Phil Weinstein / Accomplishments -- June 2014 -- Edit 7-02-2014

Notes:

* David's report covers my contribution to Object Attribute design work.
* Tim's report covers my contribution to these two tasks:
  + TVA RW-FEWS integration SOW / Analysis of SCT requirements and tasks
  + SCT Expression Slot Update Trigger, analysis.

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| **General Development Accomplishments** |

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[I.B] New/Enhanced Software / Unfunded Development  
   Improved Periodic Slot Plotting  
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Periodic slot curves in time plots now always cover the full visible time range. This provision allowed us to simplify the configuration of periodic slot curves -- the "Time Range" settings for periodic slot curves have been removed. The auto-scale time range for plots containing only periodic slots is the model's run time range.

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[I.B] New/Enhanced Software / Unfunded Development  
   Diagnostic Output Window Enhancements  
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The Diagnostics Output Window message list now supports these three new context- (right click-) menu operations based on the "Context" portion of the message's content:

1. "Open Context Object" opens the dialog for the Simulation Object, Account, Slot, Rule, or Goal.
2. "Copy Context Timestep" copies the context date/time to the system clipboard
3. "Global Scroll to Context Timestep" performs a global time scroll with the context date/time.

The similar feature within the Diagnostic Output Window's Message Popup Dialog ("Open Selected Named Item...") was enhanced to also support RPL objects. RPL object lookup involves these three RPL Sets:

1. The Loaded Rule Set
2. The Loaded Optimization Set
3. The Initialization Rule Set

A "Show Filter Statistics" option was added to the Settings menu. When enabled, a single-line filter statistics panel appears below the message list. This indicates the total number of diagnostics messages, and how many are shown and hidden due to message filtering.

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| **Maintenance Accomplishments / June 2014** |

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[II] RiverWare Software Maintenance / Software Updates / Bug Fixes  
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The following bugs were analyzed and closed without changes:

* Bug 3718: Crash Changing the timestep in Run control
* Bug 4252: Purify errors, memory leaks.
* Bug 5284: Workspace File->Reopen menu selection ignored
* Bug 5497: When moving the first rule in a group, if the move is cancelled, the rule goes to the bottom. (Same as 5490).

The following bugs were fixed:

* Bug 4178: Model corruption issues related to SubBasins
* Bug 5487: Plot Dialog: Assertion failure adding slot after having tried plotting a single-column table slot.
* Bug 5495: Periodic slots are not repeated in graphs\*.
* Bug 5500: Switching to a parametric plot in Plot Dialog ignores bottom axis' configured precision. [6.4.10]
* Bug 5502: RPL: FilterByObjType: (1) only first type used (2) 'DataObj' problem
* Bug 5503: RPL: core dump when writing to agg series slot.
* Bug 5505: Diag window closes when invalid RPL set is loaded (sometimes)
* Bug 5506: Redundant DMI execution (GUI only)
* Bug 5507: Creating a Subbasin from AggObjs selected on the workspace no longer includes Element Objects.

\*enhancements described elsewhere in this report were made in the course of addressing this bug.

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