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AAS22-P02

会場:コンベンションホール

時間:5月21日17:00-18:30

SMILES レベル 2 バージョン 2.1 オゾンとオゾンゾンデの比較結果について Validation of the SMILES Level 2 version 2.1 ozone data by using ozonesonde measurements

今井 弘二 1* , 藤原 正智 2 , 鈴木 睦 3 , 眞子 直弘 3 , 佐野 琢己 3 , 光田 千紘 4 , 内藤 陽子 5 , 塩谷 雅人 6 IMAI, Koji 1* , FUJIWARA, Masatomo 2 , SUZUKI, Makoto 3 , MANAGO, Naohiro 3 , SANO, Takuki 3 , MITSUDA, Chihiro 4 , NAITO, Yoko 5 , SHIOTANI, Masato 6

 1 株式会社とめ研究所, 2 北海道大学 大学院地球環境科学研究院, 3 宇宙航空研究開発機構宇宙科学研究本部, 4 富士通工フ・アイ・ピー株式会社, 5 京都大学大学院理学研究科, 6 京都大学生存圏研究所

¹TOME R&D Inc., ²Faculty of Environmental Earth Science, Hokkaido University, ³Institute for Space and Astronautical Sciences, Japan Aerospace Exploration Agency, ⁴Fujitsu FIP Corporation, ⁵Graduate School of Science, Kyoto University, ⁶Research Institute for Sustainable Humanosphere

Superconducting Submillimeter-Wave Limb-Emission Sounder (SMILES) onboard International Space Station has provided global measurements of ozone (O3) profiles in the middle atmosphere from 12 October 2009 to 21 April 2010. We present validation studies of the SMILES version 2.1 ozone product in the altitude range from 16 km to 30 km using ozonesonde measurements.

A total of 225 ozonesonde profiles from 33 ozonesonde stations worldwide are compared with a total of 471 coincident SMILES ozone profiles. The agreement between the SMILES and the ozonesonde measurements is within 5% and better at higher latitudes in the altitude range from 26 km to 30 km.

キーワード: 国際宇宙ステーション, きぼう, オゾン

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