

NAAMES

WX Briefing

Thursday, March 29, 2018

Amy Jo Scarino

Forecast Highlights

Cold front will pass over ship late Thursday night/early Friday morning bringing rain that could be heavy at times.

- **Model agreement:** good agreement through Saturday; after that models somewhat agree on features, but not on strength and exact location
- **Next system:** Moves up the East Coast into Labrador by Saturday afternoon, bringing rain to St. John's on Saturday morning and arriving to the ship on Sunday
- **Ship:** For the rest of Thursday, winds will pick up ahead of the front, gusty at times and the high winds will continue on Friday at S3. Seas will also pick up with these higher winds, looks a break will come as sea state will slightly diminish on Monday afternoon into Tuesday.
- **St. John's:** Rainy, fog and cool today through Friday morning. Friday improves, but rain on Saturday morning and clouds/wind through the weekend

Forecast Summary

Day	St. John's	Ship	Ship Weather	Recommendation
Day 1 Friday 3/30	Partly cloudy Morning low: 31; High: 40 Winds: WNW 20 mph to NW 10-15 mph	At S3	Waves: W 16-20 ft Winds: WNW 32-40 kts Clouds: Mostly Cloudy (low, AM mid) Precip: Isolated rain showers	Down
Day 2 Saturday 3/31	AM rain showers & cloudy Morning low: 31; High: 48 Winds: SW 14 mph AM Fog/Low ceiling potential	Transit to S4	Waves: WNW 12-15 ft Winds: NW 22-28 kts Clouds: Overcast (low, PM mid & high) Precip: AM isolated rain showers	Fly if able (CALIPSO track, cm at ship)
Day 3 Sunday 4/1	Partly cloudy & windy Morning low: 26; High: 38 Winds: W 25-28 mph	At S4	Waves: W 9-12 ft, increasing to 18-21 ft Winds: WNW 30-38 kts Clouds: Mostly Cloudy (AM low & mid, PM high) Precip: passing midday rain showers	Fly out to S3/ST/S4, z/cm @ ship, RS near S4
Day 4 Monday 4/2	AM rain showers & partly cloudy Morning low: 31; High: 38 Winds: WSW 20-28 mph	Transit to S5	Waves: W 18-21 ft, diminishing to 12-15 ft Winds: WNW 30-35 kts, diminishing to 20-25kts Clouds: Partly to mostly cloudy (AM low, PM mid & high) Precip: no daytime, but overnight M to T rain showers	Fly CALIPSO track, RS at S3/ST on way to do cm @ ship
Day 5 Tuesday 4/3	Partly cloudy & windy Morning low: 24; High: 31 Winds: W 20-25 mph	Transit to S5	Waves: variable 9-12 ft Winds: variable to W 18-22 kts Clouds: Mostly to partly cloudy (broken low, PM mid, AM high) Precip: AM rain showers	Fly RS on ship track from S4 up to S5/S6, z/cm @ ship
Day 6 Wednesday 4/4	Increasing clouds Morning low: 23; High: 36 Winds: W 12-16 mph	At S5	Waves: ENE 10-15 ft Winds: NW 15-20 kts Clouds: Partly cloudy (patchy low & mid) Precip: light rain showers	Similar to Tuesday, but focused up at S5/S6

Planned Ship Route & Forecast

Tuesday, 4/3

Waves: variable 9-12 ft
Winds: variable to W 18-22 kts
Clouds: Mostly to partly cloudy (broken low, PM mid, AM high)
Precip: AM rain showers

Saturday, 3/31

Waves: WNW 12-15 ft
Winds: NW 22-28 kts
Clouds: Overcast (low, PM mid & high)
Precip: AM isolated rain showers

Friday, 3/30 – S3

Waves: W 16-20 ft
Winds: WNW 32-40 kts
Clouds: Mostly Cloudy (low, AM mid)
Precip: Isolated rain showers

Wednesday, 4/4 – S5

Waves: ENE 10-15 ft
Winds: NW 15-20 kts
Clouds: Partly cloudy (patchy low & mid)
Precip: light rain showers

Monday, 4/2

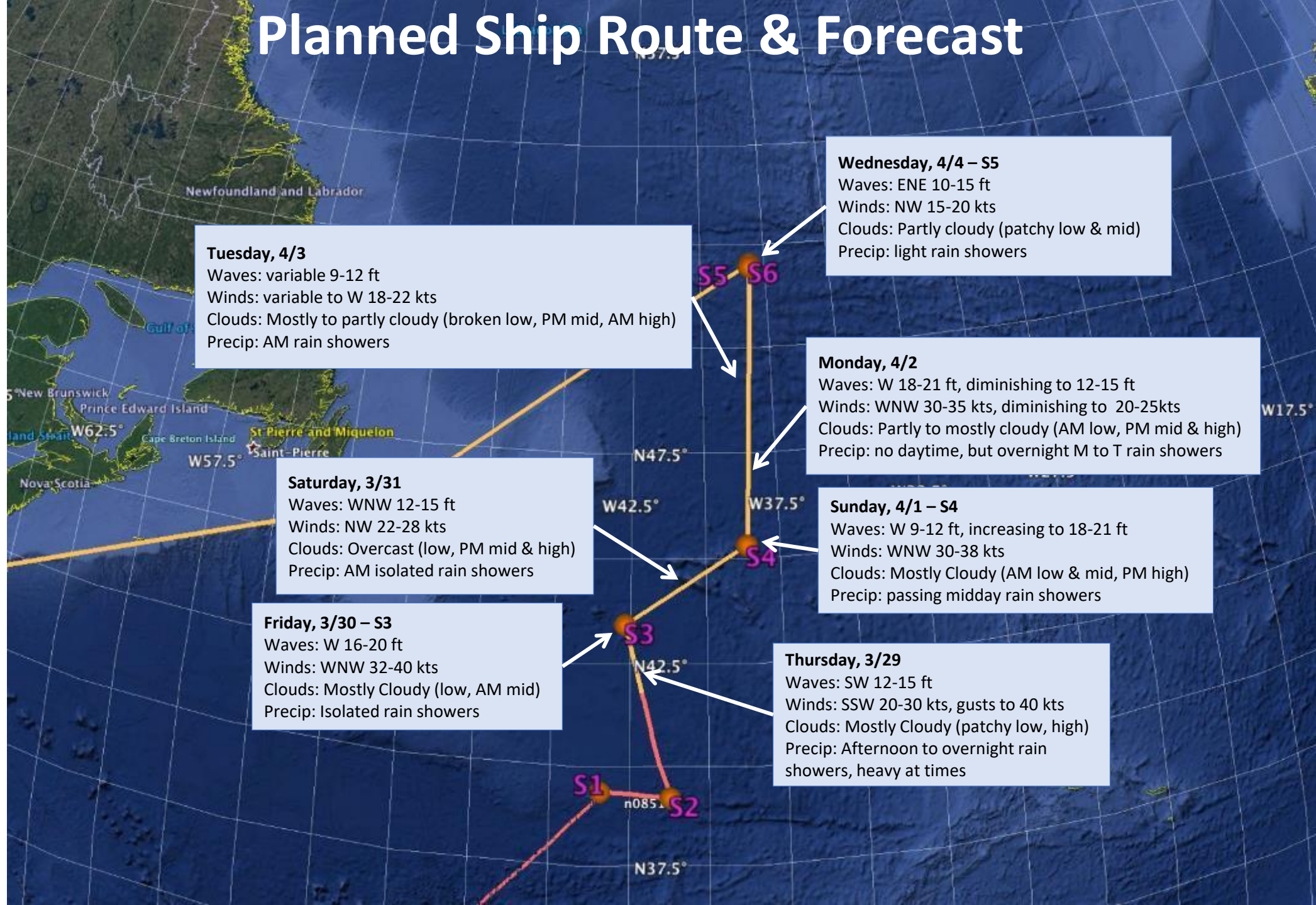
Waves: W 18-21 ft, diminishing to 12-15 ft
Winds: WNW 30-35 kts, diminishing to 20-25 kts
Clouds: Partly to mostly cloudy (AM low, PM mid & high)
Precip: no daytime, but overnight M to T rain showers

Sunday, 4/1 – S4

Waves: W 9-12 ft, increasing to 18-21 ft
Winds: WNW 30-38 kts
Clouds: Mostly Cloudy (AM low & mid, PM high)
Precip: passing midday rain showers

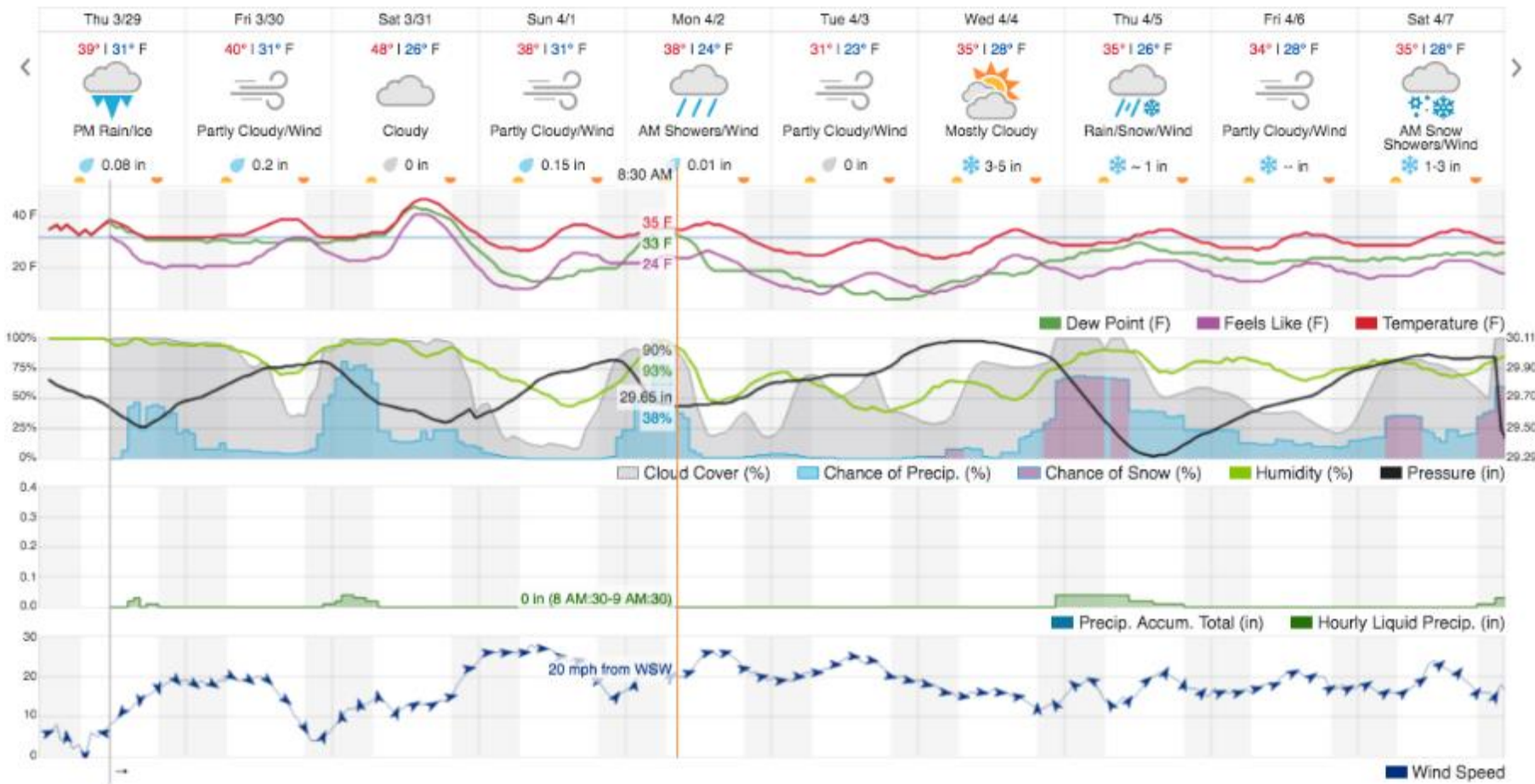
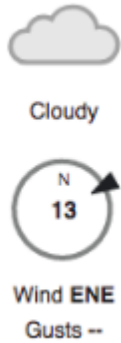
Thursday, 3/29

Waves: SW 12-15 ft
Winds: SSW 20-30 kts, gusts to 40 kts
Clouds: Mostly Cloudy (patchy low, high)
Precip: Afternoon to overnight rain showers, heavy at times



St. John's - Current & Forecast

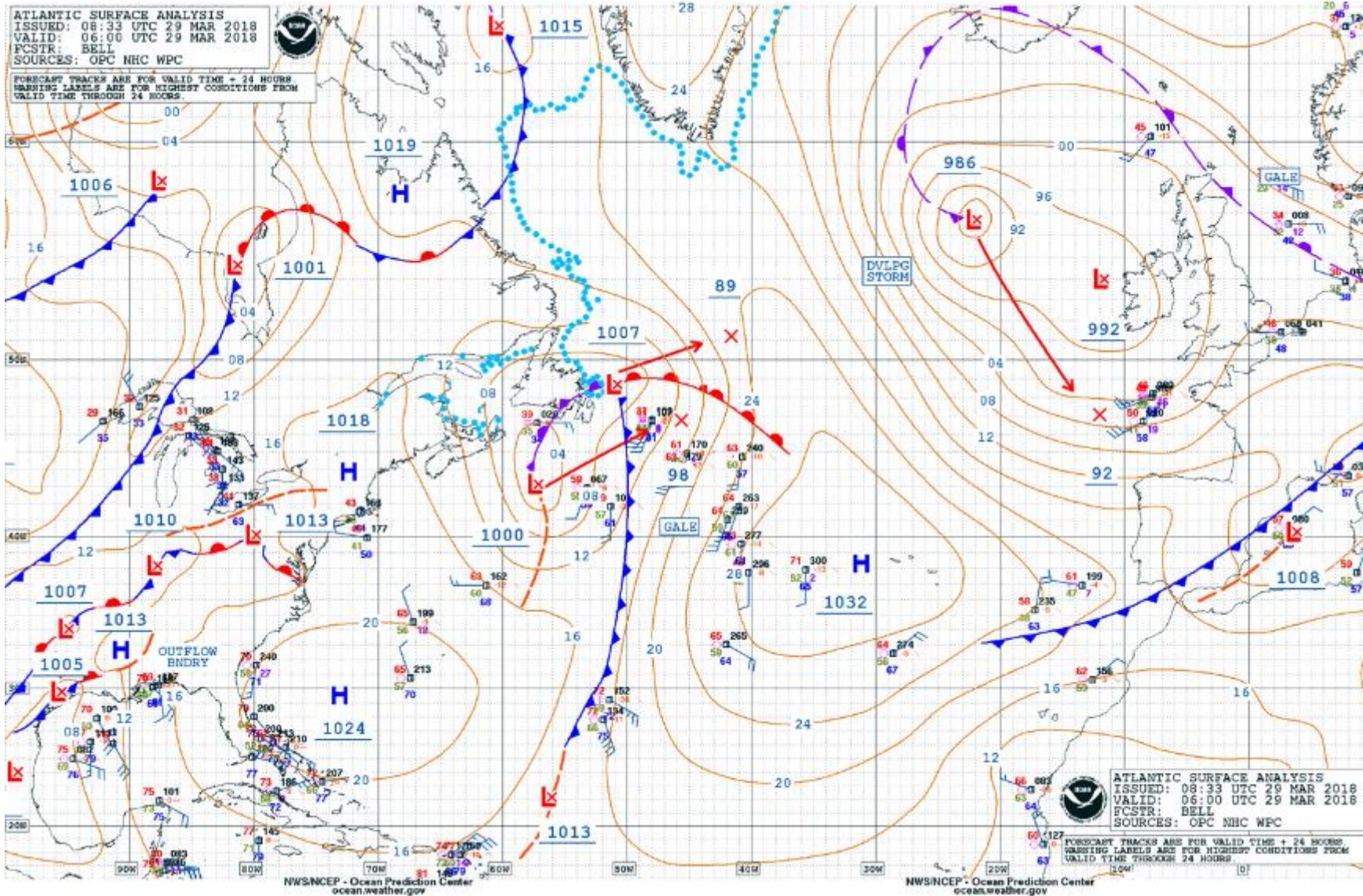
Light Drizzle & 1/4 mile visibility



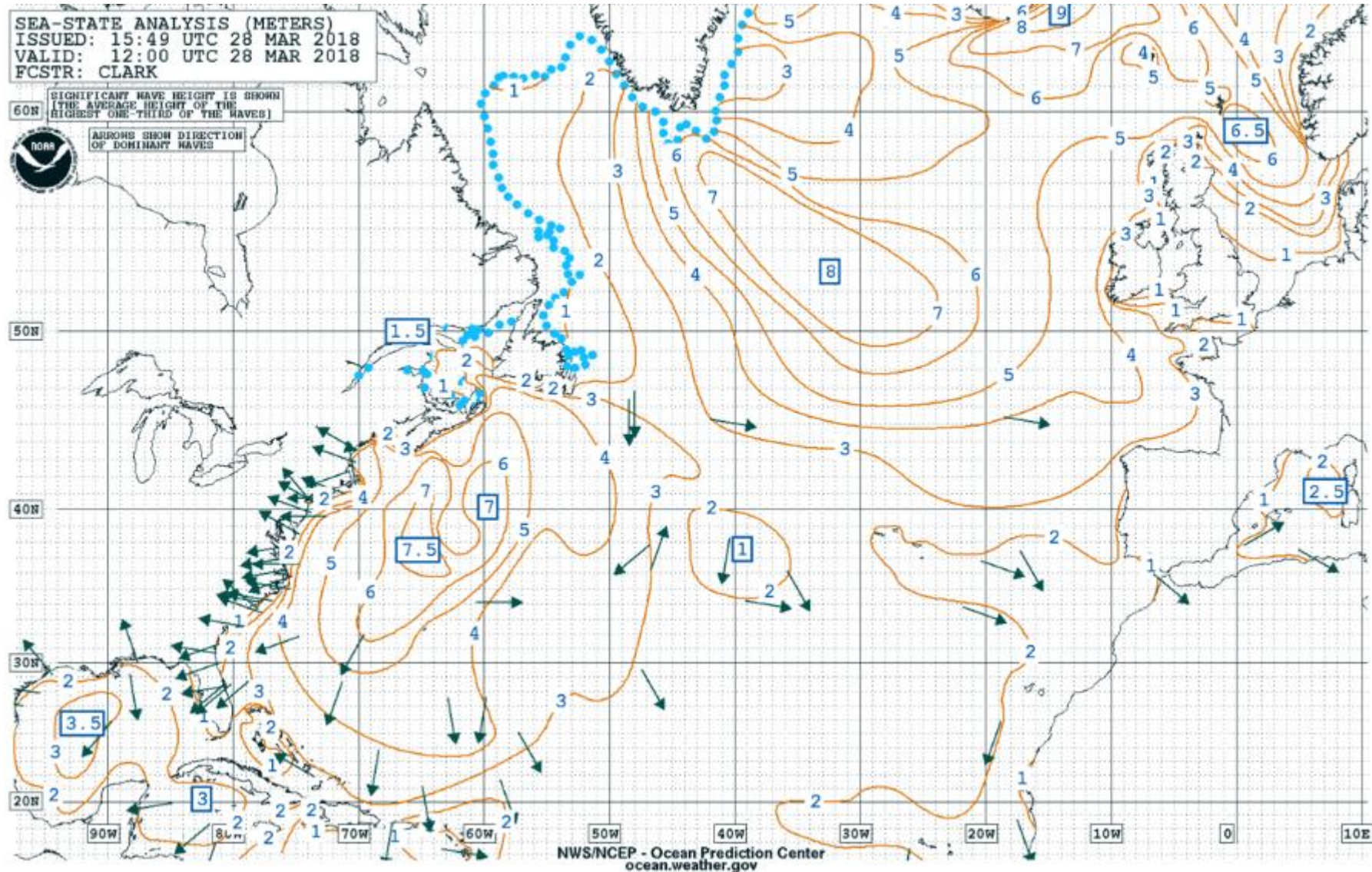
St. John's - TAF

TAF CYYT 291138Z 2912/3012 10005KT 1/4SM -DZ FG VV002 TEMPO 2912/2921 2SM -RA -DZ BR OVC004 BECMG 2914/2916 04005KT FM292100 35015G25KT 1/4SM -RA -DZ FG VV001 FM300200 33015G25KT 1SM BR OVC005 PROB30 3002/3012 3/4SM -FZDZ BR OVC003 RMK NXT FCST BY 291800Z=				
TAF		LOCATION CYYT - ST. JOHN'S INTL/NL		VALIDITY [UTC] 29 MAR - 1138 to 30 MAR - 1200
TIMES [UTC]	WIND [DEGREES TRUE]	VISIBILITY [STAT. MILES]	WEATHER	CLOUDINESS [FEET AGL]
29 MAR - 1200 to 29 MAR - 2100	100 @ 5 KNOTS	1/4	LIGHT DRIZZLE FOG	VERTICAL VISIBILITY 200
TEMPORARY CHANGES 29 MAR - 1200 to 29 MAR - 2100		2	LIGHT RAIN LIGHT DRIZZLE MIST	400 OVERCAST
BECOMING 29 MAR - 1400 to 29 MAR - 1600	40 @ 5 KNOTS			
29 MAR - 2100 to 30 MAR - 0200	350 @ 15 KNOTS GUSTS 25 KNOTS	1/4	LIGHT RAIN LIGHT DRIZZLE FOG	VERTICAL VISIBILITY 100
30 MAR - 0200 to 30 MAR - 1200	330 @ 15 KNOTS GUSTS 25 KNOTS	1	MIST	500 OVERCAST
30% PROBABILITY 30 MAR - 0200 to 30 MAR - 1200		3/4	LIGHT FREEZING DRIZZLE MIST	300 OVERCAST
REMARKS THE NEXT FORECAST WILL BE ISSUED BY 1800 UTC ON DAY 29				

Surface Analysis



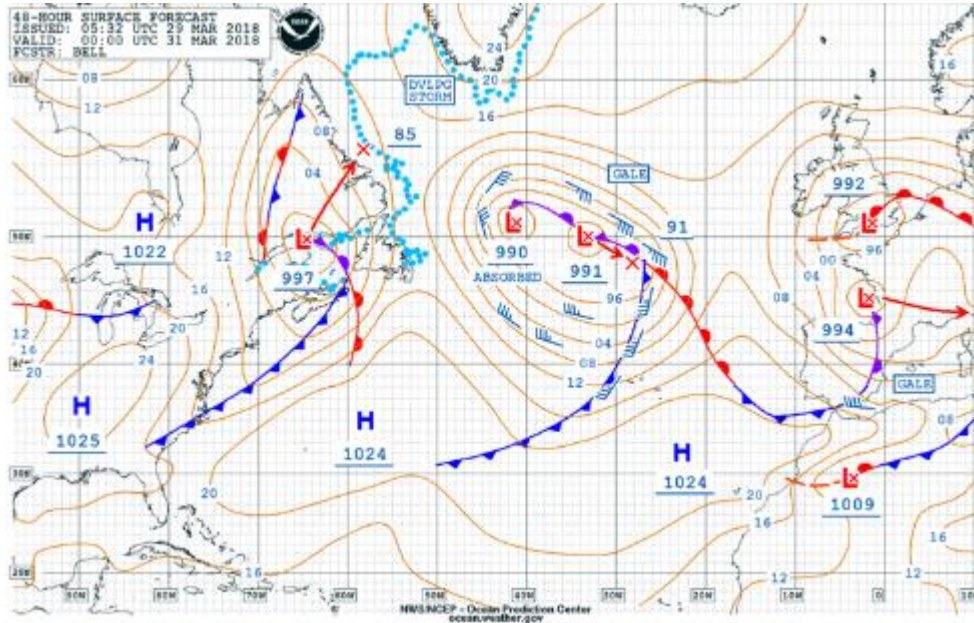
Sea State Analysis



- Significant Wave Height is shown (in meters). This is the average height of the highest one-third of the waves
- Arrows show direction of dominant waves

Synoptic Forecast

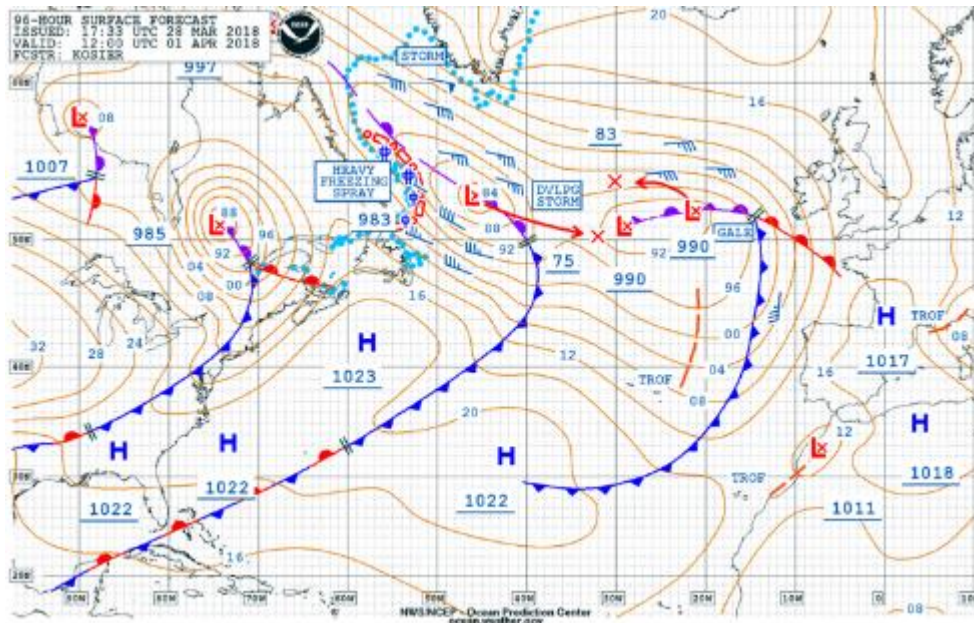
Friday 9:30pm NDT/10pm Ship



Saturday 9:30am NDT/10am Ship

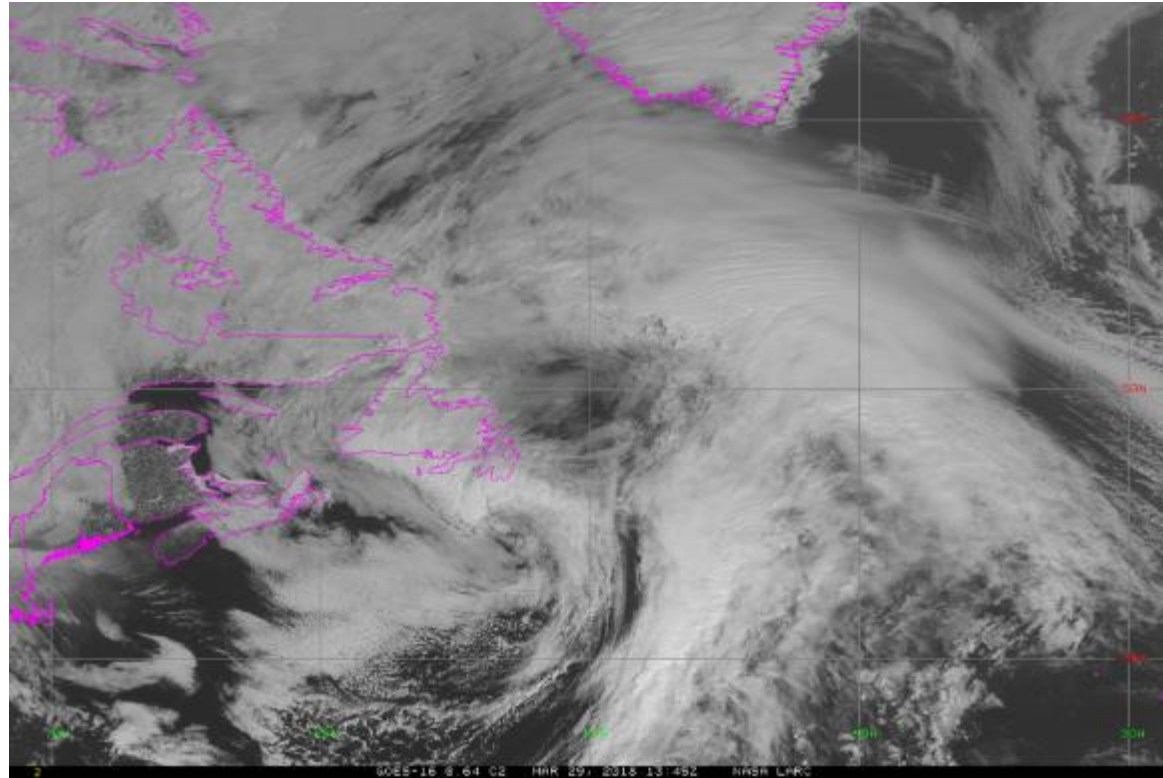
Not issued yet

Sunday 9:30am NDT/10am Ship

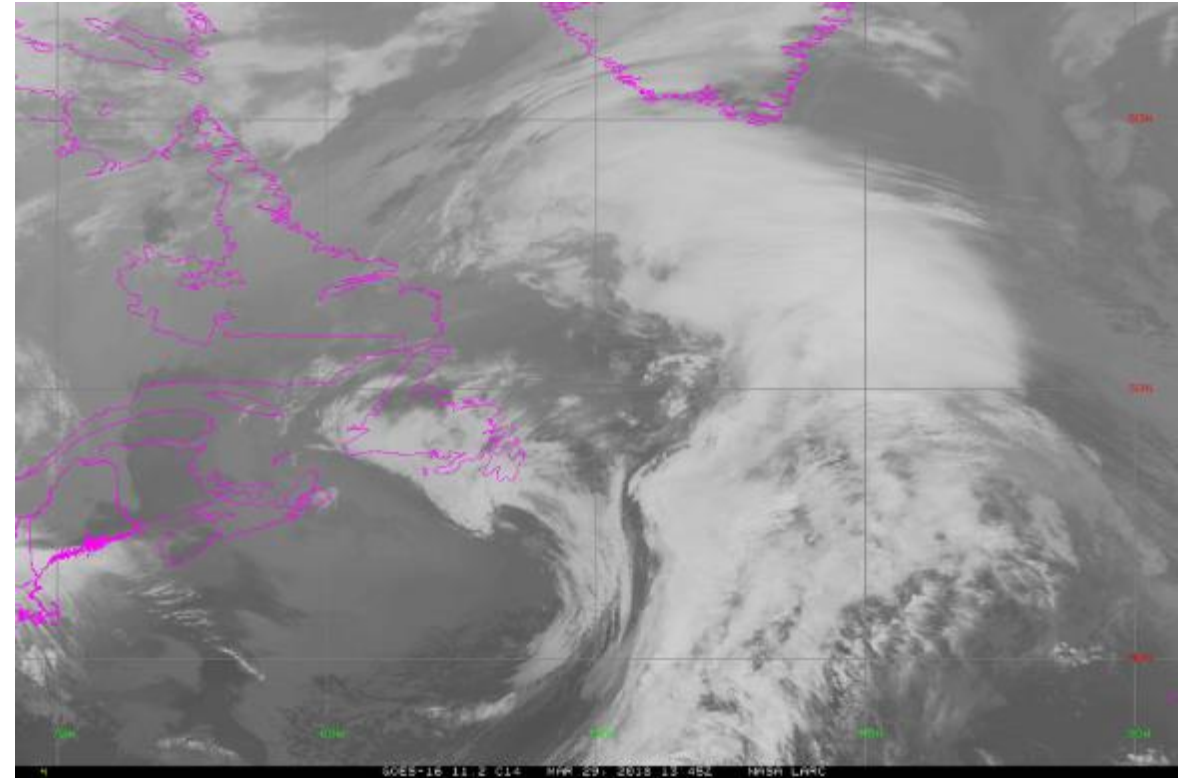


GOES-16 Imagery (3/29 13:45 UTC)

Visible

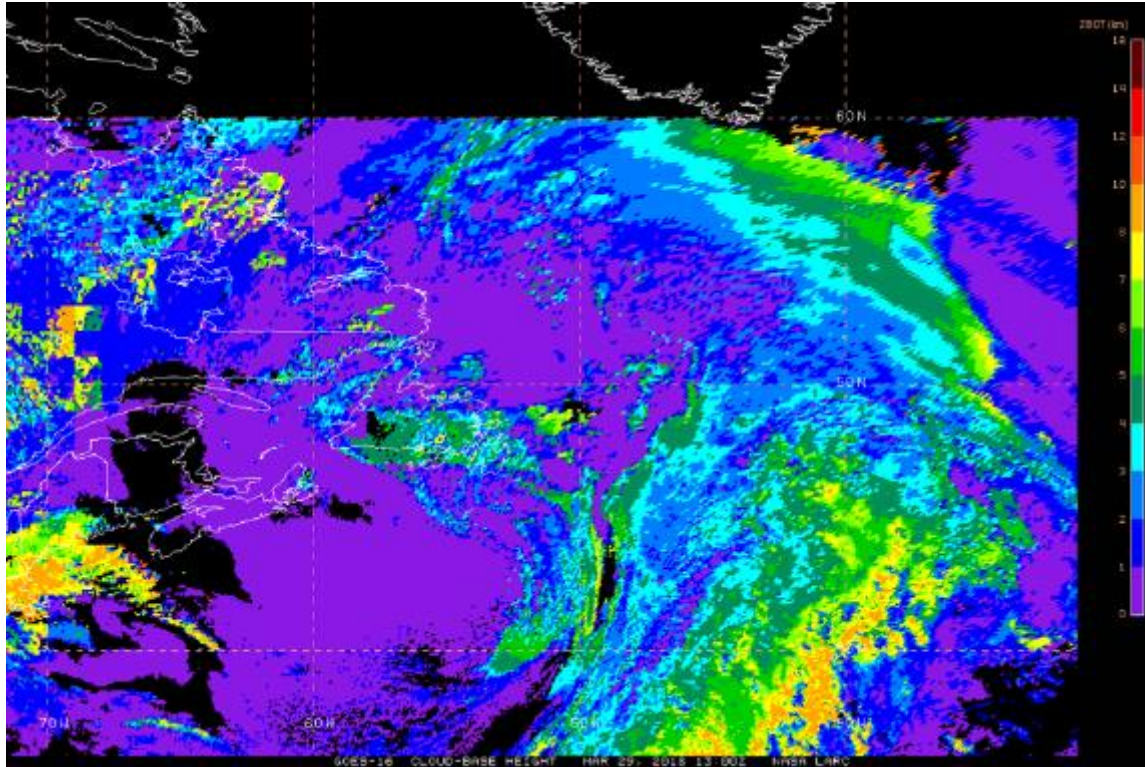


IR

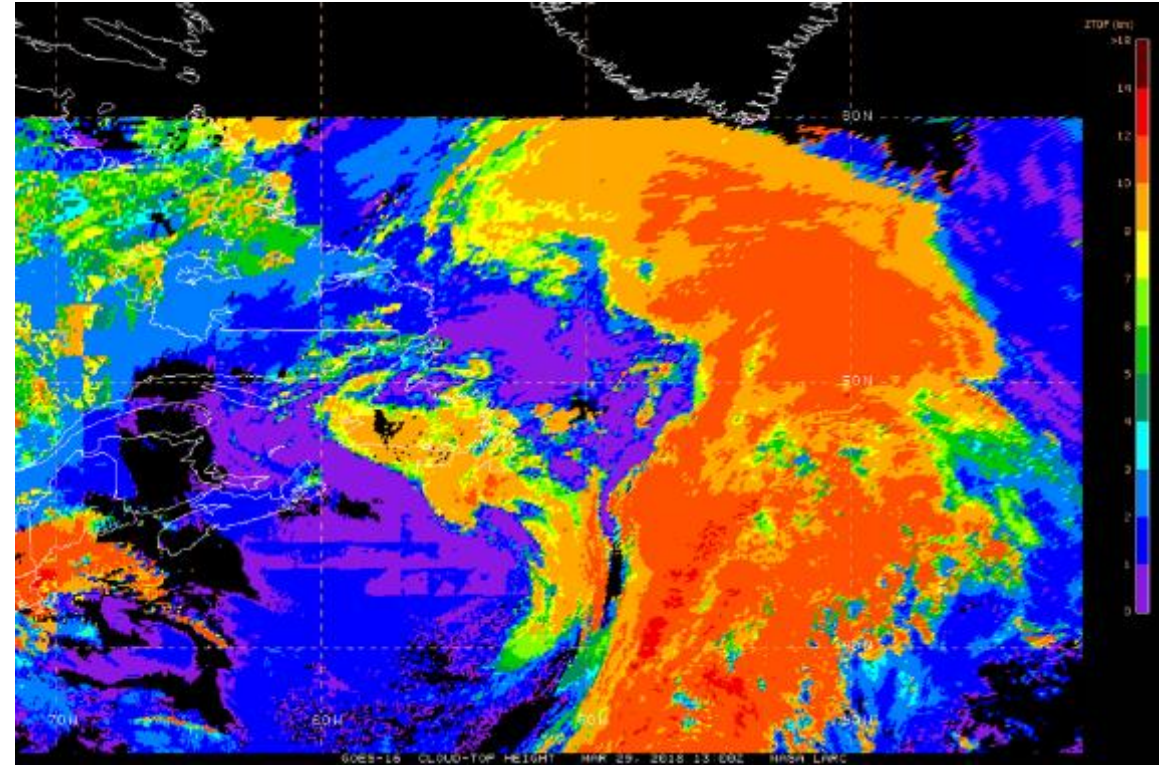


GOES-16 Cloud Products (3/29 13:00 UTC)

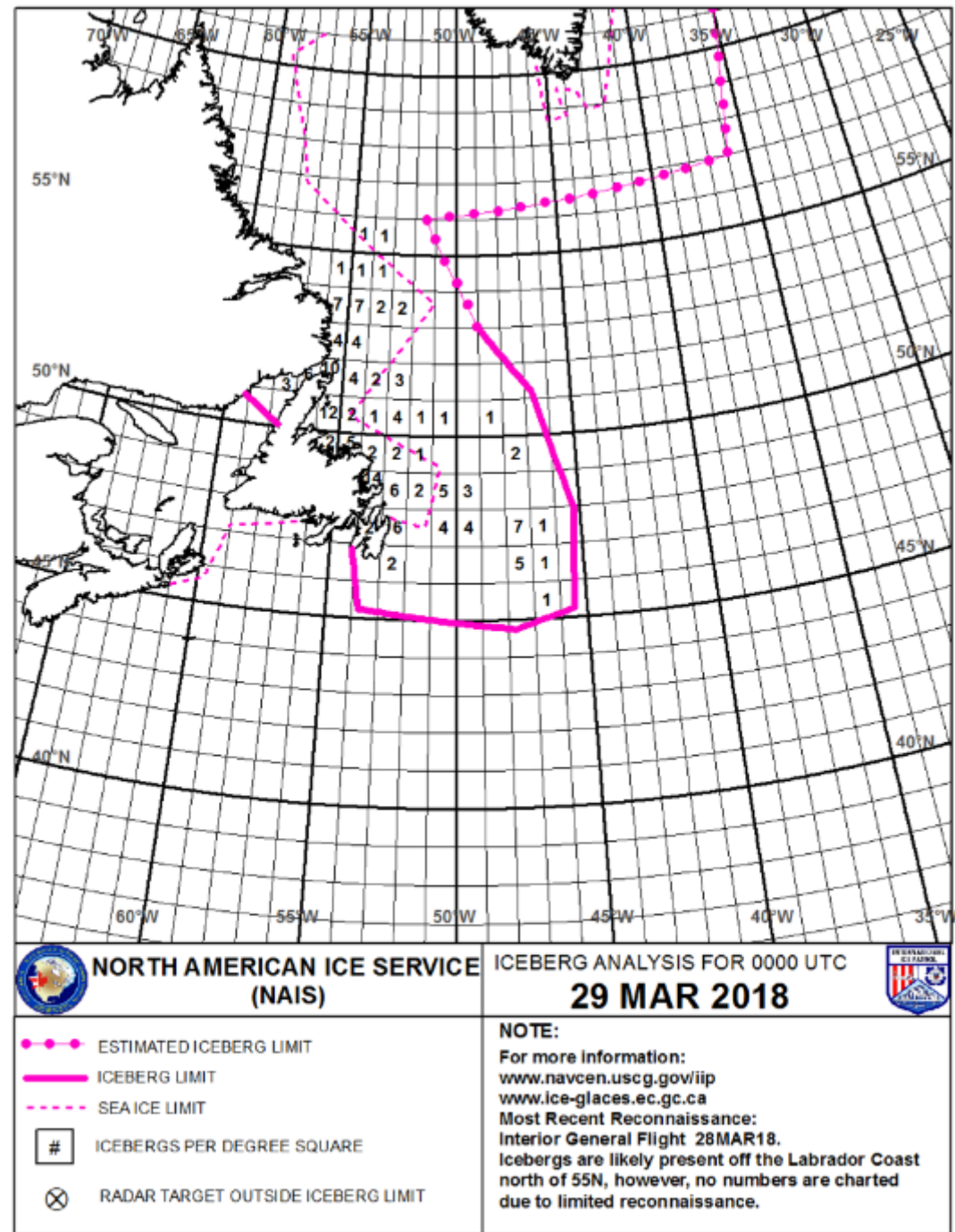
Cloud Base Heights



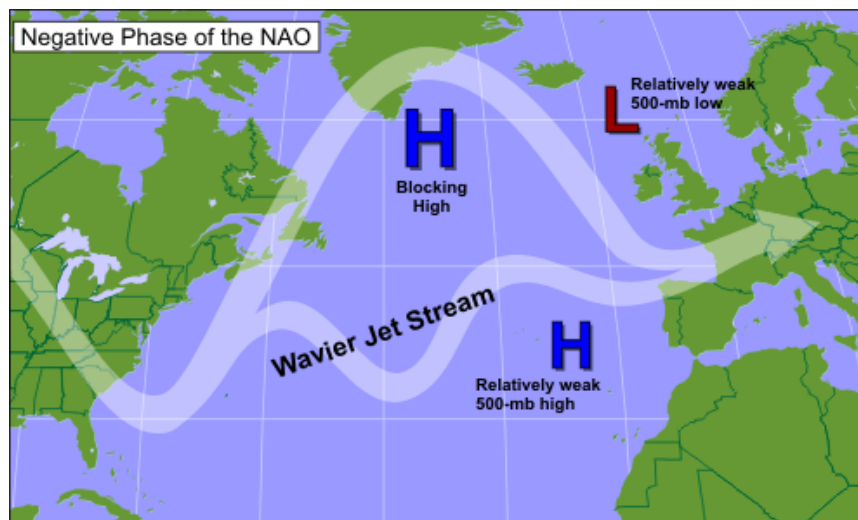
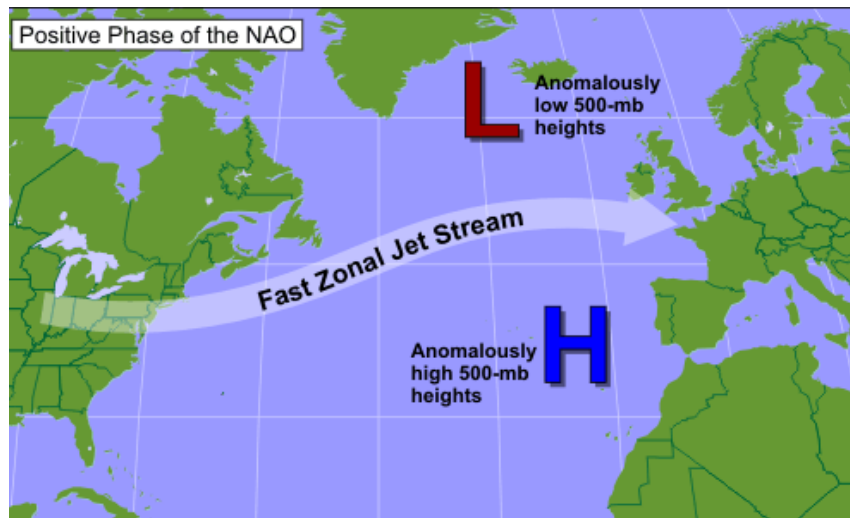
Cloud Top Heights



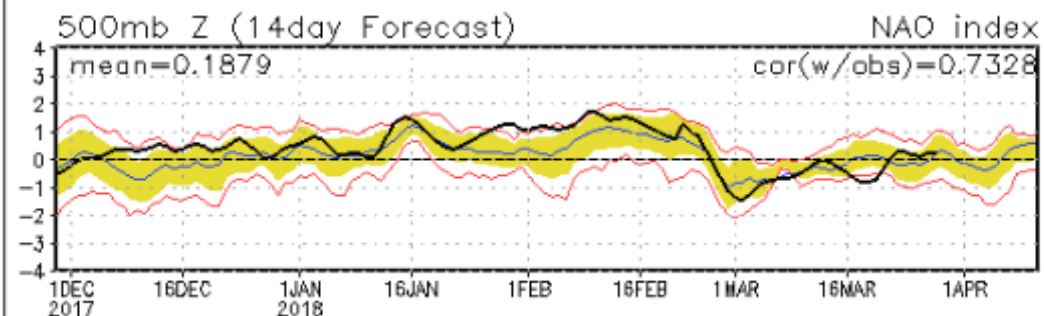
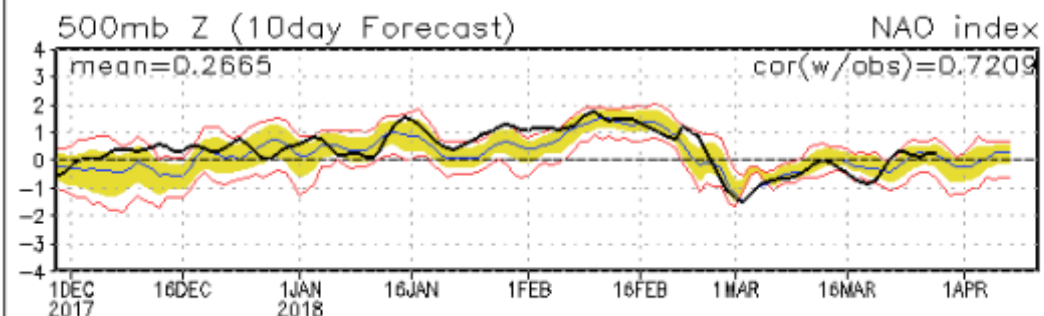
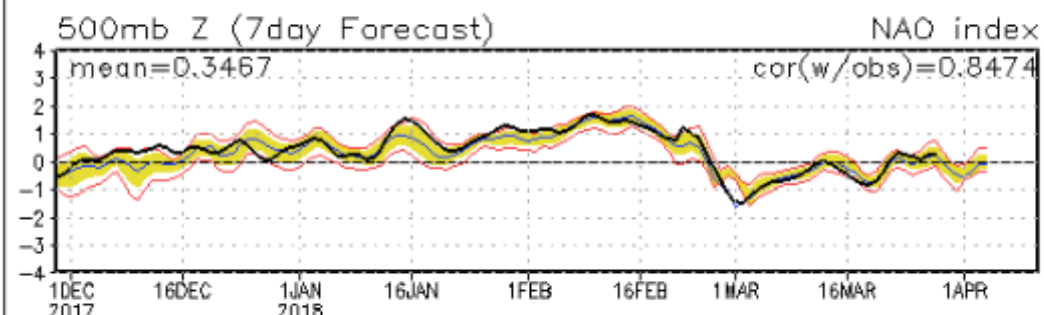
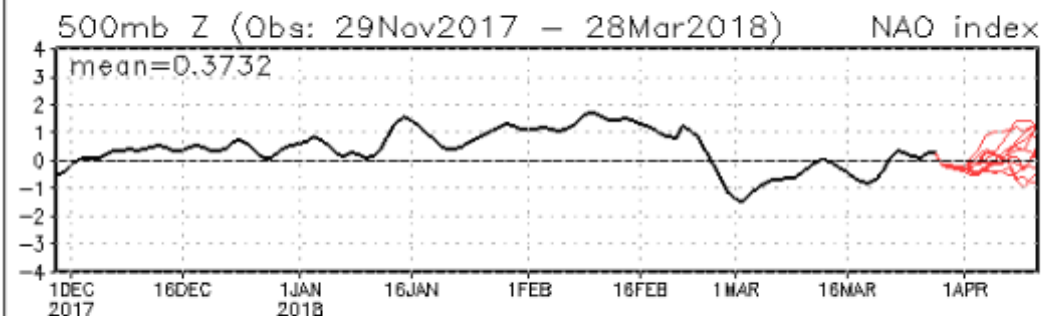
Sea Ice and Icebergs



Current NAO

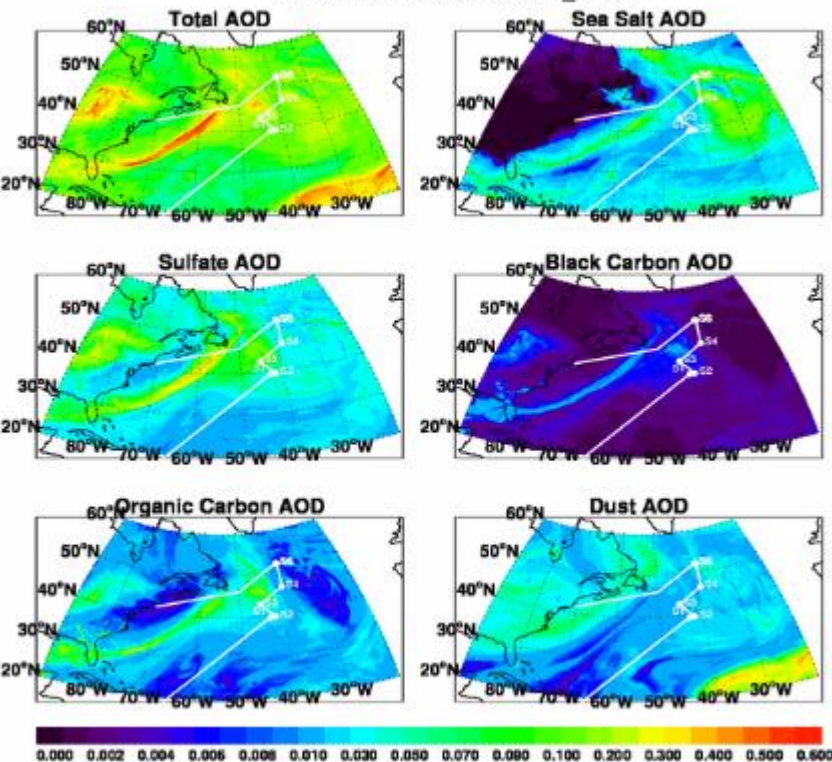


NAO: Observed & ENSM forecasts

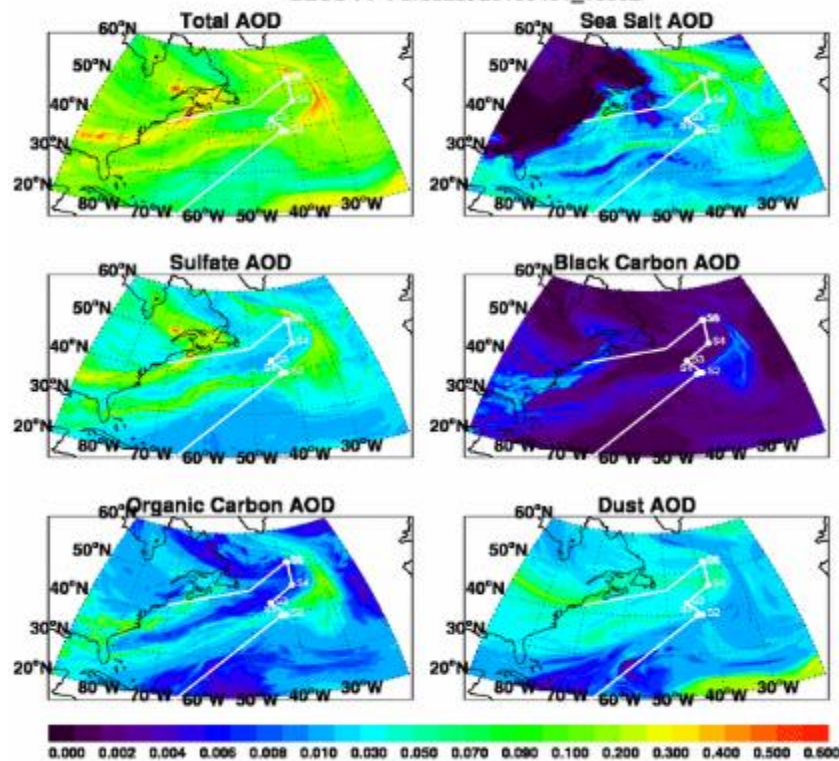


GEOS-5

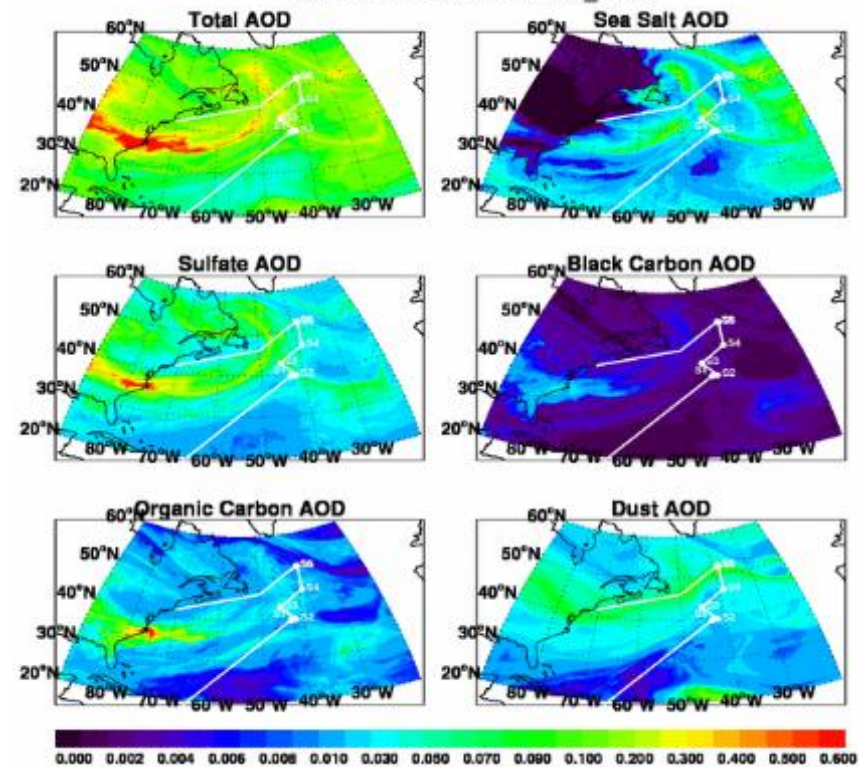
GEOS-FP Forecast 20180331_1800Z



GEOS-FP Forecast 20180401_1800Z

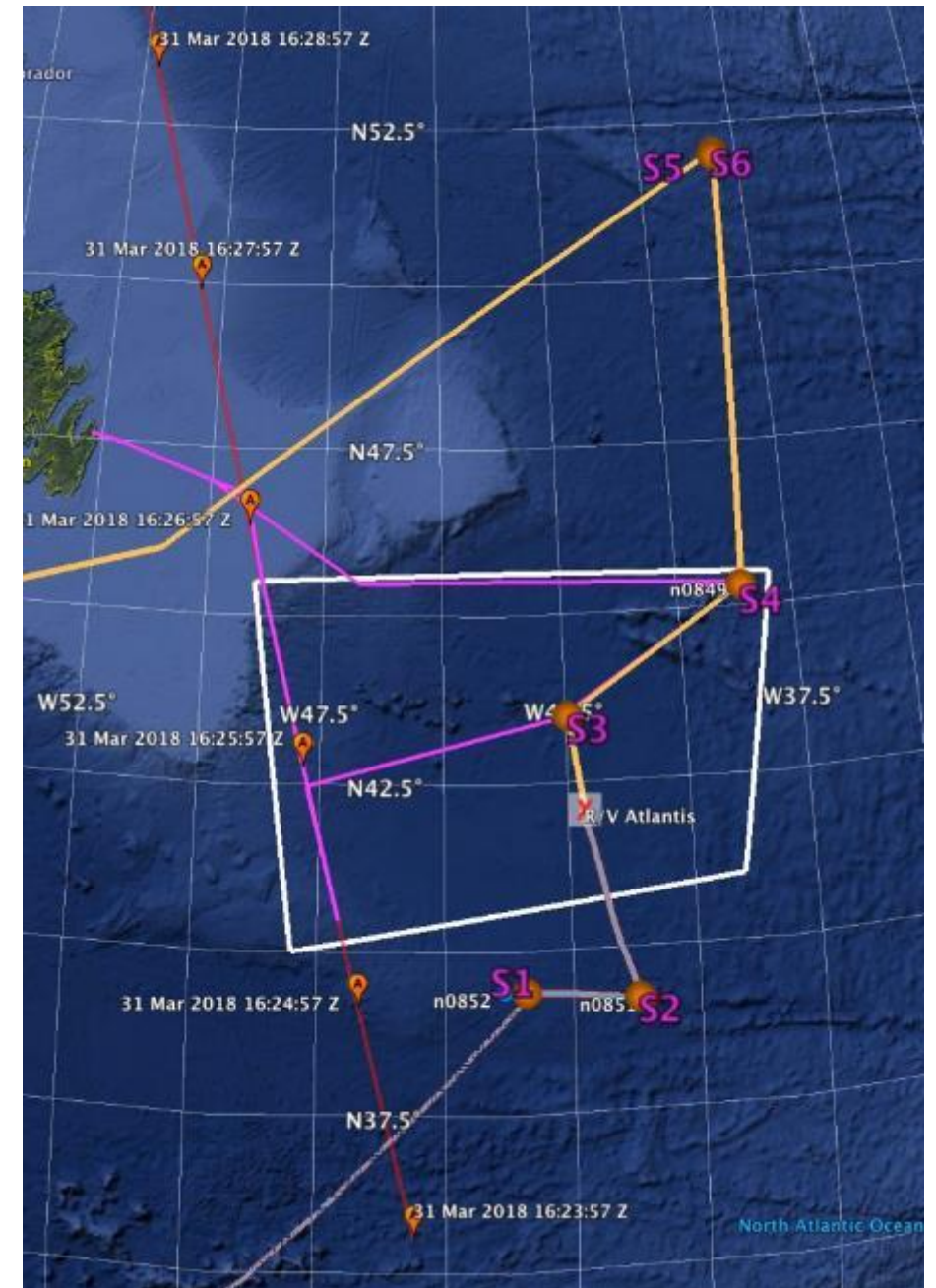
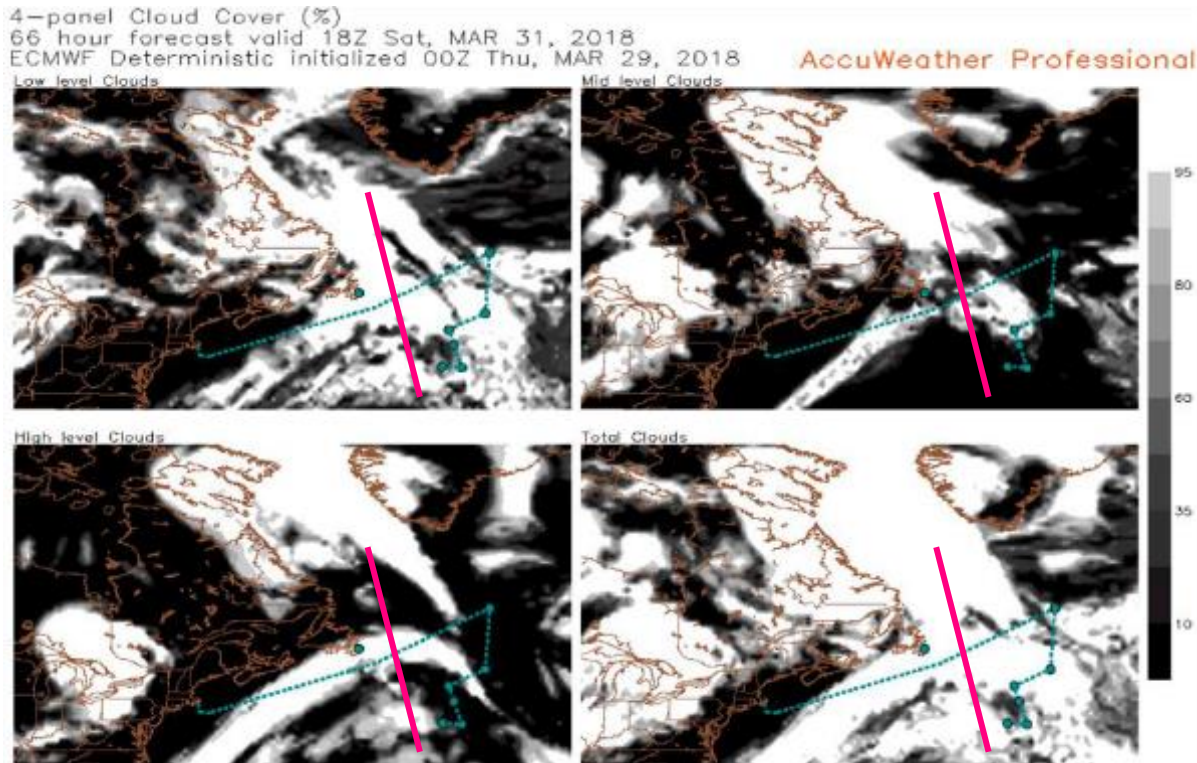


GEOS-FP Forecast 20180402_1800Z



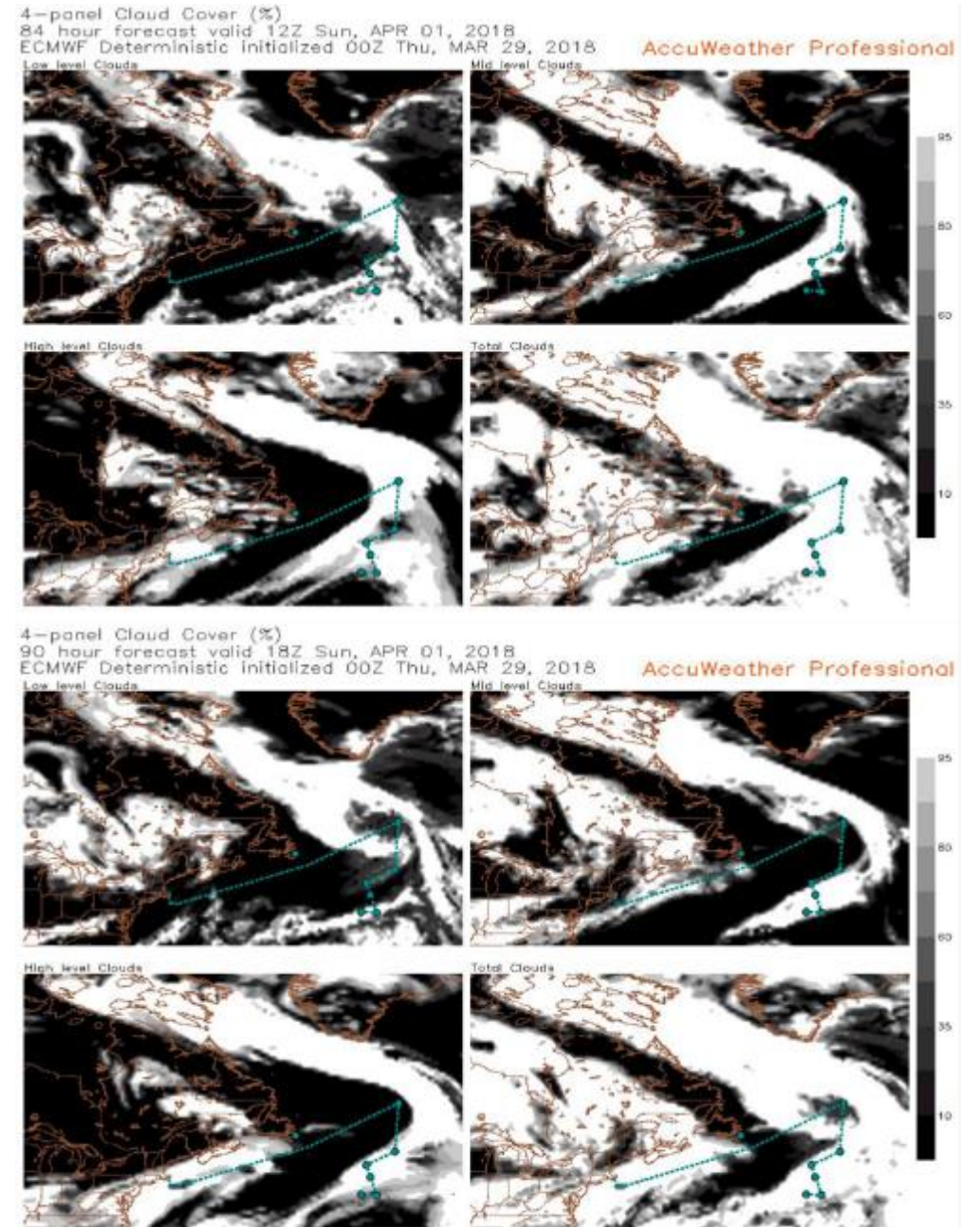
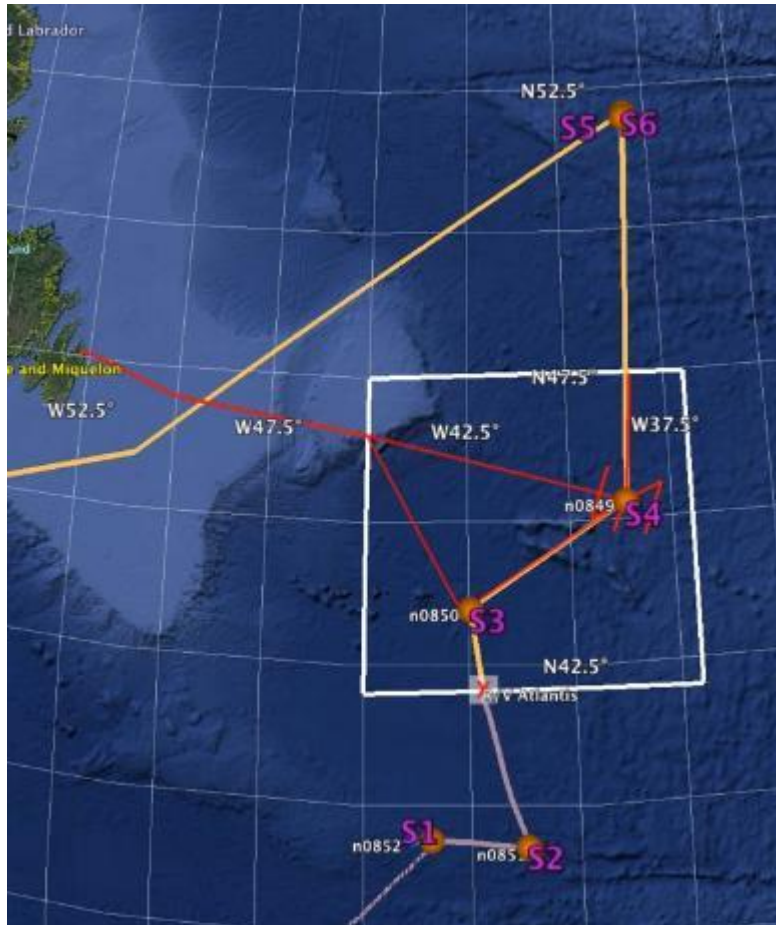
Saturday, 3/31 Flight Option

- Ship is either still at S3 or in transit to S4
- Flight goes out to CALIPSO track, then to S3, along ship track and complete a cloud module over the ship, and to S4



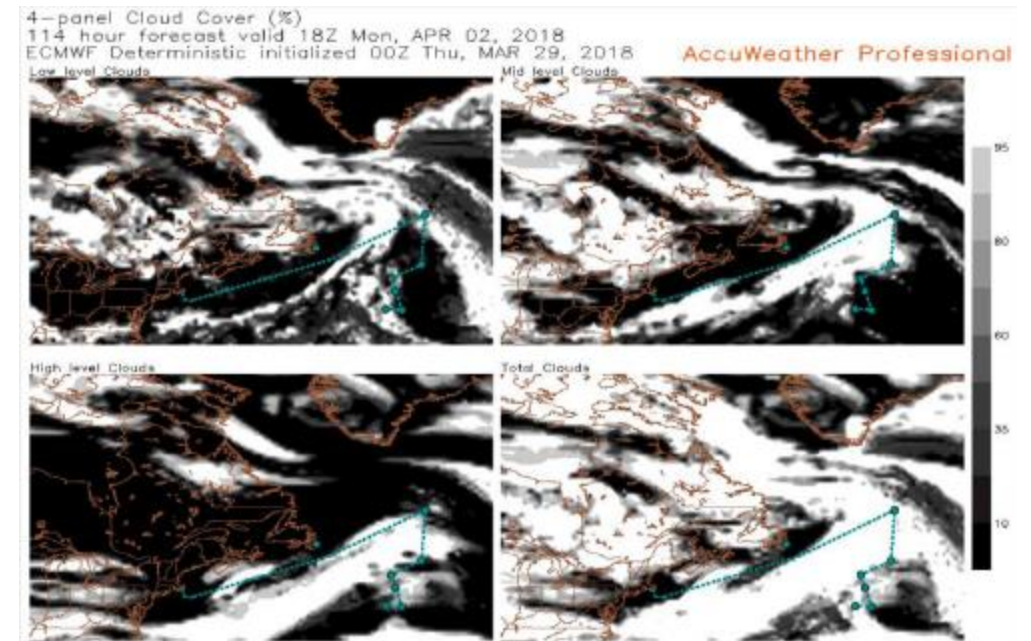
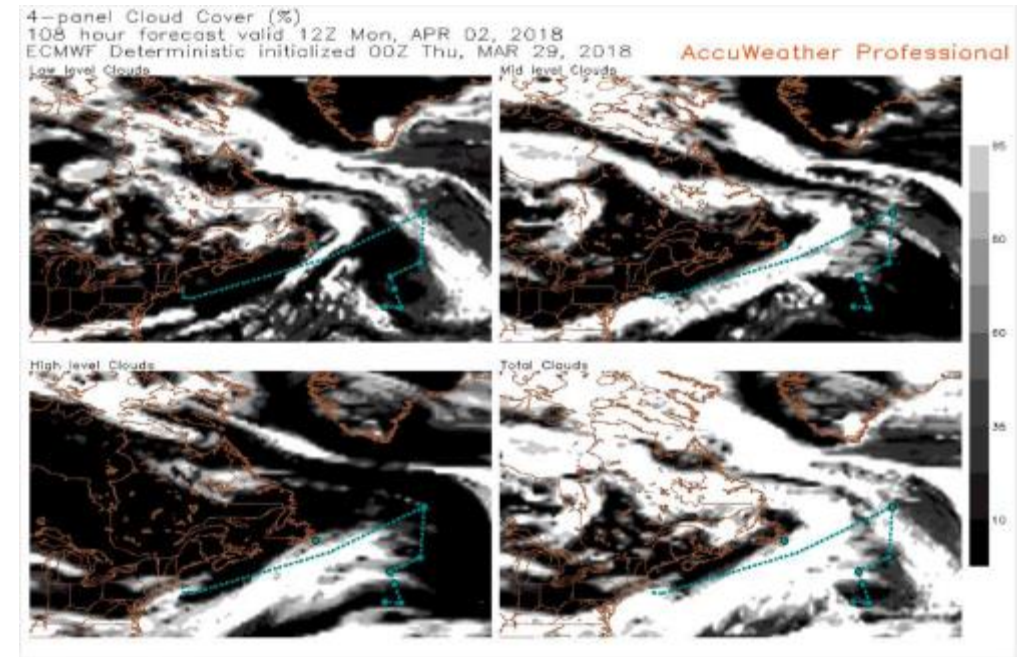
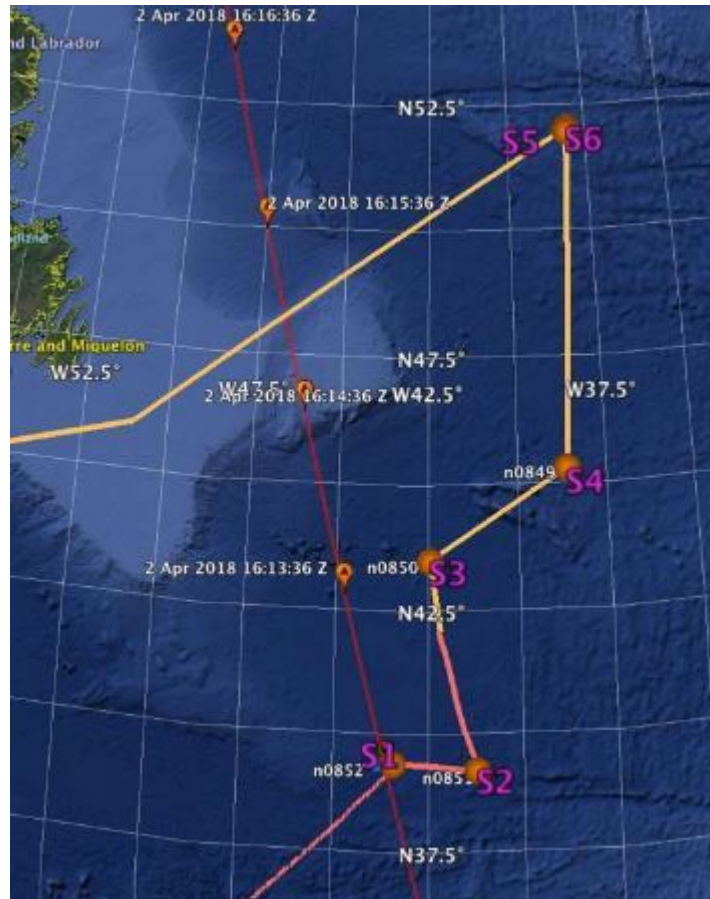
Sunday, 4/1 Flight Option

- Ship is either in transit to S4 or at S4
- Flight goes to S3, along ship track, to S4 to complete Z pattern and then a cloud module over the ship



Monday, 4/2 Flight Option

- Ship is either still at S4 or in transit to S5/S6 with a possible “mini station” on anticyclonic eddy
- Flight out to S4 and up along ship transit/maybe CALIPSO



Tuesday 4/3 Flight Option

- Ship is in transit to S5/S6, with a possible “mini stations” on anticyclonic eddy
- No CALIPSO track
- Remote sensing flight out along ship transit from S4 to S5/S6, work ship

