

Volume Exploration and Presentation Tool for Data Over Spherical Grids

Prithvi provides direct volume rendering facility for volumetric data defined over spherical grids. The input volume for Prithvi has same format as Renderer i.e. .pvl.nc files. Prithvi supports all the features available in Renderer including simultaneous visualization of multiple volumes.

Number of slices in the data are treated as the depth into the spherical grid and width and height are treated as longitude and latitude respectively.

Use up/down arrows to change the depth exaggeration.

Press spacebar to bring up the command window. Use the following commands in addition to those supported in the Renderer.

latrange to set the latitude range over which the data is present. Default values are -90 and 90.

lonrange to set the longitude range over which the data is present. Default values are 0 and 360.

swizzle [yes|no] to swizzle texture coordinates.

swizzle yes flips texture coordinates : $\text{texture.xyz} = \text{texture.zyx}$

Switch on swizzle when depth is the slowest coordinate.

fliplat [yes|no] to invert the texture coordinates for latitudes.

