

Read Me:

Model Name: DM-26_Propwash_Canal_Model

Objective: Use EFDC+ Explorer (EE) and EFDC+ to simulate the impact of ship propellers on bed erosion and suspended solids. This is an important element in the development of plans for improvement and optimum utilization of waterways. This model was originally developed by DSI for testing this feature.

Model Grid: 6,000 horizontal grid cells and 10 vertical layers.

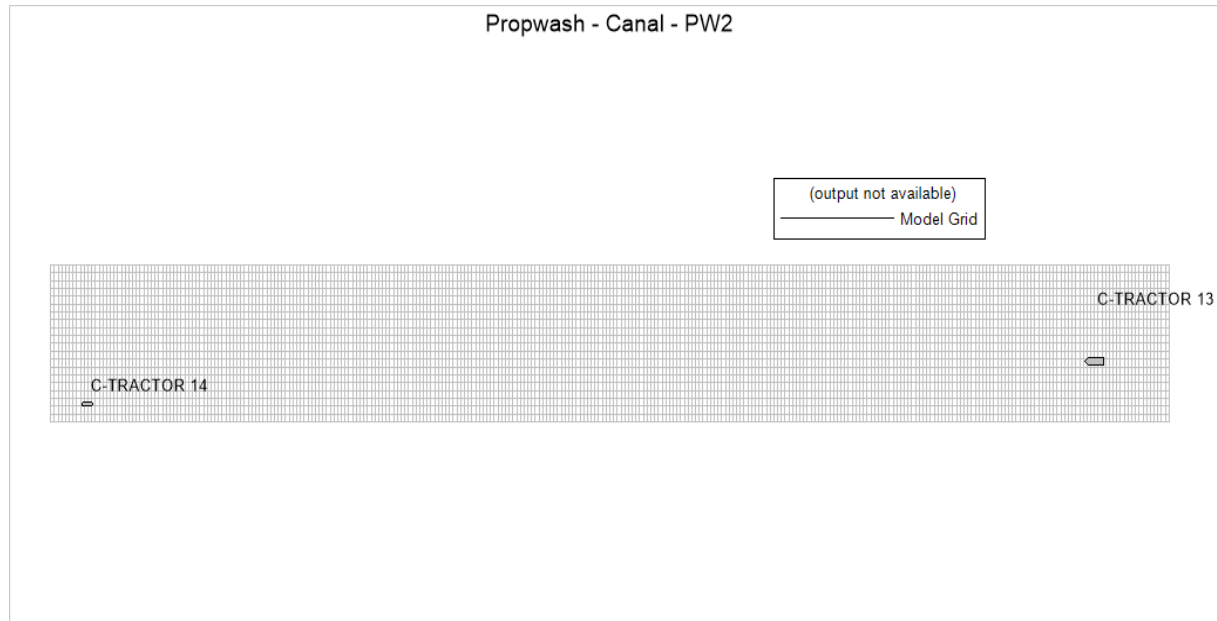


Figure 1. Model Domain of DM-26_Propwash_Canal.

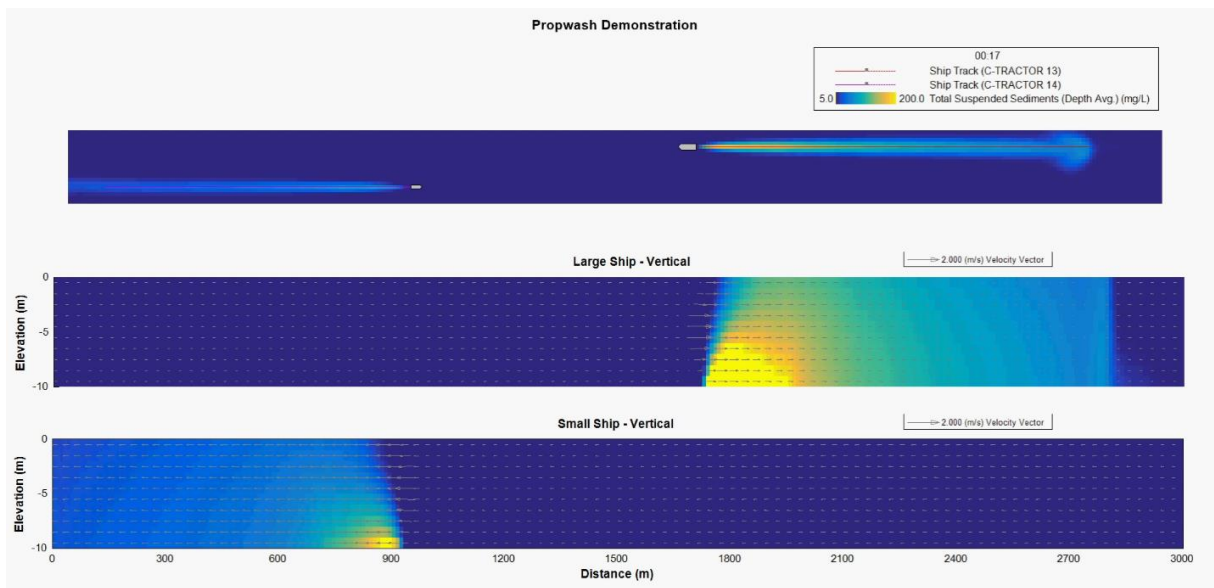


Figure 2. TSS and velocity vector when ships moving.

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 test the model.

Modules Activated: hydrodynamics, sediment, propeller wash.

Disclaimer: The model is provided to our users to demonstrate how EFDC_Explorer and EFDC+ can be used to simulate propeller wash.