

## An Interactive and Easy-use HDF-EOS 3D Visualization System for Atmospheric Science

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In recent years, visualization techniques are essential in various fields. In particular, 3D visualization makes it possible to observe science simulation results from any angles as well as their presentation purposes.

For the atmospheric scientists without 3D visualization programming knowledge, we develop a 3D visualization system Gateau, which is a quick-look tool that enables them to watch 3D grid data with only a few instructions. The atmospheric scientists mainly use 2D cross sections while they do not usually use 3D visualization. Gateau interactively reproduces the processes where they get a 2D cross section from 3D grid data. Gateau accepts multiple input formats including HDF-EOS, which is expected to be the standard format for earth observation satellite data. Gateau is expected to be used as an HDF-EOS viewer.