Ministry for the Environment
Manatū Mō Te Taiao

Trends in ocean acidification, 1998–2016

Title
: Trends in ocean acidification, 1998–2016

Publisher
: New Zealand's Environment Reporting Series: The Ministry for the Environment and Statistics New Zealand

Description
: The pH of New Zealand subantarctic waters is calculated from pCO2 (dissolved carbon dioxide) and alkalinity measurements using refitted Mehrbach constants (see Mehrbach et al, 1973; Dickson & Millero, 1987), and in-situ temperature taken from the Munida time-series transect off the Otago coast. Measurements of pCO2 are taken every two months. The Munida transect, in the subantarctic waters off Otago, is the Southern Hemisphere's longest-running record of pH measurements (NIWA, 2015). Trends were assessed using linear regression at the 95% confidence level. More information on this dataset and how it relates to our Environmental reporting indicators and topics can be found in the attached data quality pdf.

Source
: NIWA

Coverage
: subantarctic waters off Otago, 1998–2016

Identifier
: AC17/044

Type
: Dataset

Language
: eng-nz

Subject
: climate change, greenhouse gas concentrations, greenhouse gas emissions, CO2, Environmental reporting series: Our atmosphere and climate 2017