

NAAMES

WX Briefing

Wednesday, March 28, 2018

Michael Shook

Forecast Highlights

System currently affecting St. John's moves northeast and then up and around the ridge, moving out of the ship region by late Saturday. Cold front passes over the ship roughly Friday morning.

- **Model agreement:** good agreement through Thursday; after that, models roughly agree on features, but not their strength.
- **Next system:** Moves up the East Coast into Labrador by Saturday afternoon, then a portion gets peeled off and develops over the ship domain Sunday.
- **Ship:** Winds pick up ahead of and behind the cold front, with the worst likely at S3 Friday. Seas are rougher also (up to 12-18 ft), but the worst looks to miss to the north. Winds increase again Sunday, but waves die down(?).
- **St. John's:** Rainy and cool through Friday morning. Friday is nice, but rain and wind return for the weekend.

Forecast Summary

Day	St. John's	Ship Location	Ship Weather	Recommendation
Day 1 Thursday 3/29	Rain throughout the day Morning low: 37; High: 39 Winds: NE 15-25mph Low Visibility/Ceilings	Transit to S3	Waves: W 7 inc. to 15 ft Winds: SSW 15-30 kts Clouds: Partly cloudy low, overcast high Precip: None	Down
Day 2 Friday 3/30	Partly cloudy Morning low: 32; High: 42 Winds: NW 15-25 mph	At S3	Waves: W 12-18 ft Winds: WNW 25-35 kts Clouds: Overcast (L) Precip: Rain (heavier in the morning)	Probably Down
Day 3 Saturday 3/31	Rain in the AM, cloudy afternoon Morning low: 33; High: 50 Winds: SW 10-20mph Fog/Low ceiling potential in AM	Transit to S4	Waves: WNW 12-18 ft Winds: WNW 20-30 kts Clouds: Overcast low, partly cloudy high Precip: Showers likely	Fly if able (cloud work at ship)
Day 4 Sunday 4/1	Partly cloudy and windy Morning low: 29; High: 40 Winds: W 20-30mph	At S4	Waves: Variable 7 inc. to 12 ft Winds: W 25-35 kts Clouds: Overcast (mostly cloudy at all levels) Precip: Light rain likely around midday	Fly if able (work the ship early, remote sensing later)
Day 5 Monday 4/2	Periods of rain early, partly cloudy in the afternoon. Morning low: 32; High: 40 Winds: WSW 20-30mph	Transit to S5	Waves: NW 9-12 ft Winds: WNW 35-45 kts Clouds: Partly cloudy (L, H) Precip: Showers possible	Fly (S4 and/or ship track remote sensing)
Day 6 Tuesday 4/3	Partly cloudy Morning low: 26; High: 32 Winds: W 10-20mph	Transit to S5	Waves: Becoming WSW 9-12 ft Winds: WNW 15-25 kts Clouds: Overcast (L, H), partly cloudy mid Precip: Showers possible in the morning	Potential RS flight at S5/6

Planned Ship Route & Forecast

Tuesday, 4/3

Waves: Becoming WSW 9-12 ft
Winds: WNW 15-25 kts
Clouds: Overcast (L, H), partly cloudy mid
Precip: Showers possible in the morning

Sunday, 4/1

Waves: Variable 7 inc. to 12 ft
Winds: W 25-35 kts
Clouds: Overcast (mostly cloudy at all levels)
Precip: Light rain likely around midday

Friday, 3/30 S3

Waves: W 12-18 ft
Winds: WNW 25-35 kts
Clouds: Overcast (L)
Precip: Rain (heavier in the morning)

Monday, 4/2

Waves: NW 9-12 ft
Winds: WNW 35-45 kts
Clouds: Partly cloudy (L, H)
Precip: Showers possible

Saturday, 3/31

Waves: WNW 12-18 ft
Winds: WNW 20-30 kts
Clouds: Overcast low, partly cloudy high
Precip: Showers likely

Thursday, 3/29

Waves: W 7 inc. to 15 ft
Winds: SSW 15-30 kts
Clouds: Partly cloudy (L), overcast (H)
Precip: None

Wednesday, 3/28 S2

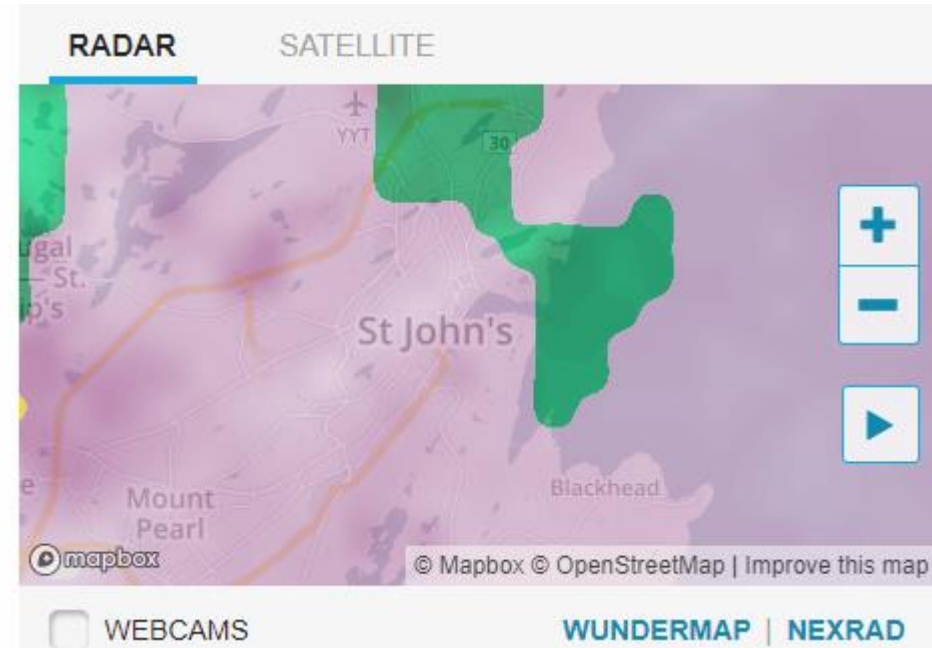
Waves: N 5-7 ft
Winds: SE 10-15 kts
Clouds: Mostly cloudy (H)
Precip: Showers possible

Current Conditions at St. John's

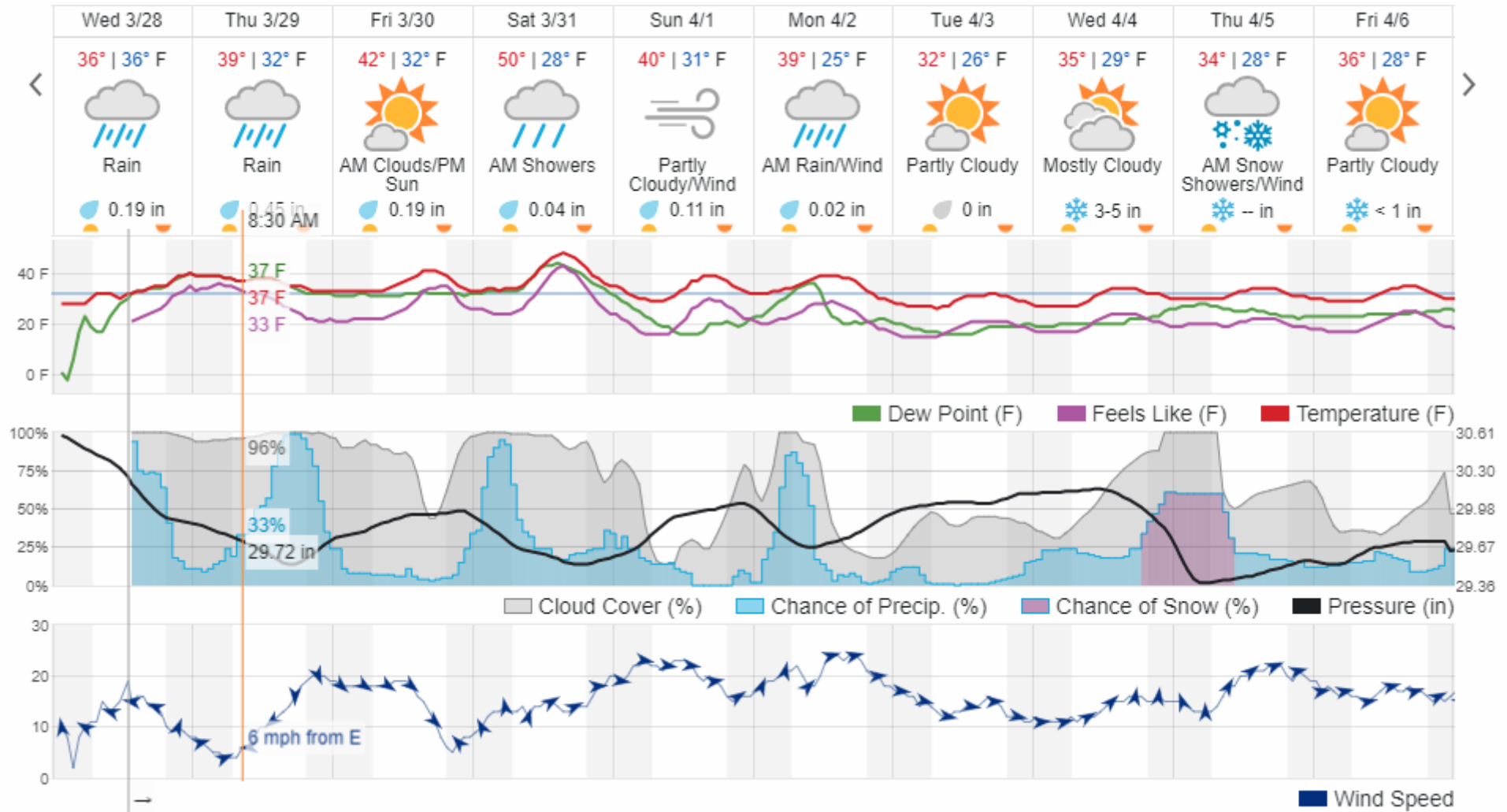
© 11:50 AM ADT on March 28, 2018 (GMT -0300) | Updated a few seconds ago



Today is forecast to be **MUCH COOLER** than yesterday.



St. John's Forecast

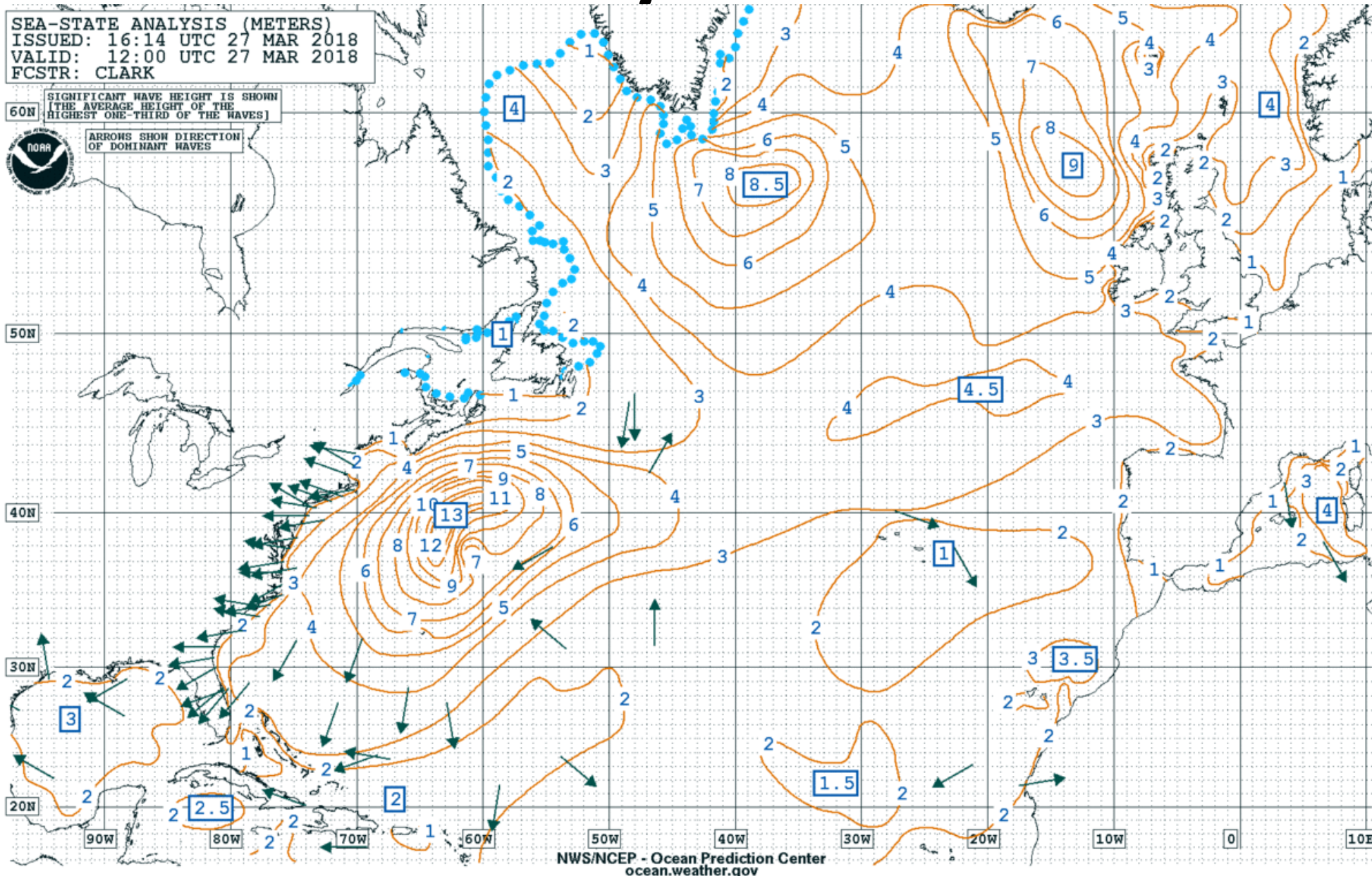


St. John's TAF

TAF AMD CYYT 281314Z 2813/2912 10015G25KT P6SM -FZRA OVC010 TEMPO 2813/2815 3SM -RA BR BKN003 OVC010 FM281500 12020G30KT 3/4SM RA BR OVC003 TEMPO 2815/2820 2SM -RA BR OVC005 PROB30 2815/2820 1/2SM RA FG OVC002 FM282000 18012KT 1/2SM -RA FG VV002 BECMG 2822/2824 18007KT FM290200 18005KT 1/4SM -DZ FG VV001 BECMG 2904/2906 VRB03KT RMK NXT FCST BY 281800Z=

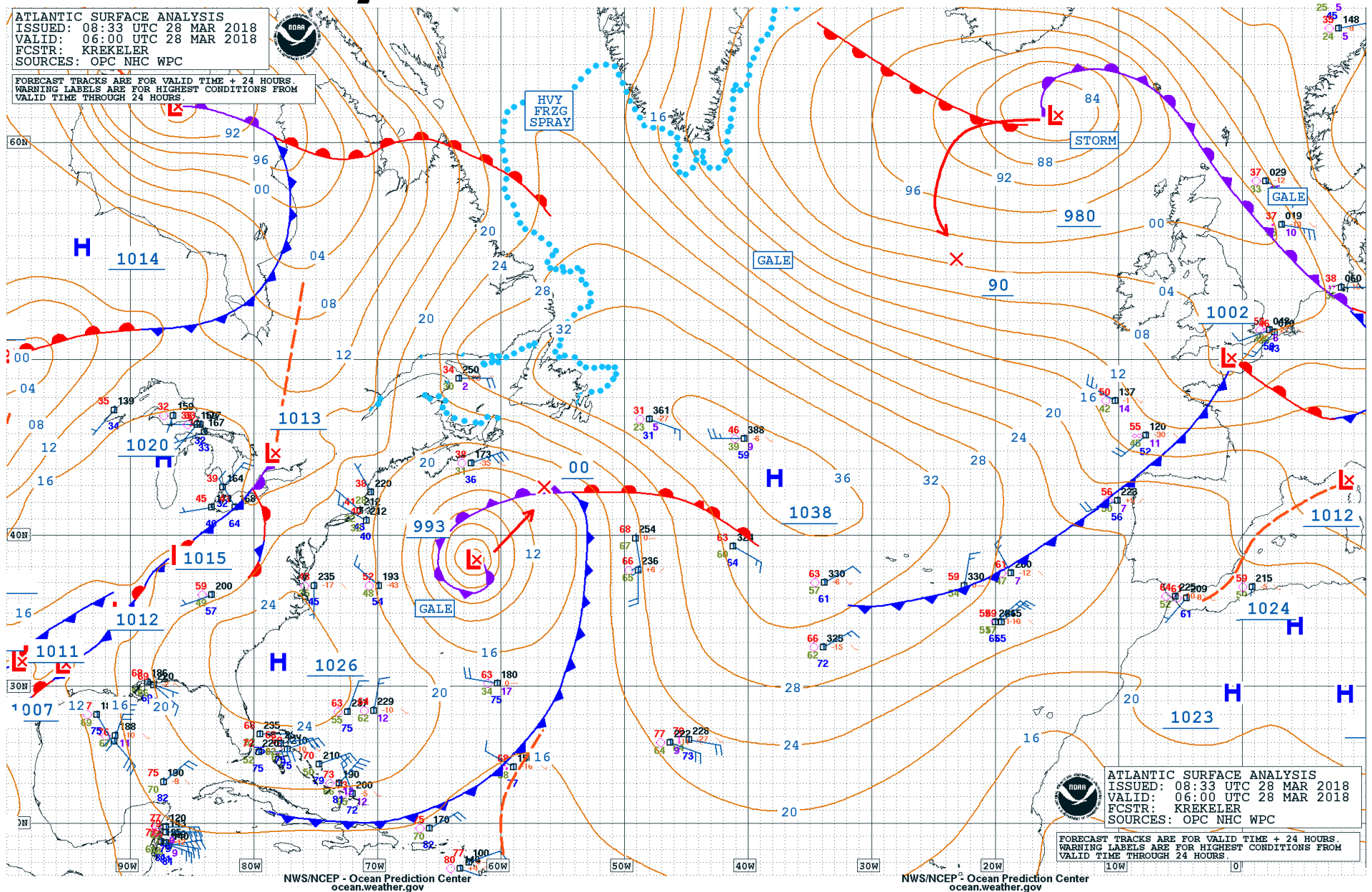
AMENDED TAF		LOCATION		VALIDITY [UTC]
		CYYT - ST. JOHN'S INTL/NL		28 MAR - 1314 to 29 MAR - 1200
TIMES [UTC]	WIND [DEGREES TRUE]	VISIBILITY [STAT. MILES]	WEATHER	CLOUDINESS [FEET AGL]
28 MAR - 1300 to 28 MAR - 1500	100 @ 15 KNOTS GUSTS 25 KNOTS	6+	LIGHT FREEZING RAIN	1000 OVERCAST
TEMPORARY CHANGES 28 MAR - 1300 to 28 MAR - 1500		3	LIGHT RAIN MIST	300 BROKEN 1000 OVERCAST
28 MAR - 1500 to 28 MAR - 2000	120 @ 20 KNOTS GUSTS 30 KNOTS	3/4	MODERATE RAIN MIST	300 OVERCAST
TEMPORARY CHANGES 28 MAR - 1500 to 28 MAR - 2000		2	LIGHT RAIN MIST	500 OVERCAST
30% PROBABILITY 28 MAR - 1500 to 28 MAR - 2000		1/2	MODERATE RAIN FOG	200 OVERCAST
28 MAR - 2000 to 29 MAR - 0200	180 @ 12 KNOTS	1/2	LIGHT RAIN FOG	VERTICAL VISIBILITY 200
BECOMING 28 MAR - 2200 to 29 MAR - 0000	180 @ 7 KNOTS			
29 MAR - 0200 to 29 MAR - 1200	180 @ 5 KNOTS	1/4	LIGHT DRIZZLE FOG	VERTICAL VISIBILITY 100
BECOMING 29 MAR - 0400 to 29 MAR - 0600	VARIABLE @ 3 KNOTS			
REMARKS				
THE NEXT FORECAST WILL BE ISSUED BY 1800 UTC ON DAY 28				

Sea State Analysis



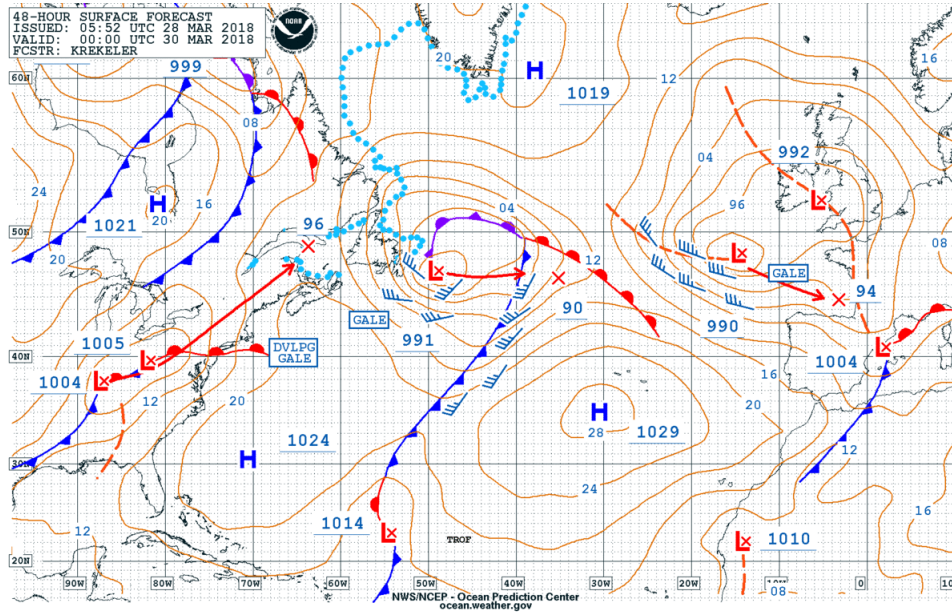
- Significant Wave Height is shown (in meters). This is the average height of the highest one-third of the waves
- Arrows show direction of dominant waves
- Product is a day behind

Surface Analysis

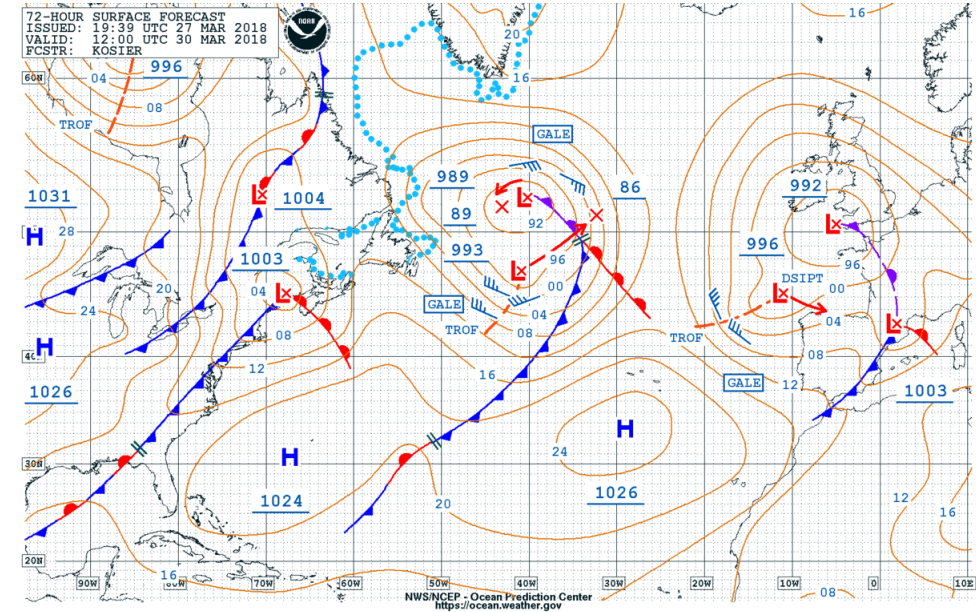


Synoptic Forecast

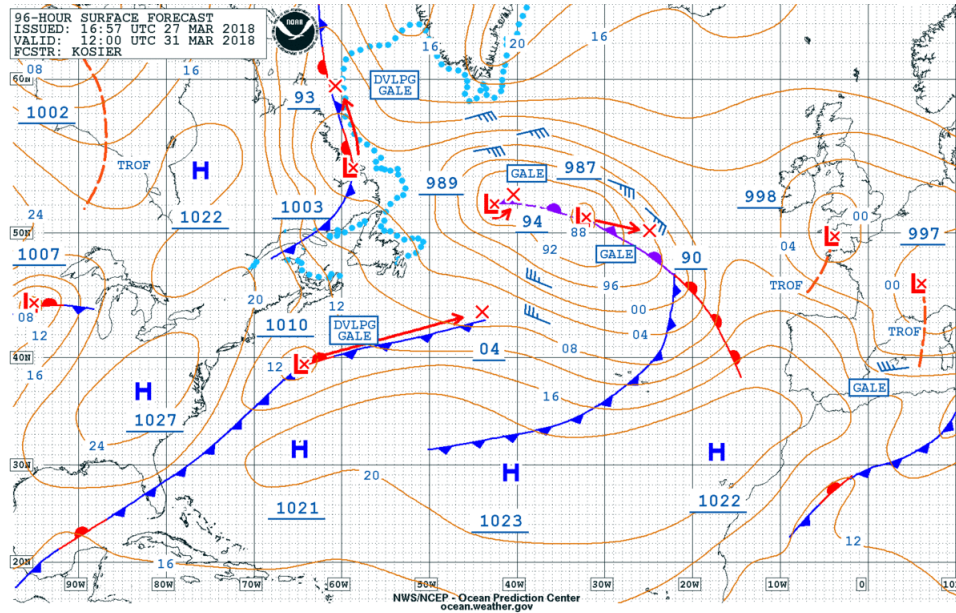
48 Hour Forecast - Thursday 10pm Ship Time (UTC-2)



72 Hour Forecast - Friday 10am Ship Time (UTC-2)



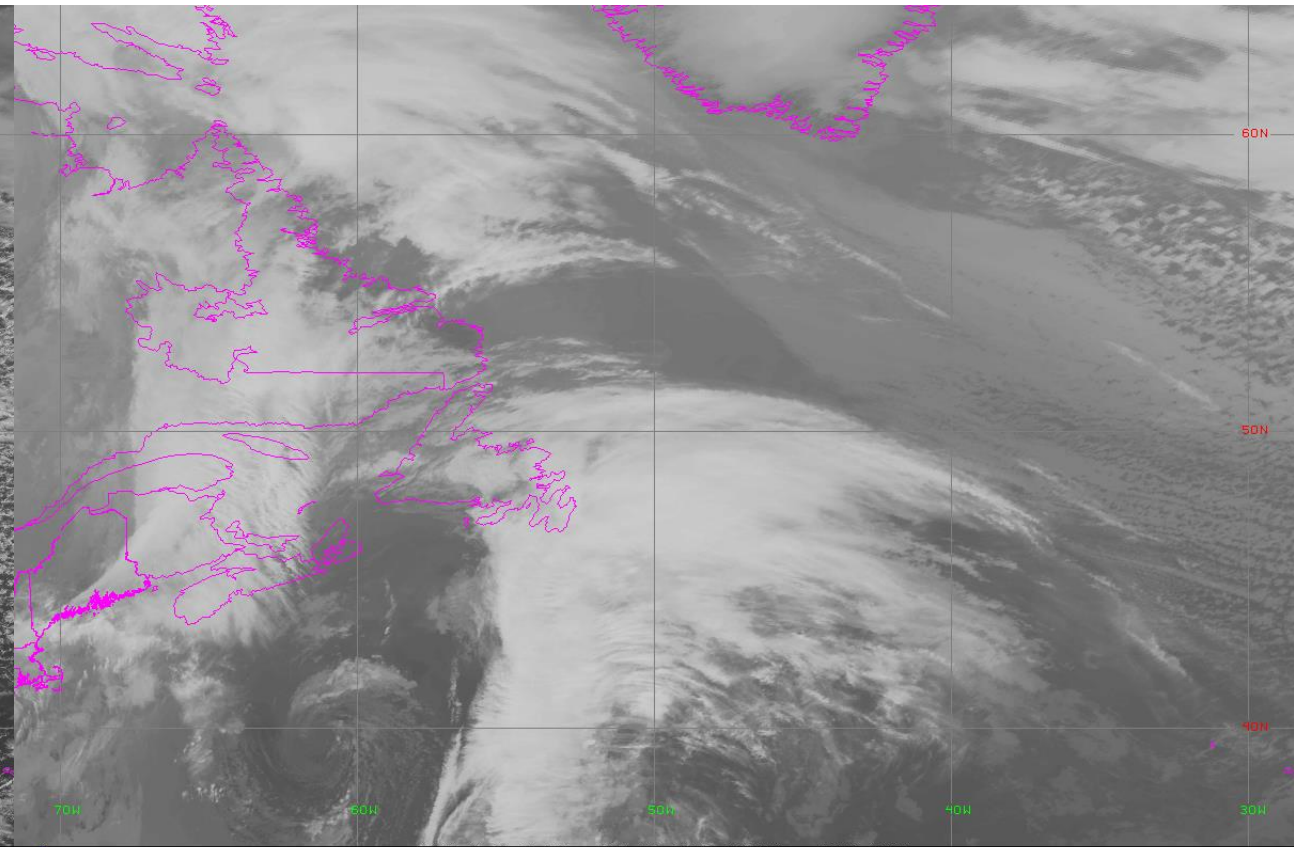
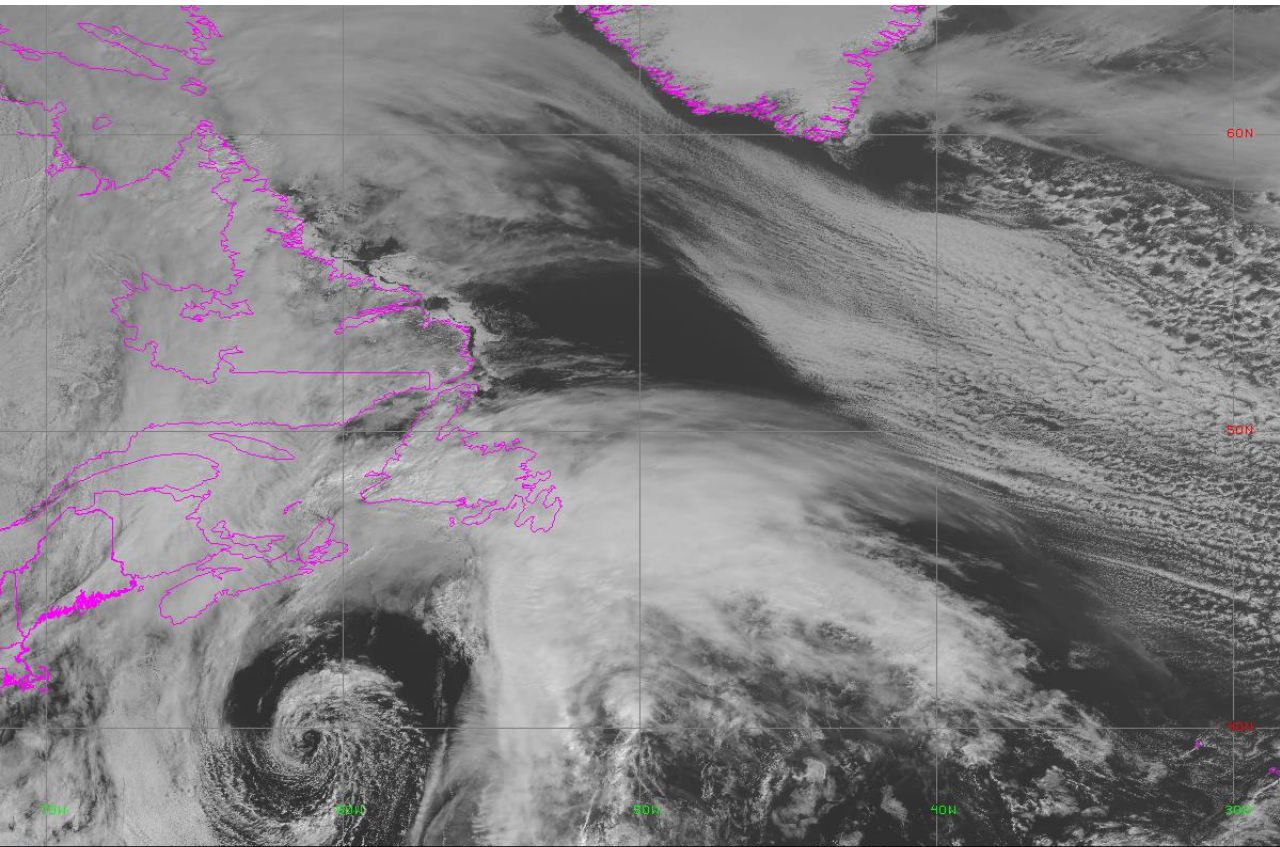
96 Hour Forecast - Saturday 10am Ship Time (UTC-2)



GOES-16 Imagery (3/28 14:15 UTC)

Visible

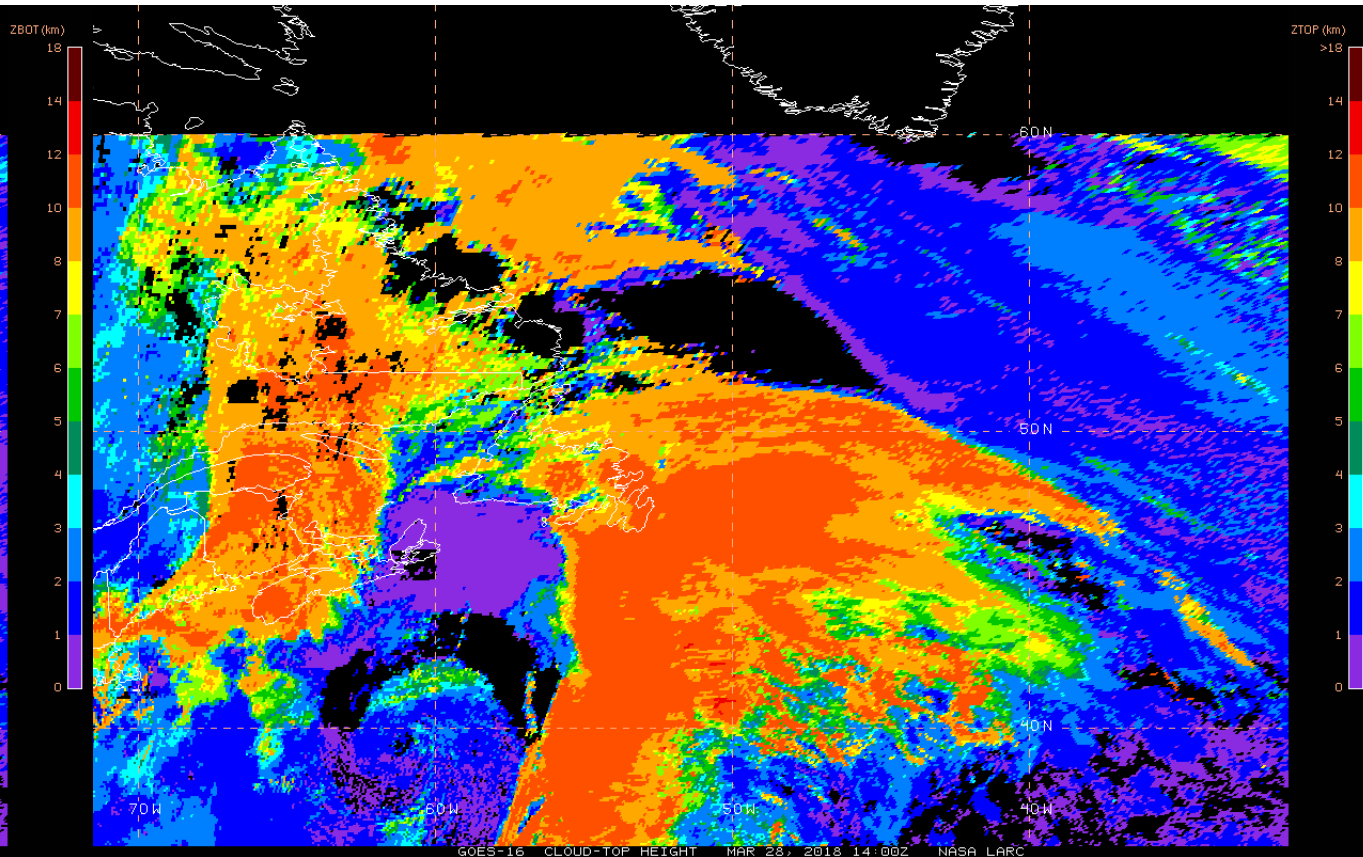
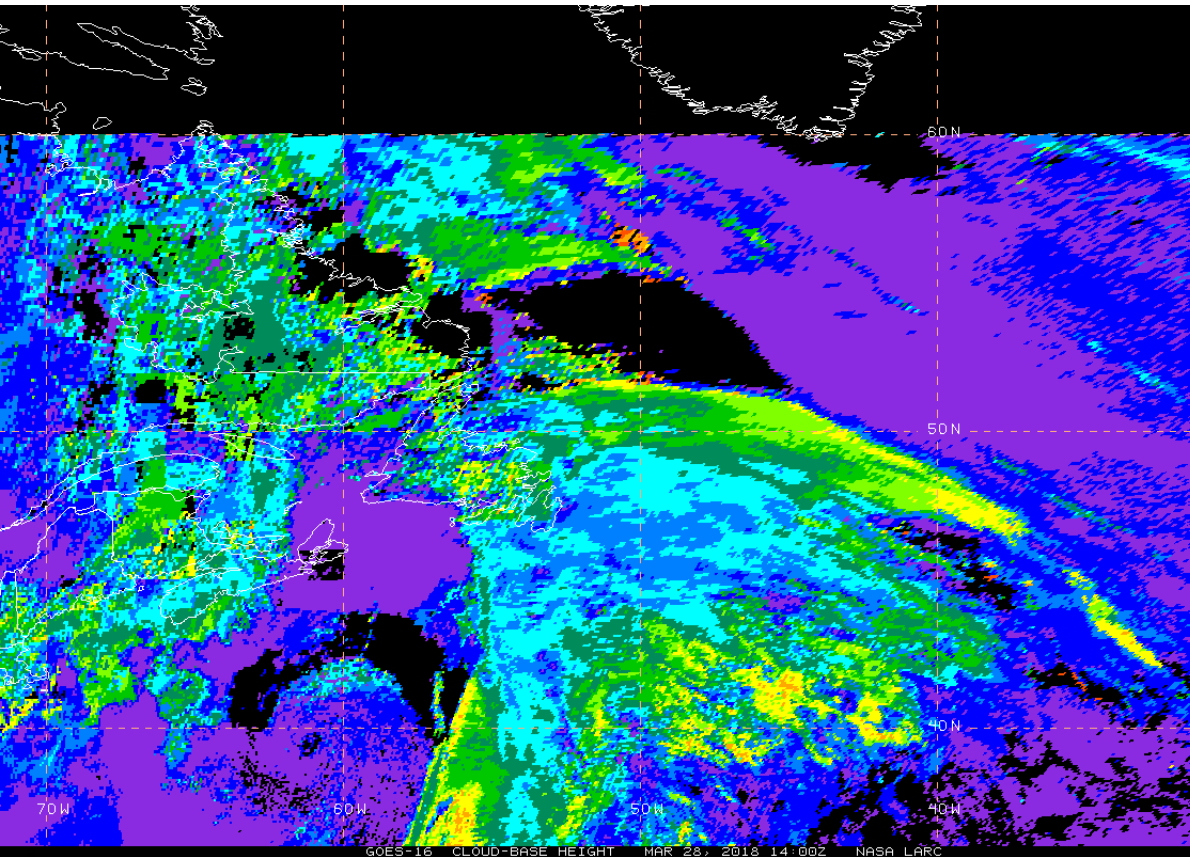
IR



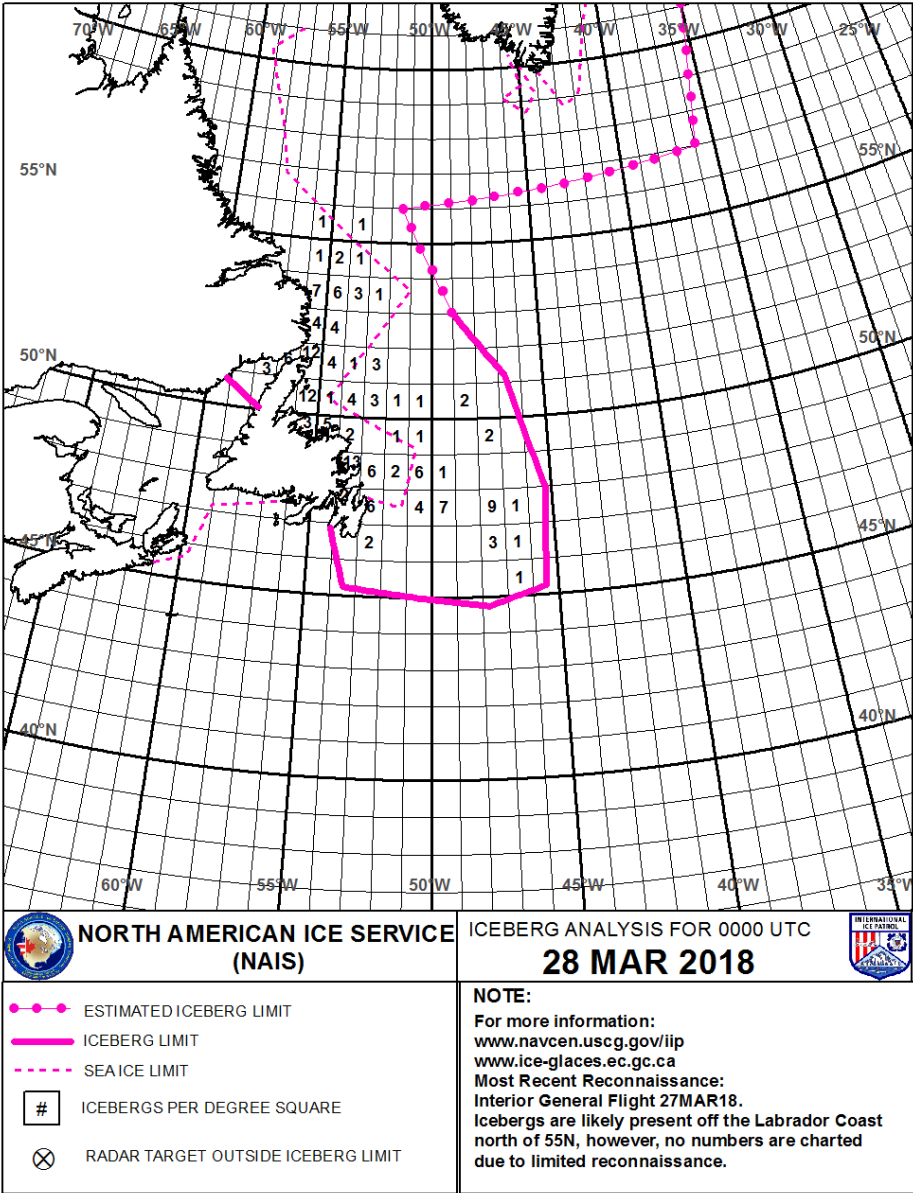
GOES-16 Cloud Products (3/28 14:00 UTC)

Cloud Base Heights

Cloud Top Heights



Sea Ice and Icebergs

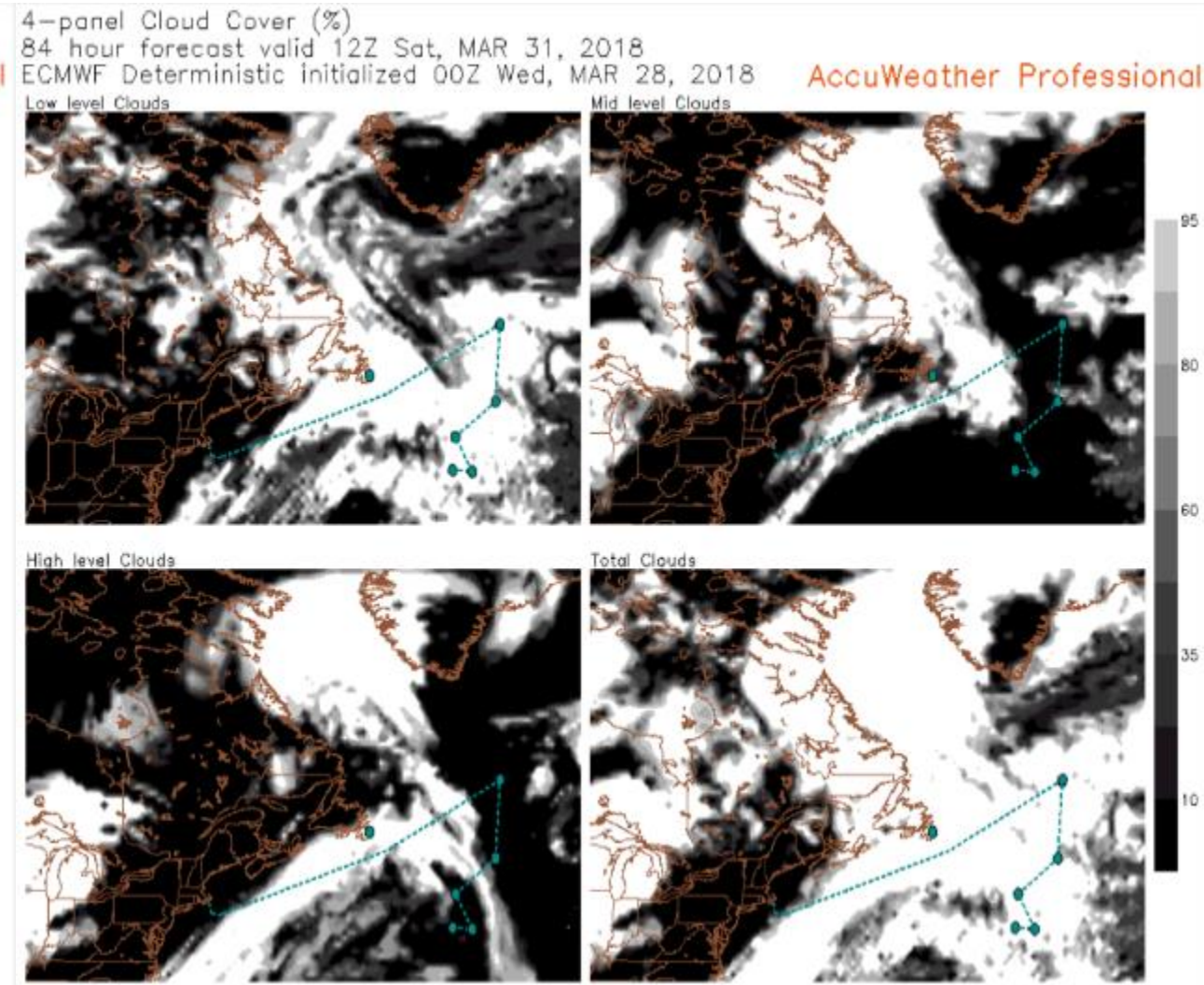
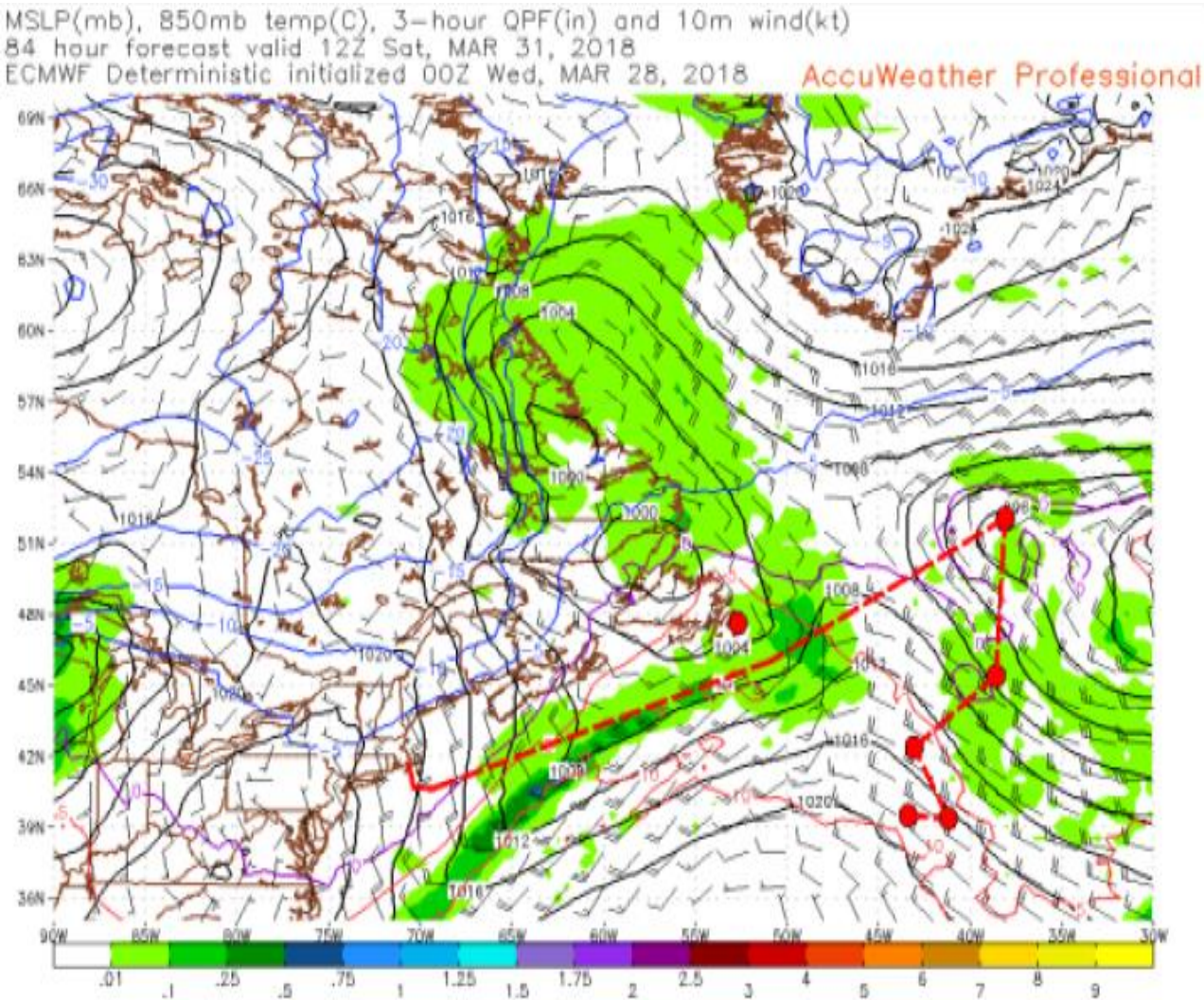


3/31/2018 Flight

LOW

18Z

MID



HIGH

TOTAL

3/31/2018 S4 Flight

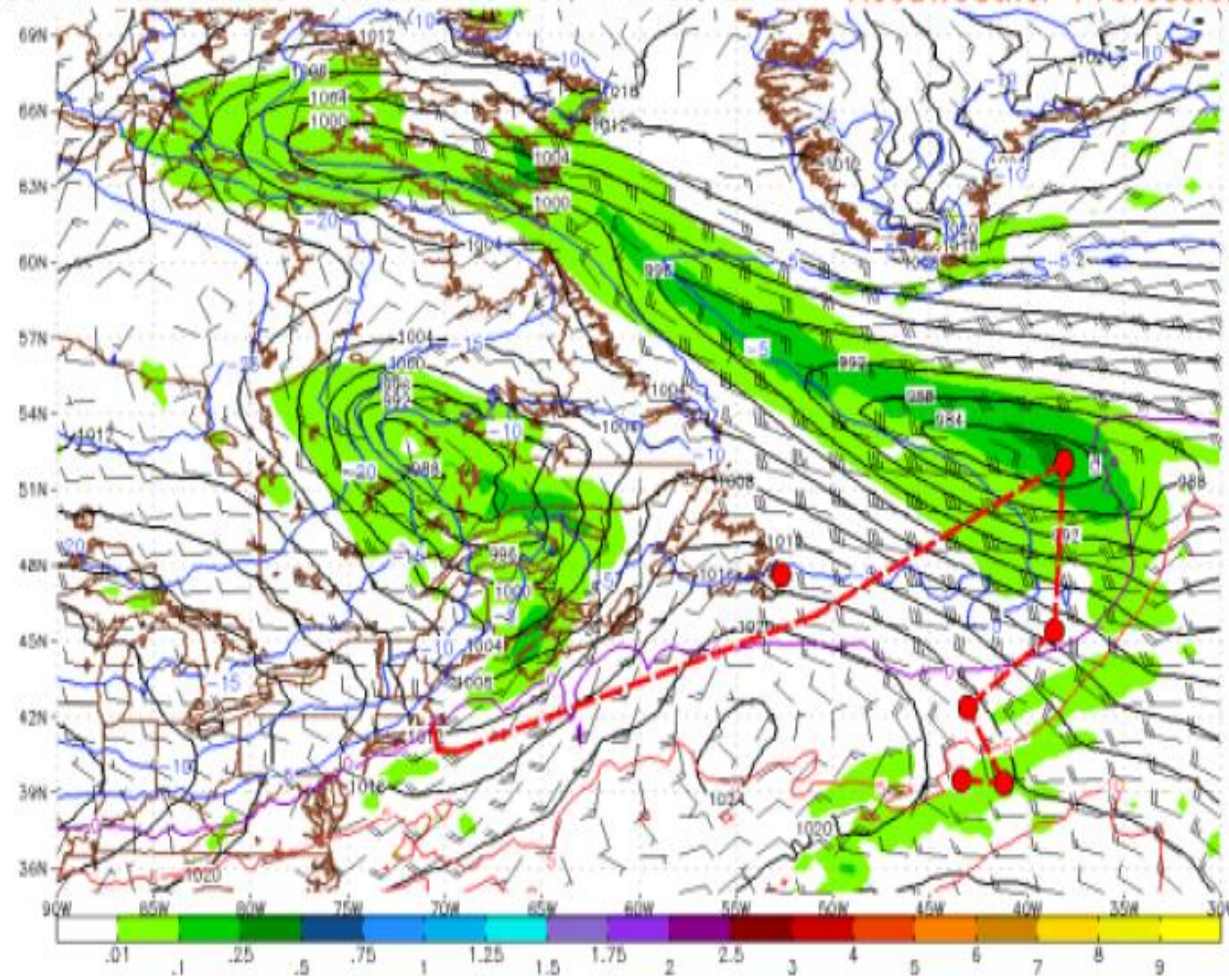
LOW

18Z

MID

MSLP(mb), 850mb temp(C), 3-hour QPF(in) and 10m wind(kt)
114 hour forecast valid 18Z Sun, APR 01, 2018
ECMWF Deterministic initialized 00Z Wed, MAR 28, 2018

AccuWeather Professional



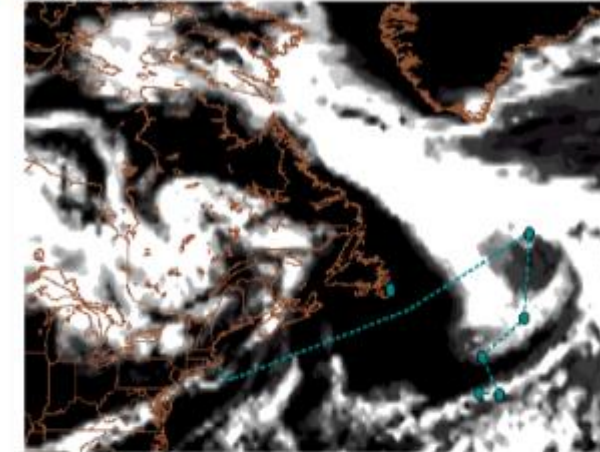
4-panel Cloud Cover (%)

114 hour forecast valid 18Z Sun, APR 01, 2018

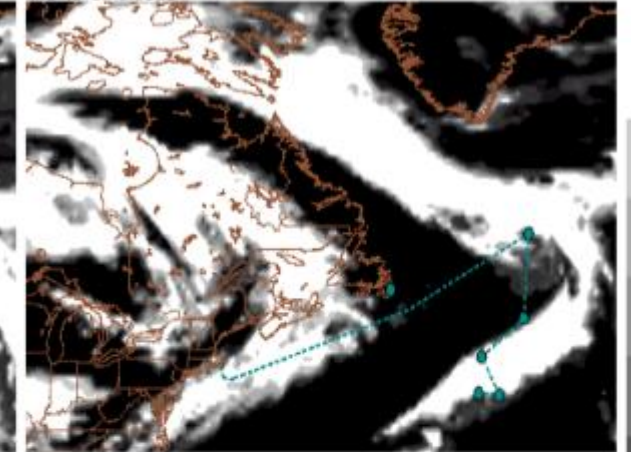
ECMWF Deterministic initialized 00Z Wed, MAR 28, 2018

AccuWeather Professional

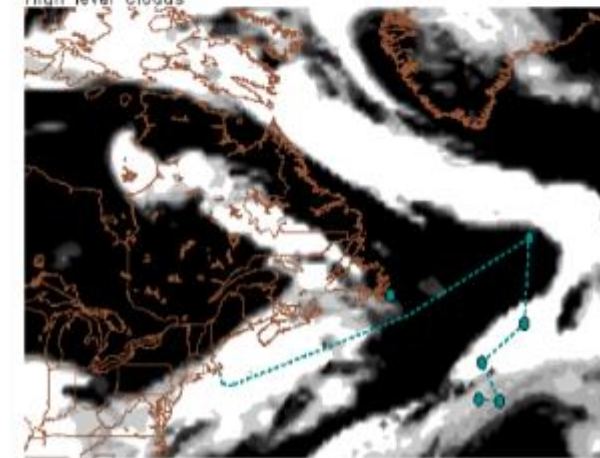
Low level Clouds



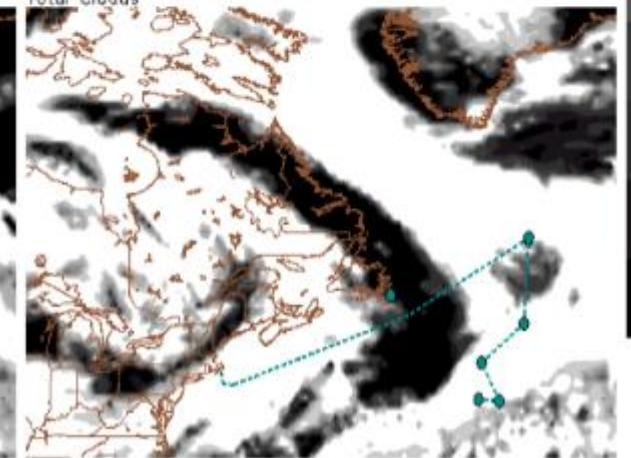
Mid level Clouds



High level Clouds



Total Clouds

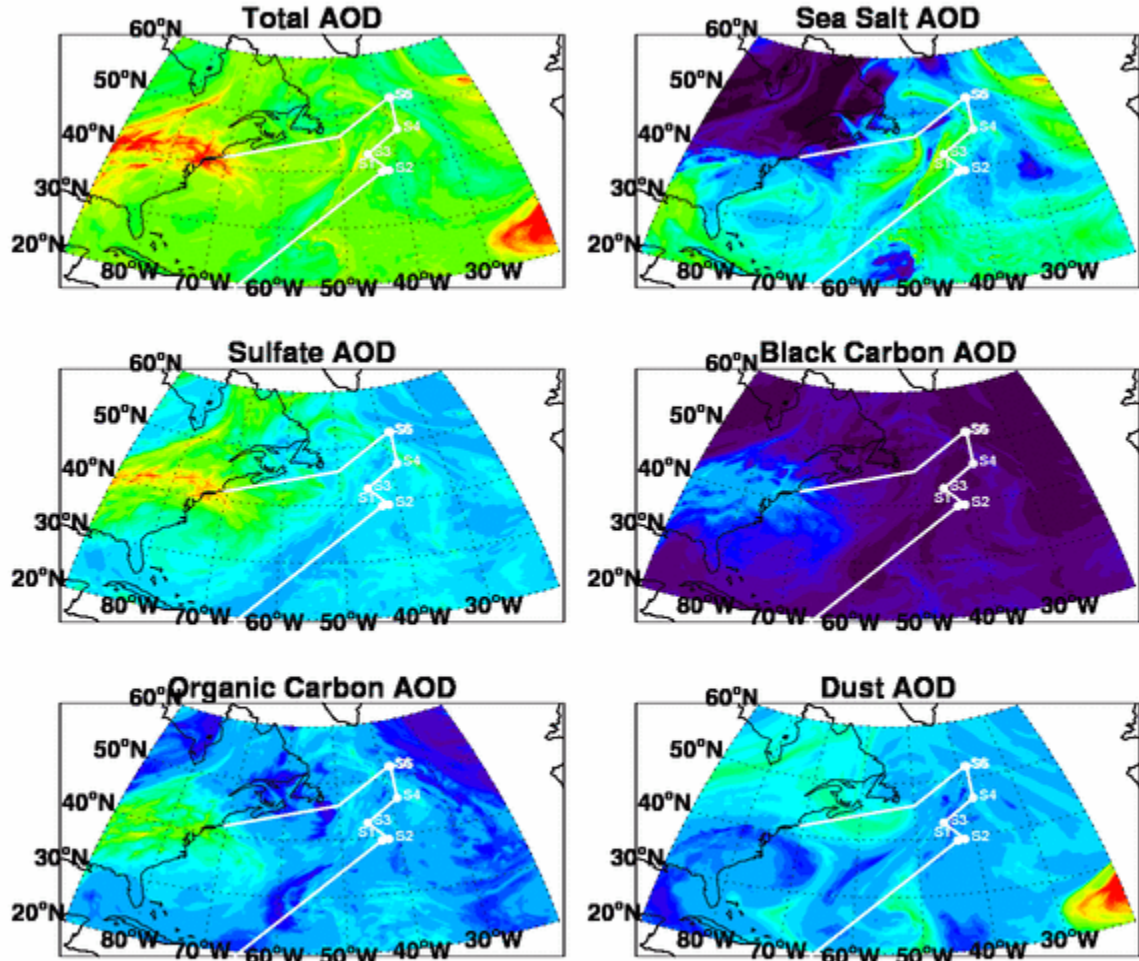


HIGH

TOTAL

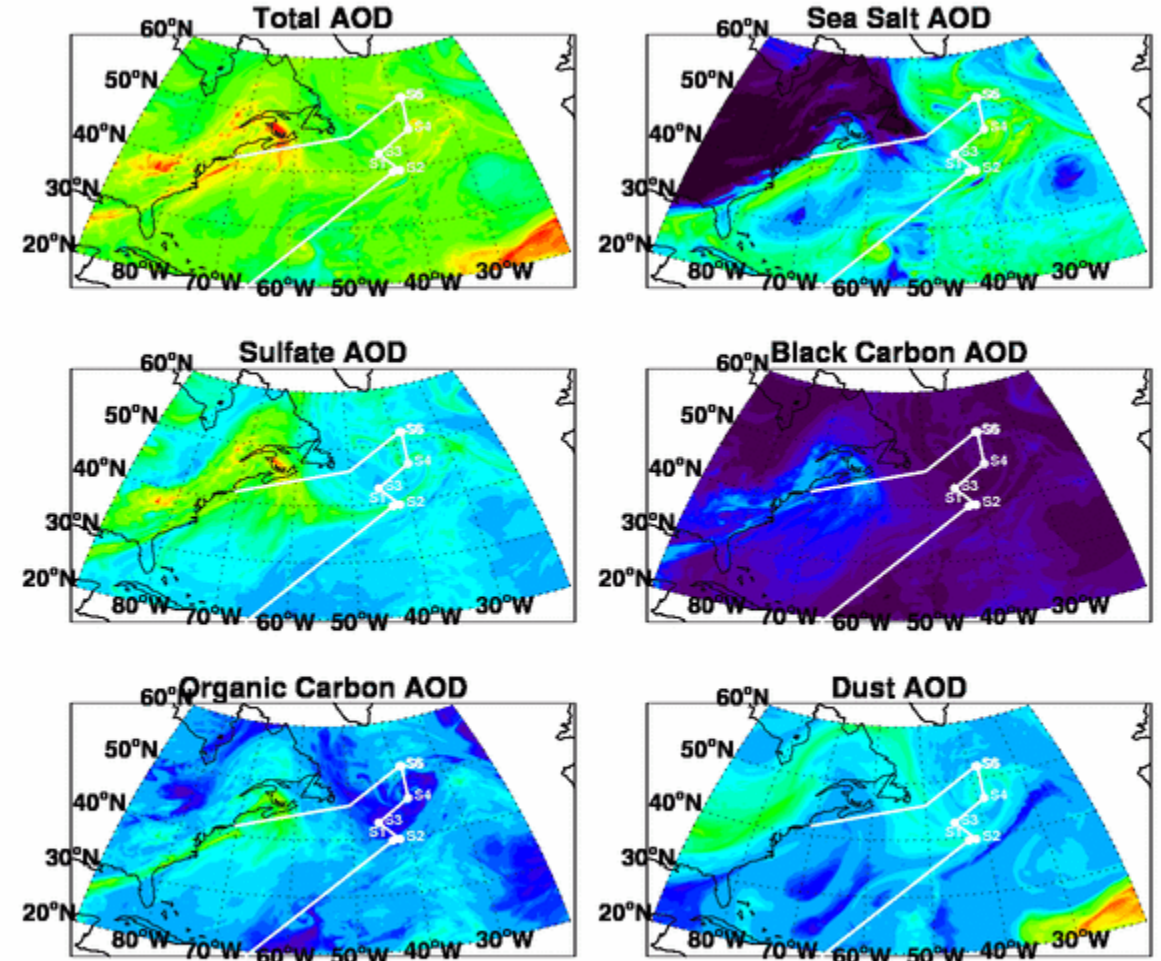
Aerosol Forecast

GEOS-FP Forecast 20180329_1500Z



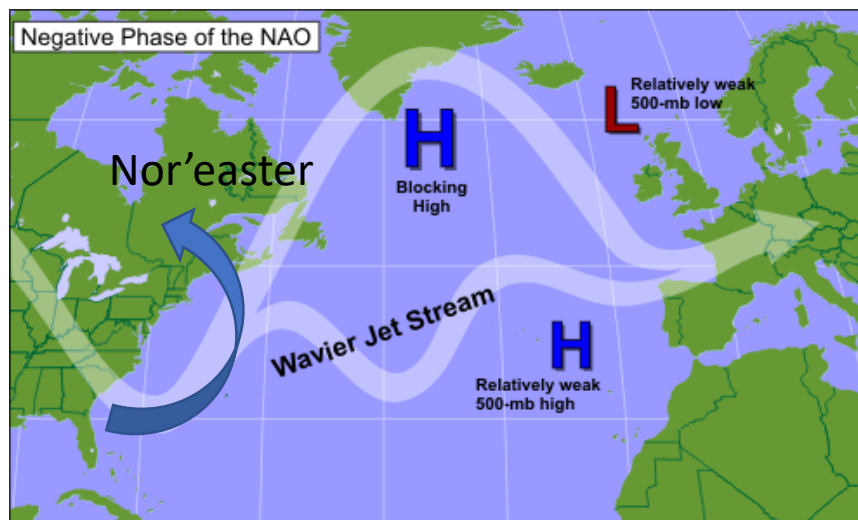
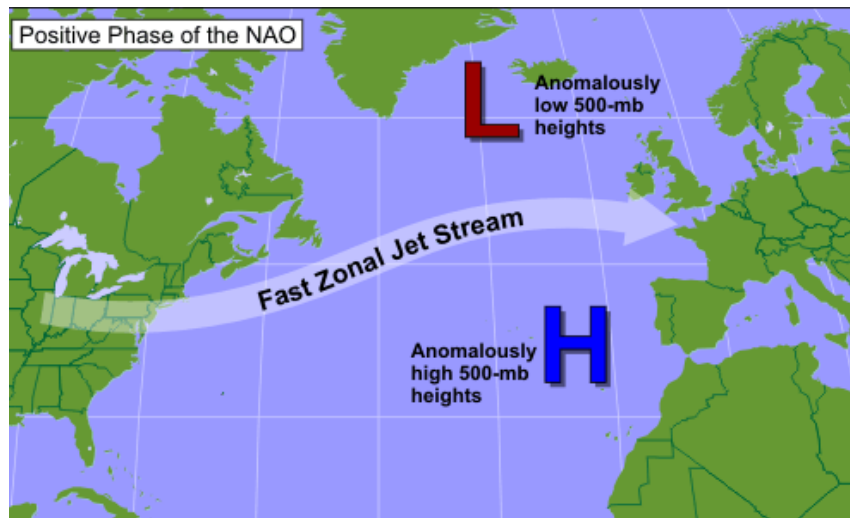
0.000 0.002 0.004 0.006 0.008 0.010 0.030 0.050 0.070 0.090 0.100 0.200 0.300 0.400 0.500 0.600

GEOS-FP Forecast 20180330_1500Z



0.000 0.002 0.004 0.006 0.008 0.010 0.030 0.050 0.070 0.090 0.100 0.200 0.300 0.400 0.500 0.600

Current NAO



NAO: Observed & ENSM forecasts

