

# ATOMIC Briefing Summary

1/30/2020

# Summary

- Our main sources are:

<https://www.esrl.noaa.gov/psd/atomic/briefing/>

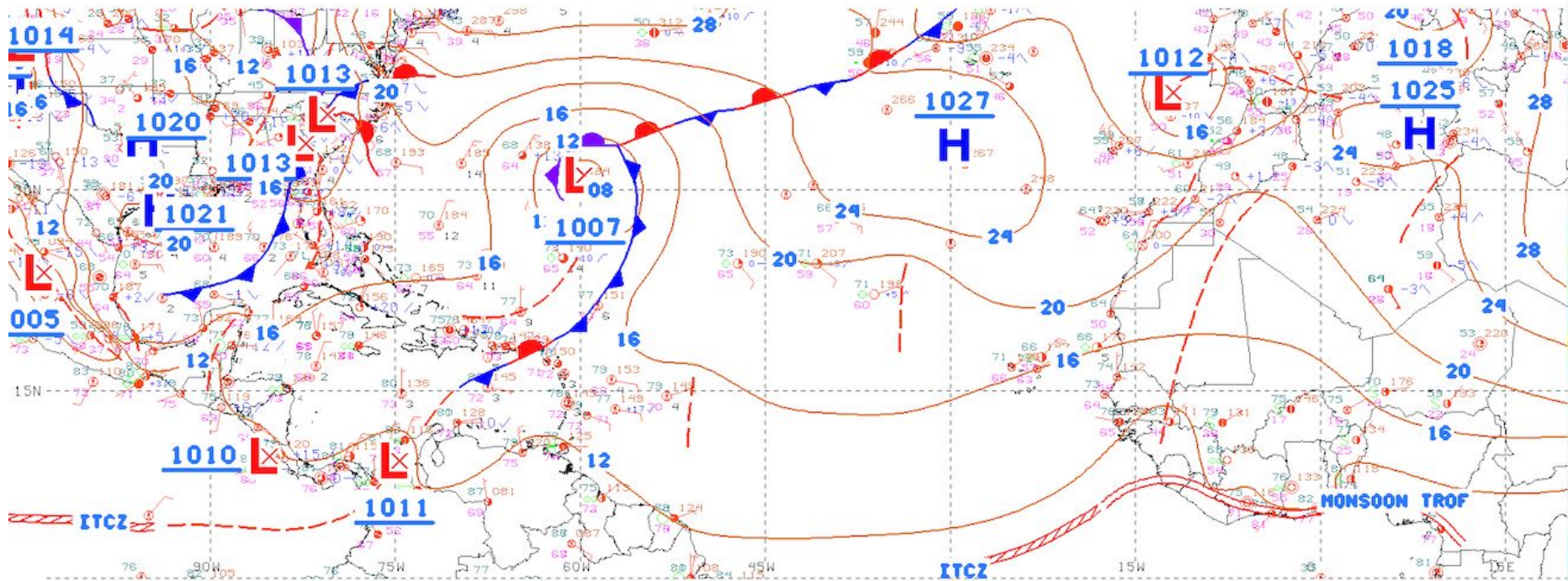
<https://observations.ipsl.fr/aeris/eurec4a/#/>

- Latest ATOMIC weather briefing from Caribbean forecasters can be found here:

[http://eurec4a.uk/forecast\\_testbed/](http://eurec4a.uk/forecast_testbed/)

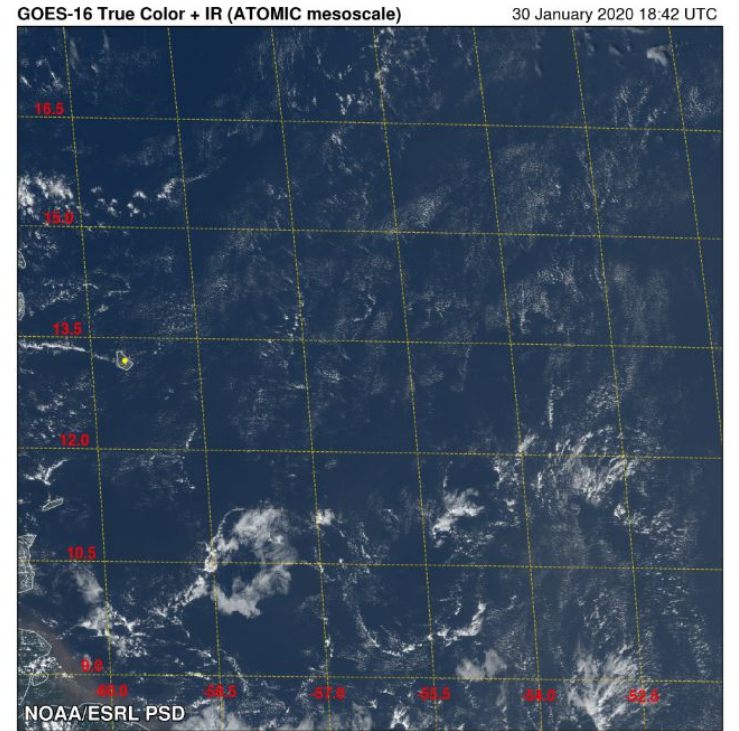
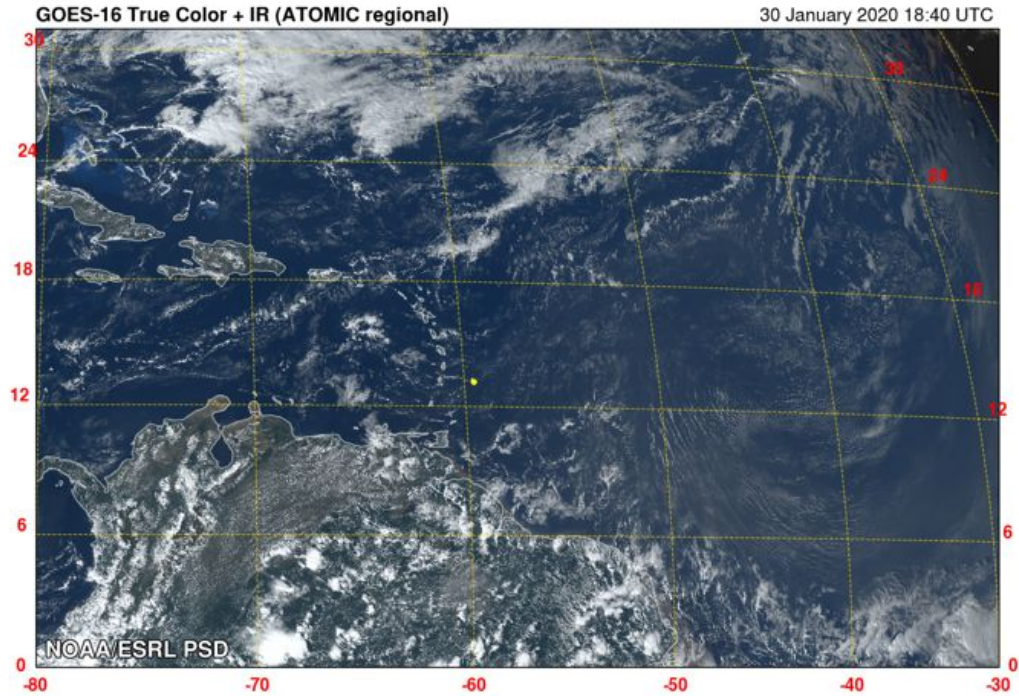
- Flight planning WX briefing here:

<https://observations.ipsl.fr/aeris/eurec4a-data/REPORTS/Wx/2020/20200130/Wx-0130.pdf>

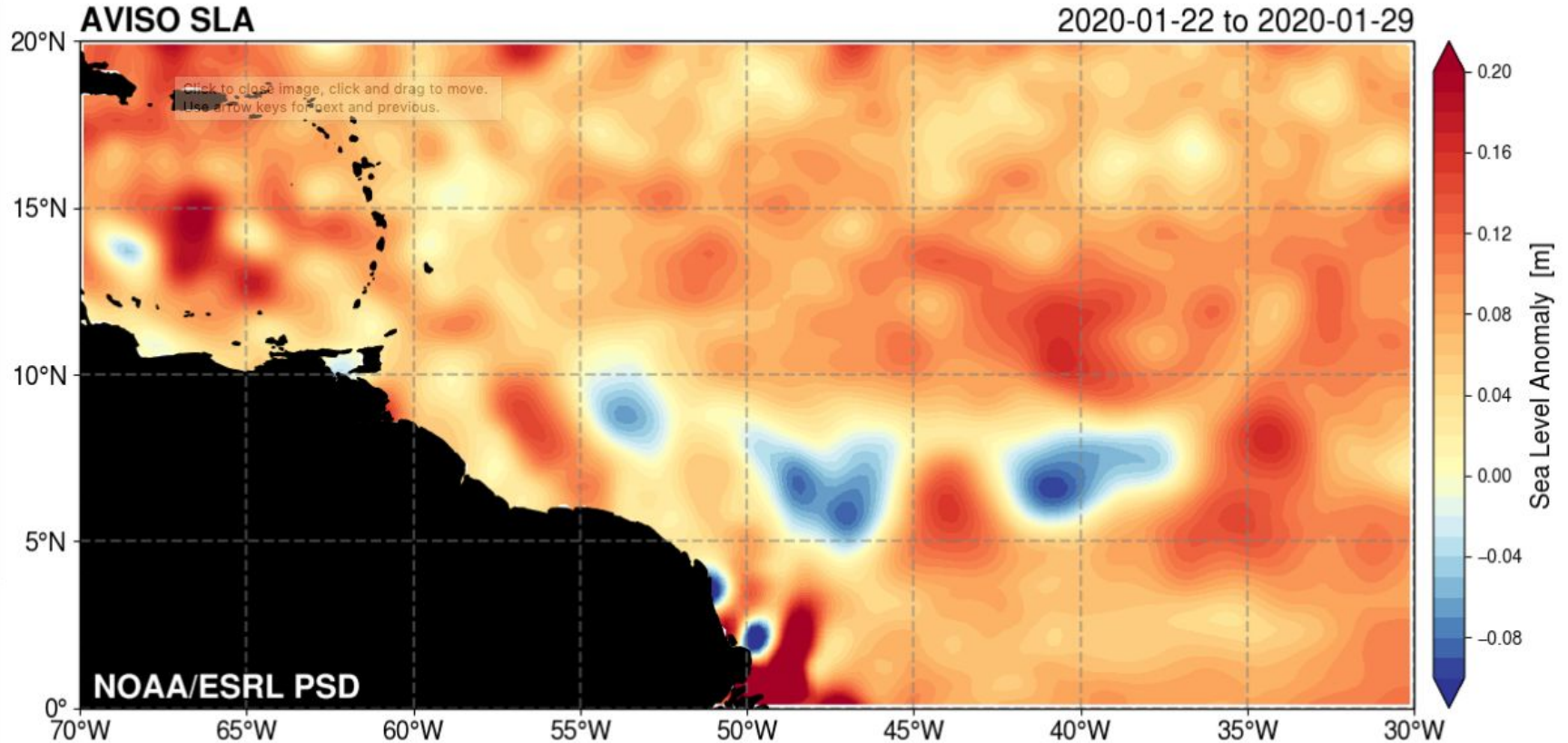


00 UTC JANUARY 25 2020 - NATIONAL WEATHER SERVICE

# Today's GOES-16



# SLA are now displayed in the briefing page...



# GFS and RHB soundings

<https://www.esrl.noaa.gov/psd/atomic/briefing/>

## Soundings with GFS Model Comparisons

Selected Platform:

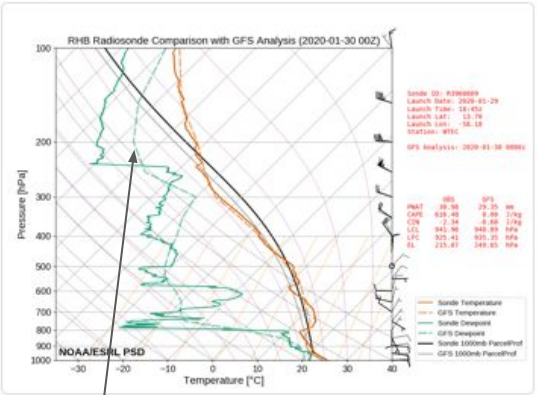
Ron Brown

Selected Sonde:

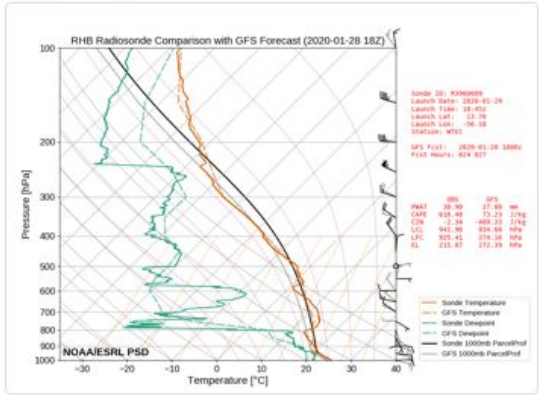
< Prev 2020-01-29 18:45 UTC

Next >

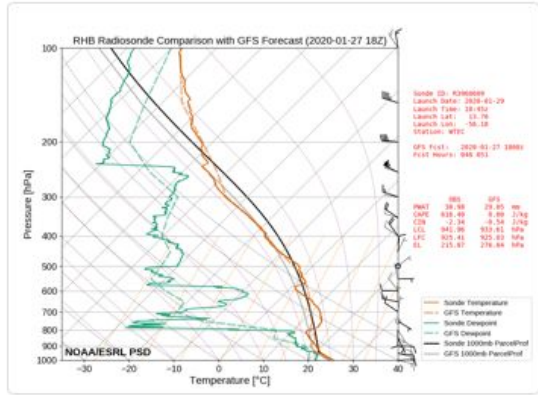
Analysis



~24 Hour Forecast



~48 Hour Forecast



The GFS analysis field is from the closest run time to the sounding time; the 24 & 48 hour forecast data are interpolated from the nearest times to the sounding time (see plot for exact times used). GFS vertical spacing is every 50 hPa.

GFS tends to be moister above 200hPa -> Zac will make this comparison for other platforms

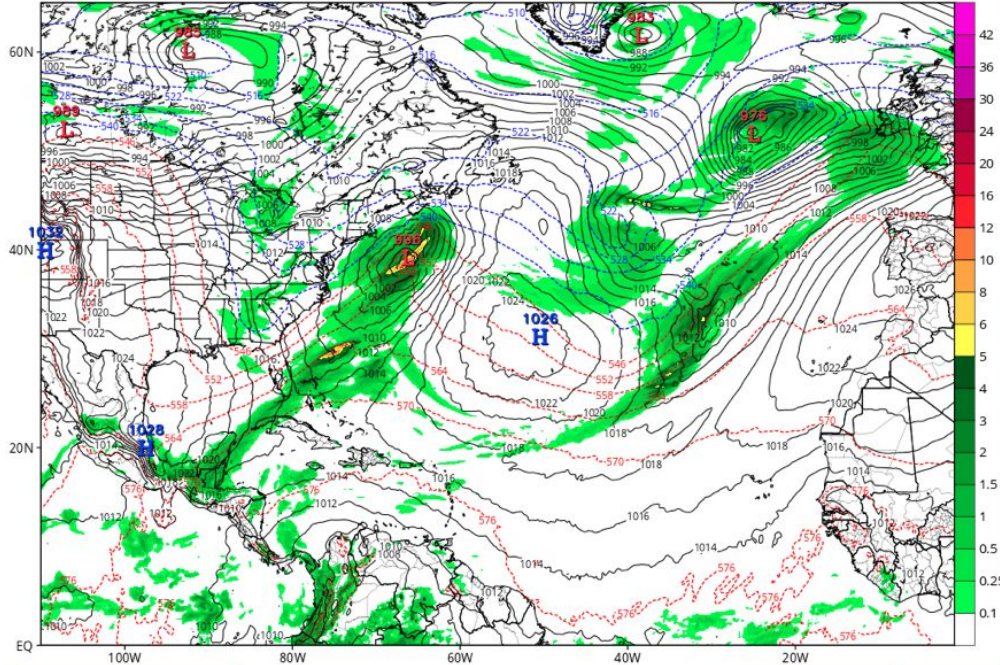
# GFS 3 day outlook

GFS

- Global
- Ensemble
- Hurricane
- Mesoscale
- Climate

← ▶ → - + ⚙️ 📱 12z Thursday, Jan 30 ⌵

GFS 6-hour Averaged Precip Rate (mm/hr), MSLP (hPa) & 1000-500mb Thickness (dam)  
 Init: 12z Jan 30 2020 Forecast Hour: [60] valid at 00z Sun, Feb 02 2020 TROPICALTIDBITS.COM



Forecast Hour: 60

006	012	018	024
030	036	042	048
054	060	066	072
078	084	090	096
102	108	114	120
126	132	138	144
150	156	162	168
174	180	186	192
198	204	210	216
222	228	234	240
246	252	258	264
270	276	282	288
294	300	306	312
318	324	330	336
342	348	354	360
366	372	378	384

[REGIONS](#) Prev. Run Next Run [FORECAST GIF](#) [TREND GIF](#)

# GFS 3 day outlook

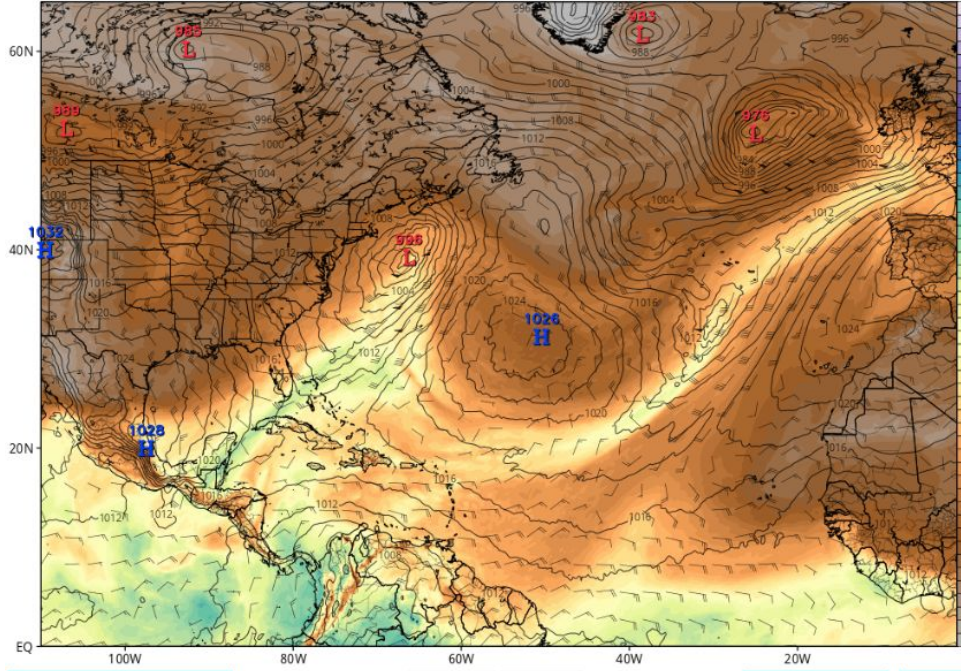
GFS

- Global
- Ensemble
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← ▶ → − + ⚙️ ☰ 12z Thursday, Jan 30 ⌵

GFS MSLP (mb), Total Precipitable Water (mm), and 850mb Wind (kt)  
 Init: 12z Jan 30 2020 Forecast Hour: [60] valid at 00z Sun, Feb 02 2020

TROPICALTIDBITS.COM



Forecast Hour: 60

-72	-66	-60	-54
-48	-42	-36	-30
-24	-18	-12	-06
000	006	012	018
024	030	036	042
048	054	060	066
072	078	084	090
096	102	108	114
120	126	132	138
144	150	156	162
168	174	180	186
192	198	204	210
216	222	228	234
240	246	252	258
264	270	276	282
288	294	300	306
312	318	324	330

REGIONS

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FORECAST GIF

TREND GIF



# GFS 3 day outlook

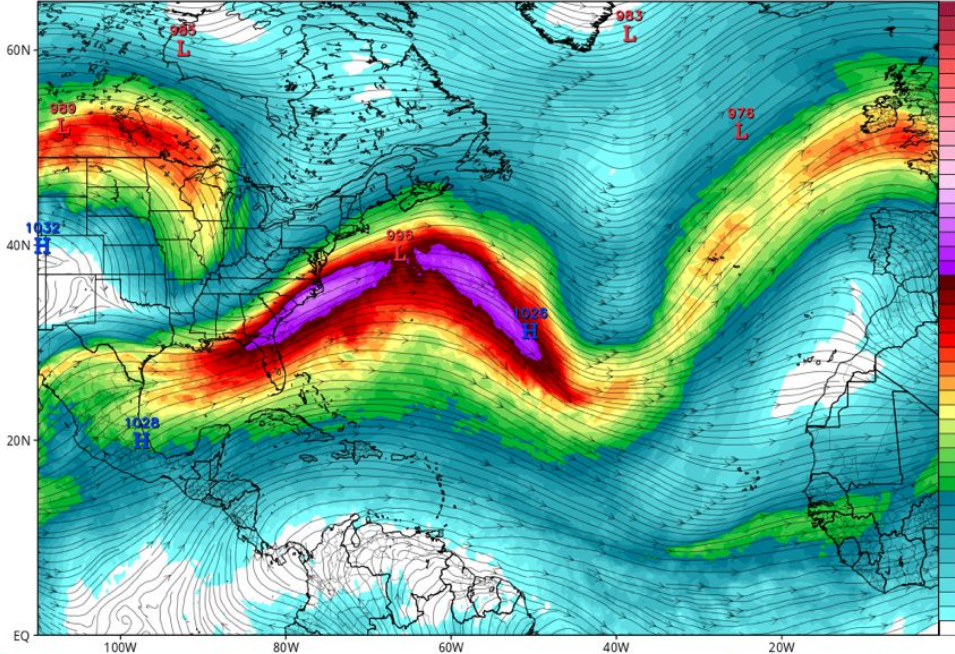
GFS
Global
Ensemble
Hurricane
Mesoscale
Climate

←
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📱
12z Thursday, Jan 30

GFS 200mb Wind Speed/Streamlines (kt) & MSLP Extrema (mb)  
 Init: 12z Jan 30 2020 Forecast Hour: [60] valid at 00z Sun, Feb 02 2020

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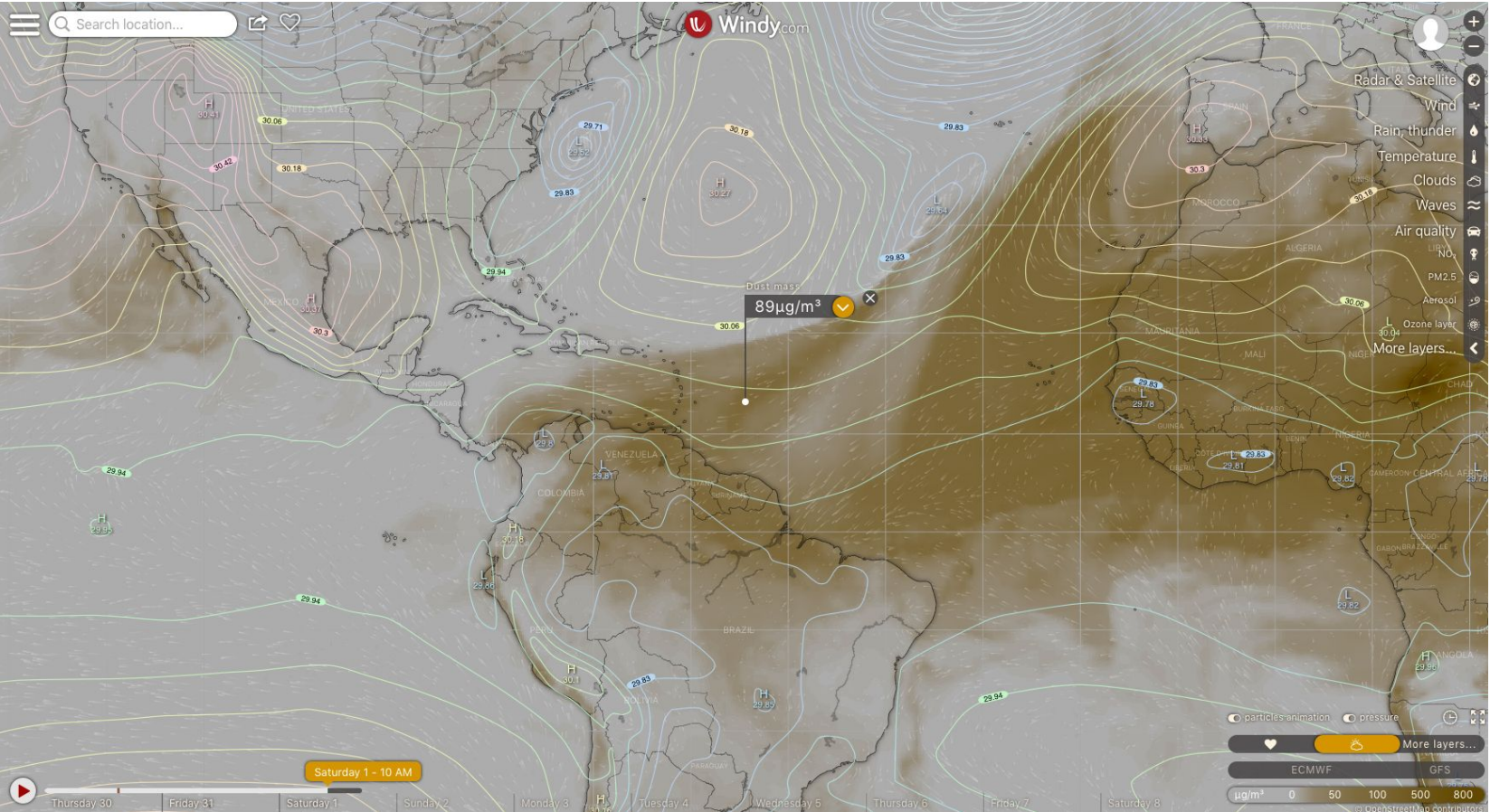
Forecast Hour: 60



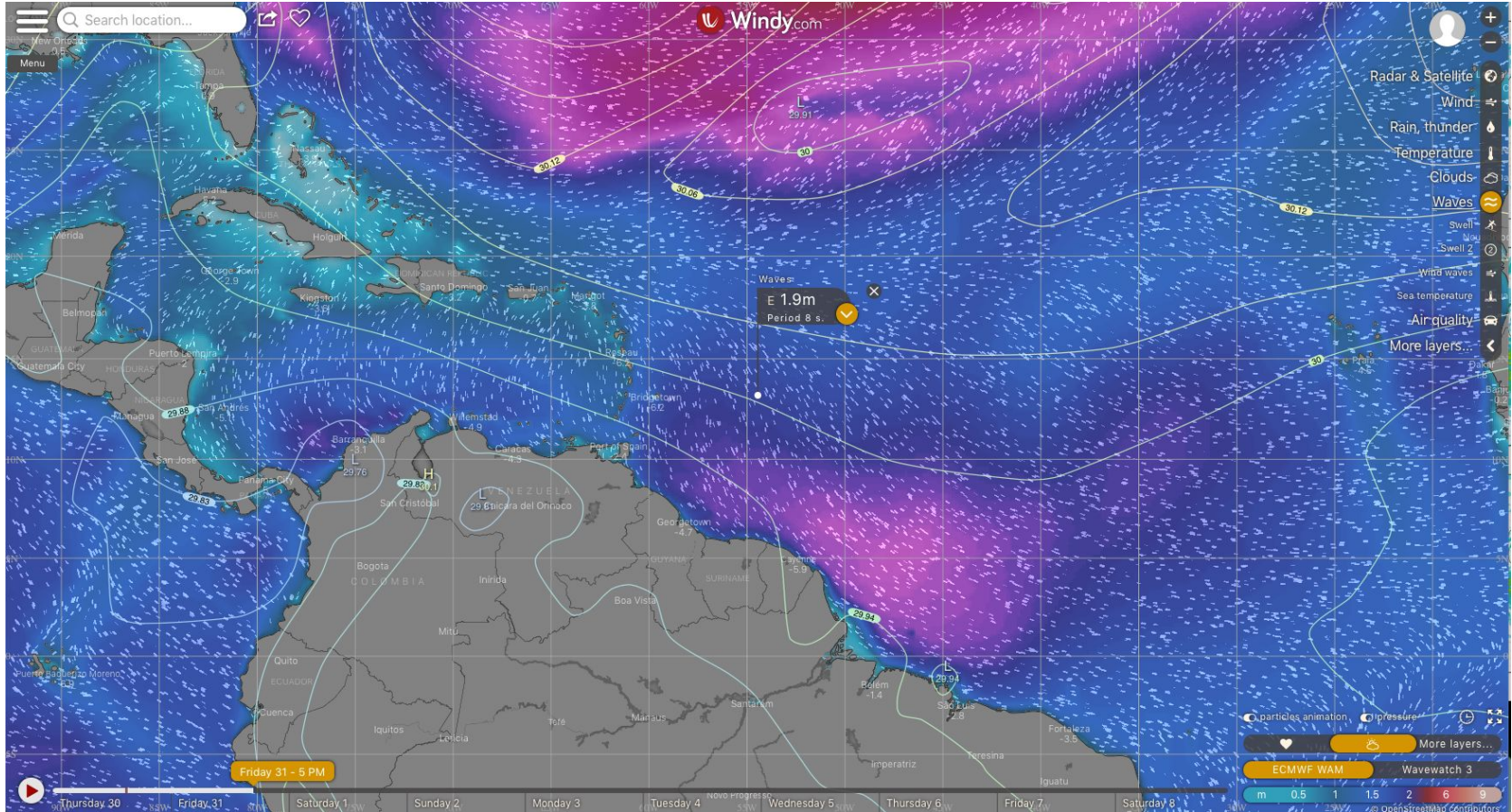
250	-72	-66	-60	-54
230	-48	-42	-36	-30
210	-24	-18	-12	-06
200	000	006	012	018
190	024	030	036	042
180	048	054	060	066
170	072	078	084	090
160	096	102	108	114
150	120	126	132	138
140	144	150	156	162
130	168	174	180	186
120	192	198	204	210
110	216	222	228	234
100	240	246	252	258
90	264	270	276	282
80	288	294	300	306
70	312	318	324	330

REGIONS
Prev. Run ←
Next Run →
FORECAST GIF
TREND GIF

# Dust mass forecast -> potential visibility issues?



# Waves forecast



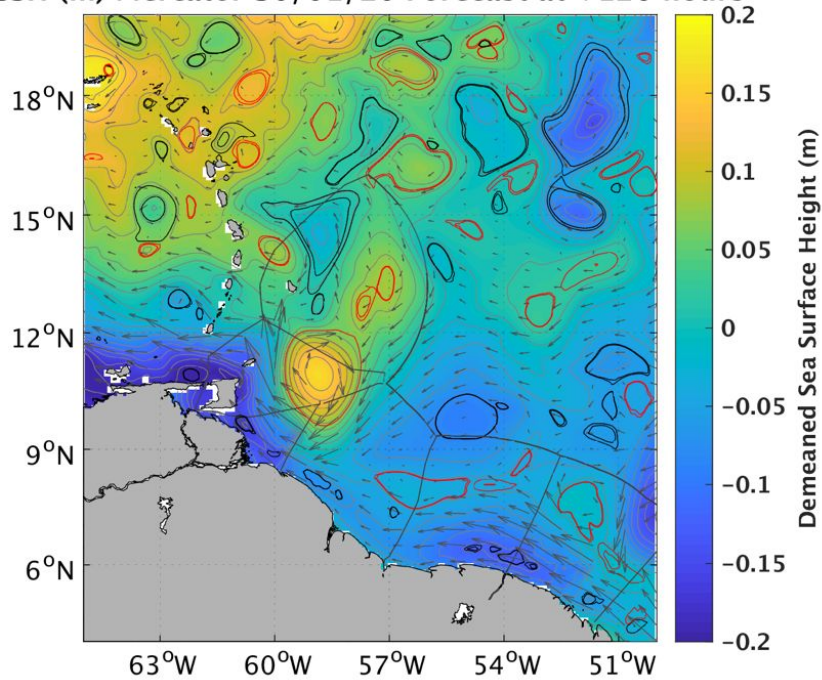
# Ocean Forecasts

Quicklook « Mercator Forecast Maps » « Sea Surface Height - TOEddies »

Date « Jan 30 2020 » 00h00 UTC »

Forecast date « 2020-02-04 00:00 » All Forecasts »

SSH (m) Mercator 30/01/20 Forecast at +120 hours



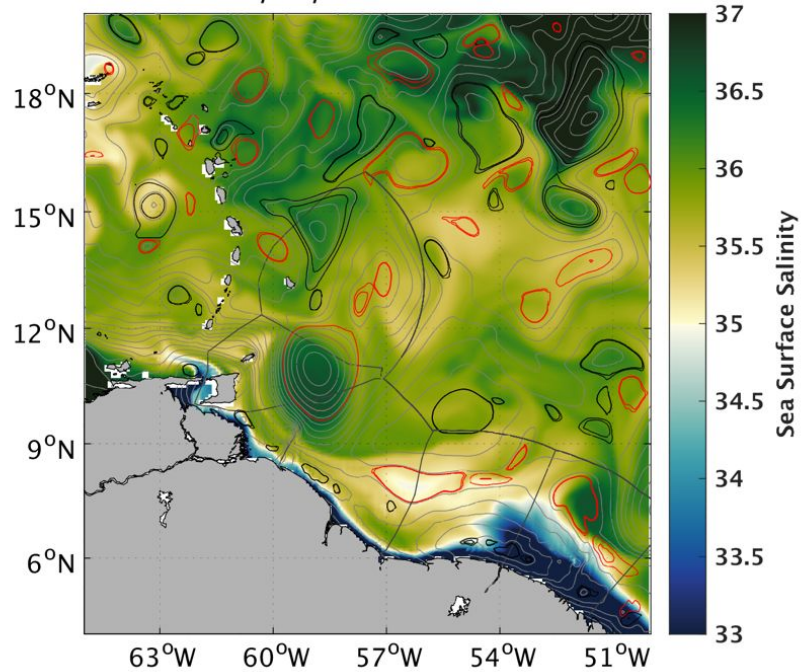
# Ocean Forecasts

Quicklook « Mercator Forecast Maps » « Sea Surface Salinity - TOEddies »

Date « Jan 30 2020 » 00h00 UTC »

Forecast date « 2020-02-04 00:00 » All Forecasts »

SSS Mercator 30/01/20 Forecast at +120 hours



# Ocean Forecasts

Quicklook « Mercator Forecast Maps » « Sea Surface Temperature - TOEddies »

Date « Jan 30 2020 » 00h00 UTC »

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SST (°C) Mercator 30/01/20 Forecast at +120 hours

