

GCOM-C Data Provision Policy

December 11, 2017
Japan Aerospace Exploration Agency

1. Purpose

This document defines the terms and conditions to users related to data obtained by Global Change Observation Mission – Climate (hereinafter referred to as “GCOM-C”), (hereinafter referred to as the “GCOM-C data”).

2. Aim of data utilization

JAXA aims that GCOM-C data is used widely for studies to clarify global climate changes and the carbon circulation change mechanism, as well as for practical uses such as weather forecasts and fishery, so that GCOM-C data will take root in society.

3. Overview of provision policy

(1) For research & development (R&D) and the demonstration of data utilization

(a) Provision for Alliance Organizations

- Target: R&D organizations, organizations demonstrating data utilization, corresponded to 4. (1), whose utilization results are expected to contribute to the purposes of GCOM-C Project.
- Agreement: Depending on the purpose, an agreement or joint research agreement shall be concluded for each applicant.
- Provision data: All the data described in Table 1 (including processed data according to the data utilization form of the receiving party) and its relevant data or information such as information of the satellite system or observation sensors may be provided as needed basis.
- Release of data provision: From the initial calibration and validation period (before one year of launch) as pre-calibration/validation data.
- Method for provision: GCOM-C data shall be provided by the on-line data provision system (G-Portal) in principle. However, GCOM-C data may be provided through a medium or through an exclusive line with the GCOM-C Mission Operation System if needed.
- Expenses for provision: In the case of on-line provision, GCOM-C data shall be provided free of charge. Any extra expenses incurred in using any medium or exclusive line shall be borne by the receiving party.

(b) Provision for unspecified users other than a) above

- Target: Unspecified users who meet the definition in 4. (2).
- Agreement: A user shall make a registration on-line after agreeing with the data utilization regulations (the rights and terms and conditions are described in 9. and 10). Name, affiliation, and purpose of utilization are required for the registration.
- Provision data: Standard Products described in Table 1.

In a case where a user requires a Near-real-time Product from G-Portal for research purpose, the user shall submit Application for “Special User” Registration (Appendix 1). Upon receiving the application, JAXA will evaluate the application and make a decision on whether to authorize the utilization of the Near-real-time Products.

- Release of data provision: After the release of Products carried out subsequent to the initial calibration and validation period.
- Method for provision: GCOM-C data shall be provided by G-Portal.
- Expenses for provision: Free of charge

(2) Commercial purpose

Any user can utilize GCOM-C data for commercial purposes without an agreement of intellectual property utilization authorization with JAXA, and without paying a royalty fee. GCOM-C data is provided by G-Portal in principle. In a case where a user requires Near-real-time Products from G-Portal for commercial purpose, the user shall submit Application for “Special User” Registration (Appendix 1). Upon receiving the application, JAXA will evaluate the application and make a decision on whether to authorize the utilization of the Near-real-time Products.

4. User Categories

(1) Alliance Organization

Alliance Organization means the following organization: Organization which contributes to researches and activities conducted by JAXA, such as calibration and validation for GCOM-C Satellite including its sensor, GCOM-C Data Products and research for climate changes mechanism, Research organization and Researcher adopted in JAXA’s Research Announcements (RA), Organization demonstrating GCOM-C data utilization in the field of climate forecast, providing fishing-condition-information or sea traffic control etc., according to the Agreement.

(2) Unspecified users

Unspecified user means organization or researcher other than (1) above.

5. Provision data

Provision GCOM-C data are listed in Table 1 below.

In a case where an Unspecified user requires a Near-real-time Product from the G-Portal, the user shall submit Application for “Special User” Registration (Appendix 1). Upon receiving the application, JAXA will evaluate the application and make a decision on whether to authorize the utilization of the Near-real-time Product.

Table 1. GCOM-C / SGLI (Second-generation Global Imager) Data

Data name	Standard Product	Details of data
Level 1A Product	○	Observation count value of each wavelength band of SGLI.
Level 1B Product	○	Spectral radiance product of each wavelength band of SGLI with geometric correction.
Near-real-time Level 1B Product		Level 1B Product covering Japan and all around the globe, provided on a near-real-time basis.
Level 2 Product	○	Product generated by inputting Level 1 Product (spectral radiance) to calculate the geophysical parameters. (e.g., land, atmosphere, ocean and cryosphere)
Near-real-time Level 2 Product		Level 2 Product created by processing SGLI observation data, covering Japan and all around the globe, provided on a near-real-time basis.
Level 3 Product	○	Map-Projection Product created by averaging Level 1B and Level 2 products by time and space.

(Note) The Near-real-time Level 2 Product means a product swiftly processed using global forecast values, etc. upon data reception. Level 2 Standard Product means a product processed using global objective analysis values, etc.

6. Release of the data

- (1) The provision of GCOM-C data to all users will start immediately after the completion of the calibration and validation. The target of release timing is December 2018 (After 1 year of launch).
- (2) GCOM-C data may be provided before the completion of the calibration and validation in a case where Alliance Organization needs to process GCOM-C data such as the calibration and validation or contributes to data application researches.

7. Method for provision

GCOM-C data shall be provided by G-Portal in principle. However, GCOM-C data may be provided to the Alliance Organization through a medium or through an exclusive line with the GCOM-C Mission Operation System if needed.

* :Reference:

GCOM-C Mission Operation System and data provision system (G-Portal)

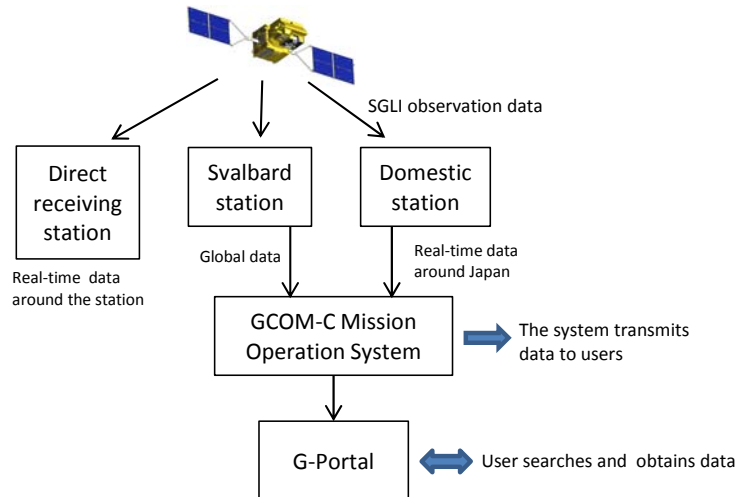


Fig.1 Provision systems for GCOM-C/SGLI data.

[GCOM-C Mission Operation System]

This system provides Standard Products and Near-real-time Products to other systems of JAXA and to users outside of JAXA. Once data provision is ready, the data shall be transmitted to a user. The types of data to be transmitted can be set for each user.

[G-Portal]

This system provides Standard Products and Near-real-time Products to users over the Internet. A user needs to register as a user of the system on-line to obtain Standard Products. Moreover, in a case where the user is authorized “Special User” from JAXA, “Special User” may obtain Near-real-time Products as well. The types of the Near-real-time Products to be provided can be set for each “Special User.” Upon receiving an application (Appendix 1) from a user, JAXA will make a decision on authorization.

8. Expenses for distribution of the data

In the case of on-line provision, GCOM-C data shall be provided free of charge.

Any extra expenses incurred in using any medium or exclusive line shall be borne by the receiving party.

9. Rights associated with the data

JAXA shall own all intellectual property rights, including but not limited to copyrights of all GCOM-C data JAXA provides.

If a user has generated high-level, value-added data products*, the user shall retain the intellectual property rights of such products. JAXA shall not exercise its copyrights (rights as the copyright holder of the original data) and any other intellectual property rights in relation to such high-level, value-added products generated by the user and the user is entitled to use such products.

*High-level, value-added data products are modified products, those that have been modified by applying high-level data processing (data analyses or a combination of satellite data acquired by different missions, image processing based on external information other than the original data, or conversion of physical quantities) for which a user's copyright is acknowledged, and which are irreversible to the original data.

10. Terms and conditions concerning the use of the data

Researchers, research organizations and third parties are required to comply with the terms and conditions of use as follows.

(a) Credit must be indicated when publishing GCOM-C data, modified data and/or products and utilization outcomes

➤ Any publication of outcomes in consequence of the use of GCOM-C data identified in Table 1 shall be accompanied by any one of the following indications;

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➤ If a user has generated high-level, value-added products and provides a third party with such data (including publications), the user shall indicate that the original data are provided by JAXA.

Original Data: Provided by JAXA

(b) Users shall not use GCOM-C data for any purpose in opposition to public order and morals.

(c) JAXA shall not be liable for any missing data, degradation of data quality, delay in data delivery, or any other situation in which the data cannot be provided, as a result of problems that occur in the spacecraft or ground facilities.

(d) Redistribution of the data

➤ "Special User" may redistribute a Near-real-time Product in the scope of the purpose of data utilization. If "Special User" redistributes such products to a third party, the "Special User" shall report the name of person/company who obtained such products, its own purpose of utilization and outcomes about once a year.

➤ Redistribution of any Standard Product to a third party is allowed.

(e) Any user can utilize GCOM-C data for commercial purposes without an agreement of intellectual property utilization authorization with JAXA, and without paying a royalty fee.

11. Policy for Direct Reception of GCOM-C data

Any organization that needs the direct reception of GCOM-C data shall coordinate the matter individually with JAXA.

This Guideline shall be governed and interpreted under the laws of Japan.

Appendix 1: Application for Special User Registration for GCOM-C data providing service

End of Document