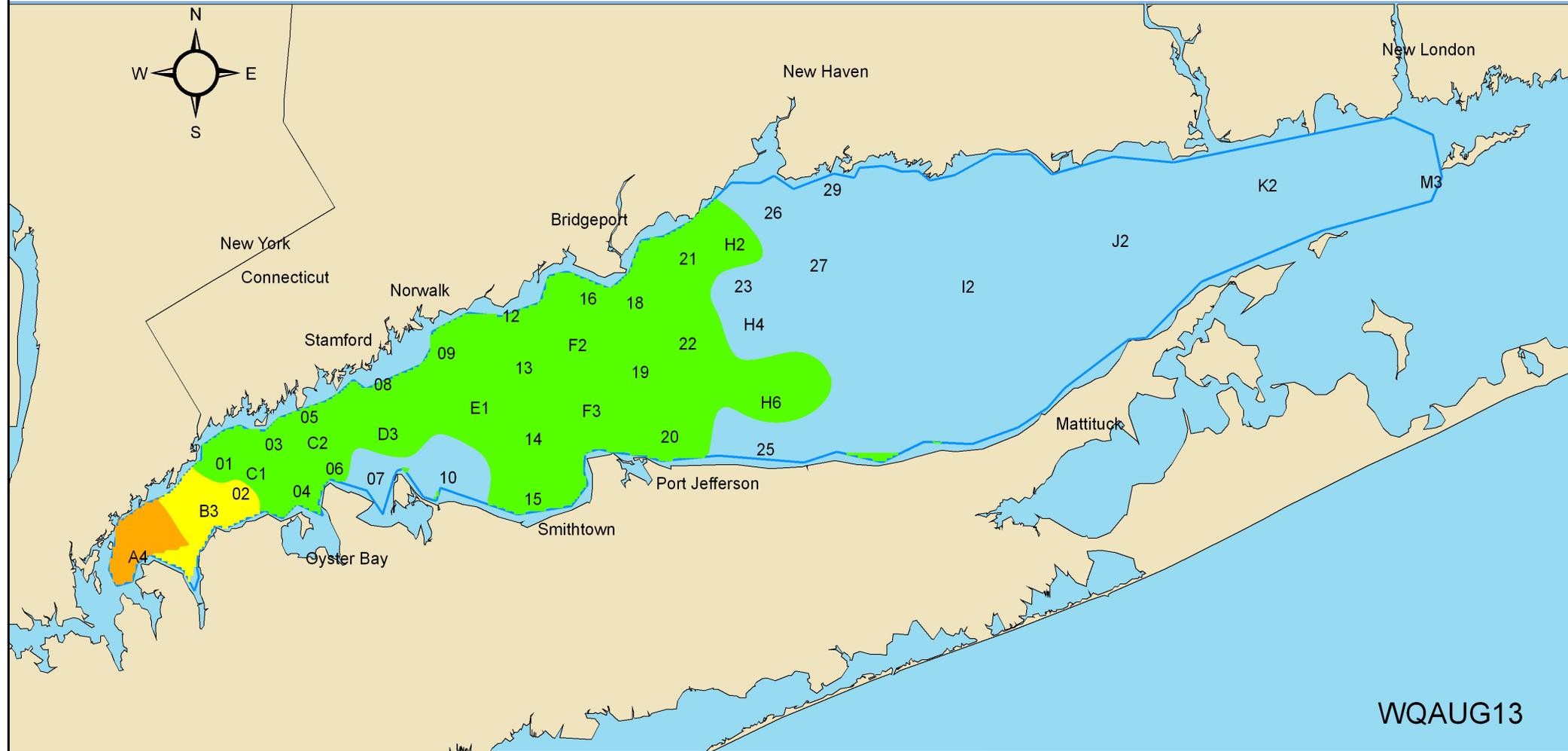
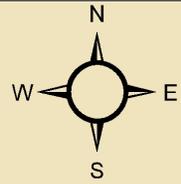




# Dissolved Oxygen in Long Island Sound Bottom Waters July 29 - 31, 2013



WQAUG13

The 2013 August Water Quality Survey was conducted July 29-31. Forty stations were sampled. Bottom water dissolved oxygen concentrations fell below 4.8 mg/L at 28 stations, slightly better than last year when 32 stations were less than 4.8 mg/L. Only station A4 was below 3.0 mg/L (2.28 mg/L). The lowest concentration observed in 2012 was at Station 02 (2.35 mg/L). The area of bottom water affected by hypoxia (DO <3.0 mg/L) was only 41.3 sq. km (15.9 square miles) which is a decrease from 2011 and 2012. This was the second lowest extent recorded during the 1999-2013 study period; only 2000 had a lower extent when no hypoxia was recorded. The LISICOS Execution Rocks Buoy indicated a minimum bottom water DO concentration of 1.71 recorded on 21 July. (The current reading is 2.12 mg/L as of 1500 on 1 August.) There have been 11.72 days of DO concentrations below 3.0 mg/L and 0.42 days below 2.0 mg/L.

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