

Update: DSM2 CNRA Open Data Portal

California Natural Resources Agency Open Data Web Site

32nd CWEMF Annual Meeting, April 20, 2026



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DSM2

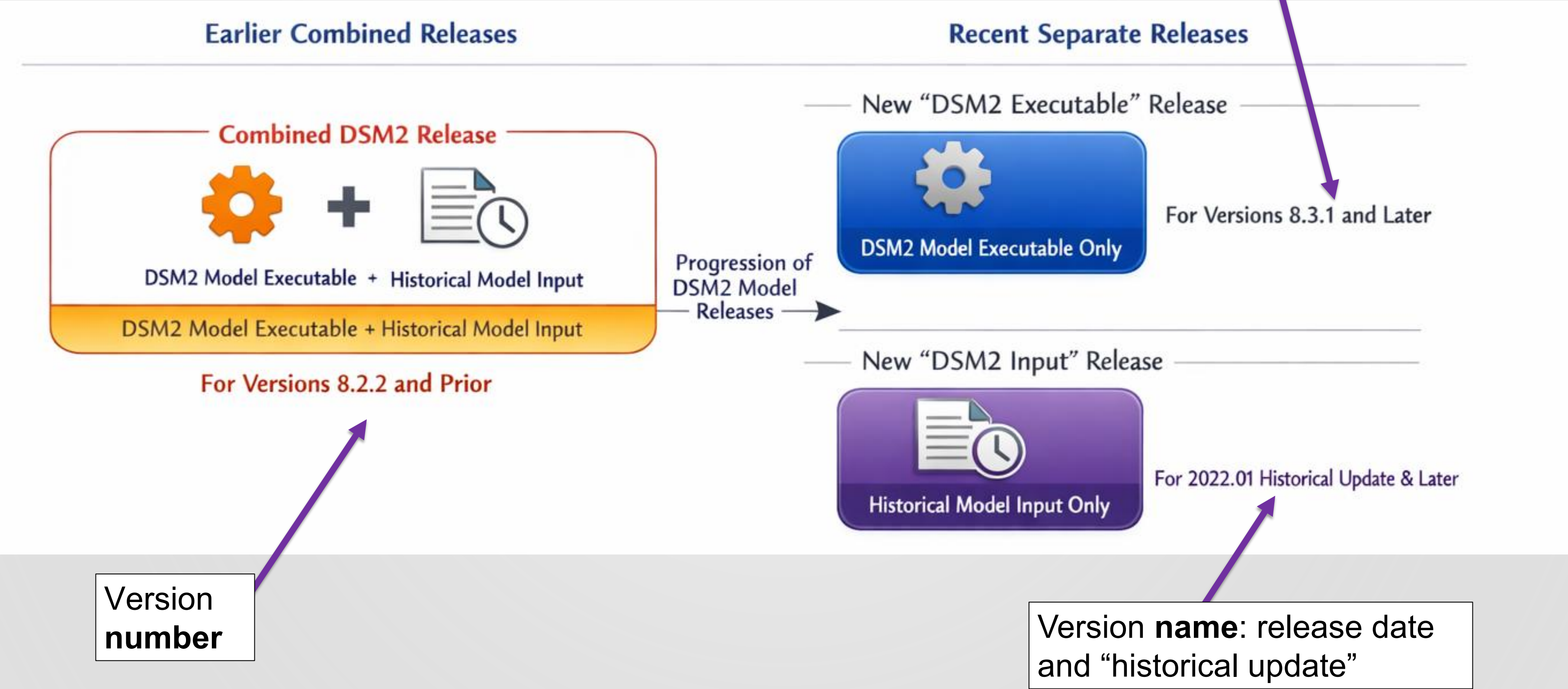


Overview

Changes to
DSM2
Releases

Finding DSM2
Resources on
Open Data

Changes to DSM2 releases



Overview

Changes to
DSM2
Releases

Finding DSM2
Resources on
Open Data

DSM2 Open Data page

<https://data.cnra.ca.gov/dataset/dsm2>

Introduction,
license,
disclaimer

Latest
versions
identified



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DSM2

DSM2 models, data, and other resources. The links are in chronological order, with most recent releases at the top.

- The Delta Simulation Model II (DSM2) is a river, estuary, and land modeling system. It is a one-dimensional mathematical model for dynamic simulation of one-dimensional hydrodynamics, water quality and particle tracking in a network of riverine or estuarine channels. DSM2 can calculate stages, flows, velocities, mass transport processes for conservative and non-conservative constituents including salts, water temperature, dissolved oxygen, and trihalomethane formation potential, and transport of individual particles. DSM2 thus provides a powerful simulation package for analysis of complex hydrodynamic, water quality, and ecological conditions in riverine and estuarine systems.
- DSM2 is licensed under the GNU General Public License. This means it can be copied, distributed, and modified freely, but you may not restrict others in their ability to copy, distribute, and modify it. See GNU General Public License for more details. *For more information: <https://water.ca.gov/Library/Modeling-and-Analysis/Bay-Delta-Region-models-and-tools/Delta-Simulation-Model-II>
- The latest version of the DSM2 executables is v8.4.2. The latest version of the model input is DSM2 Input 2025-09-18 historical update.

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Organization



California Department of Water Resources

DWR manages California's water resources, systems, and infrastructure, including

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Data and Resources

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DSM2 Input 2025-09-18 historical update

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DSM2 Input 2025-07-03 historical update

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ZIP

DSM2 v8.4.2

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DSM2 Input 2025-05-28 historical update 🔥

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DSM2 v8.4.1 🔥

This release is a patch version release of DSM2, mainly to increase the stack...

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DSM2 Open Data page: Links

Separate model
input and executable
releases

More frequent
releases

combined model
input and executable
releases



California Department of Water Resources
DWR manages California's water resources, systems, and infrastructure, including the State Water Project (SWP), in a responsible, sustainable way.
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DSM2 v8.4.1 🔥
This release is a patch version release of DSM2, mainly to increase the stack...

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South Delta Monitoring Special Studies (MSS)

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DSM2 FC.2023.01 🔥

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DSM2 2023.01 Historical Update 🔥
Historical update 2023.01 validated with DSM2 v8.2.2

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DSM2 2023.01 Historical Update Output 🔥
DSS output files for 2023.01 Historical Update

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DSM2-Hg / Open Water Mercury Program inputs 🔥
A zip file containing the DSM2-Hg model, and inputs for the Open Water...

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DSM2 2022.01 Historical Update 🔥
Historical update 2022.01 validated with DSM2 v8.2.2.

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DSM2 2022.01 Historical Update Output
DSS output files for 2022.01 Historical Update

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DSM2 v8.3.1 🔥
DSM2 v8.3.1 includes a debugging message level implementation to control the...

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DSM2 v8.2.2 🔥

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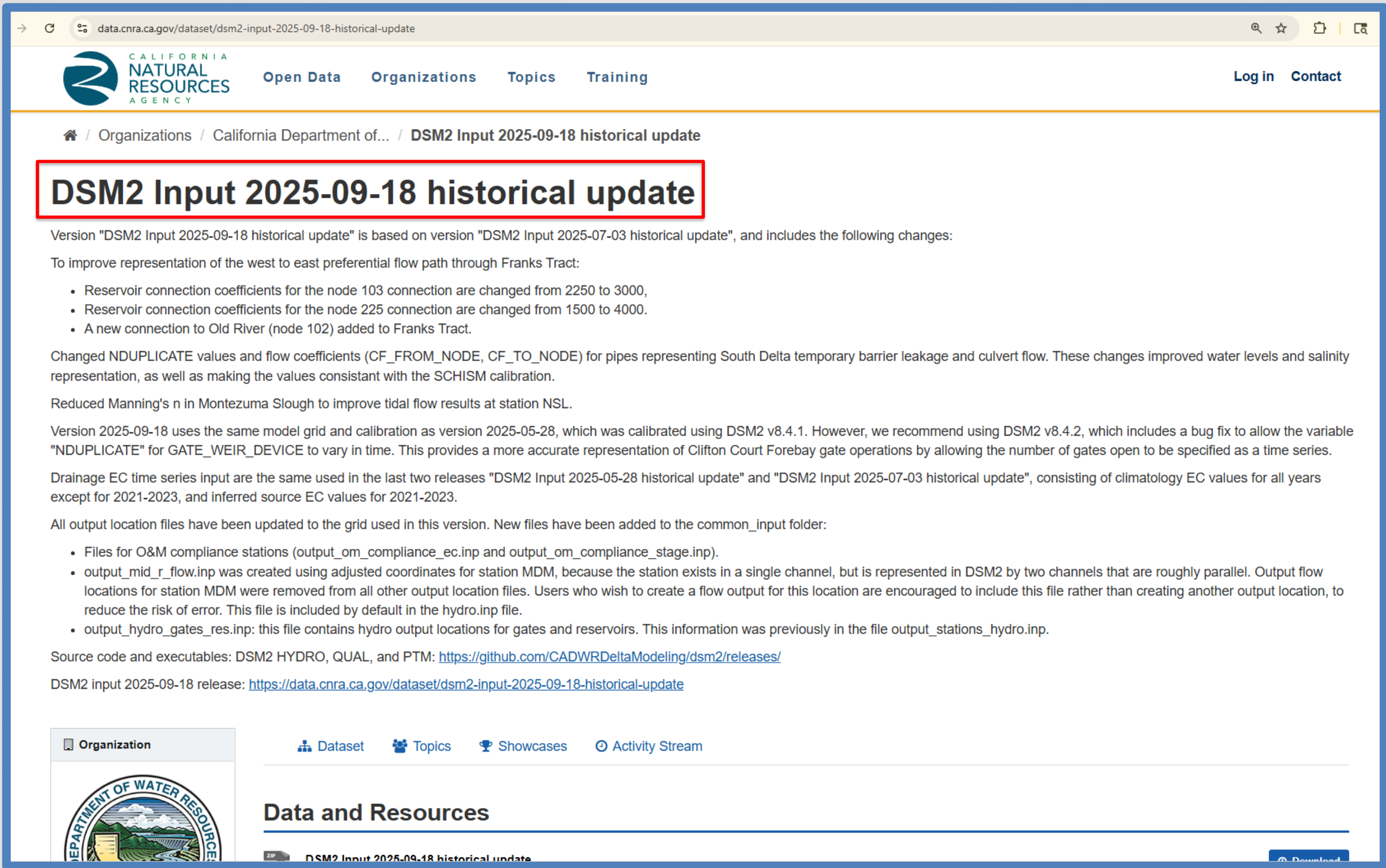
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DSM2 v8.2.1 🔥

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Latest version release page – release notes

Release notes



data.cnra.ca.gov/dataset/dsm2-input-2025-09-18-historical-update

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DSM2 Input 2025-09-18 historical update

Version "DSM2 Input 2025-09-18 historical update" is based on version "DSM2 Input 2025-07-03 historical update", and includes the following changes:

To improve representation of the west to east preferential flow path through Franks Tract:

- Reservoir connection coefficients for the node 103 connection are changed from 2250 to 3000,
- Reservoir connection coefficients for the node 225 connection are changed from 1500 to 4000.
- A new connection to Old River (node 102) added to Franks Tract.

Changed NDUPLICATE values and flow coefficients (CF_FROM_NODE, CF_TO_NODE) for pipes representing South Delta temporary barrier leakage and culvert flow. These changes improved water levels and salinity representation, as well as making the values consistent with the SCHISM calibration.

Reduced Manning's n in Montezuma Slough to improve tidal flow results at station NSL.

Version 2025-09-18 uses the same model grid and calibration as version 2025-05-28, which was calibrated using DSM2 v8.4.1. However, we recommend using DSM2 v8.4.2, which includes a bug fix to allow the variable "NDUPLICATE" for GATE_WEIR_DEVICE to vary in time. This provides a more accurate representation of Clifton Court Forebay gate operations by allowing the number of gates open to be specified as a time series.

Drainage EC time series input are the same used in the last two releases "DSM2 Input 2025-05-28 historical update" and "DSM2 Input 2025-07-03 historical update", consisting of climatology EC values for all years except for 2021-2023, and inferred source EC values for 2021-2023.

All output location files have been updated to the grid used in this version. New files have been added to the common_input folder:

- Files for O&M compliance stations (output_om_compliance_ec.inp and output_om_compliance_stage.inp).
- output_mid_r_flow.inp was created using adjusted coordinates for station MDM, because the station exists in a single channel, but is represented in DSM2 by two channels that are roughly parallel. Output flow locations for station MDM were removed from all other output location files. Users who wish to create a flow output for this location are encouraged to include this file rather than creating another output location, to reduce the risk of error. This file is included by default in the hydro.inp file.
- output_hydro_gates_res.inp: this file contains hydro output locations for gates and reservoirs. This information was previously in the file output_stations_hydro.inp.

Source code and executables: DSM2 HYDRO, QUAL, and PTM: <https://github.com/CADWRDeltaModeling/dsm2/releases/>

DSM2 input 2025-09-18 release: <https://data.cnra.ca.gov/dataset/dsm2-input-2025-09-18-historical-update>

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DSM2 Input 2025-09-18 historical update

Version "DSM2 Input 2025-09-18 historical update" is based on version "DSM2...

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DSM2 Results 2025-09-18 historical update

Plots and metrics of DSM2 Input 2025-09-18 historical update vs previous...

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DSM2 v8.4.2

[No Title]

The filename for the DSM2 v8.4.2 executables is dsm2-8.4.50dccf19-win64.zip....

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DSM2 Grid 2025-09-03 historical shapefiles

Same as version "DSM2 Grid 2025-07-03 historical", with connection added from...

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DEM for Modeling, Version 4.3

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Bathymetry files, version 2025-05-28

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DSM2 input release

plots and metrics

Executables

Model grid shapefiles

Link to DEM used for geometry updates

CSDP bathymetry files

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Summary

- Recent DSM2 releases are either executables **or** input
 - the version your study is based on should be an input release name (not a number)
- DSM2 CNRA Open Data page
 - download links
 - release notes
 - related files

Questions?

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