

# Planned Ship Route & Forecast

## Wednesday, 5/25 transit to S5

Waves: W 4-7 ft  
Winds: Light + variable  
Clouds: Broken low, scattered high  
Precip: None

## Friday, 5/27 transit to S6

Waves: E 5-7 ft  
Winds: Variable, 5-15 kts  
Clouds: Overcast bcmg broken  
Precip: Rain

## Saturday, 5/28 S6 Ops

Waves: E bcmg N 5-7 ft,  
increasing to 9 ft  
Winds: N 10-20 kts  
Clouds: Broken low, scattered  
mid, clear bcmg broken high  
Precip: Scattered showers

## Monday, 5/29 S7 Ops

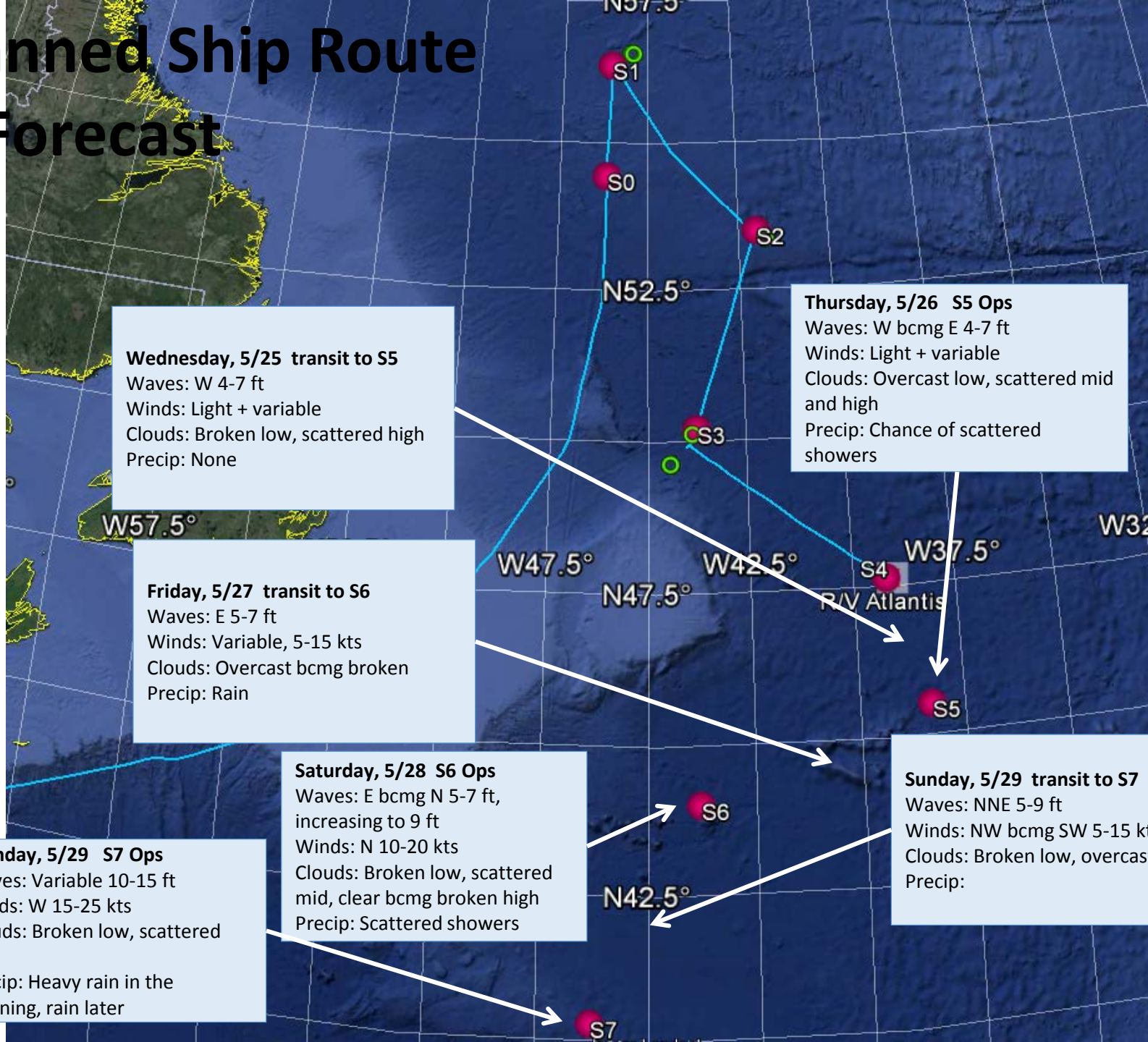
Waves: Variable 10-15 ft  
Winds: W 15-25 kts  
Clouds: Broken low, scattered  
mid  
Precip: Heavy rain in the  
morning, rain later

## Thursday, 5/26 S5 Ops

Waves: W bcmg E 4-7 ft  
Winds: Light + variable  
Clouds: Overcast low, scattered mid  
and high  
Precip: Chance of scattered  
showers

## Sunday, 5/29 transit to S7

Waves: NNE 5-9 ft  
Winds: NW bcmg SW 5-15 kts  
Clouds: Broken low, overcast high  
Precip:



# Forecast Summary

## **Day 1 (Wednesday) – May 25**

**Recommendation: Ship in transit to S5, Potential Fly Day**

St. John's: A steady rain in the morning. Showers continuing in the afternoon. High 63F. Winds SSW at 10 to 20 mph. Chance of rain 80%.

## **Day 2 (Thursday) – May 26**

**Recommendation: Ship at S5, Not a great flight day**

St. John's: Rain. High 52F. Winds NNW at 10 to 15 mph. Chance of rain 80%. Rainfall near a quarter of an inch.

## **Day 3 (Friday) – May 27**

**Recommendation: Ship in transit to S6, Fly**

St. John's: Decreasing cloudiness and windy. High 44F. Winds NNE at 20 to 30 mph.

## **Day 4 (Saturday) – May 28**

**Recommendation: Ship at S6, Fly**

St. John's: Mostly cloudy skies. High near 50F. Winds SE at 10 to 15 mph.

## **Day 5 (Sunday) – May 29**

**Recommendation: Ship in transit to S7, Fly**

St. John's: Periods of rain. High 44F. Winds NE at 15 to 25 mph. Chance of rain 70%. Rainfall near a half an inch.

## **Day 6 (Monday) – May 30**

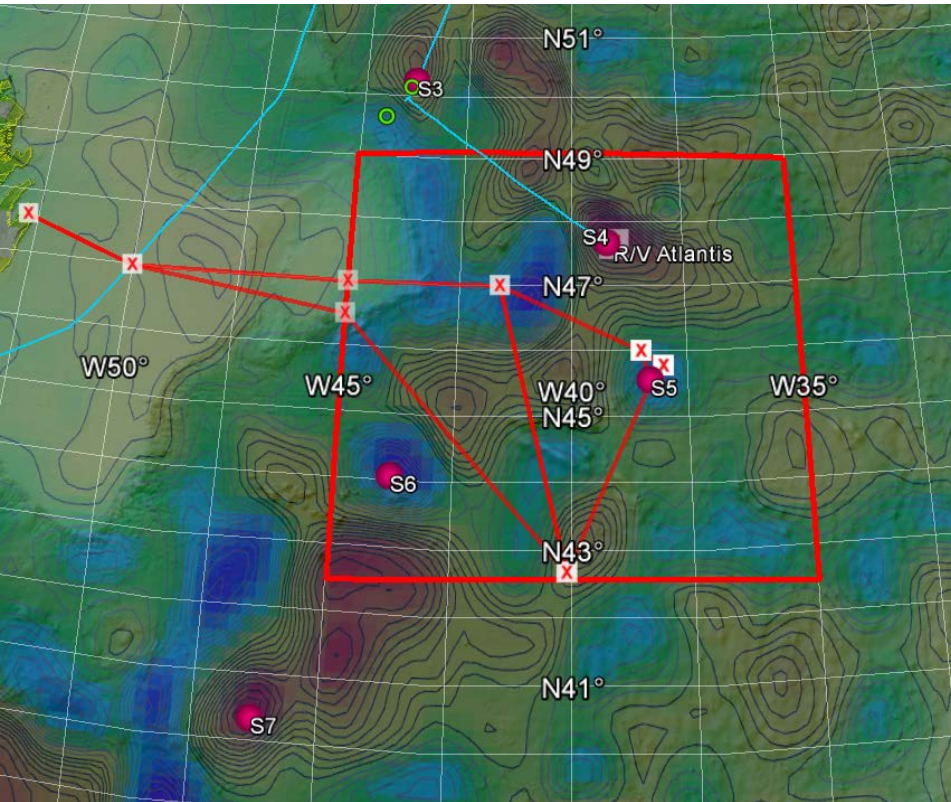
**Recommendation: Ship at S7, Fly**

St. John's: Mostly cloudy and windy. High 43F. Winds N at 25 to 35 mph.

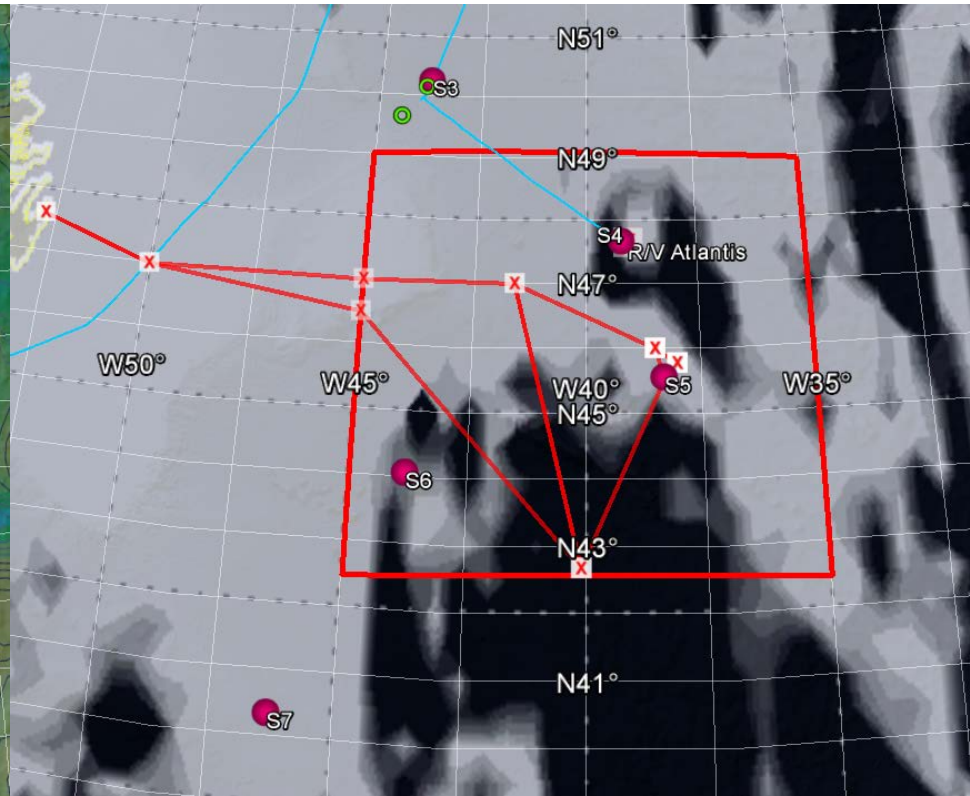
**CALIPSO tracks through domain on 25<sup>th</sup>, 27<sup>th</sup>, and 30<sup>th</sup>.**

# Wednesday Flight Plan

SLA Overlay



18z Cloud Overlay

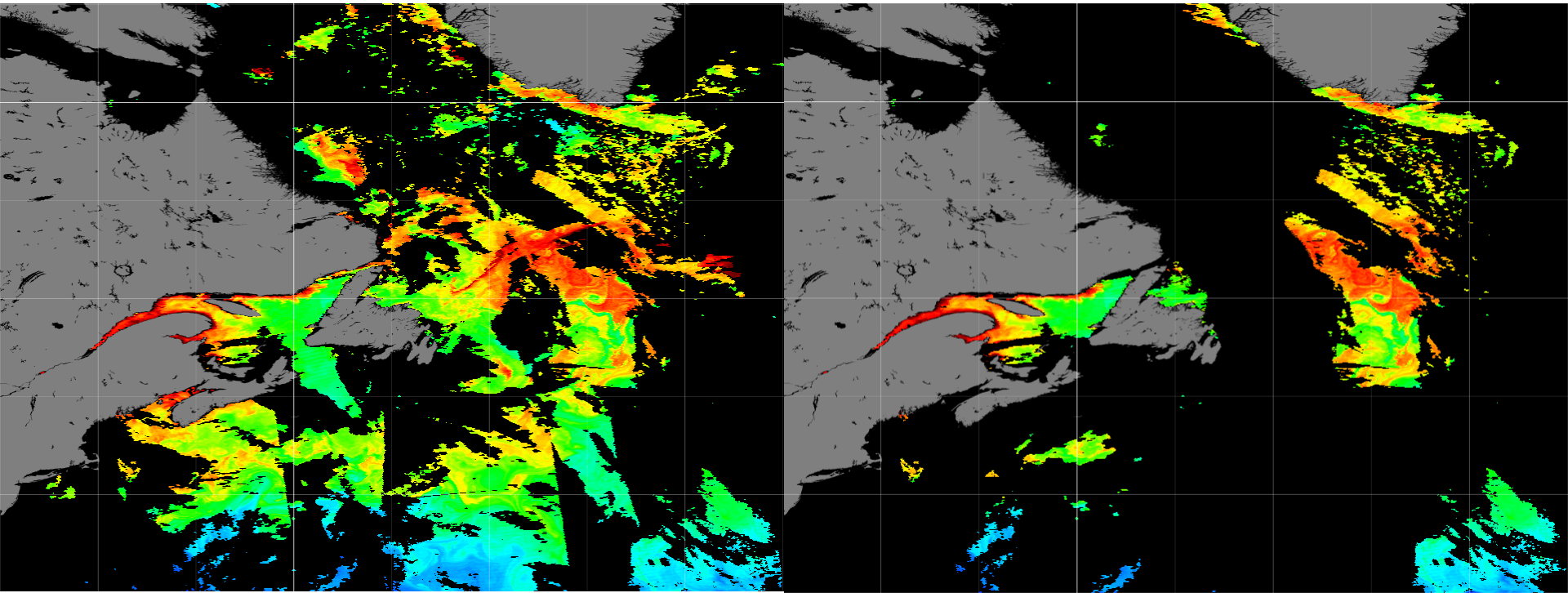




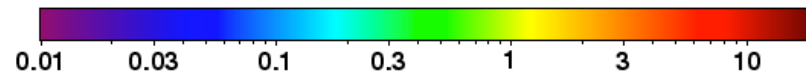
# MODIS Aqua Chlorophyll

May 21-23, 2016

May 23, 2016

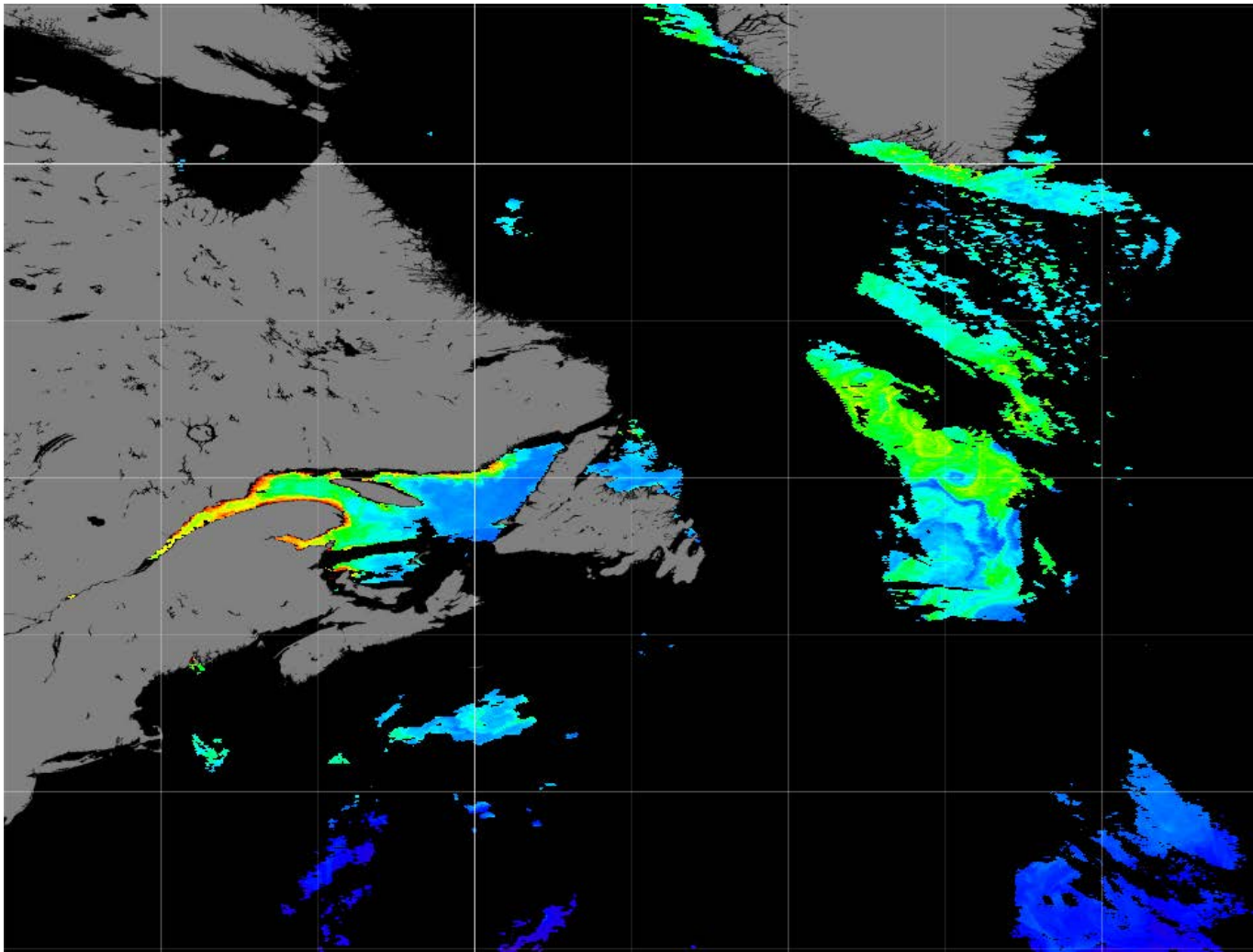


Chlorophyll a concentration ( mg / m<sup>3</sup> )

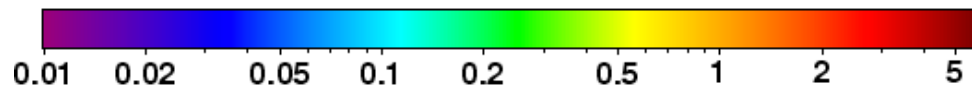


# MODIS Aqua Kd

## May 23, 2016

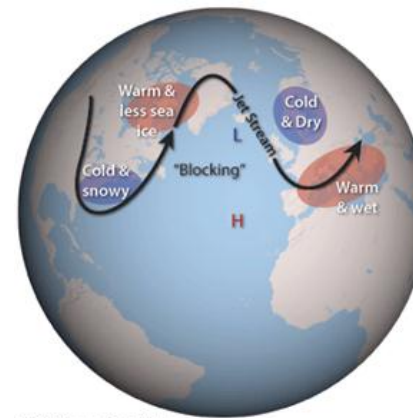
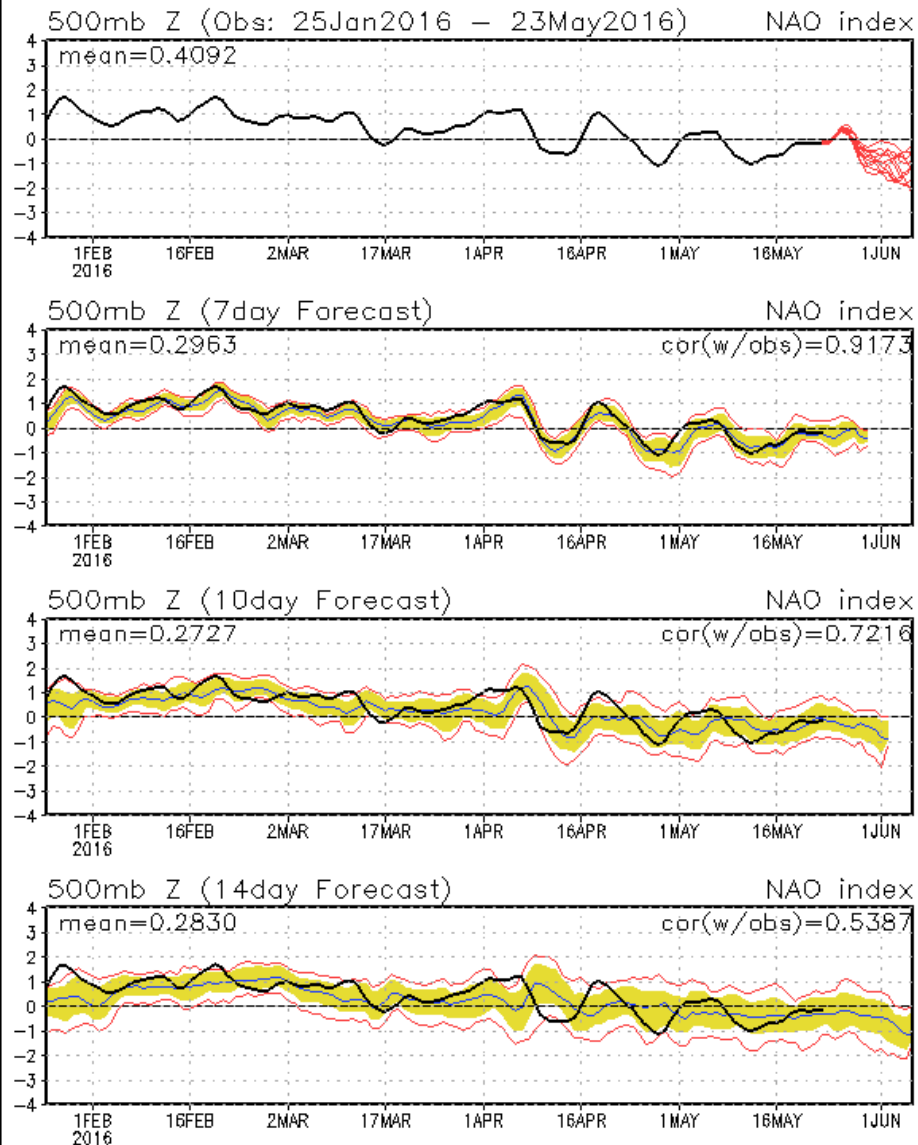


Diffuse attenuation coefficient at 490 nm (  $\text{m}^{-1}$  )

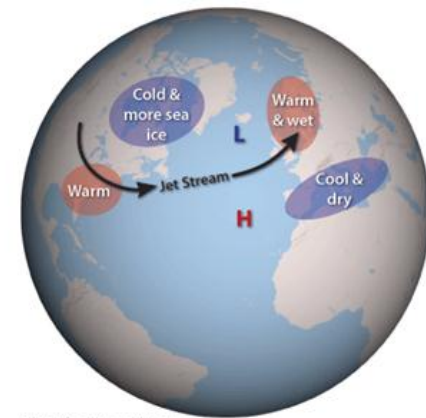


# North Atlantic Oscillation

## NAO: Observed & ENSM forecasts



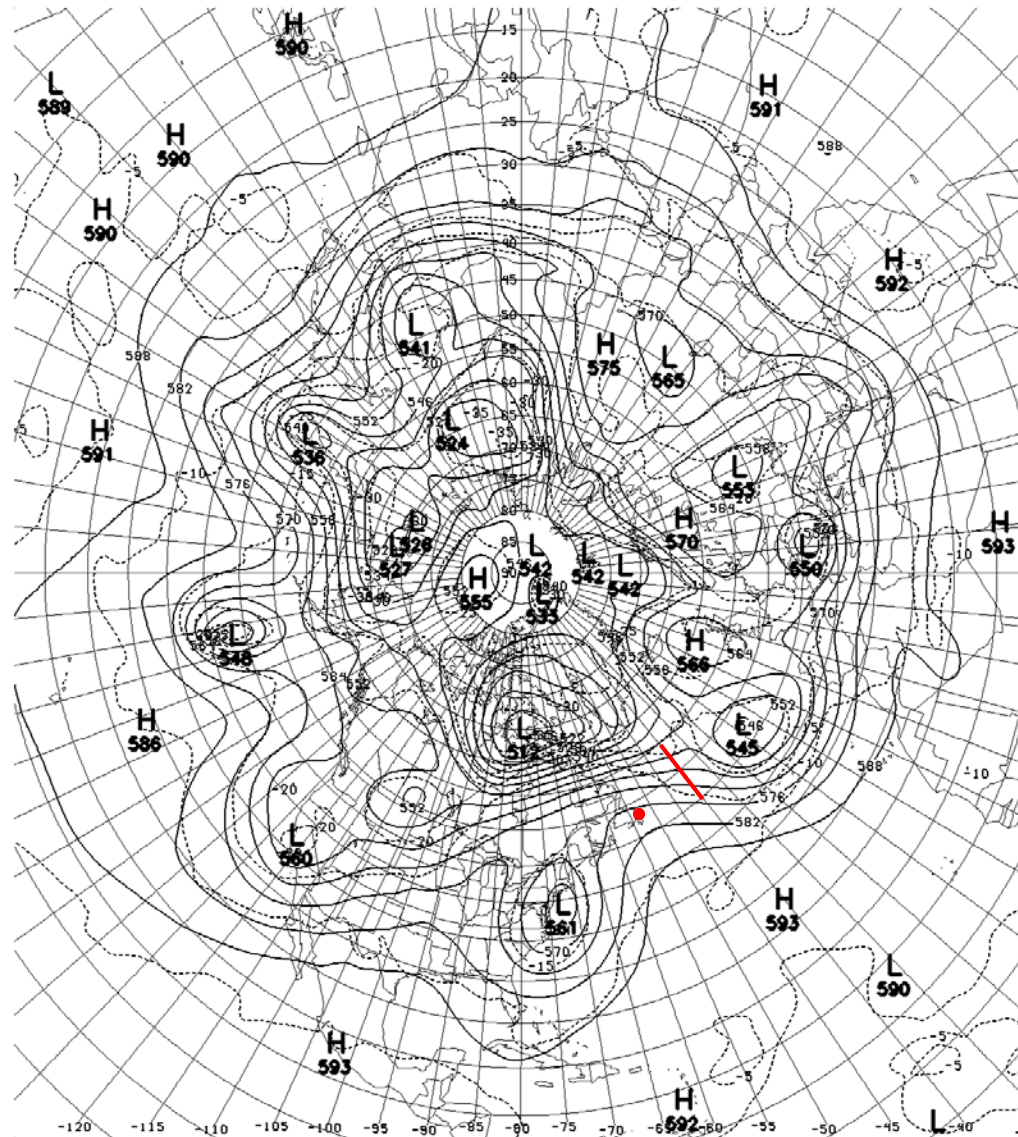
NAO Negative Mode



NAO Positive Mode

# North Atlantic Oscillation

500MB ANALYSIS HEIGHTS/TEMPERATURE



05/24/2016 06UTC 000HR FCST VALID TUE 05/24/2016 06UTC NCEP/NWS/NOAA



# Surface Analysis

