J-OFUR03 Ver.1.2

1. IDENTIFICATION INFORMATION

Name	J-OFUR03 Ver.1.2
DOI	doi:10.20783/DIAS.667 [https://doi.org/10.20783/DIAS.667]
Metadata Identifier	JOFUR03_V1_220240903120501-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

Name	Hiroyuki Tomita

5. DATE OF THIS DOCUMENT

2024-09-03

6. DATE OF DATASET

creation : 2024-04-01

7. DATASET OVERVIEW

7.1 Abstract

This is the third-generation dataset of the Japanese Ocean Flux Data Sets with Use of Remote Sensing Observations (J-OFURO), a research project on ocean surface flux estimation based on satellite observations. It provides ocean surface heat, momentum, freshwater fluxes, and its related state variable data based on satellite observations covering the global ocean except for the sea ice region. V1.2 (this version) is an extension of V1.1, which was released in 2021, with some improvements to the estimation method and updated source data.

7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

environment

oceans

7.3 Temporal Extent

Begin Date	1988-01-01
End Date	2022-12-31

7.4 Geographic Bounding Box

North bound latitude	90
West bound longitude	-180
Eastbound longitude	180
South bound latitude	-90

7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
row	1440	0.25 (deg)
column	720	0.25 (deg)
time		daily, monthly (day)

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	OCEANOGRAPHY PHYSICAL > Air/sea interactions, ATMOSPHERIC PROCESSES > Ocean/atmosphere interactions	AGU
theme	Oceans > Ocean Heat Budget > Heat Flux, Oceans > Ocean Circulation > Wind-driven Circulation, Oceans > Ocean Winds > Surface Winds, Oceans > Ocean Temperature > Sea Surface Temperature, Atmosphere > Atmospheric Water Vapor > Humidity	GCMD_science
theme	Climate, Water, Energy	GEOSS

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

Official web page : https://www.j-ofuro.com

File download : https://data.diasjp.net/dl/storages/filelist/dataset:667

7.9 Data Environmental Information

7.10 Distribution Information

name	version	specification

8. DATA PROCESSING

9. DATA REMARKS

10. DATA POLICY

10.1 Data Policy by the Data Provider

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

 CC-BY 4.0 : Creative Commons Attribution 4.0 International [https://creativecommons.org/licenses/by/4.0/]

12. DATA SOURCE ACKNOWLEDGEMENT

12.1 Acknowledge the Data Provider

If you use J-OFURO3 dataset for your research and publications, please cite the following papers:

Tomita, H., T. Hihara, S. Kako, M. Kubota, K. Kutsuwada (2019): An introduction to J-OFURO3, a third-generation Japanese ocean flux data set using remote-sensing observations, J. Oceanogr, 75, 171-194 doi:10.1007/s10872-018-0493-x

Tomita, H., K. Kutsuwada, M. Kubota, and T. Hihara (2021): Advances in the Estimation of Global Surface Net Heat Flux Based on Satellite Observation: J-OFURO3 V1.1, Front. Mar. Sci, 8,8 doi:10.3389/fmars.2021.612361

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

An introduction to J-OFURO3, a third-generation Japanese ocean flux data set using remote-sensing observations

Hiroyuki Tomita, Tsutomu Hihara, Shin' ichiro Kako, Masahisa Kubota, Kunio Kutsuwada

Journal of Oceanography (2019) 75:171-194

https://doi.org/10.1007/s10872-018-0493-x