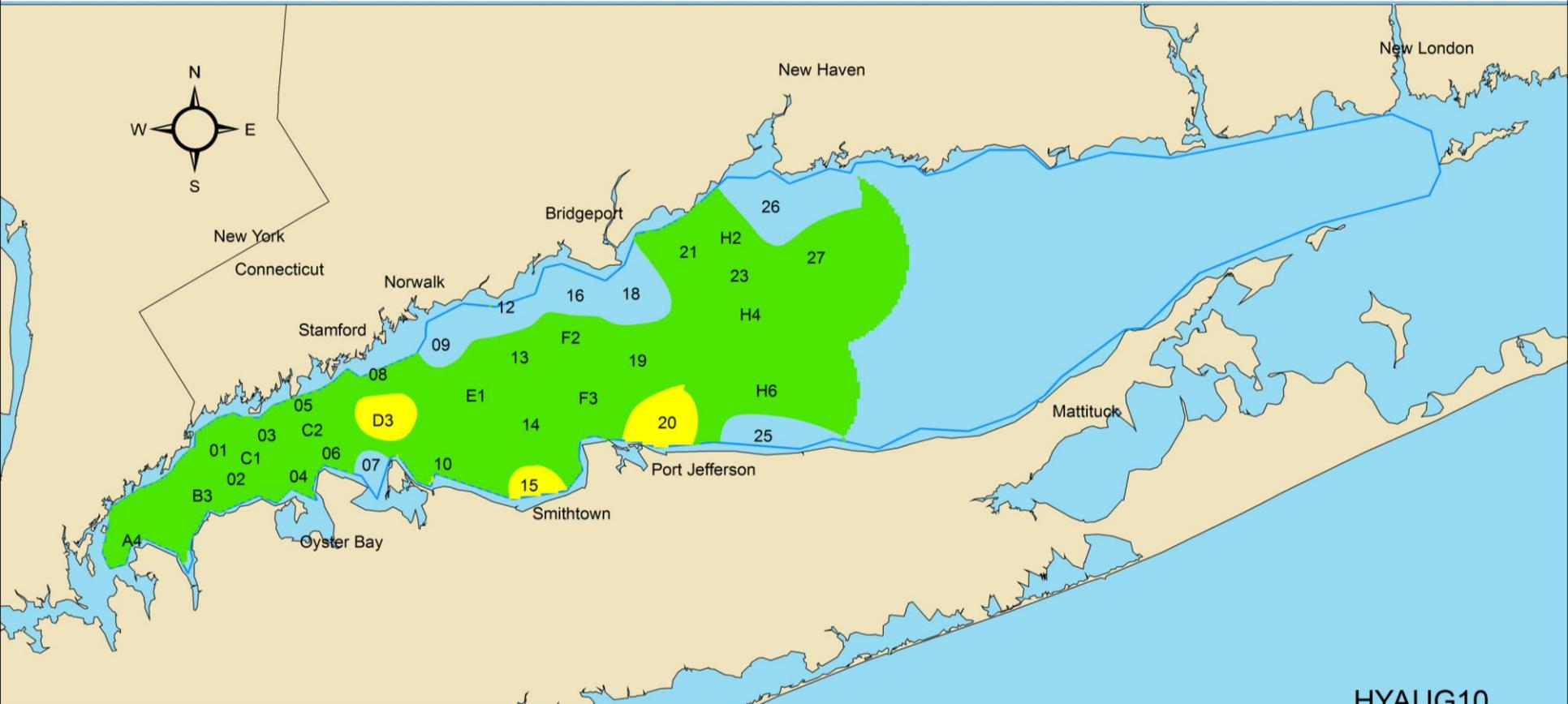


Dissolved Oxygen in Long Island Sound Bottom Waters August 17 and 19, 2010



HYAUG10

The **2010 August Hypoxia Survey** was conducted 17 and 19 August. Thirty-four stations were sampled using the R/V Patricia Lynn. Bottom water dissolved oxygen concentrations were below 4.8 mg/L at 27 stations with 3 of those stations falling below 3.5 mg/L and none falling below 3.0 mg/L compared to 2009 when 34 stations were below 4.8 mg/L, 24 of those stations were below 3.5 mg/L and 15 stations were below 3.0 mg/L. The lowest concentration was observed at Station D3 (3.12 mg/L). In 2009 the lowest concentration was at A4 (1.49 mg/L). The area of bottom water affected by hypoxia (DO <3.5 mg/L) is 33.9 square miles (87.9 sq. km), well below the ten year average of 217.6 sq mi (563.7 sq km), and no stations were observed to have values below 3.0 mg/L. Cooler than average temperatures and an east wind the week prior to our survey helped dissolved oxygen levels rebound, preventing the severe hypoxia normally observed this time of year.

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