



Status of the GOSAT XCO₂, XCH₄, and other data products

T. Yokota (1), N. Kikuchi (1), Y. Yoshida (1), A. Bril (1), S. Oshchepkov (1), M. Inoue (1), I. Morino (1), O. Uchino (1), D. Belikov (1), T. Saeki (1), H. Takagi (1), S. Maksyutov (1), K. Hiraki (2), Y. Yokota (2), T. Matsunaga (2), A. Yuki (1), K. Hayashi (1), F. Kawazoe (1), and H. Watanabe (1)

(1) Nat'l Inst. for Environ. Studies (NIES), CGER, Tsukuba, Japan (yoko@nies.go.jp), (2) Nat'l Inst. for Environ. Studies (NIES), CEMA, Tsukuba, Japan

Observational data obtained with two sensors onboard GOSAT, the TANSO Fourier Transform Spectrometer (FTS) and the TANSO Cloud and Aerosol Imager (CAI), have been operationally processed into a suite of GOSAT data products for about three years. The processing of the Level 0 data into the FTS Level 1B and CAI Level 1A data is carried out by JAXA, and the higher-level data products are processed at NIES and disseminated online to registered researchers and general users via the GOSAT User Interface Gateway.

The TANSO-FTS short-wavelength infrared (SWIR) Level 2 data product, which stores column abundances of CO₂ and CH₄ retrieved from the SWIR spectral data, will be updated soon. This update is based on a new version of FTS Level 1B data (ver.140140) and an improved Level 2 retrieval algorithm. Also, the TANSO-CAI data products (Level 1B, 1B+, and Level 2 cloud flag data) are renewed at this time. The re-processing of the past observational data will be conducted, and the updated data products will be made available to data users soon.

We herein report the latest update on the GOSAT higher level data products, including FTS TIR Level 2 & 3, FTS SWIR Level 3, CAI Level 3 (NDVI), and Level 4, and explain our plans for the near future.