

Appendix I Environmental Visualization Systems (EVS) Simulation

Instructions for downloading, installing, and using the C Tech 4DIM Player software

Be sure to download this software to your computer before using the simulation. Do not use the simulation from the CD.

Downloading and Installing the Software

1. To download from the CD, select the “4DIMPlayerSetup.msi” file and copy this file to your computer.
2. Double click on the file to begin the 4DIM Player Setup Wizard.
3. Follow the instructions on the Setup Wizard to install the player.
4. Download and save the file (or copy the file)
“DEAR EVS Simulation.4d” from the CD onto your computer.

Using the Software

1. On the main screen of your computer, select “Start”→“All programs”→“C Tech”→“C Tech 4DIM Player”. This opens the player. The window that opens will be black, and there will be a taskbar along the bottom of the screen.

Note: The first time you open the software, a “Windows Security Alert” pop-up may appear on your screen with the message that “Windows Firewall has blocked some features of this program”. If this message appears, click “unblock” and proceed with opening the simulation.

2. To open a file using the player, select the File icon (second icon from the left on the left side of the task bar) and locate the file on your computer
“DEAR EVS Simulation.4d”.
3. Double-click the file to it open it in the 4DIM player.

To interact with the simulation, use the following commands:

Rotate the simulation

Move the mouse to a location within the viewer portion of the 4DIM Player's window.

Hold down the left mouse button and move the mouse pointer in various directions. The model rotates.

Note: Where you start with the mouse and where you end (release) determine the angle of and amount of rotation.

Zoom in or out on the simulation

The 4DIM has been programmed to allow zooming in and out of various portions of the Bay. To select an area of focus, begin by clicking the "top view" button, located in the bottom right corner of the program:



Next, select the "4DIM Info" button at the bottom left corner of the software:



By selecting this button, a set of options appear on the left hand side of the screen, which includes a "scripts to play" window. While leaving the "bundled scripts" radio button selected, you can select a geographic area of interest: Arthur Kill, Hackensack River, Kill van Kull, Newark Bay North, Newark Bay Central, Newark Bay South, or the Passaic River. After the geographic area has been selected, click on the "play scripts" button:



The simulation will then shift so it is centered around the geographic area you selected, allowing for easier zooming of the simulation. To change geographic areas, simply select a different area in the script box, and click play. After a geographic area has been selected, you can zoom in or out of the simulation using one of the four options below:

1. Adjust the slide bar of the “Scale Factor”, located along the top of the compass in the “4DIM Info” navigation pane. However, please note this option should not be used if the simulation has been rotated, as it automatically rotates the model to an overhead view of the Bay.
2. On a three-button mouse, use the middle mouse button (i.e., the scroll wheel button) to click and drag to change the zoom level.
3. Use the scroll wheel button to zoom in and out.
4. Hold down “shift” and the left mouse button, then move the mouse up to zoom in and down to zoom out.

Move (translator or pan) the simulation

Hold down the right mouse button and drag the object up, down, and around.

Rotate view without rotating the simulation

Click on the arrow within the compass (located in the 4DIM Info pane) and rotate to desired view.

Move between frames within the simulation

There is a scroll bar along the taskbar at the bottom of the window that shows how many frames (states) are in this file and which frame you are seeing. To move from frame to frame, drag the scroll bar button (moving square) forward or backward. Alternatively, click the arrows on either end of the scroll bar to move between frames.

View the frames in full screen

There is an option along the task bar to view the simulation in full-screen mode. To do this, select the second icon from the right on the right side of the task bar. To undo the full-screen mode, click this icon again.

Exiting the software

Simply click on the red “X” box at the top right of the window to close the file and exit the program.