

# Planned Ship Route & Forecast

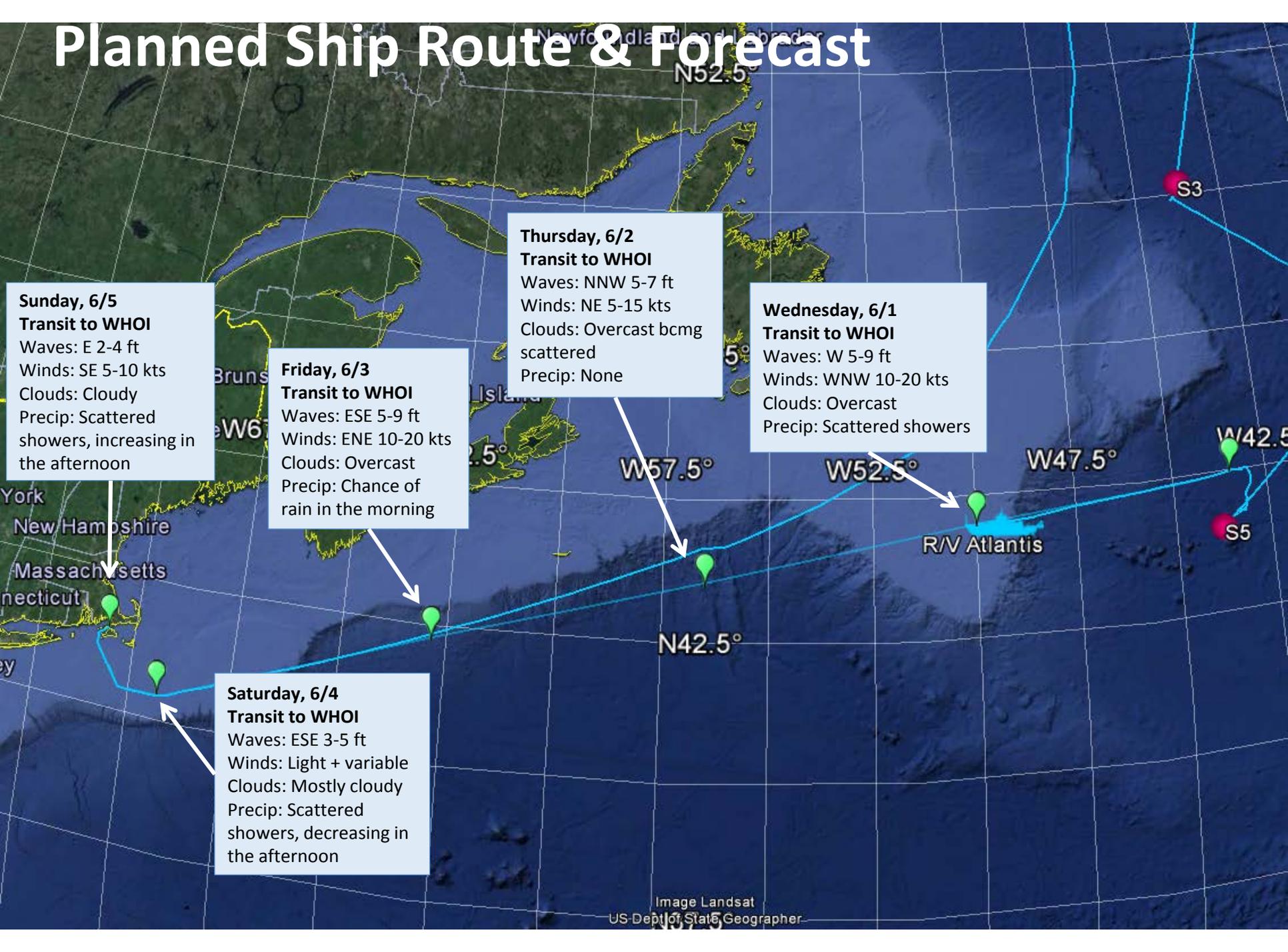
**Sunday, 6/5**  
**Transit to WHOI**  
Waves: E 2-4 ft  
Winds: SE 5-10 kts  
Clouds: Cloudy  
Precip: Scattered showers, increasing in the afternoon

**Friday, 6/3**  
**Transit to WHOI**  
Waves: ESE 5-9 ft  
Winds: ENE 10-20 kts  
Clouds: Overcast  
Precip: Chance of rain in the morning

**Thursday, 6/2**  
**Transit to WHOI**  
Waves: NNW 5-7 ft  
Winds: NE 5-15 kts  
Clouds: Overcast bcmg scattered  
Precip: None

**Wednesday, 6/1**  
**Transit to WHOI**  
Waves: W 5-9 ft  
Winds: WNW 10-20 kts  
Clouds: Overcast  
Precip: Scattered showers

**Saturday, 6/4**  
**Transit to WHOI**  
Waves: ESE 3-5 ft  
Winds: Light + variable  
Clouds: Mostly cloudy  
Precip: Scattered showers, decreasing in the afternoon



# Forecast Summary

## **Day 1 (Thursday) – June 2**

**Ship: in transit to WHOI, C-130: Pack day**

St. John's: Generally sunny despite a few afternoon clouds. High 47F. Winds NNW at 15 to 25 mph.

## **Day 2 (Friday) – June 3**

**Ship: in transit to WHOI, C-130: Science transit to LaRC**

St. John's: Generally sunny. High 52F. Winds NNW at 5 to 10 mph.

LaRC: Scattered showers and thunderstorms. High 81F. Winds E at 5 to 10 mph. Chance of rain 50%.

## **Day 3 (Saturday) – June 4**

**Ship: in transit to WHOI, C-130: Deintegrate AATS-14**

St. John's: Cloudy early with partial sunshine expected late. High near 50F. Winds NNE at 5 to 10 mph.

LaRC: Isolated t-storms in the AM, partly cloudy later in the day. High 82F. Winds NE at 5 to 10 mph. Chance of rain 30%.

## **Day 4 (Sunday) – June 5**

**Ship: arriving at WHOI, C-130: None**

LaRC: Scattered t-storms in the morning, mainly cloudy in the afternoon with t-storms likely. High 83F. Winds SW at 10 to 20 mph. Chance of rain 90%.

WHOI: Showers early, becoming a steady rain later in the day. High 67F. Winds SSE at 10 to 15 mph. Chance of rain 80%.

## **Day 5 (Monday) – June 6**

**Ship: DMOB, C-130: Deintegration**

LaRC: Mainly sunny. High 83F. Winds WSW at 10 to 15 mph.

WHOI: Chance of a showers in the morning, partly cloudy in the afternoon. High 69F. Winds SW at 15 to 25 mph. Chance of rain 30%.

**CALIPSO tracks through domain on 1<sup>st</sup> and 3<sup>rd</sup>.**

# Forecast

St. John's

Wednesday 6/1

Thursday 6/2

Friday 6/3

Saturday 6/4

<p><b>1</b> Fog </p> <p>Forecast: <b>51°</b>   <b>33°</b>   0.0 in</p> <p>Average: <b>52°</b>   <b>36°</b>   0.11 in</p>	<p><b>2</b> Clear </p> <p>Forecast: <b>47°</b>   <b>34°</b>   0.0 in</p> <p>Average: <b>52°</b>   <b>36°</b>   0.10 in</p>	<p><b>3</b> Clear </p> <p>Forecast: <b>52°</b>   <b>36°</b>   0.0 in</p> <p>Average: <b>52°</b>   <b>36°</b>   0.10 in</p>	<p><b>4</b> Partly Cloudy </p> <p>Forecast: <b>50°</b>   <b>37°</b>   0.03 in</p> <p>Average: <b>52°</b>   <b>36°</b>   0.11 in</p>
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Sunday 6/5

Sunday 6/5

<p><b>3</b> Chance of a Thunderstorm </p> <p>Forecast: <b>81°</b>   <b>69°</b>   0.29 in</p> <p>Average: <b>78°</b>   <b>62°</b>   0.16 in</p>	<p><b>4</b> Chance of a Thunderstorm </p> <p>Forecast: <b>82°</b>   <b>70°</b>   0.22 in</p> <p>Average: <b>78°</b>   <b>63°</b>   0.15 in</p>	<p><b>5</b> Thunderstorm </p> <p>Forecast: <b>83°</b>   <b>68°</b>   0.64 in</p> <p>Average: <b>79°</b>   <b>63°</b>   0.25 in</p>	<p><b>6</b> Clear </p> <p>Forecast: <b>83°</b>   <b>66°</b>   0.0 in</p> <p>Average: <b>80°</b>   <b>63°</b>   0.05 in</p>
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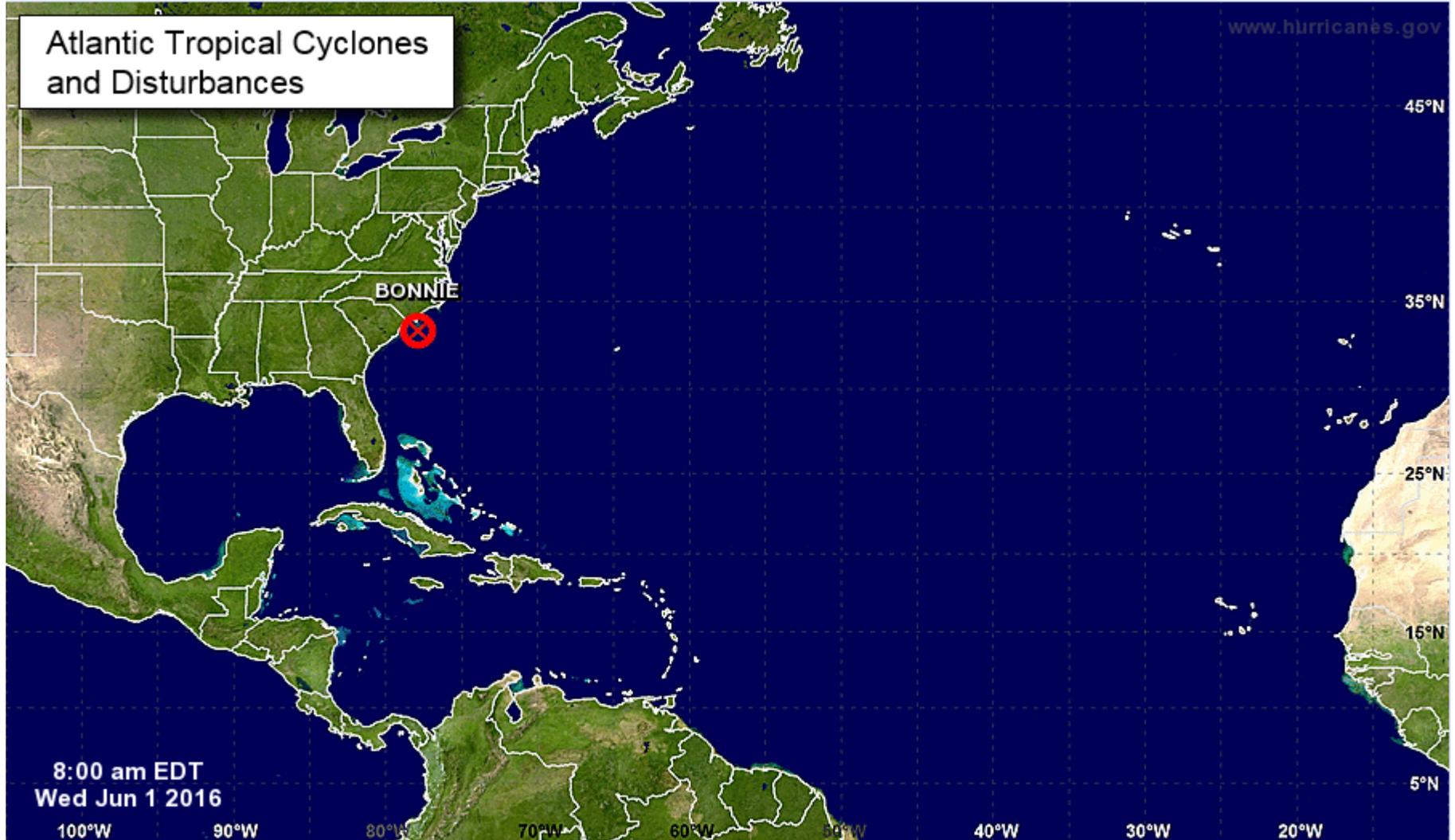
Monday 6/6

LaRC

WHOI

<p><b>5</b> Rain </p> <p>Forecast: <b>69°</b>   <b>61°</b>   0.52 in</p> <p>Average: <b>68°</b>   <b>52°</b>   0.11 in</p>	<p><b>6</b> Chance of Rain </p> <p>Forecast: <b>71°</b>   <b>59°</b>   0.01 in</p> <p>Average: <b>68°</b>   <b>52°</b>   0.21 in</p>	<p><b>7</b> Partly Cloudy </p> <p>Forecast: <b>70°</b>   <b>57°</b>   0.0 in</p> <p>Average: <b>69°</b>   <b>52°</b>   0.13 in</p>
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# Post-Tropical Cyclone Bonnie

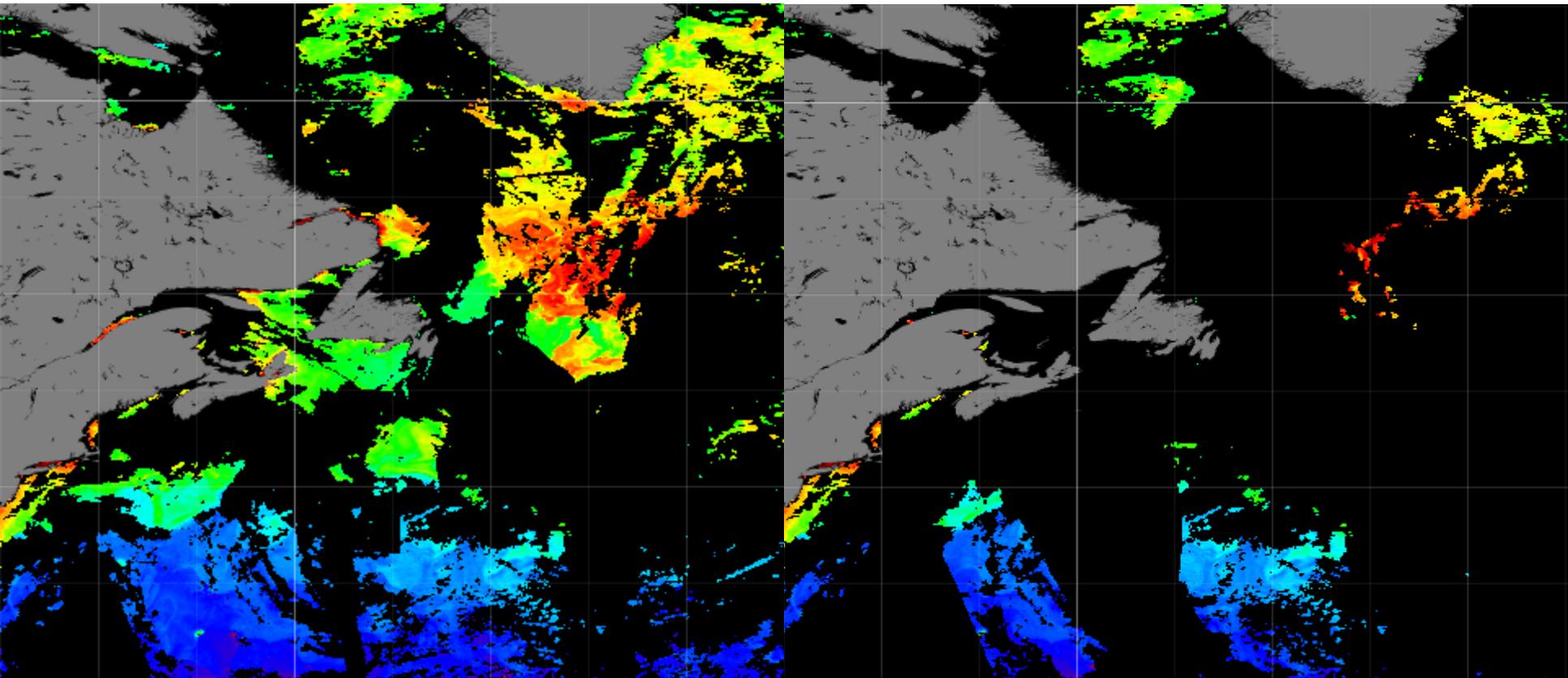


Current Disturbances and Two-Day Cyclone Formation Chance: ✘ < 40% ✘ 40-60% ✘ > 60%  
Tropical or Sub-Tropical Cyclone: ○ Depression 🌀 Storm 🌀 Hurricane  
⊗ Post-Tropical Cyclone ✘ Remnants

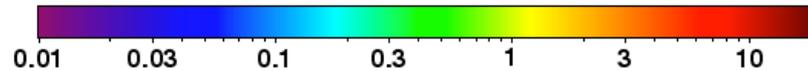
# MODIS Aqua Chlorophyll

May 29-31, 2016

May 31, 2016

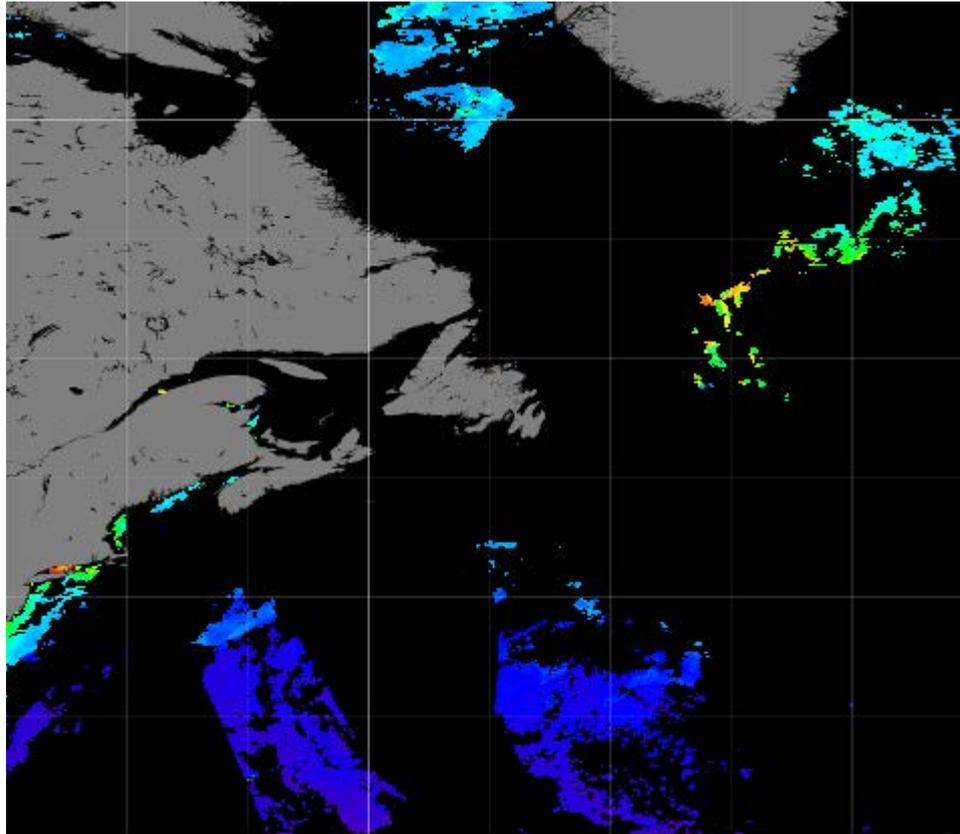


Chlorophyll a concentration ( mg / m<sup>3</sup> )

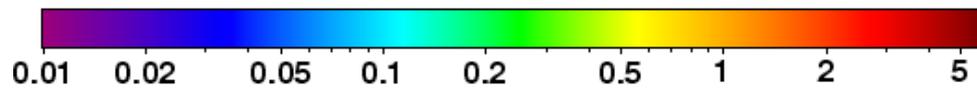


# MODIS Aqua Kd

May 31, 2016



Diffuse attenuation coefficient at 490 nm ( $m^{-1}$ )



# Surface Analysis

