



Experimental Weekly Sargassum Inundation Risk (SIR v1.3)

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

Status: Nov 14-20, 2023

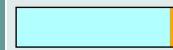
Since 2011, large amounts of Sargassum is a recurrent problem in the Caribbean Sea, in the Gulf of Mexico and tropical Atlantic. These events can cause significant economic, environmental and public health harm. These Sargassum Inundation Risk (SIR) fields provide an overview of the risk of sargassum coastal inundation in the Caribbean and Gulf of Mexico 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 experimental and to be used as a reference and for research purposes only.



% of shoreline
per risk level

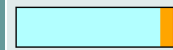
Gulf of Mexico

0 50 100



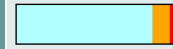
Greater Antilles

0 50 100



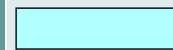
Lesser Antilles

0 50 100



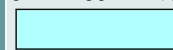
Central America

0 50 100



South America

0 50 100



Sargassum Inundation Risk

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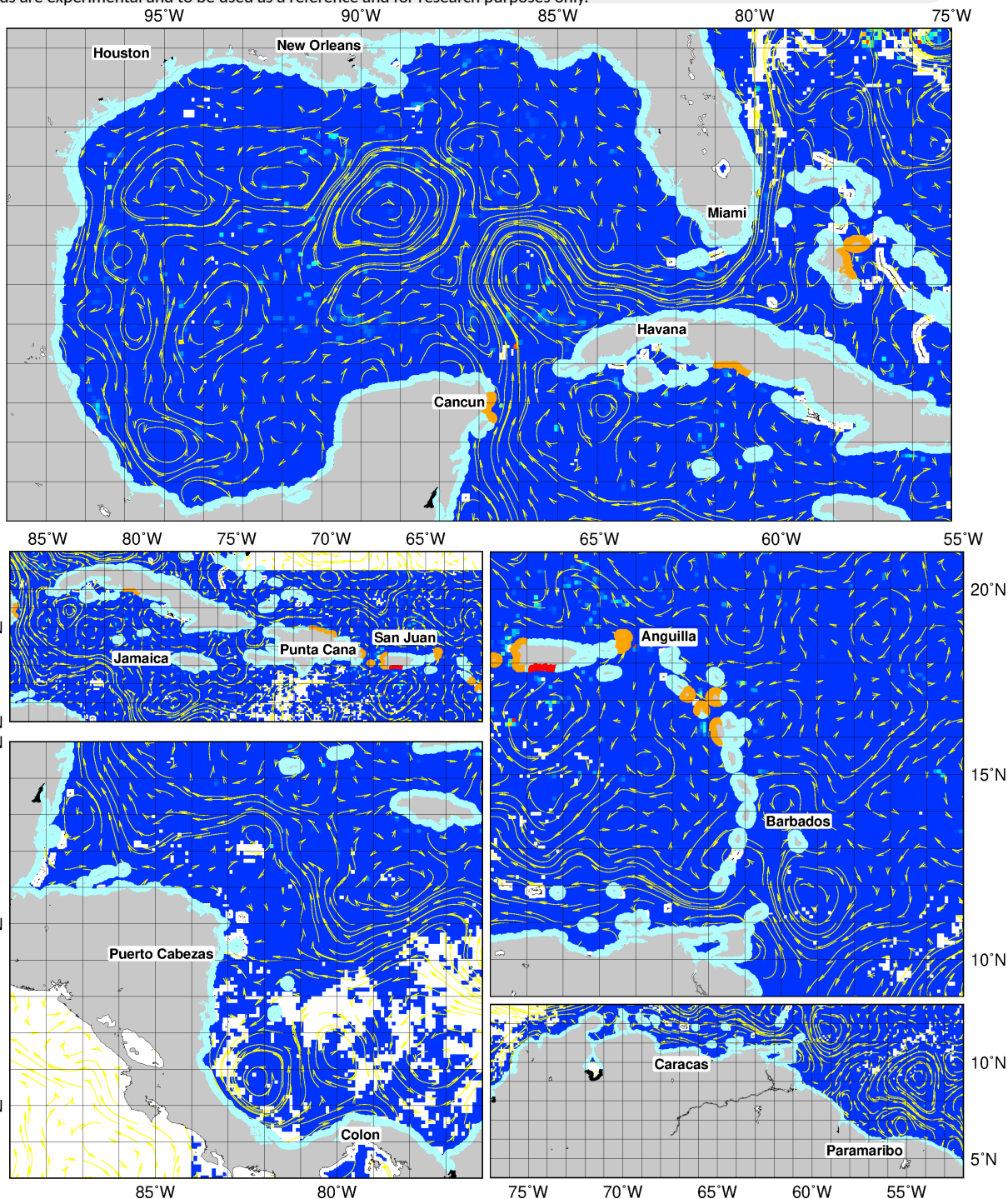
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References: [USF Sargassum Watch System](#) [Atlantic OceanWatch](#)

Disclaimer: This is an experimental product and still subject to validation by NOAA/AOML, NOAA/CoastWatch/OceanWatch, and USF.