DIASFORP-JPN02

1. IDENTIFICATION INFORMATION

Name	FORP-JPN02
Edition	Version 4
DOI	doi:10.20783/DIAS.656 [https://doi.org/10.20783/DIAS.656]
Metadata Identifier	FORP_JPN02_version420221220143147-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	Center for Earth Information Science and Technology, Japan Agency for Marine-Earth Science and Technology

5. DATE OF THIS DOCUMENT

2022-12-20

6. DATE OF DATASET

7. DATASET OVERVIEW

7.1 Abstract

Future Ocean Regional Projection (FORP) datasets were produced by high-resolution regional ocean model simulations with ensemble atmospheric forcings from Coupled Model Intercomparison Project Phase 5 (CMIP5) models and scenarios. These were developed by the Japan Agency for Marine-Earth Science and Technology (JAMSTEC) and Meteorological Research Institute, Japan Meteorological Agency. The development of FORP were supported by Social Implementation Program on Climate Change Adaptation Technology (SI-CAT, grant no.: JPMXD0715667163) and Integrated Research Program for Advancing Climate Models (TOUGOU, grant no.: JPMXD0717935561), the Ministry of Education, Culture, Sports, Science and Technology (MEXT). Meteorological Research Institute Community Ocean Model version 4 (MRI.COMv4; Tsujino et al. 2017) was used for the regional ocean models.

FORP-JPN02 is a historical and future ocean projection dataset in the region surrounding Japan with an approximately 2 km horizontal resolution, produced by dynamical downscaling simulation for several time slices from FORP-NP10 data. FORP-JPN02 version 4 was from the dynamical downscaling of FORP-NP10 version 4. The time slices of the FORP-JPN02 version1 are

1991-2018 from the JRA-55 historical simulation.

1991-2005 from the historical run of MIROC5.

1991-2005 from the historical run of MRI-CGCM3.

2086-2100 from the RCP2.6 run of MIROC5.

2086-2100 from the RCP2.6 run of MRI-CGCM3.

2041-2055, 2086-2100 from the RCP8.5 run of MIROC5.

2041-2055, 2086-2100 from the RCP8.5 run of MRI-CGCM3.

7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

environment

oceans

7.3 Temporal Extent

Begin Date	1991-01-01
End Date	2100-12-31
Temporal Characteristics	Hourly and Daily

7.4 Geographic Bounding Box

North bound latitude	52
West bound longitude	117

Eastbound longitude	160	
South bound latitude	20	

7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
row	1423	1/33 (deg)
column	1604	1/50 (deg)
vertical	60	variable (m)

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Oceans > Ocean Temperature, Oceans > Ocean Circulation, Oceans > Coastal Processes	GCMD_science
theme	Models > GCM	GCMD_platform
theme	Climate	GEOSS

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

file download : https://data.diasjp.net/dl/storages/filelist/dataset:656

7.9 Data Environmental Information

7.10 Distribution Information

name	version	specification

NetCDF	4	

8. DATA PROCESSING

9. DATA REMARKS

10. DATA POLICY

10.1 Data Policy by the Data Provider

1. The dataset can use under the public license CC BY 4.0.

2. The author should be cited following paper in scientific and technical papers, or publications: Nishikawa et al. 2021, Development of high-resolution future ocean regional projection datasets for coastal applications in Japan. Progress in Earth and Planetary Science, 8:7, https://doi.org/10.1186/s40645-020-00399-z

3. The source of the datasets should be duly acknowledged in scientific and technical papers, publications, and other communications regarding the datasets. Example: The dataset used for this study is from Future Ocean Regional Projection (FORP) project carried out by Japan Agency for Marine-Earth Science and Technology, and the Meteorological Research Institute, the Japan Meteorological Agency (JMA).

4. Individual users should provide JAMSTEC with a copy of their scientific or technical papers, publications, or other communications regarding these datasets.

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

This study utilized the dataset 'Future Ocean Regional Projection' (FORP), which was produced by the Japan Agency for Marine-Science and Technology (JAMSTEC) and the Meteorological Research Institute, the Japan Meteorological Agency under the 'SI-CAT' project (Grant Number: JPMXD0715667163) and the

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

Nishikawa et al. 2021, Development of high-resolution future ocean regional projection datasets for coastal applications in Japan. Progress in Earth and Planetary Science, 8:7, https://doi.org/10.1186/s40645-020-00399-z