S-RAMP(STEP Results, Analysis and Modeling Phase) Database in Japan

Simulation/Modeling (SRAMPDB-J-SM0002)
Version 1.0 November 1998

3-Dimensional MHD Simulation of Solar Wind - Magnetosphere Interaction VRML (Virtual Realty Modeling Language)

1. VRML (Virtual Realty Modeling Language) files

This CD-R contains the VRML (Virtual Realty Modeling Language) files produced from a computer simulation of the interaction between the solar wind and the Earth's magnetosphere, when the interplanetary magnetic field (IMF) changed to the north-south direction. These VRML files can be seen using a VRML viewer such as the Cosmo Player. Several other examples of VRML files and FORTRAN programs which produce VRML files are also included in the CD-R. We can easily create a large number of VRML files using these FORTRAN programs in any UNIX workstation after obtaining the computer simulation data. We appreciate your interest in the VRML files in this CD-R.

Thank you,

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2. Structure of VRML Files:

VRML files

earthb1 solar wind-magnetosphere interaction
small volume for -20Re< x <10Re, 0<, y, z <10Re
egns302.wrl :from north to south, t=302 min
egns304.wrl
earthb2 solar wind-magnetosphere interaction
large volume for -48Re< x <12Re, 0<, y, z <15Re
ehns302.wrl :from north to south, t=302 min
egns310.wrl :from north to south, t=310 min

egns320.wrl
sample example of VRML files
anchor01.wrl :example of VRML files
ball01.wrl
sample2 solar wind-magnetosphere interaction
ebns310.wrl :from north to south, t=310 min
ebns320.wrl
lineb2.f :fortran program
lineb1.wrl :VRML file made by fortran program
sample3 example of fortran program and VRML files
face015.f :fortran program
face015.wrl :VRML file made by fortran program
sample4 example of VRML files
Paperplane.wrl :example of VRML file
box.wrl

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