

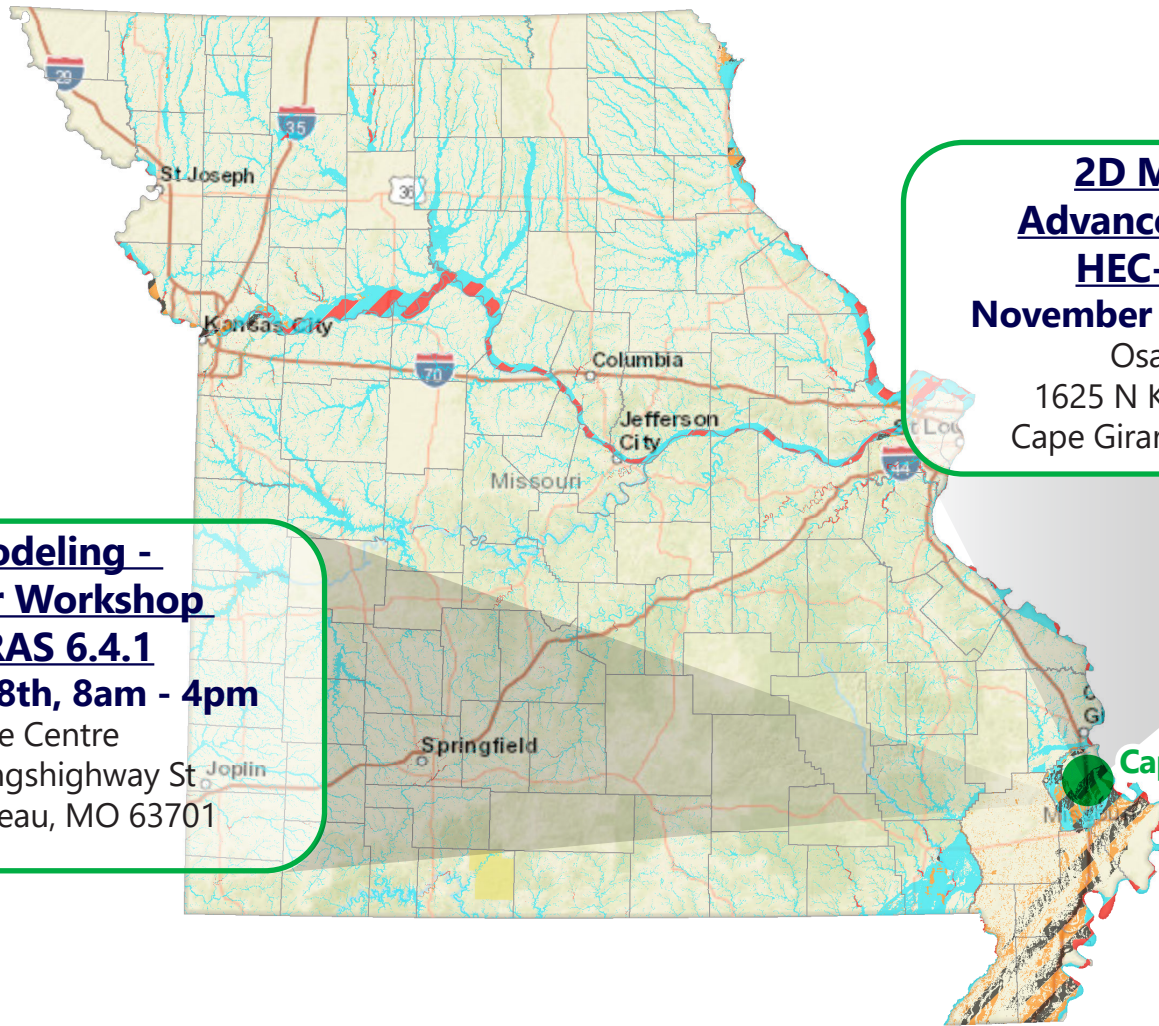


2023 WORKSHOPS

The goal of the 2D workshops is to develop and provide technical training to state agencies, local officials and local technical community to assist in the transition from 1D to 2D Flood Risk Identification and NFIP Floodplain Management.

Eight CEC's are provided for the HEC-RAS 2D and PC-SWMM workshop. Nine CEC's are provided for the Risk MAP workshop.

<http://bit.ly/MOSEMAOutreach>



**2D Modeling -
Beginner Workshop**
HEC-RAS 6.4.1
November 28th, 8am - 4pm
Osage Centre
1625 N Kingshighway St
Cape Girardeau, MO 63701

**2D Modeling -
Advanced Workshop**
HEC-RAS 6.4.1
November 29th, 8am - 4pm
Osage Centre
1625 N Kingshighway St
Cape Girardeau, MO 63701

**Course Dates
Coming
Soon!**

The PC SWMM 2D models cover areas of large closed system conveyances coupled with 2D analysis surface storage areas and conveyance paths.

The accuracy of risk identification is greatly enhanced with 2-D modeling but needs to be integrated locally to maximize its potential for effective floodplain management. During this workshop you can expect:

- Broadened knowledge of Flood Risk 2-D modeling
- Hands on experience pulling information from new 2-D models
- Continuity of synergy from Risk MAP deliverables
- Understanding of the NFIP floodplain versus the results of the 2-D hydraulic models
- Continued building of partnerships through education and utilizing comments to assist policy changes

Training will include:

- Description and explanation of model development hydrology and hydraulics
- User Guide for basic needs of the floodplain managers and engineers to determine floodplain management answers from existing models
- Process to modify models for 3 typical floodplain management scenarios
- Lead the development of LOMR for modifications
- Facilitate a discussion of issues and concerns for follow up post training.

The HEC RAS 6- 2D models cover areas of predominate riverine conveyances and surface storage areas.

The accuracy of risk identification is greatly enhanced with 2-D modeling but needs to be integrated locally to maximize its potential for effective floodplain management. During this workshop you can expect:

- Broadened knowledge of Flood Risk 2-D modeling
- Hands on experience pulling information from new 2-D models
- Continuity of synergy from Risk MAP deliverables
- Understanding of the NFIP floodplain versus the results of the rain on grid 2-D hydraulic models
- Continued building of partnerships through education and utilizing comments to assist policy changes

Training will include:

- Description and explanation of model development hydrology and hydraulics
- User Guide for basic needs of the floodplain managers and engineers to determine floodplain management answers from existing models
- Process to modify models for 3 typical floodplain management scenarios
- Lead the development of LOMR for modifications
- Facilitate a discussion of issues and concerns for follow up post training.

**Course Dates
Coming
Soon!**

DFIRM Data and Risk MAP Products to manage floodplains Workshop

These are ten-hour training workshops (Afternoon of day 1 and Morning of Day 2) for communities and/or individual groups wanting to learn how to utilize DFIRM data and Risk MAP Products to manage floodplains, identify mitigation actions and advance mitigation projects for their community.

These workshops will be hands-on computer classes showcasing DFIRM and Risk MAP Products with participants performing coordinated analysis on their communities' datasets resulting in specific actionable results for their community. These workshops will also include experience utilizing the Hazard Mitigation Profile Tool. Continuing Education Credits will be obtained for the workshop attendees through ASFPM.

To Register Contact:

**Sydney Roberts
SEMA**

573-526-9383

Sydney.roberts@semp.dps.mo.gov





2023 WORKSHOPS

Twelve laptops will be provided at each workshop. Attendees may also bring their own laptop. The workshop materials, software and licenses will be on a flash drive and attendees can keep the thumb drives. If attendees bring their own laptop, the requirements are below:

Equipment materials:

This is an interactive workshop in which participants should bring a laptop if possible. Details below:

A computer with the following specifications:

- **HEC-RAS 6.4.1**

You must download, install, and activate the software prior to the workshop. We will have a copy also available but to install you will need to have administrative rights.

- **Software Location – HEC-RAS Version 6.4.1**
- <https://www.hec.usace.army.mil/software/hec-ras/download.aspx>

The screenshot shows the HEC-RAS download page. The left sidebar contains a menu with items: HEC-RAS, HEC-RAS, Features, Downloads (highlighted with a green arrow), Documentation, Training, Known Issues, Bug Report, Suggestions, Collaborators, and Support Policy. The main content area includes a header for HEC-RAS 6.4.1 Windows, a primary download site link for HEC-RAS 6.4.1 Setup Package (205 MB), an alternate download site link for HEC-RAS 6.4.1 Setup Package (205 MB), supported operating systems (Windows 10, 8, 7, Vista, XP), and a download link for HEC-RAS 5.0.7 Setup Package and Documentation (385 MB). Below this is a section for HEC-RAS 6.4 Example Projects with a download link for HEC-RAS 6.4 Example Projects (421 MB).

Hands-on exercises and potentially other software will be installed during the workshops on your laptop. Please ensure you have such rights or know the administrator's log-in procedures.

- **Microsoft Windows 10, 8, 7, Vista, or XP (SP2) operating system (Must be a 64-bit Operating System)**
- **Microsoft .NET 4.5 framework**
- **Minimum physical memory: 4 GB**
- **Minimum free disk space: 16 GB**
- **Minimum screen resolution: 1600 x 900 pixels**

We strongly recommend a 15" or larger screen, with a resolution between 1600x900 pixels and 1920x1200 pixels and text size set to 100%. This will enable the exercise instructions and the software to be displayed on the screen side-by-side.

- **Microsoft Excel (usually part of Microsoft Office)**
- **Earbuds/headphones and audio jack (for additional help videos)**
- **A 2-button mouse with wheel (strongly recommended)**

