

# **NAAMES**

# **WX Briefing**

**Friday, March 23, 2018**

Amy Jo Scarino

# Forecast Highlights

- Wallops- sunny and breezy, high of 51 today
- St. John's had freezing rain last night but has warmed up this morning and isolated rain showers, visibility improved by mid/late morning. Conditions will be good for landing tonight. Overnight snow Saturday into Sunday. Monday looks good and outlook shows temps above freezing and rain.
- Atlantis will see wind and waves gradually increase through Sunday morning, will be on the southern edge of the front
- Models seem to be in better agreement today than yesterday. Models still diverge on Monday with location of next storm system, this system is now weaker and keeps west of the domain

# Planned Ship Route & Forecast

## Wednesday, 3/28 – S1

Waves: W 7-9 ft  
Winds: SSE 12-16 kts  
Clouds: Partly cloudy (mid cl)  
Precip: none

## Monday, 3/26 Practice Station

Waves: W to NW 9-12 ft  
Winds: variable to ESE 5-10 kts  
Clouds: Partly cloudy (high cl)  
Precip: none

## Saturday, 3/24

Waves: W to SW 10-14 ft  
Winds: SSW 20-25 kts  
Clouds: Mostly cloudy  
Precip: Evening rain showers/heavy at times

## Sunday, 3/25

Waves: W 12-15 ft  
Winds: WSW 18-22 kts  
Clouds: Mostly to partly cloudy  
Precip: AM isolated rain showers

## Friday, 3/23

Waves: WNW 7-9 ft  
Winds: SSE 15-20 kts  
Clouds: Partly cloudy  
Precip: none

## Thursday, 3/29 – S2

Waves: WNW 5-7 ft  
Winds: SSE 5-10 kts  
Clouds: Mostly cloudy (low/high cl)  
Precip: isolated rain showers

## Tuesday, 3/27

Waves: NNE 9-12 ft  
Winds: SE 15-20 kts  
Clouds: Mostly cloudy  
Precip: Scattered rain showers

4/9/18  
N45°

S3

S4

S1-S2

3/26-27/18 - 1

N35°

3/25/18 =

3/24/18 - 12 UTC

W85°

W75°

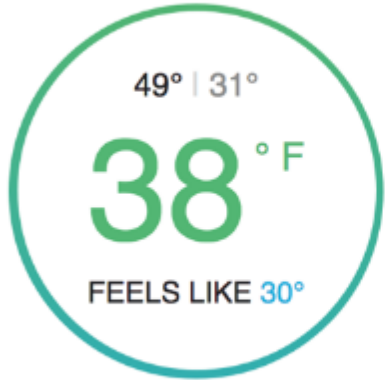
W65°

N25°

W15°

# Wallops – Current & Forecast

© 8:50 AM EDT on March 23, 2018 (GMT -0400) | Updated 2 minutes ago

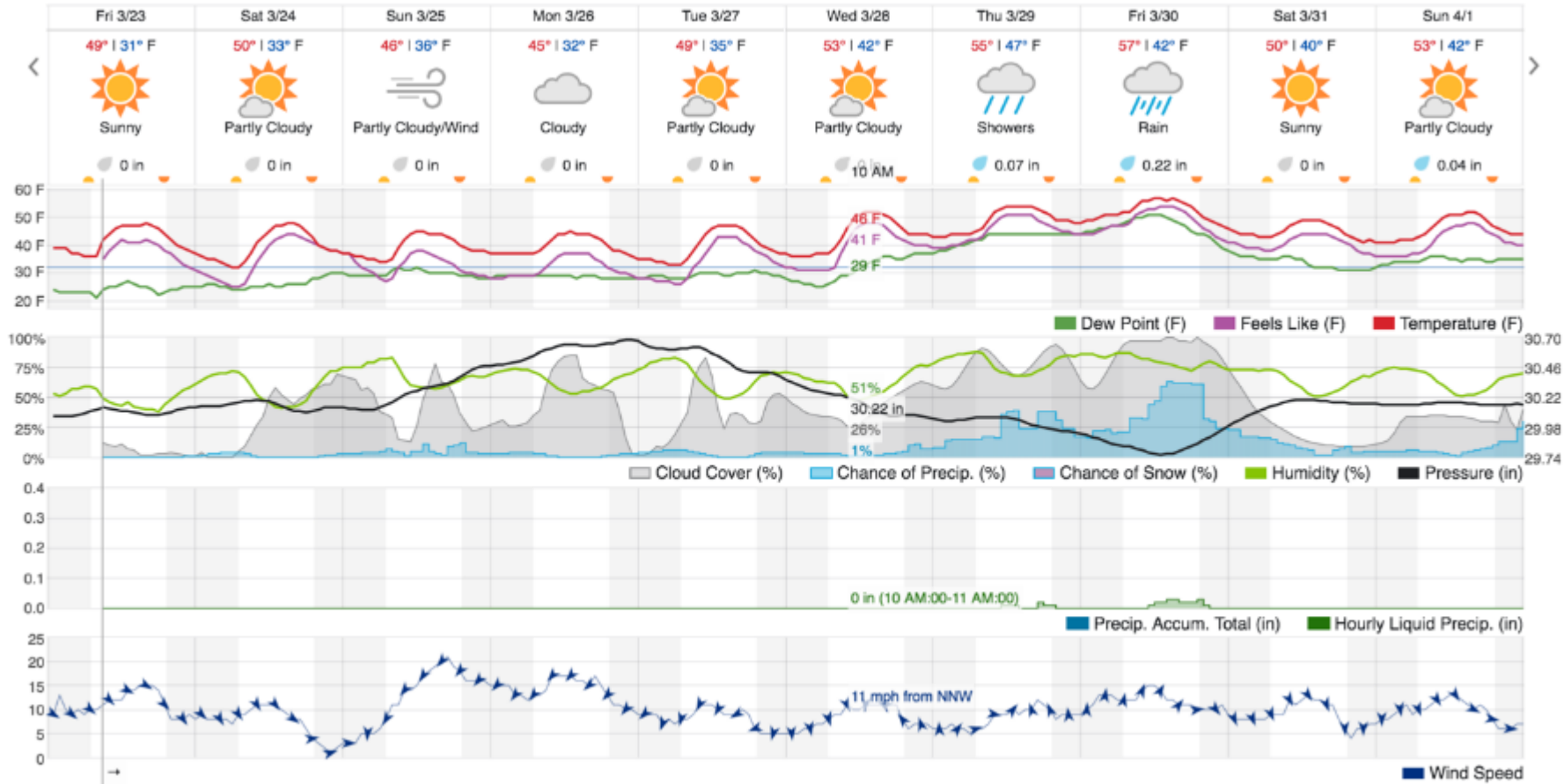


Sunny



Wind NW  
Gusts 16 mph

Today is forecast to be **WARMER** than yesterday.





# St. John's - Current & Forecast

© 11:31 AM NDT on March 23, 2018 (GMT -0230)

Updated 42 minutes ago



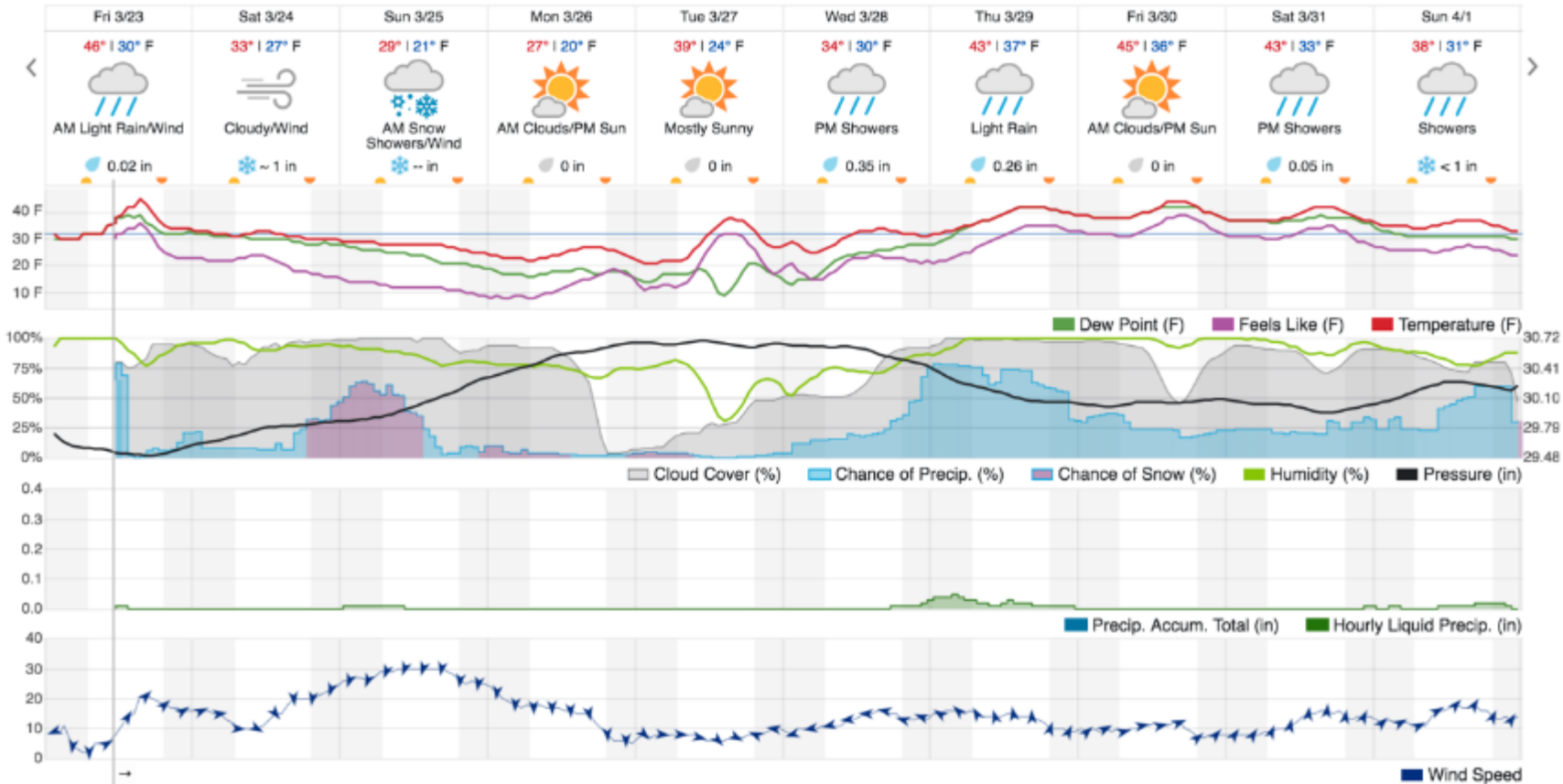
Mostly Cloudy



Wind SW  
Gusts --

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

RADAR SATELLITE



# St. John's - METAR & TAF

METAR CYYT 231300Z 23012G18KT 8SM SCT003 BKN063 08/08 A2951 RMK ST3SC3 VIS LWR S SLP999=

METAR	LOCATION CYYT - ST. JOHN'S INTL/NL	DATE - TIME 23 MARCH 2018 - 1300 UTC
WIND 230 TRUE @ 12 KNOTS GUSTS 18 KNOTS	VISIBILITY 8 STAT. MILES	RUNWAY VISUAL RANGE
WEATHER	CLOUDINESS SCATTERED CLOUDS (3/8 - 4/8) 300 FT BROKEN CLOUDS (5/8 - 7/8) 6300 FT	TEMP / DEWPOINT 8 C / 8 C
ALTIMETER 29.51 IN HG	RECENT WEATHER	WIND SHEAR

SPECI CYYT 231220Z 22004KT 2 1/2SM BR BKN003 BKN029 04/04 A2952 RMK ST5SC2 SLP005=

SPECI	LOCATION CYYT - ST. JOHN'S INTL/NL	DATE - TIME 23 MARCH 2018 - 1220 UTC
WIND 220 TRUE @ 4 KNOTS	VISIBILITY 2 1/2 STAT. MILES	RUNWAY VISUAL RANGE
WEATHER MIST	CLOUDINESS BROKEN CLOUDS (5/8 - 7/8) 300 FT BROKEN CLOUDS (5/8 - 7/8) 2900 FT	TEMP / DEWPOINT 4 C / 4 C
ALTIMETER 29.52 IN HG	RECENT WEATHER	WIND SHEAR

METAR CYYT 231200Z 23006KT 1/2SM R29/3000V5000FT/U R16/2800V4500FT/U -DZ FG VV003 02/02 A2953 RMK FG8 SLP008=

METAR	LOCATION CYYT - ST. JOHN'S INTL/NL	DATE - TIME 23 MARCH 2018 - 1200 UTC
WIND 230 TRUE @ 6 KNOTS	VISIBILITY 1/2 STAT. MILE	RUNWAY VISUAL RANGE RUNWAY 29 MIN RANGE 3000 FT MAX RANGE 5000 FT TENDENCY UPWARD RUNWAY 16 MIN RANGE 2800 FT MAX RANGE 4500 FT TENDENCY UPWARD
WEATHER LIGHT DRIZZLE FOG	CLOUDINESS VERTICAL VISIBILITY 300 FT	TEMP / DEWPOINT 2 C / 2 C
ALTIMETER 29.53 IN HG	RECENT WEATHER	WIND SHEAR

TAF CYYT 231146Z 2312/2412 VRB03KT 1/8SM -DZ -RA FG VV001 TEMPO 2312/2314 1/2SM FG OVC005 FM231400 21010KT 1/2SM FG OVC005 BECMG 2314/2316 P6SM NSW OVC008 FM231600 21015G25KT P6SM OVC008 TEMPO 2316/2402 BKN015 FM240200 24018G28KT P6SM OVC008 RMK NXT FCST BY 231800Z=

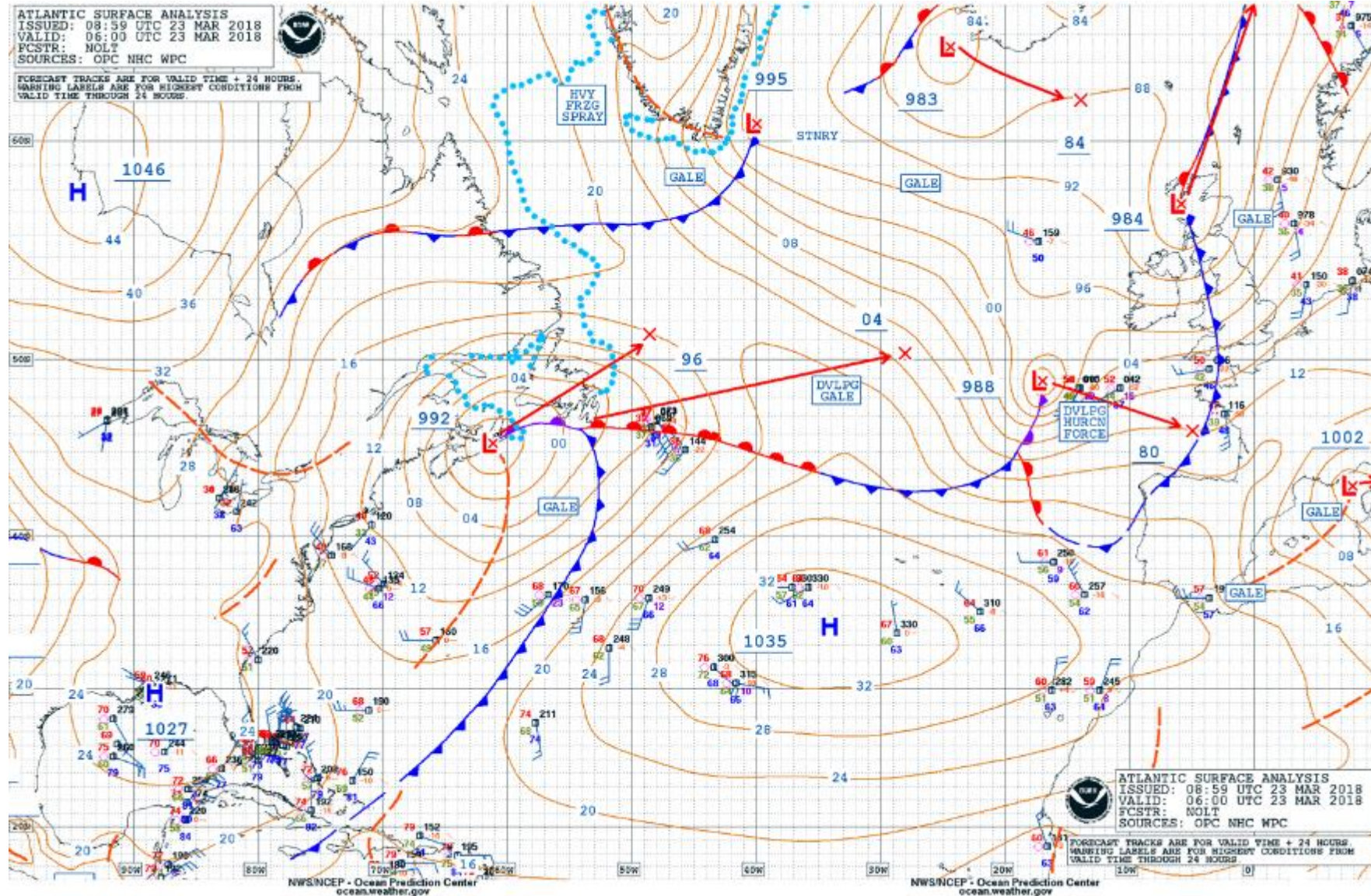
TAF		LOCATION		VALIDITY [UTC]
		CYYT - ST. JOHN'S INTL/NL		23 MAR - 1146 to 24 MAR - 1200
TIMES [UTC]	WIND [DEGREES TRUE]	VISIBILITY [STAT. MILES]	WEATHER	CLOUDINESS [FEET AGL]
23 MAR - 1200 to 23 MAR - 1400	VARIABLE @ 3 KNOTS	1/8	LIGHT DRIZZLE LIGHT RAIN FOG	VERTICAL VISIBILITY 100
TEMPORARY CHANGES 23 MAR - 1200 to 23 MAR - 1400		1/2	FOG	500 OVERCAST
23 MAR - 1400 to 23 MAR - 1600	210 @ 10 KNOTS	1/2	FOG	500 OVERCAST
BECOMING 23 MAR - 1400 to 23 MAR - 1600		6+	NIL	800 OVERCAST
23 MAR - 1600 to 24 MAR - 0200	210 @ 15 KNOTS GUSTS 25 KNOTS	6+	NIL	800 OVERCAST
TEMPORARY CHANGES 23 MAR - 1600 to 24 MAR - 0200				1500 BROKEN
24 MAR - 0200 to 24 MAR - 1200	240 @ 18 KNOTS GUSTS 28 KNOTS	6+	NIL	800 OVERCAST

## REMARKS

THE NEXT FORECAST WILL BE ISSUED BY 1800 UTC ON DAY 23

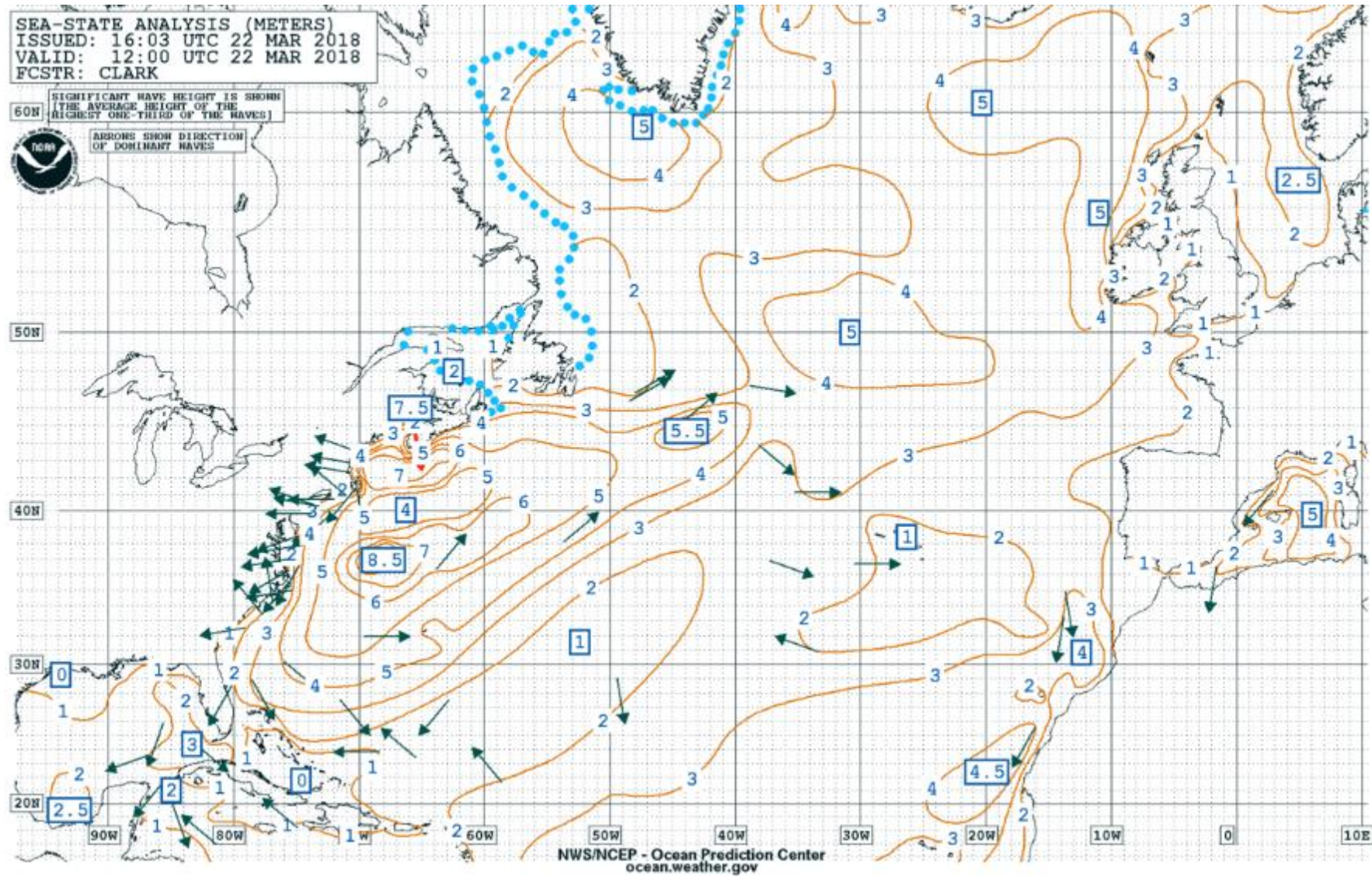


# Surface Analysis





# Sea State Analysis

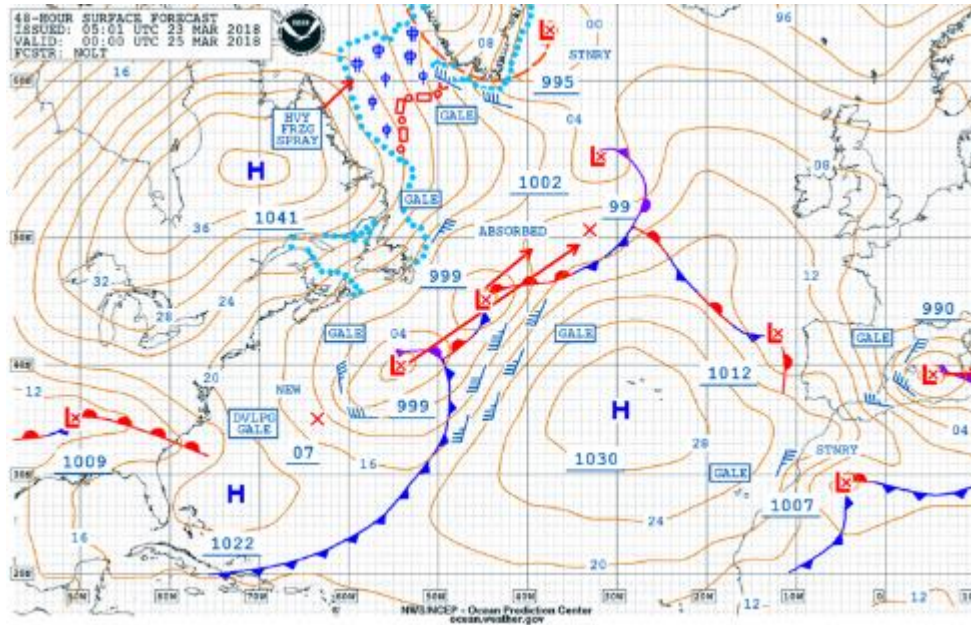


- Significant Wave Height is shown (in meters). This is the average height of the highest one-third of the waves
- Arrows show direction of dominant waves

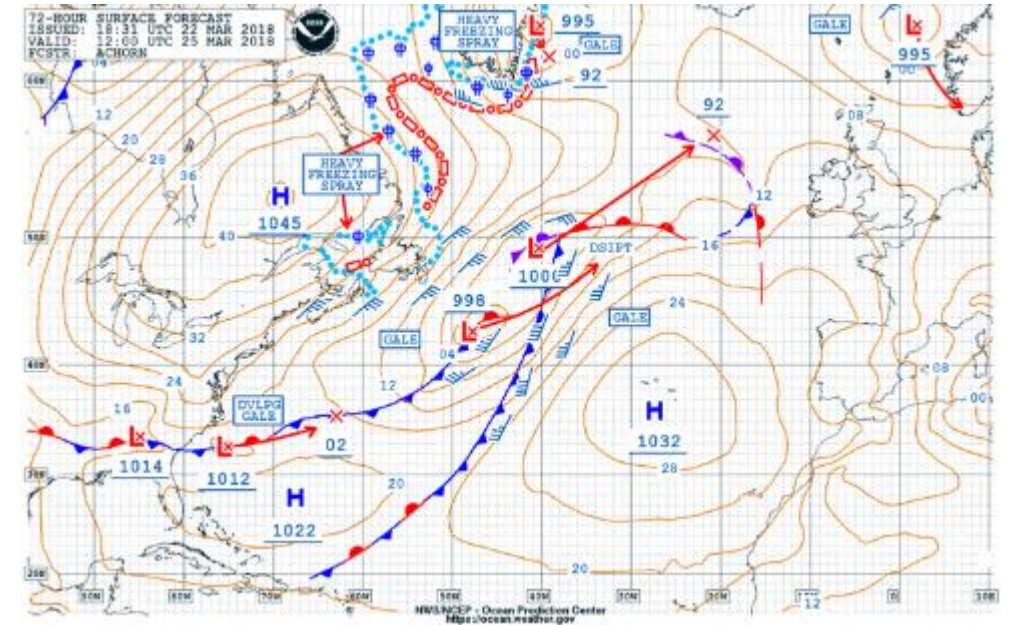


# Synoptic Forecast

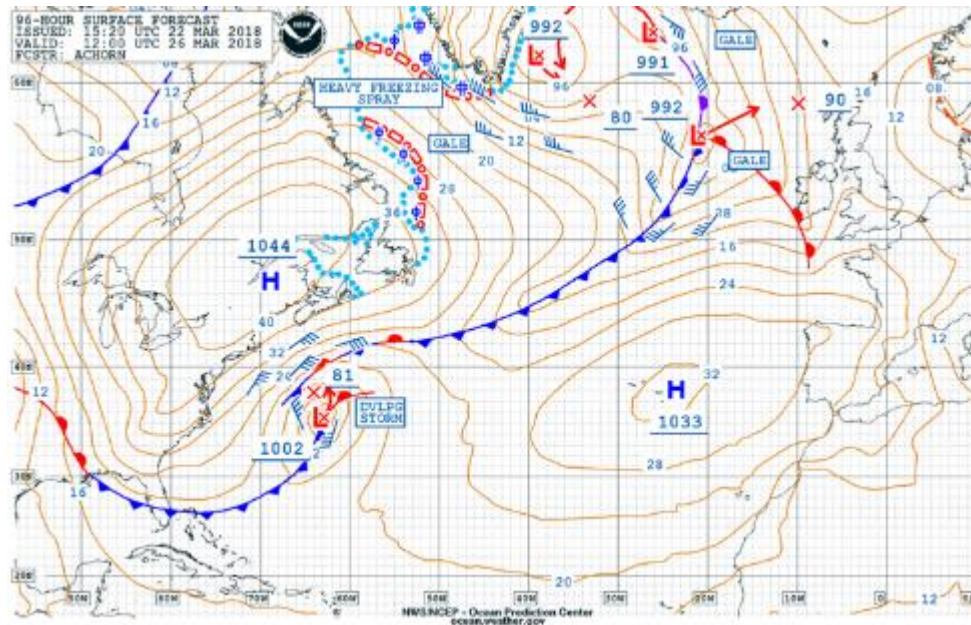
**Saturday 8pm EDT/ 9:30pm NDT/10pm Ship**



**Sunday 8am EDT/9:30am NDT/10am Ship**



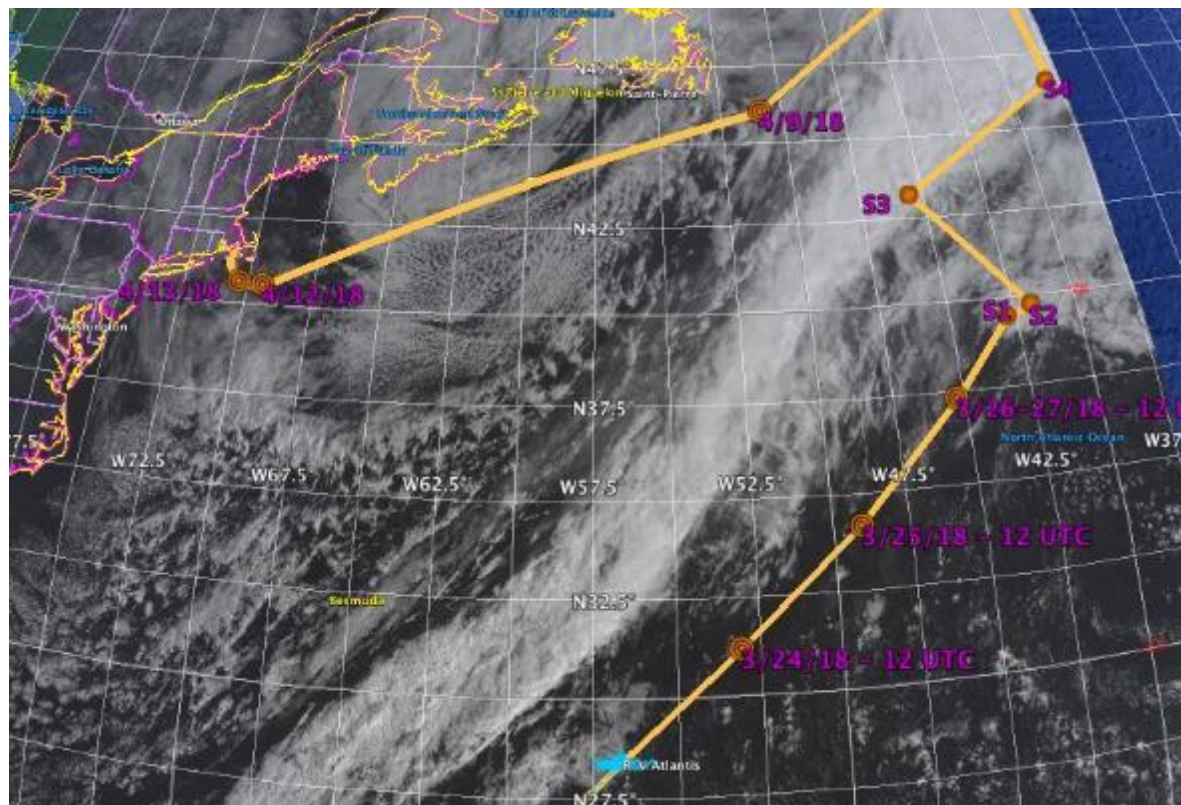
**Monday 8am EDT/9:30am NDT/10am Ship**



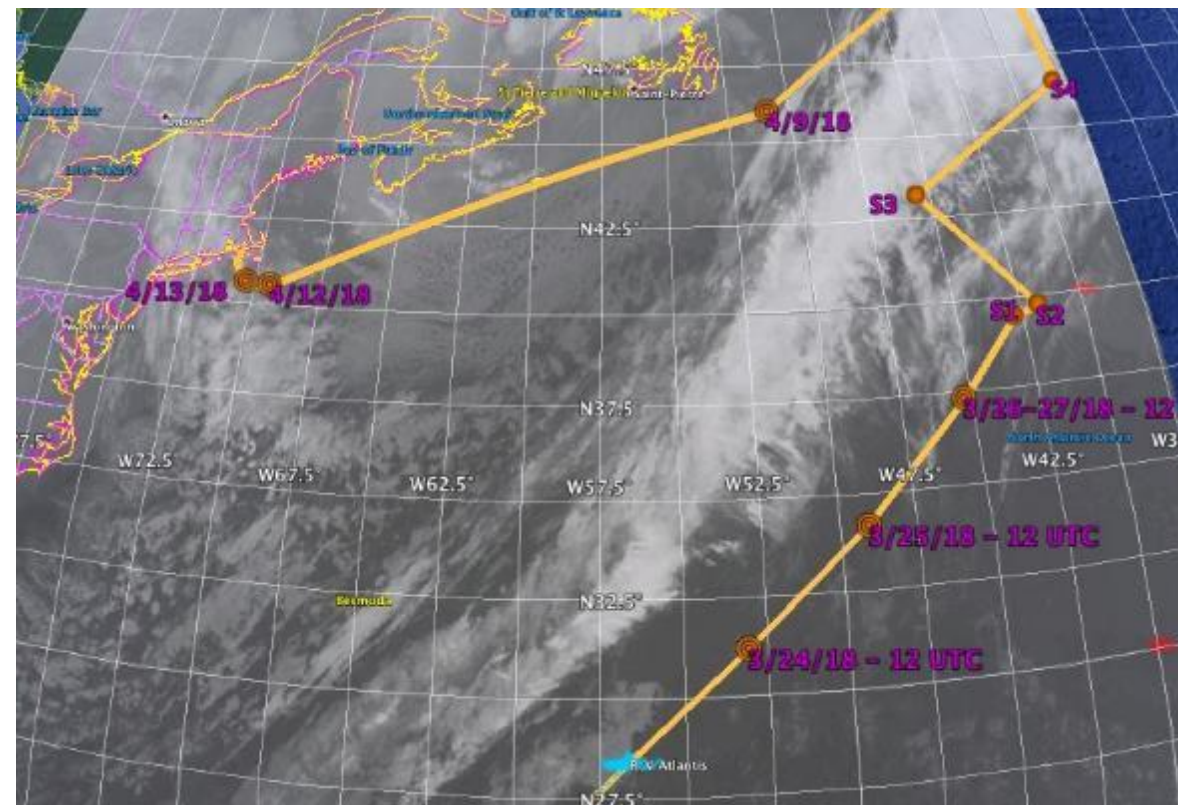


# GOES-16 Imagery (3/23 12:45 UTC)

Visible



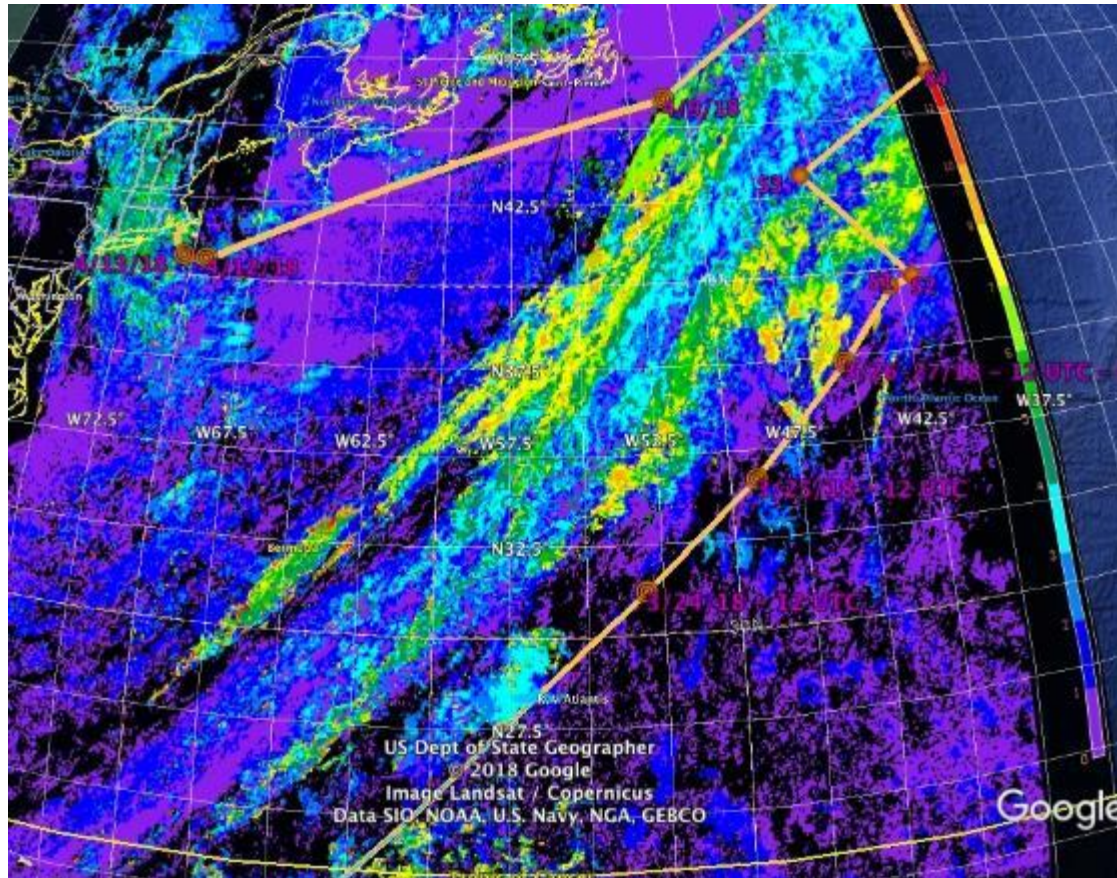
IR



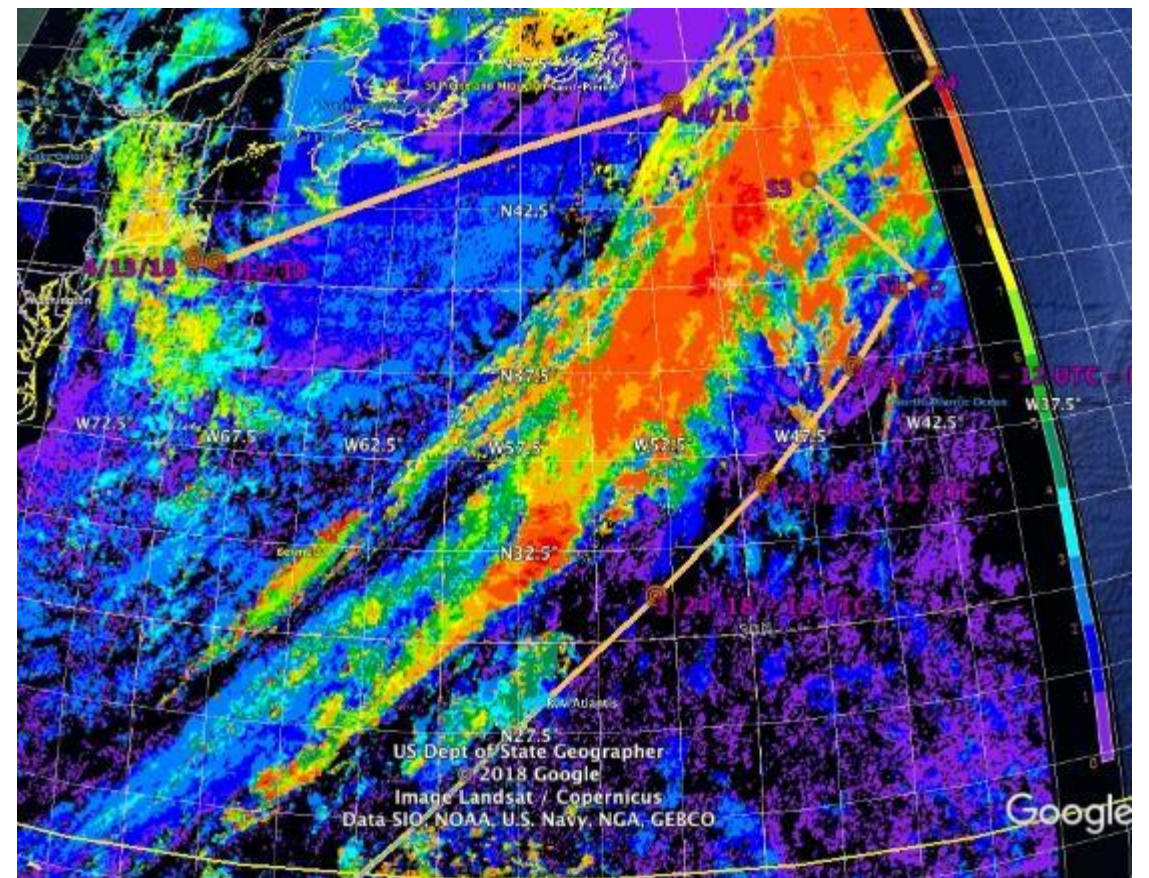


# GOES-16 Cloud Products (3/23 12:00 UTC)

Cloud Base Heights

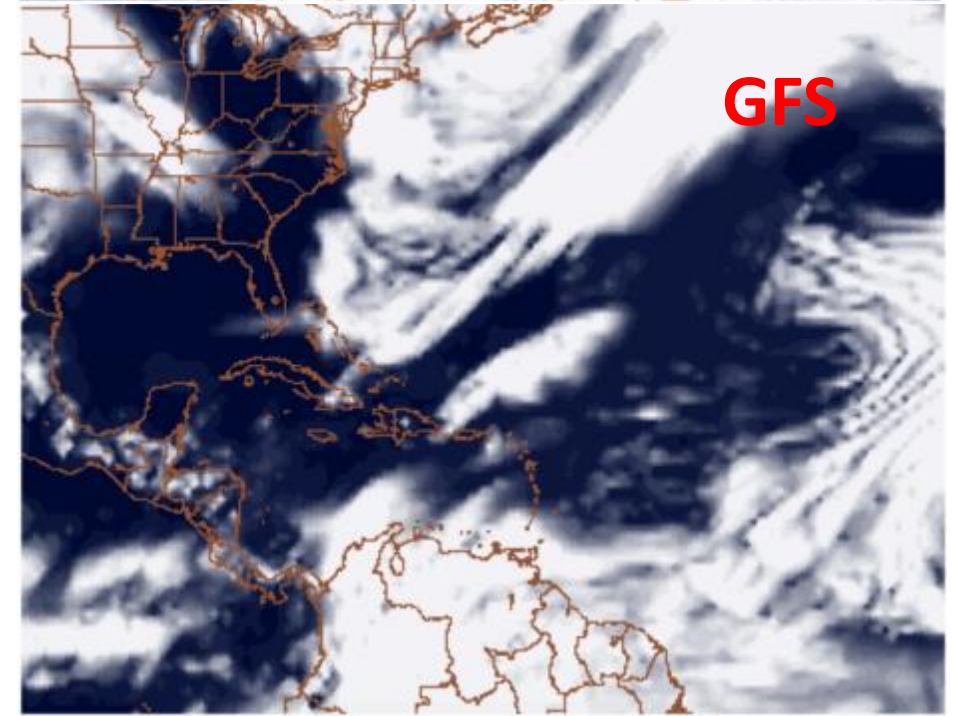
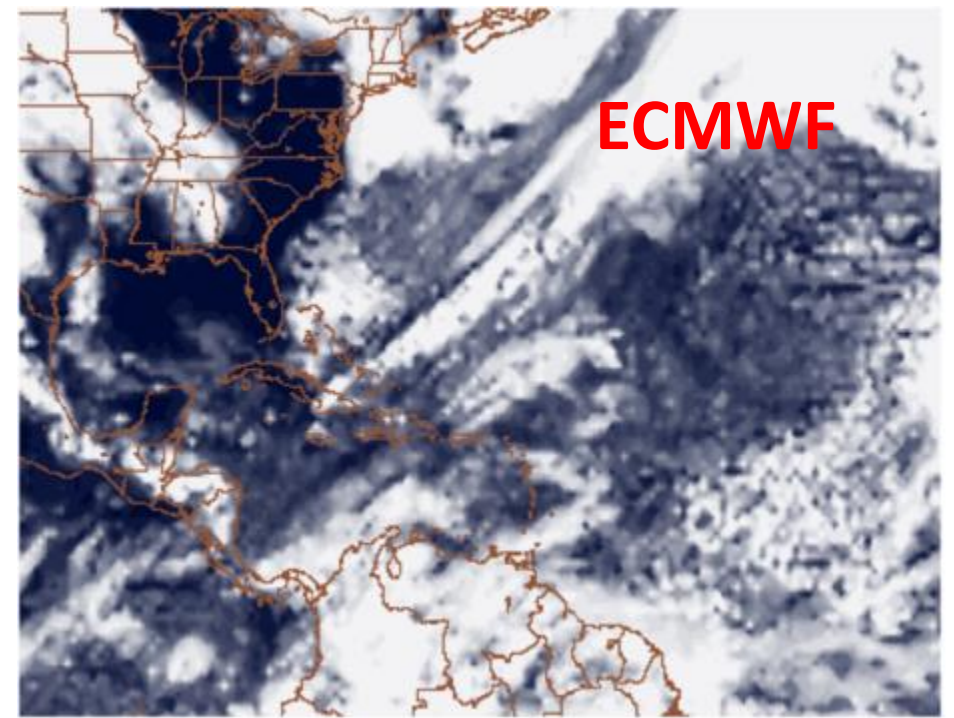
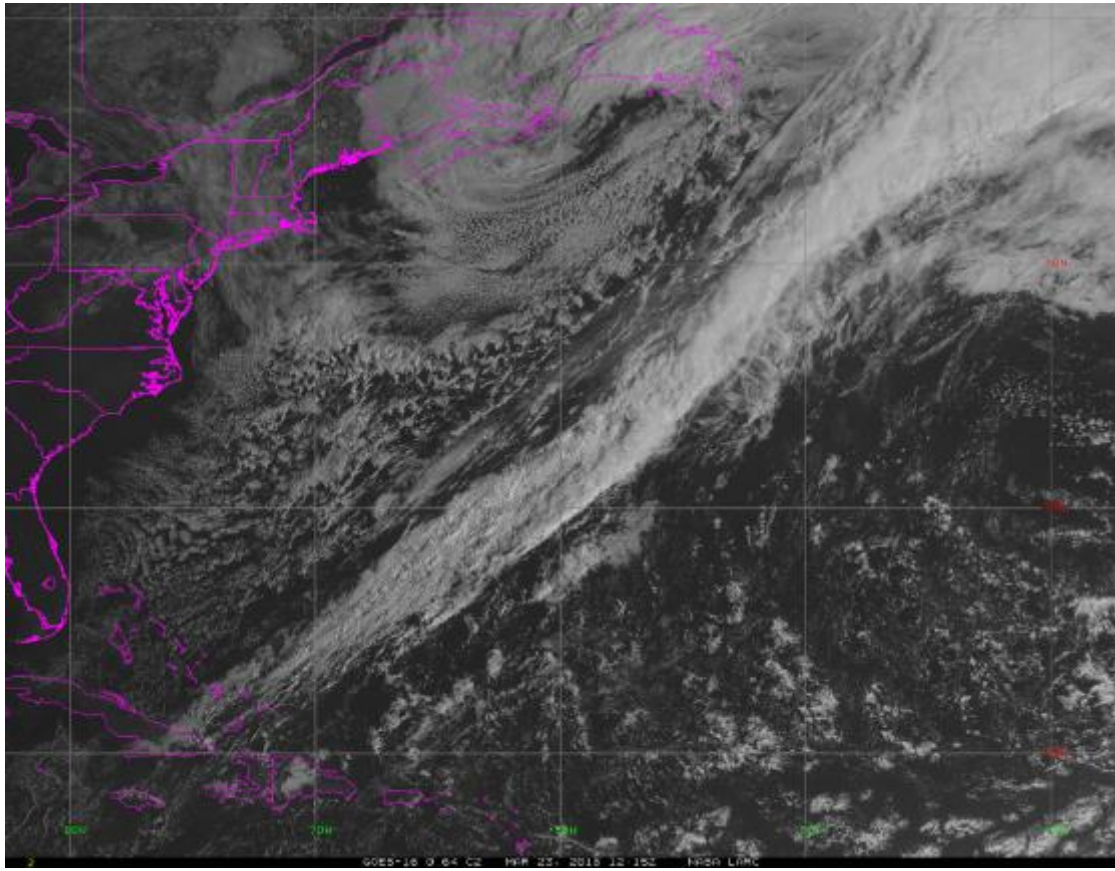


Cloud Top Heights



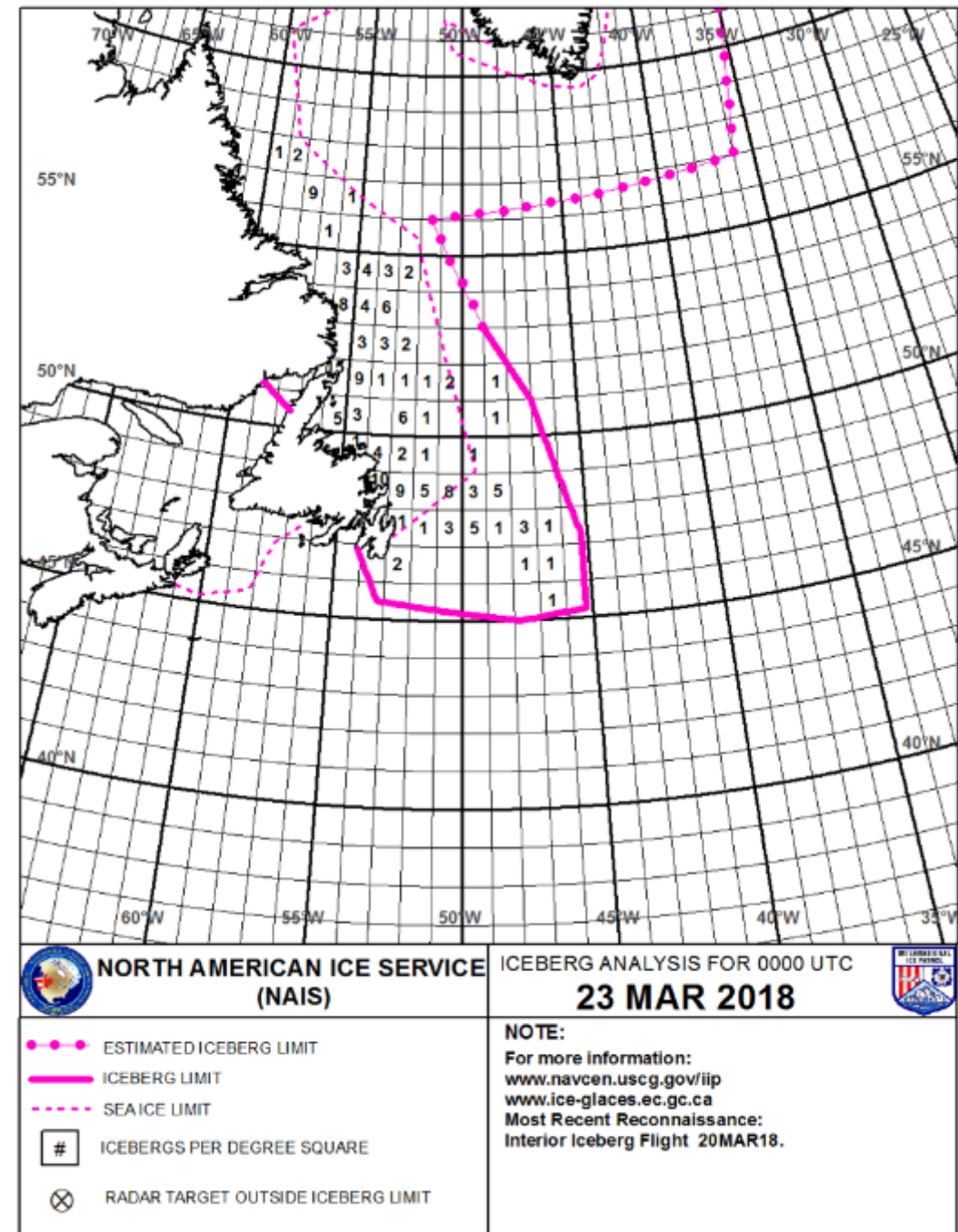


# Cloud Verification – 12:15z observed/12z 4cast



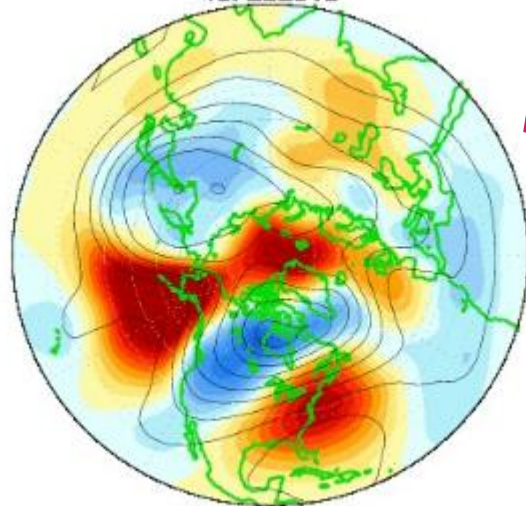


# Sea Ice and Icebergs

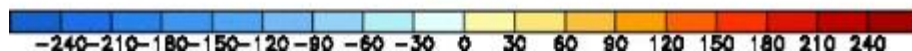


# Current NAO

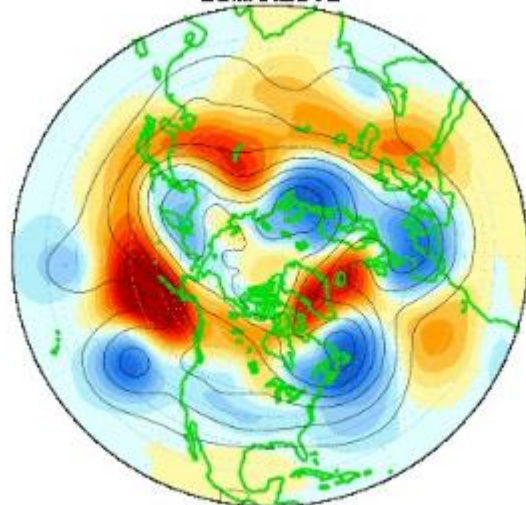
CDAS 500-hPa HT Anoms (5d rm)  
19FEB2018



Positive NAO



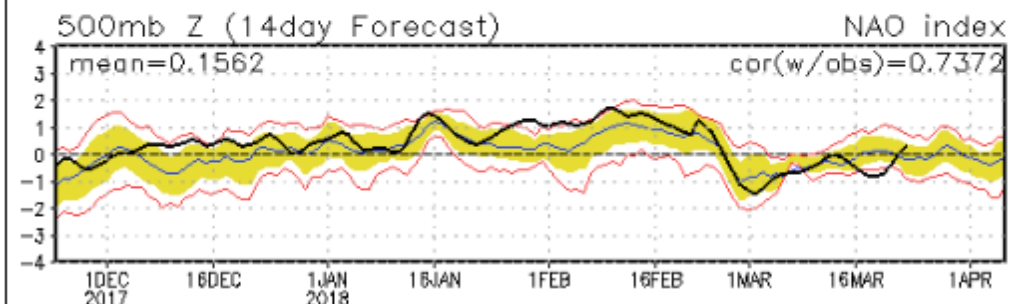
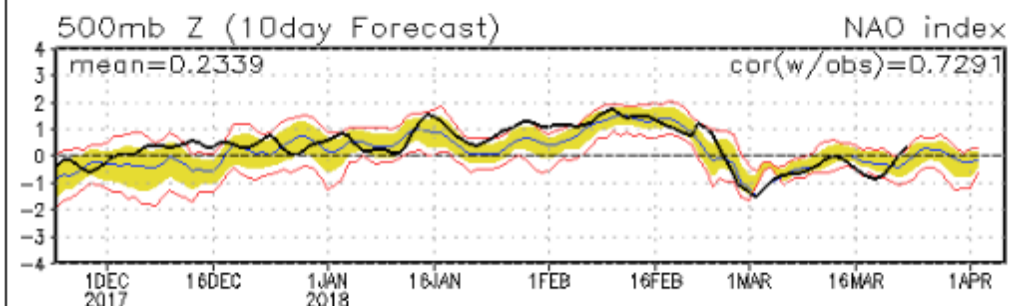
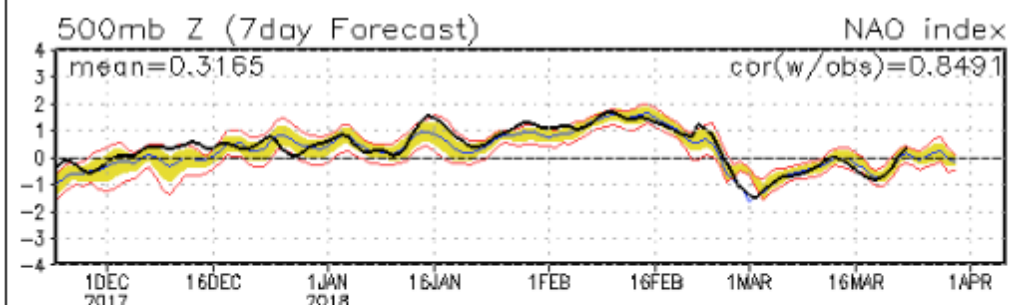
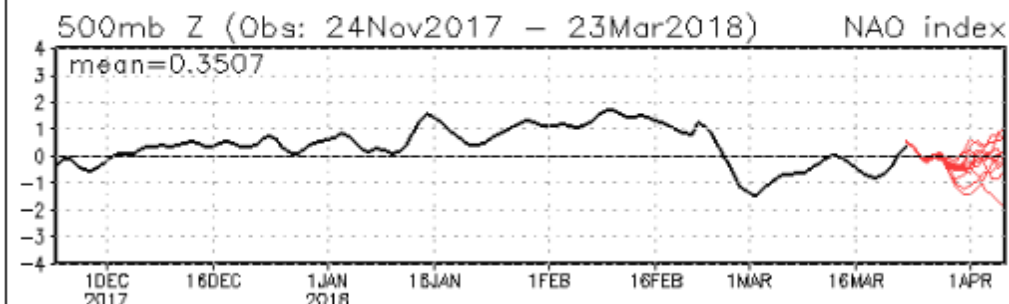
CDAS 500-hPa HT Anoms (5d rm)  
20MAR2018



Negative NAO



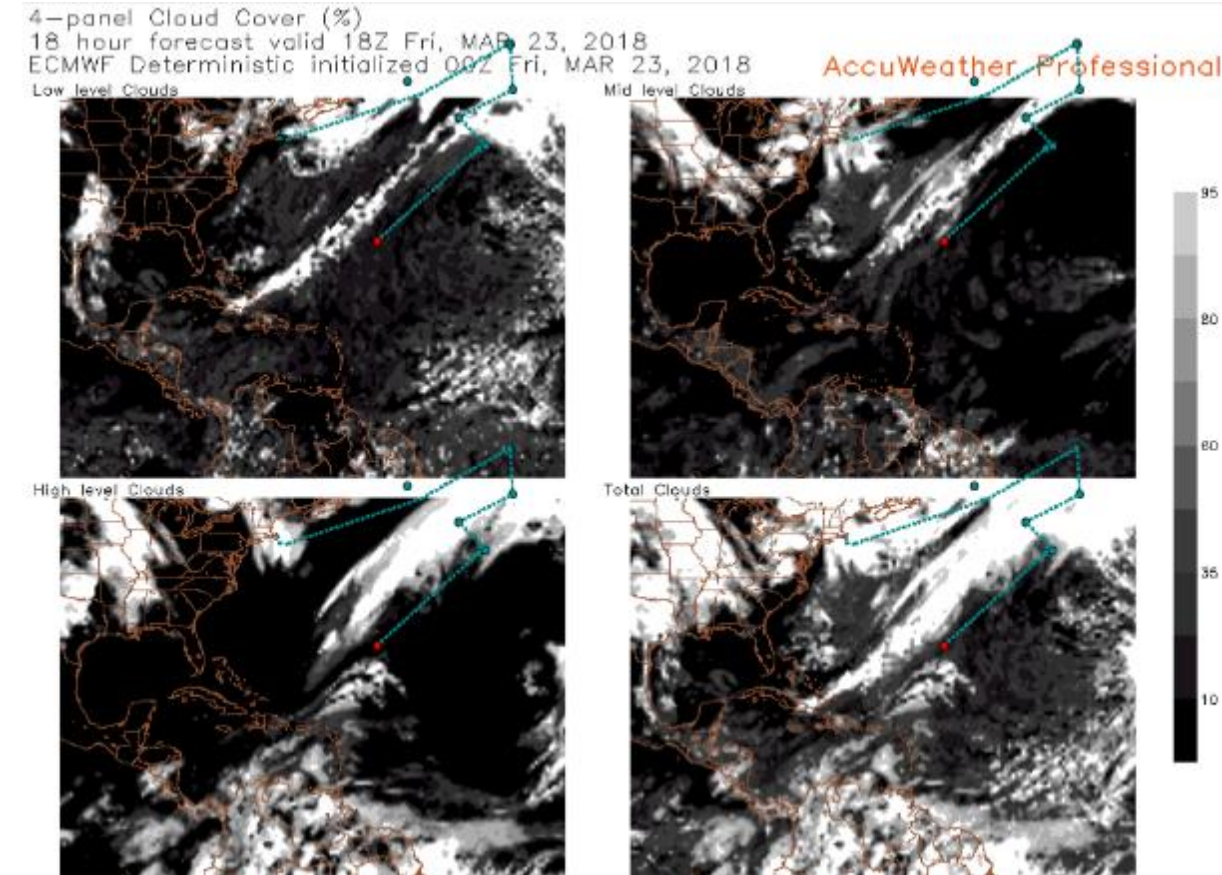
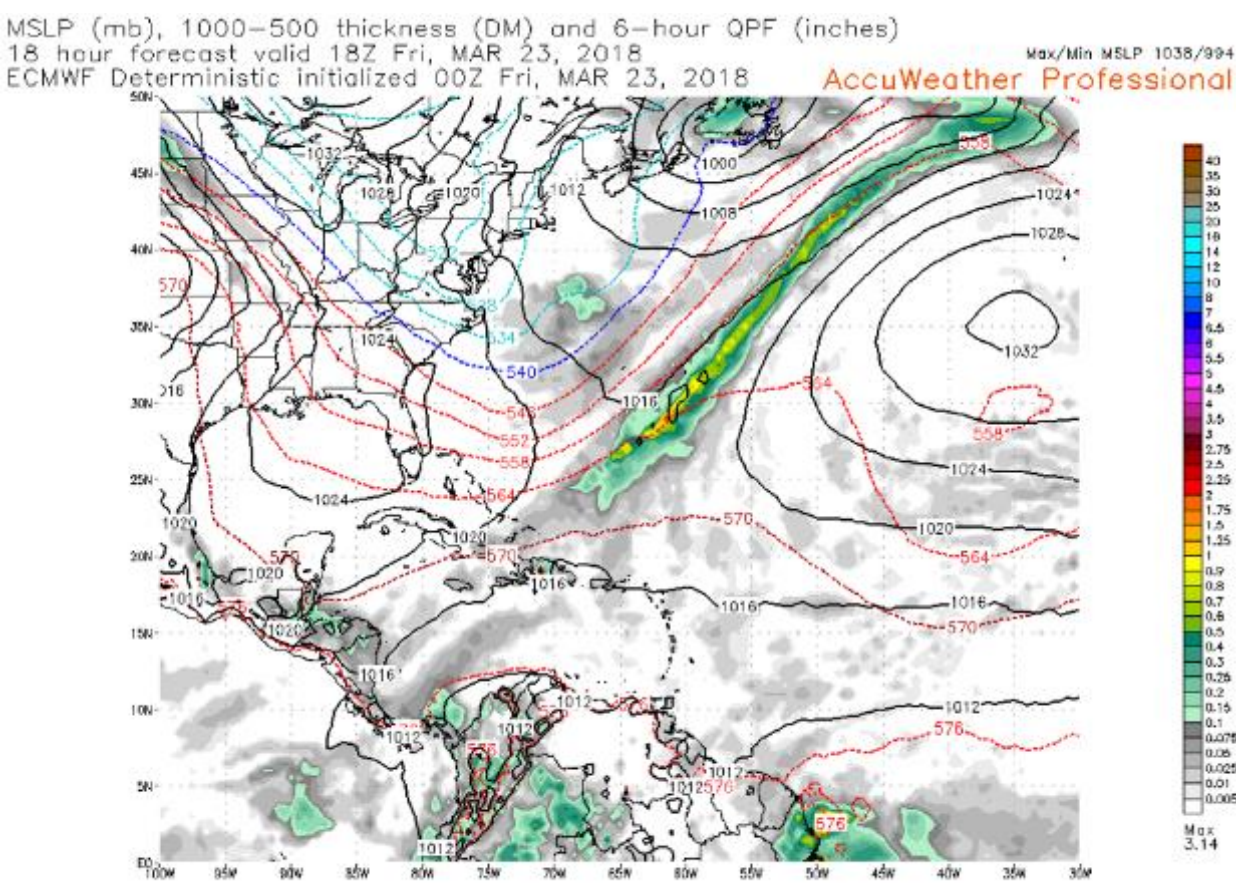
## NAO: Observed & ENSM forecasts





# 3/23/18 Transit Flight

Ship track for this afternoon/evening is still clear, maybe some high clouds near S1/S2, clouds at all levels over S3





# 3/26/18 Science Flight to Practice Station/CALIPSO

- Area near ship will be partly cloudy, primarily high clouds
- CALIPSO track will be cloudy, but there is a stretch with no high clouds, but low and mid clouds

