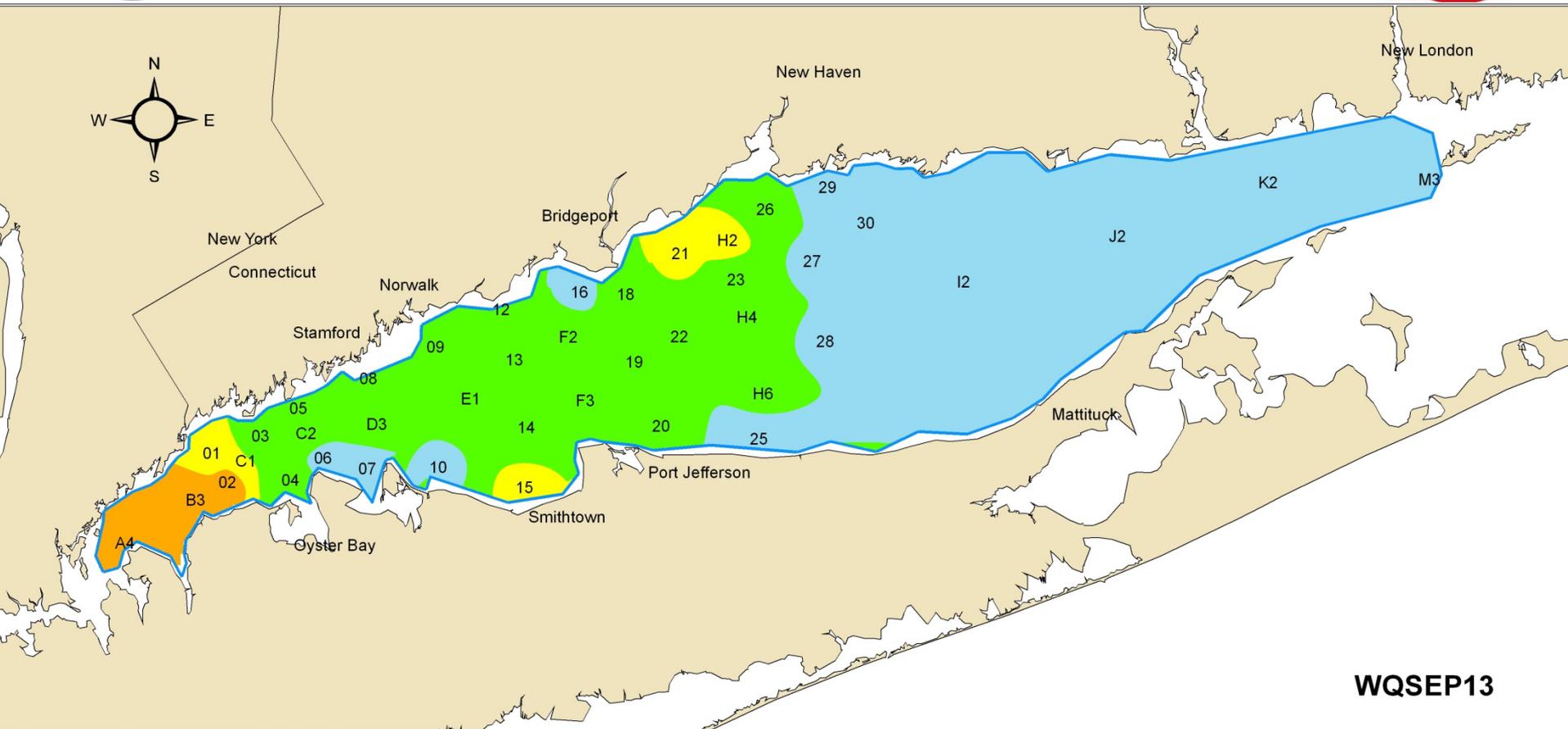




# Dissolved Oxygen in Long Island Sound Bottom Waters

## August 27, 28 and 29, 2013



WQSEP13

The **2013 September Water Quality Survey** was conducted August 27th, 28th and 29th. Forty-two stations were sampled. Bottom water dissolved oxygen concentrations were below 4.8 mg/L at a total of 29 stations with only three of those being below 3.0 mg/L, compared to 28 stations below 4.8 mg/L during last month's survey and only one station below 3.0 mg/L. The lowest concentration was observed at Station B3 (2.33 mg/L). The area of bottom waters affected by hypoxia (DO<3.0 mg/L) was 100.1 km<sup>2</sup> (38.6 mi<sup>2</sup>). This is slightly better than last year when 131.7 sq km (50.8 sq mi) was affected. Much better than the largest September hypoxia event which occurred in 1993 and affected 446.8 km<sup>2</sup> (172.5 mi<sup>2</sup>). The 23-year average (1991-2013) area is 134.1 km<sup>2</sup> (51.8 mi<sup>2</sup>). The area of bottom waters with DO concentrations less than 4.8 mg/L totaled 1,207.3 km<sup>2</sup> (466.1 mi<sup>2</sup>).

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