



Primary productivity anomalies, 2015

Title	Primary productivity anomalies, 2015
Creator	Environmental Reporting, Ministry for the Environment and Statistics New Zealand
Date	2016-10-27
Description	<p>The average concentration of chlorophyll-a (chl-a) in phytoplankton for 2015. Concentrations of chl-a in phytoplankton are used to assess primary productivity in our oceans. Phytoplankton are primary producers of biomass (mass of living organisms) and form the main basis of marine food chains. They use the chl-a pigment to capture the sun's energy through the process of photosynthesis. Phytoplankton growth is affected by the availability of nutrients and light, which in turn are affected by the structure of the surface water column. The surface water column structure is affected by oceanographic and climate processes; large-scale changes to climate and oceanographic conditions can lead to changes in phytoplankton growth and chl-a concentrations.</p>
Source	<p>Source: NIWA Method: Data are based on measurements from the SeaWiFS and MODIS-Aqua satellite ocean colour sensors. Anomalies are where chlorophyll-a concentrations deviated from the long-term (1997-2014) mean (Pinkerton, 2016). Primary productivity anomalies are inferred from observed changes in near-surface concentrations of chlorophyll-a (chl-a) for five selected regions over time: the New Zealand exclusive economic zone (EEZ) as a whole, the Chatham Rise, northern subtropical waters, subantarctic waters, and the Tasman Sea.</p>
Coverage	-57.5121843068 157.021328158 -23.9957073089 -167.024629596
Identifier	https://data.mfe.govt.nz/layer/53460-primary-productivity-anomalies-2015/
Language	eng
Subject	New Zealand
Subject	MARINE
Subject	MARINE-Biology
Subject	FAUNA-Vertebrates
Subject	ECOLOGY-Habitat
Subject	BOUNDARIES
Subject	environment