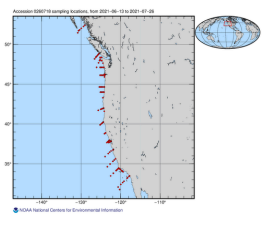
Dissolved inorganic carbon (DIC), total alkalinity (TA), pH, temperature, salinity, oxygen, and nutrient data collected from discrete profile measurements during the National Oceanic and Atmospheric Administration Ocean Acidification Program (OAP) program cruise WCOA2021 (EXPOCODE 33RO20210613) in the northeast Pacific marine waters on NOAA Ship Ronald H. Brown from 2021-06-13 to 2021-07-26 (NCEI Accession 0260718)



Preview graphic

This dataset contains data collected from the National Oceanic and Atmospheric Administration Ocean Acidification Program cruise on NOAA Ship Ronald H. Brown from 2021-06-13 to 2021-07-26. 133 stations were occupied on 17 transect lines from Queen Charlotte Sound, Canada to southern California USA. The cruise was designed to obtain a synoptic snapshot of key carbon, physical, and other biogeochemical parameters as they relate to ocean acidification (OA) in coastal waters and large estuaries of the northeast Pacific. At all sampling stations, CTD casts were conducted to measure temperature, conductivity, pressure, and

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Dataset Citation
Dataset Identifiers
ISO 19115-2 Metadata

Access Time & Location Documentation Description Credit Keywords Constraints Lineage

Publication Dates	publication: 2022-10-06 revision: 2024-10-24
Data Presentation Form	Digital table - digital representation of facts or figures systematically displayed, especially in columns
Dataset Progress Status	Complete - production of the data has been completed Historical archive - data has been stored in an offline storage facility
Data Update Frequency	As needed - NCEI Accession 0260718 was revised and a new version of the archival package was published. Updates to existing archival packages may provide additional files or replace obsolete files. The latest version contains the most complete and up-to-date representation of this archival information package. All of the files received prior to this update are available in the preceding version of this accession. Please see journal.txt in the /about directory for additional details on changes made.
Supplemental Information	This data package (Submission ID: BGB12Y91U) was acquired by NCEI from the Scientific Data Integration System (SDIS) at the NOAA Pacific Marine Environmental Laboratory (PMEL) in accordance with the archival submission agreement between NCEI and PMEL. In this accession, NCEI has archived multiple versions of these data. The latest (and best) version of these data has the largest version number.
Purpose	The major objectives of the cruise were: 1) To characterize ocean acidification (OA) conditions on the North American Pacific Coast; 2) To conduct inter-calibration measurements near other OA observing assets, including moorings, in the study area, allowing inter-calibration of these autonomous assets with high-quality, ship-based measurements; 3) To provide calibration data needed to develop predictive models for aragonite saturation state, pH, and other important OA indicators in the California Current Ecosystem, based on widely measured parameters such as salinity, temperature, and oxygen concentration; 4) To examine relationships between processes leading to OA and hypoxia in coastal ecosystems; 5) To conduct biological measurements in conjunction with physical and chemical OA measurements; and 6) To provide scientific information on OA conditions and trends for resource management and decision support.
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