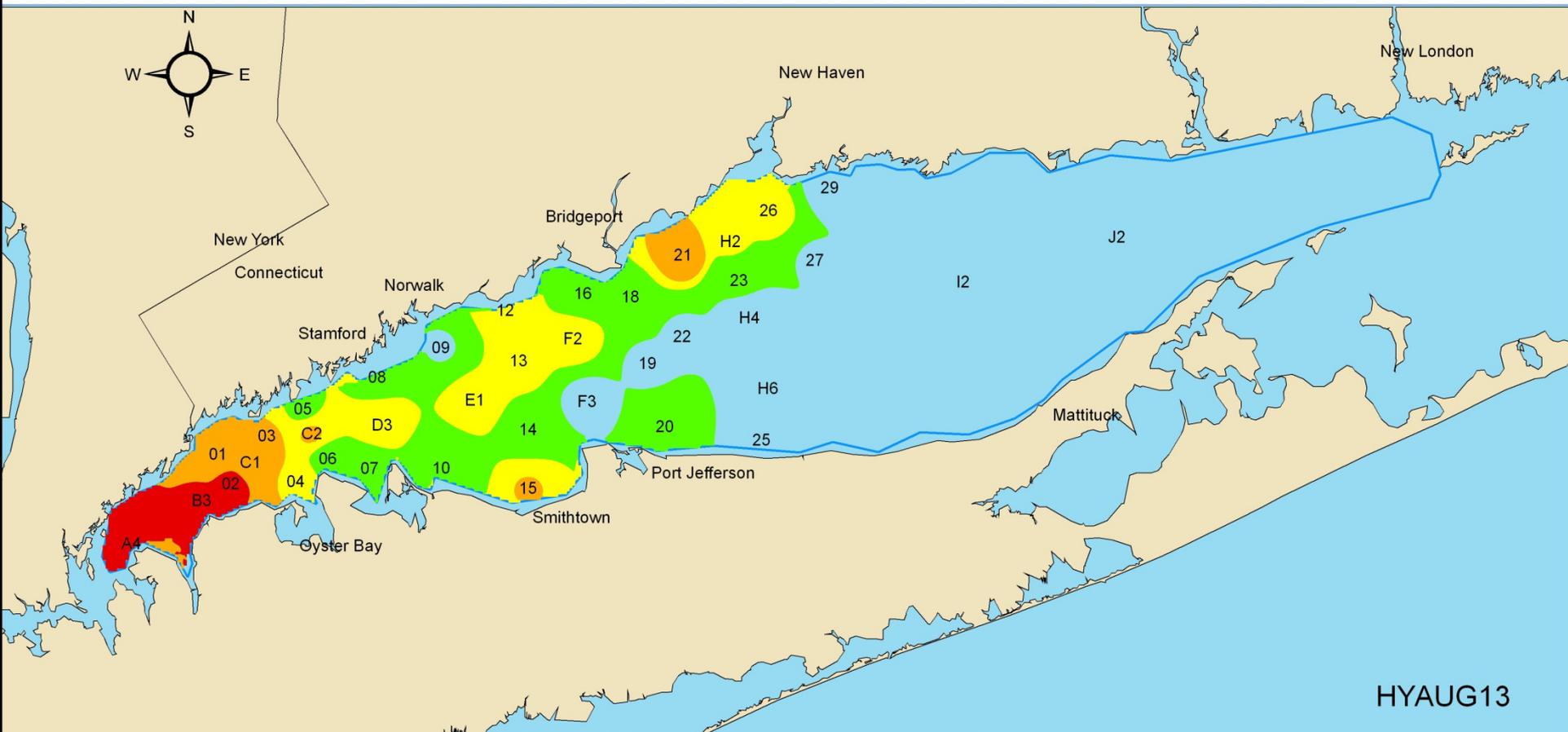




# Dissolved Oxygen in Long Island Sound Bottom Waters

## August 12, 13 and 14, 2013



**HYAUG13**

The HYAUG13 survey was conducted from 12-14 August aboard the R/V John Dempsey. A total of 38 stations were sampled. Dissolved oxygen concentrations were below 3.0 mg/L at nine stations with the lowest value being 1.34 mg/L at Station A4. This is slightly better than in 2012 when 23 stations were below 3.0 mg/L and the lowest DO concentration was 0.9 mg/L at Station A4. Additionally, eight stations had DO concentrations between 3.5 mg/L and 3.0 mg/L and ten stations had DO concentrations that were above 3.5 mg/L but less than 4.8 mg/L. The areal extent of bottom water where DO values fell below 4.8 mg/L was 1051.3 km<sup>2</sup> (405.9 mi<sup>2</sup>). The areal extent of bottom waters affected by hypoxia (DO<3 mg/L) was found to be 209.1 km<sup>2</sup> (80.7 mi<sup>2</sup>) and is the fifth lowest area over the past 15 years.

Dissolved Oxygen	Severity of impact
0.0 - 0.99	Severe
1.0 - 1.99	Moderately severe
2.0 - 2.99	Moderate
3.0 - 3.49	Marginal
3.5 - 4.79	Interim management goal
4.8+	Excellent - Supportive of marine life