

Source Code Public Distribution

December 2022

The current version of CHPS now available for operational use at NWS RFCs is CHPS-22.1.1. This source code is a snap shot of the current release of OHD Models in OHD-CORE-21.1.1.

To acquire the source code distribution, go to the following ftp site (no login is required):

https://hydrology.nws.noaa.gov/CHPS/Official_CHPS_Releases/Source_Code

You will find the following files:

File Name	Purpose
Source_Code_ReadMe.pdf	This file
chps_fewsAdapter.tar.gz	OHD FEWS Adapter source code
chps_fortran_models.tar.gz	OHD Models (Fortran) source code
chps_java_models.tar.gz	OHD Models (Java) source code
chps_java_utilities.tar.gz	OHD Utilities (Java) source code

Note: Documentation for these OHD Models can be found here:

<https://vlab.noaa.gov/web/chps/owp-documentation>

Contents

The source code distribution contains the following software:

1. OHD FEWS Adapter

2. OHD Models - Fortran

- Baseflow
- Channel Loss
- Consumptive Use
- Joint Reservoir Regulation (Res-J)
- Single Reservoir Regulation (RES-SNGL)
- SSAR Channel Routing
- SSARR Reservoir Regulation

3. OHD Models – Java

- Baseflow
- Channel Loss
- Continuous Incremental API
- Glacier Routing
- Gridded Snow-17
- Lag and K Routing
- Layered Coefficient Routing
- Muskingum Routing
- Rain-Snow Elevation
- Sacramento Soil Moisture Accounting (SAC-SMA)

- Sacramento with Heat Transfer (SAC-HT)
- SNOW-17
- Tatum Coefficient Routing
- Unit Hydrograph

4. OHD Utilities – Java

- HEFS
 - MEFP
 - MEFP PE
- NOTE 1: OWP provides support for the above software to NWS RFCs; we do not have resources at the present time to provide training or support to non-NWS users of CHPS.
- NOTE 2: OWP will gladly accept feedback concerning software bugs for future consideration but with no guarantee that fixes will be incorporated. Should you wish to report an error, please contact Shaif.Hussain@noaa.gov.

Dependencies

- CHPS-22.1.1 source code has been built using Java 11. OWP cannot guarantee that CHPS will work correctly with other versions of Java.

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The software has been tested, but as with any complex software, there could be undetected errors. Users who find errors are requested to report them to the OWP (Shaif.Hussain@noaa.gov). The OWP has limited resources to assist non-NWS users and is not obligated to fix reported problems; however, we do make an attempt to fix reported problems whenever possible.