Read Me:

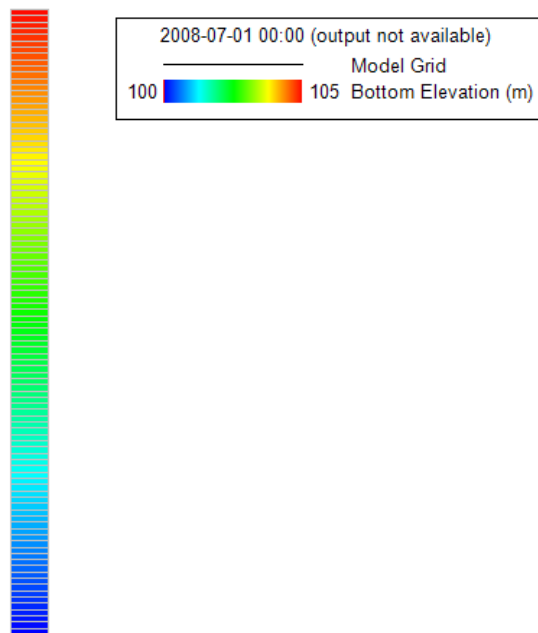**Model Name:** DM-07_1DRiver_WASP_Linkage

Objective: Use EFDC+ Explorer (EE) and EFDC+ to simulate hydrodynamics, and water quality in a one-dimensional river model for comparison with WASP. The WASP model produces results similar to those for the EFDC WQ model, however WASP runs slower than EFDCPlus which uses multi-threading technology.

Model Grid: 100 horizontal grid cells, 1 vertical layer in water column

Figure 1 Model Domain of DM-07_1DRiver_WASP_Linkage.

Folder Structure:

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

      WASP: This folder contains the input files for the WASP model.

Modules Activated: Hydrodynamics, WASP linkage, water quality.

Description: Water quality constituents are configured to upstream and WWTP boundaries at cell location I = 3, J =102 and I = 3, J =98. The model can be used compare output from EFDC+ with WASP.

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:
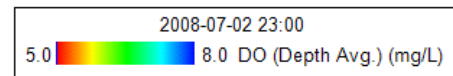
- No data files

Model Result:

Figure 2 2DH view of Dissolved Oxygen from DM-07_1DRiver_WASP_Linkage.