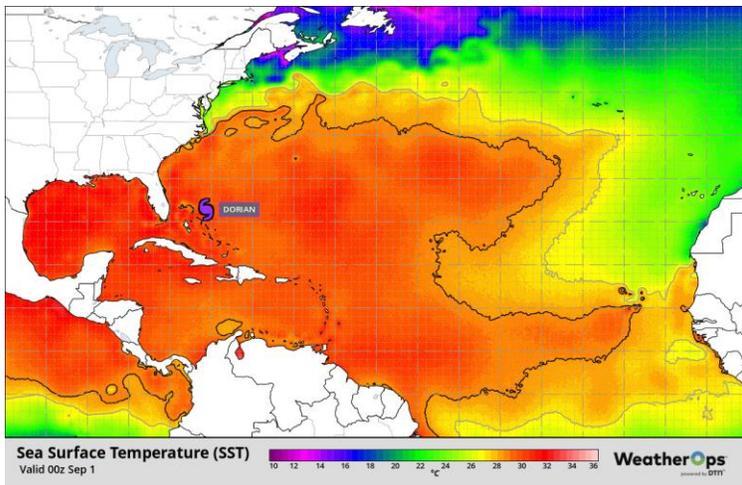
Feature 14L is a broad area of low pressure to the north of Yucatan. This low is expected to remain broad while tracking to the west through the first half of the week.

Feature 15L is currently a tropical wave over Africa. Model guidance continues to indicate the potential for development later in the week as it moves into the western Atlantic.

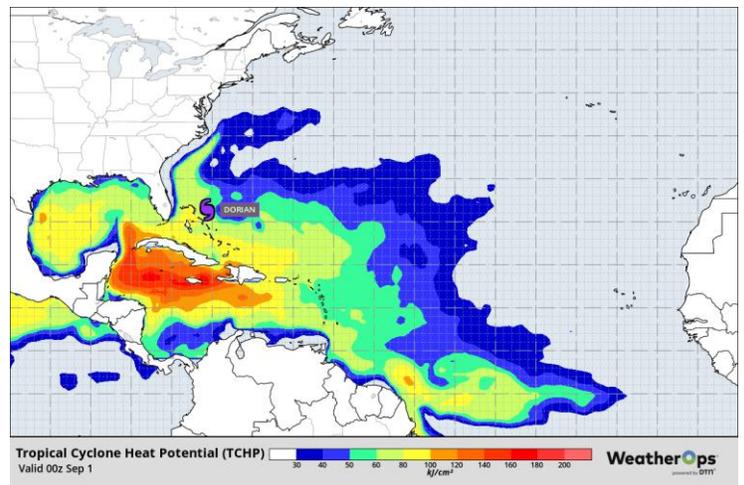
## Environmental Favorability for Tropical Cyclones



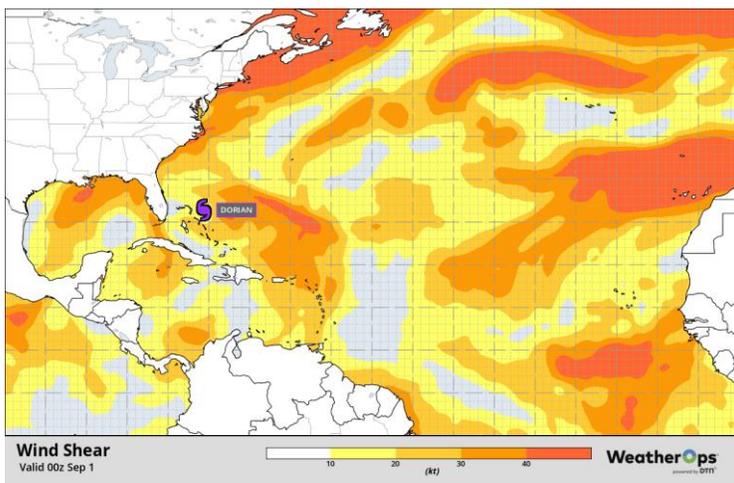
Current SST's



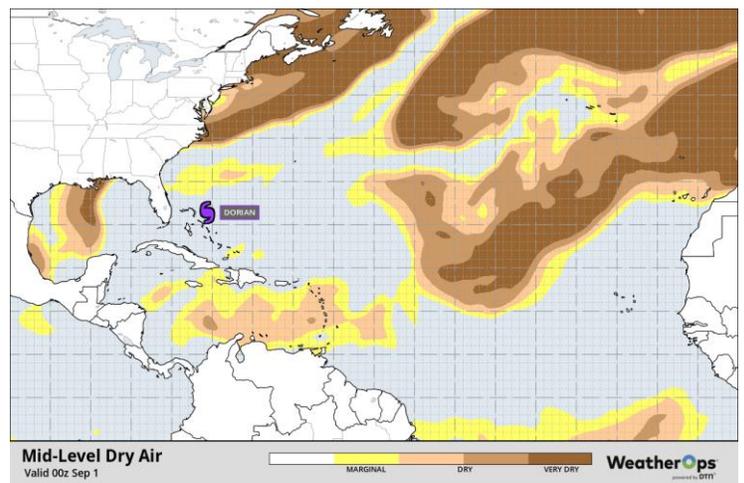
Tropical Cyclone Heat Potential



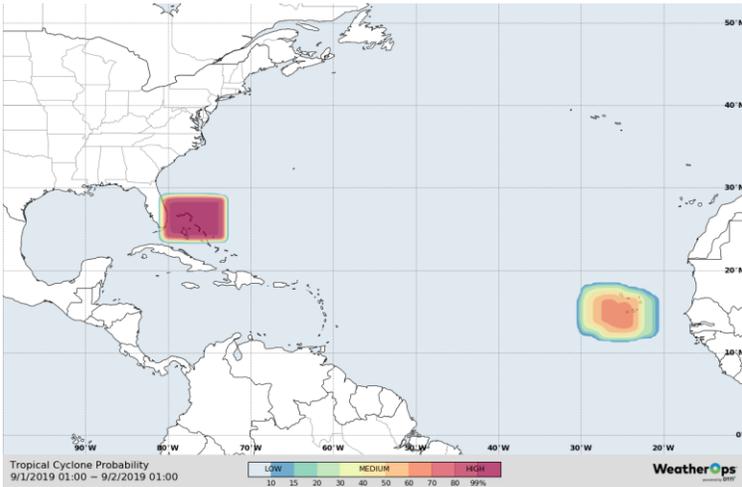
Current Wind Shear



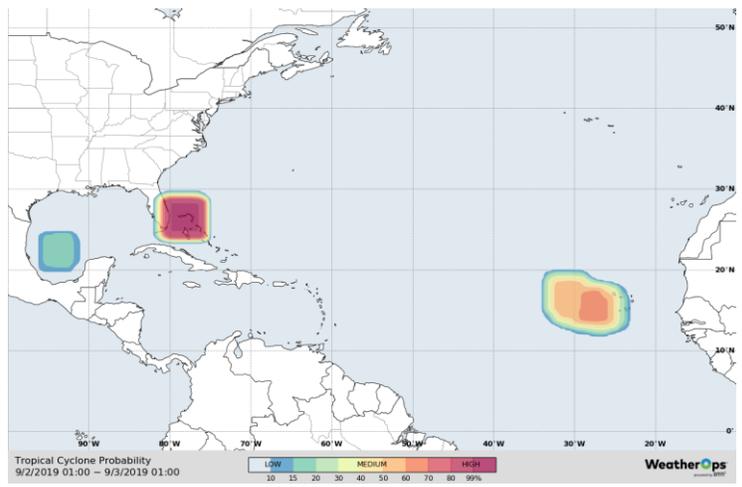
Current Mid-Level Dry Air



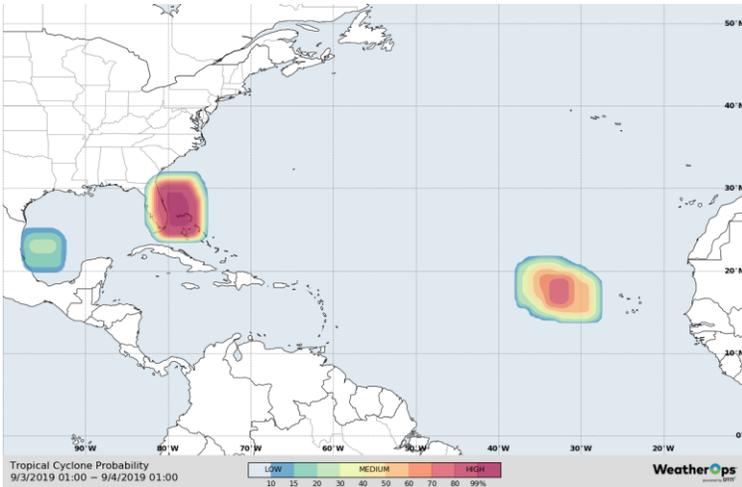
## Day 1 Tropical Cyclone Probability



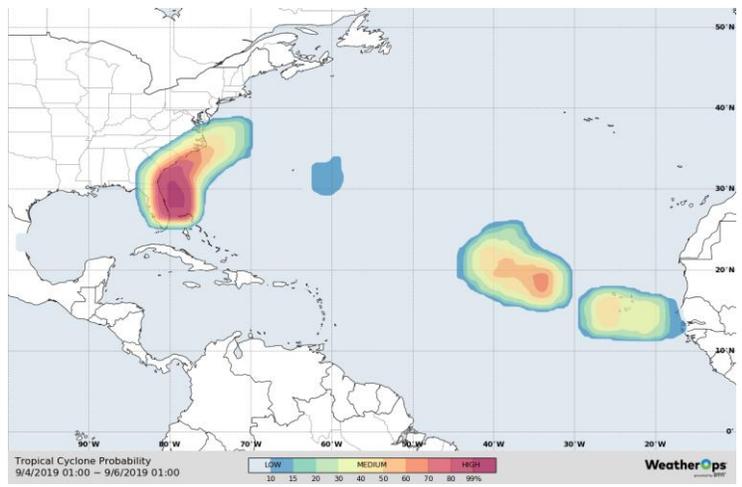
## Day 2 Tropical Cyclone Probability



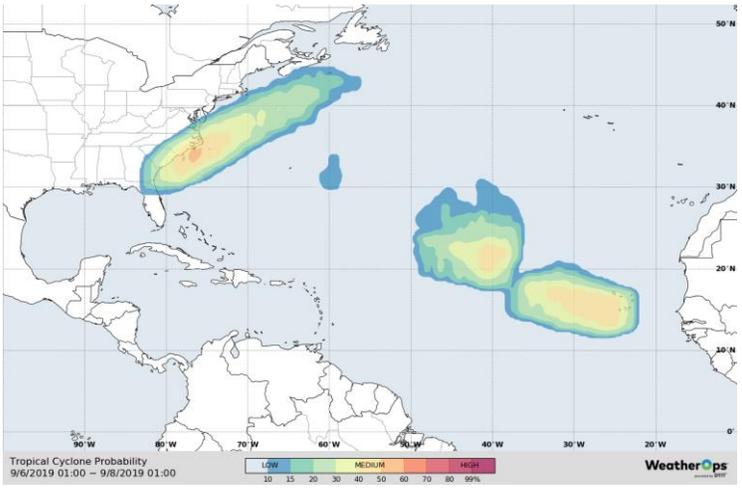
## Day 3 Tropical Cyclone Probability



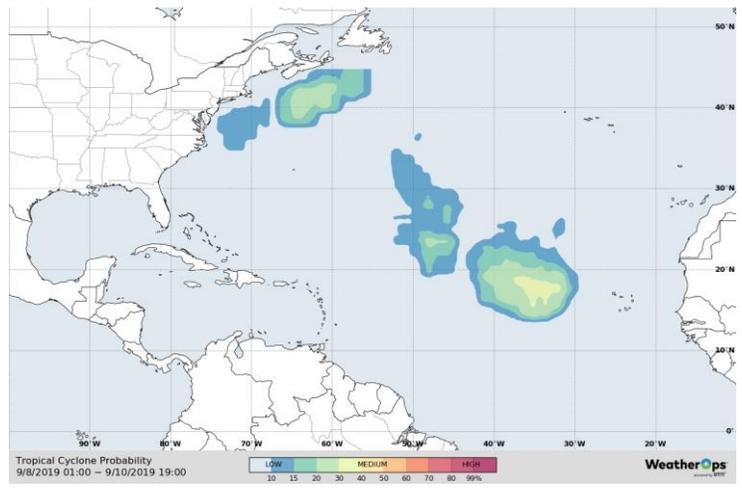
## Day 4 Tropical Cyclone Probability



## Day 5 Tropical Cyclone Probability



## Day 6 Tropical Cyclone Probability



## Hurricane Dorian

Position and Intensity	Threat Briefing
<b>Feature Center:</b> 26.4N 76.0W	Hurricane Dorian is currently a powerful category 4 hurricane. Dorian is still forecast track west to west-northwest bringing significant impacts for the Bahamas including Grand Bahama Island. Latest model guidance indicates a trough passing to the north of Dorian over the southeastern United States. This will allow Dorian to turn toward the north and north-northeast with the center of Dorian remaining just offshore the US East Coast. However, Dorian is a large system and may bring tropical storm to hurricane force conditions from the east coast of Florida to the Carolina coasts depending on the exact track of the system. Interests along the southeastern coast should monitor Dorian closely, especially the Carolinas.
<b>Current Movement:</b> W at 7 knots	
<b>Current Sustained Winds:</b> 130 knots	
<b>Current Wind Gusts:</b> 160 knots	

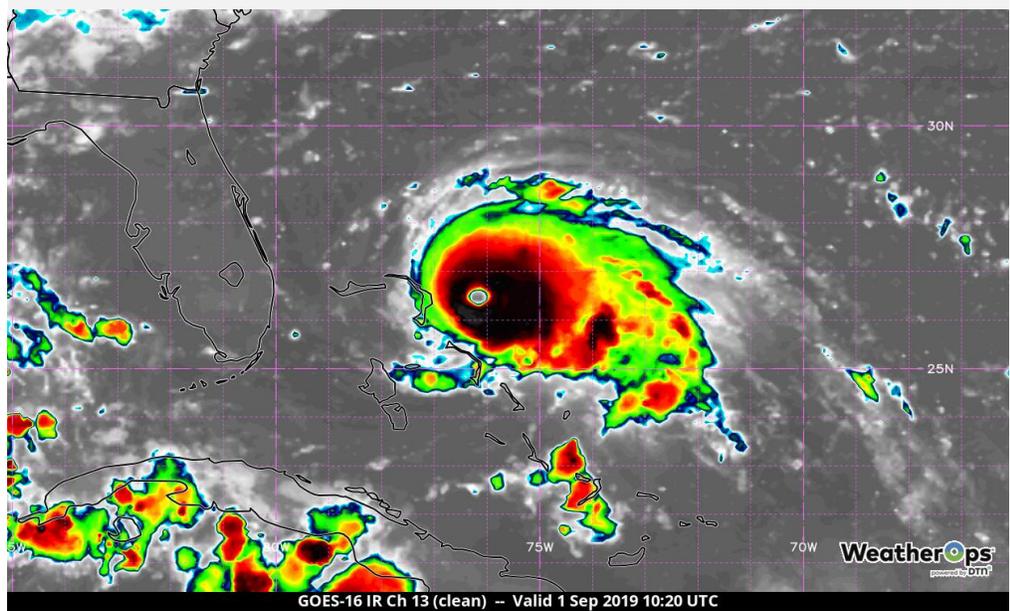
### 7 Day Development Potential

TD	100%
TS	100%
CAT 1	100%
CAT 2	100%
CAT 3	100%
CAT 4	100%
CAT 5	40%

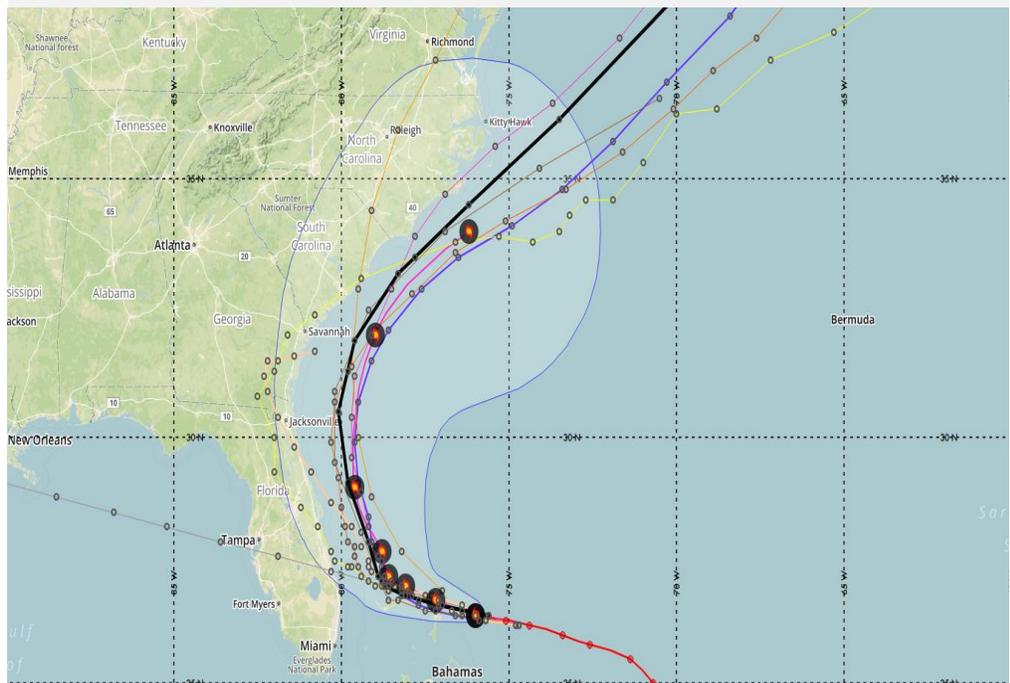
### Saffir-Simpson Scale Reference

Intensity	Wind Speed (KTS)
TD	25 - 33
TS	34 - 63
CAT 1	64 - 82
CAT 2	83 - 95
CAT 3	96 - 112
CAT 4	113 - 136
CAT 5	137 +

### Infrared Satellite Image



### Forecast Model Tracks



## Feature 13L – Tropical Wave

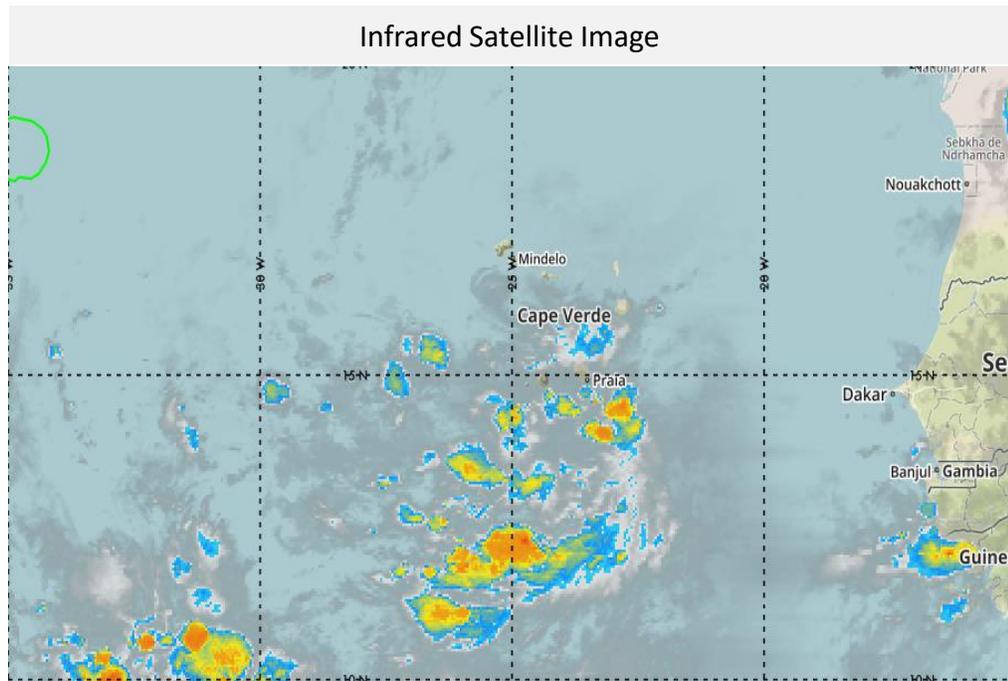
Position and Intensity	Threat Briefing
<b>Feature Center:</b> 14.3N 24.6W	Feature 13L is a tropical wave noted over the Cape Verde Islands and is accompanied by disorganized thunderstorm activity. This system is forecast to track towards the west over the next couple of days and then begin to turn towards the northwest. As the feature moves through the Atlantic, it will move into a region with favorable environmental conditions. Therefore, there is a moderate potential for development over the next several days.
<b>Current Movement:</b> W at 7 knots	
<b>Current Sustained Winds:</b> 20 knots	
<b>Current Wind Gusts:</b> 30 knots	

### 7 Day Development Potential

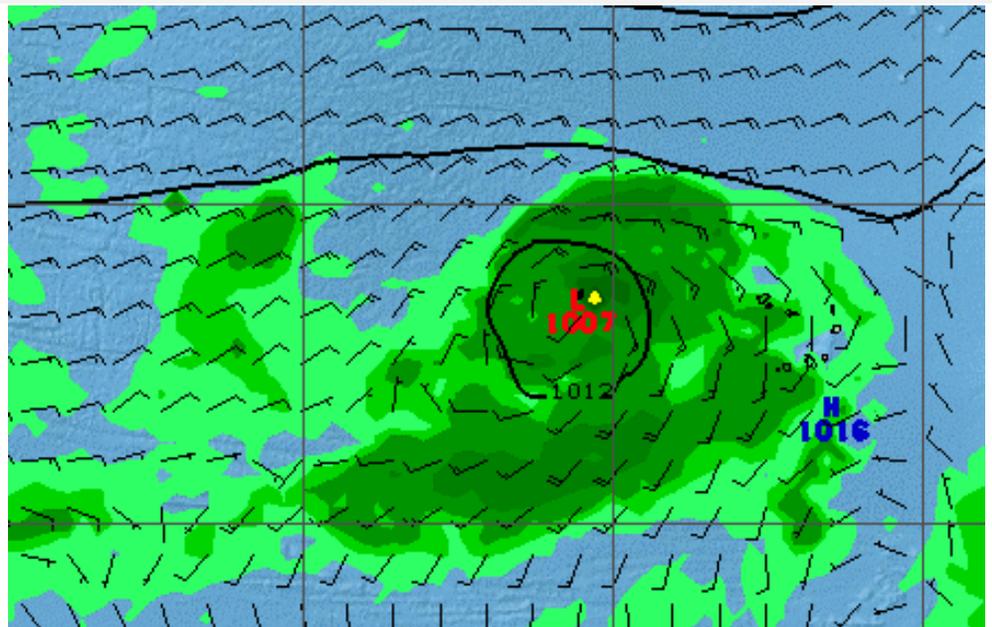
<b>TD</b>	<b>60%</b>
<b>TS</b>	<b>60%</b>
<b>CAT 1</b>	<b>10%</b>
<b>CAT 2</b>	<b>0%</b>
<b>CAT 3</b>	<b>0%</b>
<b>CAT 4</b>	<b>0%</b>
<b>CAT 5</b>	<b>0%</b>

### Saffir-Simpson Scale Reference

Intensity	Wind Speed (KTS)
<b>TD</b>	<b>25 - 33</b>
<b>TS</b>	<b>34 - 63</b>
<b>CAT 1</b>	<b>64 - 82</b>
<b>CAT 2</b>	<b>83 - 95</b>
<b>CAT 3</b>	<b>96 - 112</b>
<b>CAT 4</b>	<b>113 - 136</b>
<b>CAT 5</b>	<b>137 +</b>



ECMWF Precipitation / MSLP / Winds – 1200 UTC September 3

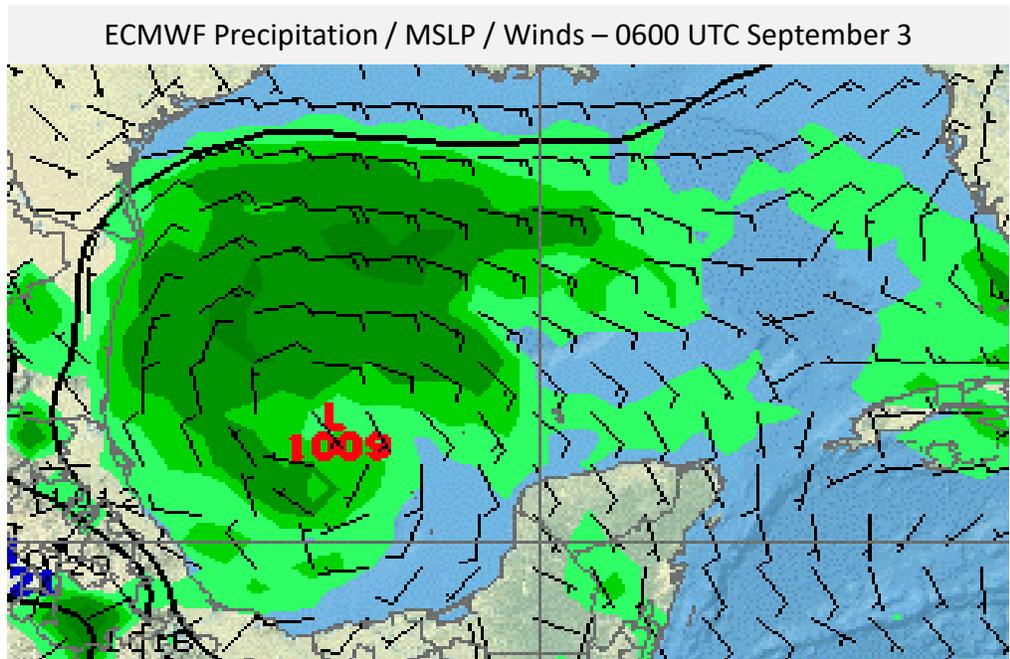
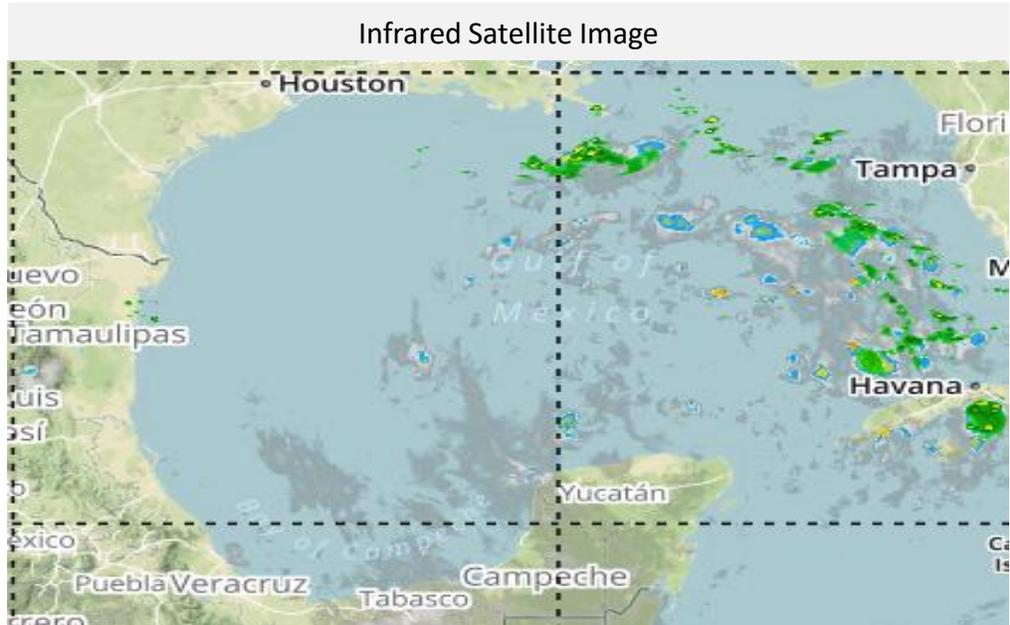


## Feature 14L – Broad Low

Position and Intensity	Threat Briefing
<b>Feature Center:</b> 22.2N 89.9W	Feature 14L remains a broad area of low pressure just north of the Yucatan. It is producing some disorganized shower and thunderstorm activity over the eastern Gulf of Mexico. This system is still forecast to track toward the west through the southern Gulf of Mexico and northern Bay of Campeche this week. Environmental conditions will be somewhat favorable for development. At this time, there is a low potential for tropical development. In order for this feature to become a tropical system, significant organization will need to occur. Feature 14L will be closely monitored.
<b>Current Movement:</b> W at 11 knots	
<b>Current Sustained Winds:</b> 15 knots	
<b>Current Wind Gusts:</b> 25 knots	

7 Day Development Potential	
TD	30%
TS	20%
CAT 1	0%
CAT 2	0%
CAT 3	0%
CAT 4	0%
CAT 5	0%

Saffir-Simpson Scale Reference	
Intensity	Wind Speed (KTS)
TD	25 - 33
TS	34 - 63
CAT 1	64 - 82
CAT 2	83 - 95
CAT 3	96 - 112
CAT 4	113 - 136
CAT 5	137 +



## Feature 15L – Tropical Wave

Position and Intensity	Threat Briefing
<b>Feature Center:</b> 10.2N 12.0W	A tropical wave, Feature 15L, is currently noted over Africa. This wave is moving west and will push offshore this week. As the wave track westward across the eastern Atlantic, it is expected to move into a favorable environment for tropical development. There is the potential for this wave to become a tropical system late in the week. Since the wave has yet to push offshore in order for it to organize, there is a low potential for tropical development at this time.
<b>Current Movement:</b> W at 8 knots	
<b>Current Sustained Winds:</b> 15 knots	
<b>Current Wind Gusts:</b> 20 knots	

7 Day Development Potential	
<b>TD</b>	<b>30%</b>
<b>TS</b>	<b>30%</b>
<b>CAT 1</b>	<b>0%</b>
<b>CAT 2</b>	<b>0%</b>
<b>CAT 3</b>	<b>0%</b>
<b>CAT 4</b>	<b>0%</b>
<b>CAT 5</b>	<b>0%</b>

Saffir-Simpson Scale Reference	
Intensity	Wind Speed (KTS)
<b>TD</b>	<b>25 - 33</b>
<b>TS</b>	<b>34 - 63</b>
<b>CAT 1</b>	<b>64 - 82</b>
<b>CAT 2</b>	<b>83 - 95</b>
<b>CAT 3</b>	<b>96 - 112</b>
<b>CAT 4</b>	<b>113 - 136</b>
<b>CAT 5</b>	<b>137 +</b>

