


CEOP CAMP Korean Peninsula Reference Site

1. IDENTIFICATION INFORMATION

Name	CEOP CAMP Korean Peninsula Reference Site
Metadata Identifier	CEOP_CAMP_Korean_Peninsula20221122133717-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

2022-11-22

6. DATE OF DATASET

creation : 2010-05-06

7. DATASET OVERVIEW

7.1 Abstract

The objectives of CAMP Korean-Peninsula DK site as a part of KoFLUX are (1) to understand the mechanisms controlling the exchange of CO₂, water vapor and energy between the atmosphere and broadleaf deciduous forest and (2) to provide ground information for validating estimates of net primary productivity, evapotranspiration, and energy absorption that are being generated by various biosphere models and sensors on the satellite.

7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

Begin Date	2002-10-01 00:00:00
End Date	2003-03-31 23:59:59
Temporal Characteristics	30minute

7.4 Geographic Bounding Box

North latitude	bound	37.740000
West longitude	bound	127.140000
Eastbound longitude		127.140000
South latitude	bound	37.740000

7.5 Grid

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Climate, Water	GEOSS

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.eol.ucar.edu/projects/ceop/dm/insitu/sites/ceop_ap/Korean_Peninsula/DK/

file download : <https://data.diasjp.net/dl/storages/filelist/dataset:115>

7.9 Data Environmental Information

7.10 Distribution Information

name	version	specification
PRN	no information	CEOP Unified Format

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

Station Pressure, Air Temperature, U wind component, V wind component, Wind direction, Incoming Short wave, Outgoing Short wave, Incoming Long wave and Outgoing Long wave are averaged over the previous 30 minutes.

And the Dew Point Temperature, Specific Humidity and Net radiation is computed by using "CEOP Derived Parameter Equations:

http://www.joss.ucar.edu/ghp/ceopdm/refdata_report/eqns.html". Also put the data flag "I",

Dew Point Temperature was computed by using (Bolton 1980):

$$e_s = 6.112 * \exp((17.67 * T)/(T + 243.5));$$

$$e = e_s * (RH/100.0);$$

$$T_d = \log(e/6.112)*243.5/(17.67-\log(e/6.112));$$

where:

T = temperature in deg C;
 es = saturation vapor pressure in mb;
 e = vapor pressure in mb;
 RH = Relative Humidity in percent;
 Td = dew point in deg C

Specific Humidity was computed by using (Bolton 1980):

$$e = 6.112 * \exp((17.67 * Td) / (Td + 243.5));$$

$$q = (0.622 * e) / (p - (0.378 * e));$$

where:

e = vapor pressure in mb;
 Td = dew point in deg C;
 p = surface pressure in mb;
 q = specific humidity in kg/kg.

NET radiation (GEMPAK):

$$\text{NET_radiation} = \text{down (in) short} + \text{down (in) long} - \text{up (out) short} - \text{up (out) long};$$

8.1.2 Data Source

Data Source Citation Name	Description of derived parameters and processing techniques used
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9. DATA REMARKS

10. DATA POLICY

10.1 Data Policy by the Data Provider

1. No financial implications are involved for the CEOP reference site data exchange.
2. Commercial use and exploitation of CEOP reference site data is prohibited.
3. Any re-export or transfer of the original data received from the CDA archive to a third party is prohibited.
4. The origin of CEOP reference site data being used for publication of scientific results must be acknowledged and referenced in the publication.
5. CEOP reference site data users are strongly encouraged to establish direct contact with data providers for complete interpretation and analysis of data for publication purposes.
6. Co-authorship of data users and CEOP reference site Principle Investigators on papers making extensive use of CEOP data is justifiable and highly recommended.

see http://www.eol.ucar.edu/projects/ceop/dm/documents/ceop_policy.html

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

A minimum requirement is to reference CEOP as:

The in-situ 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).

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

Original data was collected and is provided by the Ministry of Environment of Korea through "The Eco-Technopia 21 Project" under the framework of Coordinated Enhanced Observation Period (CEOP) Asian Monsoon Project (CAMP).

Kim, J., W. Kim, C. Cho, B. Choi, H. Chung, B. Lee, K. Kim, K. Kim, M. Kim, B. Lee, D. Lee, G. Lee, J. Lee, J. Lim, J. Oh, E. Park, J. Shim, J. Yun, C. Rho, 2002, KOFLUX: A new tool to study the biosphere-atmosphere interactions in Asia, in Ecology of Korea edited by D. Lee, 215-229.

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