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Latest Updates of JEM/SMILES L2 Products

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The Superconducting Submillimeter-wave Limb-Emission Sounder (SMILES) on International Space Station (ISS), which was planned by JAXA and NICT, had observed minor species in stratosphere and mesosphere from 2009/10/12 to 2010/04/21. The 4K-cooled Superconductor-Insulator-Superconductor mixers enabled the sensitive observation. Standard L2 Products are O₃, HCl, ClO, HNO₃, CH₃CN, HOCl, HO₂, BrO, and O₃-isotopes. The diurnal variations of ClO, BrO, HO₂ and mesospheric O₃ are observed since the ISS orbit is sun-asynchronous.

SMILES L2 Products operated by ISAS/JAXA have been released every six months. In this presentation, we introduce the latest product v1.3, which is released in this March, and next update plans.