



# Atmospheric carbon dioxide monitoring using volunteer observing ship (Fuji Trans World) servicing between Japan and Oceania

## 1. IDENTIFICATION INFORMATION

Name	Atmospheric carbon dioxide monitoring using volunteer observing ship (Fuji Trans World) servicing between Japan and Oceania
Metadata Identifier	FujiTransWorld20230727070314-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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## 4. DATASET CREATOR

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## 5. DATE OF THIS DOCUMENT

2023-07-27

## 6. DATE OF DATASET

creation : 2013-02-04

## 7. DATASET OVERVIEW

### 7.1 Abstract

Data of atmosphere carbon dioxide monitoring using volunteer observing ship (Fuji Trans World) servicing between Japan and Oceania. This data contains the cruise track, carbon dioxide variables in the sea level atmosphere, parameters of atmosphere (temperature, humidity, and solar radiation)

### 7.2 Topic Category(IS019139)

oceans

### 7.3 Temporal Extent

Begin Date	2003-02-14
End Date	2005-11-10

### 7.4 Geographic Bounding Box

North latitude	bound	36
West longitude	bound	135
Eastbound longitude		160
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	Atmosphere > Atmospheric Chemistry > Carbon and Hydrocarbon Compounds > Carbon Dioxide	GCMD_science
theme	In Situ Ocean-based Platforms > SHIPS	GCMD_platform

## 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

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)

Discriptin of Fuji Trans World: General discription, Measurement method, discription of measurement instruments, etc. : <http://ftw-oceania.soop.jp/>

variable information : <http://ftw-oceania.soop.jp/data/pub/desc/>

data download : <https://data.diasjp.net/dl/storages/filelist/dataset:212>

## 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 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

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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

Tohjima, H. Mukai, T. Machida, Y. Nojiri, M. Gloor (2005):

First measurements of the latitudinal atmospheric O<sub>2</sub> and CO<sub>2</sub> distributions across the western Pacific:

Geophysical Research Letters. 01/2005; 32(17). DOI:10.1029/2005GL023311

Terao Y., Mukai H., Nojiri Y., Machida T., Tohjima Y., Saeki T., Maksyutov S. (2011) Interannual variability and trends in atmospheric methane over the western Pacific from 1994 to 2010. Journal of Geophysical Research, 116