



## **Hypoxia in the Northern Gulf of Mexico (Springer Series on Environmental Management)**

*Virginia H. Dale, Catherine L. Kling, Judith L. Meyer, James Sanders, Holly Stallworth, Thomas Armitage, David Wangsness, Thomas Bianchi, Alan Blumberg, Walter Boynton, Daniel J. Conley, William Crumpton, Mark David, Denis Gilbert, Robert Howarth, Richard Lowrance, Kyle Mankin, James Opaluch, Hans Paerl, Kenneth Reckhow, Andrew N. Sharpley, Thomas W. Simpson, Clifford S. Snyder, Donelson Wright*

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Since 1985, scientists have been documenting a hypoxic zone in the Gulf of Mexico each year. The hypoxic zone, an area of low dissolved oxygen that cannot support marine life, generally manifests itself in the spring. Since marine species either die or flee the hypoxic zone, the spread of hypoxia reduces the available habitat for marine species, which are important for the ecosystem as well as commercial and recreational fishing in the Gulf. Since 2001, the hypoxic zone has averaged 216,500 km<sup>2</sup> during its peak summer months, an area slightly larger than the state of Connecticut, and ranged from a low of 8,500 km<sup>2</sup> to a high of 22,000 km<sup>2</sup>. To address the hypoxia problem, the Mississippi River/Gulf of Mexico Watershed Nutrient Task Force (or Task Force) was formed to bring together representatives from federal agencies, states, and tribes to consider options for responding to hypoxia. The Task Force asked the White House Office of Science and Technology Policy to conduct a scientific assessment of the causes and consequences of Gulf hypoxia through its Committee on Environment and Natural Resources (CENR).

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