

5.001 What we have observed with GOSAT and which kind of instruments we will need for future satellite observations.

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Abstract:

GOSAT has measured solar reflected light that passes through troposphere and reaches earth surface with a high resolution spectrometer since 2009. It has provided decade long and global carbon data of dioxide and methane. In order to estimate global flux and local emission from various source sectors more accurately, imaging capability and sampling optimization are needed.