



# CEOP Satellite Datasets ( Aqua > AMSR-E > 3SSTEM )

## 1. IDENTIFICATION INFORMATION

|                     |                                                                                                          |
|---------------------|----------------------------------------------------------------------------------------------------------|
| Name                | CEOP Satellite Datasets ( Aqua > AMSR-E > 3SSTEM )                                                       |
| Edition             | 1.0                                                                                                      |
| Abbreviation        | Coordinated Energy and Water-Cycle Observation Project Satellite Datasets<br>( Aqua > AMSR-E > 3SSTEM )  |
| DOI                 | doi:10.20783/DIAS.58 [ <a href="https://doi.org/10.20783/DIAS.58">https://doi.org/10.20783/DIAS.58</a> ] |
| Metadata Identifier | CEOP_Satellite_Aqua_AMSR_E_3SSTEM20230727052514-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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## 3. DOCUMENT AUTHOR

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## 4. DATASET CREATOR

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| Name         | JAXA DIAS representative           |
| Organization | Japan Aerospace Exploration Agency |
| E-mail       | dias at ml dot jaxa dot jp         |

## 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

Aqua (formerly EOS PM-1)

##### · Applications

6-year nominal mission life, currently in extended operations. Atmospheric dynamics/water and energy cycles, cloud formation, precipitation and radiative properties, air/sea fluxes of energy and moisture, sea ice extent and heat exchange with the atmosphere. Option of 705km or 438km orbit altitude.

#### ■Instrument

Advanced Microwave Scanning Radiometer-EOS

##### · Instrument Type

Imaging multi-spectral radiometers (passive microwave)

##### · Measurements & Applications

Measurements of water vapour, cloud liquid water, precipitation, winds, sea surface temperature, sea ice concentration, snow cover and soil moisture

#### ■Instrument Measurements

##### · Product Level

L3

##### · Product Code

3SSTEM

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· Description

Sea surface temperature

## 7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

## 7.3 Temporal Extent

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

## 7.4 Geographic Bounding Box

|                      |      |
|----------------------|------|
| North latitude bound | 90   |
| West longitude bound | -180 |
| Eastbound longitude  | 180  |
| South latitude bound | -90  |

## 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 > Sea Surface Temperature | 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/aqua/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/Aqua>

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

file download : <https://data.diasjp.net/dl/storages/filelist/dataset:58>

## 7.9 Data Environmental Information

### 7.10 Distribution Information

| name | version | specification |
|------|---------|---------------|
|------|---------|---------------|

## 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

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CEOP satellite data archive are being used for publication of scientific results, the data's origin 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