

ISIS Version 3.5.1 Release Notes
(07 October 2011)

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1 Introduction

Halcrow are pleased to announce the v3.5.1 interim release of ISIS. This is an upgrade to ISIS v3.5, containing a number of improvements and new features including the following:

- ISIS-TUFLOW-PIPE link enabled
- 64-bit ISIS-TUFLOW linking enabled
- ISIS FAST – limited-size free “taster” version
- Damage Calculator tool
- Revitalised Help

A full list of enhancements and fixes are provided in Section 2.

For full information and installation instructions, please refer to the [ISIS v3.5 release notes](#) and the ISIS Help files.

2 Changes since ISIS Version v3.5

2.1 ISIS Flow Engine (isisf32.exe, build 6.5.1.75)

- Link with 1D component of TUFLOW (ISIS-TUFLOW-PIPE [ESTRY] link) available. NB This requires TUFLOW 2011-09-AA or later to be installed.
- 64-bit version now links with 64-bit TUFLOW
- Minor Bug fix: Muskingum units – Qrating unit was being solved explicitly leading to potential instabilities. Now made implicit.
- Minor Bug fix: ReFH unit – corrects division by zero error (and timestep synchronisation error) in loss model - "transition" phase was being applied one timestep too late

2.2 ISIS 1D interface (isis3.exe, build 3.5.1.146)

- Global Edit of Modular Limit for spills
- Added density field to River Section, to allow spatially varying density to have an effect on momentum.
- Fixed USBPR global roughness edit bug
- Fixed plotting bugs due to plot settings
- Fixed comment form bug whereby ‘OK’ button sometimes did not show

2.3 ISIS Mapper (ISISMapper.exe, build 3.5.1.422)

- Multi-animation of 2D results now available
- Web-mapping service layer available
- Link to new Damage Calculator tool

2.4 ISIS FAST (Fast.exe, build 3.5.1.186)

- Free ‘taster’ version available, restricted to DEM grid size of 2500 cells.
- 8-directional search in preprocessing phase – enables cells to spill to corner neighbours, as well as side-neighbours

2.5 ISIS 2D interface (ISIS2Dinterface.exe, build 3.5.1.68)

- Bug fix – output of ‘fixedvalue’ boundary type no longer causes ISIS FAST to fail
- Inconsistencies in setting Start / End times fixed
- Default save interval set to 300s
- Now checks for existence of computational engines before running

2.6 ISIS Adapter (EAFFSISIS.exe, build 8.35.1)

- Bug fix – output of diagnostics of null values no longer crashes if the node list is too long.

2.7 ISIS Damage calculator (ISIS_DC.exe, build 3.5.1.16)

- New product – calculates economic damages and risk to life from 2D model results based on depth-damage curves.

2.8 ISIS Help (ISIS.chm)

- Restructuring in more logical format
- Updated fully with all new features documented
- Link to Water Quality manual

3 Contact details

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