pias RECCA_AHO_Nagoya

1. IDENTIFICATION INFORMATION

Name	RECCA_AHO_Nagoya	
Edition	v1.0	
Abbreviation	H_Nagoya	
Metadata Identifier	RECCA_AHO_Nagoya20240612161444-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

Name	DIAS Office		
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3. DOCUMENT AUTHOR

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4. DATASET CREATOR

Name	Kazuya Hokari
Organization	AIST

5. DATE OF THIS DOCUMENT

2024-06-12

6. DATE OF DATASET

creation: 2014-04-22

7. DATASET OVERVIEW

7.1 Abstract

The anthropogenic heat was at first calculated by multiple linear regression analysis based on the technique of Kayaba et al. 1), by using the residential population and the number of employees on 1 / 2 area mesh of the Statistics Bureau, the Ministry of Internal Affairs and Communications in 2005 and 2006, and the trunk traffic lot area ratio of the digital national information in 2006.

Large anthropogenic heat from industrial sector in Nagoya city was added on the base data, which was retrieved from CO2 emissions in EAGrid2000 data of Kannari et al. 2), and calibrated with the data of Nagoya city 3). The data were arranged according to hourly variation of monthly mean.

7.2 Topic Category(IS019139)

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

Begin Date	2006-01-01	
End Date	008-12-31	
Temporal Characteristics	Monthly averaged hourly data	

7.4 Geographic Bounding Box

North latitude	bound	35. 333333
West longitude	bound	136.0
Eastbound longitude		137.0
South latitude	bound	34. 666667

7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	
row	160	0.375 (minute)
column	160	0.25 (minute)
time	24	60 (minute)

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name	
theme	Climate	GEOSS	
place	Asia > Eastern Asia > Japan	Country	
theme	Human Dimensions > Habitat Conversion/Fragmentation > Urbanization/Urban Sprawl, Human Dimensions > Environmental Impacts, Human Dimensions > Public Health > Environmental Health Factors		

7.7.2 Keywords on Project

7.7.2.1 Data Integration and Analysis System

Keyword Type	Keyword	Keyword thesaurus Name
theme	DIAS & amp;gt; Data Integration and Analysis System	No_Dictionary

7.8 Online Resource

Data download site in DIAS: https://data.diasjp.net/dl/storages/filelist/dataset:228

7.9 Data Environmental Information

The data consist of 12 csv files. Each file is monthly average of daily course of anthropogenic heat. The first line is the header. The first row is mesh code of the 1/4 area mesh of Ministry of Internal Affairs and Communications, and from the 2nd to the 25th row are anthropogenic heat (W/m2) of each hour. The row '1' is equivalent to the mean from 0:00 to 1:00 (JST). The size of the file for one month is 4.9MB.

7.10 Distribution Information

name	version	specification
csv	1.0	

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

Shown in the abstract.

8.1.2 Data Source

Data Source Citation Name	Description of derived parameters and processing
	techniques used

9. DATA REMARKS

Actual anthropogenic heat is variable day by day. The anthropogenic heat here underestimates by 17% for Nagoya city in total.

10. DATA POLICY

10.1 Data Policy by the Data Provider

The user can use this data freely except that he or she must acknowledge the use of this data(RECCA AHO Nagoya).

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

1) Kayaba et al. (2010)

http://www.jma.go.jp/jma//kishou/books/sokkou/77/vol77p137.pdf (in Japanese)

2) Kannari et al. (2007)

http://www.sciencedirect.com/science/article/pii/S1352231006012787

3) Nagoya city (2011)

http://www.city.nagoya.jp/kankyo/cmsfiles/contents/0000011/11334/zenbun2008.pdf (in Japanese)