Read Me:

**Model Name:** DM-10_Low_Chord_Trap_Bridge_Example

Objective: Use EFDC+ Explorer (EE) and EFDC+ to simulate an example of a low chord boundary. The domain uses a trapezoidal channel to demonstrate the tidal influence of a bridge in EFDC+.

Model Grid: 707 horizontal grid cells and 1 vertical layer
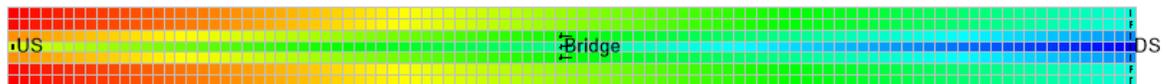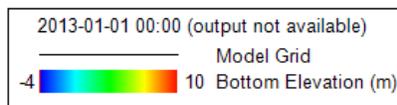
Figure 1 Model Domain of DM-10_Low_Chord_Trap_Bridge.

Folder Structure:

    Model: EFDC model that can be loaded in EE to pre- and post-process.

    Test_record file: This file is just a record file that informs which EFDC+ executable was used to run the model.

Modules Activated: Hydrodynamics, hydraulic structure boundary condition (low chord boundary)

Description: A low chord boundary / bridge is configured at three cells location I = 152, J =5 to I = 152, J =7. The flow with dye from upstream is shown to bank up behind the bridge at high flows, with water levels also influenced by the tidal condition at the downstream.

Disclaimer: The model is provided to our users to demonstrate that EFDC_Explorer and EFDC+ can be used to better understand how to build this kind of model. The model is running as expected; however, shouldn't be considered final as the model can be modified / refined to obtain improved results.

Files in Data Folder:

   No data folder

Model Results:
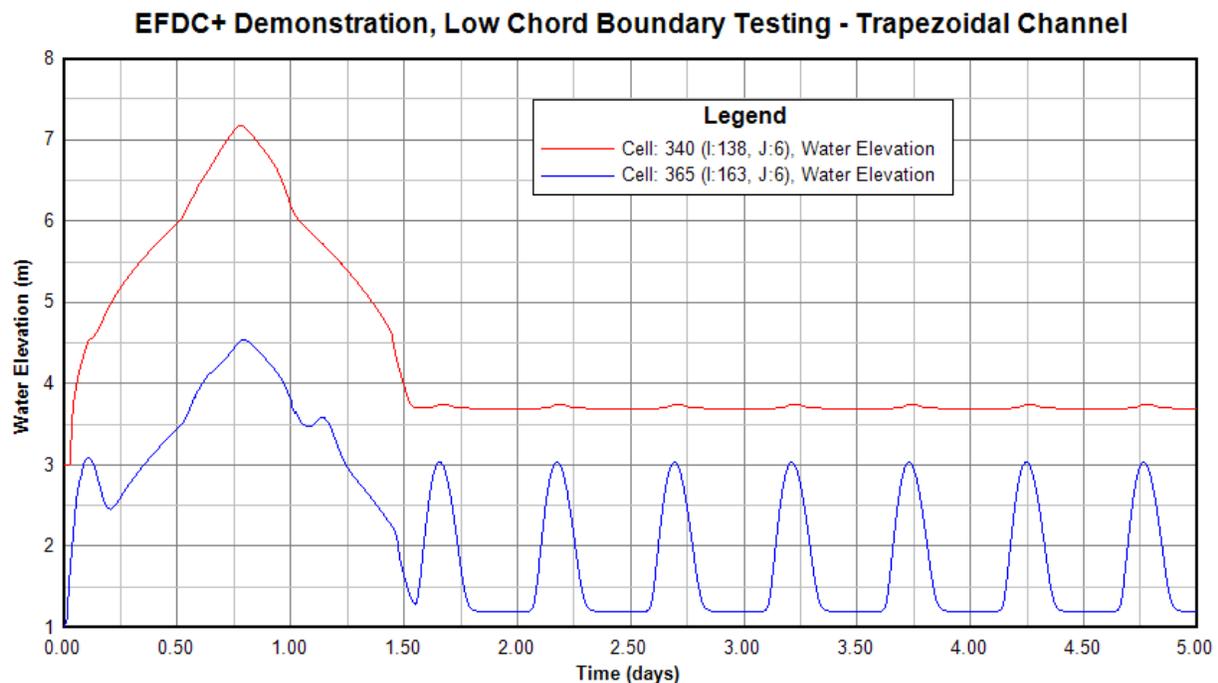
Figure 2 Water elevation from upstream and downstream cells of the low chord from DM-10_Low_Chord_Trap_Bridge .