

# **NAAMES**

# **WX Briefing**

**Friday, March 30, 2018**

Michael Shook

# Forecast Highlights

Mid-Atlantic ridge erodes by Sunday, bringing much more active conditions over the North Atlantic next week

- **Model agreement:** Models are in decent agreement through Sunday night; after that, they diverge on the behavior of the system that remains in the Labrador, and consecutive runs not consistent
- **Next system:** Moves up the East Coast and NE from Newfoundland over the ship domain Sunday
- **Ship:** Sunday night-Monday morning bad, Tuesday good, Wednesday into Thursday could be bad again
- **St. John's:** Warmer and windy this weekend, cooler next week; snow accumulation possible Wednesday night

# Forecast Summary

Day	St. John's	Ship Location	Ship Weather	Recommendation
Day 1 Saturday 3/31	AM clouds, PM showers Morning low: 34; High: 50 Winds: SW 10-20mph Fog/Low ceiling potential in AM	Transit to/at S4	Waves: W 12-18 ft Winds: WNW 25-35 kts Clouds: Overcast low, partly cloudy (M, H) Precip: Showers likely	Down
Day 2 Sunday 4/1	Mostly sunny and windy Morning low: 29; High: 41 Winds: W 25-35mph	At S4	Waves: W 9-12 ft inc. to 18-21 ft Winds: WNW 10-20 inc. to 25-35 kts Clouds: Overcast (mostly cloudy at all levels) Precip: Light rain likely around midday	?
Day 3 Monday 4/2	Rain in the early AM, partly cloudy and windy in the afternoon. Morning low: 36; High: 39 Winds: WSW 25-35mph	Transit to S5?	Waves: S4 WNW 15-21, Tr. 24-30 ft Winds: S4 WNW 20-35, Tr. 20-45 kts Clouds: Partly cloudy (L, M, H) Precip: Showers possible	?
Day 4 Tuesday 4/3	Increasing clouds and cooler Morning low: 27; High: 35 Winds: WNW 15-25mph	Transit to S5	Waves: Variable 9-12 ft Winds: W 15-25 kts Clouds: PC (L) becoming OVC (all) Precip: Showers possible	?
Day 5 Wednesday 4/4	Increasing clouds, snow overnight Morning low: 25; High: 35 Winds: WNW 10-20mph Overnight accumulation 1-3"	At S5?	Waves: Var. 12-18 bcmg 21-30 ft. Winds: Var. 10-20 kts Clouds: Partly cloudy (L, M) Precip: Showers	?
Day 6 Thursday 4/5	Snow transitioning to rain, then ending Morning low: 29; High: 37 Winds: SE 10-20mph Additional accumulation ~1"	At S5	Waves: E 20-30 ft Winds: NE 10-20 kts Clouds: Partly cloudy (L) Precip: Showers possible in the morning	?

# Planned Ship Route & Forecast

## Tuesday, 4/3

Waves: Variable 9-12 ft  
Winds: W 15-25 kts  
Clouds: PC (L) becoming OVC (all)  
Precip: Showers possible

## Sunday, 4/1

Waves: W 9-12 ft **inc. to 18-21 ft**  
Winds: WNW 10-20 **inc. to 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)

## Thursday, 4/5

Waves: E 20-30 ft  
Winds: NE 10-20 kts  
Clouds: Partly cloudy (L)  
Precip: Showers possible in the morning

## Wednesday, 4/4

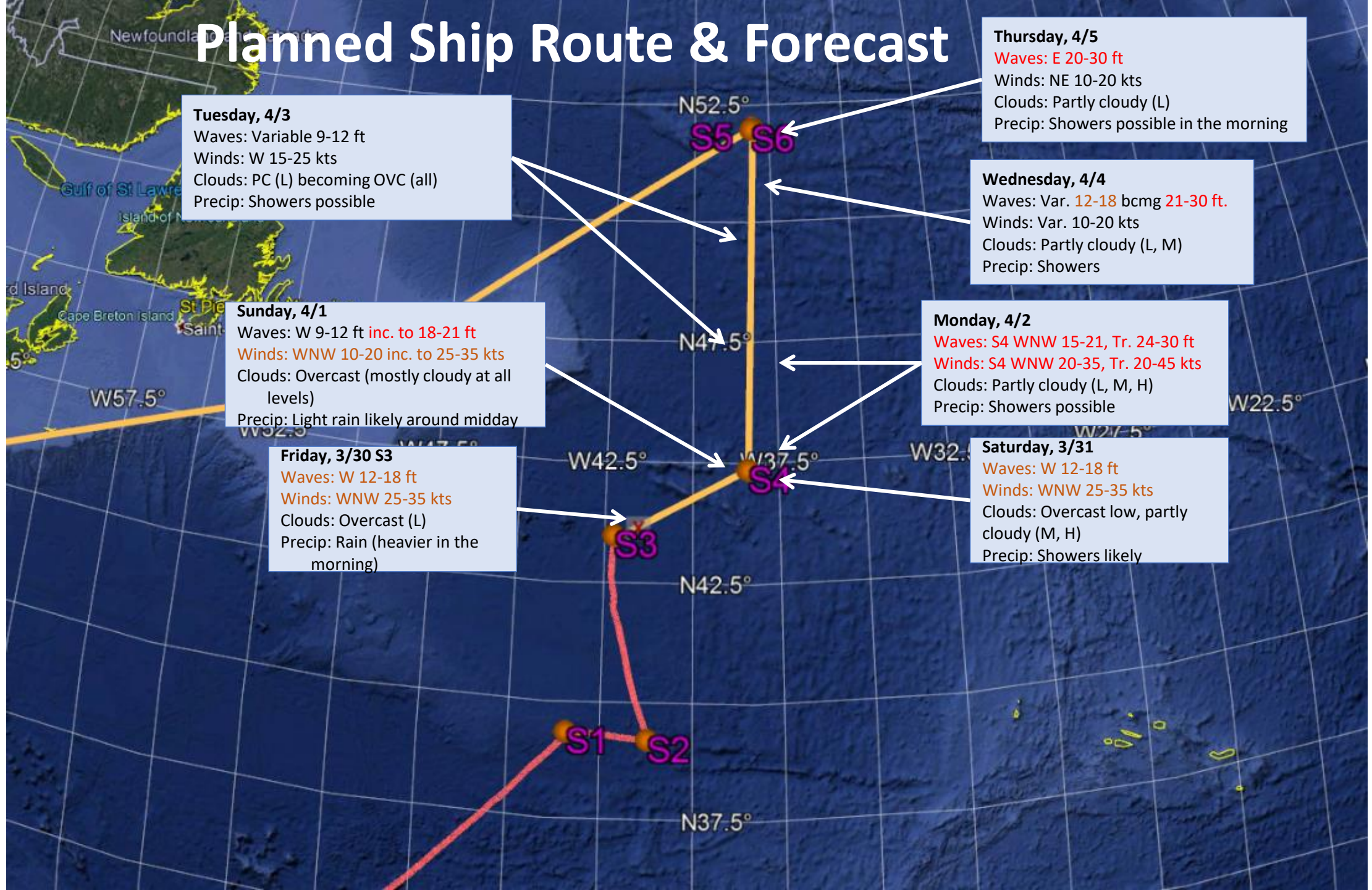
Waves: Var. **12-18 bcmg 21-30 ft.**  
Winds: Var. 10-20 kts  
Clouds: Partly cloudy (L, M)  
Precip: Showers

## Monday, 4/2

Waves: S4 WNW 15-21, Tr. 24-30 ft  
Winds: S4 WNW 20-35, Tr. 20-45 kts  
Clouds: Partly cloudy (L, M, H)  
Precip: Showers possible

## Saturday, 3/31

Waves: W 12-18 ft  
Winds: WNW 25-35 kts  
Clouds: Overcast low, partly cloudy (M, H)  
Precip: Showers likely

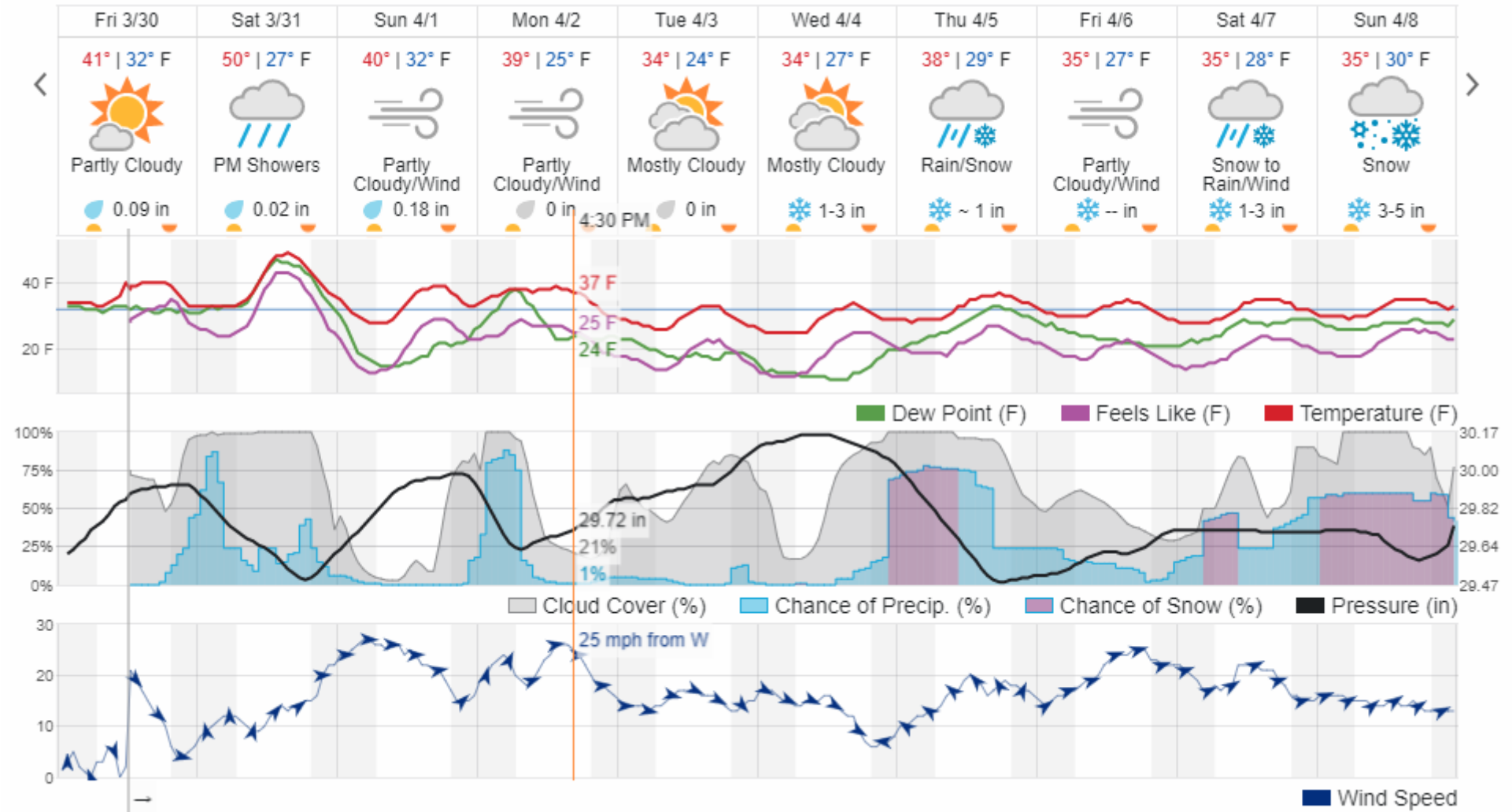


# Current Conditions at St. John's

METAR CYYT 301300Z 33018G26KT 15SM BKN023 BKN120 02/00 A2987 RMK SC5AC1 SLP123=		
METAR	LOCATION CYYT - ST. JOHN'S INTL/NL	DATE - TIME 30 MARCH 2018 - 1300 UTC
WIND 330 TRUE @ 18 KNOTS GUSTS 26 KNOTS	VISIBILITY 15 STAT. MILES	RUNWAY VISUAL RANGE
WEATHER	CLOUDINESS BROKEN CLOUDS (5/8 - 7/8) 2300 FT BROKEN CLOUDS (5/8 - 7/8) 12000 FT	TEMP / DEWPOINT 2 C / 0 C
ALTIMETER 29.87 IN HG	RECENT WEATHER	WIND SHEAR



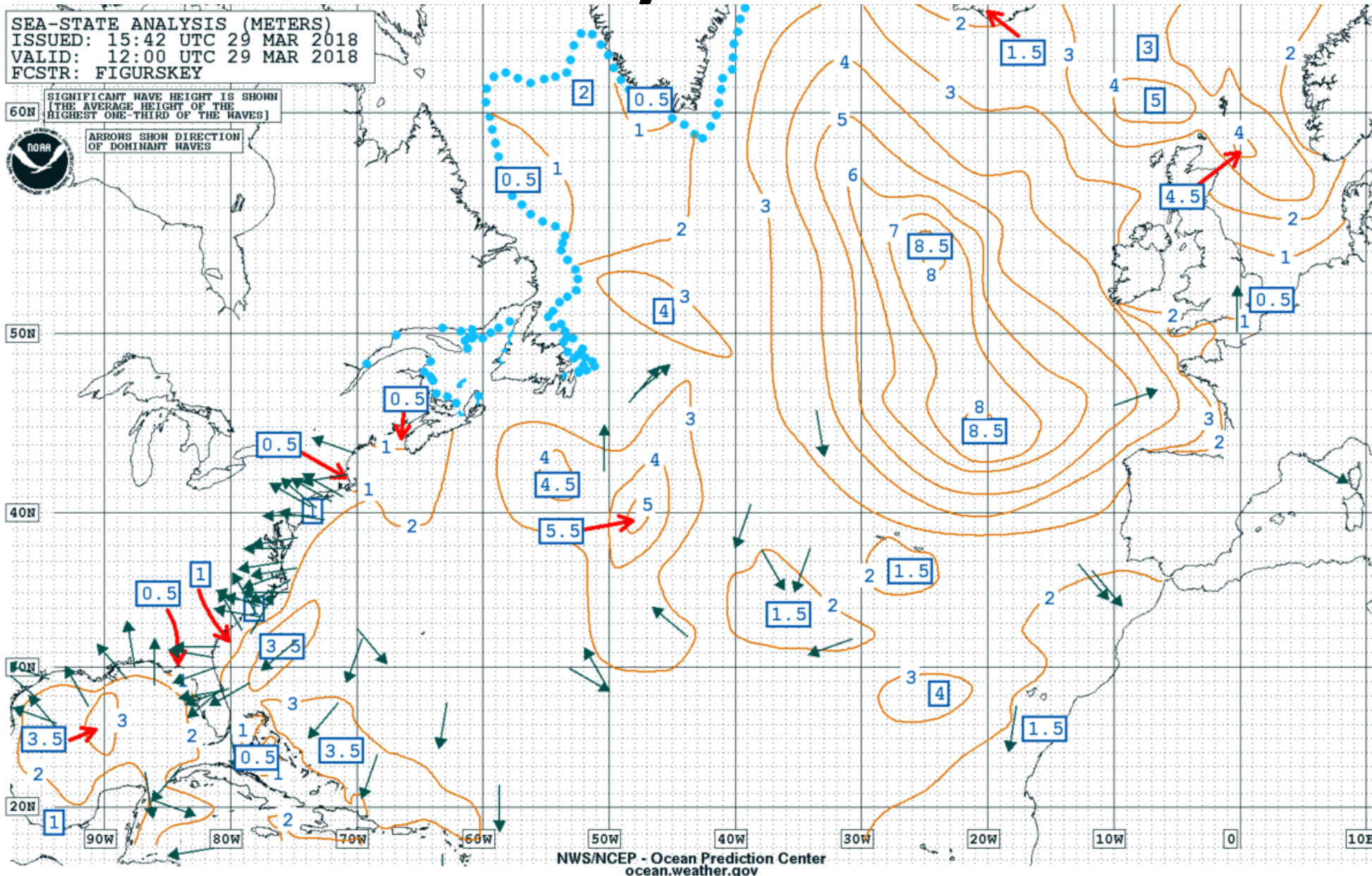
# St. John's Forecast



# St. John's TAF

TAF CYYT 301138Z 3012/3112 32015G25KT P6SM OVC012 TEMPO 3012/3014 5SM -DZ BR OVC008 FM301400 32012G22KT P6SM BKN015 TEMPO 3014/3021 BKN025 FM302100 31012KT P6SM BKN015 BKN180 BECMG 3021/3023 VRB03KT FM310300 17010KT 4SM -RA BR OVC006 FM310700 18015KT 1SM -RA BR OVC003 RMK NXT FCST BY 301800Z=				
TAF		LOCATION		VALIDITY [UTC]
		CYYT - ST. JOHN'S INTL/NL		30 MAR - 1138 to 31 MAR - 1200
TIMES [UTC]	WIND [DEGREES TRUE]	VISIBILITY [STAT. MILES]	WEATHER	CLOUDINESS [FEET AGL]
30 MAR - 1200 to 30 MAR - 1400	320 @ 15 KNOTS GUSTS 25 KNOTS	6+	NIL	1200 OVERCAST
TEMPORARY CHANGES 30 MAR - 1200 to 30 MAR - 1400		5	LIGHT DRIZZLE MIST	800 OVERCAST
30 MAR - 1400 to 30 MAR - 2100	320 @ 12 KNOTS GUSTS 22 KNOTS	6+	NIL	1500 BROKEN
TEMPORARY CHANGES 30 MAR - 1400 to 30 MAR - 2100				2500 BROKEN
30 MAR - 2100 to 31 MAR - 0300	310 @ 12 KNOTS	6+	NIL	1500 BROKEN 18000 BROKEN
BECOMING 30 MAR - 2100 to 30 MAR - 2300	VARIABLE @ 3 KNOTS			
31 MAR - 0300 to 31 MAR - 0700	170 @ 10 KNOTS	4	LIGHT RAIN MIST	600 OVERCAST
31 MAR - 0700 to 31 MAR - 1200	180 @ 15 KNOTS	1	LIGHT RAIN MIST	300 OVERCAST
REMARKS				
THE NEXT FORECAST WILL BE ISSUED BY 1800 UTC ON DAY 30				

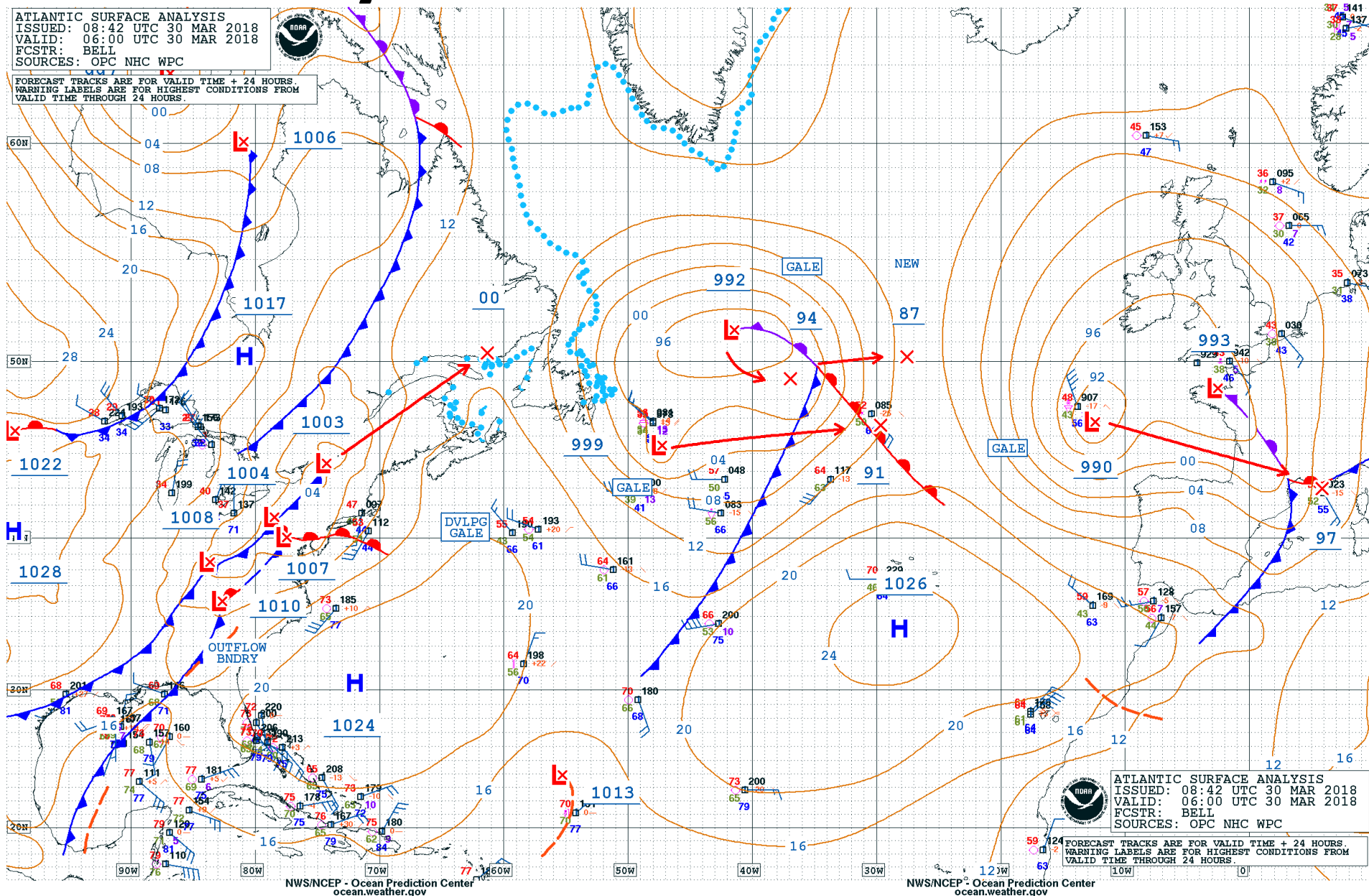
# Sea State Analysis



- 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

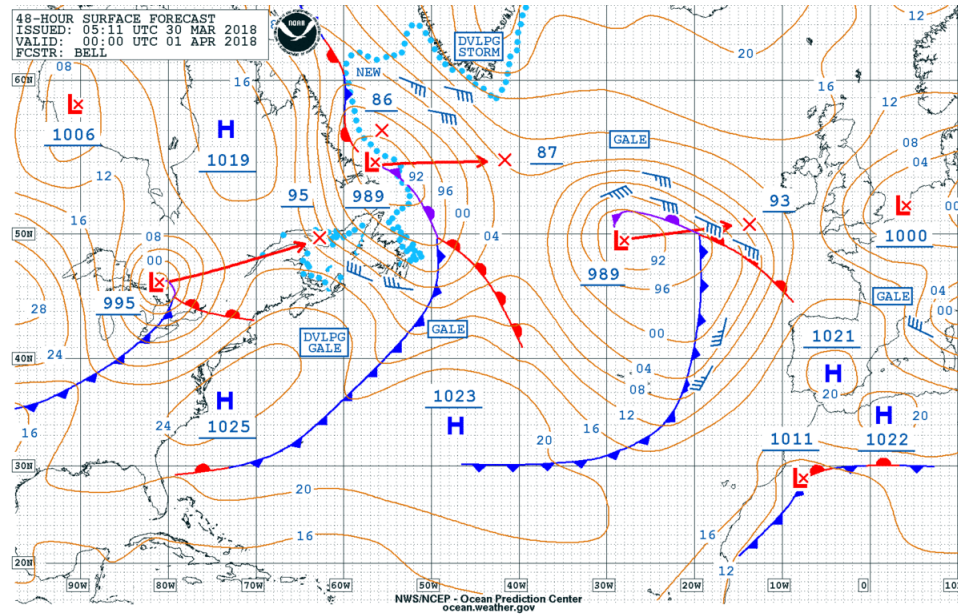


# Surface Analysis

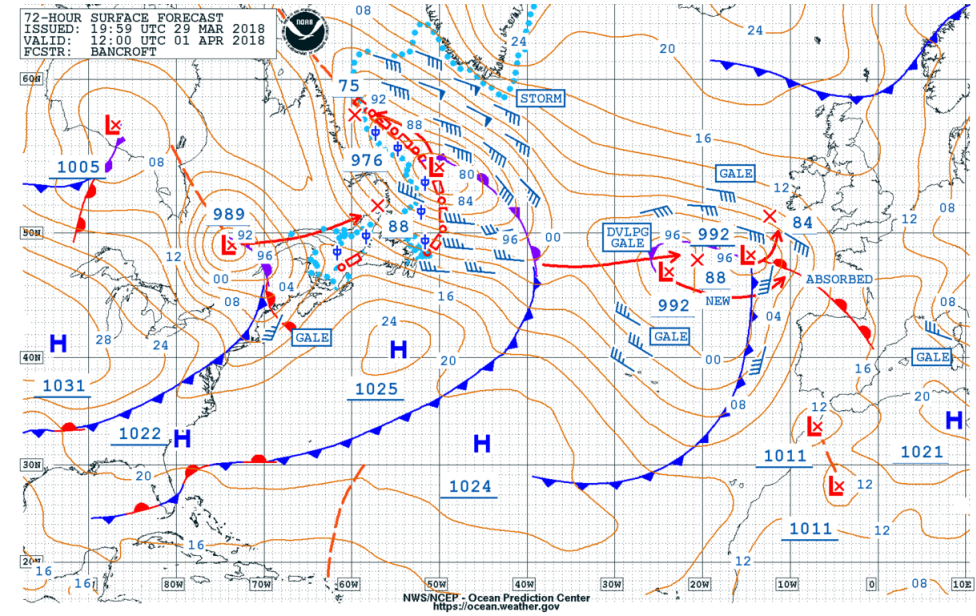


# Synoptic Forecast

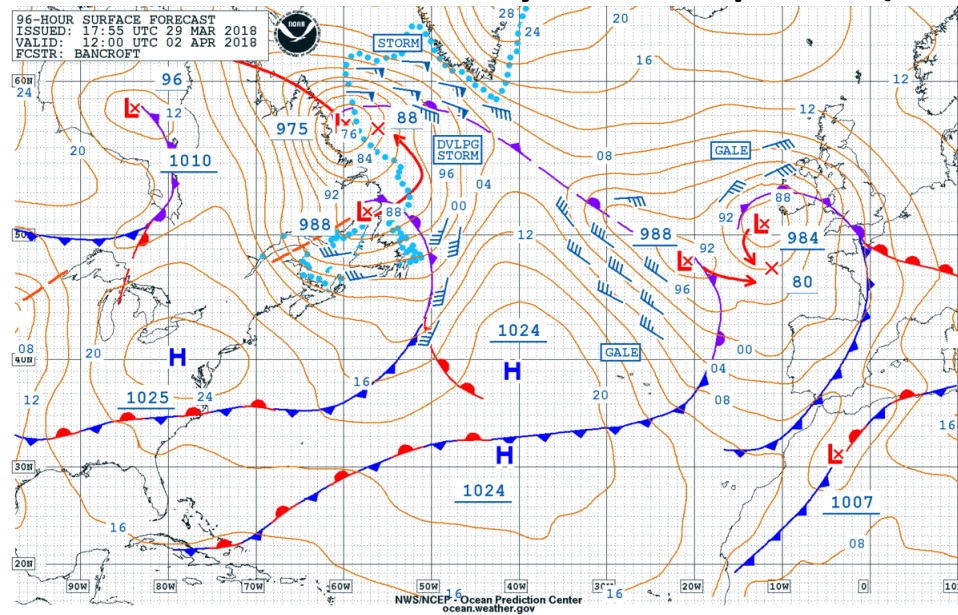
## 48 Hour Forecast - Saturday 10pm Ship Time (UTC-2)



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



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

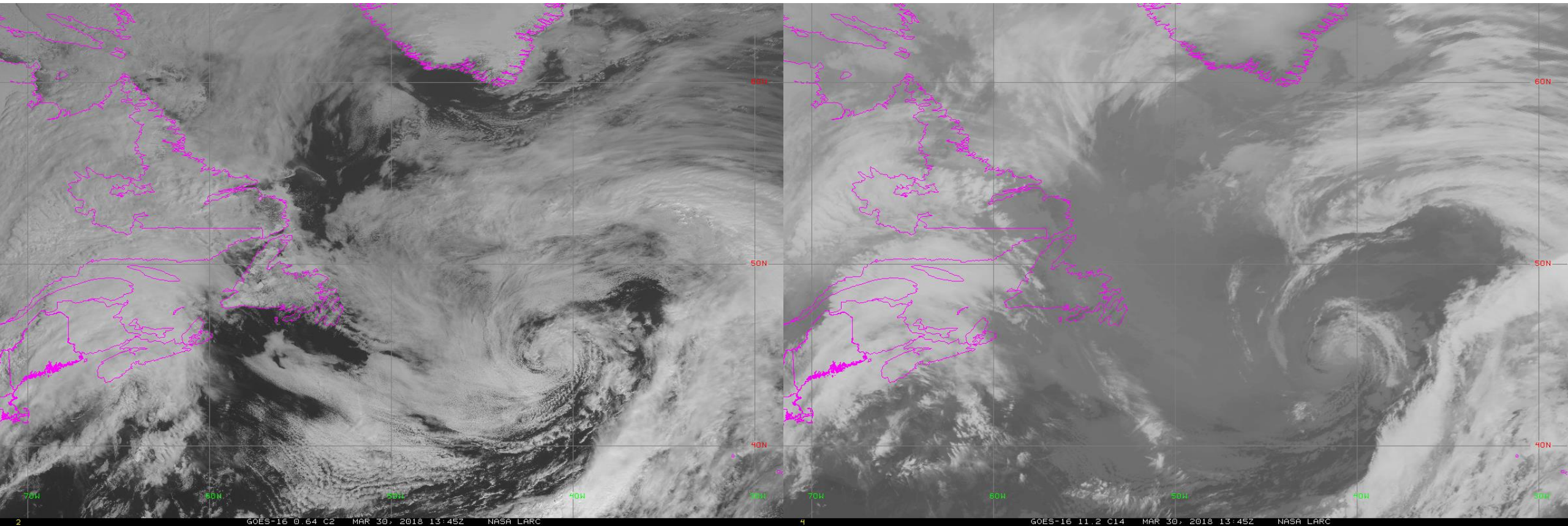




# GOES-16 Imagery (3/30 13:45 UTC)

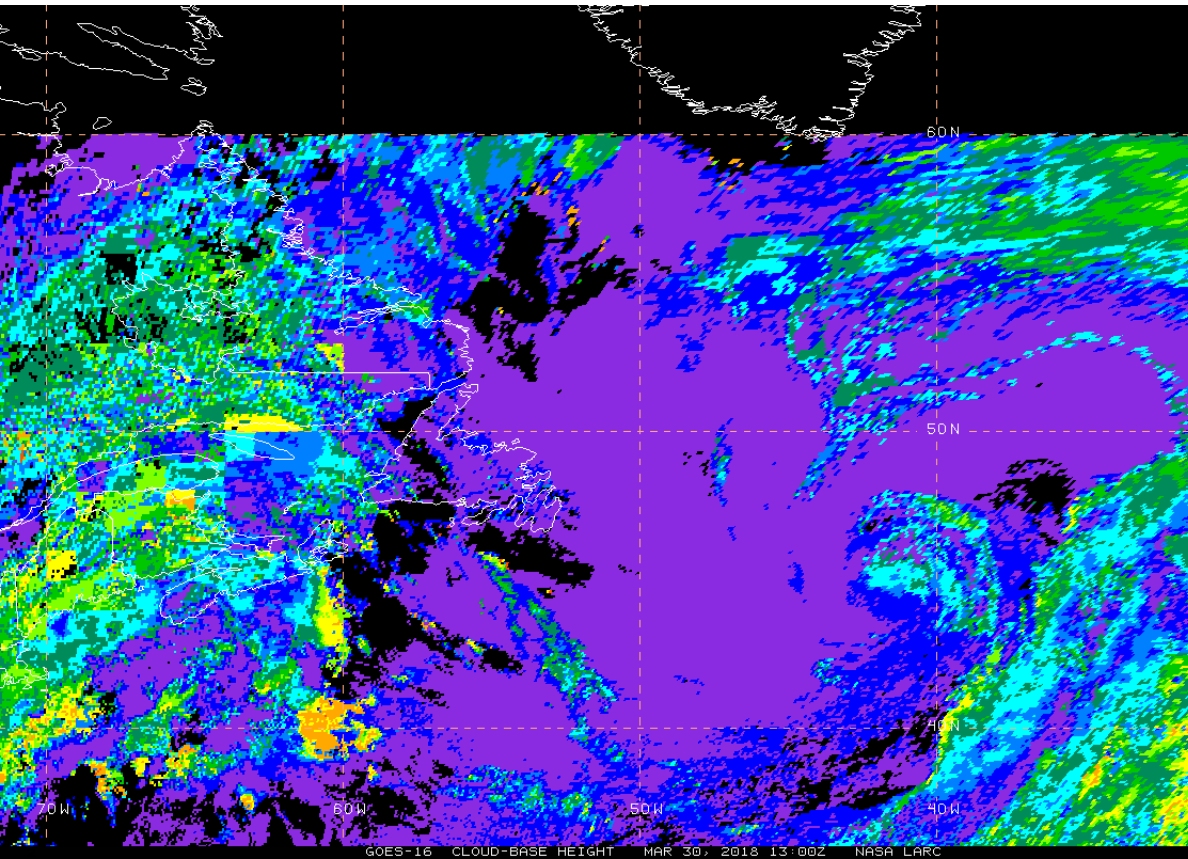
Visible

IR

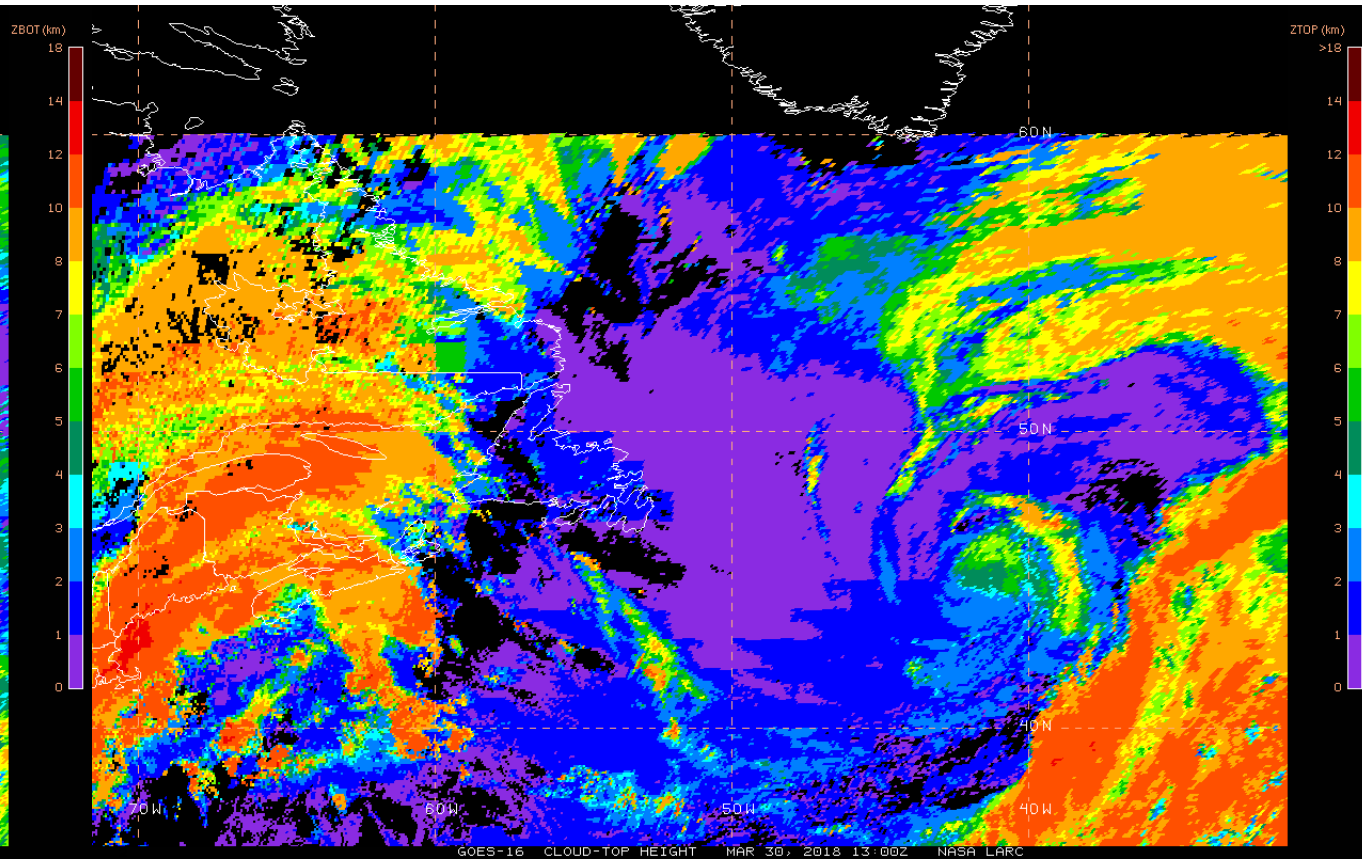


# GOES-16 Cloud Products (3/30 13:00 UTC)

Cloud Base Heights

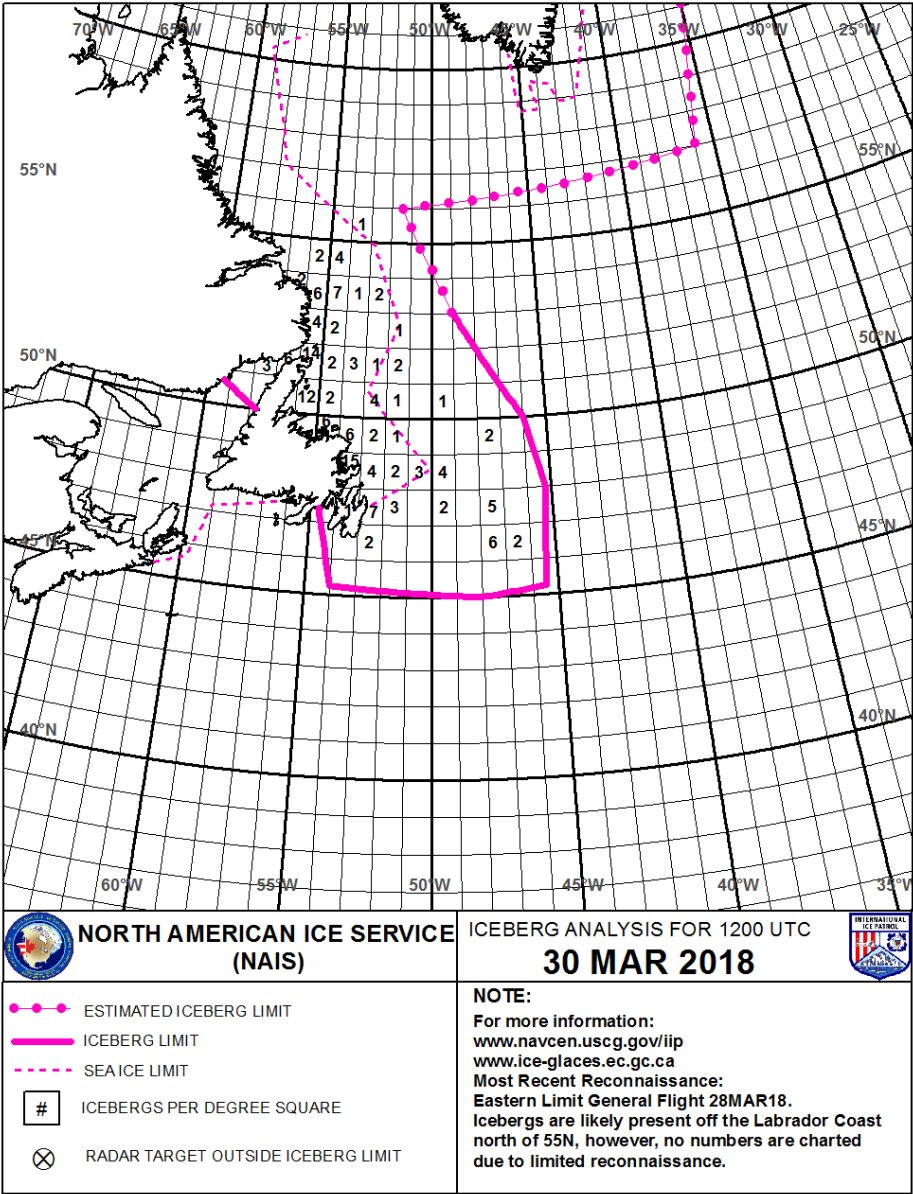


Cloud Top Heights





# Sea Ice and Icebergs



# 4/1/2018 Flight

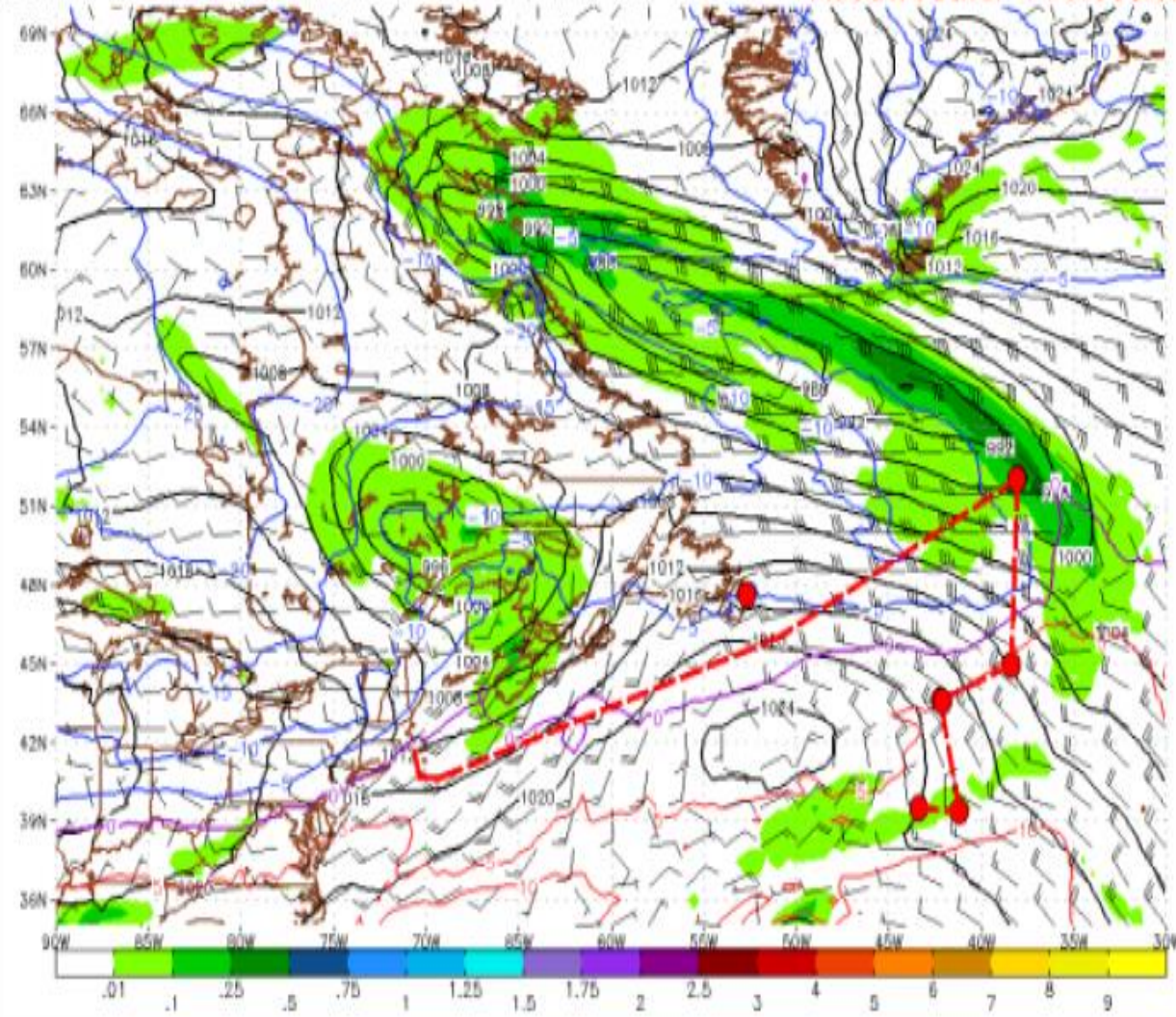
LOW

18Z

MID

MSLP(mb), 850mb temp(C), 3-hour QPF(in) and 10m wind(kt)  
66 hour forecast valid 18Z Sun, APR 01, 2018  
ECMWF Deterministic initialized 00Z Fri, MAR 30, 2018

AccuWeather Professional

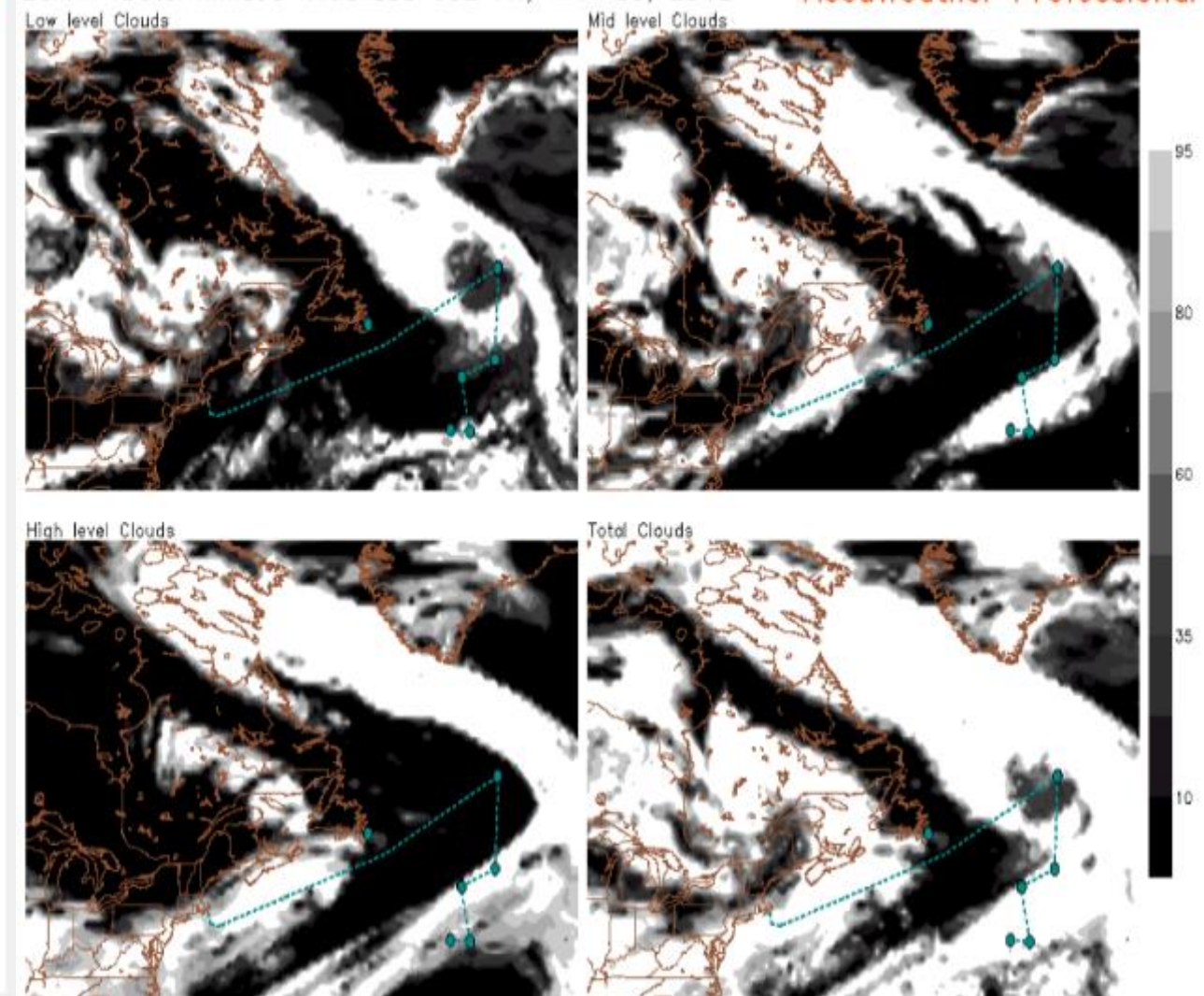


4-panel Cloud Cover (%)

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

ECMWF Deterministic initialized 00Z Fri, MAR 30, 2018

AccuWeather Professional



HIGH

TOTAL



# 4/2/2018 Flight

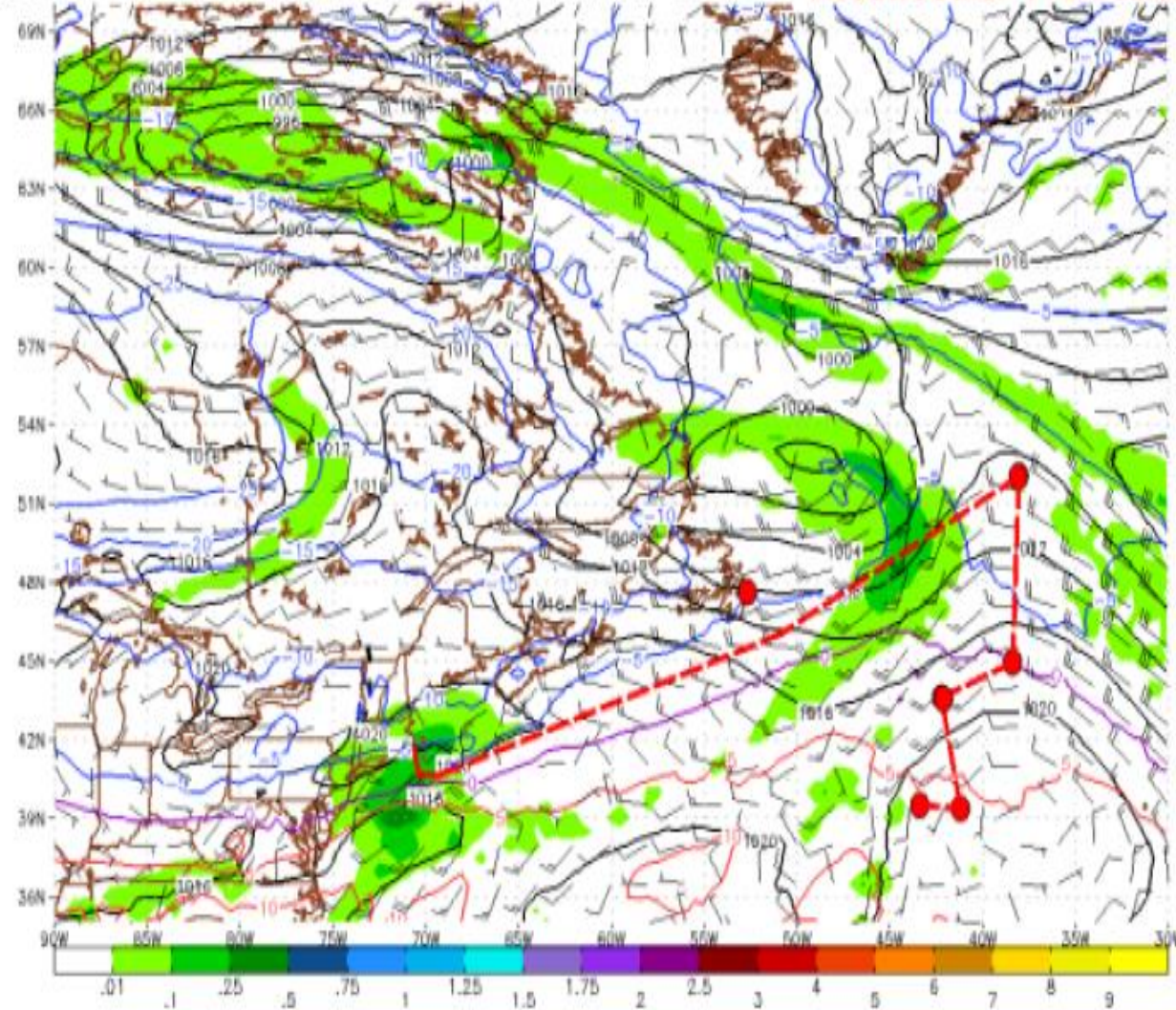
LOW

18Z

MID

MSLP(mb), 850mb temp(C), 3-hour QPF(in) and 10m wind(kt)  
90 hour forecast valid 18Z Mon, APR 02, 2018  
ECMWF Deterministic initialized 00Z Fri, MAR 30, 2018

AccuWeather Professional

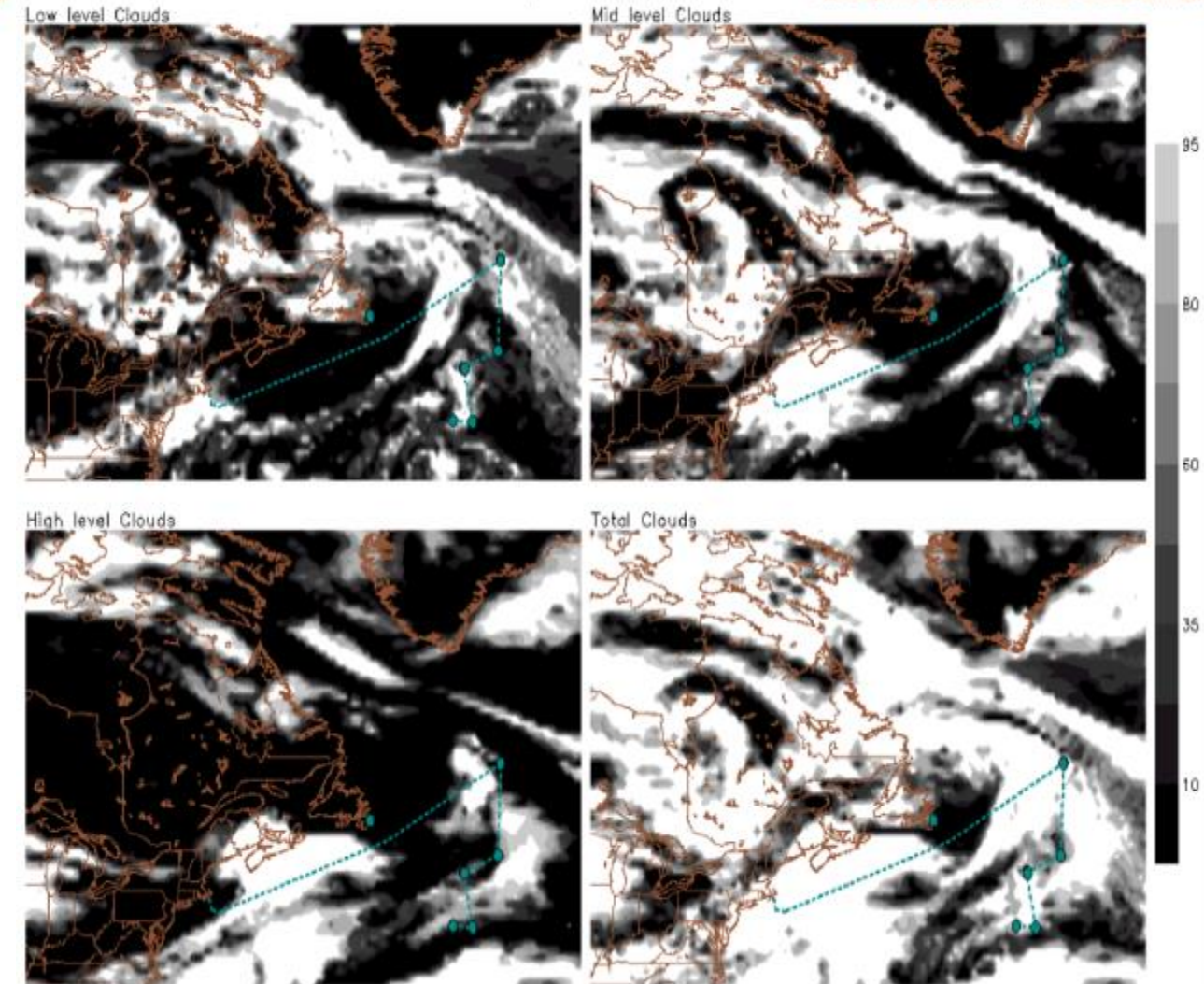


4-panel Cloud Cover (%)

90 hour forecast valid 18Z Mon, APR 02, 2018

ECMWF Deterministic initialized 00Z Fri, MAR 30, 2018

AccuWeather Professional



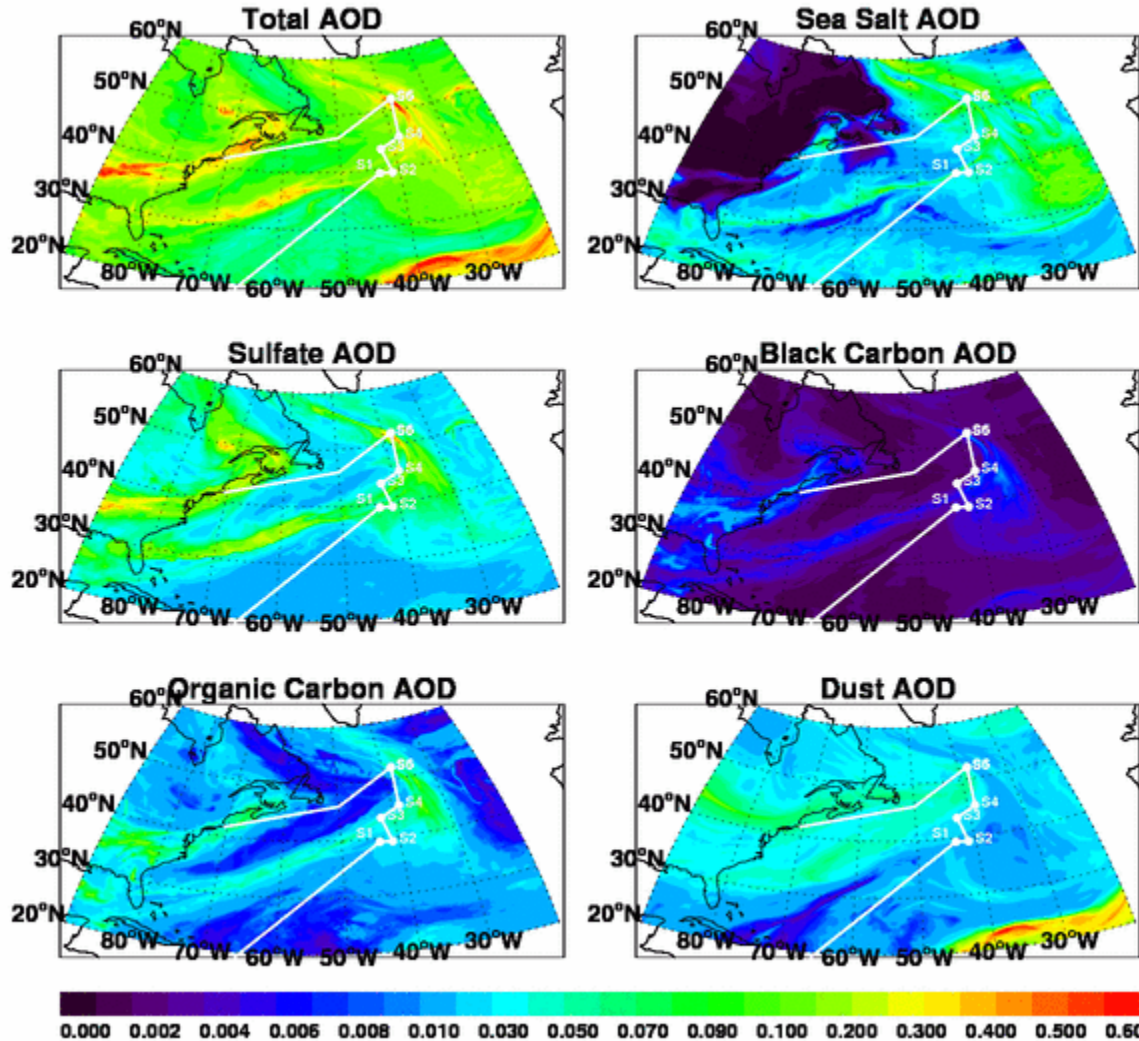
HIGH

TOTAL

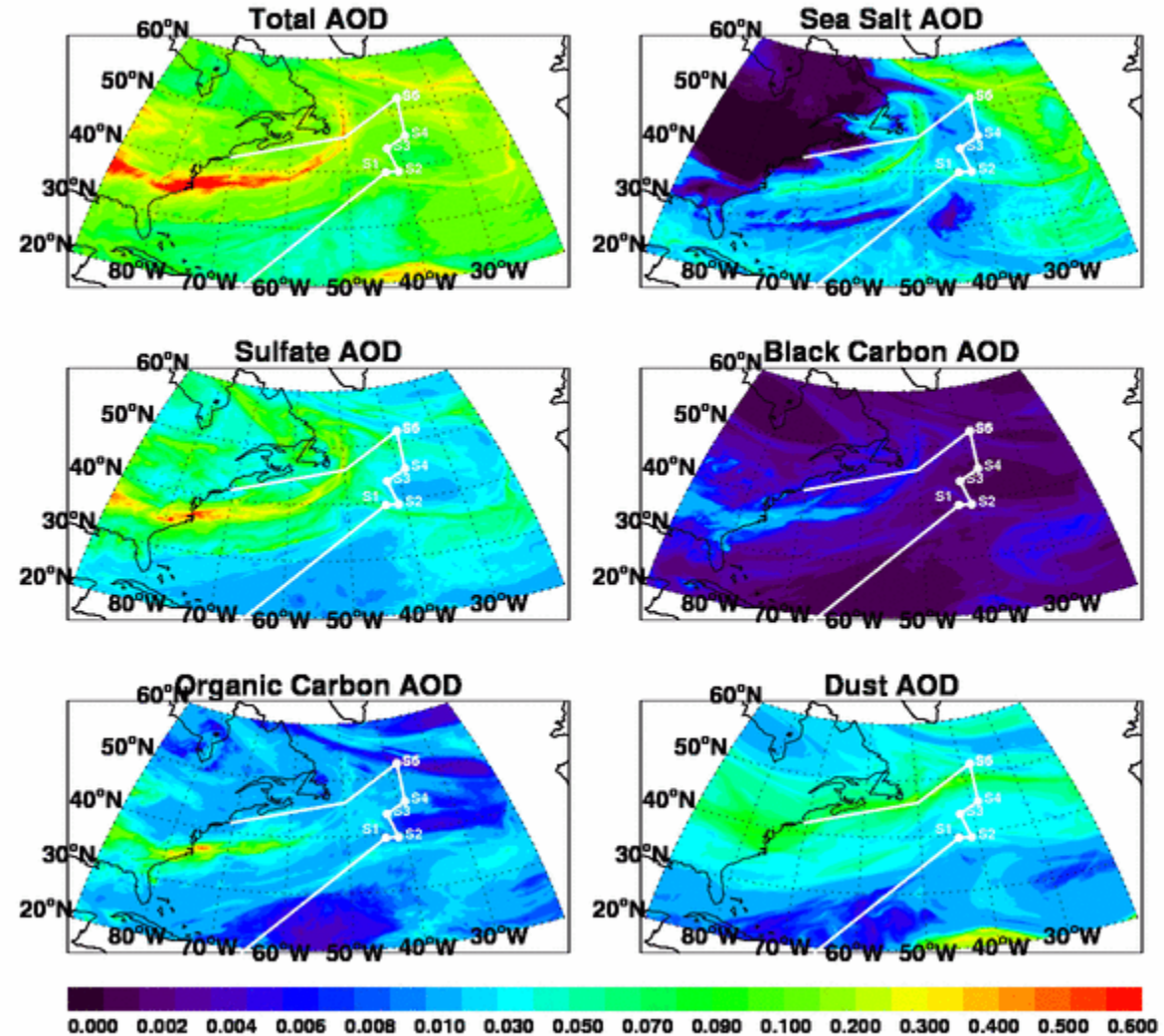


# Aerosol Forecast

GEOS-FP Forecast 20180401\_1500Z

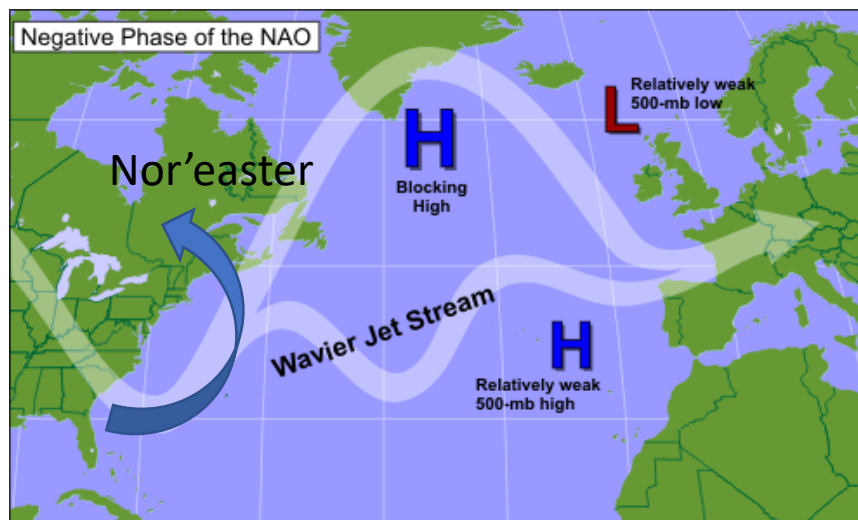
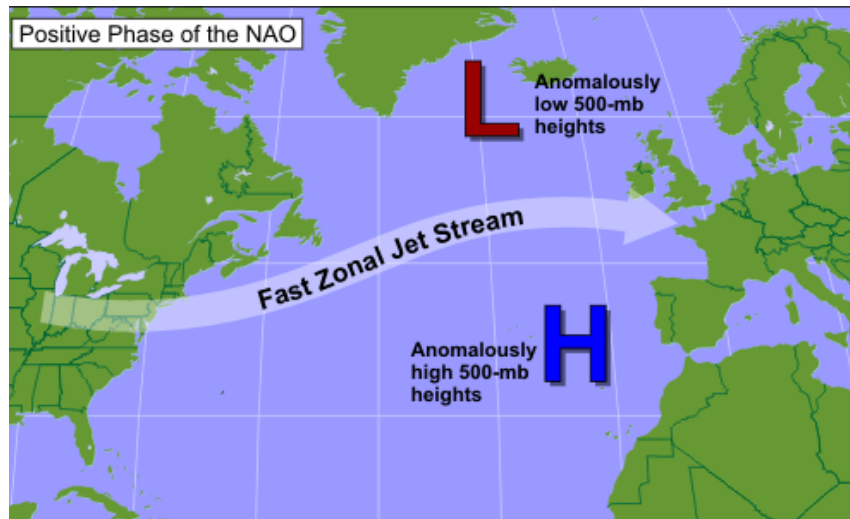


GEOS-FP Forecast 20180402\_1500Z





# Current NAO



## NAO: Observed & ENSM forecasts

