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Oxygen time series at the Scotian Shelf, NW Atlantic Ocean

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An oxygen time series has been established in the late 90s at a monitoring station (HL2) on the Scotian Shelf as part of the Atlantic Zone Monitoring Program (AZMP) of Fisheries and Oceans Canada (DFO). Dissolved oxygen and related hydrochemical properties of the water column have been determined in approximately monthly intervals at HL2, which is approximately 30km offshore. The duration of the spring bloom is variable over the range of weeks, and the mixed layer depth at the time of the bloom varies between 20-30m and deeper than 100m water depth. We analyze this time series with respect to timing and accentuation of the bloom and post bloom biological activity, and with respect to the physical and chemical controls affecting those.

Reference: DFO (2014). BioChem: database of biological and chemical oceanographic data. Department of Fisheries and Oceans, Canada.