TRITON Data

1. IDENTIFICATION INFORMATION

Name	TRITON Data
Metadata Identifier	TRITON20240531093115-DIAS20221121113753-en

2. CONTACT

2.1 CONTACT on DATASET

Name	Data Management Office
Organization	Japan Agency for Marine-Earth Science and Technology
Address	3173-25, Showa-machi, Kanazawa-ku, Yokohama, Kanagawa, 236-0001, Japan
E-mail	dmo at jamstec.go.jp

2.2 CONTACT on PROJECT

2.2.1 Data Integration and Analysis System

Name	DIAS Office
Organization	Japan Agency for Marine-Earth Science and Technology
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3. DOCUMENT AUTHOR

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4. DATASET CREATOR

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Organization	Japan Agency for Marine-Earth Science and Technology
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5. DATE OF THIS DOCUMENT

2024-05-31

6. DATE OF DATASET

publication : 2010-05-18

7. DATASET OVERVIEW

7.1 Abstract

Japan Agency for Marine-Earth Science and Technology (JAMSTEC) has developed Triangle Trans-Ocean Buoy Network (TRITON) buoy in 1998, and nearly 20 moorings have been deployed in the western tropical Pacific and eastern tropical Indian Ocean. These moorings in Pacific Ocean make Tropical Atmosphere Ocean (TAO)/TRITON array in cooperation with Pacific Marine Environmental Laboratory (PMEL) and National Data Buoy Center (NDBC) in National Ocean and Atmospheric Administration (NOAA) in United States. On the other hand, the moorings in Indian Ocean make Research moored Array for African-Asia-Australian Monsoon Analysis and prediction (RAMA) array as a multinational effort for Indian Ocean Observing System. These arrays are a part of Global Climate Observing system (GCOS), Global Ocean Observing System (GOOS) and Global Earth Observing System (GEOSS).

Each buoy measures temperature, salinity, mixed layer currents for oceanic variables, and wind temperature, relative humidity, barometric pressure, precipitation and short wave radiation for meteorological variables. These measured variables is essential for monitoring, understanding and forecasting of short-term climatic phenomena, such as El Nino and southern oscillation and Indian Ocean dipole event.

Data and graphic displays from these arrays are updated every day, and freely available to use for research, operational forecasting, educational activities and so on. For more detailed information, please refer TRITON and IOMICS web sites.

TRITON : http://www.jamstec.go.jp/jamstec/TRITON/real_time/

IOMICS : http://wwwjamstec.go.jp/iorgc/iomics/

7.2 Topic Category(ISO19139)

oceans

7.3 Temporal Extent

Begin Date	1998-03-01
End Date	2010-03-31

7.4 Geographic Bounding Box

North bound latitude	8
West bound longitude	90
Eastbound longitude	156
South bound latitude	-5

7.5 Grid

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Oceans > Ocean Temperature > Water Temperature, Oceans > Salinity/Density > Conductivity, Oceans > Ocean Temperature > Sea Surface Temperature, Oceans > Ocean Circulation > Ocean Currents, Oceans > Ocean Heat Budget > Shortwave Radiation, Oceans > Ocean Winds > Surface Winds, Atmosphere > Atmospheric Water Vapor > Humidity, Atmosphere > Atmospheric Pressure > Surface Pressure, Atmosphere > Atmospheric Temperature > Air Temperature, Atmosphere > Precipitation > Precipitation Rate, Oceans > Salinity/Density > Salinity, Oceans > Salinity/Density > Density, Oceans > Sea Surface Topography > Sea Surface Height, Oceans > Bathymetry/Seafloor Topography > Water Depth	GCMD_science
theme	TRITON	project

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

Triangle Trans Ocean Buoy Network : http://www.jamstec.go.jp/jamstec/TRITON/real_time/php/top.php

IOMICS (Indian Ocean Moored buoy network Initiative for Climate Studies) : http://www.jamstec.go.jp/iorgc/iomics/index.html

file download : https://data.diasjp.net/dl/storages/filelist/dataset:138

7.9 Data Environmental Information

7.10 Distribution Information

name	version	specification
CSV	no information	

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

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

Publication list

http://www.jamstec.go.jp/jamstec/TRITON/real_time/overview.php/po-o4.php