



Satellite Observation Center

We are promoting three satellite projects (GOSAT series) in cooperation with the Ministry of the Environment and the Japan Aerospace Exploration Agency to observe major GHGs such as carbon dioxide (CO₂) and methane (CH₄) from space and conduct research to provide the international community with data that is indispensable for achieving the goals of the Paris Agreement.

Global use of GOSAT data

More than 14 years have passed since the first satellite in the GOSAT series started observation of GHGs. To provide users around the world with valuable data that GOSAT and GOSAT-2 have so far accumulated, as well as new observational data by GOSAT-GW, we are constantly flying around the globe (even in cyberspace) every day.



Director
Dr. Tsuneo Matsunaga

Explaining the GOSAT series at an international conference

Satellite Observation Center

Ground-based observation of GHGs and validation of the GOSAT series

We are preparing to obtain and accumulate observational data from the third satellite (GOSAT-GW) which is planned to be launched, and to calculate GHG concentrations at various locations on the Earth. The data will be provided to users all over the world and will be useful for understanding the distribution of emissions and absorption of GHGs.



Senior Researcher
Dr. Hisashi Yashiro

Data processing and operation system for GOSAT

Above-ground observation instrument for sunlight absorbed by GHGs

Head
Dr. Isamu Morino

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Global Carbon Project Tsukuba International Office

Greenhouse Gas Inventory Office of Japan

Collaborative Research Group on GHG-SLCF Emission Inventories

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Climate Modeling and Analysis Section

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