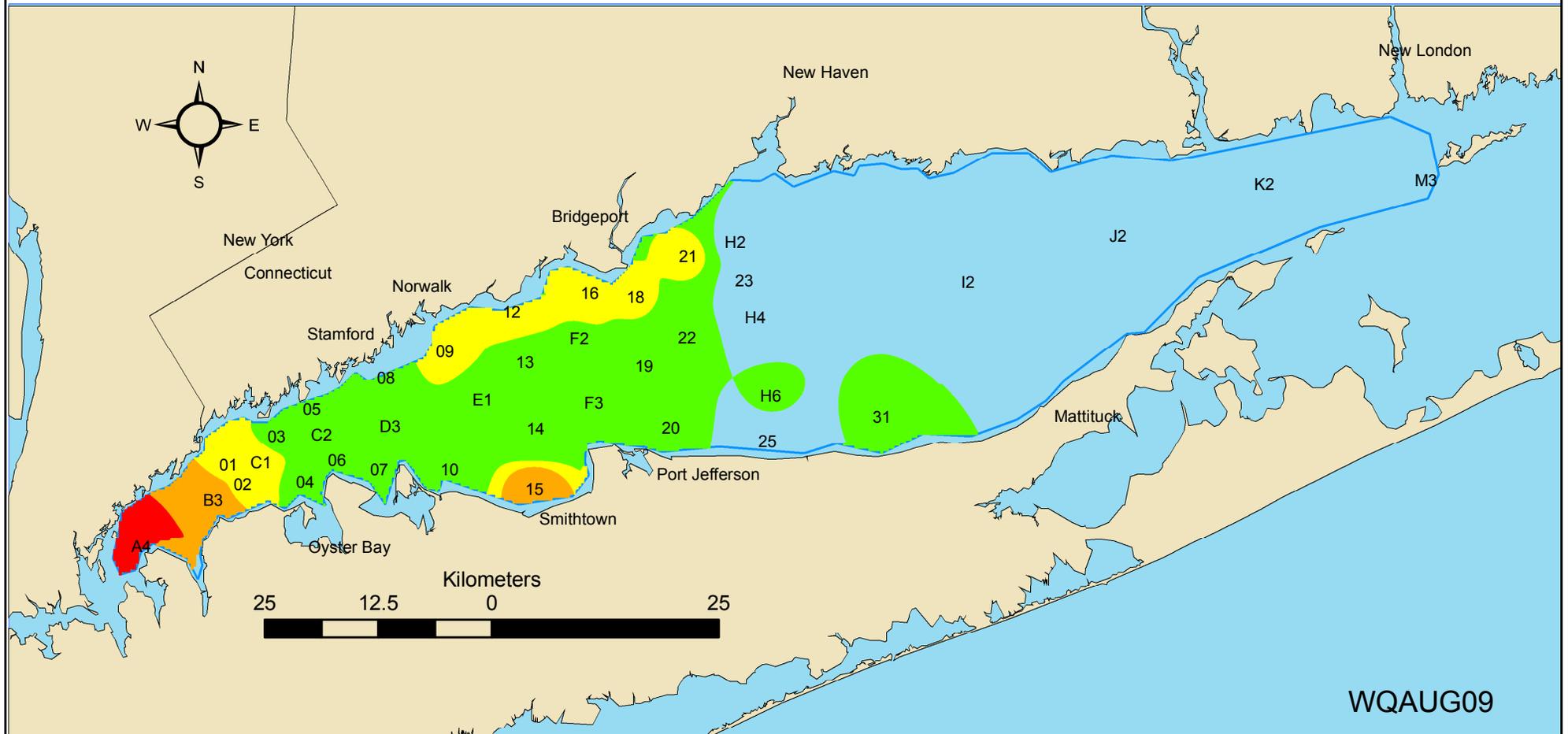


# Dissolved Oxygen in Long Island Sound Bottom Waters August 3-5, 2009



WQAUG09

The **2009 August Water Quality Survey** was conducted 3-5 August. Thirty-eight stations were sampled. Bottom water dissolved oxygen concentrations fell below 4.8 mg/L at 30 stations with 11 of those stations falling below 3.5 mg/L and three stations falling below 3.0 mg/L. The lowest concentration was observed at Station A4 (1.49 mg/L). This was higher than in 2008 when the lowest concentration was 0.61 mg/L, also at Station A4. The area of bottom water affected by hypoxia (DO <3.5 mg/L) is 134.8 square miles (349.1 sq. km). The area is less than that documented in 2008 (583.5 km<sup>2</sup>). The area with DO concentrations less than 3.0 mg/L is 43.7 square miles (113.2 sq km). The average area affected by hypoxia from 1999-2008 was 223.3 sq mi (578.3 sq km).

## Dissolved Oxygen

0.0 - 0.99
1.0 - 1.99
2.0 - 2.99
3.0 - 3.49
3.5 - 4.79
4.8+

## Severity of impact

Severe
Moderately severe
Moderate
Marginal
Interim management goal
Excellent - Supportive of marine life