

NAAMES Afternoon WX Discussion

Wednesday, May 25, 2016

Forecast Summary

Day 1 (Thursday) – May 26 – Ship at S4

Recommendation: Fly over S3 and cloud module over S4

St. John's: Mostly cloudy with periods of heavy rain, chance of 80%. Winds N 10-20 mph. Temps falling from 55 to 45F.

Day 2 (Friday) – May 27 - Ship leave S4 for S5

Recommendation: Fly, possible northern survey over S0, S1, S2, along with cloud modules

St. John's: Mostly cloudy with decreasing clouds throughout the day. Winds NNE 15-25 mph. High 44F.

Day 3 (Saturday) – May 28 – Ship at S5

Recommendation: Fly

St. John's: Partly cloudy with some light afternoon rain showers. Winds S 15-25 mph. High 49F.

Day 4 (Sunday) – May 29 – Ship at S5?

Recommendation: Not likely, big storm in North Atlantic

St. John's: Partly cloudy and windy. Winds NNW 25-35 mph. High 43F.

Day 5 (Monday) – May 30 – Ship leave S5 for S6

Recommendation: Questionable, storm remnants still in domain

St. John's: Mix of sun and clouds. Winds N 15-25 mph. High 48F.

Day 6 (Tuesday) – May 31 – Ship at S6

Recommendation: Fly

St. John's: Mostly cloudy with afternoon rain showers. Winds SSE 10-15 mph. High 51F.

CALIPSO tracks through domain on 27th and 30th.

Planned Ship Route & Forecast

Option 1

Depart S4 Friday morning, S5 for Saturday and Sunday,
Depart S5 Monday morning

Thursday, 5/26 S4 Ops
Waves: E 5-7 ft
Winds: SSW 10-15 kts
Clouds: Partly to mostly cloudy
Precip: afternoon rain showers

Friday, 5/27 Transit to S5
Waves: E 5-7 ft
Winds: N 5-10 kts
Clouds: overcast
Precip: heavy AM showers

Saturday, 5/28 S5 Ops
Waves: N 8-12 ft
Winds: NNW 12-18 kts
Clouds: mostly cloudy
Precip: AM scattered showers

Sunday, 5/29 still at S5
Waves: NE 5-7 ft
Winds: SW 15-20 kts, shifting to W 22-28 ft
Clouds: overcast
Precip: heavy rain showers

Monday, 5/30 transit to S6
Waves: NNE 7-12 ft
Winds: NW 35-40 kts
Clouds: mostly to partly cloudy
Precip: rain showers

Tuesday, 5/31 S6 Ops
Waves: NNE 7-9 ft
Winds: NW 10-15 kts
Clouds: partly to mostly cloudy
Precip: none

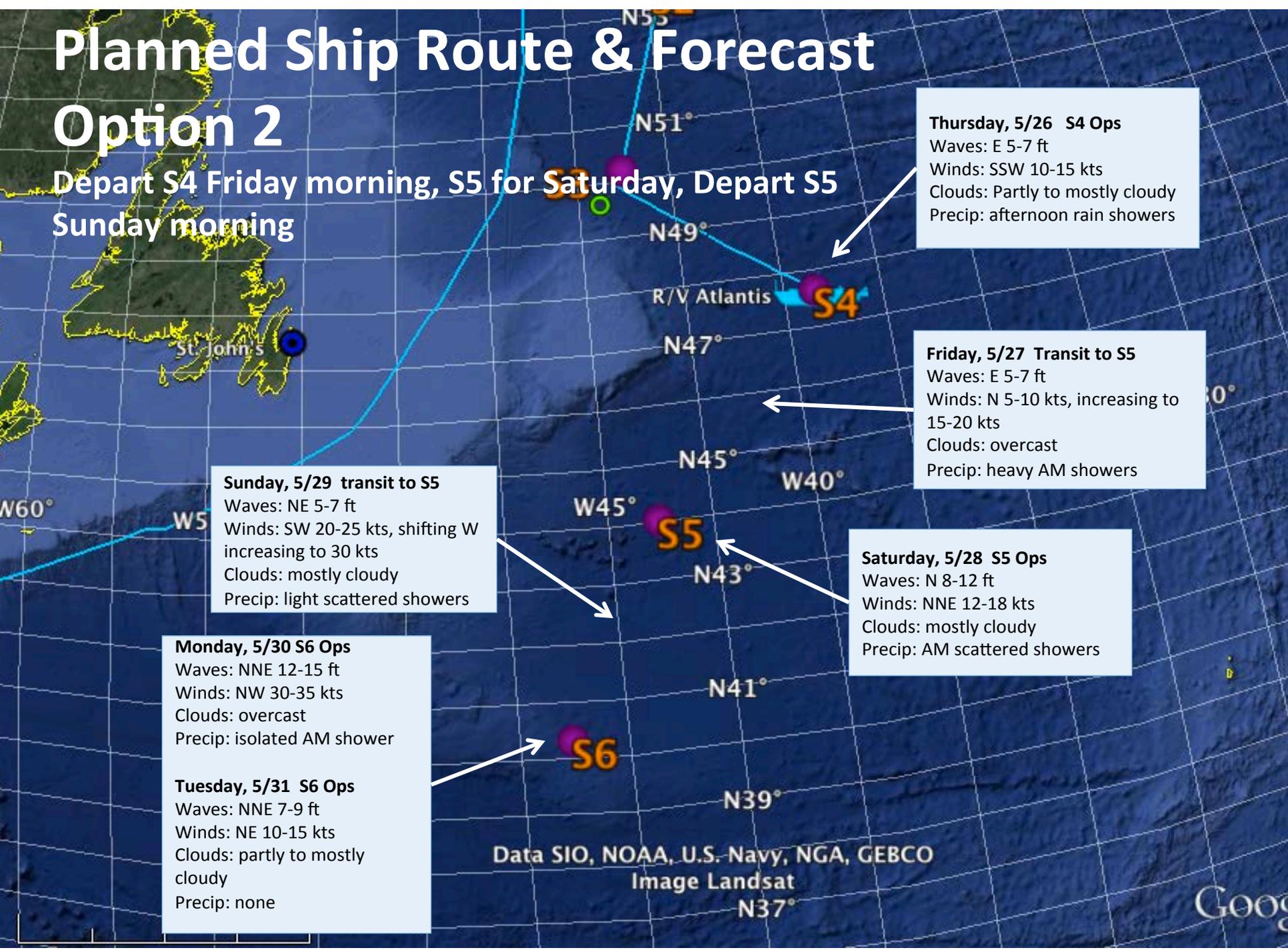
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat

Google

Planned Ship Route & Forecast

Option 2

Depart S4 Friday morning, S5 for Saturday, Depart S5 Sunday morning



Thursday, 5/26 S4 Ops
Waves: E 5-7 ft
Winds: SSW 10-15 kts
Clouds: Partly to mostly cloudy
Precip: afternoon rain showers

Friday, 5/27 Transit to S5
Waves: E 5-7 ft
Winds: N 5-10 kts, increasing to 15-20 kts
Clouds: overcast
Precip: heavy AM showers

Sunday, 5/29 transit to S5
Waves: NE 5-7 ft
Winds: SW 20-25 kts, shifting W increasing to 30 kts
Clouds: mostly cloudy
Precip: light scattered showers

Saturday, 5/28 S5 Ops
Waves: N 8-12 ft
Winds: NNE 12-18 kts
Clouds: mostly cloudy
Precip: AM scattered showers

Monday, 5/30 S6 Ops
Waves: NNE 12-15 ft
Winds: NW 30-35 kts
Clouds: overcast
Precip: isolated AM shower

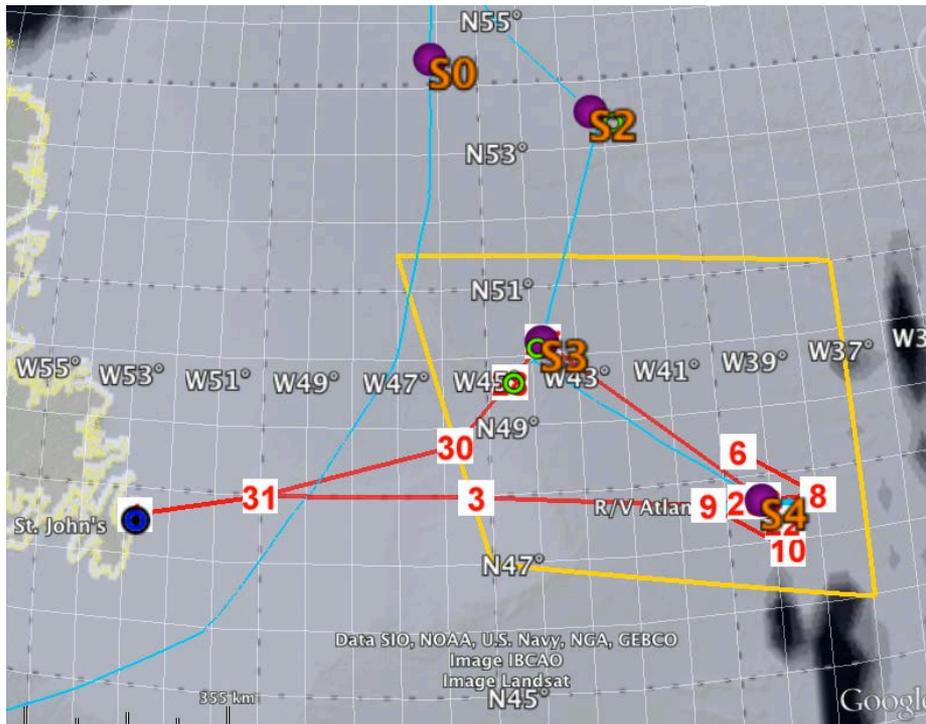
Tuesday, 5/31 S6 Ops
Waves: NNE 7-9 ft
Winds: NE 10-15 kts
Clouds: partly to mostly cloudy
Precip: none

Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat

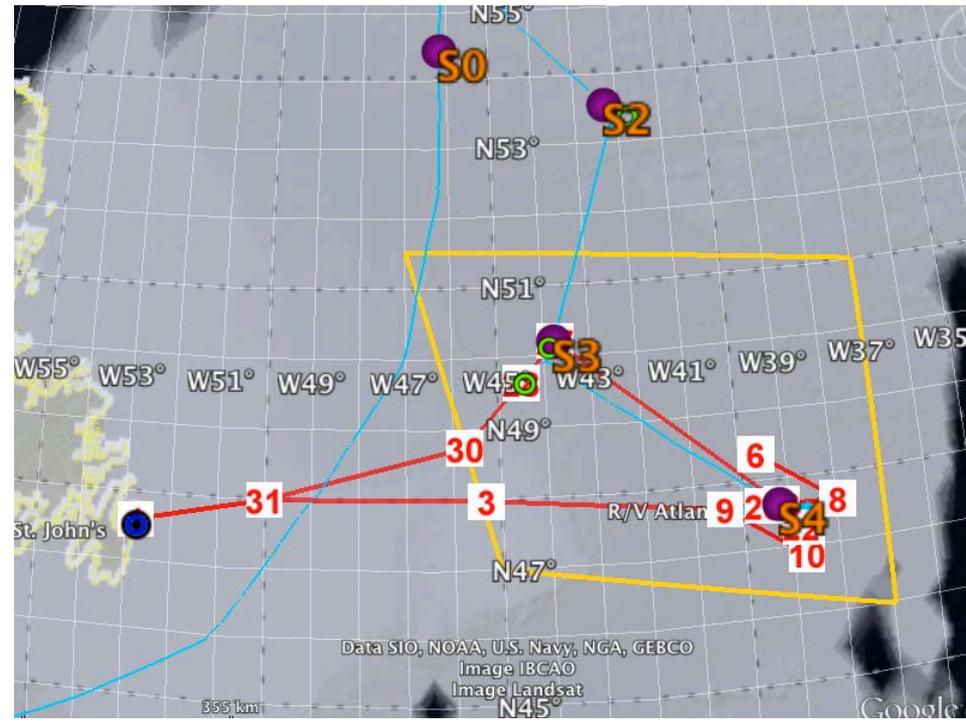
Google

Thursday Flight Plan

12z Clouds

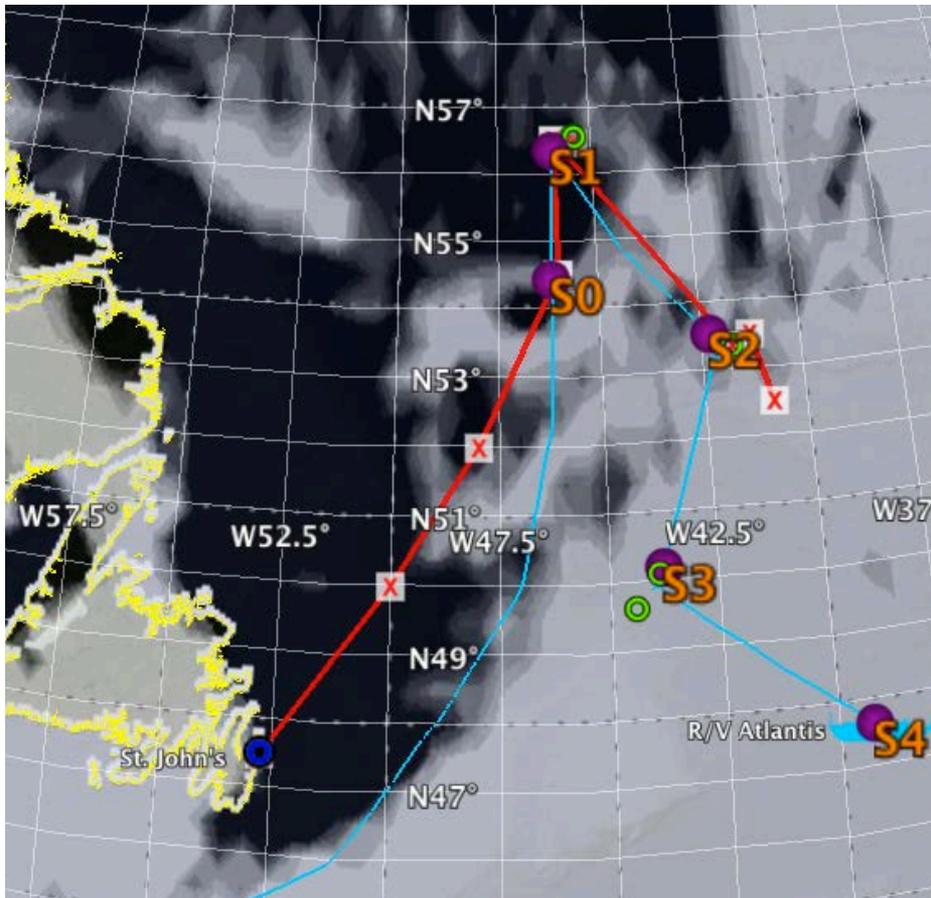


18z Clouds

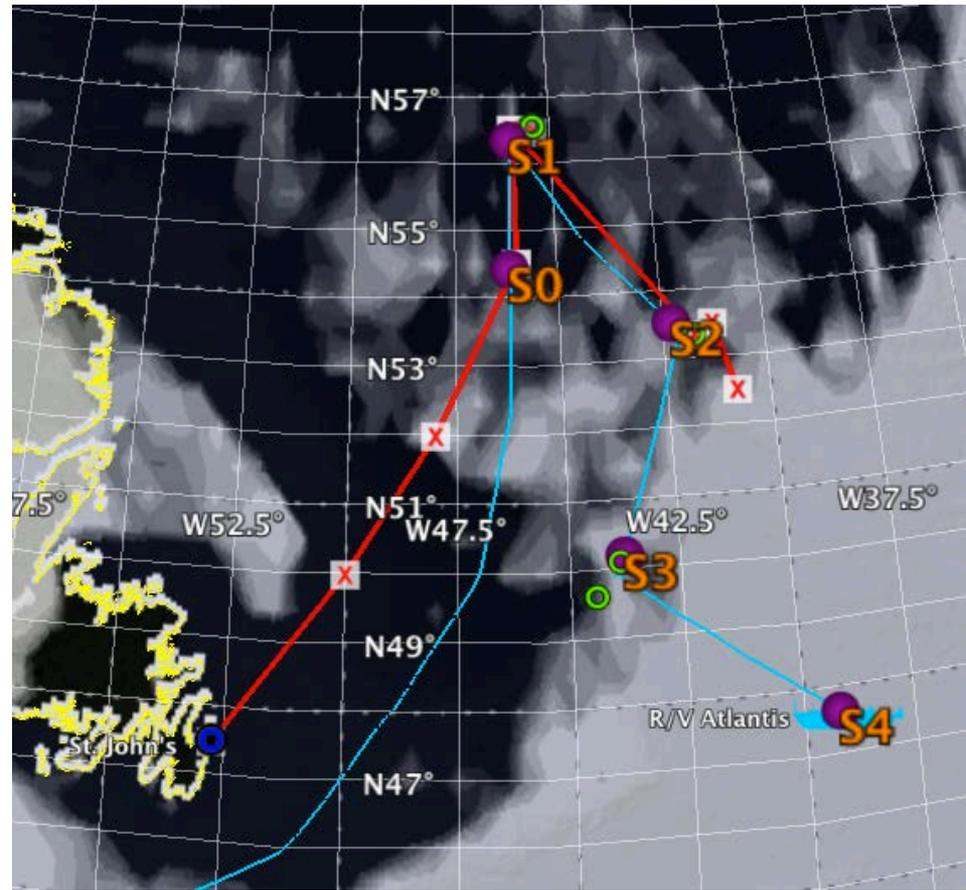


Potential Friday Flight Plan

12z Clouds



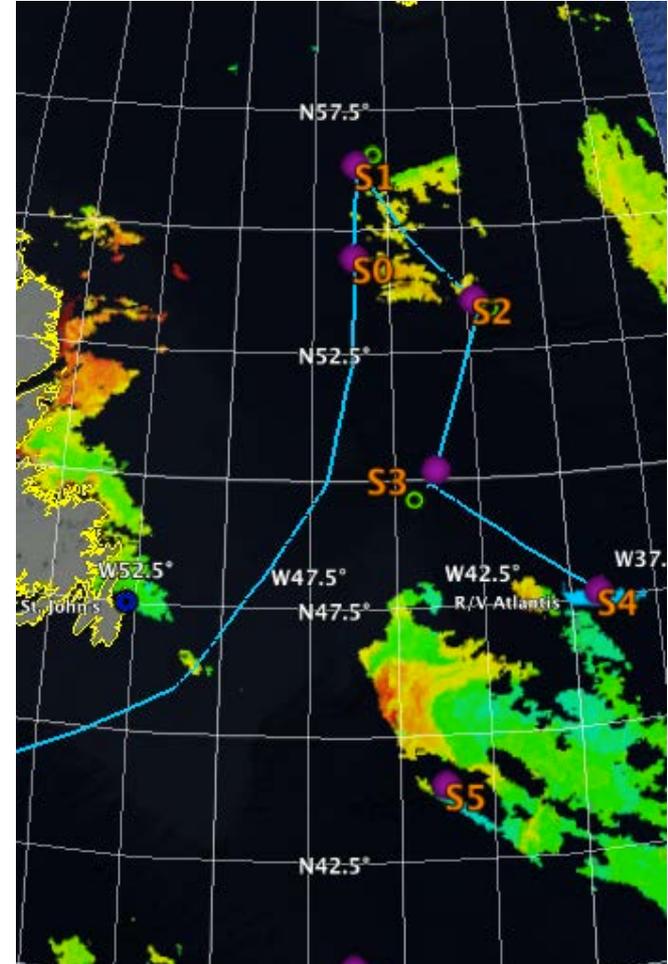
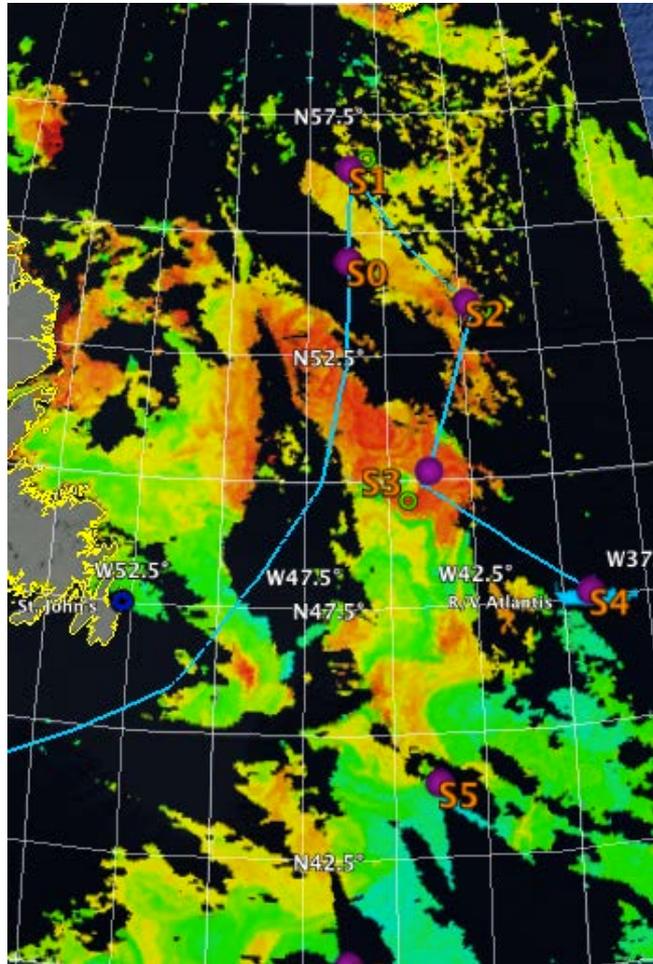
18z Clouds



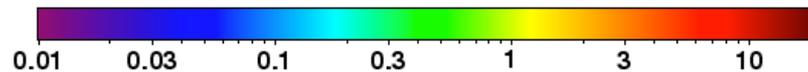
MODIS Aqua Chlorophyll

May 22-24, 2016

May 24, 2016

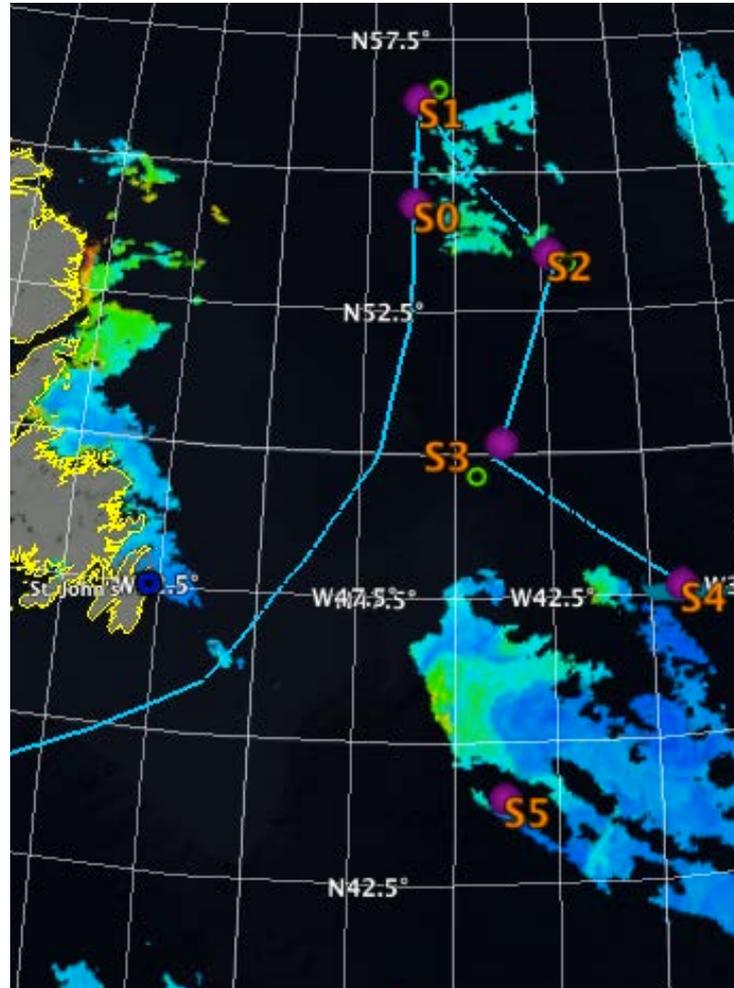


Chlorophyll a concentration (mg / m³)

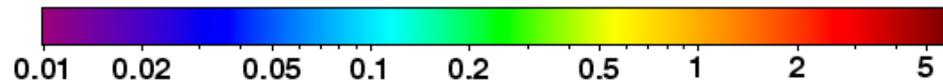


MODIS Aqua Kd

May 24, 2016

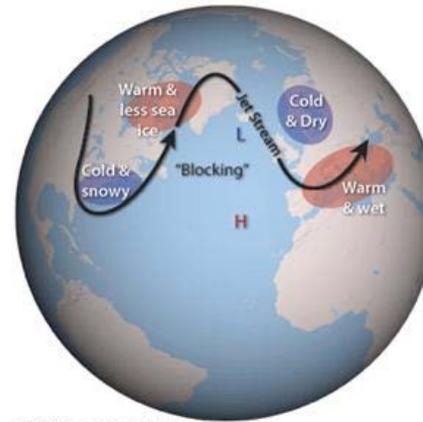
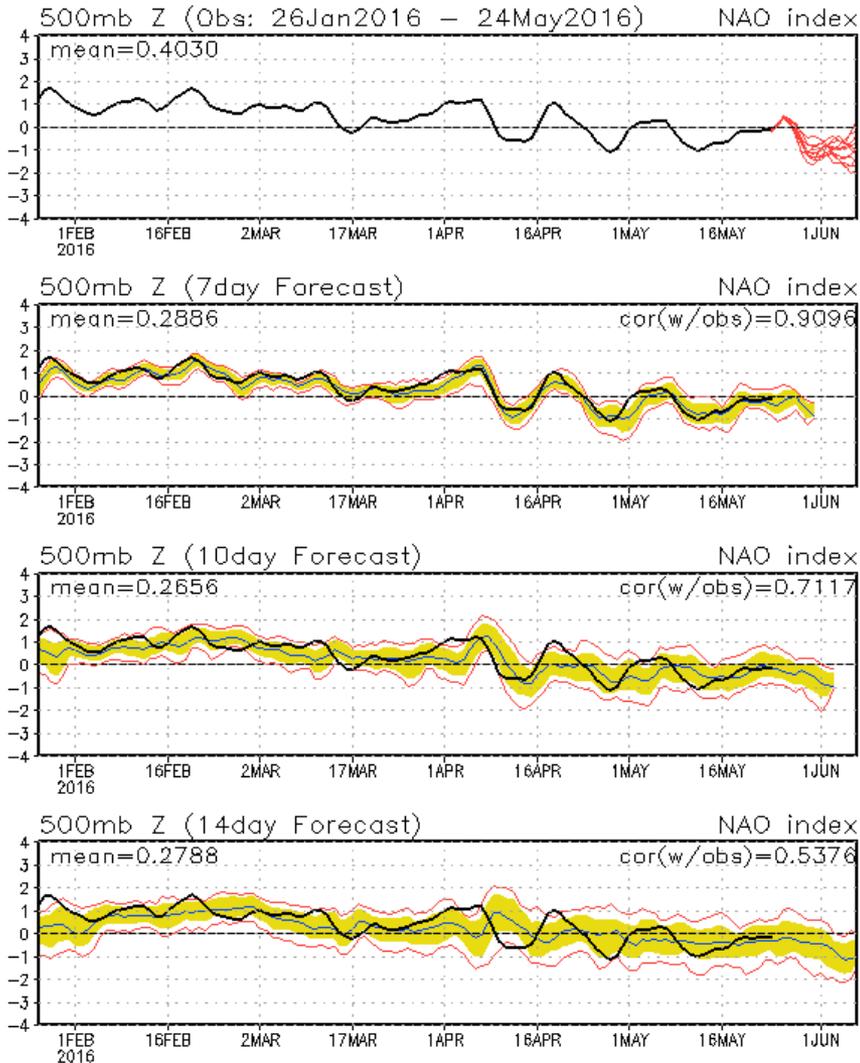


Diffuse attenuation coefficient at 490 nm (m^{-1})

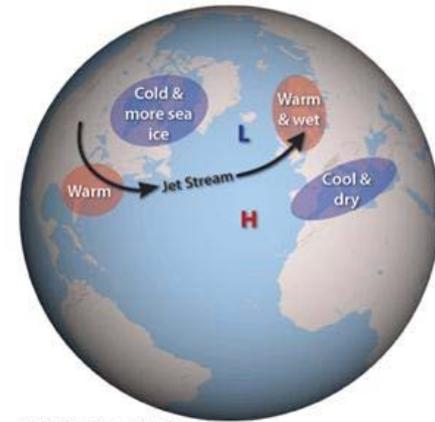


North Atlantic Oscillation

NAO: Observed & ENSM forecasts



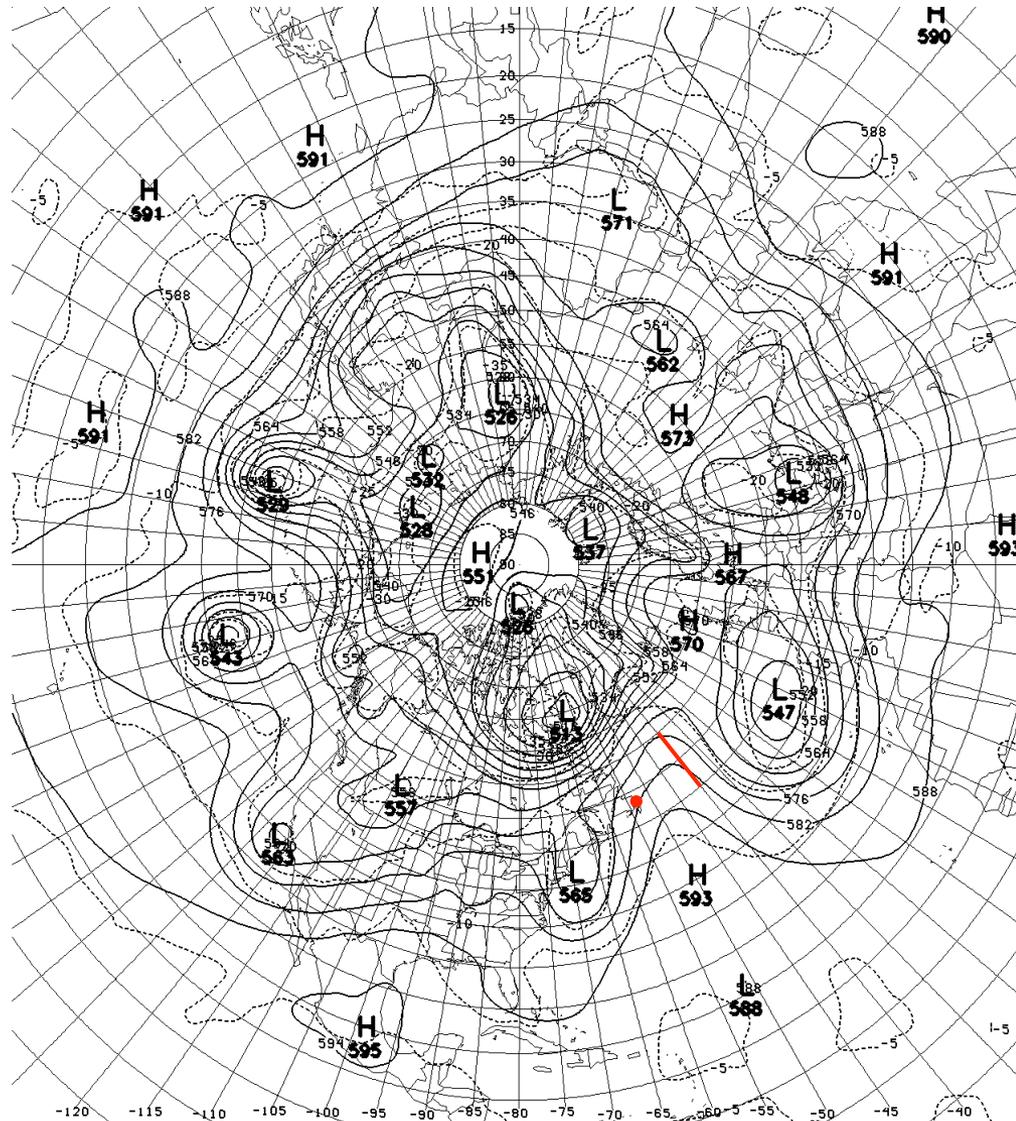
NAO Negative Mode



NAO Positive Mode

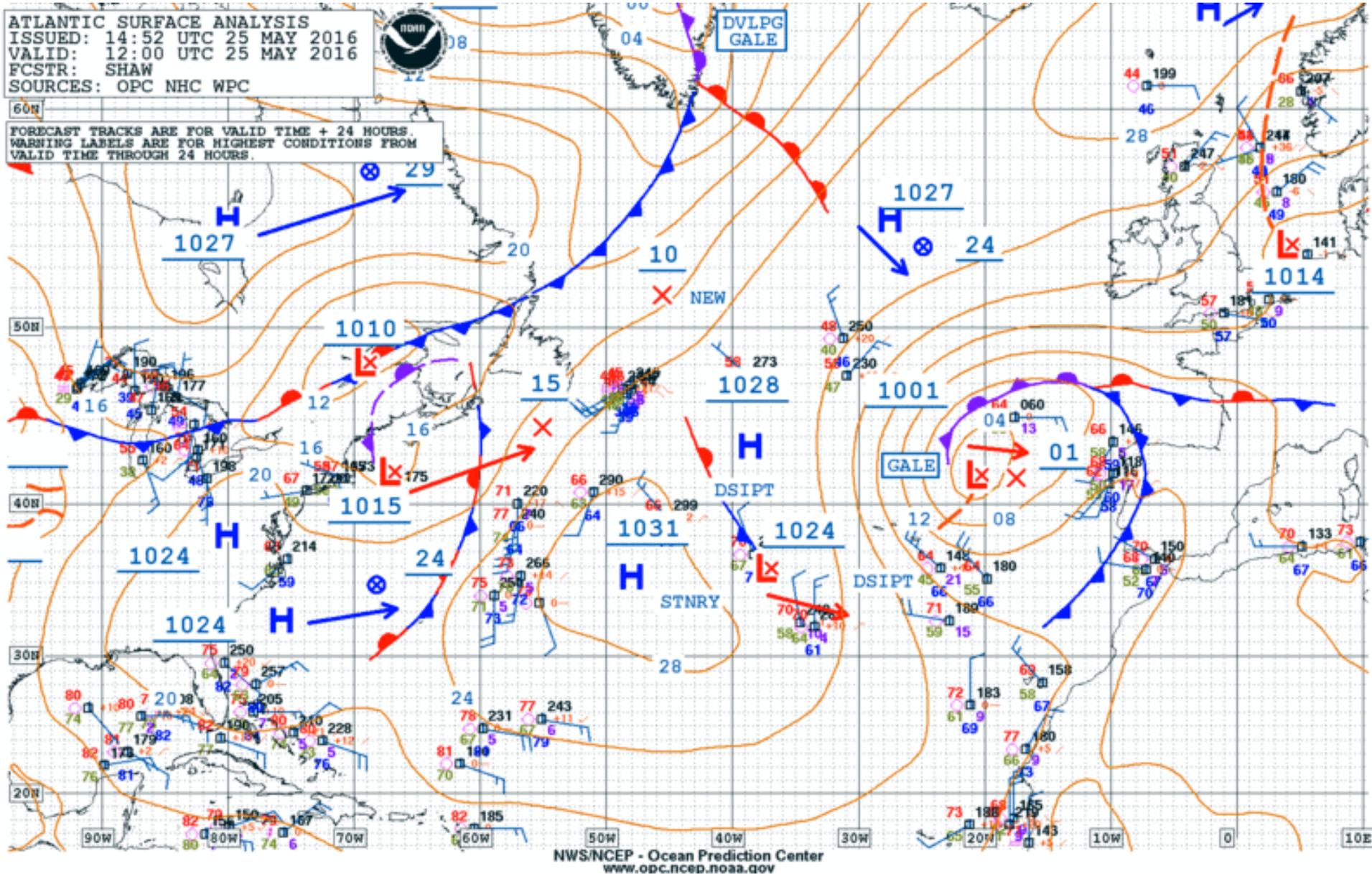
North Atlantic Oscillation

500MB ANALYSIS HEIGHTS/TEMPERATURE



05/25/2016 06UTC 000HR FCST VALID WED 05/25/2016 06UTC NCEP/NWS/NOAA

Surface Analysis and Synoptic Forecast



Satellite (5/25 14:45Z)

Visible

IR

