# Riverware

Center for Advanced Decision Support for Water and Environmental Systems (CADSWES)

UNIVERSITY OF COLORADO **BOULDER**

# Scripting, Plotting, SCT, and Workspace Enhancements

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# Scripting Enhancements

- Script Manager Loads
- Script Groups and Tabs
- Export/Import Multiple Scripts
- New Action - Execute Script
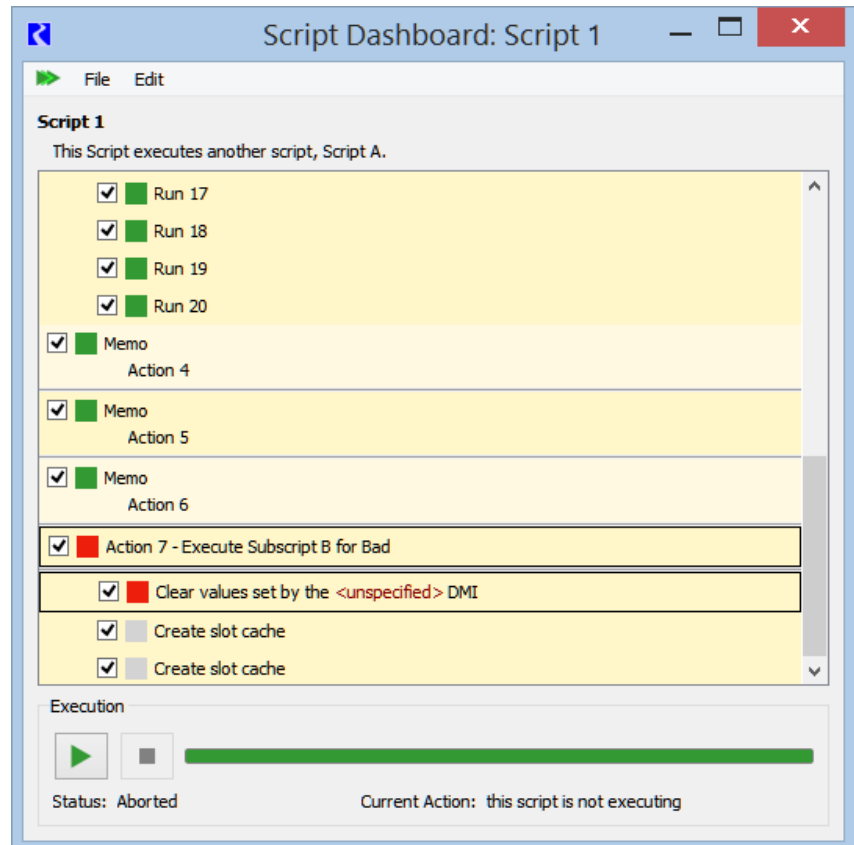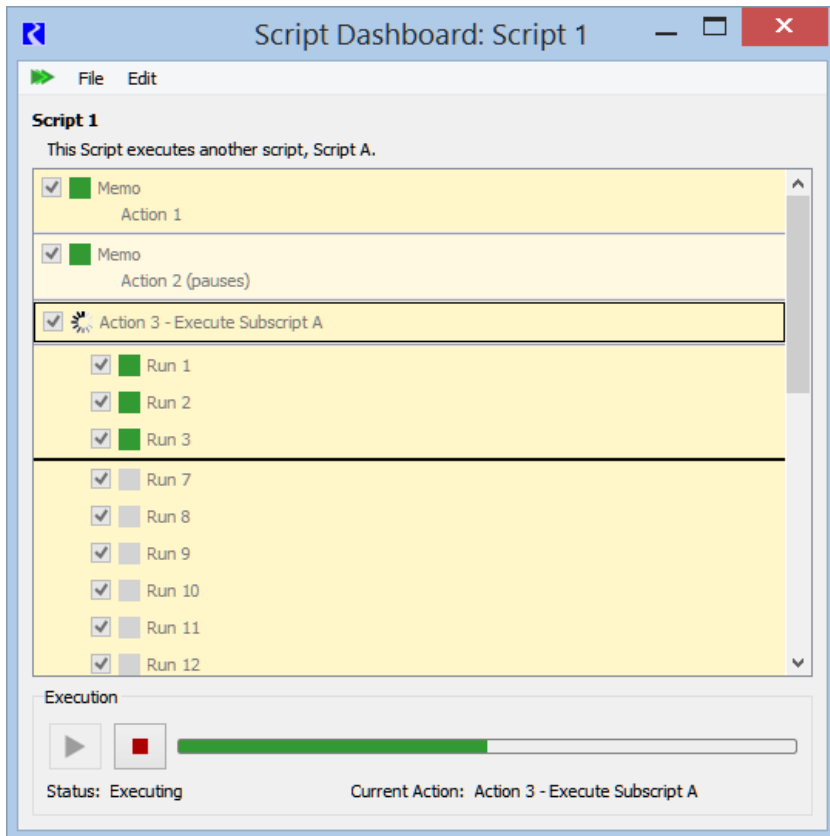- New Action - Set Run Timestep Size

# More Scripting Enhancements

- Script Dashboard Enhancements – 7.2
  - Outline and busy icon indicate in-process
  - Green square indicates success
  - Red square indicates error.
  - Automatic scrolling to the currently executing action.
  - Indicator for hidden tasks.
  - Script Dashboard includes subscript actions
  - Subscript actions can be enabled and disabled.

# DEMO

# Script Dashboard – 7.2

- See progress, subtasks, background work
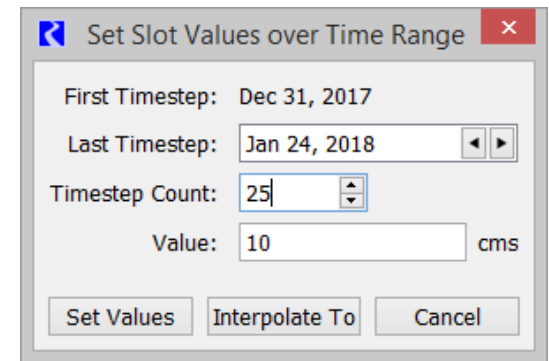
- and errors.

# Plotting – Demo

- Edit/View dialogs

- Configure multiple plots

- Plot scalar slots

- User specified axis units

# Longer Range Plotting Plan

- Improve sizing of plots

- Better legends

- Text annotations

- Better default colors out of the box

- Let us know how it could be improved!

# SCT – Demo

- Undock (copy) sheet
- Better GoTo menu
- Set Slot Labels
- Set Values over Time Range
- Better width when switching sheets
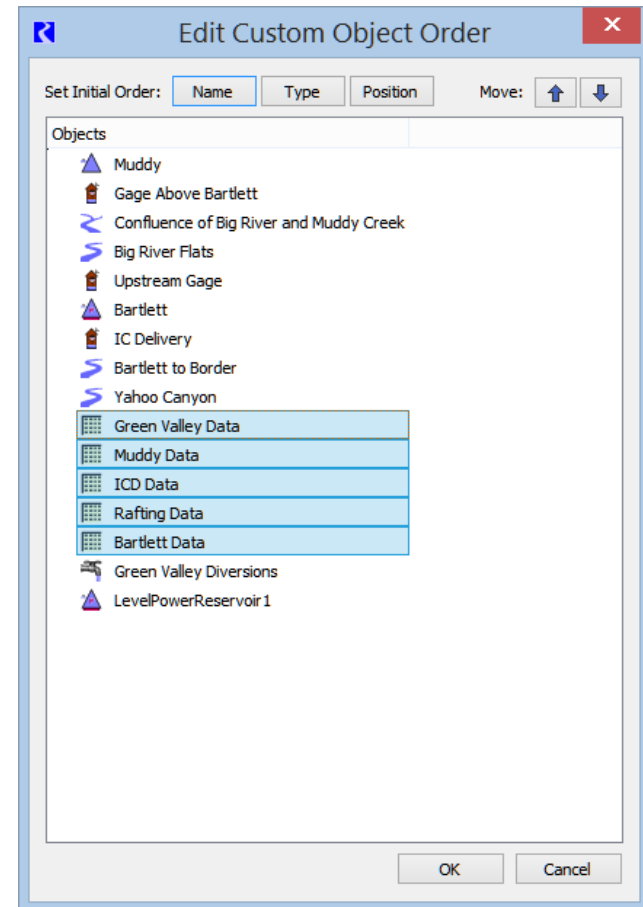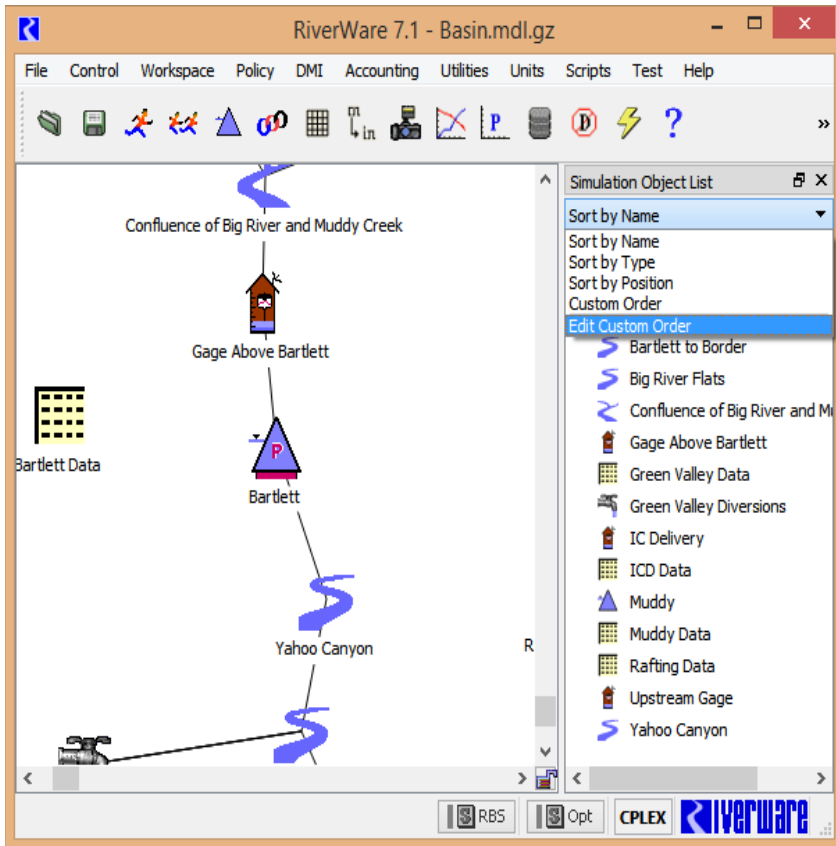- Better navigation
- Improved Font control



Set Slot Values over Time Range

First Timestep: Dec 31, 2017
Last Timestep: Jan 24, 2018
Timestep Count: 25
Value: 10 cms

Set Values  Interpolate To  Cancel

# Workspace Enhancements

- Custom Object Order Dialog - 7.1
- New dialog to edit custom object order
- Supports click and drag
- Saved order available on:
  - Model Run Analysis Dialog
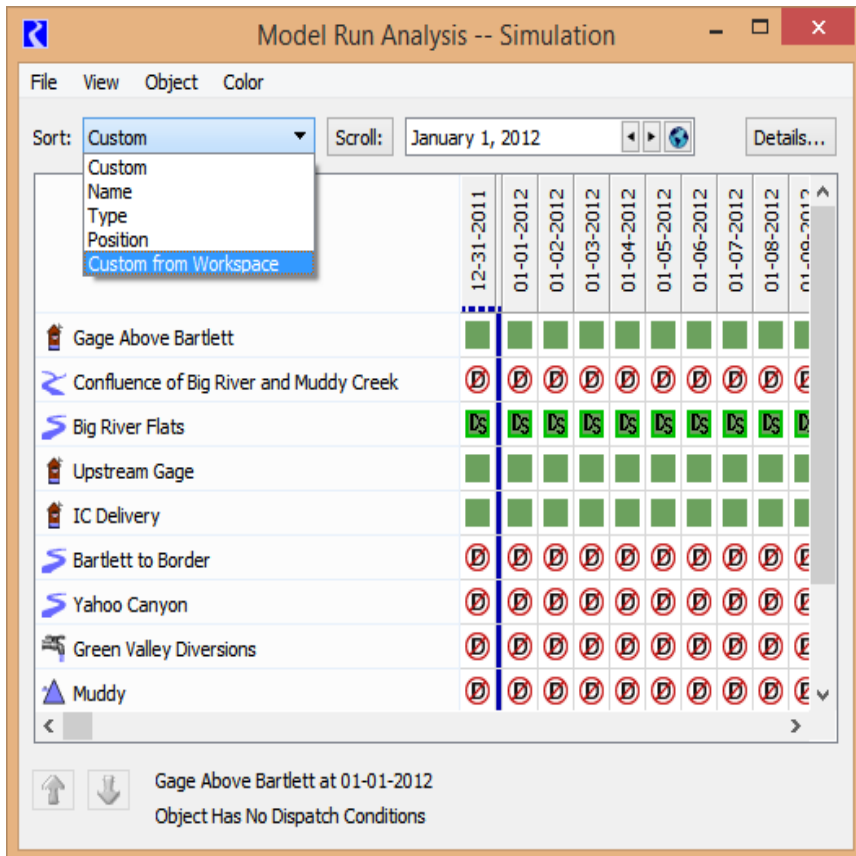  - Object Coordinate Manager

# Custom Object Order Dialog

- Edit Custom Object Order
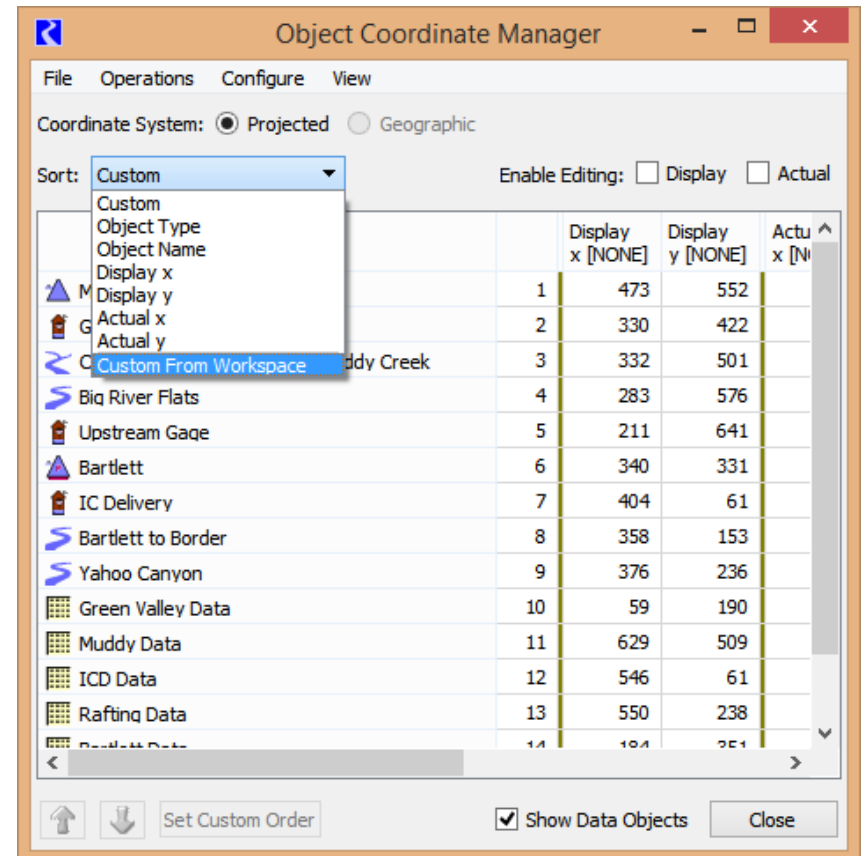
- Highlight, Click, and Drag

# Retrieve Custom Object Order

- Use on Model Run Analysis
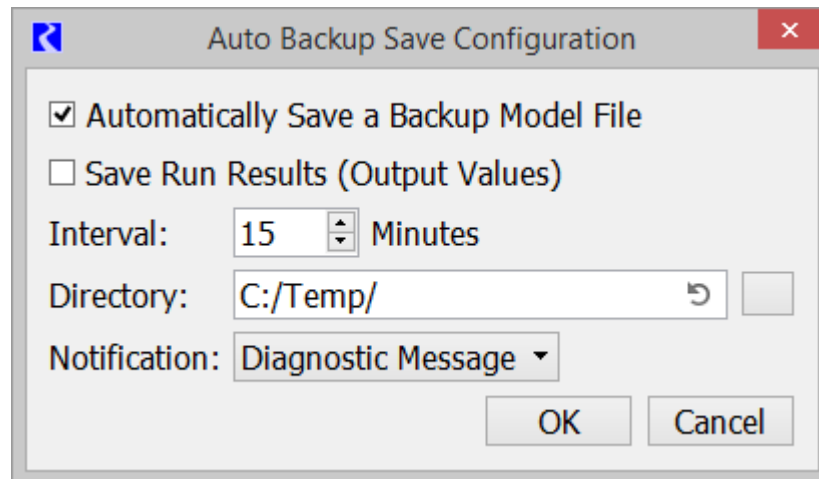
- Object Coordinate Manager

# Other Enhancements

- Auto-save

- Model Metadata
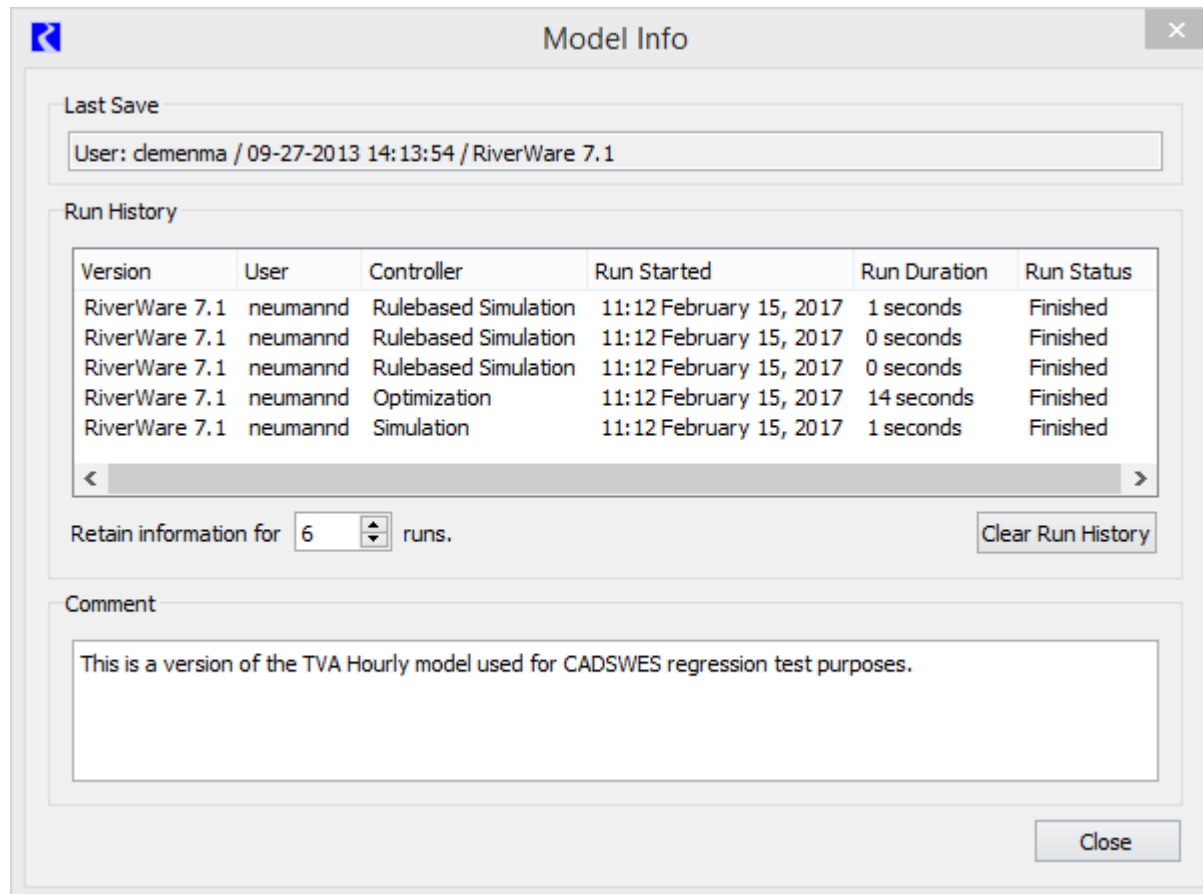
- Initial Workspace view

- Precision

# Auto–Save

- Auto-save model file to a backup file – does not save original model
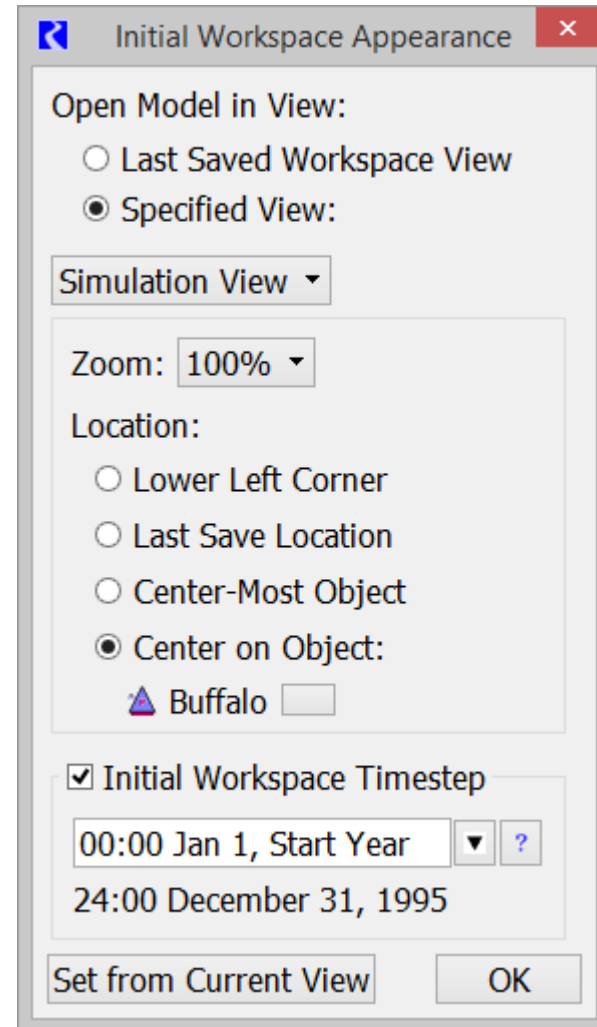- Auto-saves blocked during "significant" operations. Retries when possible.

# Model Metadata

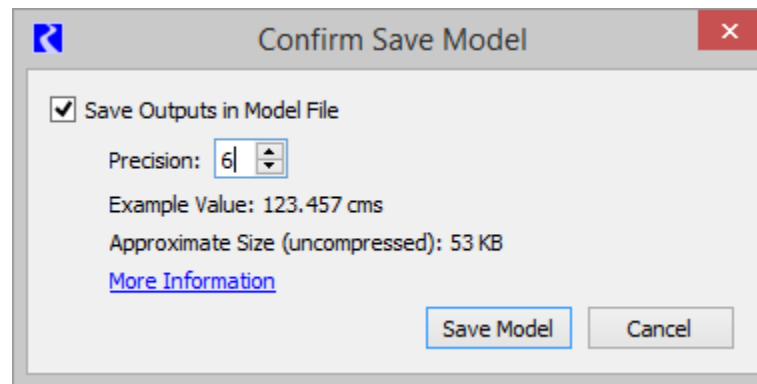- Improved Model Info dialog:

# Initial Workspace View

- What does your workspace look like when it opens?

# Precision of values

- Save Inputs with full Precision (17 digits)
- Optionally save Output values, user specified precision



- Decrease precision to decrease model size