2020 'Dead Zone' may remain four times larger than the goal established in 2001

10 June 2020

from the Mississippi River to the Gulf of Mexico has occurred in the last few decades.

The predicted hypoxic area is slightly smaller than the land area of New Hampshire and about 4 times the size of the Hypoxia Action Plan goal established in 2001. This estimate assumes that there are no significant tropical storms in the two weeks before the monitoring cruise or during the cruise. The estimate is made each year by LSU scientists Eugene Turner and Nancy Rabalais.

The report is posted at https://gulfhypoxia.net/research/shelfwide-cruise/?y=2020&p=hypoxia_fc.

More information: Gulf of Mexico Hypoxia: https://gulfhypoxia.net/

A recent forecast of the size of the "Dead Zone" in the northern Gulf of Mexico for late July 2020 is that it will cover 7,769 square-miles of the bottom of the continental shelf off Louisiana and Texas. The coronavirus pandemic has had no impact on the Gulf of Mexico dead zone. The unusually high Mississippi River discharge in May controls the size of this zone, which will likely be the 7th largest zone since systematic measurements began in 1985. The water mass with oxygen concentrations less than 2 parts per million forms in bottom waters each year primarily as a result of nitrogen and phosphorus loading from the Mississippi River watershed, which fertilizes the Gulf of Mexico's surface waters to create excessive amounts of algal biomass. The decomposition of this plant material in the bottom layer leads to oxygen loss.

The low oxygen conditions in the gulf's most productive waters stresses organisms and may even cause their death, threatening living resources, including fish, shrimp and crabs caught there. Low oxygen conditions started to appear 50 years ago when agricultural practices intensified in the Midwest. No reductions in the nitrate loading

Provided by Louisiana State University
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