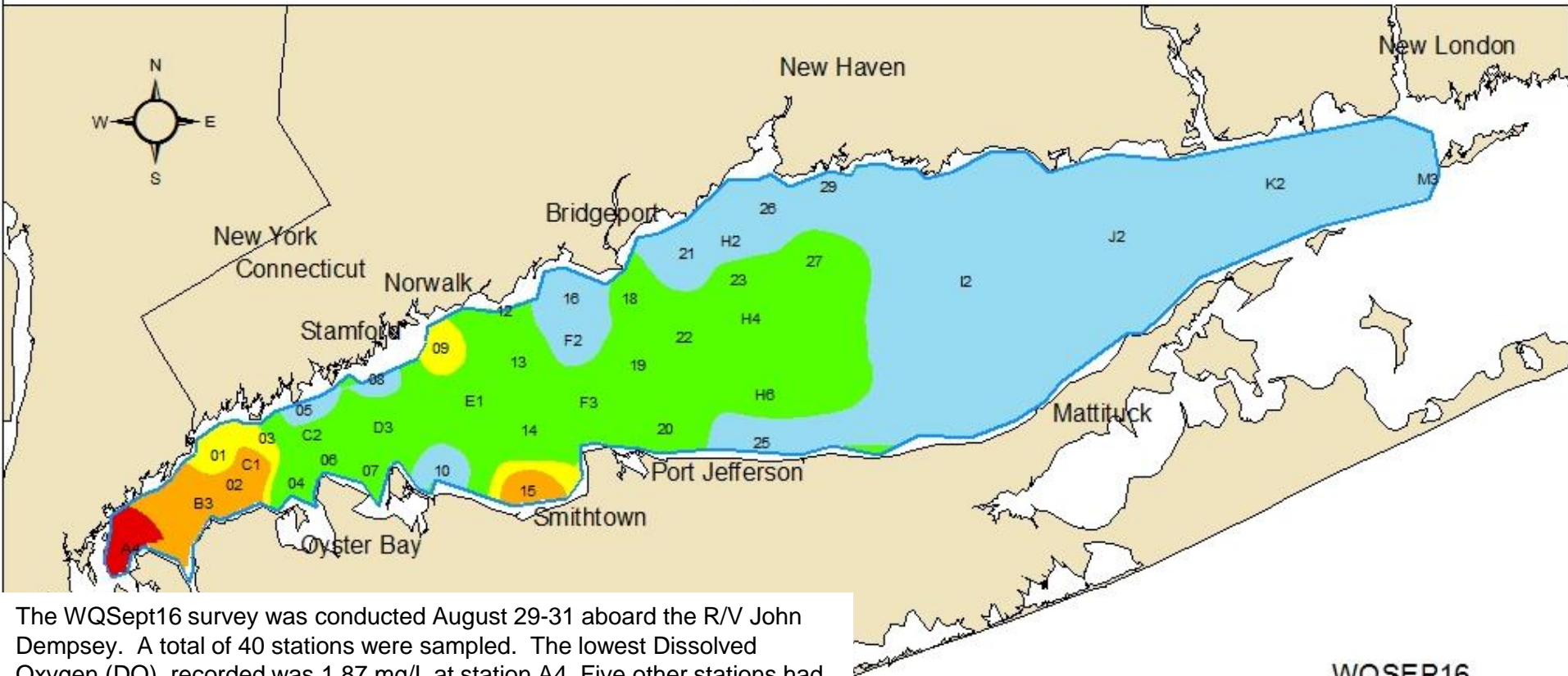




Dissolved Oxygen in Long Island Sound Bottom Waters

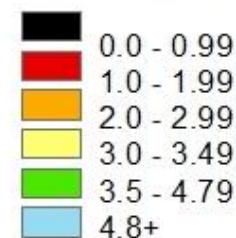
29-31 August 2016



WQSEP16

Dissolved Oxygen

Severity of impact



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

The WQSept16 survey was conducted August 29-31 aboard the R/V John Dempsey. A total of 40 stations were sampled. The lowest Dissolved Oxygen (DO) recorded was 1.87 mg/L at station A4. Five other stations had DO concentrations below 3.0 mg/L and 26 additional stations had DO below 4.8 mg/L. The maximum bottom temperature was 24.56° C at station 16 and the maximum surface temperature was 25.54° C at station B3. Five stations dropped below 3.0 mg/L. Only one station dropped below 2 mg/L. This is in contrast to the past three years where there have not been any stations that have dropped below the 2.0 mg/L mark at this time of year. The total area of bottom water affected by hypoxia (DO <3.0 mg/L) was 139 sq km (53.67 sq mi), a large contrast from last year and in 2014 when 56.3 sq km (35.0 sq mi) and 34.3 sq km (21.3 sq mi) were hypoxic (respectively).