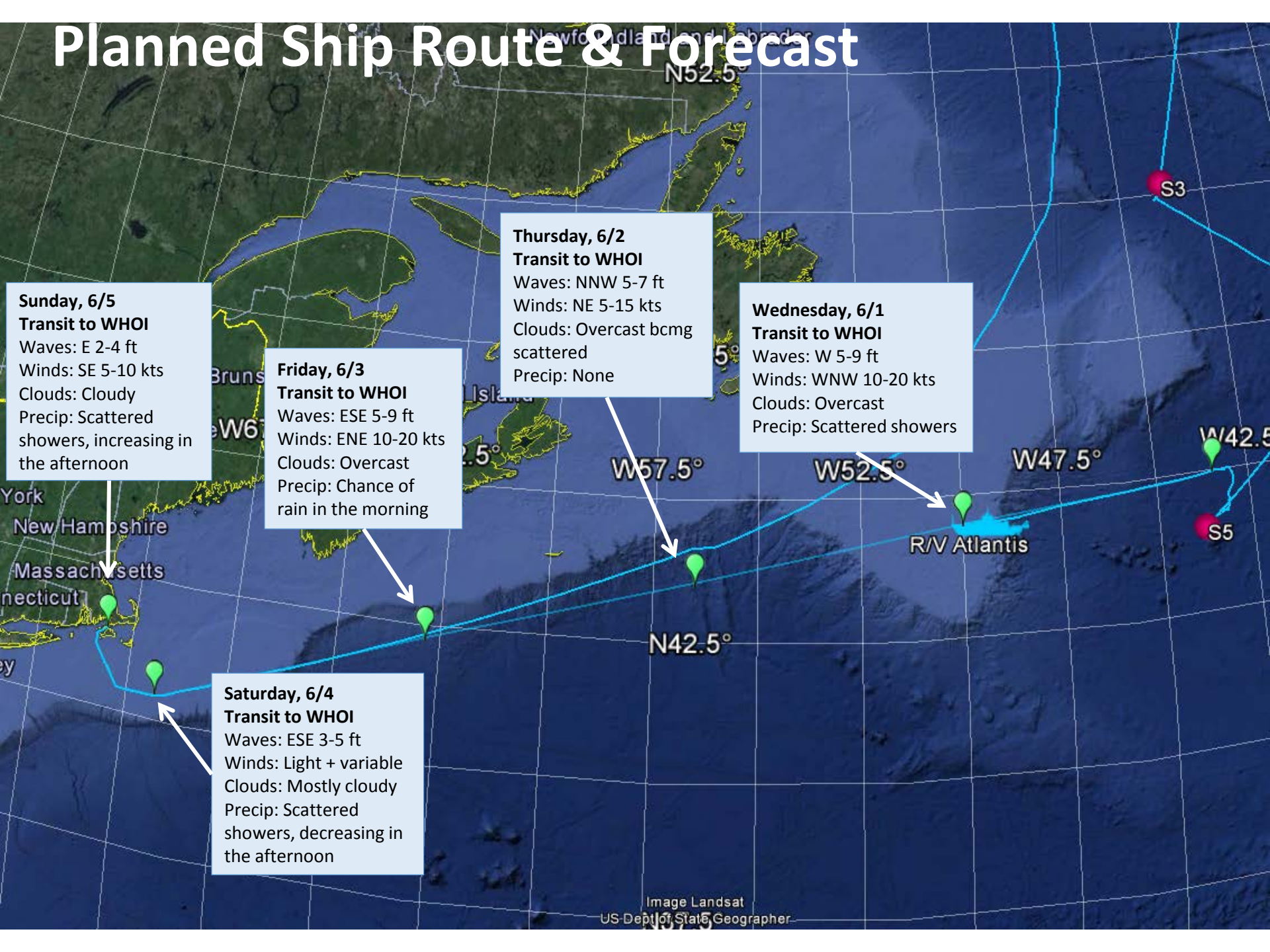


# Planned Ship Route & Forecast



# 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
1 Fog  Forecast: 51°   33° 0.0 in Average: 52°   36° 0.11 in	2 Clear  Forecast: 47°   34° 0.0 in Average: 52°   36° 0.10 in	3 Clear  Forecast: 52°   36° 0.0 in Average: 52°   36° 0.10 in	4 Partly Cloudy  Forecast: 50°   37° 0.03 in Average: 52°   36° 0.11 in

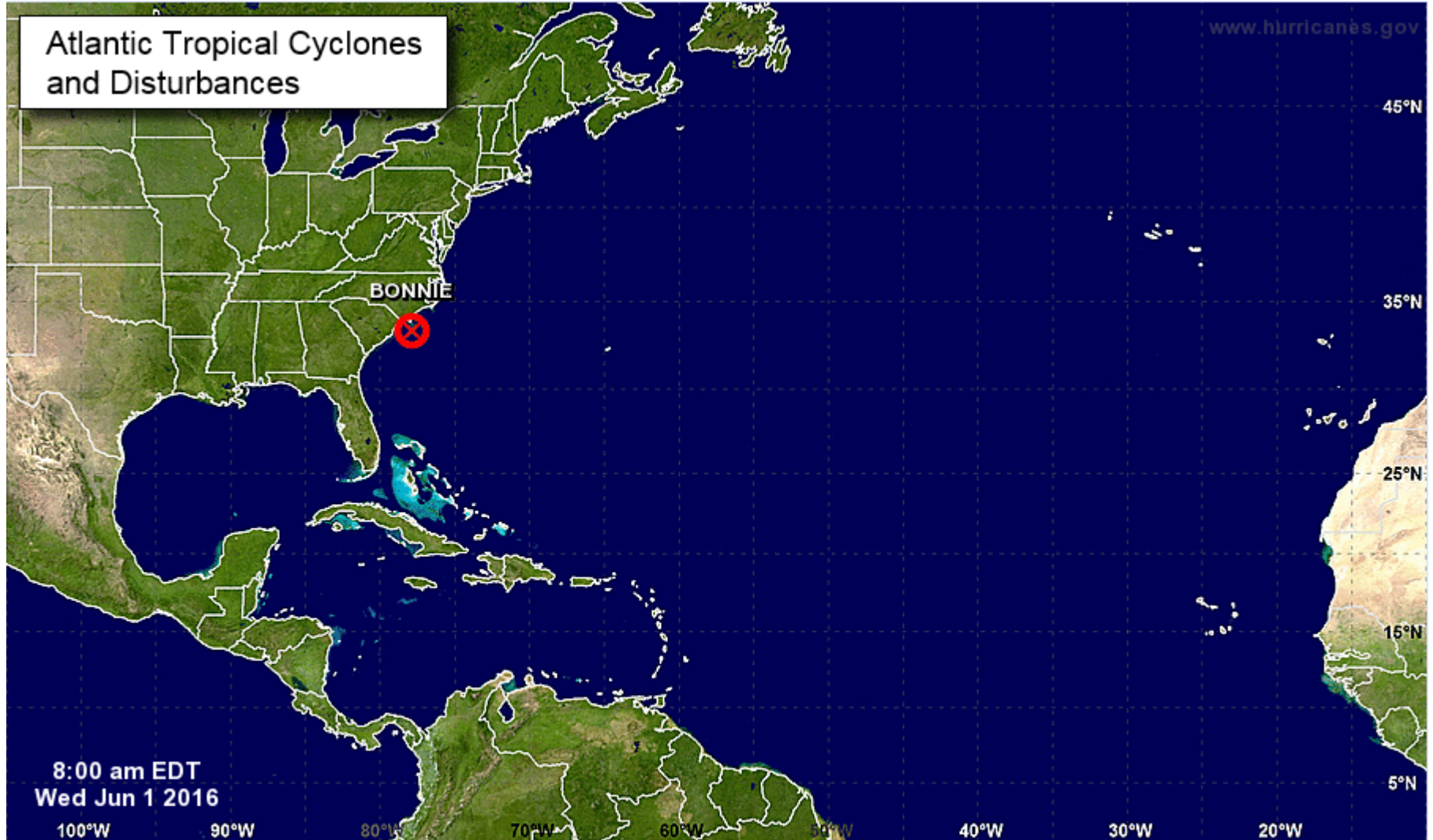
LaRC

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

WHOI

Sunday 6/5	Monday 6/6
5 Rain  Forecast: 69°   61° 0.52 in Average: 68°   52° 0.11 in	6 Chance of Rain  Forecast: 71°   59° 0.01 in Average: 68°   52° 0.21 in
	7 Partly Cloudy  Forecast: 70°   57° 0.0 in Average: 69°   52° 0.13 in

# Post-Tropical Cyclone Bonnie



Current Disturbances and Two-Day Cyclone Formation Chance: ✖ < 40% ✖ 40-60% ✖ > 60%

Tropical or Sub-Tropical Cyclone: ○ Depression 🌀 Storm 🌀 Hurricane

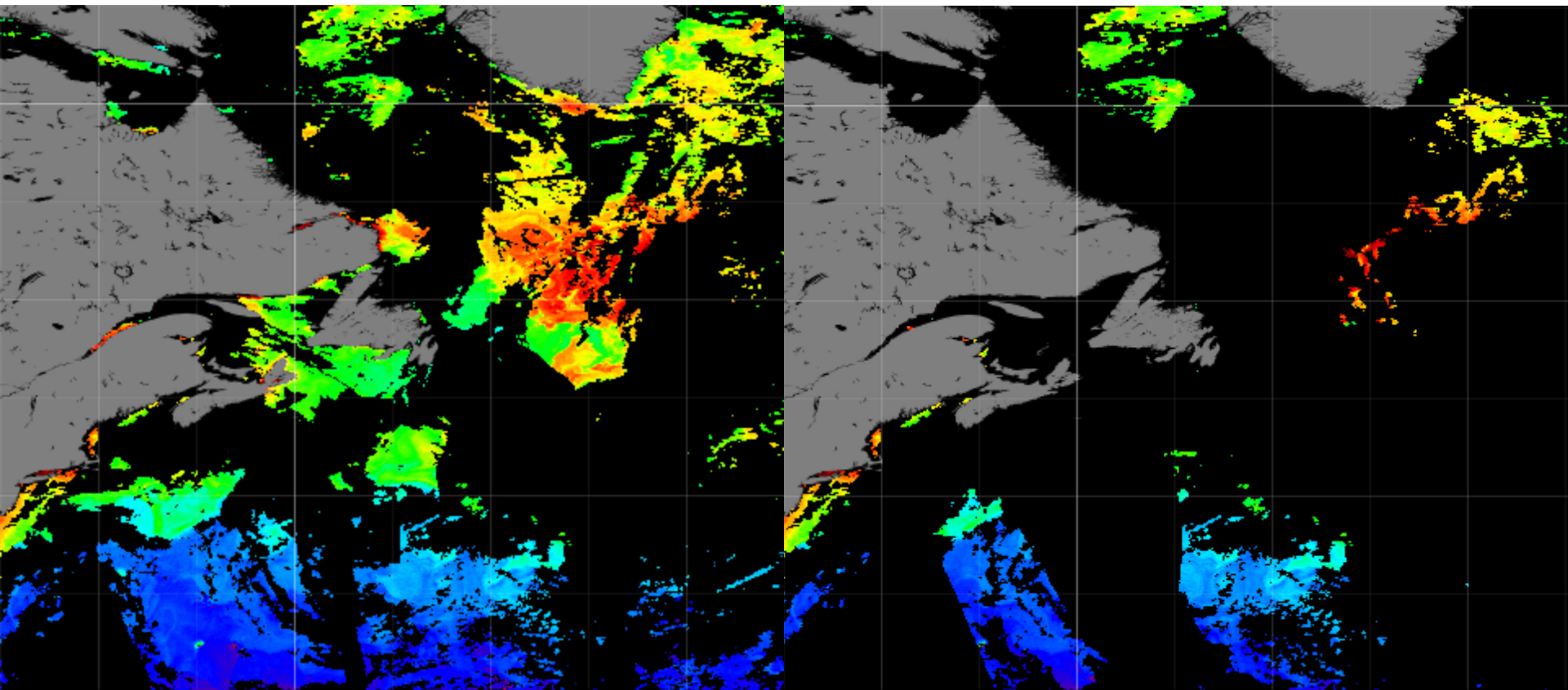
⊗ Post-Tropical Cyclone ✖ Remnants



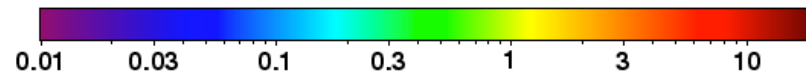
# MODIS Aqua Chlorophyll

May 29-31, 2016

May 31, 2016

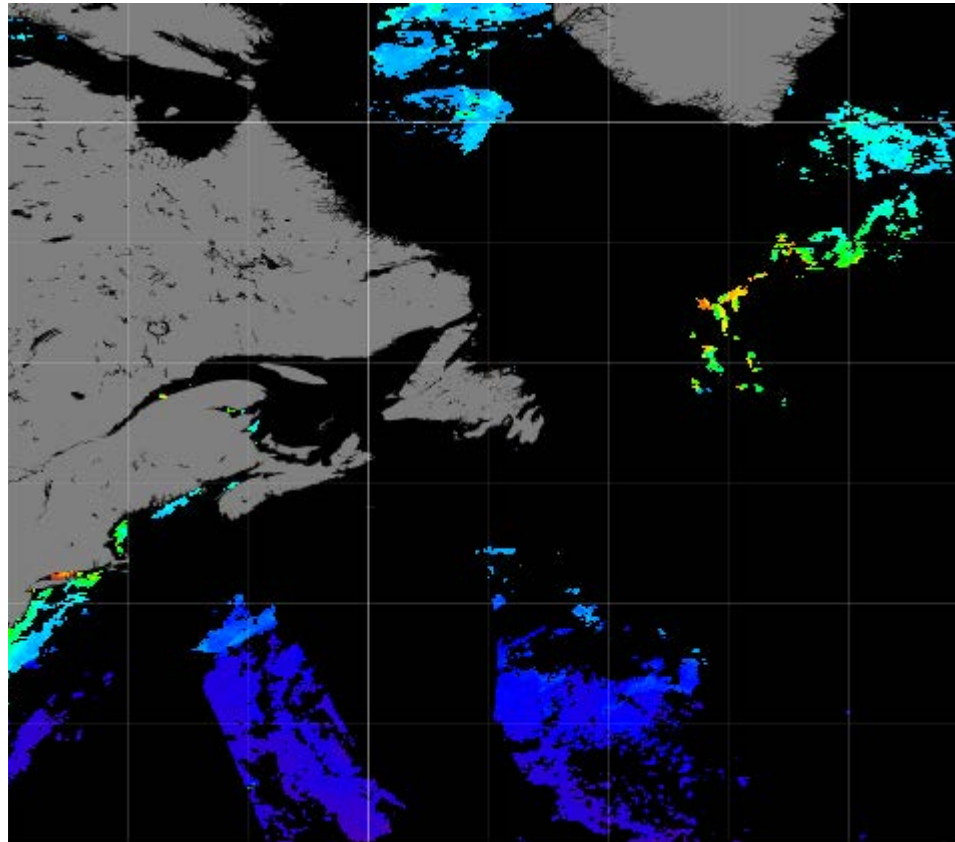


Chlorophyll a concentration ( mg / m<sup>3</sup> )

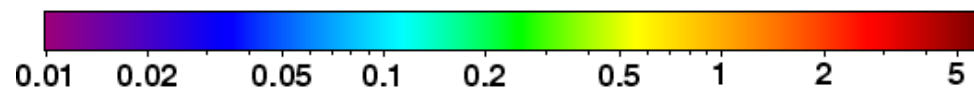


# MODIS Aqua Kd

## May 31, 2016



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



# Surface Analysis

