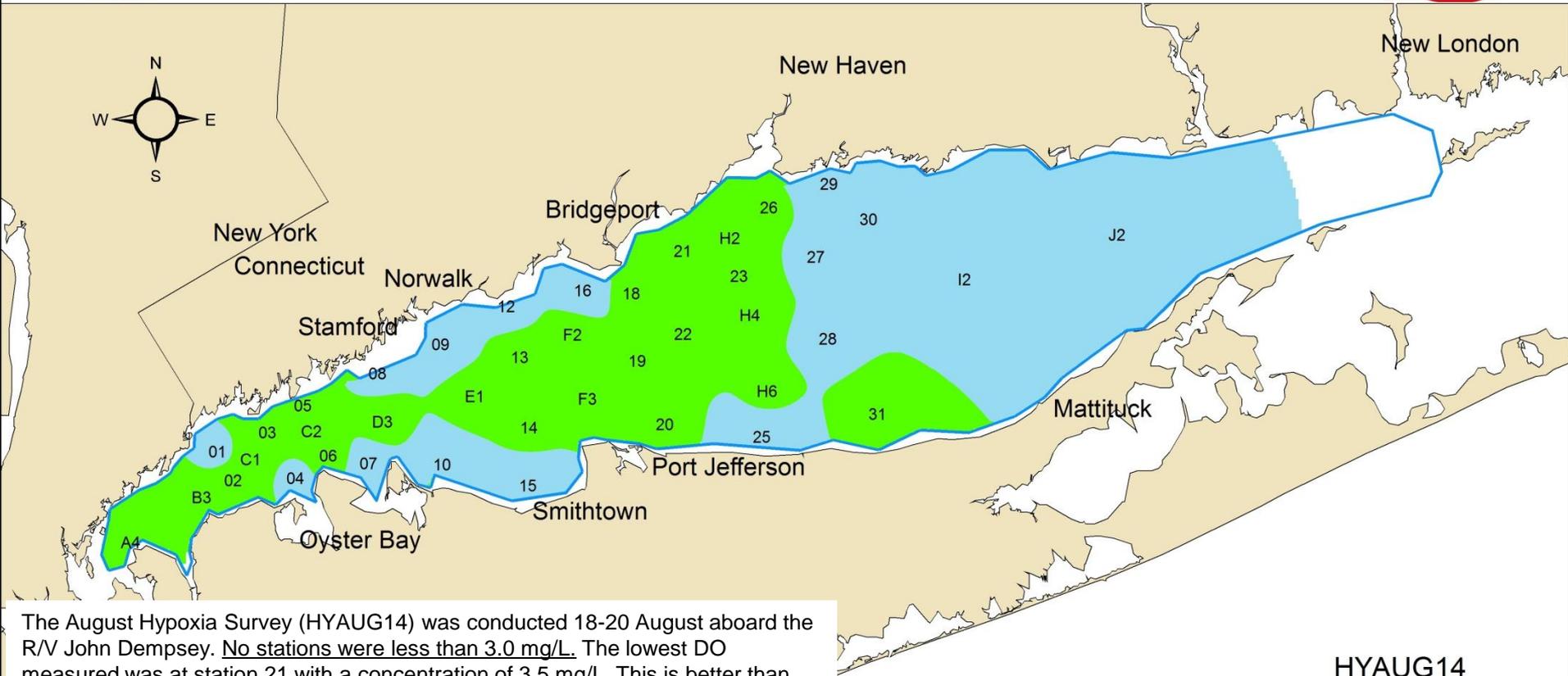




Dissolved Oxygen in Long Island Sound Bottom Waters

18-20 August 2014



The August Hypoxia Survey (HYAUG14) was conducted 18-20 August aboard the R/V John Dempsey. No stations were less than 3.0 mg/L. The lowest DO measured was at station 21 with a concentration of 3.5 mg/L. This is better than the HYAUG13 survey where nine stations were below the 3.0 mg/L mark, with a low of 1.34 mg/L at station A4. It is also notable that seven stations were below 3.0 mg/L two weeks earlier during the WQAUG14 survey. The substantial increase in bottom dissolved oxygen concentrations from last survey can be attributed to the large volume of rain and high wind speeds experienced the week prior to the HYAUG14 survey. Bridgeport received 1.7 inches of rain on 13 August, which was accompanied by wind gusts up to 38 mph with an average wind speed of 13.7 mph. During and prior to the surveys peak winds were clocked between 12-33 mph. Temperatures a week before and during the survey were in the low 80's.

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

HYAUG14