

2020 Chesapeake Bay Summer Hypoxia



Data Integrity Work
Group











July 30, 2020

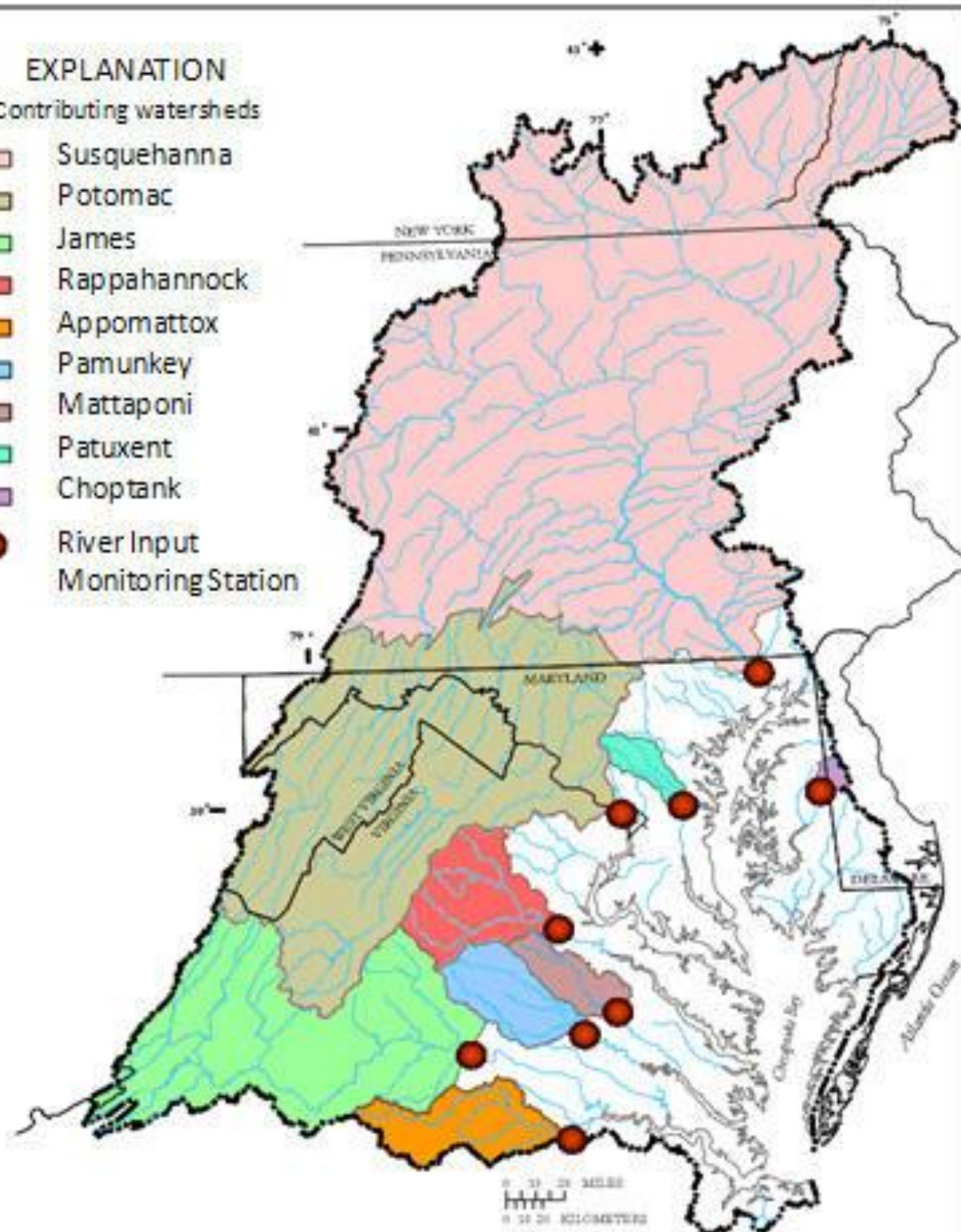
Why is Hypoxia (Dead Zone) Forecast Important?

- Hypoxia is key indicator of Bay health
- Directly related to management actions to reduce excess nutrients
- Important relationship to fish habitat:
DO/Temperature squeeze
- High media attention
- Tracked over the entire summer: May – Sept.
- What will the 2020 Hypoxia Forecast be – average, less hypoxia, or more hypoxia?

EXPLANATION

Contributing watersheds

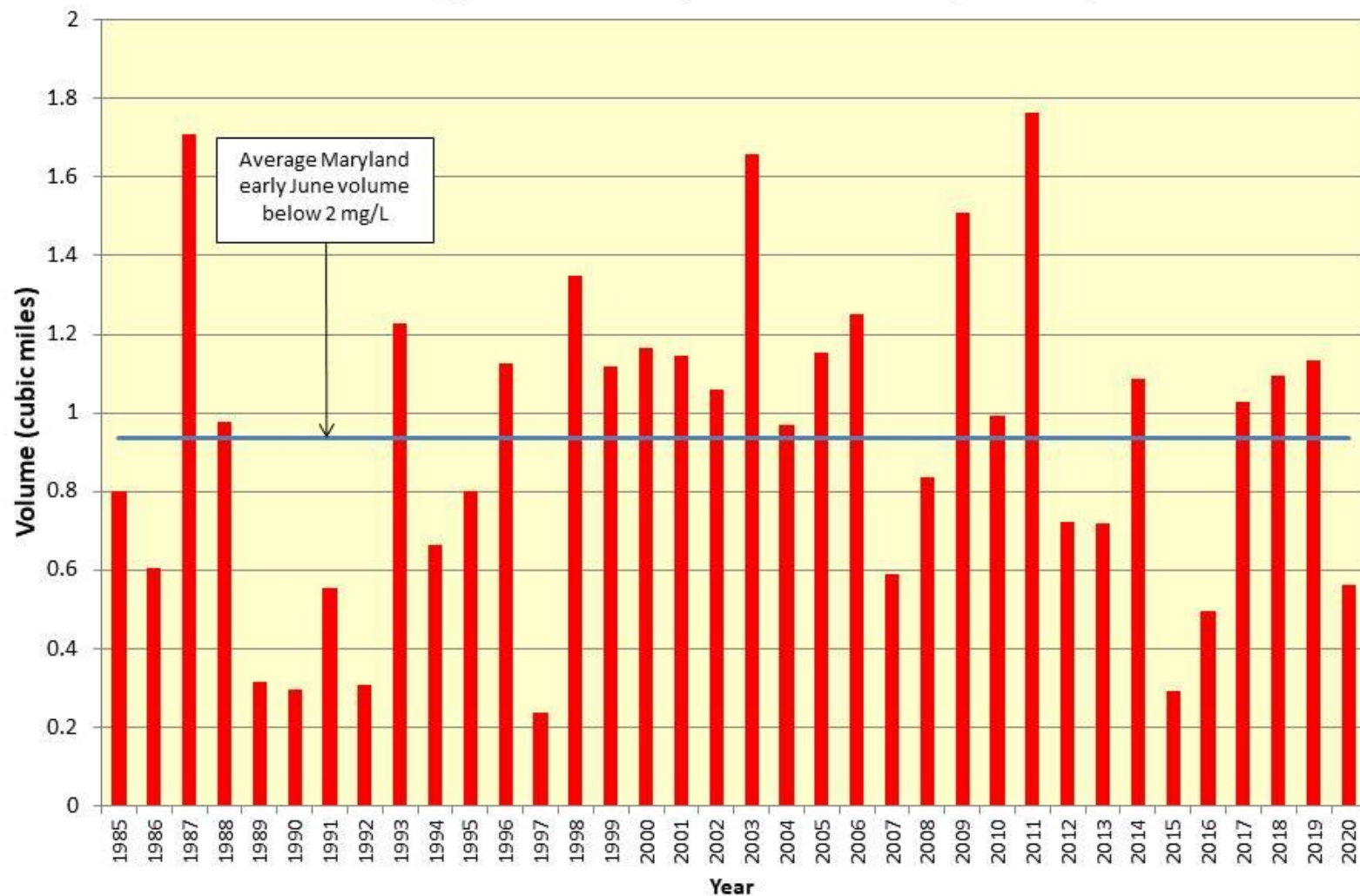
-  Susquehanna
-  Potomac
-  James
-  Rappahannock
-  Appomattox
-  Pamunkey
-  Mattaponi
-  Patuxent
-  Choptank
-  River Input Monitoring Station



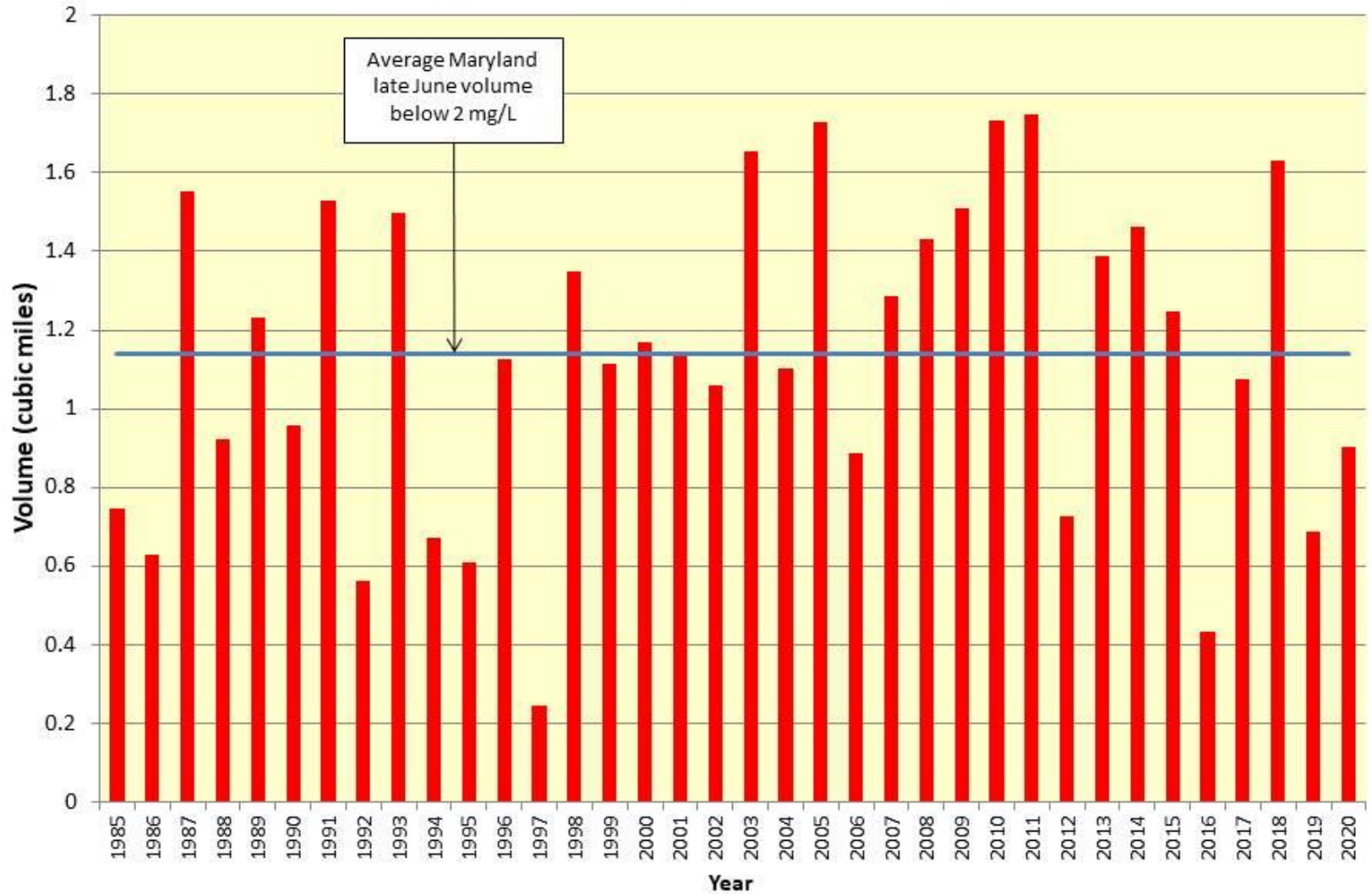
2020 Hypoxia Forecast

- Slightly less hypoxia than the long-term average (1985-2019)
- 4 out of 5 months (January – May) had less than average N loads for the 9 major River Input Monitoring sites.
- Thanks to USGS, CBP, UMCES, UM and State agencies

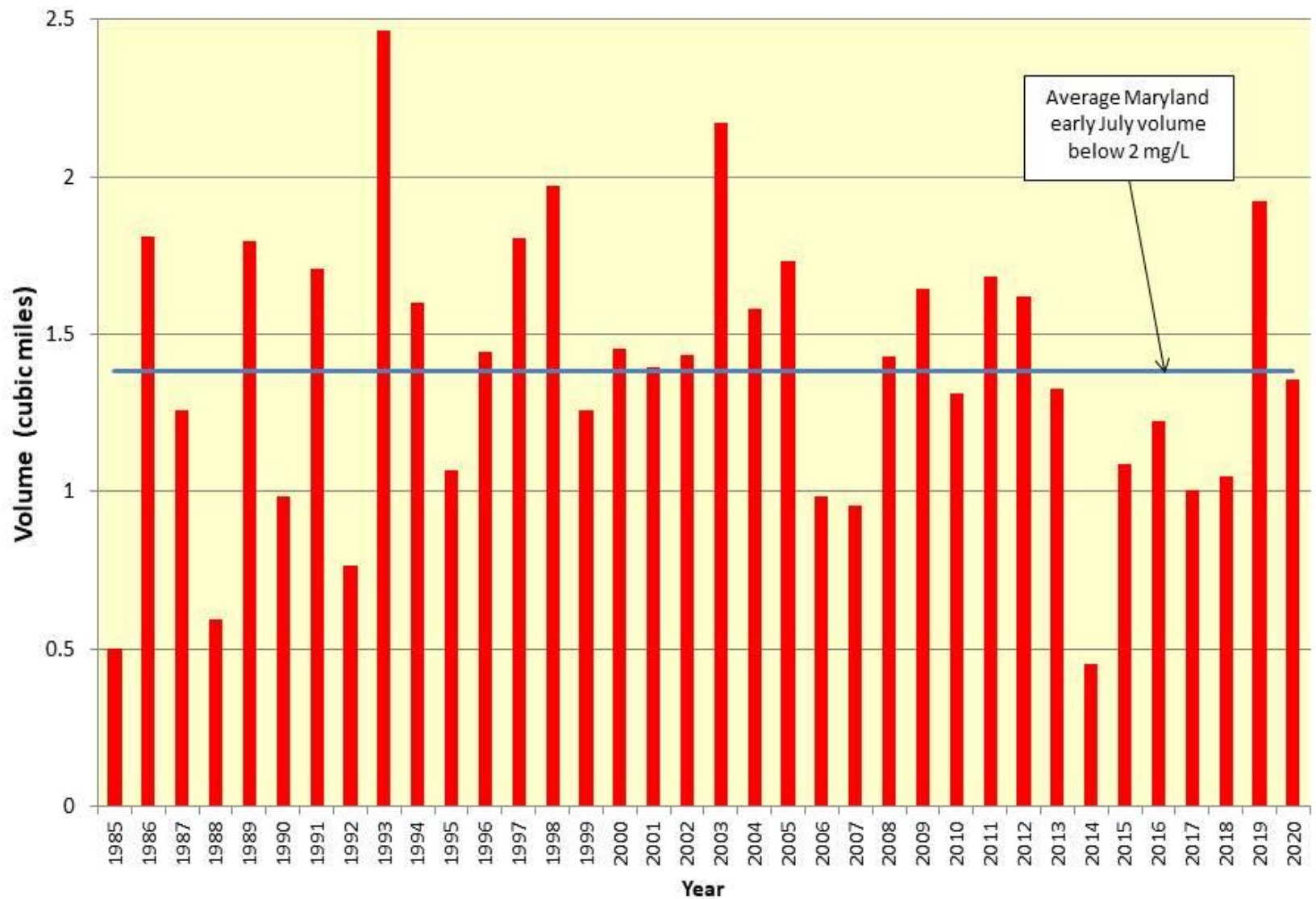
Early June 2020 Dissolved Oxygen Volume below 2 mg/L for the Maryland Main Chesapeake Bay



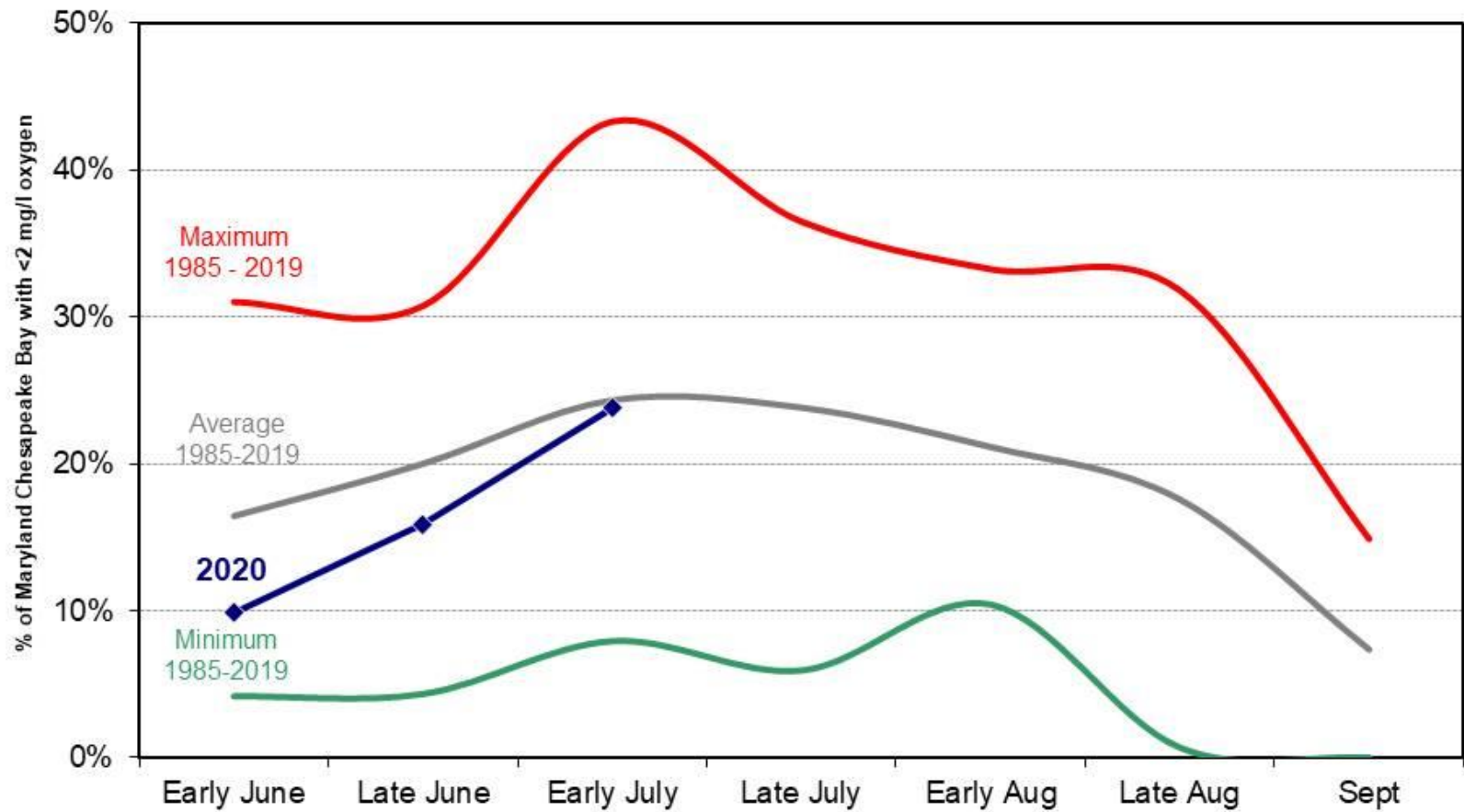
Late June 2020 Dissolved Oxygen Volume below 2 mg/L for the Maryland Main Chesapeake Bay



Early July 2020 Dissolved Oxygen Volume Below 2 mg/L for the Maryland Main Chesapeake Bay

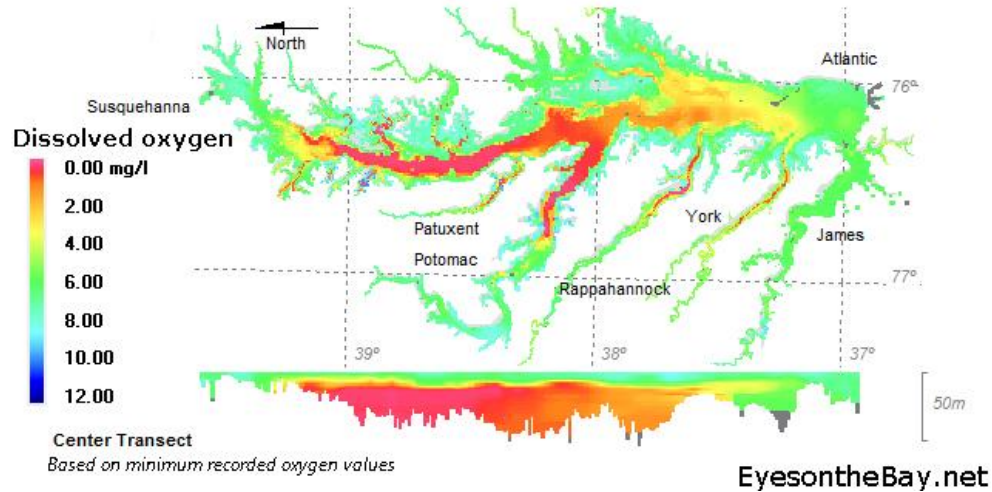


Percentage of Water in Maryland's Mainstem Chesapeake Bay Below 2 mg/l Oxygen



Chesapeake Bay Dissolved Oxygen

First July Cruise - Tributaries July 9-24 / Main Bay July 8-10, 2019



Chesapeake Bay Dissolved Oxygen

Second July Cruise - Tributaries July 9-24 / Main Bay July 22-26, 2019

