3.7 Oxygen

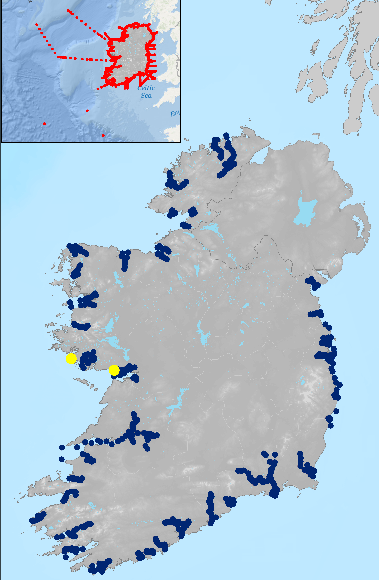
Walther C.A. Cámaro García, Ned Dwyer, Robert Wilkes, Rob Thomas, Evin McGovern

Oxygen is essential for ocean life. There is an optimum range for dissolved oxygen concentration in oceanic water to avoid stress and potential death to ocean plants and animals. Although low levels of oxygen exist in certain habitats, in general oxygen in subsurface waters is a good indicator of ocean health. Globally there has been a decrease of oxygen concentrations from the surface to 1000 m depth over the last 60 years. In the open ocean such declines are linked to ocean warming and increased stratification in calm waters. In coastal areas agricultural run-off and human waste discharges into rivers and coastal systems result in oxygen depletion. In the worst cases such declines can lead to dead zones and also have impacts on the health and economy of the communities linked to the ocean.

![A picture containing person, outdoor

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**Photo: @ Tomas Szumski**



**Map 3.6.** Location of dissolved oxygen observation stations.

Measurements

The Marine Institute (MI) and the National University of Ireland Galway (NUI, Galway) take measurements of dissolved oxygen in Irish coastal, shelf and offshore waters using both chemical analysis of collected water samples (reference method) and direct measurements using various sensors.

Since 2011, full depth dissolved oxygen profiles have been taken annually on the Ocean Climate Section along the Irish shelf and across the southern Rockall Trough, primarily in winter although winter sampling has been heavily constrained by poor weather conditions during recent years. In May 2017 observations of dissolved oxygen were made during the GO-SHIP A02 transatlantic survey on board the *RV Celtic Explorer* between Newfoundland and Ireland.

The Annual Winter Environmental Survey on board the *RV Celtic Voyager* collects dissolved oxygen sensor profiles in coastal and shelf waters around the Island of Ireland (red on inset map 3.x). As part of ongoing projects observations are also made at the Mace Head buoy and at the SmartBay Observatory in Galway Bay (yellow).

As part of Ireland’s Water Framework Directive and shellfish waters monitoring programme, *in situ* dissolved oxygen measurements are made by the Environmental Protection Agency and the MI in 116 transitional and coastal water bodies (blue). This monitoring programme has been in place since 2007.

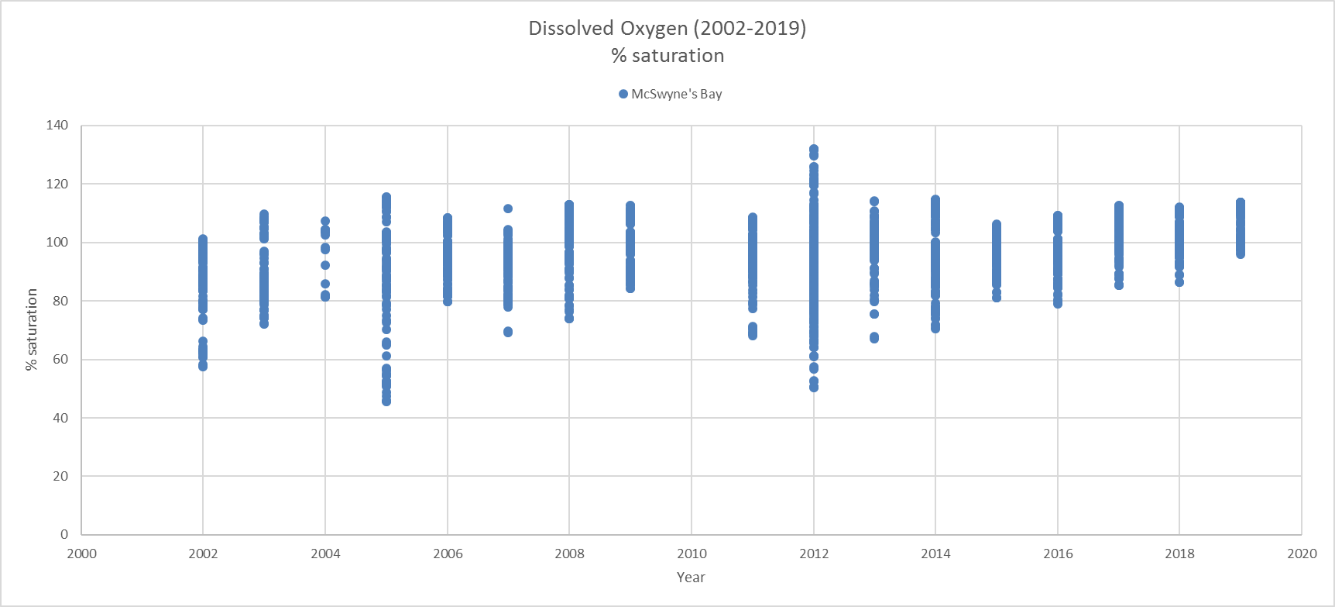
‘The levels of oxygen seen in McSwyne´s Bay in 2005 and 2012 are associated with summer phytoplankton blooms which caused major mortalities of marine organisms. ´

Time-series and Trends

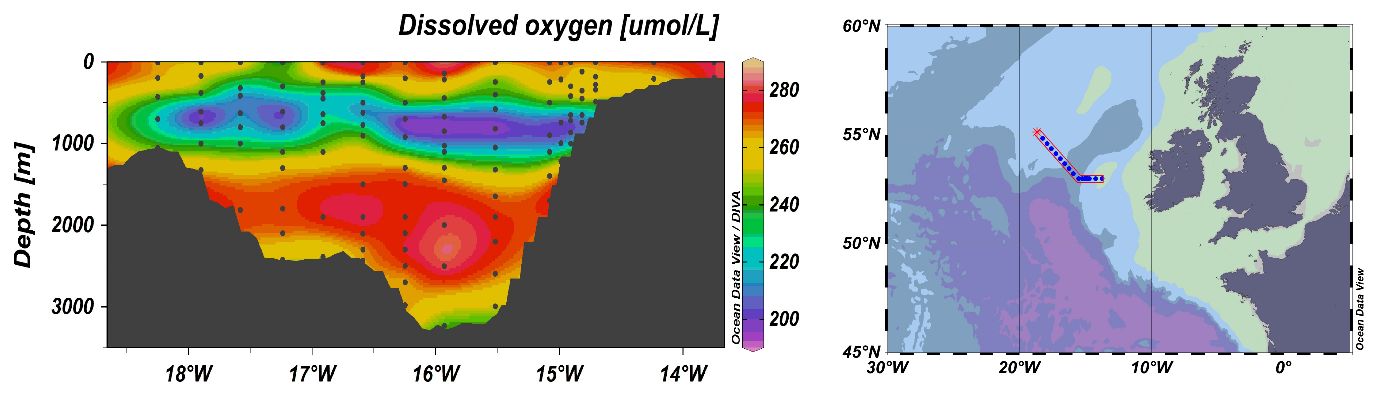
Figure 3.15 shows the percentage saturation of dissolved oxygen taken at sampling sites in McSwyne’s Bay, Co. Donegal, mainly during summer months, from 2002 to 2019. Measurements were made at water depths ranging from just below the surface to 30 m. In general, levels were close to full saturation over the period of the observations. Super-saturated values (>100%) usually occur in the well-mixed surface layer, while the lower levels of saturation are found in stratified subsurface layers. The maximum and minimum values observed during the 2005 and 2012 summers are linked to phytoplankton blooms present during these periods in the coastal areas. The low dissolved oxygen values following the 2005 intense dinoflagellate bloom resulted in major mortalities of marine organisms in both the water column and near the sea floor.

Figure 3.16 shows a deep-water dissolved oxygen section as measured during the annual Rockall Ocean Climate Survey in winter 2013[[1]](#footnote-1). The lowest values are observed in the subsurface waters at approximately 500m depth due to respiration associated with decomposition of organic matter.

‘Since 2011, full depth dissolved oxygen profiles have been taken annually along the Irish shelf and across the southern Rockall Trough. ´



**Figure 3.15.** Percentage saturation of dissolved oxygen at McSwyne’s Bay, Co. Donegal, 2002–2019.



**Figure 3.16.** Deep-water dissolved oxygen concentration (µmol/l) section for the Rockall Trough in the 2013 winter (left), during the annual survey on the Irish Shelf (right). The 14 rows of vertical dots represent sampling points at different depths (left) and correspond to the blue point locations indicated in the red polygon (right).

Further Information:

* ***Oxygen ESSENTIAL CLIMATE VARIABLE (ECV) GCOS FACTSHEETS: (***[**https://gcos.wmo.int/en/essential-climate-variables/oxygen/**](https://gcos.wmo.int/en/essential-climate-variables/oxygen/)***)***
* ***Silke, J., O'Beirn, F. & Cronin, M.*** (2005), "Karenia mikimotoi: An Exceptional Dinoflagellate Bloom in Western Irish Waters, Summer 2005", Marine Environment and Health Series No. 21, Marine Institute 2005 (<https://oar.marine.ie/handle/10793/240>)
* ***Linden, O***., (2019), Evidence for ocean deoxygenation and its patterns, in: Ocean Deoxygenation: Everyone´s Problem, Laffoley, D. & Baxter, J.M. (eds), IUCN, Geneva. (<https://doi.org/10.2305/IUCN.CH.2019.13.en>)
* ***Information about ICES:***

**(**[**https://www.ices.dk/**](https://www.ices.dk/)**)**

* ***The GO-SHIP programme: (***[**https://www.go-ship.org/About.html**](https://www.go-ship.org/About.html)**)**
* ***The Marine Institute operated Research Vessels:***

***(***[**https://www.marine.ie/Home/site-area/infrastructure-facilities/research-vessels/research-vessels**](https://www.marine.ie/Home/site-area/infrastructure-facilities/research-vessels/research-vessels)**)**

* ***Water Quality in Ireland under the Water Framework Directive: (***[**http://www.epa.ie/pubs/reports/water/waterqua/waterqualityinireland2013-2018.html**](http://www.epa.ie/pubs/reports/water/waterqua/waterqualityinireland2013-2018.html)**)**

Maintaining the Observations

The MI and NUI Galway have undertaken ship-based hydrographic observations including dissolved oxygen since 2008 and supported additional initiatives such as GO-SHIP. Data collected from these programmes are reported to the International Council for the Exploration of the Sea (ICES) and other international data centres.

There is a need to sustain “climate” quality objective seawater dissolved oxygen measurements that meet international standards such as those described in the GO-SHIP hydrography manual.

1. The survey and the full range of observations made are described in section 3.x [↑](#footnote-ref-1)