



# CEOP Satellite Datasets ( TRMM > TMI > 2PRECI )

## 1. IDENTIFICATION INFORMATION

Name	CEOP Satellite Datasets ( TRMM > TMI > 2PRECI )
Edition	1.0
Abbreviation	Coordinated Energy and Water-Cycle Observation Project Satellite Datasets ( TRMM > TMI > 2PRECI )
DOI	doi:10.20783/DIAS.44 [ <a href="https://doi.org/10.20783/DIAS.44">https://doi.org/10.20783/DIAS.44</a> ]
Metadata Identifier	CEOP_Satellite_TRMM_TMI_2PRECI20230727051554-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

creation : 2010-03-15

## 7. DATASET OVERVIEW

### 7.1 Abstract

Three scale-types of datasets observed by new generation of remote sensing satellites (including TERRA, AQUA, ADEOS-II) in addition to TRMM and DMSP series, which were providing enhancement of observing capabilities to quantify critical atmospheric, surface, hydrologic and oceanographic data during CEOP time periods are available. 250 km square snapshots of the highest resolution raw radiances (with geographic location, i.e. level 1) remote sensing data at the 35-51 in situ reference sites are archived.

#### ■Mission

TRMM

Tropical Rainfall Measuring Mission

##### • Applications

3-year nominal mission life, currently in extended operations. Atmospheric dynamics/water and energy cycles

#### ■Instrument

TRMM Microwave Imager

##### • Instrument Type

Imaging multi-spectral radiometers (passive microwave)

##### • Measurements &&&&& Applications

Measures rainfall rates over oceans (less reliable over land), combined rainfall structure and surface rainfall rates with associated latent heating. Used to produce monthly total rainfall maps over oceans

#### ■Instrument Measurements

##### • Product Level

L2

##### • Product Code

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2PRECI

· Description

Surface rain, Cloud ice/liquid water, Precipitation ice/water

## 7.2 Topic Category(IS019139)

climatologyMeteorologyAtmosphere

## 7.3 Temporal Extent

Begin Date	2002-10-01
End Date	2009-12-31

## 7.4 Geographic Bounding Box

North latitude bound	40
West longitude bound	-180
Eastbound longitude	180
South latitude bound	-40

## 7.5 Grid

## 7.6 Geographic Description

## 7.7 Keywords

### 7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Atmosphere > Precipitation > Rain	GCMD_science

### 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

CEOP : <http://www.ceop.net/>

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CEOP Model Output Archive : <http://www.eol.ucar.edu/projects/ceop/dm/model/>

CEOP Model Output Data Gateway : <http://ceop.wdc-climate.de>

CEOP Data Management : <http://www.eol.ucar.edu/projects/ceop/dm/>

CEOP Model Data Gateway : <http://www.mad.zmaw.de/projects-at-md/ceop/>

CEOP Model Center Documentation Table : [http://www.eol.ucar.edu/projects/ceop/dm/model/model\\_table.html](http://www.eol.ucar.edu/projects/ceop/dm/model/model_table.html)

Multi-model Analysis for CEOP : <http://gmao.gsfc.nasa.gov/research/modeling/validation/ceop.php>

MODIS : <http://modis.gsfc.nasa.gov/>

AMSR-E : <http://sharaku.eorc.jaxa.jp/AMSR/index.html>

SSM/I : <http://ghrc.nsstc.nasa.gov/>

PR, TMI : <http://trmm.gsfc.nasa.gov/>

AVNIR2, PALSAR, PRISM : <http://www.eorc.jaxa.jp/ALOS/en/index.htm>

JAXA : <http://www.satnavi.jaxa.jp/project/trmm/index.html>

From CEOS Mission, Instruments, Measurement Database : <http://database.eohandbook.com/>

Mim Wiki (Shibasaki Group) : <http://dias.csis.u-tokyo.ac.jp/dict/mim/index.php/TRMM>

Mim Wiki (Shibasaki Group) : <http://dias.csis.u-tokyo.ac.jp/dict/mim/index.php/TMI>

Data Download : <https://data.diasjp.net/dl/storages/filelist/dataset:44>

## 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

1. No financial implications are involved for the CEOP satellite data exchange.
2. Commercial use and exploitation of CEOP satellite data is prohibited.
3. Any re-export or transfer of the original data received from the CEOP satellite data archive to a third party is prohibited.
4. The origin of CEOP satellite data being used for publication of scientific results must be acknowledged and referenced in the publication. Whenever CEOP satellite data distributed by the CEOP satellite data archive are being used for publication of scientific results, the data's origin

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must be acknowledged as: ""The satellite data is provided under the framework of the Coordinated Enhanced Observing Period (CEOP)."" for the Coordinated Enhanced Observing Period data (2001 - 2004), and as: ""The satellite data is provided under the framework of the Coordinated Energy and Water Cycle Observations Project (CEOP)."" for the Coordinated Energy and Water Cycle Observations Project data (2005 ~).

5. Whenever CEOP satellite data distributed by the CEOP satellite data archive are being used for publication of scientific results, the author(s) shall send a copy of the respective publication, preferably in electronic form, to the CEOP satellite data archive (ceop@monsoon.t.u-tokyo.ac.jp) in order to build up a CEOP publication library

Complete version of the CEOP Satellite Data Policy is <http://monsoon.t.u-tokyo.ac.jp/ceop2/satellite/guideline-info.html>."

A minimum requirement is to reference CEOP as:

"The satellite data is provided under the framework of the Coordinated Energy and Water Cycle Observations Project (CEOP)."

for the Coordinated Energy and Water Cycle Observations Project data (2005),

and as:

"The satellite data is provided under the framework of the Coordinated Enhanced Observing Period (CEOP)."

for the Coordinated Enhanced Observing Period data (2001 - 2004).

## 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.

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” 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