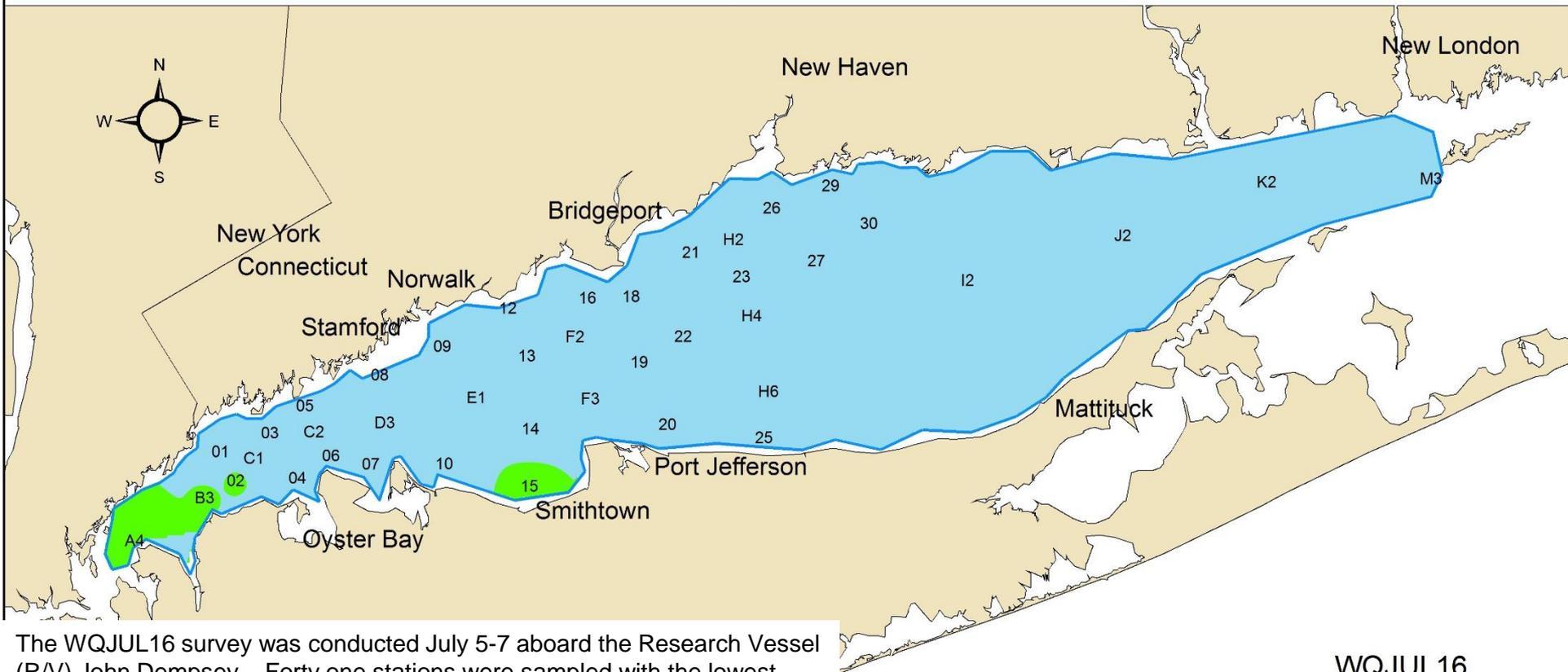




Dissolved Oxygen in Long Island Sound Bottom Waters

5 - 7 July 2016



WQJUL16

The WQJUL16 survey was conducted July 5-7 aboard the Research Vessel (R/V) John Dempsey. Forty one stations were sampled with the lowest Dissolved Oxygen (DO) level recorded at the far western Sound station A4 was 4.26mg/L. Only three other stations had DO concentrations below 4.8 mg/L. The results of this cruise indicate that the aerated waters of LIS, for this time of year, are comparable to the last 4 years but even better than in 2011 when three stations had already gone hypoxic. Maximum bottom water temperature of 19.81 °C was recorded at station 29. Warmer than in 2015 and 2014 when the bottom temps were 19.7 and 18.9 °C. Maximum surface temperature was 22.73 °C.

| 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 |