

Numerical simulations of the March 2018 extreme swell event

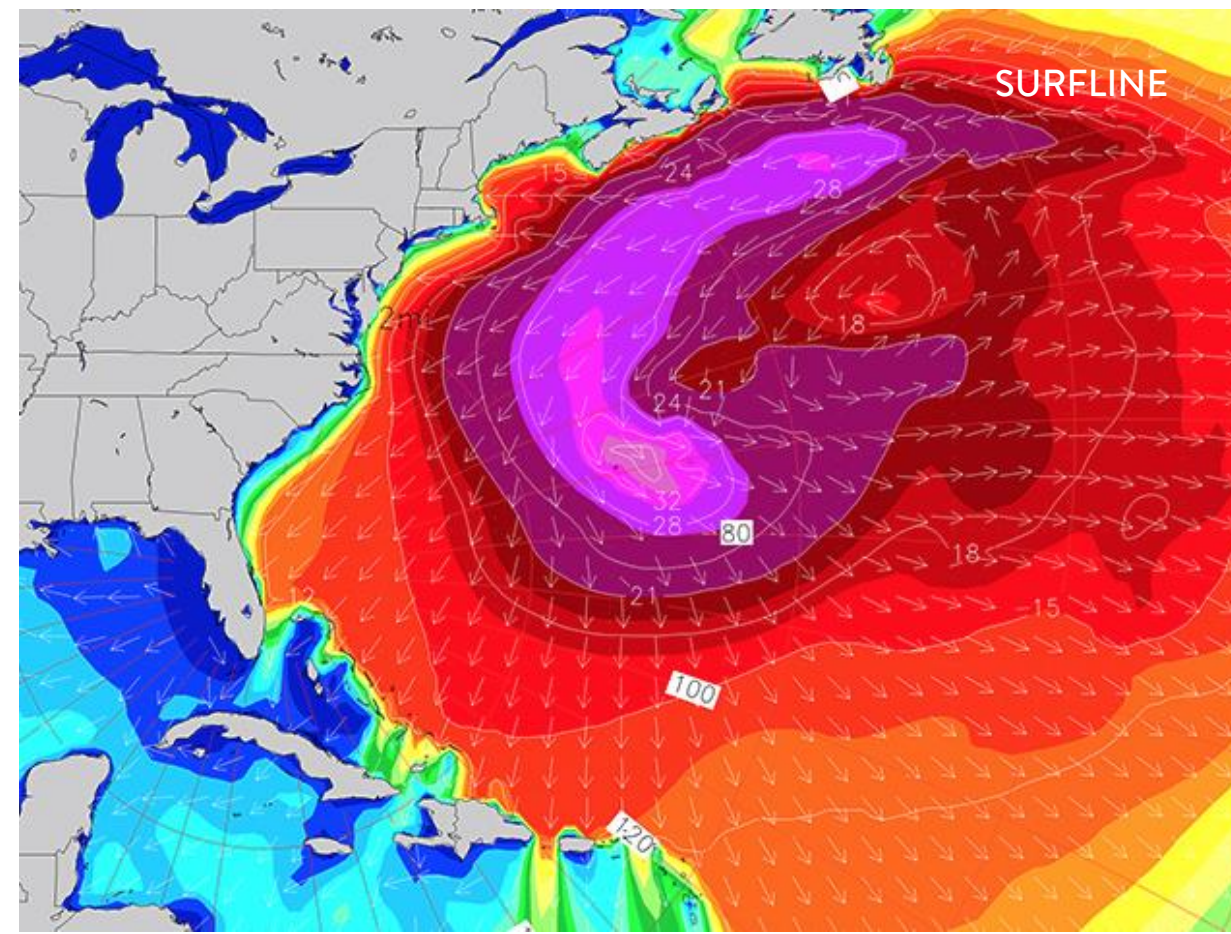
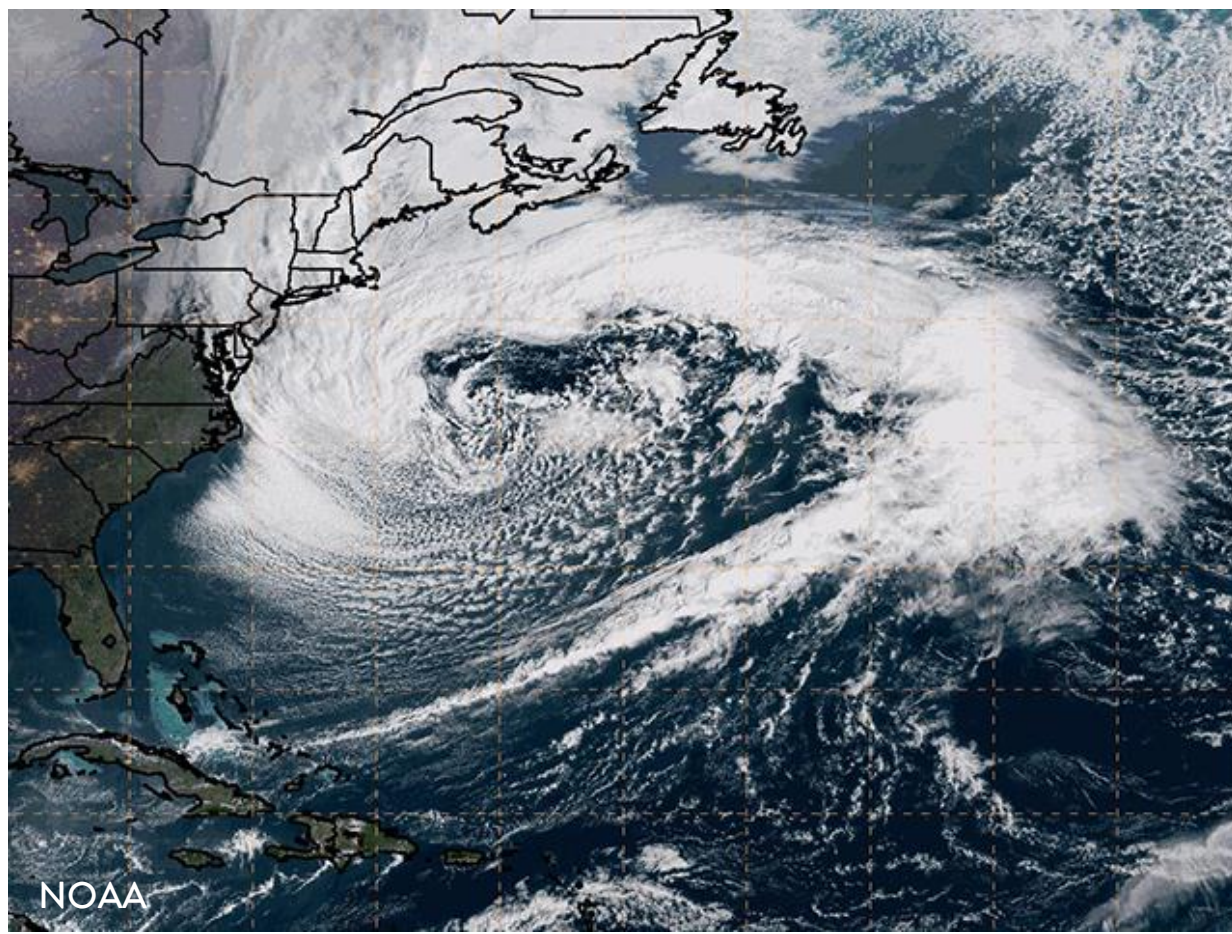


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STORM SIGNATURE



Tables courtesy of Patricia Chardón

MAXIMUM WAVE CONDITIONS DURING WINTER STORM RILEY AT SAN JUAN BUOY

DATE	MAXIMUM SIGNIFICANT WAVE HEIGHT	MAXIMUM WAVE HEIGHT	PEAK WAVE PERIOD	DOMINANT DIRECTION FROM
SUNDAY, MARCH 4, 2018	15.2 FT	29.5 FT	16.7 SEC	↙ NW
MONDAY, MARCH 5, 2018	15.8 FT	31.1 FT	14.3 SEC	↙ NW
TUESDAY, MARCH 6, 2018	13.7 FT	22.1 FT	15.4 SEC	↓ N
WEDNESDAY, MARCH 7, 2018	11.9 FT	23.1 FT	14.3 SEC	↓ N
THURSDAY, MARCH 8, 2018	11.1 FT	18.8 FT	13.3 SEC	↓ N
FRIDAY, MARCH 9, 2018	6.8 FT	12.3 FT	14.3 SEC	↓ N

MAXIMUM WAVE CONDITIONS DURING WINTER STORM RILEY AT RINCÓN BUOY

DATE	MAXIMUM SIGNIFICANT WAVE HEIGHT	MAXIMUM WAVE HEIGHT	PEAK WAVE PERIOD	DOMINANT DIRECTION FROM
SUNDAY, MARCH 4, 2018	17.9 FT	33.3 FT	16.7 SEC	↓ N
MONDAY, MARCH 5, 2018	17.7 FT	32.9 FT	16.7 SEC	↙ NW
TUESDAY, MARCH 6, 2018	14.7 FT	27.4 FT	15.4 SEC	↓ N
WEDNESDAY, MARCH 7, 2018	12.6 FT	23.5 FT	14.3 SEC	↓ N
THURSDAY, MARCH 8, 2018	11.7 FT	21.7 FT	14.3 SEC	↓ N
FRIDAY, MARCH 9, 2018	7.3 FT	13.6 FT	14.3 SEC	↓ N

SWELL IMPACTS



PIC: JOWEY LU

The following figures show maps of maximum wave height and maximum instantaneous wave power from the March 2018 swell. The wave power is computed taking into account water depth, wave period and significant wave height, and has units of kW per meter of wave crest.

