**Simple Earth User’s Manual**

**What is Simple Earth?**

Simple Earth is a multipurpose, three dimensional situational awareness tool. Its capabilities are:

* Display entire globe in 3D
* Easy navigation and controls
* Display thousands of 3D entities while keeping real-time properties (30 frames per second or better)
* Display high resolution satellite imagery
* Measure distances
* Emplace paths and volumes and save/load to/from file
* Enable easy plugin of software modules to augment capabilities (e.g. DIS, KML, ESRI Shapefiles, etc.)

**How to Navigate**

SimpleEarth has two main navigation modes, orbit and perspective. The default navigation is orbit, where the camera is always pointing towards the center of the earth and its up vector points north. In perspective mode, the camera automatically “tilts” while getting close to the ground and keeps its up vector perpendicular to the ground. Under Perspective Mode, the user can tilt and yaw the camera. To enable Perspective Mode, select it from the toolbar options. The controls are as follows:

Navigate Left-Right-Up-Down                                             Arrow Keys, Mouse Drag with Left Mouse Button

Zoom In/Out (Change camera altitude in Perspective Mode)          +/- Keys, Mouse Wheel

Yaw (Only in Perspective Mode)                          Q/E Keys, Mouse Drag with Middle Mouse Button

Tilt (Only in Perspective Mode)                    W/S Keys

**Tools**

Viewer includes the following tools:

* Path Tool – Enables the user to plot paths on terrain and save them to file
* Volume Tool – Enables the user to emplace different types of volumes and save them to file
* Measuring Tool – Enables the user to measure distances on the globe

To enable a tool, you need to select it from the toolbar. All tool functionality is through the use of the right mouse button.

**Menus**

* File Menu – Enables the user to load and save path and volume data
* View Menu – Enables the user to bring up the “Track List” and the “Paths and Volumes” windows
* Help – Provides program information and help documentation

**Windows**

* Track List Window – Displays the list of all tracks on the left side. It displays information about a particular track on the right side. This window is displayed through a menu option or by right clicking on a track.
* Paths and Volumes Window – Enables the user to show/hide current paths or volumes, to change their properties, or remove them from the list