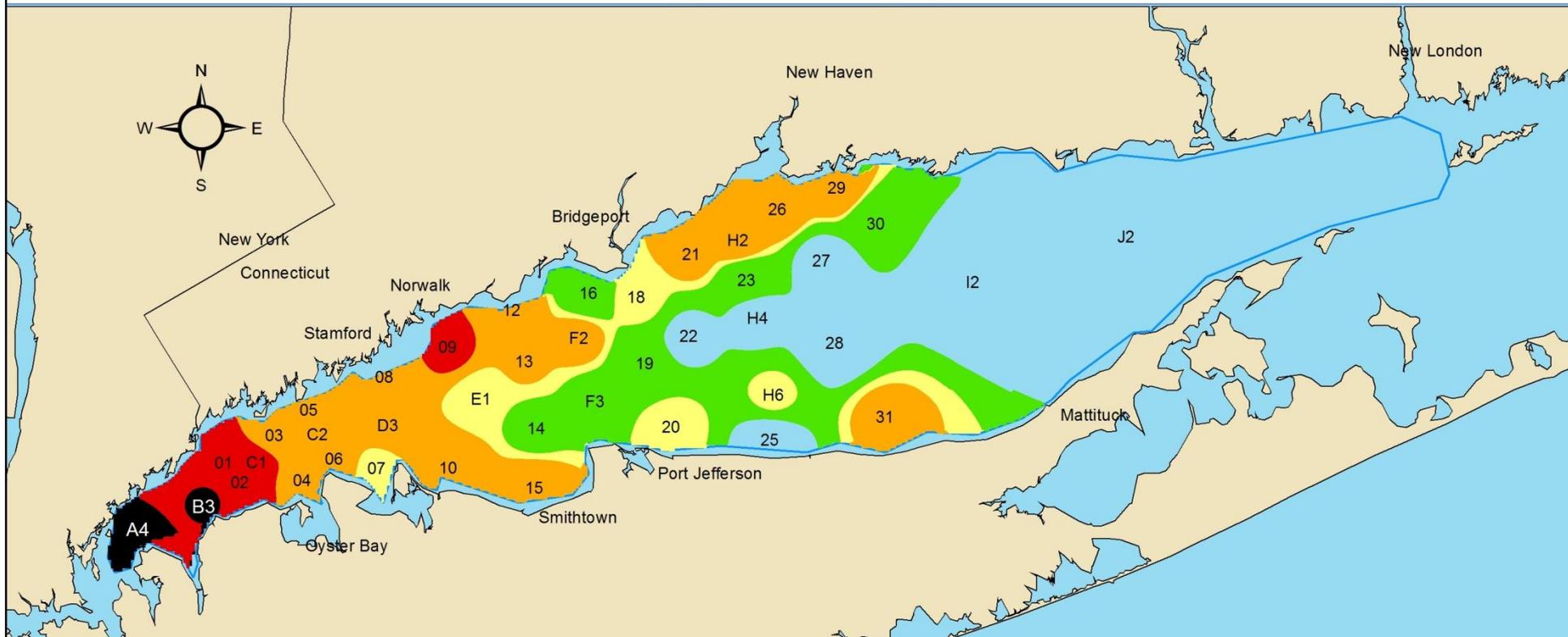




Dissolved Oxygen in Long Island Sound Bottom Waters August 14 - 16, 2012



HYAUG12

The **2012 August Hypoxia Survey** was conducted 14-16 August. Forty-one stations were sampled using the R/V John Dempsey. Bottom water dissolved oxygen concentrations were below 4.8 mg/L at 34 stations. A total of 23 stations were below 3.0 mg/L, four of those were below 2.0 mg/L, and two were below 1.0 mg/L. The lowest concentration was observed at A4 (0.90 mg/L). After 3 years without any DO values below 1.0 mg/L (last time was in 2008), both A4 and B3 went severely hypoxic. The area of bottom water affected by hypoxia (DO <3.0mg/L) is 288.5 square miles (747.1 sq km) compared to 130.3 square miles (337.6 sq km) in 2011 and 0 square miles (0 sq. km) in 2010. The area of bottom water with DO less than 1.0 mg/L is 17.7 square miles (45.8 sq km).

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