GOSAT Data Products

1. IDENTIFICATION INFORMATION

Name	GOSAT Data Products
Metadata Identifier	GOSAT_Data_Products20230727091304-en

2. CONTACT

2.1 CONTACT on DATASET

Name	GOSAT Project
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2.2 CONTACT on PROJECT

3. DOCUMENT AUTHOR

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4. DATASET CREATOR

Name	GOSAT Project
Organization	Satellite Observation Center, National Institute for Environmental Studies
E-mail	gosat-prjl@nies.go.jp

5. DATE OF THIS DOCUMENT

2023-07-27

6. DATE OF DATASET

creation : 2016-01-22

7. DATASET OVERVIEW

7.1 Abstract

The Greenhouse Gases Observing Satellite "IBUKI" (GOSAT) is the world's first spacecraft to measure the concentrations of carbon dioxide and methane, the two major greenhouse gases, from space. The spacecraft was launched successfully on January 23, 2009, and has been operating properly since then. Through analyzing the GOSAT observational data, scientists will be able to ascertain the global distribution of carbon dioxide (CO2) and methane (CH4), and how the sources and sinks of these gases vary with seasons, years, and locations. These new findings will enhance scientific understanding on causes of global warming. Also, they will serve as fundamental information for improving climate change prediction and establishing sound plans for mitigating global warming. The GOSAT Project is a joint effort of the Ministry of the Environment of Japan (MOE), the National Institute for Environmental Studies (NIES), and the Japan Aerospace Exploration Agency (JAXA).

7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

Begin Date	2009-04-23
End Date	Under Continuation

7.4 Geographic Bounding Box

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

7.5 Grid

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Atmosphere > Atmospheric Chemistry > Carbon and Hydrocarbon Compounds > Carbon Dioxide, Atmosphere > Atmospheric Chemistry > Carbon and Hydrocarbon Compounds > Methane, Atmosphere > Atmospheric Water Vapor > Water Vapor	GCMD_science
theme	Earth Observation Satellites > GOSAT	GCMD_platform
theme	Climate	GEOSS

7.7.2 Keywords on Project

7.8 Online Resource

GOSAT Project : http://www.gosat.nies.go.jp/

GOSAT Data Archive Service (GDAS) : https://data2.gosat.nies.go.jp/

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

GOSAT products are provided through the data providing website, GOSAT Data Archive Service (GDAS), free of charge only when each GOSAT data user agrees upon the purpose, and the terms and conditions concerning the utilization of the GOSAT data defined in the GOSAT/GOSAT-2 Data Policy. The Ministry of Environment of Japan (MOE), the National Institute for Environmental Studies (NIES), and the Japan Aerospace Exploration Agency (JAXA) (hereafter collectively referred to as "Three Parties"), which are jointly promoting the GOSAT Project, shall own copyrights and any other intellectual property rights of all GOSAT data. Any publication of outcomes obtained in consequence of the use of the GOSAT data must be accompanied by the name of Three Parties, JAXA/NIES/MOE. Users are allowed to redistribute only standard products to a third party; however, users are prohibited to use other products for any other purpose than the Three Parties and user, and to redistribute other products to a third party. Please refer to the GOSAT/GOSAT-2 Data Policy for more details.

https://www.nies.go.jp/soc/en/documents/datapolicy/

10.2 Data Policy by the Project

11. LICENSE

12. DATA SOURCE ACKNOWLEDGEMENT

12.1 Acknowledge the Data Provider

12.2 Acknowledge the Project

13. REFERENCES