Instructions for Launching Simulations

I. Launch WES-2 Bridge

1. Method 1: Launch from menu (Figure 1)
   a. Select the "Applications" menu.
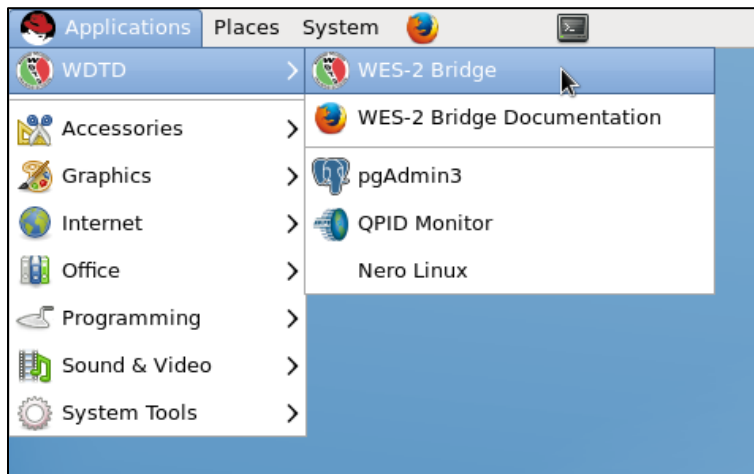   b. Select "WDTD".
   c. Select "WES-2 Bridge".

Figure 1. Launching WES-2 Bridge from the menu

2. Method 2: Launch from terminal window (Figure 2)
   a. Open a terminal window.
   b. Type "***cd /w2b/wes/***"
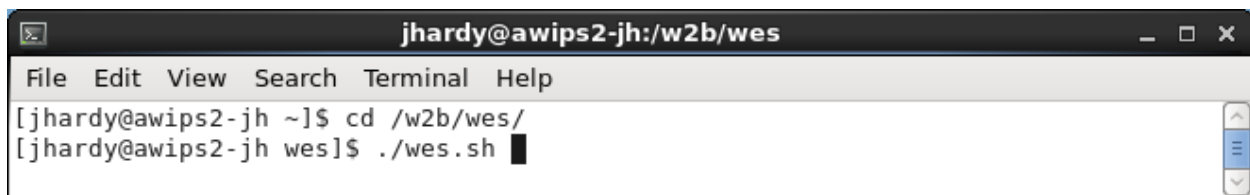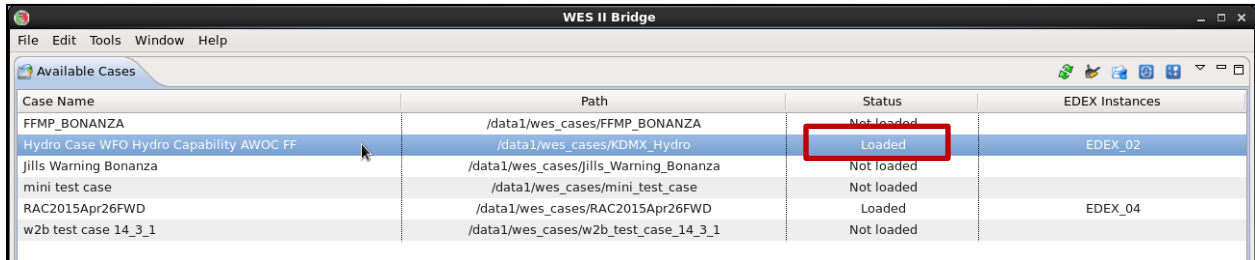   c. Type "***./wes.sh***"

Figure 2. Launching WES-2 Bridge from the terminal

II. Check to see if the case is loaded

1. In the "WES II Bridge" window, find the case in the "Available Cases" tab. (i.e., likely titled "Hydro Case WFO Hydro Capability AWOC FF")
2. Check the case's status (Figure 3)
   - i. If status is "Not loaded", then proceed to Step III.
   - ii. If status is "Loaded", then proceed to Step IV.

Figure 3. Available Cases tab, with case "Loaded" (boxed in red)

III. Load the case

1. In the "Available Cases" tab, right-click the case name and click "Load Case" (Figure 4).
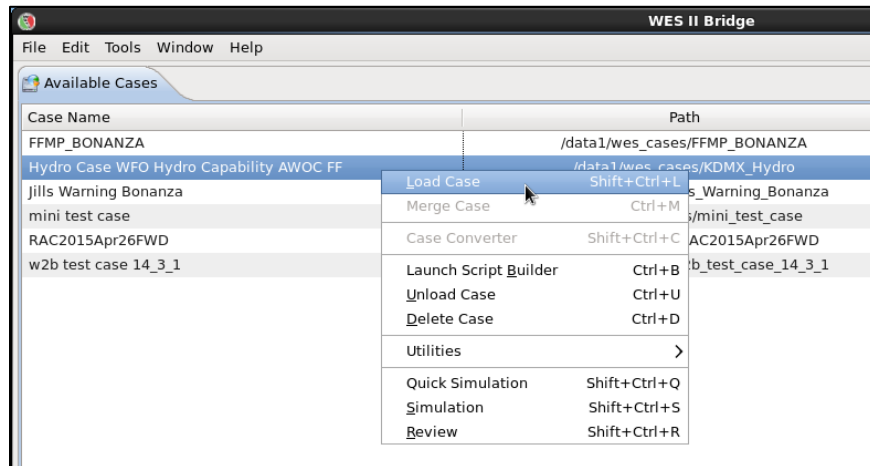

Figure 4. Available Cases tab, with case being loaded

   a. If a window appears saying "All EDEXs are full" (Figure 5), click OK and unload a loaded case from your "Available Cases" list. Once you do this, try again to "Load Case", as described above.
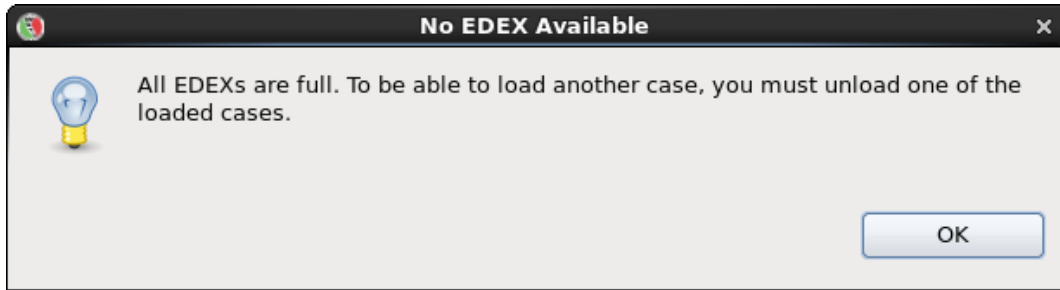
Figure 5. No EDEX Available window

    b. If a window appears saying "Do you want WES to start EDEX?" (Figure 6), click "Yes".
        i. This will start an EDEX, and then open the "Load Case" tab.
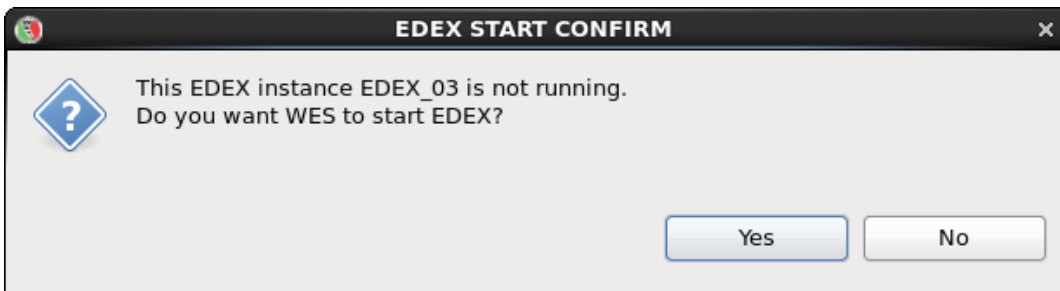

Figure 6. EDEX Start Confirm window

2. Ensure all details are correct in the "Load Case" tab (Figure 7).
    a. <u>Do NOT change the time window for loading the case</u>!
3. Click "Load" (NOTE: it could take up to an hour to load).

IV.   Launch the simulation

1. Once it is done loading, the status will read "Loaded" (Figure 3).
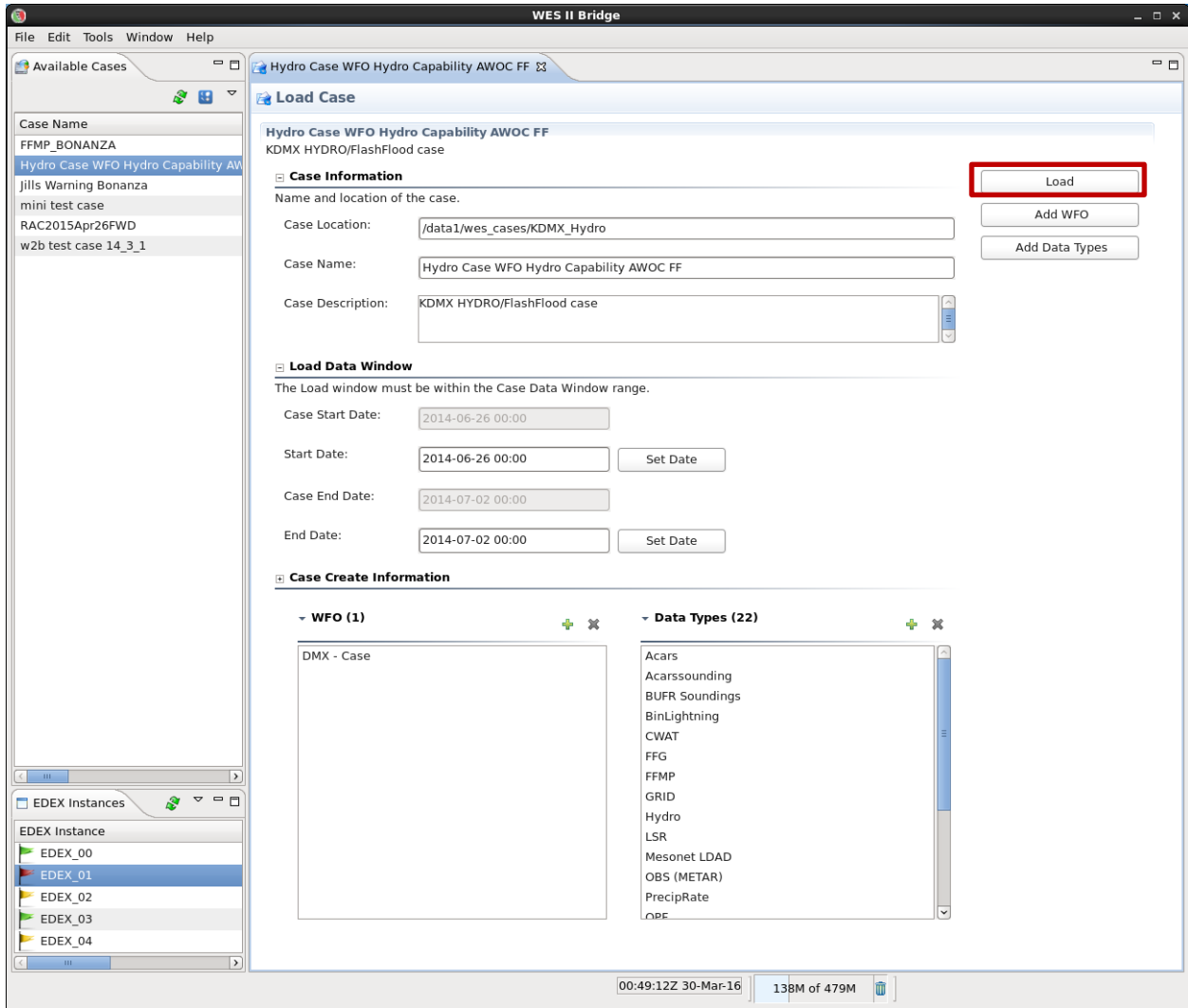2. Right-click the case name again, and click "Simulation" (Figure 8).

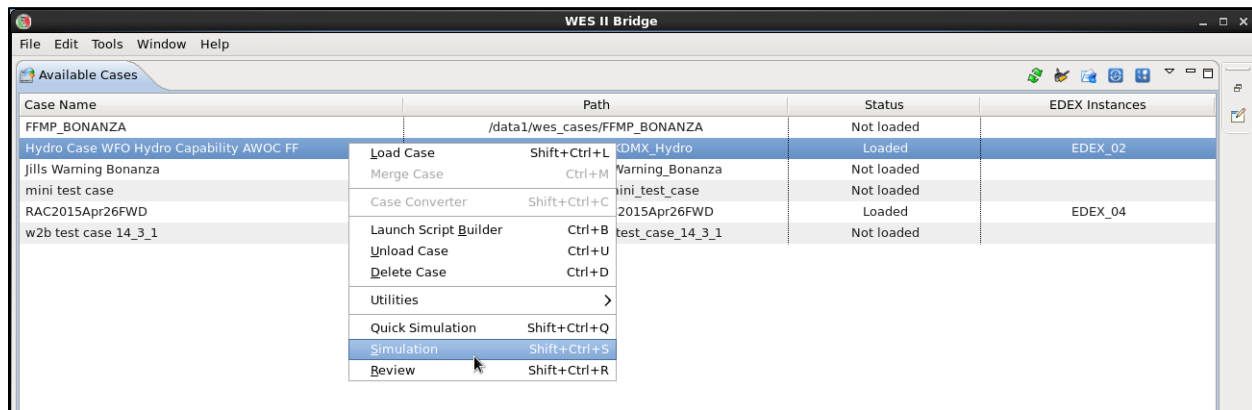**Figure 7.** Load Case window, with "Load" boxed in red

Figure 8. Available Cases tab, with case being run as a "Simulation"

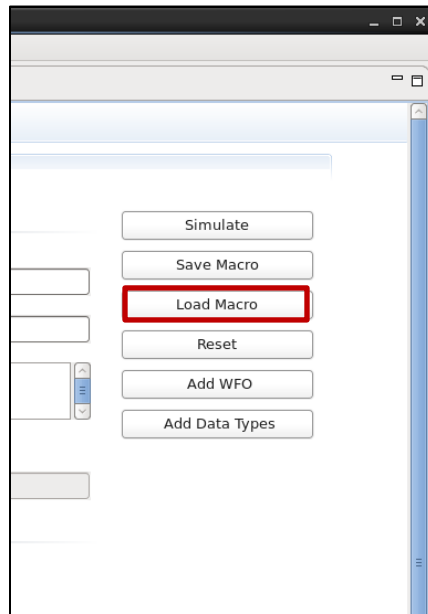3. On the "Simulation" tab, click "Load Macro" (Figure 9).

Figure 9. "Load Macro" on the right side of the Simulation tab

4. In the Macro Selection GUI, choose the macro for the corresponding simulation application, and press OK (Figure 10).
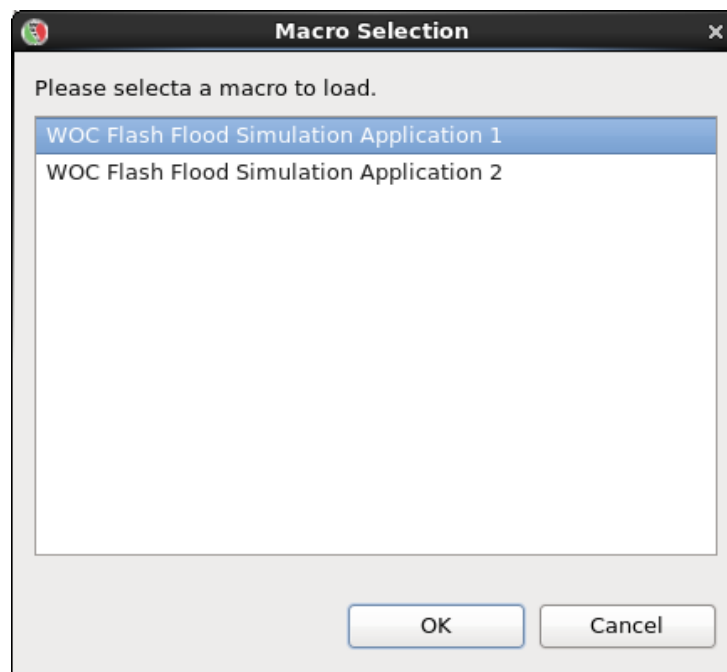

Figure 10. Macro Selection window

5. Using Table 1 and Figure 11, ensure all details are correct in the "Simulation" tab for the given simulation application, particularly:
     i. Simulation Data Time Range – Start Date
     ii. Simulation Data Time Range – End Date
     iii. WESSL Script
6. Click "Simulate" (A pop-up window will appear, and CAVE will open).

Simulation Application #1	
Macro	WOC Flash Flood Simulation Application 1
Simulation Data Time Range Start Date	2014-06-29 14:00
Simulation Data Time Range End Date	2014-06-29 16:00
WESSL Script	WOC_Flash_Flood_Sim_Application_1
Simulation Application #2	
Macro	WOC Flash Flood Simulation Application 2
Simulation Data Time Range Start Date	2014-06-30 18:00
Simulation Data Time Range End Date	2014-06-30 19:30
WESSL Script	WOC_Flash_Flood_Sim_Application_2

Table 1. Simulation launching details for SimApp1 and SimApp2

Figure 11. Simulation details for (a) SimApp1 and (b) SimApp2

V.   Begin the simulation

1. Once CAVE has opened, find the Simulations Control GUI (Figure 12).
   NOTE: While this GUI is often covered by other windows that WES-2 Bridge opens, you can easily find it by clicking on its tab within the bottom panel of your desktop.
2. Click the "Play" button in the Simulation Controls GUI. The WESSL script should run, and a recorded presentation should begin.
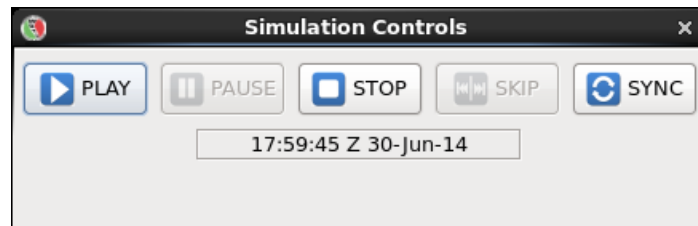

Figure 12. Simulation Control GUI

VI.   [Simulation Application #2] Open a Text Workstation

1. In CAVE, open the "CAVE" menu.
2. Select "New".
3. Then select "Text Workstation" (Figure 13).
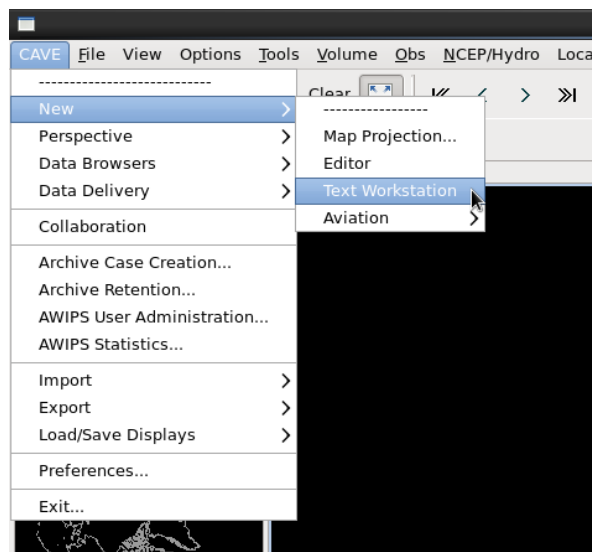   **NOTE: This MUST be opened in order to use WarnGen!**

Figure 13. Opening a new text workstation in CAVE