

# 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

R/V Atlantis

W45°

W55°  
N42.5°

W65°

W35°

N52.5°

S1

S0

S2

S3

S4

S5

# 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.

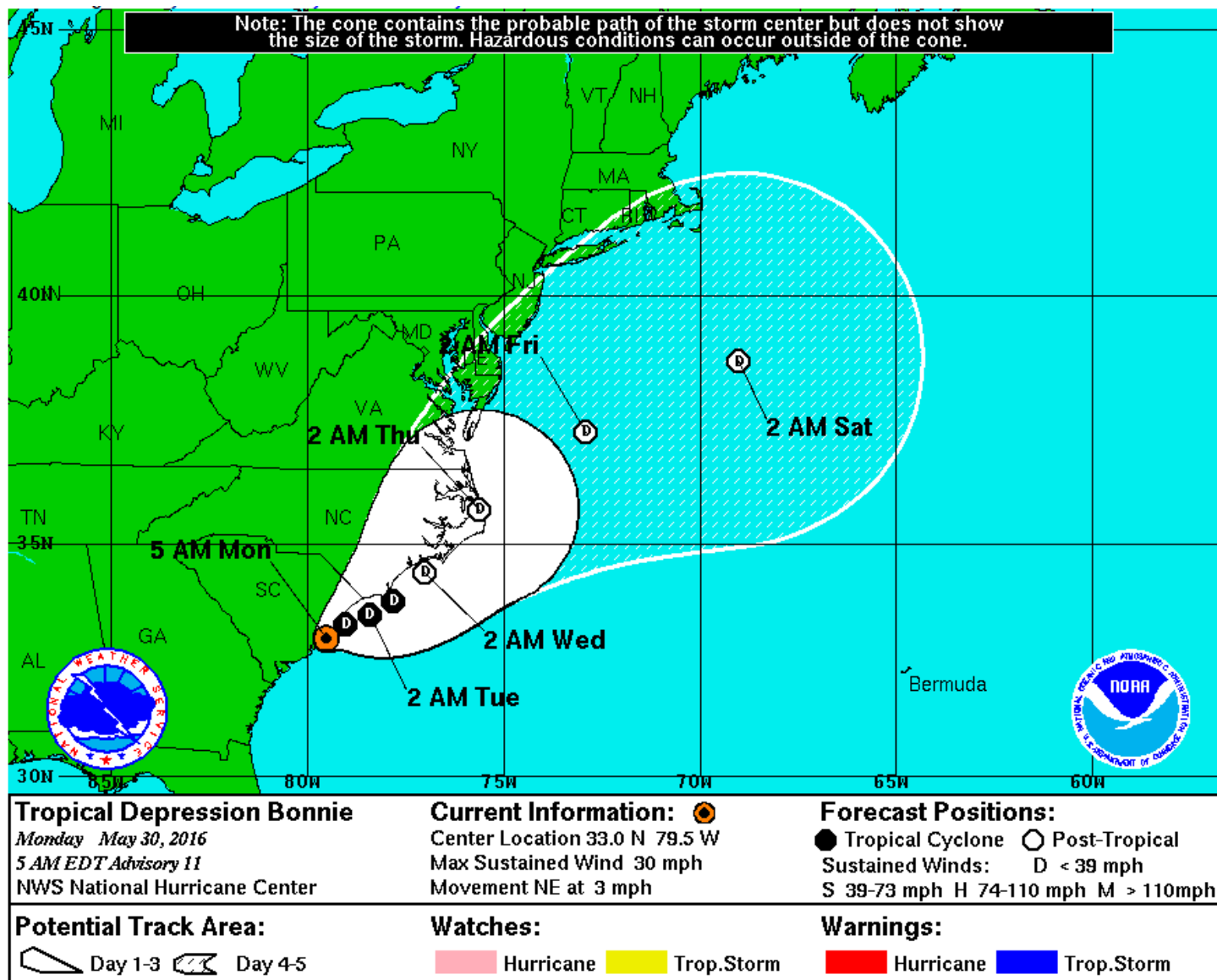
## **Day 6 (Sunday) – June 5**

**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>.**

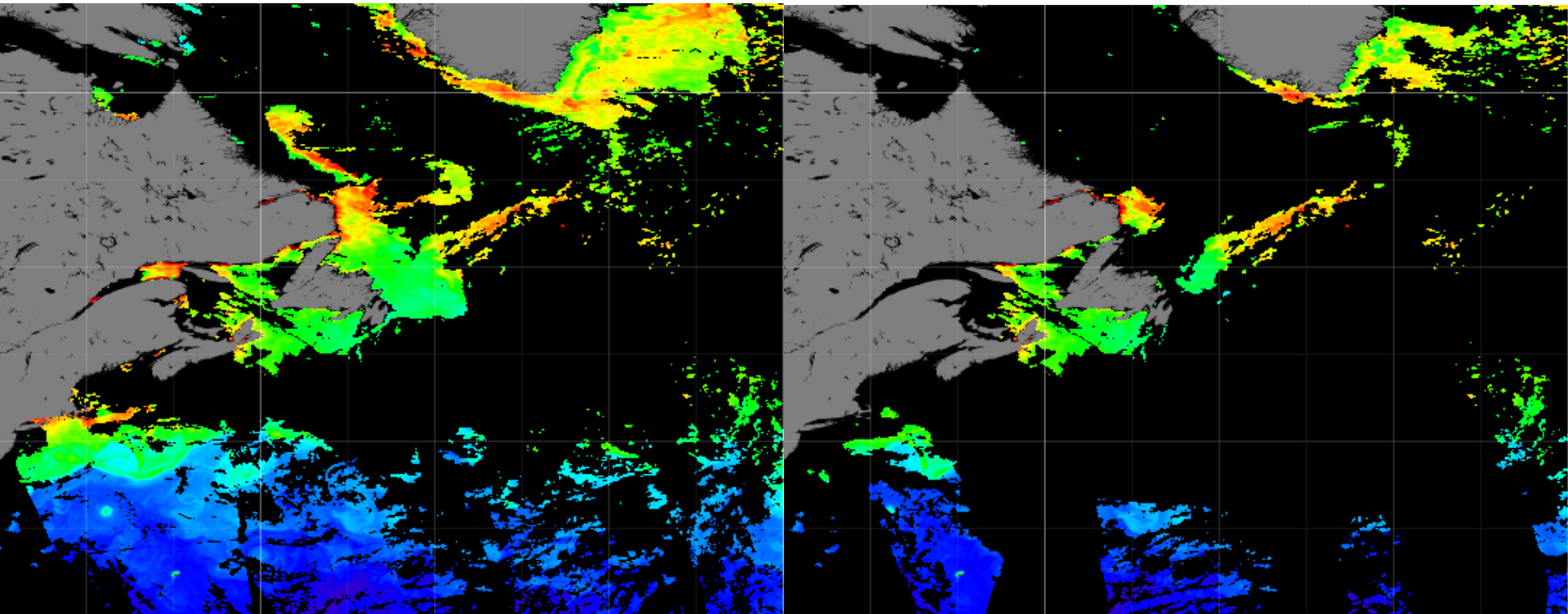
# TD Bonnie



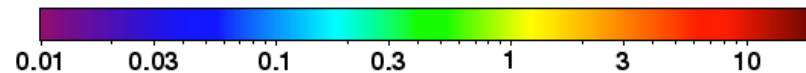
# MODIS Aqua Chlorophyll

May 27-29, 2016

May 29, 2016



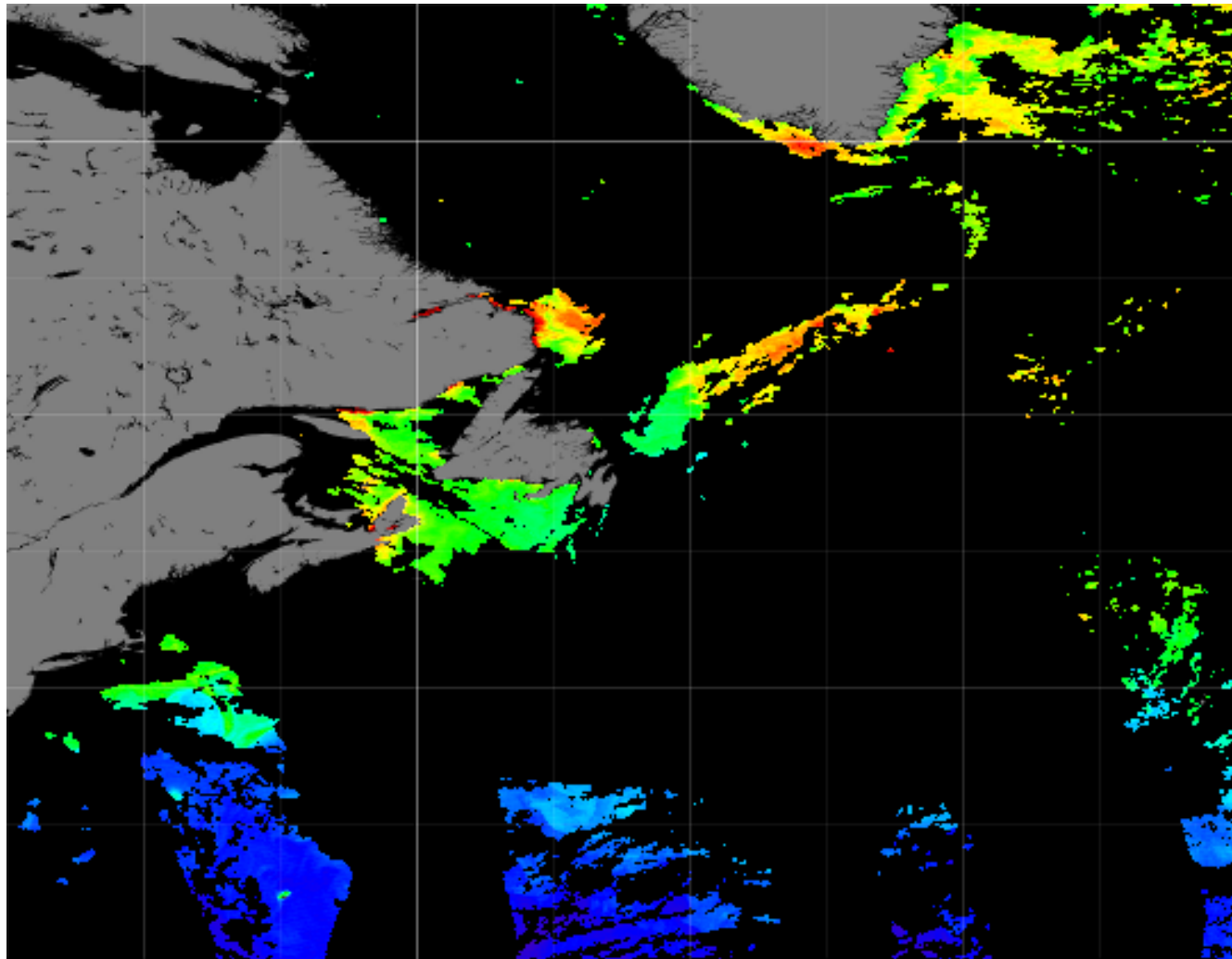
Chlorophyll a concentration ( mg / m<sup>3</sup> )



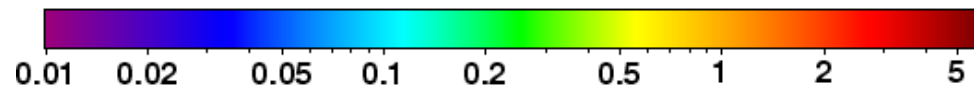


# MODIS Aqua Kd

## May 29, 2016



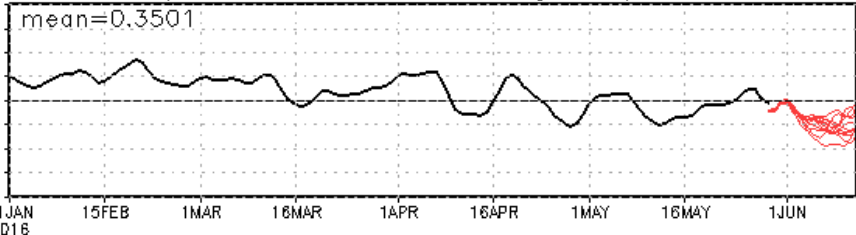
Diffuse attenuation coefficient at 490 nm ( $\text{m}^{-1}$ )



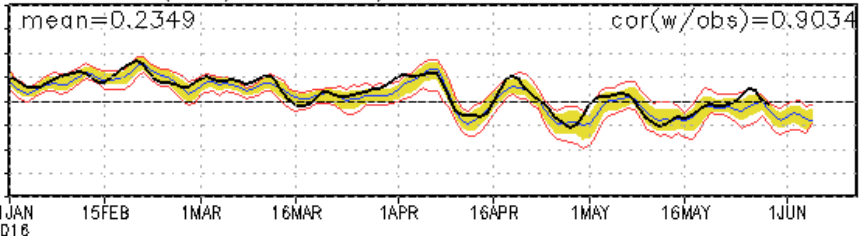
# North Atlantic Oscillation

## NAO: Observed & ENSM forecasts

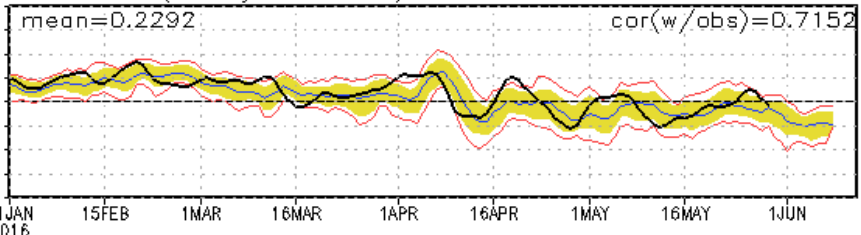
500mb Z (Obs: 31Jan2016 – 29May2016) NAO index



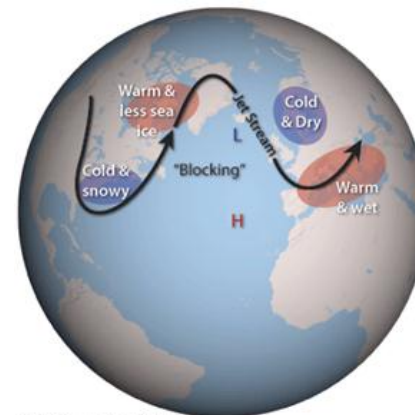
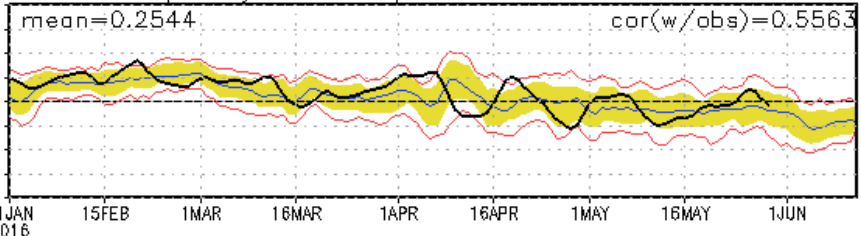
500mb Z (7day Forecast) NAO index



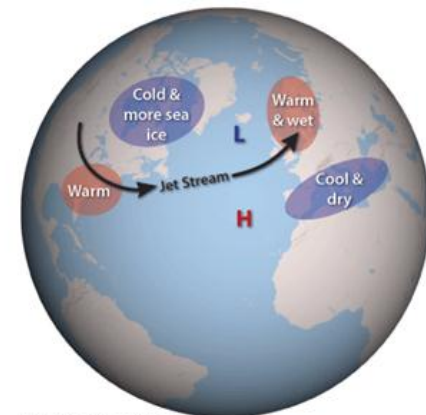
500mb Z (10day Forecast) NAO index



500mb Z (14day Forecast) NAO index



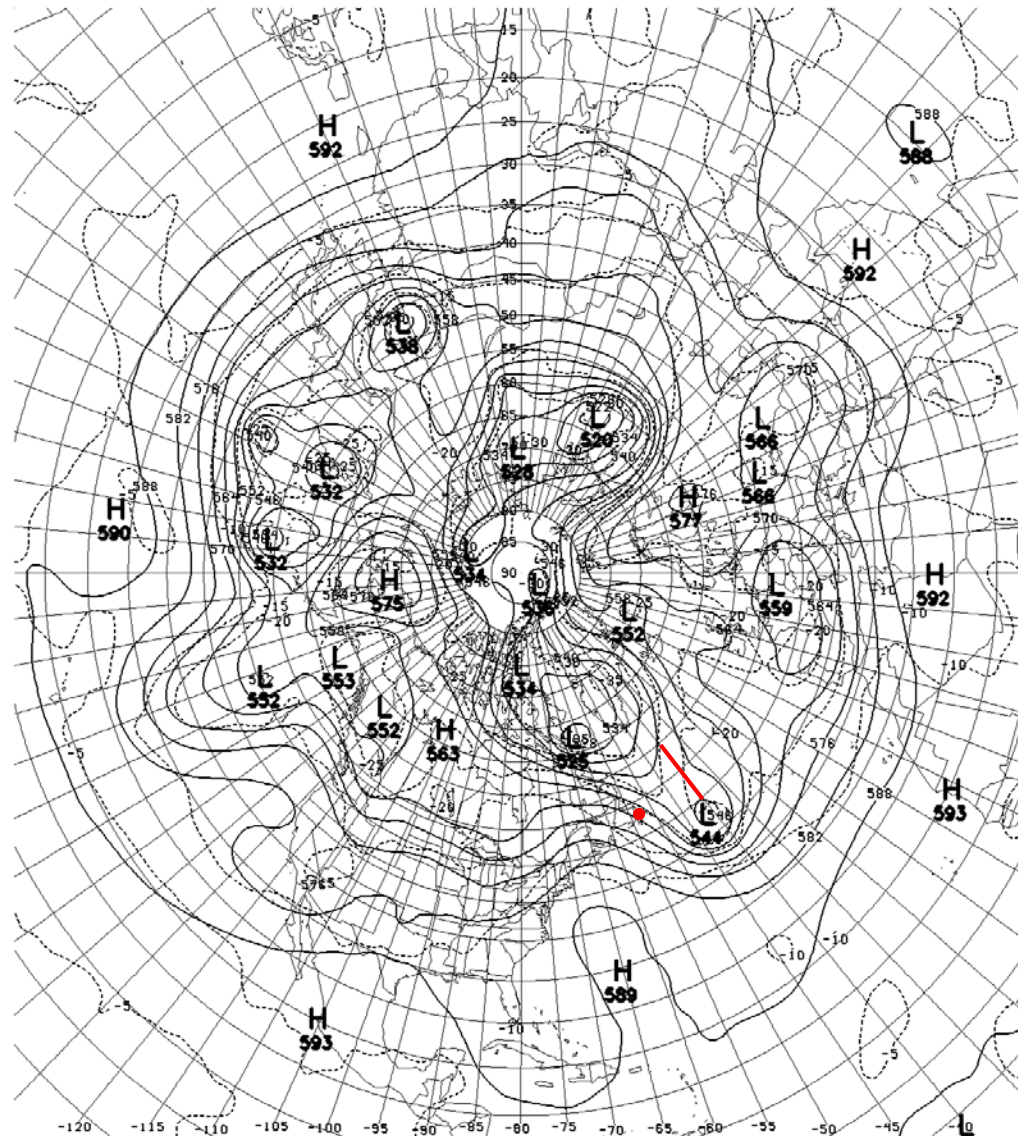
NAO Negative Mode



NAO Positive Mode

# North Atlantic Oscillation

500MB ANALYSIS HEIGHTS/TEMPERATURE



05/30/2016 06UTC 000HR FCST VALID MON 05/30/2016 06UTC NCEP/NWS/NOAA



# Surface Analysis

