HEC-RAS Known Issues
Version 6.0 Beta (Update 1)

Released: 21 December 2020

Summary of Issues Repaired for HEC-RAS 6.0 Beta 2 (released 3 February 2020)

Issue	Description
Reach Length Updating	Reach lengths not updating when deleting the immediately downstream cross section.
Projection Issue with Gridded Precipitation in HEC-DSS	The reading of gridded data from HEC-DSS was not getting the horizontal coordinate system information correct all the time. In some cases, an older Albers Equal Area projected coordinate system was assumed in order to proceed. This may have caused your precipitation to be shifted away from its true location.
Precipitation and Wind Force with 1D Modeling	Using spatial precipitation and wind forces at the same time with 1D river reach modeling. This was fixed for the 1D Finite Difference method, but is still an issue for the 1D Finite Volume solution methodology.
Mapping Storage Areas - Steady Flow	Storage Areas are not mapped for steady-flow simulations (water surface elevations are not written to the output HDF).
Reference Points Not Plotting in Hydrograph Plotter	Reference points are not plotting.
1D Sediment Plotter Improvements	We made the following updates to the 1D sediment plotter: • Separate "Total" variable for variables with grain class results

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	• Plot profiles by downstream distance instead of station (and plot multiple rivers/reaches together starting at 0 ft)
	• Add a grain class color ramp
	• Add monochromatic color ramps to show temporal progression when multiple profiles are selected or show relative location (DS to US) for multiple time series
	• Remove unhelpful default colors and select default colors more applicable to sediment variables
	• Order the grain classes in both the selection tool and the legend
	• Order the results in the legend by time or location (it was in order of user selection)
	Plot similar results on the same axis (e.g. WSE and invert, or d90 and d50)
1D sediment plotter crashes with some unsteady files	The cross section sediment plot crashed with some unsteady data sets in the new sediment plotter.
Quasi-Unsteady DSS Selection	The initial 6.0 release cannot open a new DSS file or run with a DSS7 file in the quasi-unsteady flow editor.
Terrain Modifications - Simple Shapes	Extraction of elevation data for Terrain Modifications using simple shapes (circles, rectangles) was not extracting the elevations for the entire shape (levee and channel modifications are working).
3D Viewer - Controller Not Working	Game controller not working in the 3D Viewer.
Spatial Precipitation on Storage areas with no 1D Reaches, not functioning.	If a user has storage areas and/or 2D Flow Areas, but no 1D River Reach, the spatial precipitation model run will get an "Access" error right at the

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	beginning of the Unsteady flow analysis. This has been fixed already and will be in the next Beta release.
Modified Puls Routing in conjunction with 1D Finite Volume solver.	It was never intended to have the Modified Puls routing option work with the new 1D Finite Volume solver. The modified Puls routing option was added to HEC-RAS due to issues/problems using the current 1D Finite Difference solver in very steep terrain and for very low flows. We will add a data check to the interface to tell users that they cannot use Modified Puls routing option with the 1D Finite volume option. Given that the 1D Finite volume solver can handle dry channels, very low flows, and very steep terrain, users should not need Modified Puls routing when using the 1D Finite Volume solver.
2D Bridge Modeling with Pier Debris Option turned on.	The option to use Debris on bridge piers currently does not function within the 2D Bridge modeling approach. We will be making this functional for a future Beta release.
Raster Calculator Variable Names	The interface allowed for numeric values for the first character in the Raster Calculator variable names. This caused the script compiler to fail. The interface should not allow input of improper names.
2D Bridge Modeling in Metric Units	For 2D bridge data sets in metric units, there is a bug in double converting the bridge curves from English to Metric units. The first time you run it the minimum elevation for the curves is wrong. This is due to the fact that the bridge cross sections are not being converted to English units properly. The second issue is if you rerun the data set with no changes, the entire curves get converted again. So every time you rerun the curves they get lowered by a factor of 3.28.
Map Generation - Multiple Maps	A dialog pops up providing a completion message when a map is completed. With multiple maps being generated this stops the creation of consecutive result maps.

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RAS Mapper - Map Generation	Generation of the **Energy (Elevation), Energy (Depth), Froude** Map Types results in a map creation failure for the Maximum profile. "Error Generating stored map: all cells were NoData" message is displayed.
3D Viewer - Splash Screen Stuck on "Initializing Input"	Sometimes the 3D Viewer splash screen will be stuck on "Initializing Input". To make this not happen, make sure the splash screen has focus from Windows before it reaches "Initializing Input". You can give the window focus by clicking on it.
3D Viewer - Z Scaling Missing or Invalid	If the user ever tried setting the Z Scaling to a decimal number in the 3D Viewer Options, they may not be able to start the 3D Viewer from HEC-RAS. To reset the Z Scaling back to an integer, open Ras3DViewer.exe in the installation directory and change the Z Scaling value there. (Z Scaling was intended to work with decimal numbers.)