

Japan's submission on the research dialogue

Japan would like to present at the forthcoming research dialogue during SBSTA36 Japanese ongoing activity on greenhouse-gases monitoring from outer space, especially a Greenhouse-gases Observing SATellite – GOSAT, which had a substantial development to be considered for the research dialogue.

Japan launched the satellite, GOSAT, in 2009 and has been carrying out its mission for 3 years as the only operating monitoring satellite exclusively for greenhouse-gases emission in the world.

The results, such as global observation with a uniform quality by only one sensor, with reduced blank area, and reduced estimation error of the CO₂ absorption and emission by subcontinent level, contribute to the future climate change science and global warming countermeasures to a certain extent.

For example, products of CO₂ absorption and emission by subcontinent level are planned to be released this summer. Beforehand, in the SBSTA dialogue, the observation data by GOSAT, and its potential contribution to climate science and the UNFCCC can be presented.

As the satellite observations are also under planning in Europe and America, it may be possible to set up the international cooperation on data calibration and its analysis in the future. In the dialogue, it is, therefore, expected to discuss possible contribution to the UNFCCC through data from outer space which reveals the net emission by countries.