

# Planned Ship Route & Forecast

**Sunday, 6/5**  
**Transit to WHOI**  
Waves: E 3-5 ft  
Winds: S 5-10 kts  
Clouds: Mostly cloudy  
Precip: None

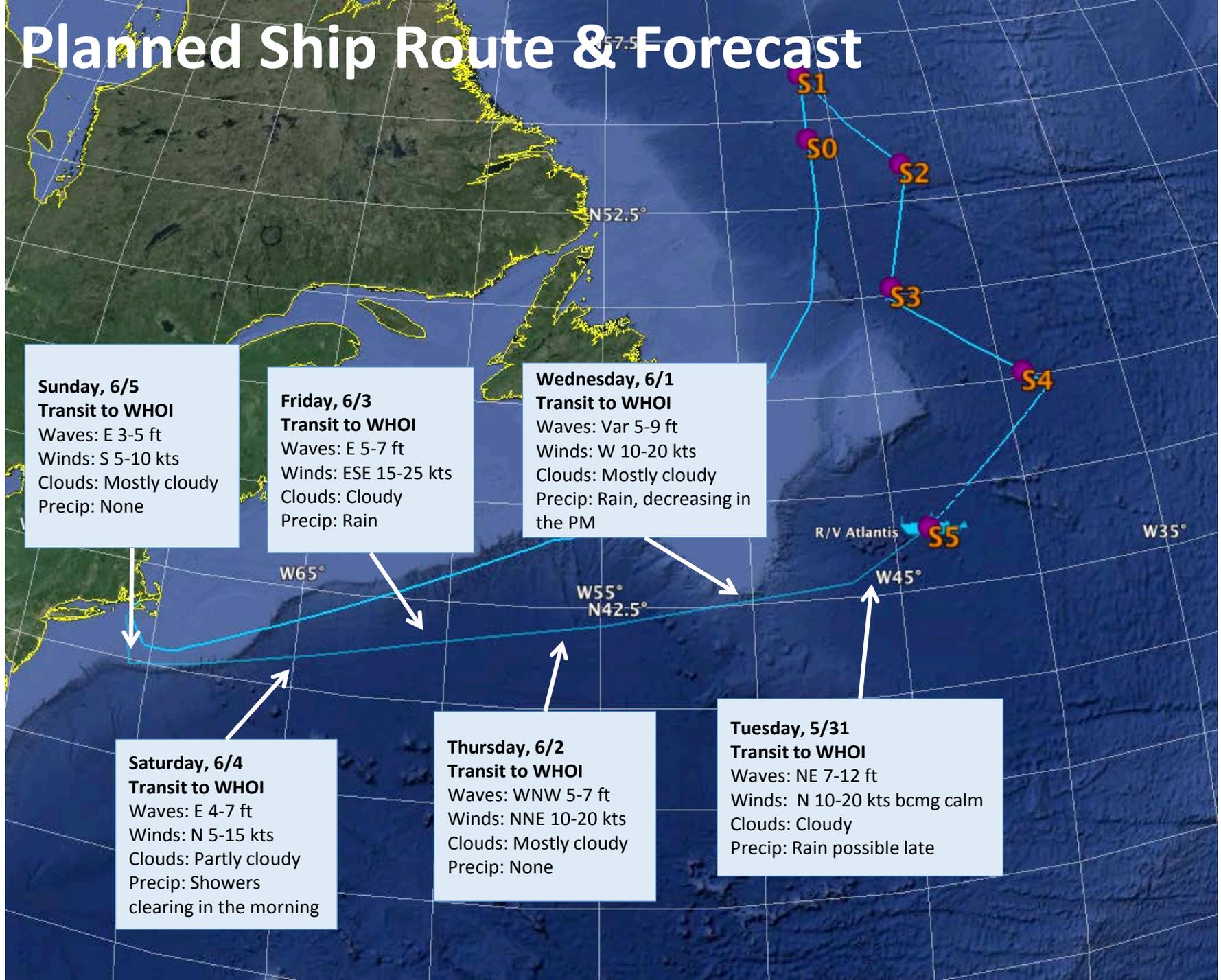
**Friday, 6/3**  
**Transit to WHOI**  
Waves: E 5-7 ft  
Winds: ESE 15-25 kts  
Clouds: Cloudy  
Precip: Rain

**Wednesday, 6/1**  
**Transit to WHOI**  
Waves: Var 5-9 ft  
Winds: W 10-20 kts  
Clouds: Mostly cloudy  
Precip: Rain, decreasing in the PM

**Saturday, 6/4**  
**Transit to WHOI**  
Waves: E 4-7 ft  
Winds: N 5-15 kts  
Clouds: Partly cloudy  
Precip: Showers clearing in the morning

**Thursday, 6/2**  
**Transit to WHOI**  
Waves: WNW 5-7 ft  
Winds: NNE 10-20 kts  
Clouds: Mostly cloudy  
Precip: None

**Tuesday, 5/31**  
**Transit to WHOI**  
Waves: NE 7-12 ft  
Winds: N 10-20 kts bcmg calm  
Clouds: Cloudy  
Precip: Rain possible late



# Forecast Summary

## **Day 1 (Tuesday) – May 31**

**Recommendation: Ship in transit to WHOI**

St. John's: Cloudy. Gusty winds in the morning. High near 60F. Winds SSE at 20 to 30 mph.

## **Day 2 (Wednesday) – June 1**

**Recommendation: Ship in transit to WHOI**

St. John's: Showers in the morning becoming widely scattered in the afternoon. Becoming windy. High 48F. Winds NNW at 20 to 30 mph. Chance of rain 40%.

## **Day 3 (Thursday) – June 2**

**Recommendation: Ship in transit to WHOI**

St. John's: Sunshine and clouds mixed. High near 45F. Winds NNW at 15 to 25 mph.

## **Day 4 (Friday) – June 3**

**Recommendation: Ship in transit to WHOI**

St. John's: Except for a few afternoon clouds, mainly sunny. High around 50F. Winds NNW at 10 to 15 mph.

## **Day 5 (Saturday) – June 4**

**Recommendation: Ship in transit to WHOI**

St. John's: Except for a few afternoon clouds, mainly sunny. High 52F. Winds SSW at 5 to 10 mph.

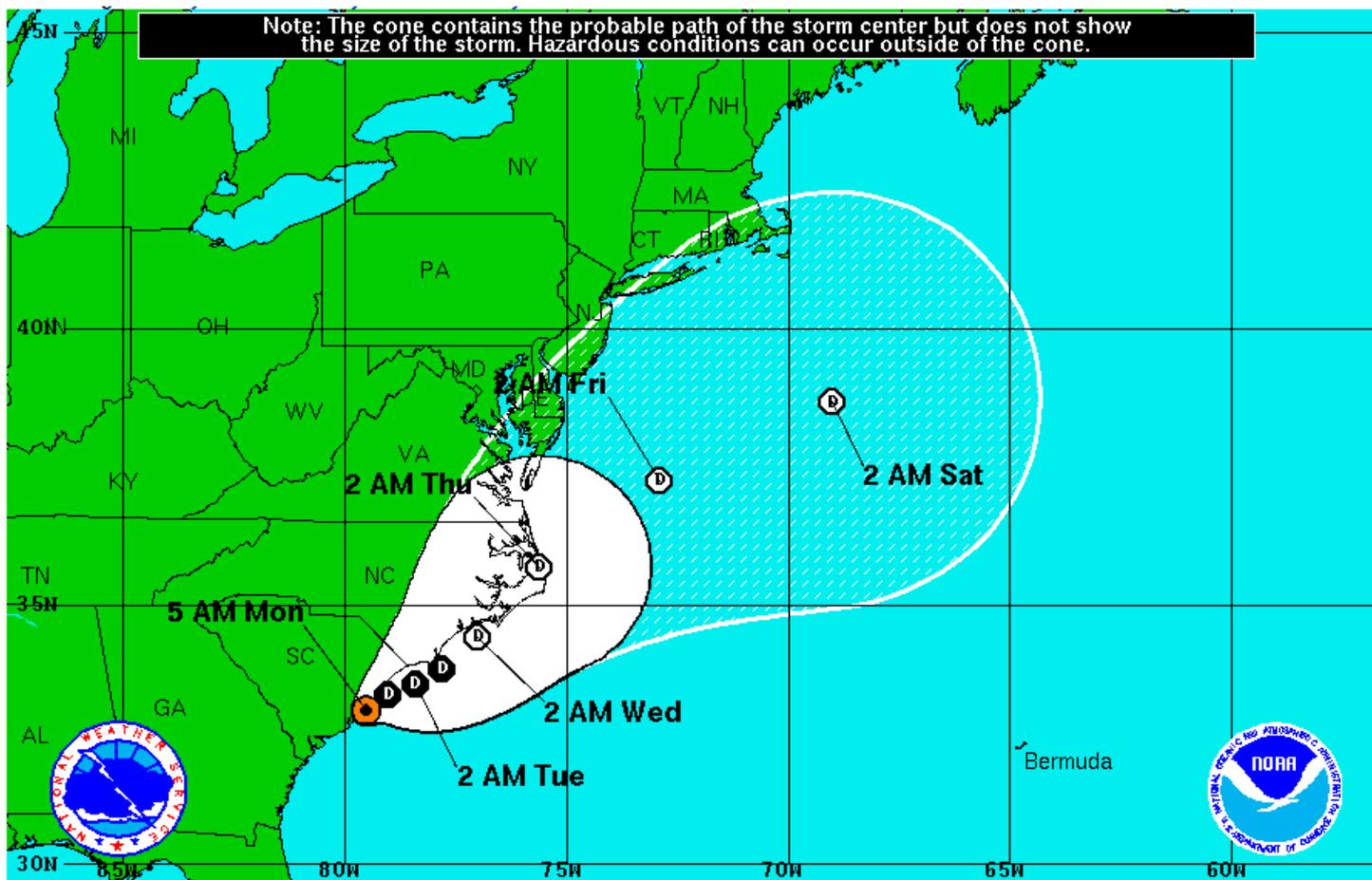
## **Day 6 (Sunday) – June 5**

**Recommendation: Ship arriving at WHOI**

LaRC: Sunshine and clouds mixed. High 83F. Winds S at 5 to 10 mph.

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

# TD Bonnie



## Tropical Depression Bonnie

Monday May 30, 2016

5 AM EDT Advisory 11

NWS National Hurricane Center

**Current Information:** ●  
 Center Location 33.0 N 79.5 W  
 Max Sustained Wind 30 mph  
 Movement NE at 3 mph

## Forecast Positions:

● Tropical Cyclone ○ Post-Tropical  
 Sustained Winds: D < 39 mph  
 S 39-73 mph H 74-110 mph M > 110mph

## Potential Track Area:

▤ Day 1-3 ▥ Day 4-5

## Watches:

▨ Hurricane ▨ Trop.Storm

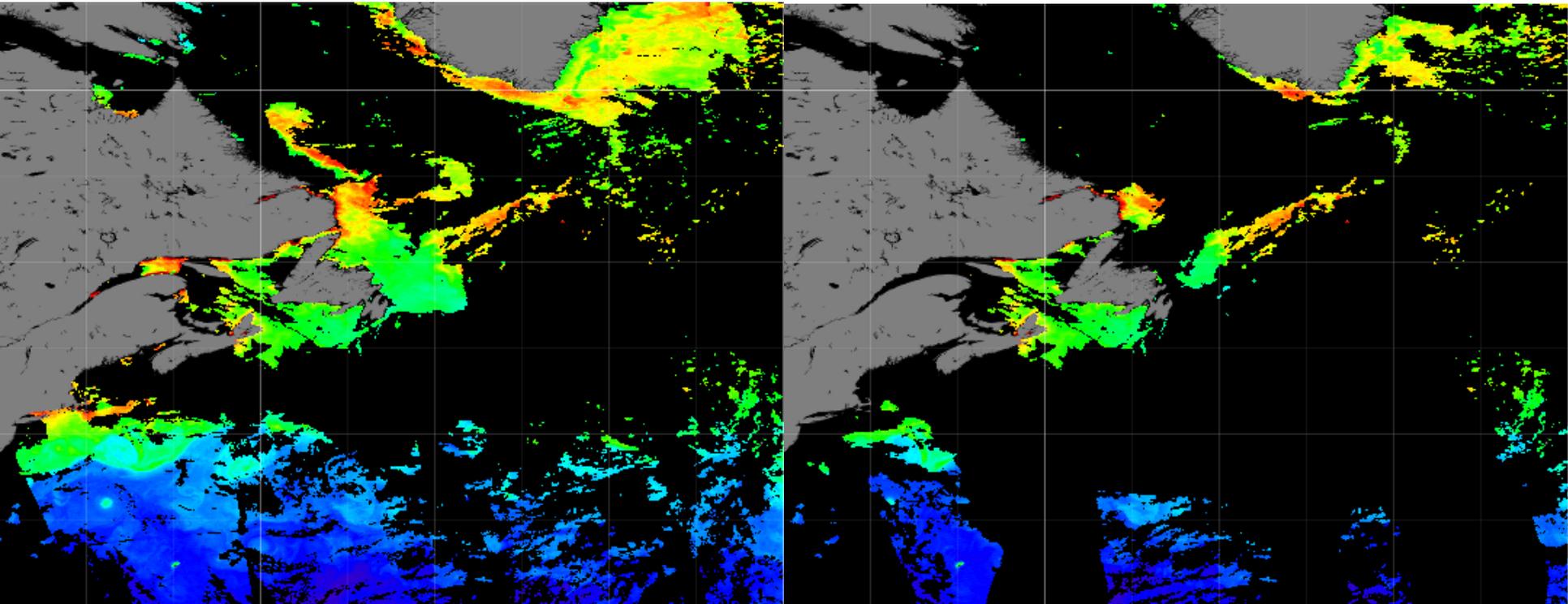
## Warnings:

▨ Hurricane ▨ Trop.Storm

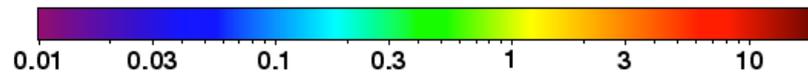
# MODIS Aqua Chlorophyll

May 27-29, 2016

May 29, 2016

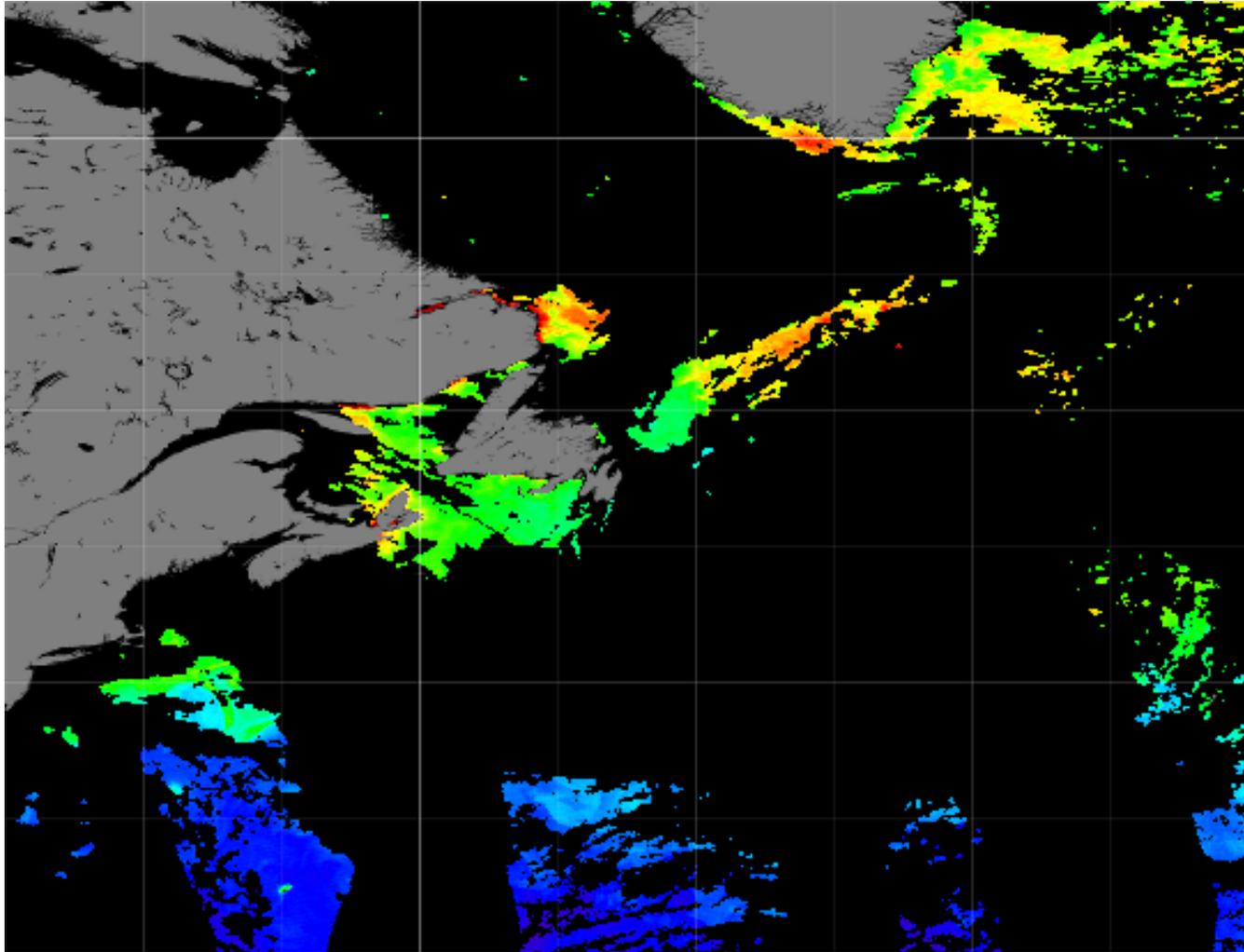


Chlorophyll a concentration ( mg / m<sup>3</sup> )

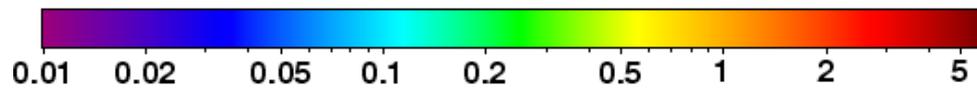


# MODIS Aqua Kd

May 29, 2016



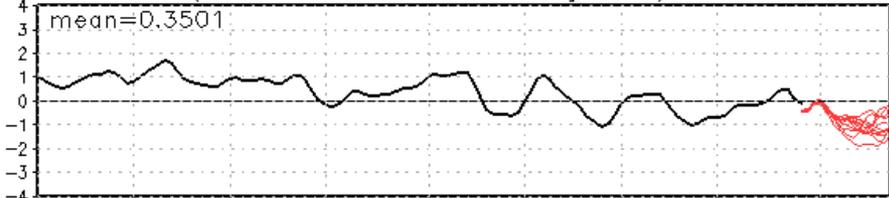
Diffuse attenuation coefficient at 490 nm (  $\text{m}^{-1}$  )



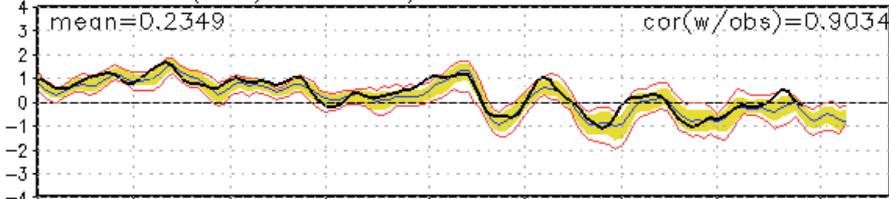
# North Atlantic Oscillation

## NAO: Observed & ENSM forecasts

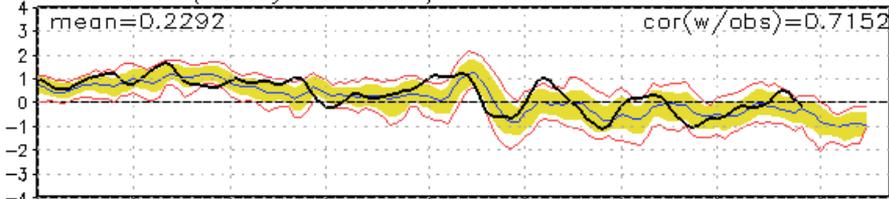
500mb Z (Obs: 31Jan2016 – 29May2016) NAO index



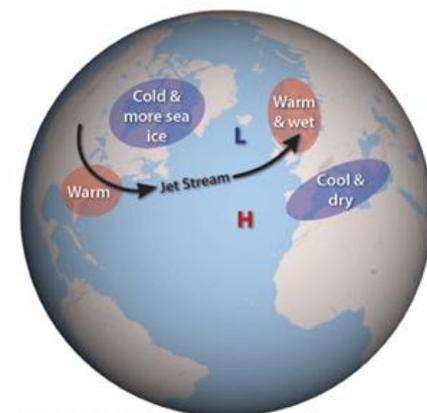
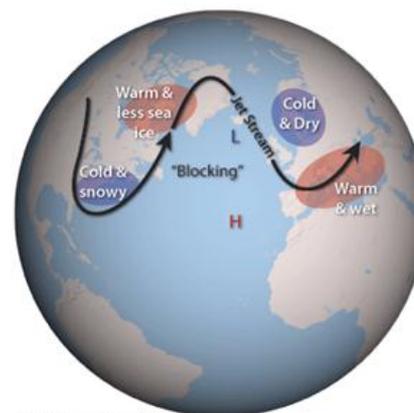
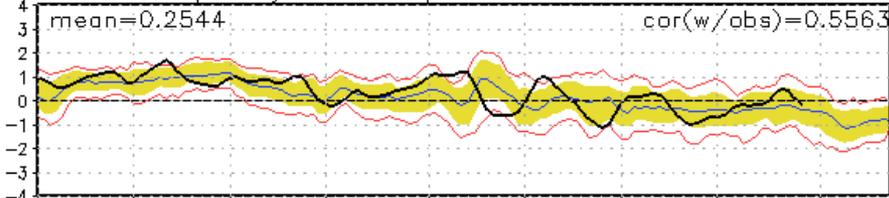
500mb Z (7day Forecast) NAO index



500mb Z (10day Forecast) NAO index



500mb Z (14day Forecast) NAO index





# Surface Analysis

