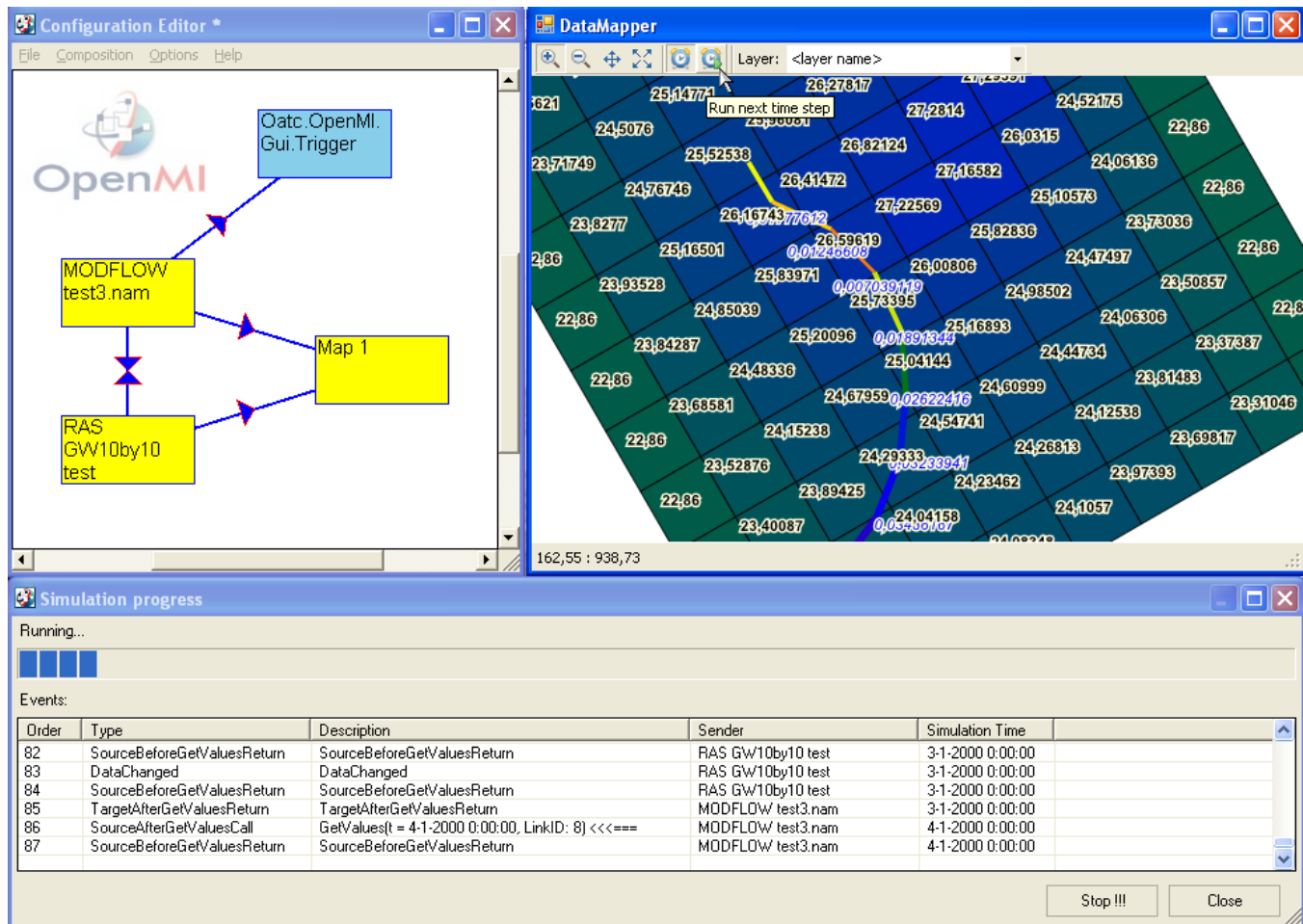


# Workshops on integration of the HEC-RAS and MODFLOW models using OpenMI

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## Screenshot



Notes on some changes during last meeting:

- Upgrade HEC-RAS and MODFLOW to OpenMI 1.4
- Implement linking between MODFLOW and RAS using ElementMapper
  - Groundwater Cell Polygon to River Segment Polyline (weighted sum)
  - River Segment Polyline to Groundwater Cell Polygon (weighted mean)
- Exchange flow into groundwater [cfs] from HEC-RAS --> source flow [cfs] MODFLOW
- Exchange groundwater level [feet] from MODFLOW --> groundwater level [feet] HEC-RAS
- Implement simple component to visualize exchanged values on a map in Tools
- Fixing MEMORY BUG in MODFLOW when solution is not converging (... in progress)
- Implement unit conversion in MODFLOW wrapper
- Prepare more advanced examples with 50x50 MODFLOW grid
- Add XY origin and Rotation for MODFLOW grid as *project.xy* file and implement calculation of cell polygons in the MODFLOW wrapper (maybe should be part of omi)
- Extend GUI to send events in Java / C# way instead of async. queue based
- Remove all river / channel - related knowledge from MODFLOW wrapper - better incapsulation, allow to map river sources on-the-fly using OpenMI instead.
- Add custom blend configuration for a map