DIAS Regional Ocean Renalysis -1/4degree North Pacific

1. IDENTIFICATION INFORMATION

Name	Regional Ocean Renalysis -1/4degree North Pacific
Edition	v0.0
Abbreviation	ODA_rNPhigh0.0
Metadata Identifier	ODA_rNPhigh20230727075409-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

revision : 2008-01-30

7. DATASET OVERVIEW

7.1 Abstract

This regional 4D-VAR data assimilation system used here is based on Masuda et al. [2003] covering the global ocean. The OGCM is version 3 of the GFDL Modular Ocean Model (MOM; Pacanowski and Griffies, 1999), which is equipped with several sophisticated parameterization schemes, for example, nonlocal K Profile Parameterization (Large et al., 1994) for mixed layer physics, Gent and McWilliams's scheme (Gent and McWiiliams, 1990) for isopycnal mixing, and quicker advection scheme (Leonald, 1979).

The horizontal resolution is 1/4 in both latitude and longitude, with 45 vertical levels spaced from 10m near the sea surface to 400m at the bottom.The assimilated elements in this study are the temperature and salinity from the World Ocean Database 1998 (for climatologies) and the World Ocean Database 2001. This dataset is an estimate of climatorogical seasonal cycle of dynamical ocean state.

7.2 Topic Category(ISO19139)

oceans

7.3 Temporal Extent

Begin Date	0000-01-01
End Date	0000-12-31
Temporal Characteristics	monthly,10day (,daily)

7.4 Geographic Bounding Box

North bound latitude	65
West bound longitude	85
Eastbound longitude	-65
South bound latitude	-30

7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
row	840	0.25 (deg)

column	380	0.25 (deg)
vertical	45	2.5-400 (m)

7.6 Geographic Description

North Pacific Ocean

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Ocean, Reanalysis	GODAE

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

: http://www.jamstec.go.jp/e/medid/dias/kadai/clm/clm_kadai.html

7.9 Data Environmental Information

The assimilated elements in this study are all the long term climatology.

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

If you would like to use this data, please contact us including your name, affiliation, and purpose. The e-mail contact form is https://www.jamstec.go.jp/dias/e/user/contact_input.do

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