CISM_DX OpenDX Tutorials with Self-Contained Instructions

STACY IRWIN, SALVADOR HERNANDEZ, JORGE LANDIVAR, RAMON LOPEZ, Florida Institute of Technology, Department of Physics and Space Sciences

— OpenDX is one program in the CISM_DX software package that uses a Visual Program Editor (VPE) to create programs to visualize simulation data as part of the Center for Integrated Space Weather Modelling (CISM). We have developed two tutorials using OpenDX to teach beginning students to create visualizations. These tutorials assume a basic understanding of how to select, place, connect and configure VPE modules as well as basic navigation within OpenDX. Tutorial 1 teaches a user how to create a basic animation without external inputs. Tutorial 2 introduces data importation and visualization on a cut scalar plane. The advantage of these tutorials is the user’s immediate involvement in creating programs without an external instruction manual. Both tutorials are designed specifically to introduce the Florida Tech CISM group’s new members to the basics of OpenDX.