

Water Quality Trends Workgroup

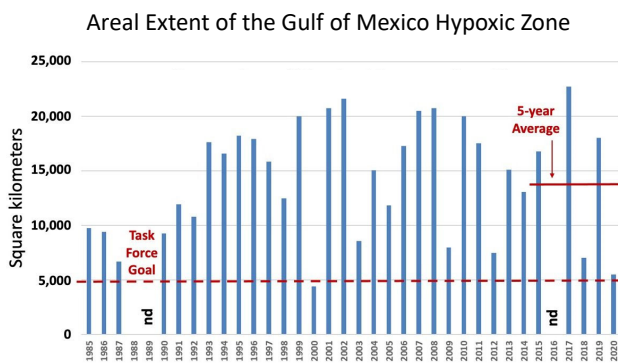
Lori Sprague, U.S. Geological Survey (co-chair)
 Whitney King, U.S. Environmental Protection Agency (co-chair)
 Katie Mann, Arkansas Department of Agriculture
 Julie Harrold, Indiana State Department of Agriculture
 Adam Schnieders, Iowa Department of Natural Resources
 Angelina Freeman, Louisiana Coastal Protection and Restoration Authority
 Dave Wall, Minnesota Pollution Control Agency
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 Michael Shupryt, Wisconsin Department of Natural Resources
 Shawn Giblin, Wisconsin Department of Natural Resources
 Lauren Salvato, Upper Mississippi River Basin Association
 Doug Daigle, Lower Mississippi River Sub-basin Committee
 Richard Mitchell, U.S. Environmental Protection Agency
 Katie Flahive, U.S. Environmental Protection Agency
 Tom Wall, U.S. Environmental Protection Agency

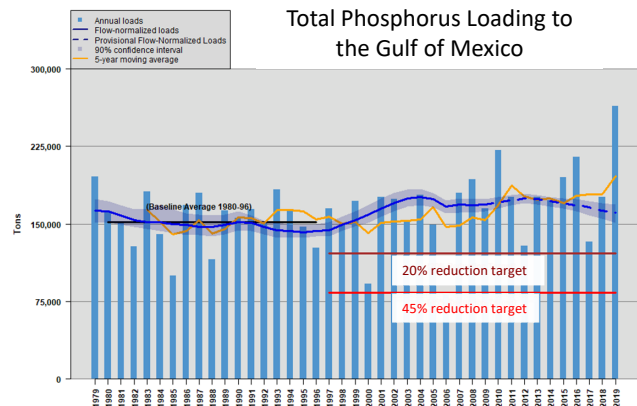
Lori Sprague, U.S. Geological Survey
 Mississippi River/Gulf of Mexico Hypoxia Task Force Meeting
 December 2021



Current Metrics Used by the Hypoxia Task Force (HTF)



Bottom area of dissolved oxygen ≤ 2 mg/L. Source: Dr. Nancy Rabalais (Louisiana Universities Marine Consortium) and Dr. Eugene Turner (Louisiana State University). <https://gulphypoxia.net/research/shelfwide-cruises/>



Source: U.S. Geological Survey, <http://nrtwq.usgs.gov/mwqn/#?GULF>



New HTF metrics

To increase awareness of nutrient reduction efforts upstream in the Mississippi River Basin, the HTF is considering new metrics to complement current metrics

1. Point source reduction efforts
2. Nonpoint source reduction efforts
3. Water quality trends within the basin



Partnership with the National Great Rivers Research and Education Center

Status

- Monitoring sites with required data have been identified
- Key subset of sites are being identified for review with States

Follow up with Hypoxia Task Force for further consideration

- Visuals, storyline, and dashboard for displaying trend results
- Evaluation of any differences with trend analyses performed by States and other member organizations

