



Weekly Sargassum Inundation Risk (SIR v1.4)

By the National Oceanic and Atmospheric Administration (NOAA), and the University of South Florida (USF)

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Since 2011, large amounts of Sargassum is a recurrent problem in the Caribbean Sea, in the Gulf of America and tropical Atlantic. These events can cause significant economic, environmental and public health harm. These Sargassum Inundation Risk (SIR) fields provide an overview of the risk of sargassum coastal inundation in the Caribbean and Gulf of America regions. Using as core inputs the AFAI (Alternative Floating Algae Index) fields generated by the University of South Florida (USF), the algorithm analyses the AFAI values in the neighborhood (50 km) of each coastal pixel and, computing the difference between those values and a multiday baseline, classifies the risk into three categories: low (blue), medium (orange) and high (red). In black are areas with not enough data. The vectors in the images represent the geostrophic currents. SIR is the result of the collaboration between the Atlantic Oceanographic and Meteorological Laboratory (NOAA/AOML), NOAA/CoastWatch/OceanWatch, and USF. The methodology to compute these fields is under development and, therefore, these fields are pre-operational and to be used as a reference and for research purposes only.

