



Greenhouse Gases Observation from the Space: Japan's Contribution to Implementation of Paris Agreement

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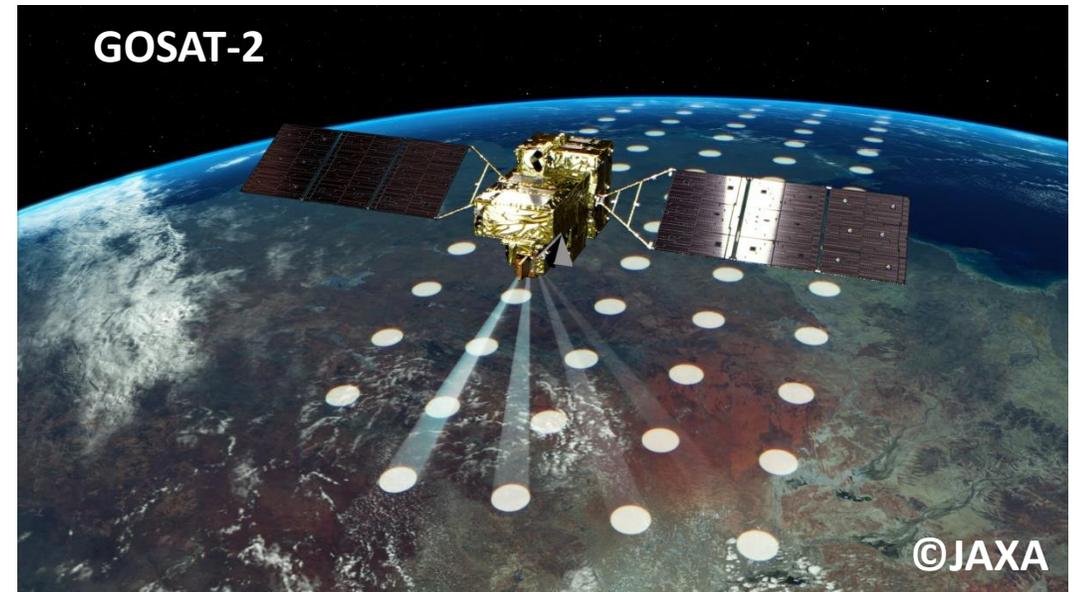
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GOSAT-2 launch at 13:08:00 on October 29, 2018 (JST) from the JAXA Tanegashima Space Center



Specification	GOSAT	GOSAT-2
Launch date	January 23 rd , 2009	October 29 th , 2018
Designed life	5 years (Operating more than 9 years)	5 years
Main observation targets	Carbon dioxide (CO ₂) Methane (CH ₄)	Carbon dioxide (CO ₂) Methane (CH ₄) Carbon monoxide (CO)
Observation accuracy/ density	4 ppm (CO ₂) and 34 ppb (CH ₄) per 3 months at 1,000km mesh over land	0.5 ppm (CO₂) and 5 ppb (CH₄) per 1 months at 500km mesh over land



- GOSAT has monitored global GHG concentration for more than 9 years.
- Newly launched GOSAT-2 takes over this mission, with higher accuracy and density of observation. It also **aims to identify CO₂ emissions**.
- It has a potential to contribute to **implementation of Paris Agreement through enhancing transparency** of mitigation actions.