



Ocean Renalysis

1. IDENTIFICATION INFORMATION

Name	Ocean Renalysis
Edition	v3.1
Abbreviation	DIAS_ODAPv3.1
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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 : 2008-06-05

7. DATASET OVERVIEW

7.1 Abstract

The 4D-VAR assimilation system used here is the same as in 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 McWilliams, 1990) for isopycnal mixing, and quicker advection scheme (Leonald, 1979).

The horizontal resolution is lin both latitude and longitude, with 36 vertical levels spaced from 10m near the sea surface to 400m at the bottom.

This model has good capability to reproduce ocean circulation processes and is expected to form a platform suitable for the use of the 4D-VAR adjoint model.

The assimilated elements in this study are the temperature and salinity from the World Ocean Database 1998 (for climatologies) and the FNMOC, OI SST values, and sea-surface dynamic-height anomaly data compiled by AVISO. All observational data were averaged onto 1 degree by 1 degree bins and then compiled as series of 10-day means for the surface data and monthly means for the subsurface data.

7.2 Topic Category(IS019139)

oceans

7.3 Temporal Extent

Begin Date	1991-01-01
End Date	2006-12-31
Temporal Characteristics	monthly

7.4 Geographic Bounding Box

North latitude	bound	80
West longitude	bound	-180
Eastbound longitude		180
South latitude	bound	-75

7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
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row	360	1 (deg)
column	155	1 (deg)
vertical	36	10-400 (m)

7.6 Geographic Description

global

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

File Download : <https://data.diasjp.net/dl/storages/filelist/dataset:31>

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

[Reference Requirement]The data used in this study have been obtained from the Data Server of "Kyousei" category #7 (k7) of "RR2002: Project for Sustainable Coexistence of Human, Nature, and the Earth" sponsored by MEXT.

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