MODFLOW-OWHM Version 2.2 and the USGS Source Code Website code.usgs.gov

California Water and Environmental Modeling Forum

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U.S. Geological Survey

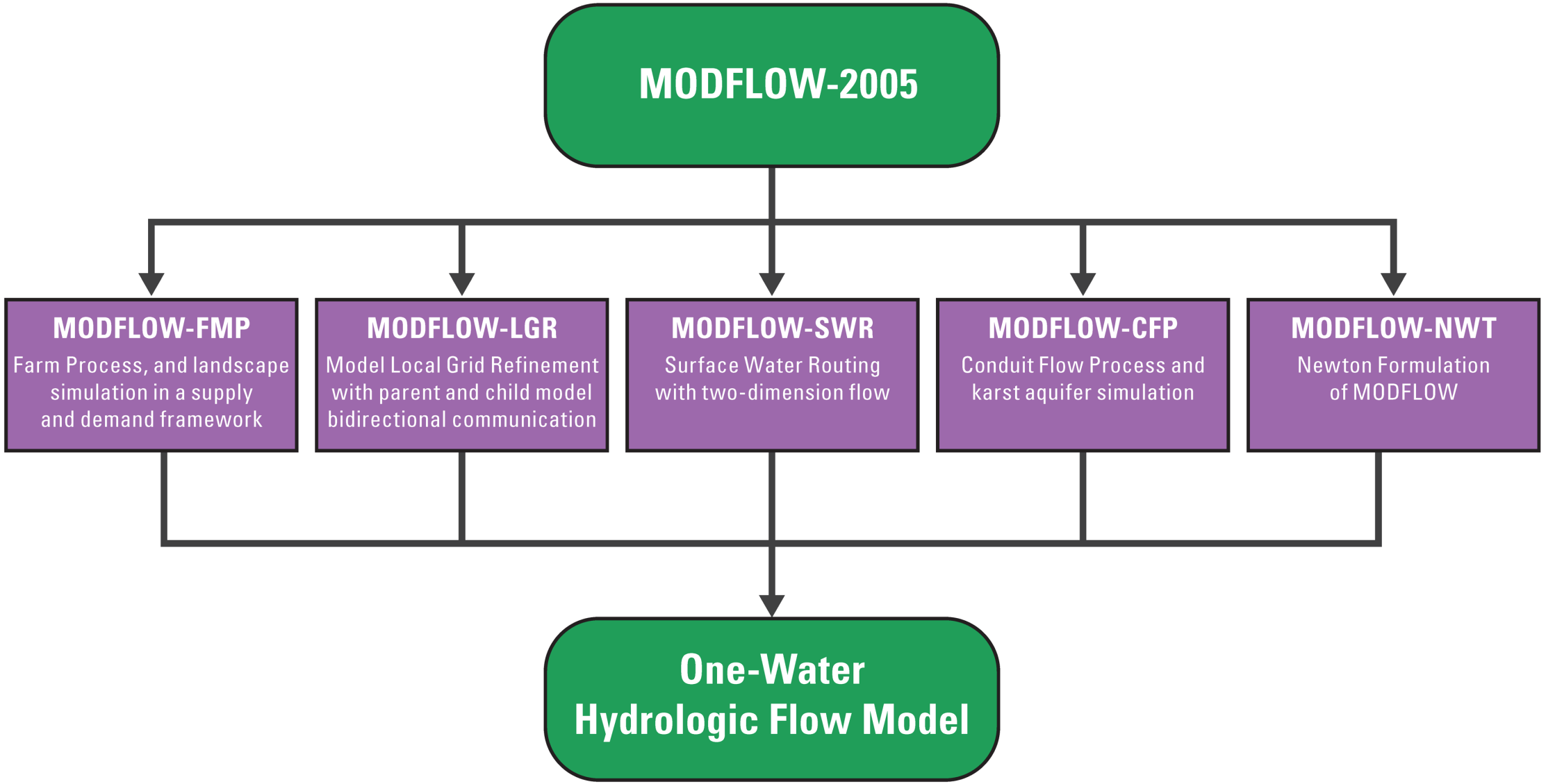
California Water Science Center

https://www.usgs.gov/staff-profiles/scott-boyce

https://www.cee.ed.tum.de/hydrologie/mitarbeiter-list/scott-boyce

USGS science for a changing world

MODFLOW Family of Simulators



MODFLOW
One-Water Hydrologic Flow Model

- MODFLOW-OWHM
  - OWHM is pronounced as ohm (unit of electrical resistance)

- Sometimes is called for short:
  - OneWater
  - OWHM

Boyce, S.E., Hanson, R.T., Ferguson, I., Schmid, W., Henson, W., Reimann, T., Mehl, S.M., and Earll, M.M., 2020, One-Water Hydrologic Flow Model: A MODFLOW based conjunctive-use simulation software: U.S. Geological Survey Techniques and Methods 6–A60, 435 p., https://doi.org/10.3133/tm6A60

code.usgs.gov

- USGS now has an open-source repository runs on the GitLab Framework.
  - Note there are two popular git source repository websites:
    - Github
      - Facebook of code development
    - Gitlab
      - Practical code releases (more business oriented)

https://code.usgs.gov/modflow/mf-owhm

Boyce, S.E., 2022, MODFLOW One-Water Hydrologic Flow Model (MF-OWHM) Conjunctive Use and Integrated Hydrologic Flow Modeling Software, version **2.2.0**: U.S. Geological Survey Software Release, https://doi.org/10.5066/P9P8I8GS

- Scroll past code to see the Readme for background info and download links

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MODFLOW One-Water Hydrologic Flow Model

Project ID: 3320

Star 1

OWHM OneWater Conjunctive Use + 6 more

57 Commits **3** Branches **6** Tags **439.7 MB** Files **439.7 MB** Storage

MODFLOW OWHM Official Download and Source Repository

For download links and background info go to the README

or scroll down until you see the MF-OWHM banner

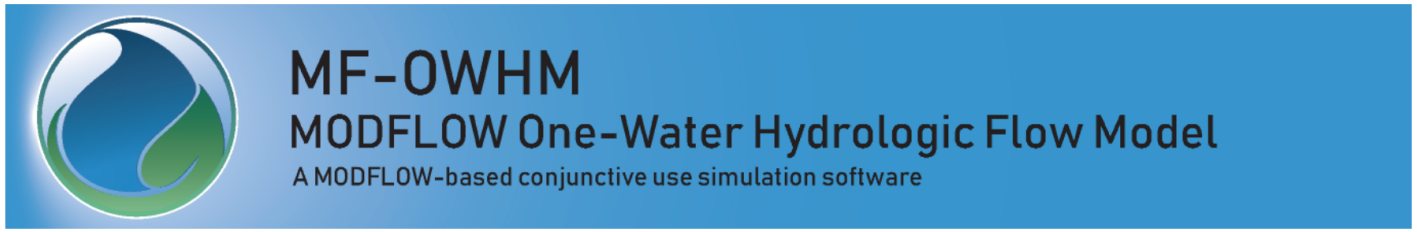
main mf-owhm History Find file Clone

refactor: lpf and upw expanded comment support
Scott Boyce authored 3 weeks ago
b00132fa

README Apache License 2.0 CHANGELOG CONTRIBUTING

Name	Last commit	Last update
.util	2.2.0 production release code	1 month ago
.vscode	initial commit	1 year ago

- If you scroll the webpage down, past the code, you will see the readme
  - Contains background information
  - Changelog of fixes and features
  - Download links



IPDS No. `IP-136416`

Version 2.2.0

MODFLOW One-Water Hydrologic Flow Model (MF-OWHM) Conjunctive Use and Integrated Hydrologic Flow Modeling Software.

Pronounced as Mod-Flow-Ohm (mäd flō ōm) or colloquially called OneWater.

Version Release Notes

- CHANGELOG.md for bug fixes and issues that have been resolved.
- CHANGELOG_Features.md for new features added.

- code.json for version metadata as a text file in json format.

Important Repository Branches

If new to git branching and tagging, please review the **Git Branches Section**,
which describes the major branches in this repository.

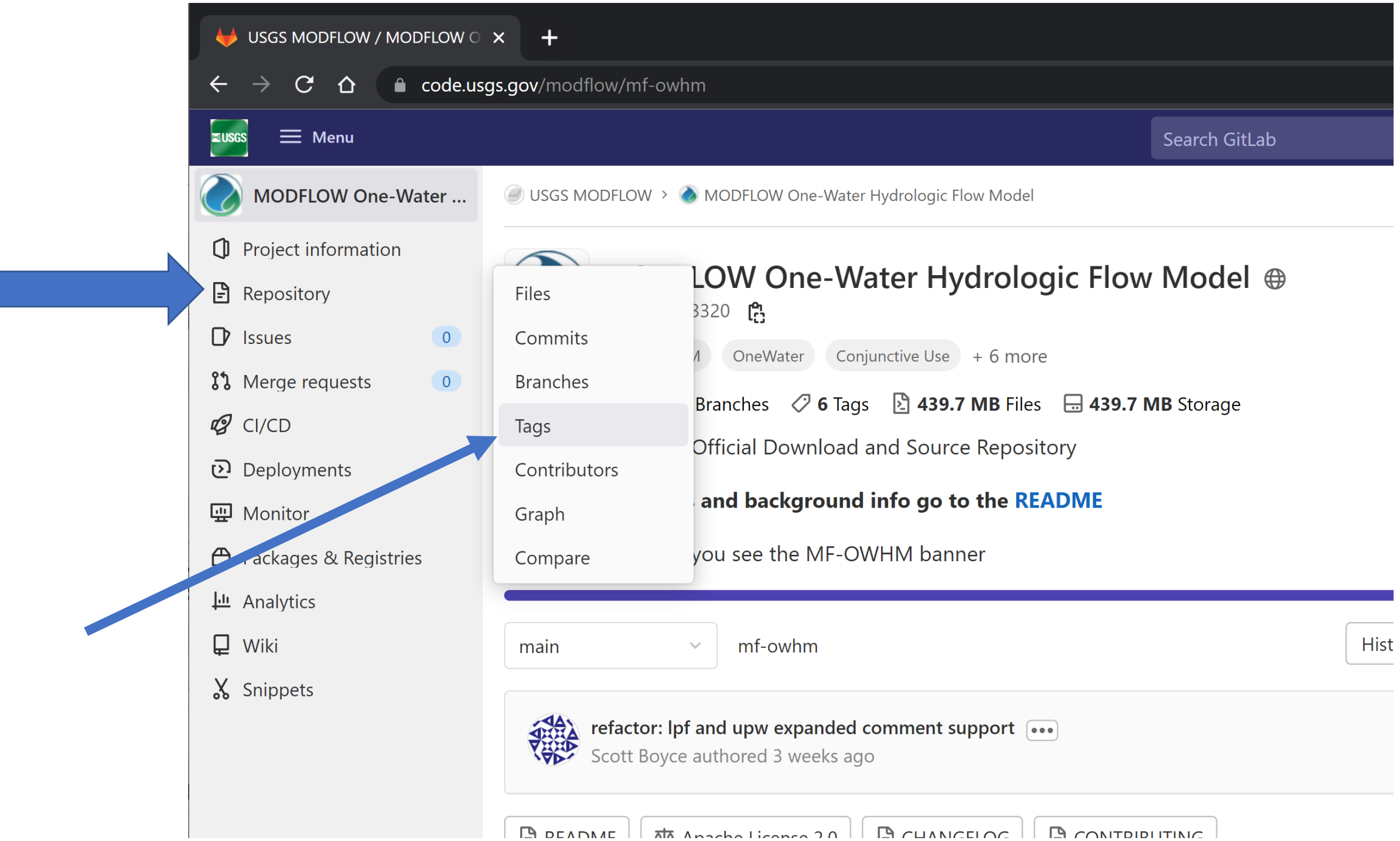
For help on how to download a specific version see the **Git Tags Section**
which explains how the *Git Tags Page* works to download specific mf-owhm versions.

Downloads

The following downloads the latest 64-bit executables for Windows (`.exe`) and Ubuntu Linux (`.nix`)
and includes the source code, examples, postprocessors, and supplemental documentation (`~40MB` download).

- **Current Release Version Download** ➤ *Recommended option*
- **Specific Version Downloads on Git Tags Page**

The following downloads the latest Windows x64 executable only: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+ 6 more
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Scott Boyce authored 3 weeks ago
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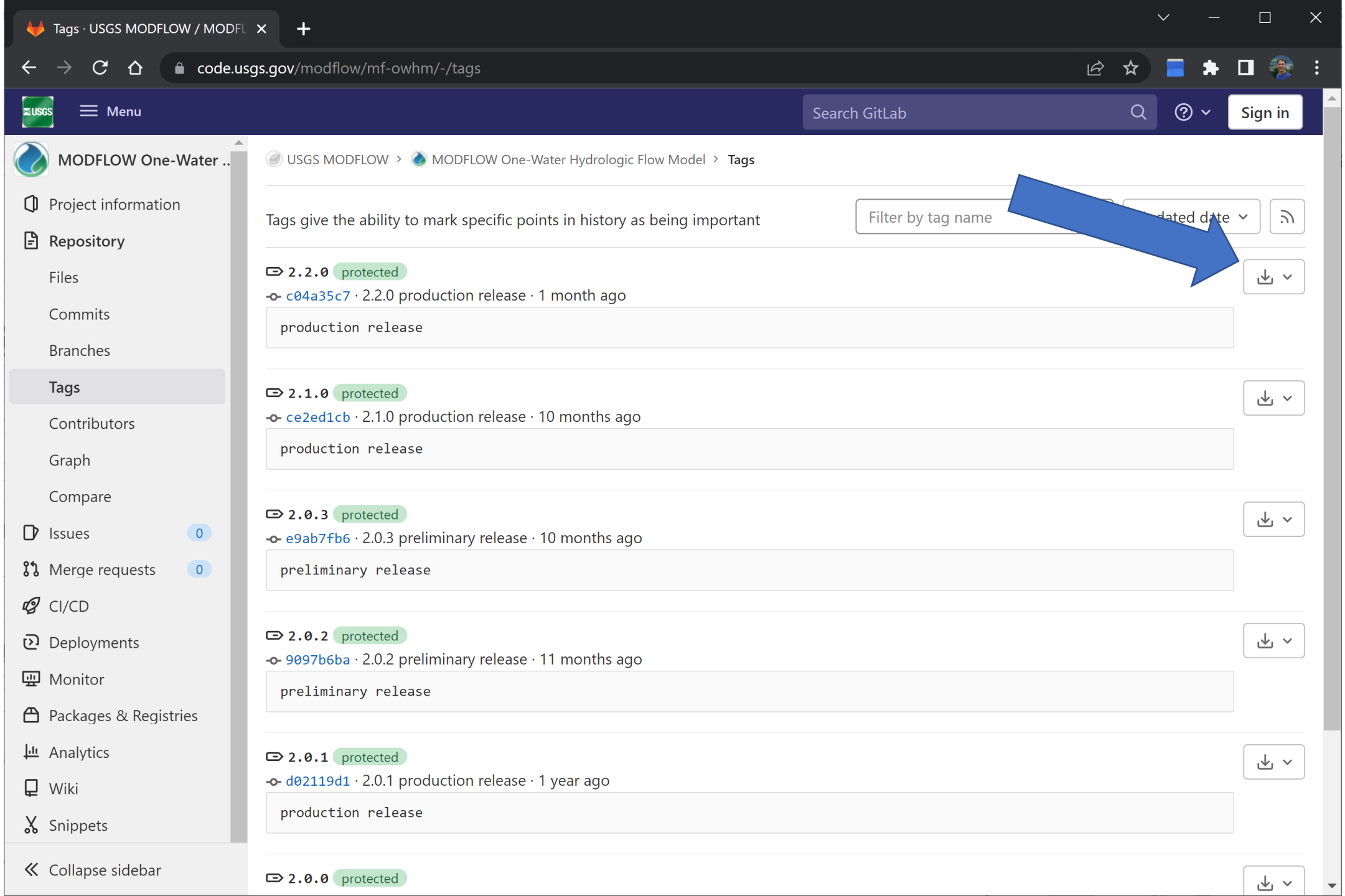
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9097b6ba · 2.0.2 preliminary release · 11 months ago
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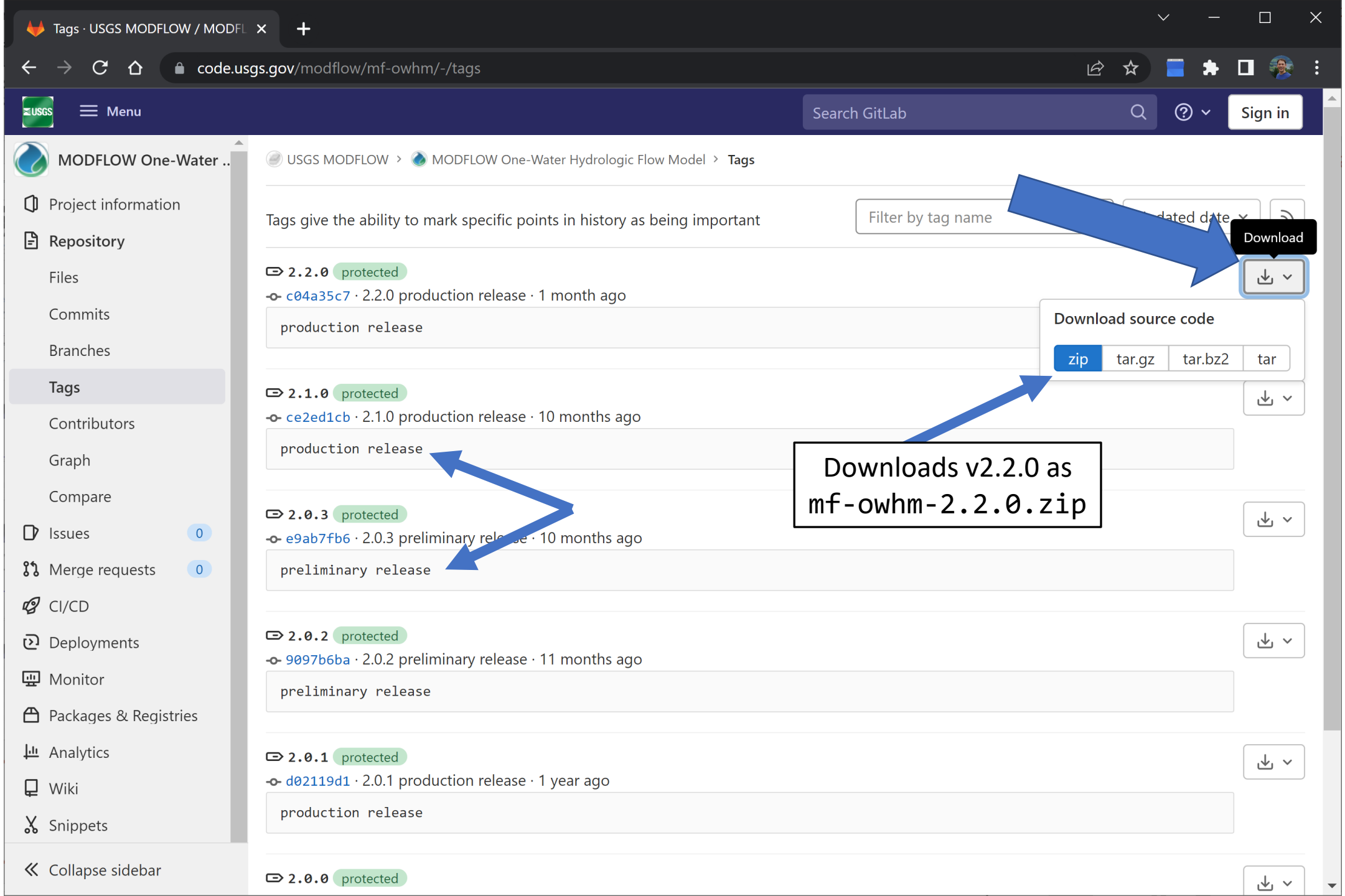
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Production and Preliminary Releases

- Production
  - Has USGS IPDS # (USGS documentation ID)
  - Undergone full USGS code peer review
  - Contains a Production Disclaimer

- Preliminary
  - Has not been code peer reviewed
    - However, it is only a modification to a previously approved release
    - Option used to save on time when changes are only minor to code base
  - Contains a Preliminary Disclaimer

Thanks

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