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

1. IDENTIFICATION INFORMATION

Name	Atmosphere carbon dioxide monitoring using volunteer observing ship (Skaubryn) servicing between Japan and West Coast
Metadata Identifier	Skaubryn20230727071222-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 : 2013-02-03

7. DATASET OVERVIEW

7.1 Abstract

Data of atmosphere and ocean carbon dioxide monitoring using volunteer observing ship (Skaubryn) servicing between Japan and West Coast.. This data contains the cruise track, carbon dioxide variables in the lower atmosphere, parameters of atmosphere (temperature, humidity, wind speed, and air pressure). Also, Ozone was measured.

Header description:

yyyymmdd: date (year-month-day) GMT

hhmmss: time (hour-min-sec) GMT

utc: serial time since January 1 1900

Lat: latitude(degree N)

Lon: longitude(degree E)

ShipSpeed(KT): ship speed knots

Gyro Room Press cal(hPa): Sea Level Pressure (hPa)

Outside Temp(deg C): air temperature on the deck(Celsius)

Outside Hum(%RH): relative humidity on the deck

Air xCO2 cal: atmospheric xCO2(ppm)

SD_Air xCO2: standard deviation of Air xCO2

Flag: 0: SD&amp;amp;amp;amp;lt; 0.3; 1: SD&amp;amp;amp;amp;lt;1.0; blank: SD = 1.0 or more (value eliminated)

A_Bottle Name: bottle name of sampling air

O3 ppb: Ozone (ppb)

SD standard deviation of O3

B_Bottle Name: bottle name of sampling air

7.2 Topic Category(ISO19139)

oceans

7.3 Temporal Extent

Begin Date	2005-05-04
End Date	2010-07-14
Temporal Characteristics	10minute

7.4 Geographic Bounding Box

North bound latitude	60
West bound longitude	120
Eastbound longitude	-115
South bound latitude	30

7.5 Grid

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Atmosphere > Atmospheric Chemistry > Carbon and Hydrocarbon Compounds, Oceans > Ocean Chemistry > Carbon Dioxide	GCMD_science

7.7.2 Keywords on Project

7.7.2.1 Data Integration and Analysis System

Keyword Type	Keyword	Keyword thesaurus Name
theme	DIAS > Data Integration and Analysis System	No_Dictionary

7.8 Online Resource

NIES CGER website : http://db.cger.nies.go.jp/gem/moni-e/warm/N_Pacific/jc01.html

NIES VOS website : http://soop.jp/

DIAS data download site : https://data.diasjp.net/dl/storages/filelist/dataset:226

7.9 Data Environmental Information

7.10 Distribution Information

name	version	specification

8. DATA PROCESSING

8.1 Data Processing (1)

8.1.1 General Explanation of the data producer's knowledge about the lineage of a dataset

8.1.2 Data Source

Data Source Citation Name	Description of derived parameters and processing techniques used

9. DATA REMARKS

10. DATA POLICY

10.1 Data Policy by the Data Provider

Observation data is copyrighted to Center for Global Environmental

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 fCO2 from volunteer commercial Ship: Techniques and experiences from Skaugran. J. Atmospheric and Oceanic Technology, 18, 1719-1734

Murphy, P. P., Y. Nojiri, Y. Fujinuma, C. S. Wong, J. Zeng, T. Kimoto, and H. Kimoto (2001): Measurements of surface seawater fCO2 from volunteer commercial Ship: Techniques and experiences from Skaugran. J. Atmospheric and Oceanic Technology, 18, 1719-1734.