



# Atmosphere and ocean carbon dioxide monitoring using volunteer observing ship (NewCentry2) servicing between Japan and West Coast

## 1. IDENTIFICATION INFORMATION

Name	Atmosphere and ocean carbon dioxide monitoring using volunteer observing ship (NewCentry2) servicing between Japan and West Coast
Metadata Identifier	NewCentry220230727073149-DIAS20221121113753-en

## 2. CONTACT

### 2.1 CONTACT on DATASET

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### 2.2 CONTACT on PROJECT

#### 2.2.1 Data Integration and Analysis System

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## 5. DATE OF THIS DOCUMENT

2023-07-27

## 6. DATE OF DATASET

publication : 2015-11-16

## 7. DATASET OVERVIEW

### 7.1 Abstract

Data of atmosphere and ocean carbon dioxide monitoring using volunteer observing ship (NewCentury2) servicing between Japan and West Coast. This data contains the cruise track, carbon dioxide variables in the lower atmosphere and surface ocean, parameters of atmosphere (temperature, humidity, wind speed, radiation, and air pressure) and ocean (sea surface temperature, sea surface salinity).

### 7.2 Topic Category(IS019139)

oceans

### 7.3 Temporal Extent

Begin Date	2014-04-11
End Date	Under Continuation

### 7.4 Geographic Bounding Box

North latitude	bound	60
West longitude	bound	120
Eastbound longitude		-70
South latitude	bound	-28

### 7.5 Grid

### 7.6 Geographic Description

### 7.7 Keywords

## 7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Oceans > Ocean Chemistry > Carbon Dioxide, Atmosphere > Atmospheric Chemistry > Carbon and Hydrocarbon Compounds > Carbon Dioxide, Atmosphere > Atmospheric Pressure > Sea Level Pressure	GCMD_science
theme	In Situ Ocean-based Platforms > SHIPS,	GCMD_platform
theme	二酸化炭素, CO2分圧, CO2, 貨物船, 海洋表層, 洋上大気CO2	No_Dictionary
theme	Carbon Dioxide Concentration, Carbon Dioxide Partial Pressure, Ocean Salinity, Surface Atmospheric Pressure (= surface pressure), Sea Surface Temperature, Carbon in Subsurface Ocean	GEO_COP

## 7.7.2 Keywords on Project

### 7.7.2.1 Data Integration and Analysis System

Keyword Type	Keyword	Keyword thesaurus Name
theme	DIAS &gt; Data Integration and Analysis System	No_Dictionary

## 7.8 Online Resource

Description of NewCentury2: General description, Measurement method, description of measurement instruments, etc. : <http://nc2.soop.jp/>

variable information : <http://nc2.soop.jp/data/pub/desc/>

NIES CGER website : [http://db.cger.nies.go.jp/gem/moni-e/warm/N\\_Pacific/jc01.html](http://db.cger.nies.go.jp/gem/moni-e/warm/N_Pacific/jc01.html)

File download form the DIAS : <https://data.diasjp.net/dl/storages/filelist/dataset:258>

## 7.9 Data Environmental Information

## 7.10 Distribution Information

name	version	specification
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## 8. DATA PROCESSING

## 9. DATA REMARKS

## 10. DATA POLICY

### 10.1 Data Policy by the Data Provider

Observation data is copyrighted to Center for Global Environmental

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Research (CGER), National Institute for Environmental Studies (NIES).

You can use the data only for noncommercial purpose. For any publication using data, CGER/NIES must be informed and its approval must be obtained prior to publishing. The data provider may request co-authorship or acknowledgements. Please be informed that we have no concern with your cost by using the data.

## 10.2 Data Policy by the Project

### 10.2.1 Data Integration and Analysis System

If data provider does not have data policy, DIAS Terms of Service (<https://diasjp.net/en/terms/>) and DIAS Privacy Policy (<https://diasjp.net/en/privacy/>) apply.

If there is a conflict between DIAS Terms of Service and data provider's policy, the data provider's policy shall prevail.

## 11. LICENSE

## 12. DATA SOURCE ACKNOWLEDGEMENT

### 12.1 Acknowledge the Data Provider

### 12.2 Acknowledge the Project

#### 12.2.1 Data Integration and Analysis System

If you plan to use this dataset for a conference presentation, paper, journal article, or report etc., please include acknowledgments referred to following examples. If the data provider describes examples of acknowledgments, include them as well.

" In this study, [Name of Dataset] provided by [Name of Data Provider] was utilized. This dataset was also collected and provided under the Data Integration and Analysis System (DIAS), which was developed and operated by a project supported by the Ministry of Education, Culture, Sports, Science and Technology. "

## 13. REFERENCES

Murphy, P. P., K. K. Kelly, R. A. Feely, and R. H. Gammon (1995): Carbon dioxide concentrations in surface water and the atmosphere

during 1986-1989 NOAA/PMEL cruises in the Pacific and Indian Oceans (Oak Ridge Natl. Lab., Oak Ridge, TN), Rep. NRNL/CDIAC-75

NDP-047. Murphy, P. P., Y. Nojiri, Y. Fujinuma, C. S. Wong, J. Zeng, T. Kimoto, and H. Kimoto (2001): Measurements of surface seawater fCO<sub>2</sub> from volunteer commercial Ship: Techniques and experiences from Skaugran. *J. Atmospheric and Oceanic Technology*, 18, 1719-1734

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