

# **NAAMES**

# **WX Briefing**

**Tuesday, March 27, 2018**

Amy Jo Scarino

# Forecast Highlights

- Atlantis will start to see higher winds & waves starting Thursday through Sunday
- Temperatures Tuesday night into early Wednesday morning will be below freezing (~28F), question is the timing of when the precipitation starts and when the surface temperatures go above freezing
- Every surface will be cold overnight and while the temperatures will slowly rise through the morning to afternoon, icing will be possible in the morning, with switching over to rain midday to afternoon/evening as temperatures reach a high in the mid to upper 30sF
- Visibility and ceiling could be an issue on Wednesday afternoon through early Thursday morning
- Models agree through Friday, no handle yet on system that could affect Atlantis this weekend

# Forecast Summary

## **Day 1 (Wednesday) – March 28 – Ship at S2**

**Recommendation: Science flight to region of S1/S2**

St. John's: Freezing rain, changing to rain. Increasing clouds and decreasing visibility, temps 32 increasing to 38, winds E 15-20 mph

## **Day 2 (Thursday) – March 29 – Ship transit to S3**

**Recommendation: Science flight to ship at S1, however, clouds at all levels**

St. John's: Rain, decreased visibility, temp around 40, winds variable 10-15 mph

## **Day 3 (Friday) – March 30 – Ship at S3 – CALIPSO track through S4**

**Recommendation: Science flight to ship at S3, cloud module/cloud tops, same over CALIPSO track**

St. John's: Partly cloudy, temp around 40, winds NW 12-18 mph

## **Day 4 (Saturday) – March 31– Ship in transit to S4**

**Recommendation: Down day**

St. John's: Overcast and rain, high 42, winds SW 10-15 mph

## **Day 5 (Sunday) – April 1 – Ship at S4**

**Recommendation: Science flight to ship at S4, sea state at ship will be rough, clouds at all levels**

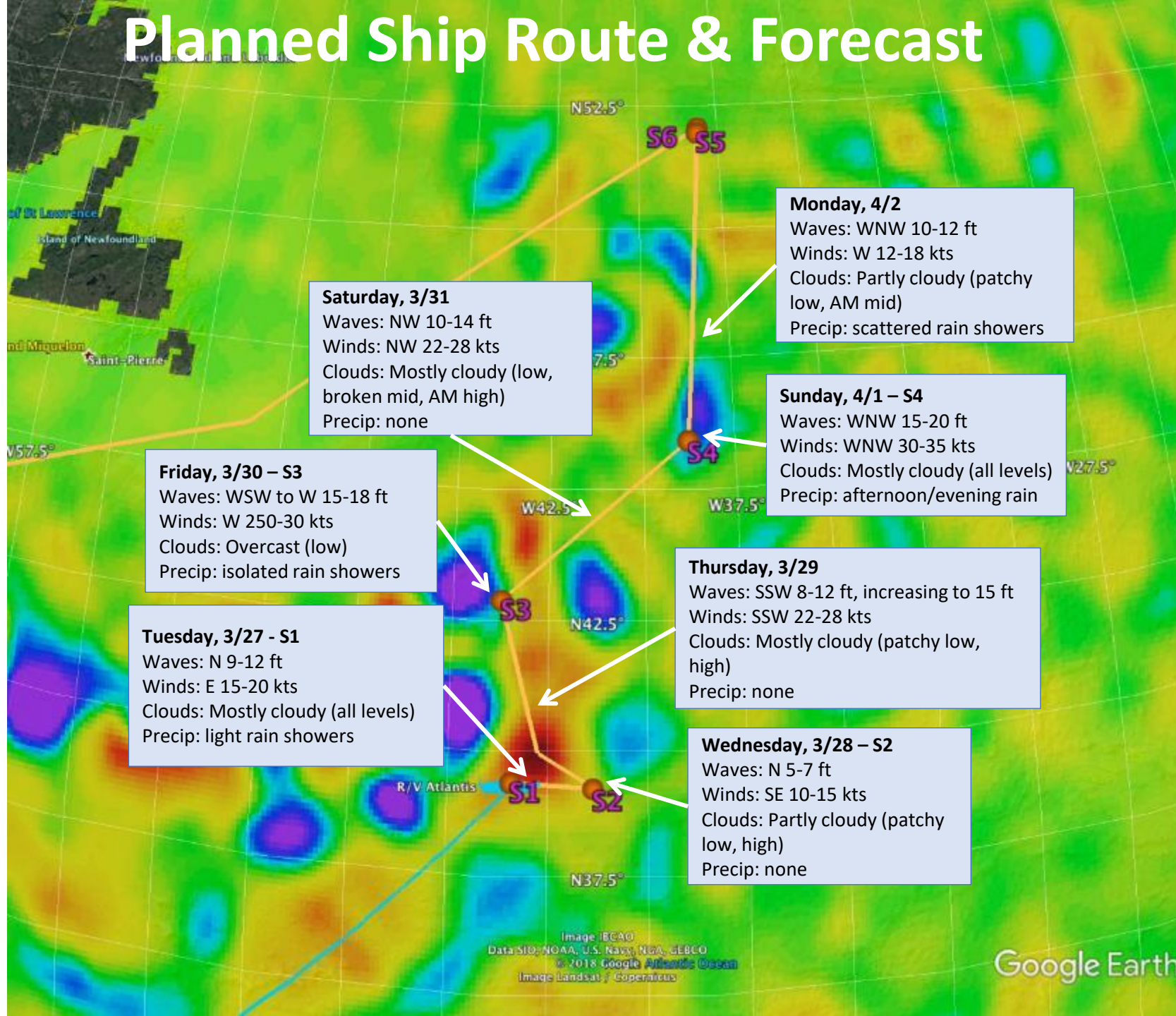
St. John's: Mostly sunny, high 39, winds W 15 mph

## **Day 6 (Monday) – April 2 – Ship in transit to S4 – AM & PM CALIPSO tracks through domain**

**Recommendation: Consider flying CALIPSO track in north part of domain**

St. John's: Decreasing clouds, high 42, winds SW 15-20 mph

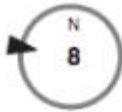
# Planned Ship Route & Forecast



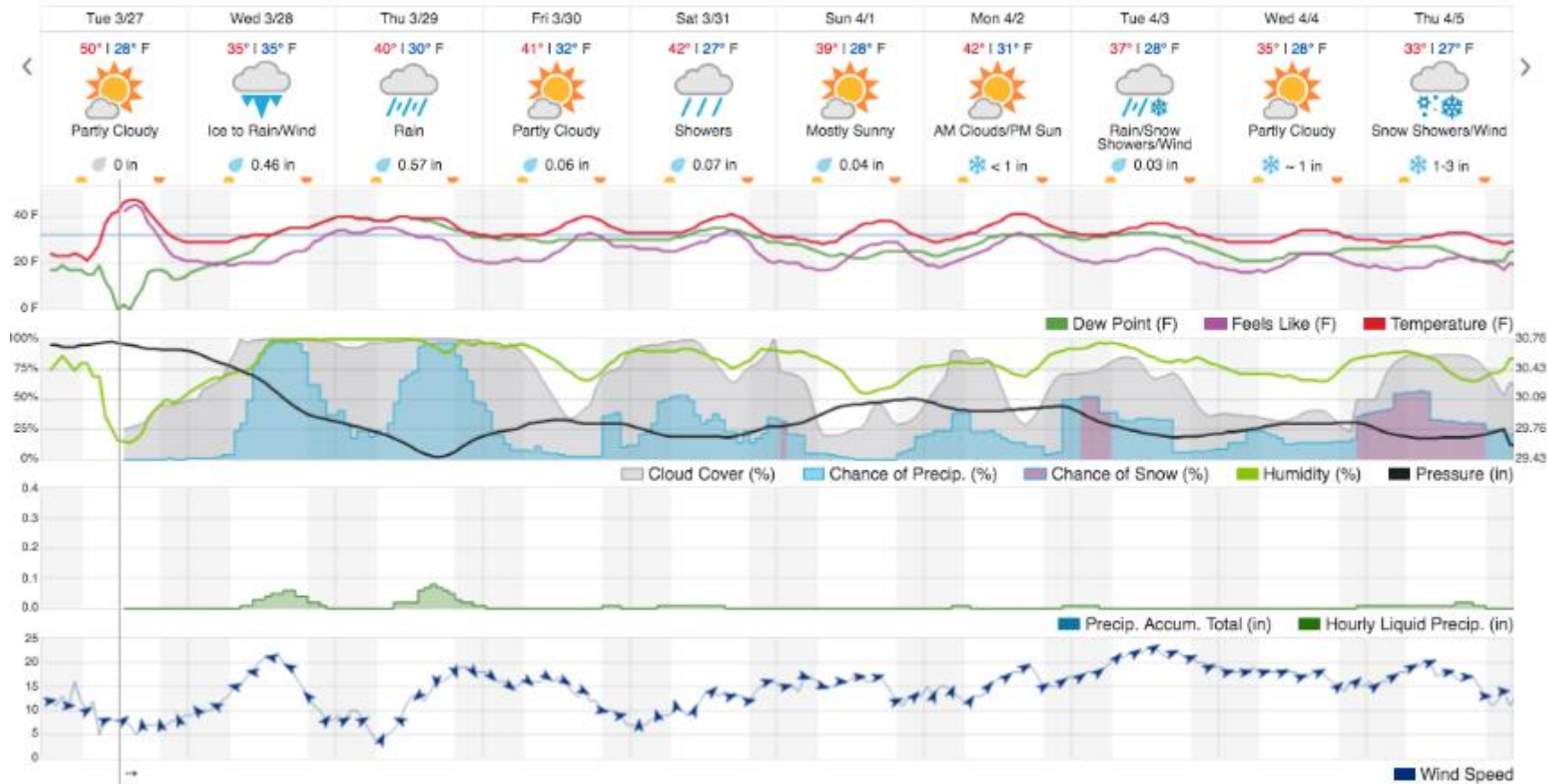
# St. John's - Current & Forecast



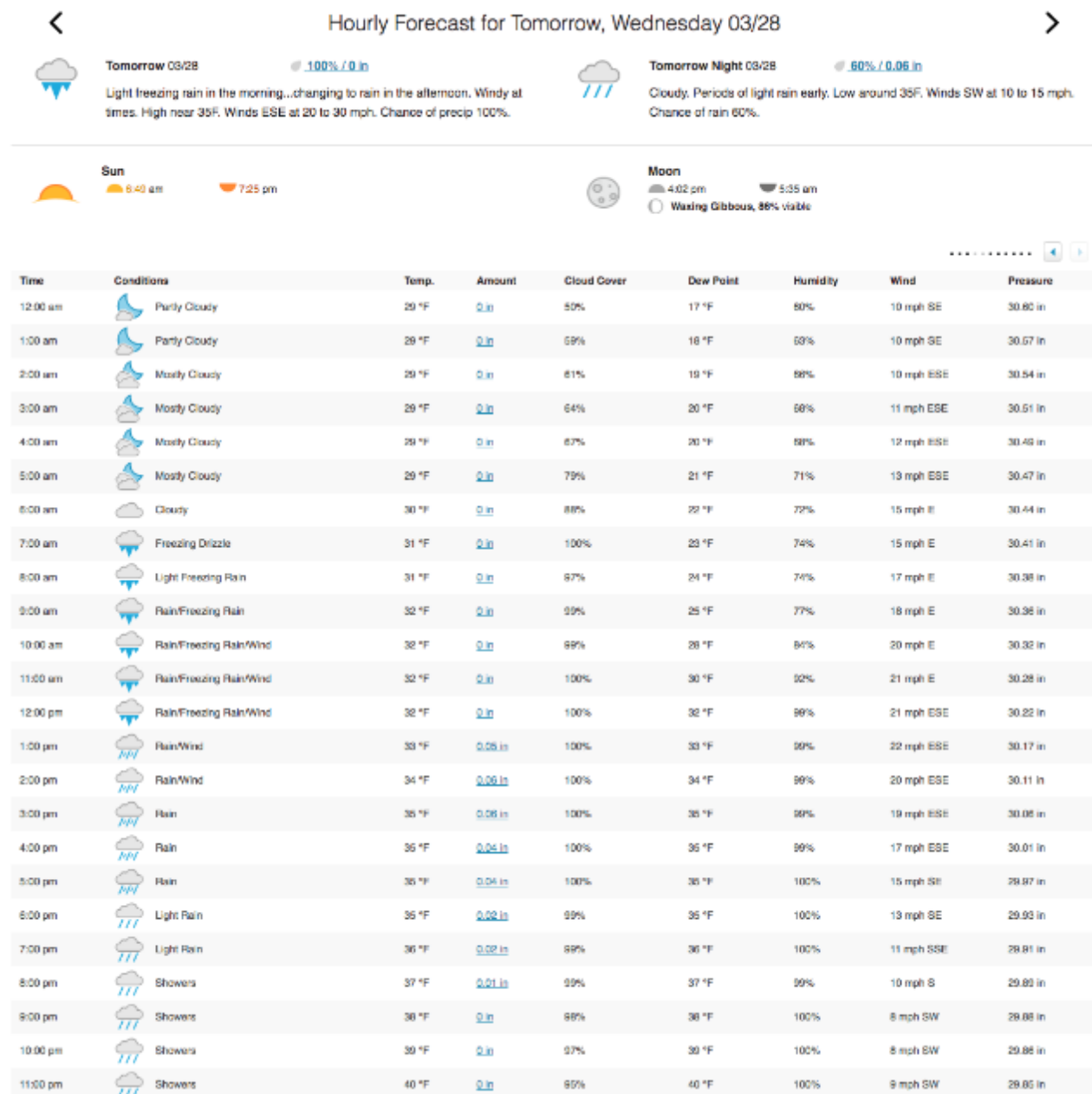
Fair



Wind West  
Gusts →



# St. John's - Wednesday Hourly

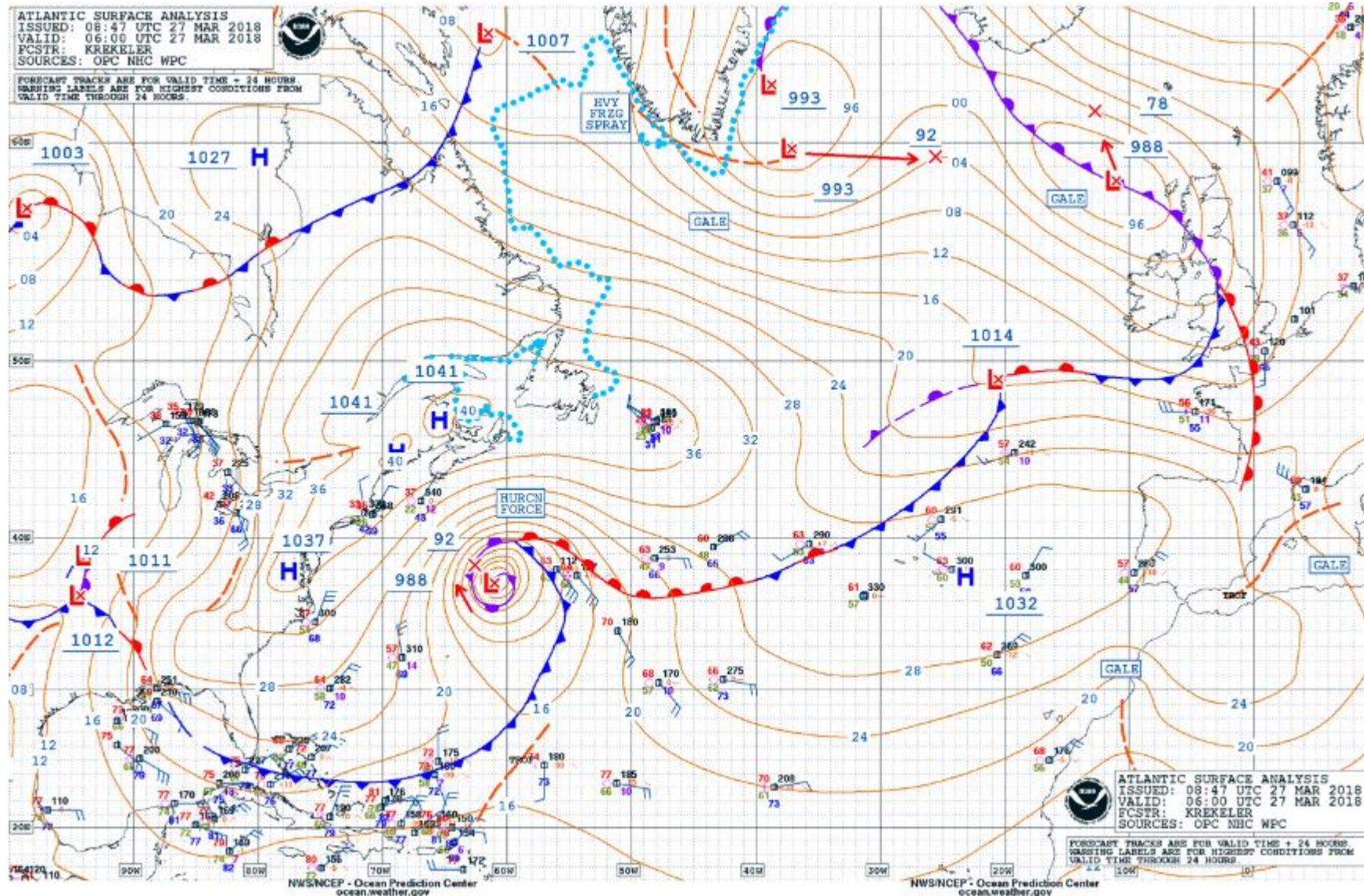




# St. John's - ~~METAR~~ & TAF

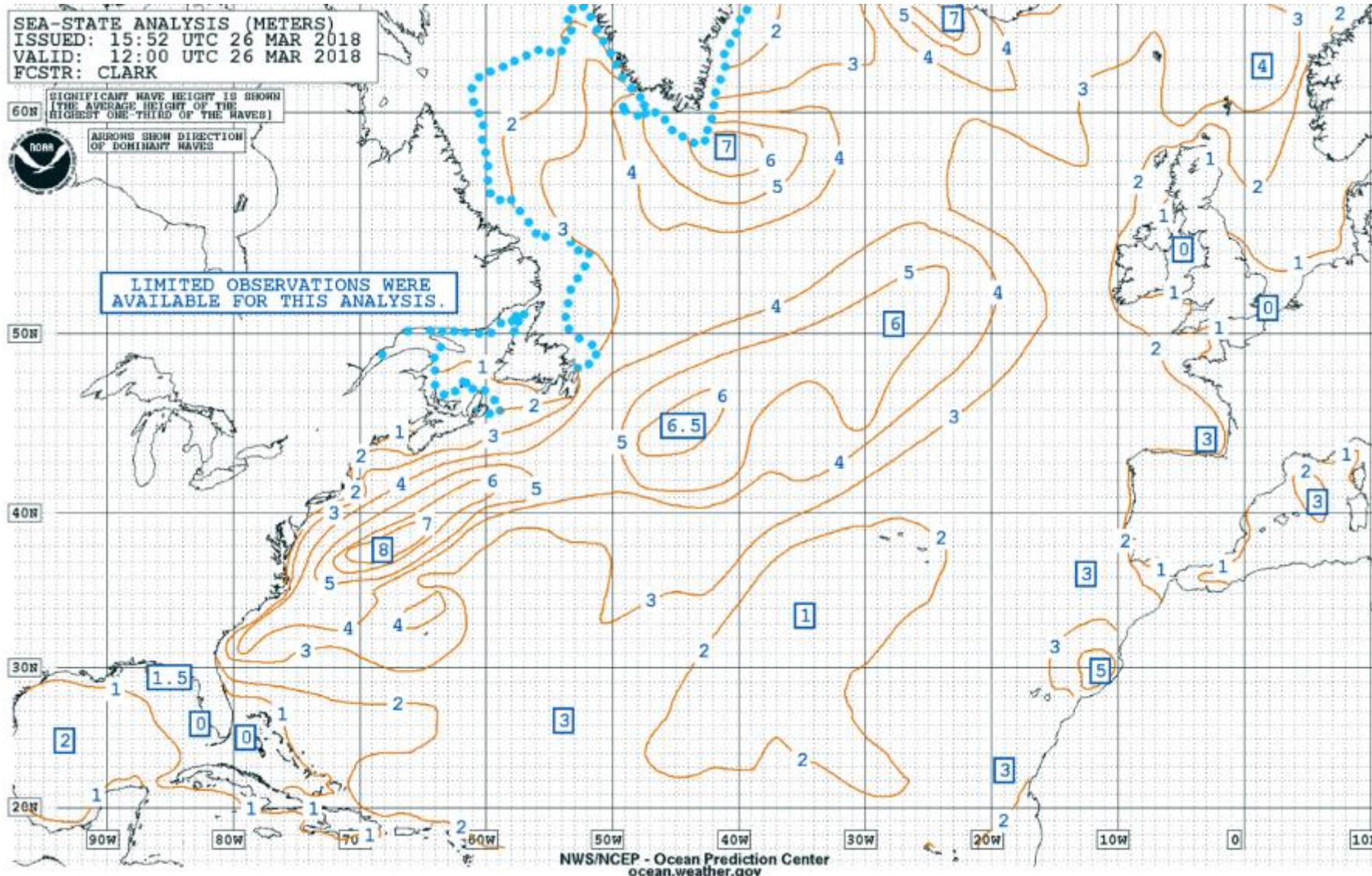
TAF CYYT 271138Z 2712/2812 24005KT P6SM FEW220 BECMG 2716/2718 16009KT BECMG 2800/2802 13006KT FM280600 09008KT P6SM SCT240 FM280900 09015KT P6SM BKN100 OVC150 FM281100 09018G28KT P6SM -FZRA BKN015 OVC060 RMK NXT FCST BY 271800Z=				
<b>TAF</b>		<b>LOCATION</b>  CYYT - ST. JOHN'S INTL/NL		<b>VALIDITY [UTC]</b> 27 MAR - 1138 to 28 MAR - 1200
<b>TIMES</b> [UTC]	<b>WIND</b> [DEGREES TRUE]	<b>VISIBILITY</b> [STAT. MILES]	<b>WEATHER</b>	<b>CLOUDINESS</b> [FEET AGL]
27 MAR - 1200 to 28 MAR - 0600	240 @ 5 KNOTS	6+	NIL	22000 FEW
BECOMING 27 MAR - 1600 to 27 MAR - 1800	160 @ 9 KNOTS			
BECOMING 28 MAR - 0000 to 28 MAR - 0200	130 @ 6 KNOTS			
28 MAR - 0600 to 28 MAR - 0900	90 @ 8 KNOTS	6+	NIL	24000 SCATTERED
28 MAR - 0900 to 28 MAR - 1100	90 @ 15 KNOTS	6+	NIL	10000 BROKEN 15000 OVERCAST
28 MAR - 1100 to 28 MAR - 1200	90 @ 18 KNOTS GUSTS 28 KNOTS	6+	LIGHT FREEZING RAIN	1500 BROKEN 6000 OVERCAST
<b>REMARKS</b> THE NEXT FORECAST WILL BE ISSUED BY 1800 UTC ON DAY 27				

# Surface Analysis





# Sea State Analysis

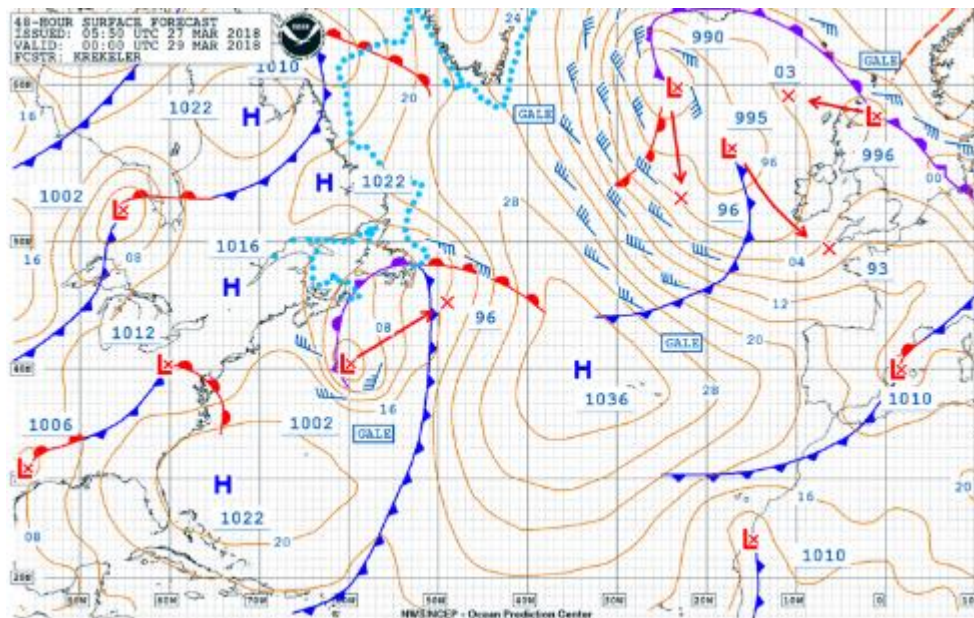


- Significant Wave Height is shown (in meters). This is the average height of the highest one-third of the waves
- Arrows show direction of dominant waves

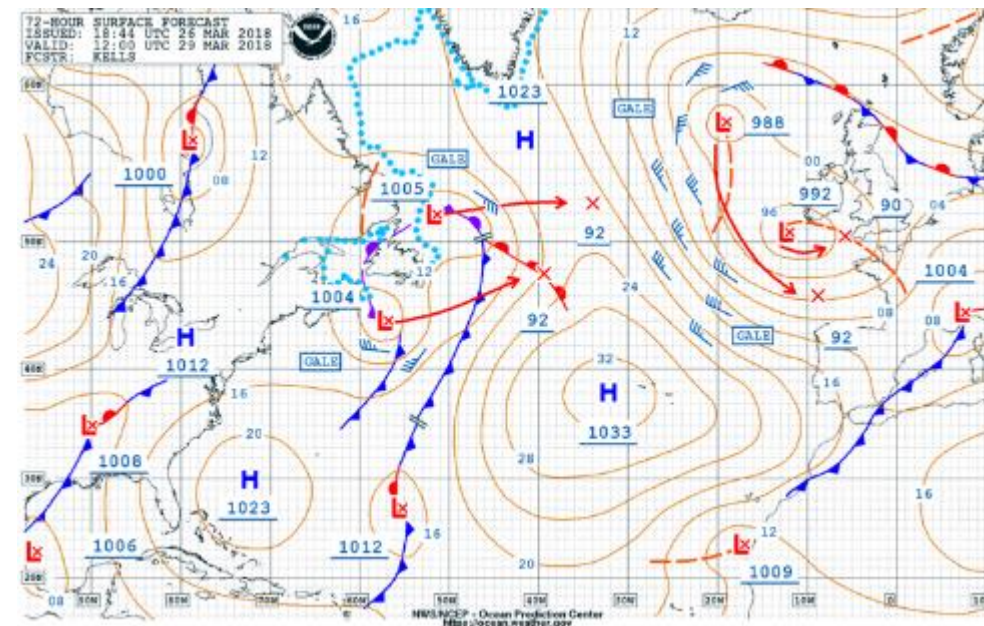


# Synoptic Forecast

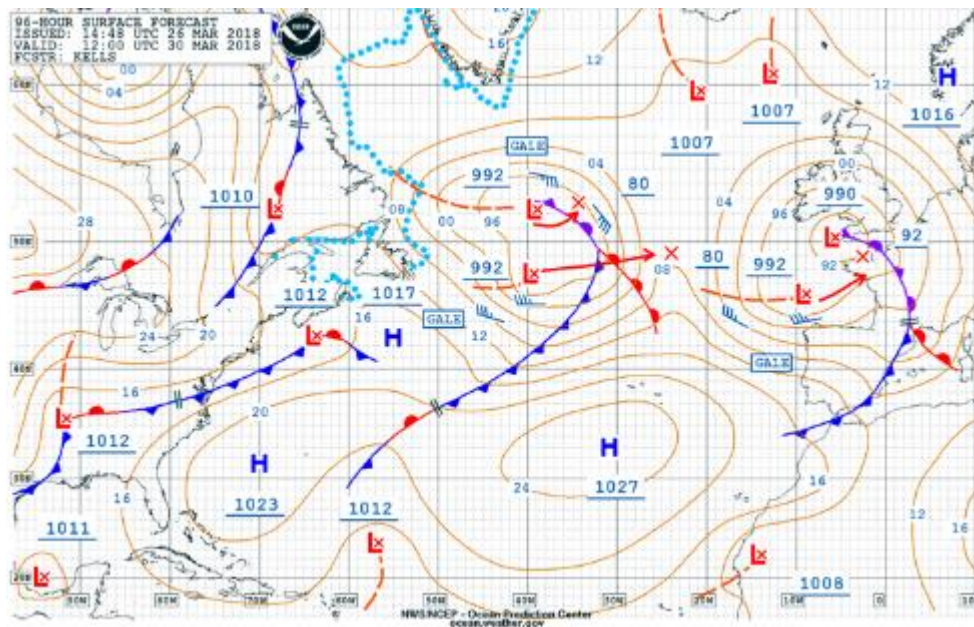
**Wednesday 9:30pm NDT/10pm Ship**



**Thursday 9:30am NDT/10am Ship**



**Friday 9:30am NDT/10am Ship**



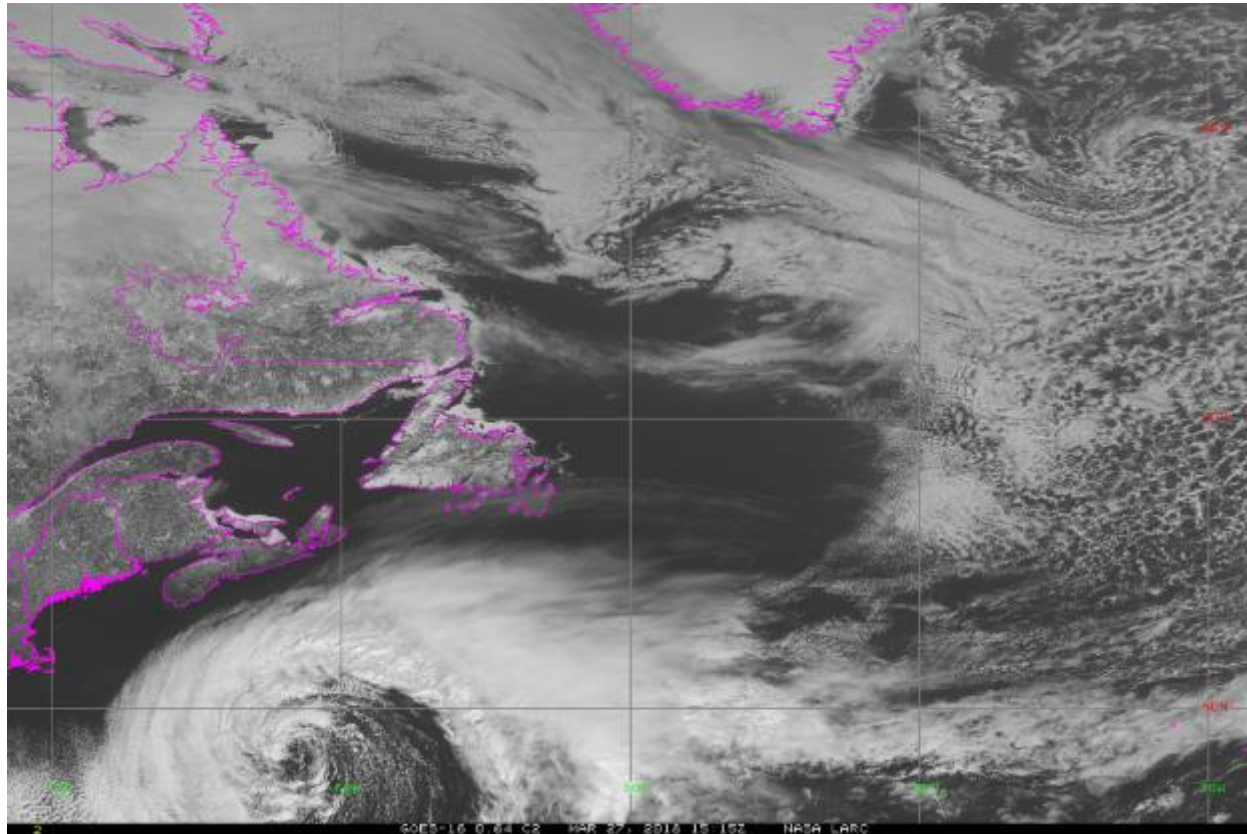


# GOES-16 Imagery (3/27 15:15 UTC)

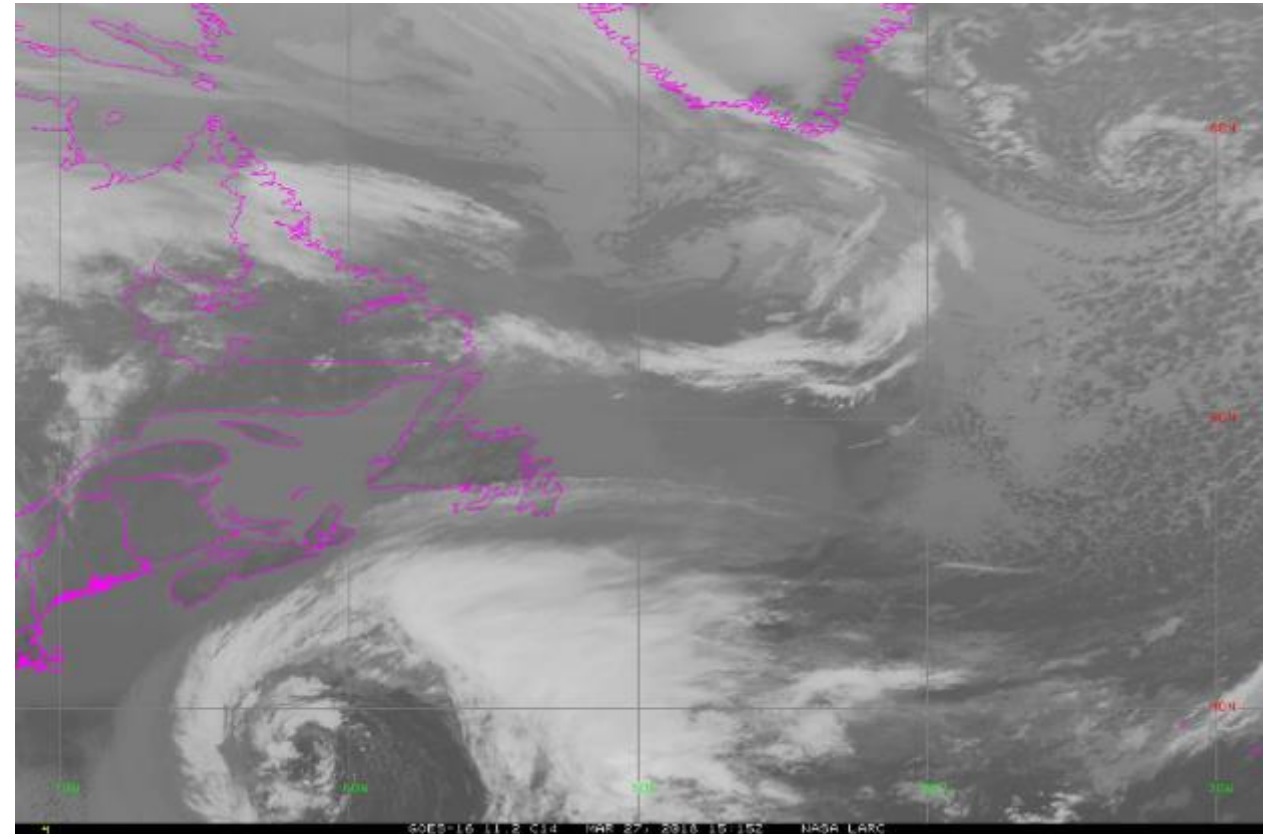
Visible

IR

2

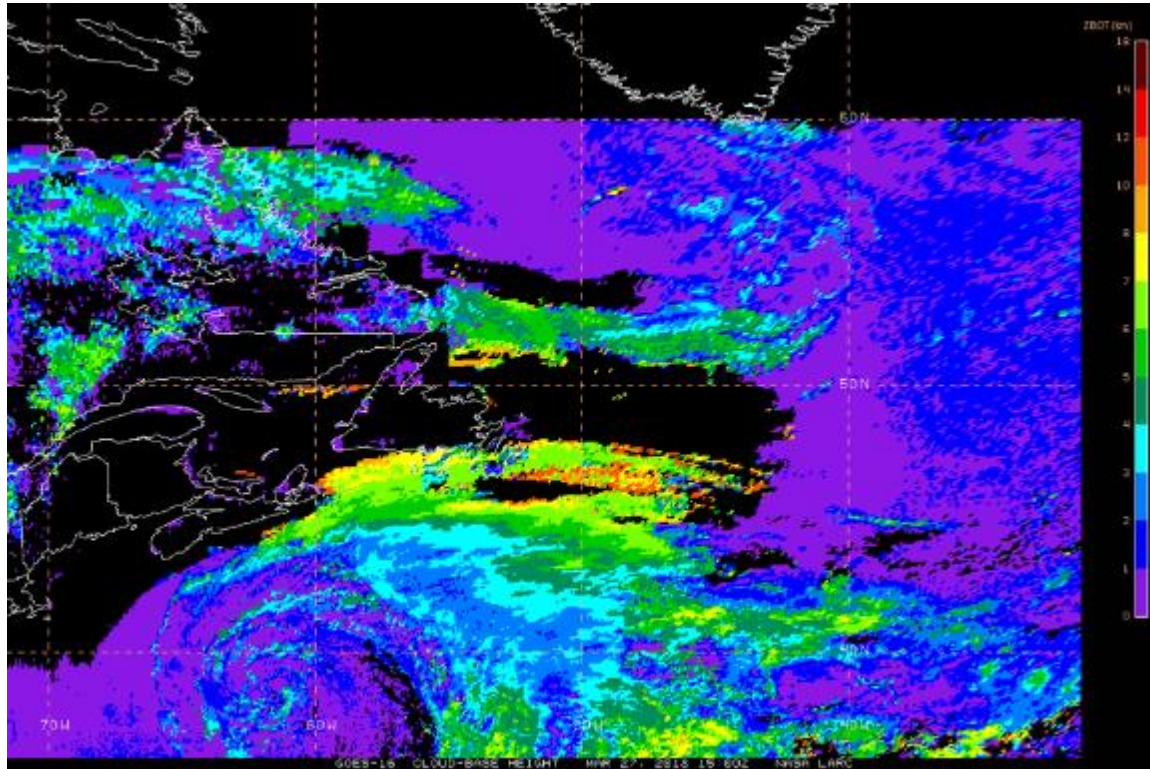


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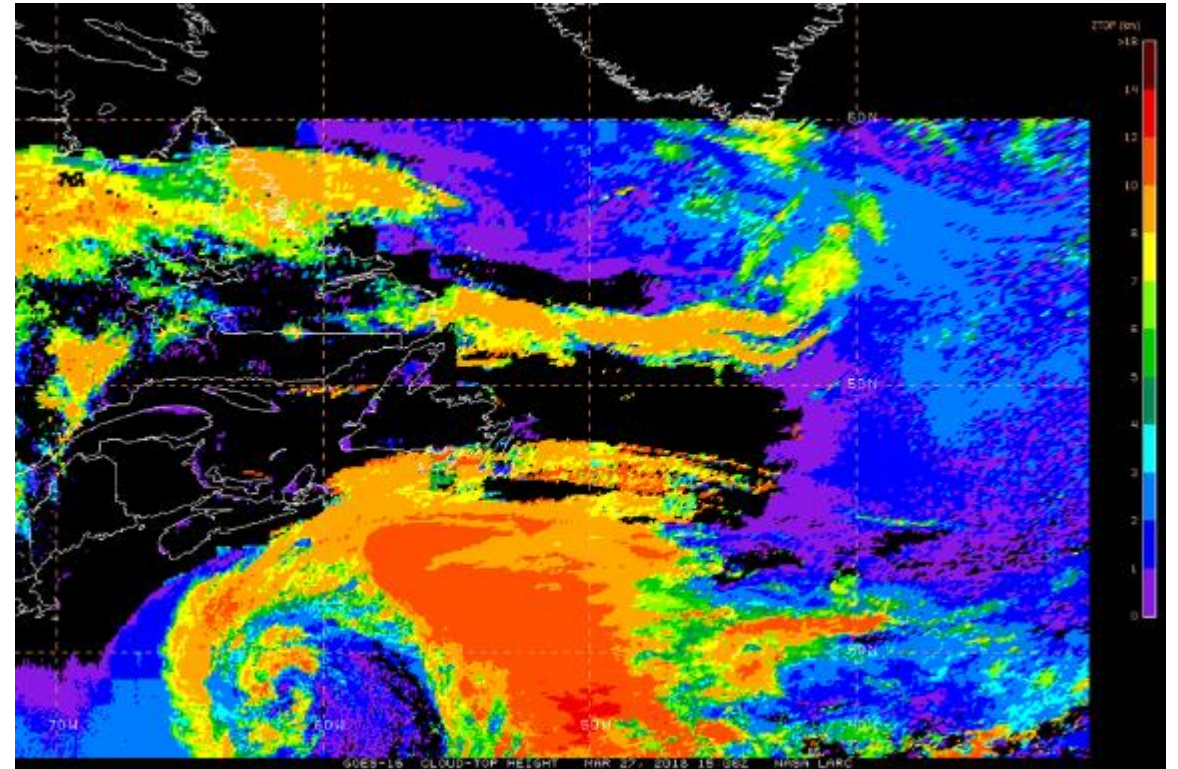


# GOES-16 Cloud Products (3/27 15:00 UTC)

Cloud Base Heights

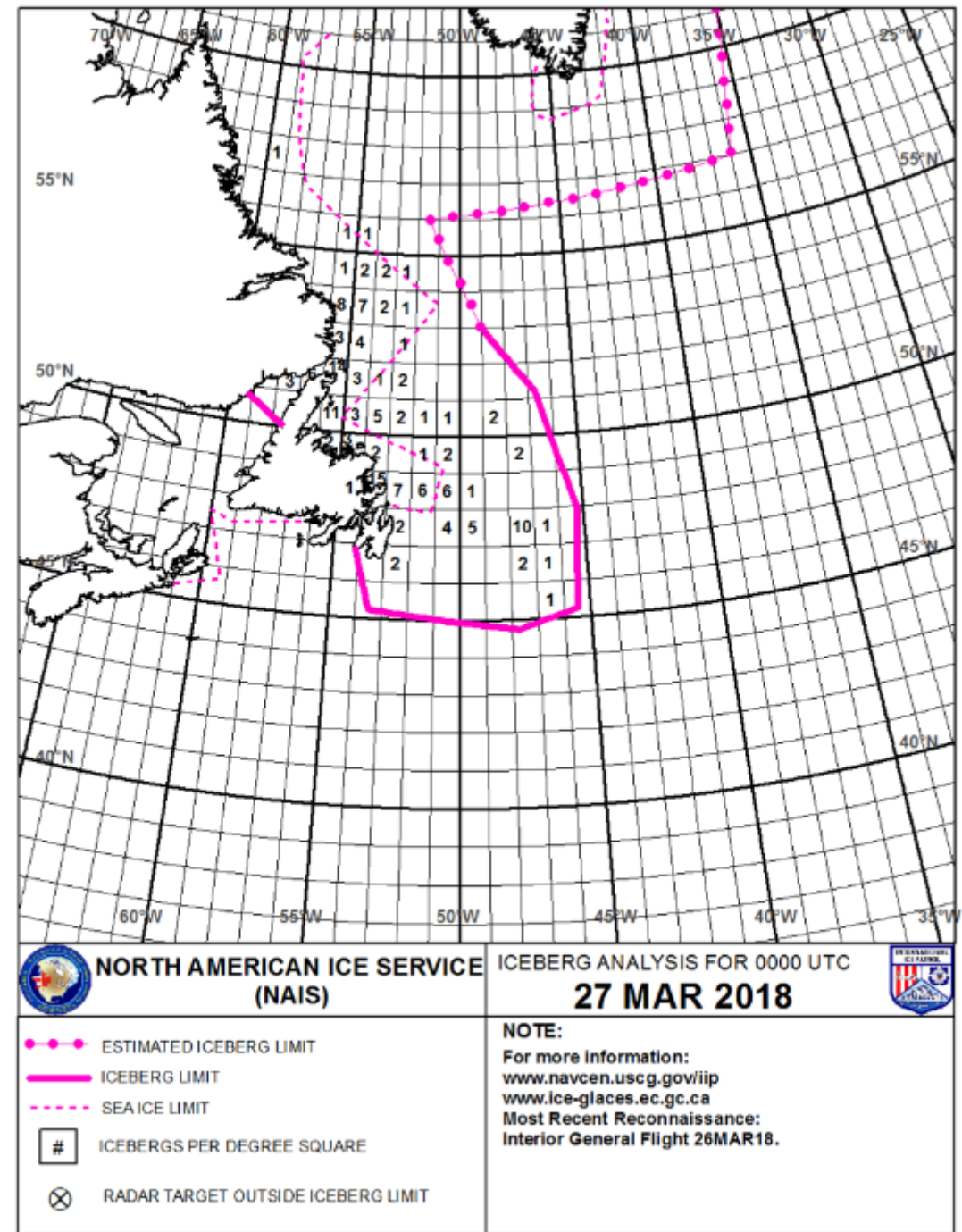


Cloud Top Heights

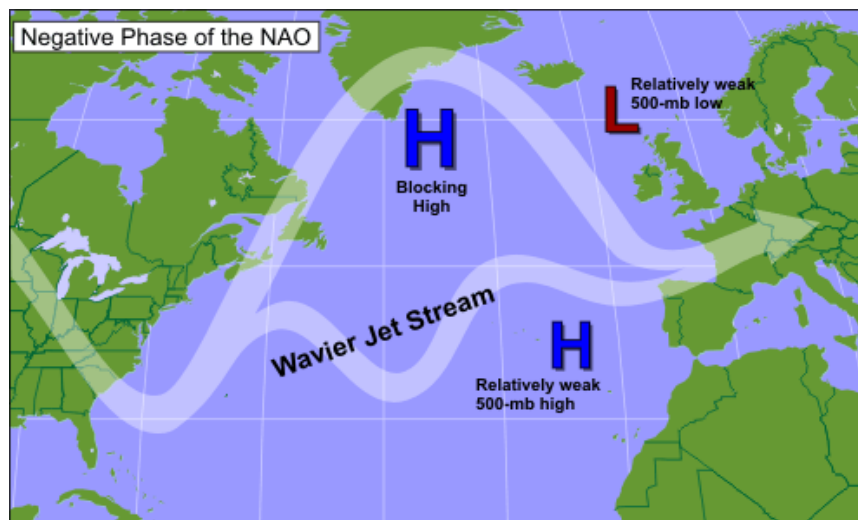
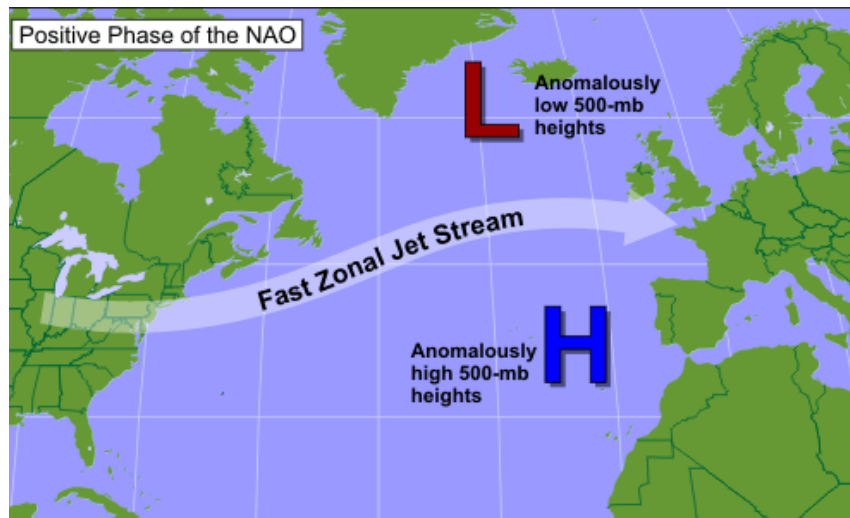




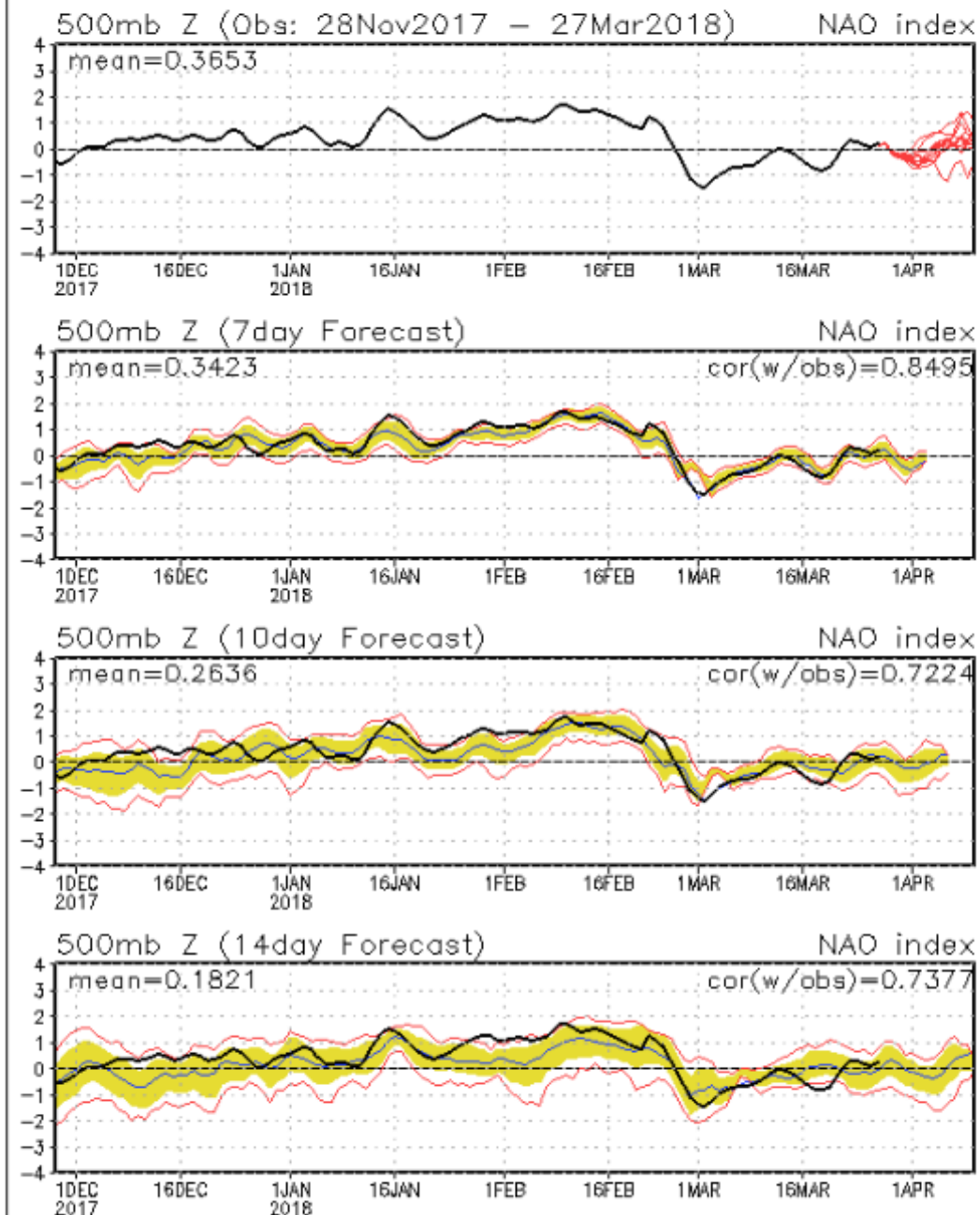
# Sea Ice and Icebergs



# Current NAO

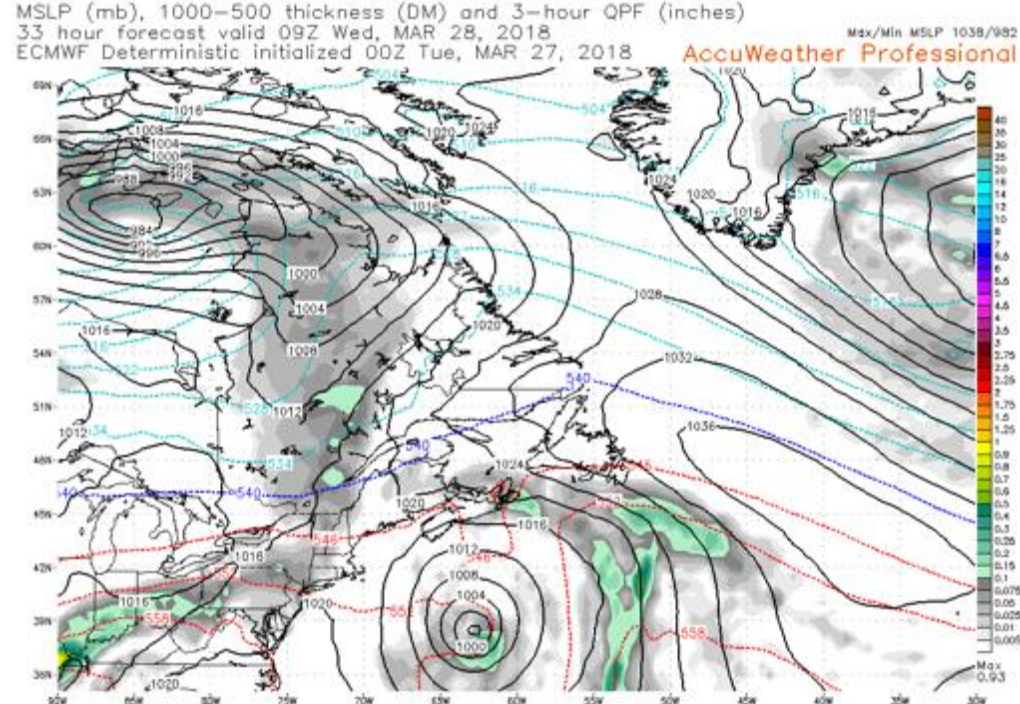


## NAO: Observed & ENSM forecasts

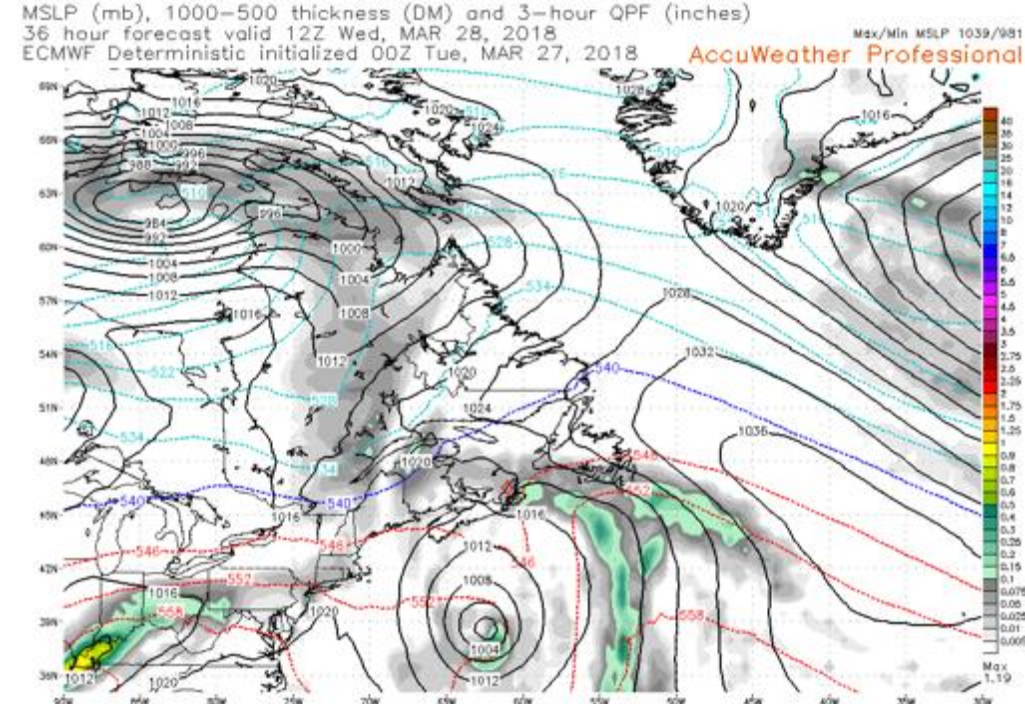




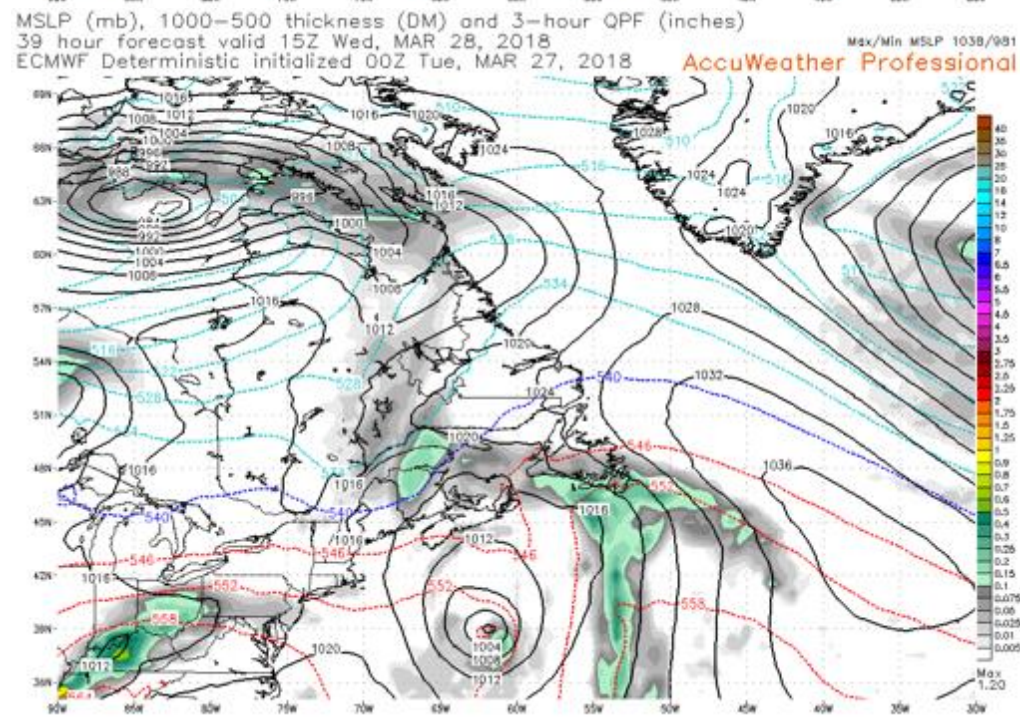
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Local



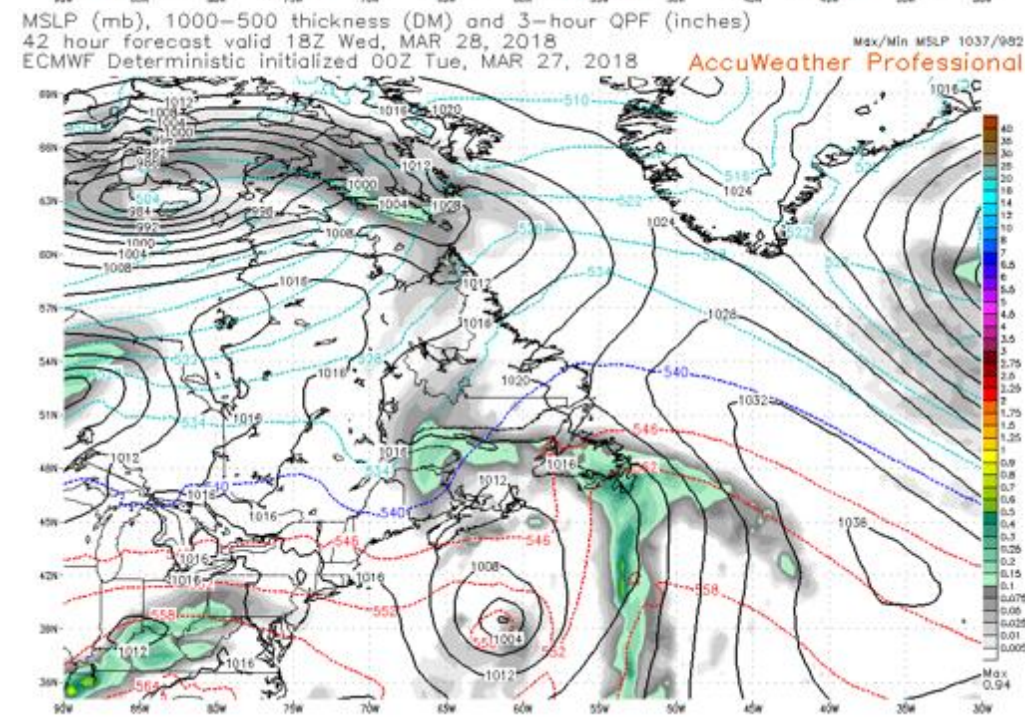
9:30  
Local



12:30  
Local

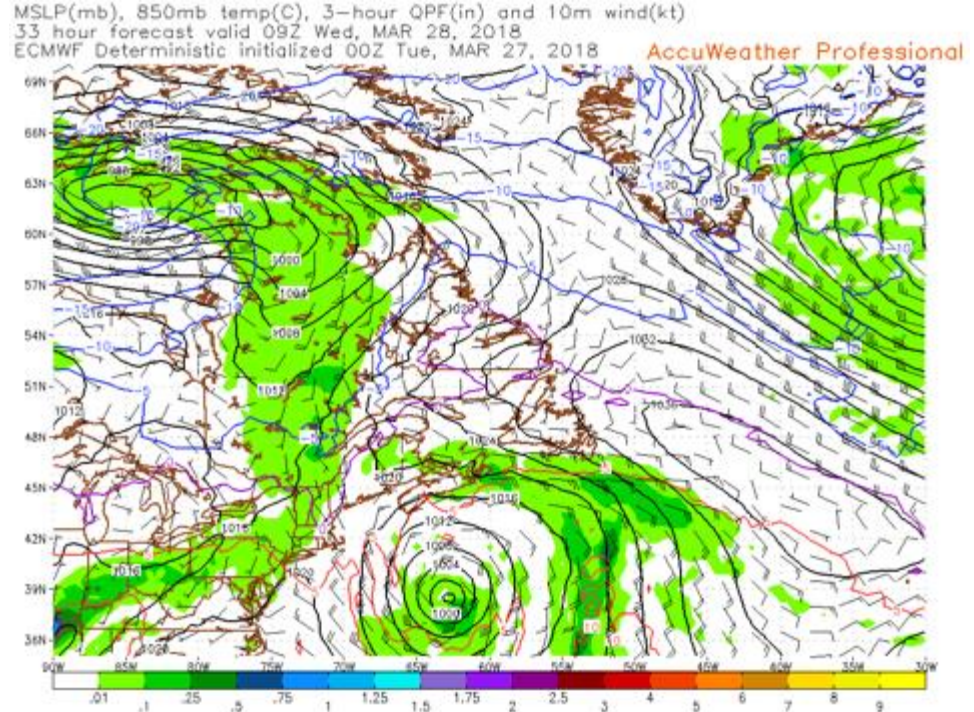


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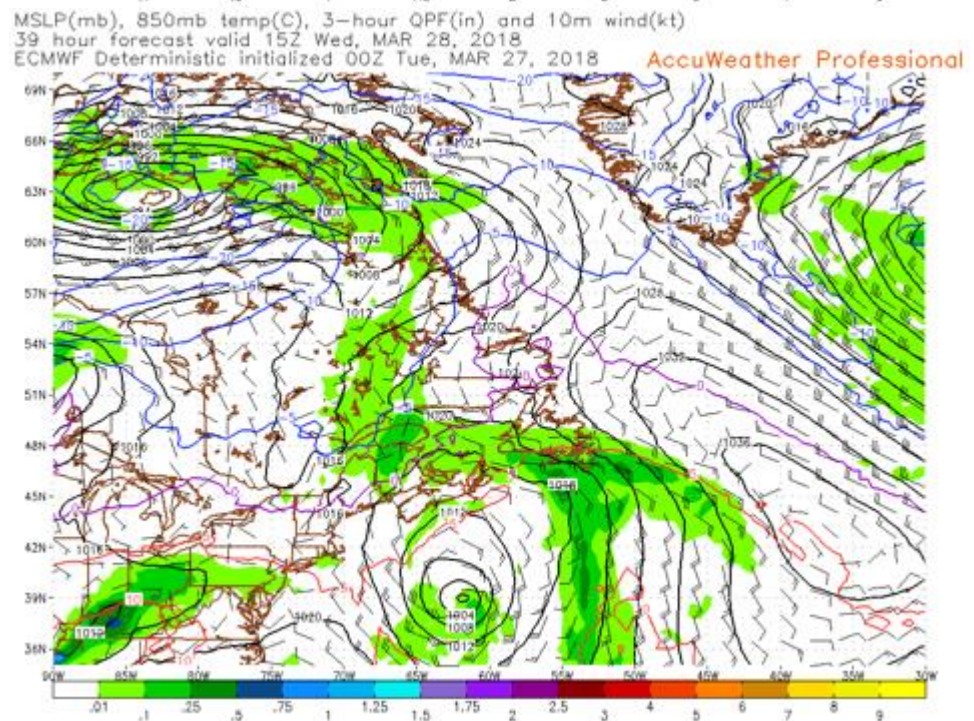




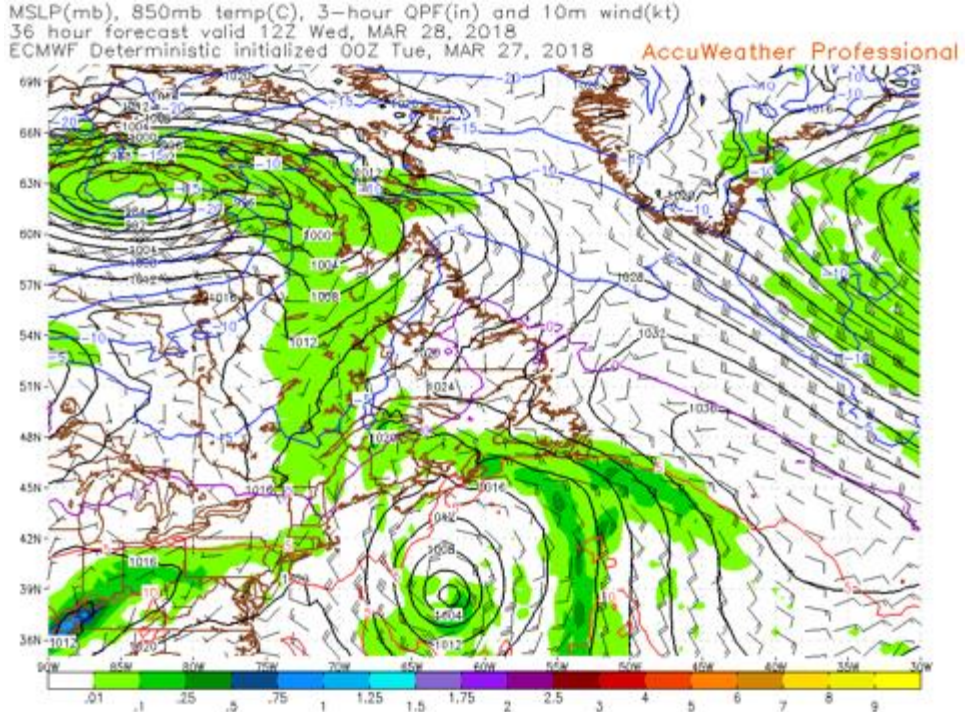
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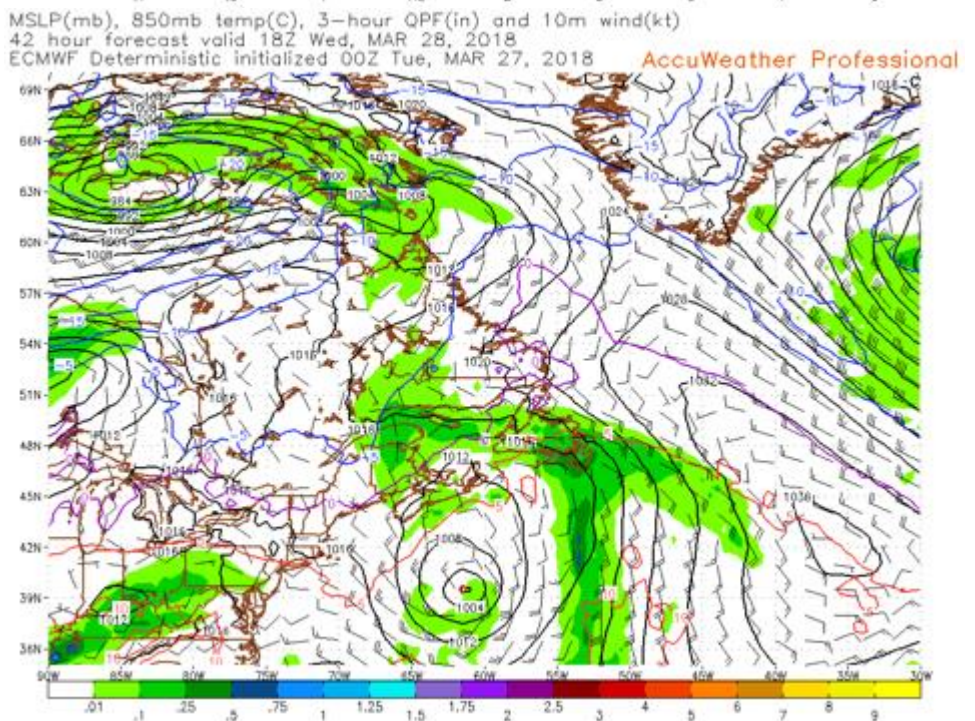
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9:30  
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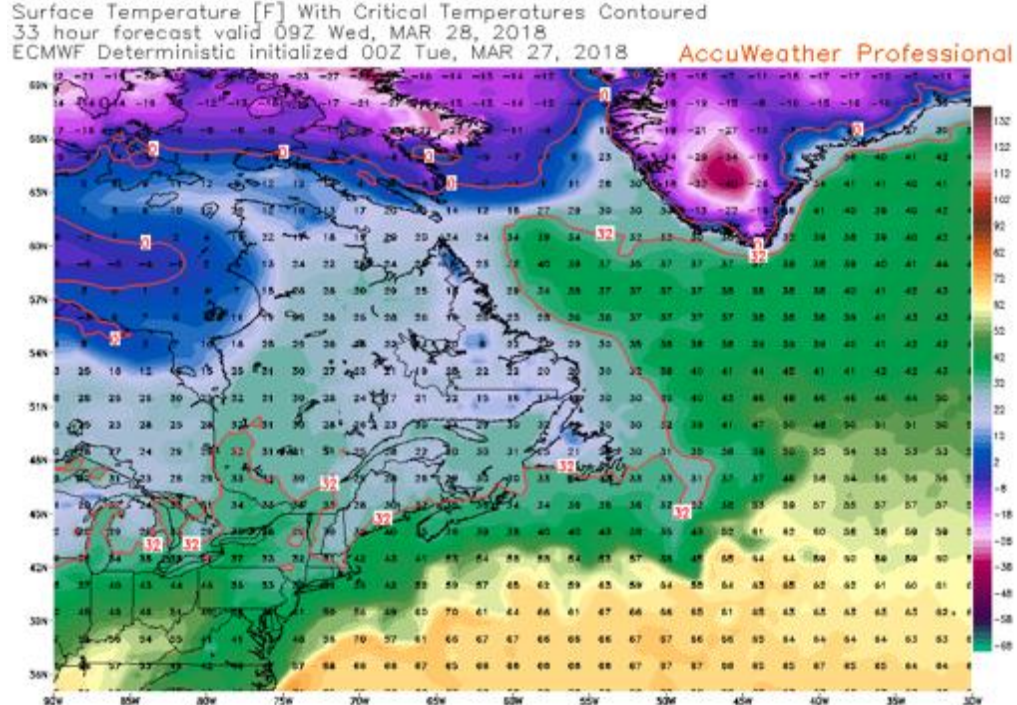


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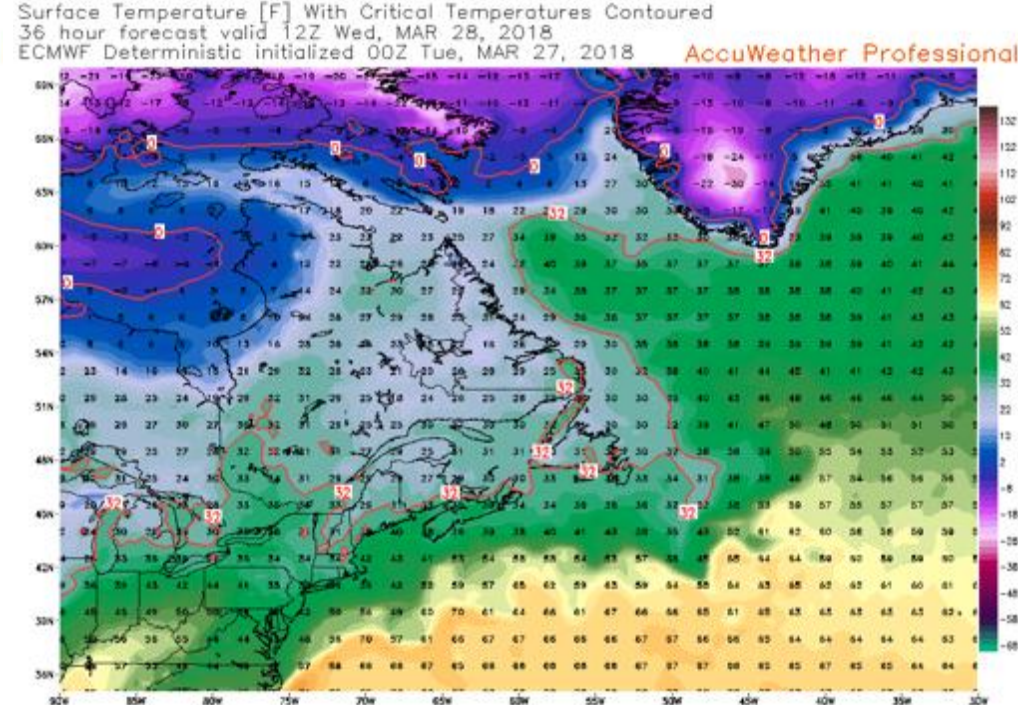




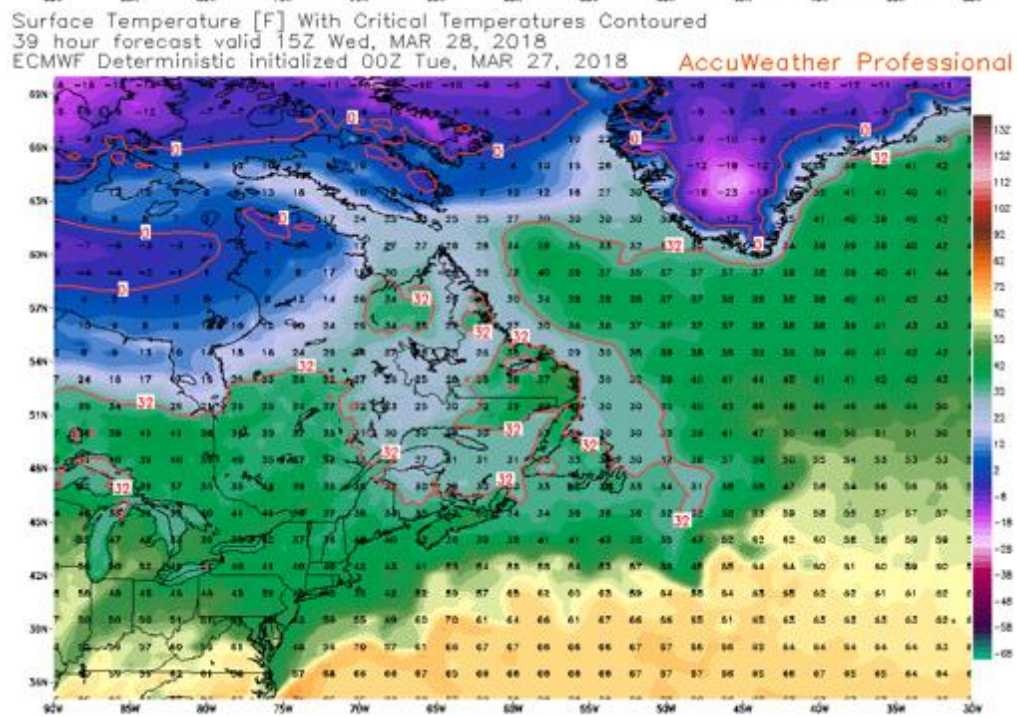
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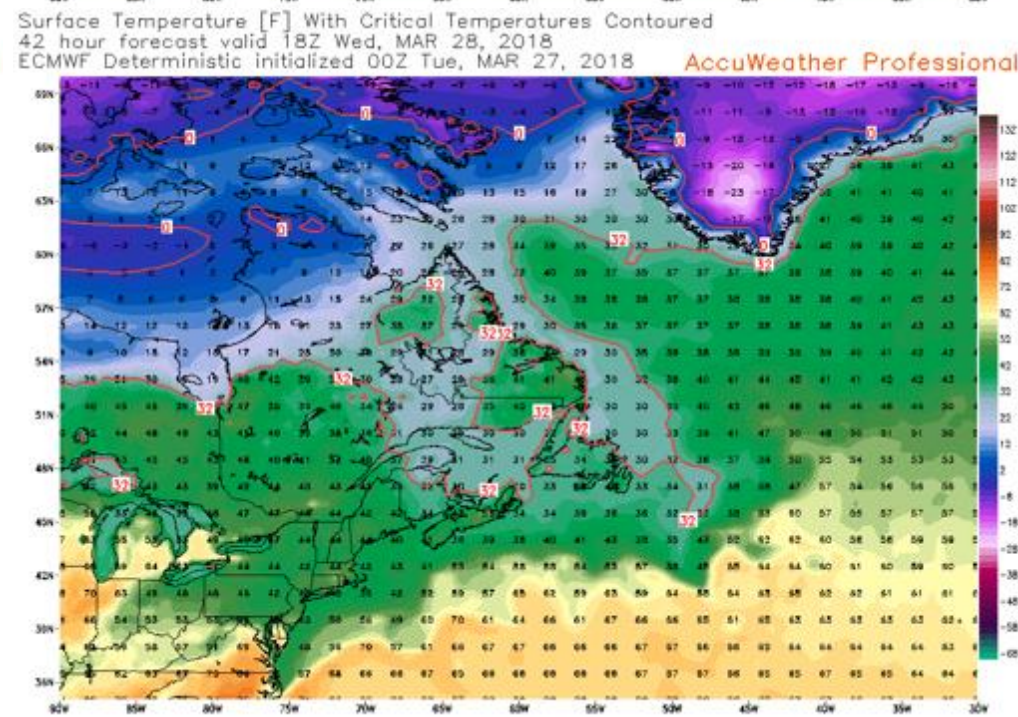
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12:30  
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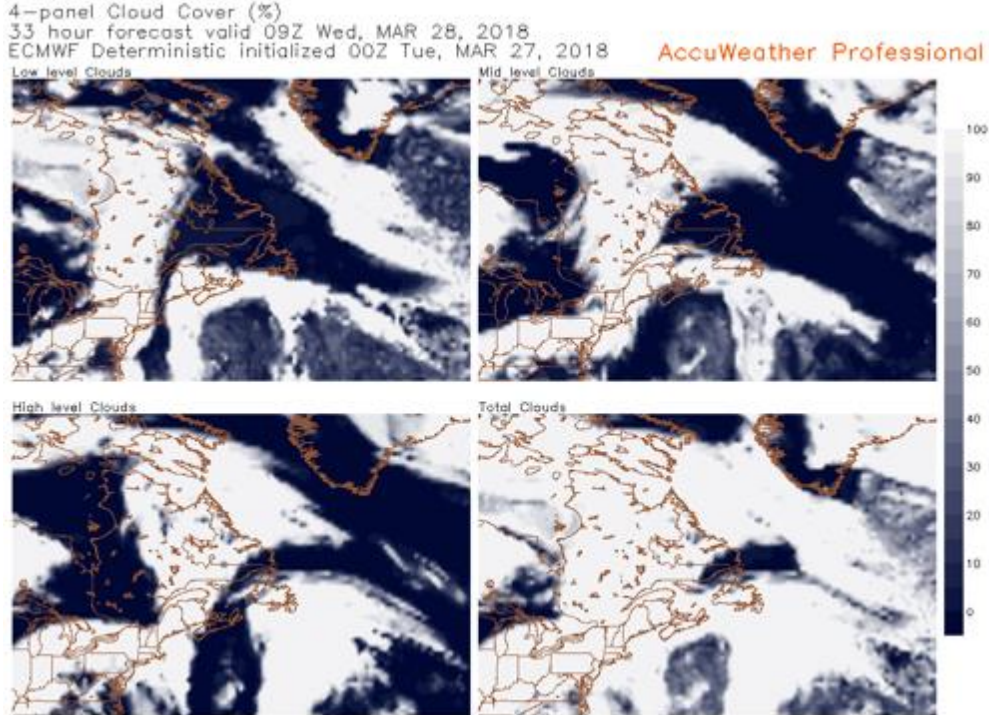


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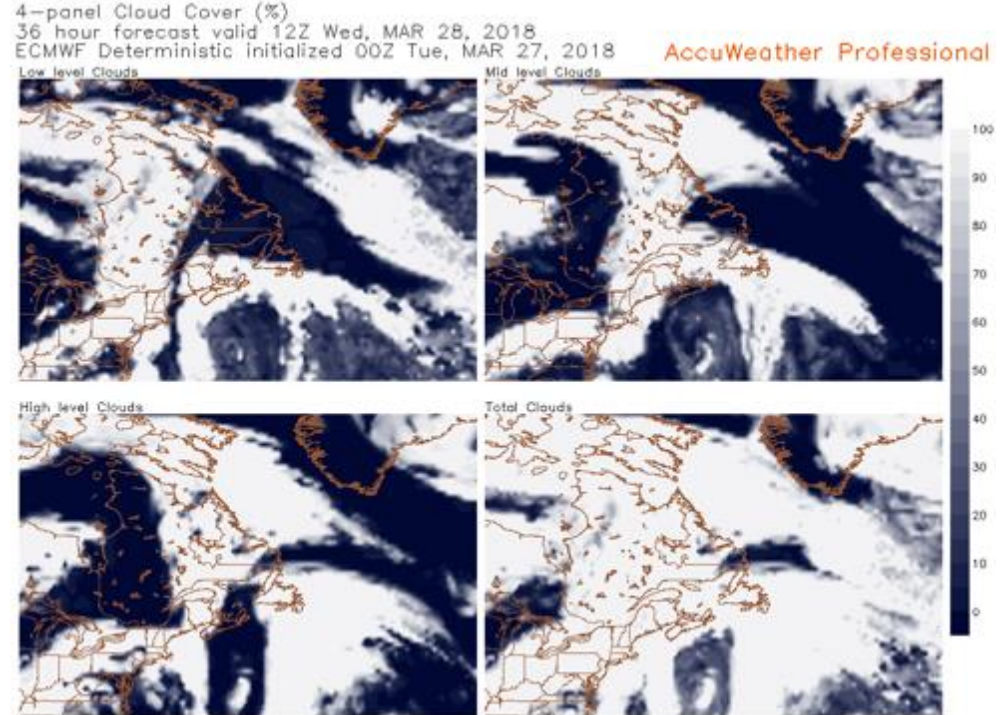




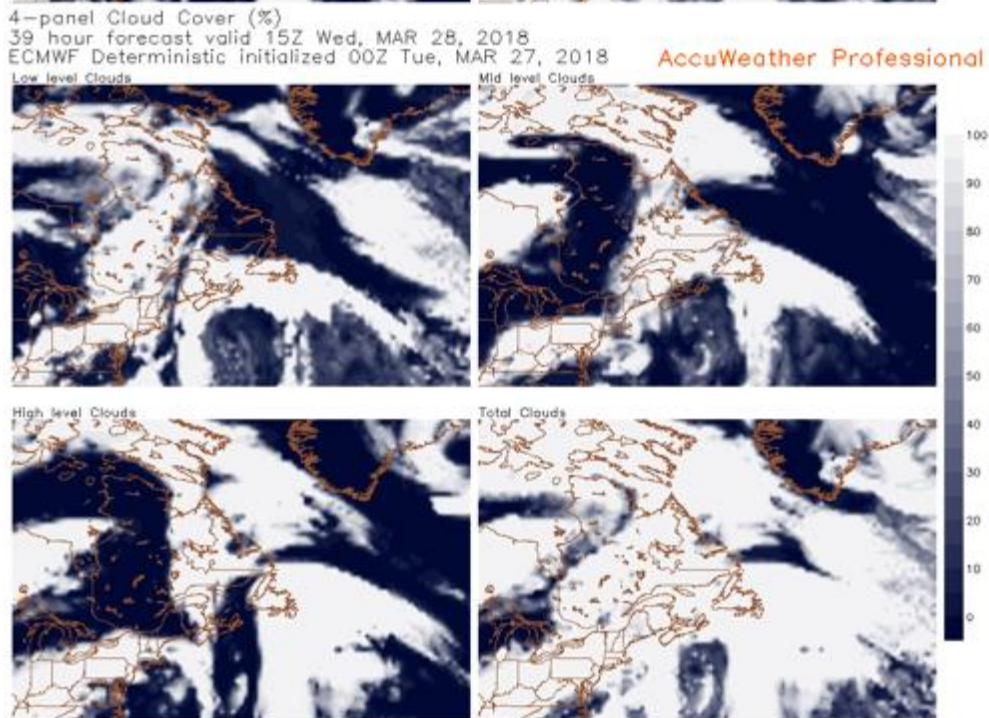
6:30  
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