

HAMweather, LLC

HW3 Rivers Plug-in

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Overview

HW3 Rivers Plug-in Overview

HAMweather 3 Rivers Plug-in

Overview:

The HW3 Rivers plug-in integrates the ability for HAMweather 3 to display river and lake gauge readings for many rivers and lakes around the United States.

A. Functionality

The plug-in adds the ability to display recent and current river and lake gauge readings, as well as normal stage levels, historical stage readings, and predicted stage forecast. This plugin will also show critical flood stage heights, and the current flood stage that is in effect. Users have the ability to search for river gauge data by using one of the following methods:

1. Rivers Gauge ID
2. Nearby Gauge Locations from a local search
3. Google Maps interface.
4. Plotting of Observations on custom maps.

B. Data Source

The HW Rivers plug-in includes a database table of river and lake gauges for many US locations. This allows HW3 to quickly display useful information for each river and lake gauge location, as well as provide for simple Google maps integration. HAMweather, LLC attempts to update this core database at least every 6 months with the latest individual river gauge information.

For the plugin to plot maps, an import script must be automated to run hourly to populate a database table with the latest river gauge data. This data is provided in CSV format and provided by HAMweather, LLC

The HW3 Rivers plug-in obtains the observation data from the public domain NOAA web servers. The data is public domain and there are no required ongoing costs associated, though NOAA does request that credit be given to the NOAA Advanced Hydrologic Prediction Service in all output where the Rivers Data is displayed.

Documentation:

This document can be found at the following locations:

Online HTML:

http://www.hamweather.com/hw3/docs/hw3php/plugins/HW3_rivers

PDF:

http://www.hamweather.com/hw3/docs/hw3php/plugins/HW3_rivers/HW3_rivers.pdf

Revisions

HW3RiversReleaseChanges

Latest Document Revision: 1/17/2009 1:39:01 PM

Release 1.2

- Removed `adodb_lite` because of security issue, replaced with full `adodb`. Edited `HWFetchRivers` to include the full `adodb`.

Release 1.1

- Fixed issue in the `HWFetchRivers.php` that was decrementing the forecast year on a month roll over.
- Added `optional_integration` for users who want to add a rivers tab to locations who have rivers data with in X miles of the location the forecast is for. You can also follow the documentation to add the closest river data to the almanac area (similar to the tides plugin)
- Corrected the `HWFetchRivers.php` to allow setting "`maxdistance=20`" in the "[RIVERS]" section of config. This allows you to control the mix distance to look for rivers when calling the plugin with out a river gauge or when calling to get the near by rivers
- corrected some style issues in the `templates/riversnearby.html` and `templates/include/rivers_nearby.html` templates
- corrected paths in the `riversmap.html` template that was incorrectly referring to a buoys directory for the zoom in/out icons
- Corrected path issue in the `riversimportobs.php`
- added support for following redirection in `riversimportobs.php`
- made adjustments to `riversimportobs.php` to correct issues with some servers not working properly on the first call
- made adjustments to `riversimportobs.php` to correct issues with some servers giving warnings for some curl items and functionality in safe mode.

Release 1.0 Final

- Initial Release

Release 1.0.5b

- corrected bug in the optional [RIVERS] database config usage (was pulling from the incorrect section)
- added support for new `maxdistance=#` setting in the [RIVERS] section. When set to a value > 0 , the value will be used to list nearby river gauges. i.e. the nearby tab or "`hw3.php?forecast=riversnearby`"

Release 1.0.4b

- edited rivers_found.html to remove hard coded url to use %%scripturl%%
- added riversnearby.html template. Now you can call the plugin with `hw3.php?forecast=riversnearby&zipcode=30301` to receive a list of nearby locations

Release 1.0.3b

- Minor bug fixed in the MakeRiversMap.php
- Fixed issue with latest ob time not matching the latest ob in the history. changed templates/include/rivers_found.html and river_obsummary.html
- Added support for DST with the times. Changed HWFetchRivers.php

Release 1.0.2b

- edited the blankmaps/us_640×480.txt to be ALBERS2 projections
- added us_480×360.txt and us_320×240.txt to the blank maps dir
- edited the riversmap.html to switch hard coded hw3.php to %%scripturl%%

Release 1.0.1b

- Initial Beta Release

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Support

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<http://support.hamweather.com>

Installation

Requirements

Requirements for HW3 Rivers Plug-in.

Basic Requirements:

The HW3 Rivers Plug-in only requires the following:

- HW3php 3.9.9 or newer using the MySQL Database
- HW Plugin API 1.7 or newer
- A minimum of 6MB of disk space is required for the Rivers Gauge database. If you choose to use the Archive option, an estimated 100MB additional database disk space is required each month for the River Gauge archive data, or approximately 3.5MB per day).
- Google Map API Key is required for the Google Map integration. The Google Map API Key may be obtained at <http://code.google.com/apis/maps/signup.html>
- All pages displaying rivers and lake gauge information must abide by the NOAA Credit Requirement - - NOAA requests the following credit be given "Data provided by NOAA Advanced Hydrologic Prediction Service"

Installation

HW3 Rivers Plug-in Installation

Installation

Installation of the HW3 Rivers plug-in can be performed via the following steps:

1. Import the hwrivers.sql file located in the install directory into the HAMweather 3 MySQL database. This may be performed via PHPMyAdmin, the MySQL command line or other means. Once hwrivers.sql has been loaded into MySQL, you may remove the file from your installation, as it is no longer required.
2. Copy over all files to the respective directories of your HAMweather 3 installation.
NOTE: Do not upload the install directory to your server.
3. Set up a cron entry to run the "riversimportobs.php" script at least once an hour but no more than once every 15 minutes.

4. If you want to archive the observations, edit riversimportobs.php at line 22 and change:

```
$bArchive = false;  
to  
$bArchive = true;
```

NOTE: Archive data will use approx 3.5 MB per day.

5. If you are planning to use the Google Map integration, you will need to obtain a Google Map API Key, via the url below:

<http://code.google.com/apis/maps/signup.html>

6. If you have changed the default HW3 page from hw3.php to a different name, you will need to edit the file hwextras_common.php located in your default HW3php directory. Change the assignment made to the variable \$hw3url, where you have hw3.php to the name you use to call HW3 (ie. index.php).

7. Edit your installations configs/hw3.ini.php file, towards the end of this file insert:

```
[Google]  
mapkey=XXXXXXXX
```

Where XXXXX is the Google Map API key provided by Google.

Alternate DB Installation

HW3 Rivers Plug-in Alternate Database Installation

Installation

Installation of the HW3 Rivers plug-in using a stand alone alternate rivers information database can be performed via the following steps:

1. Import the river_stations.sql file into the HAMweather 3 MySQL database. This may be performed via PHPMyAdmin, the MySQL command line or other means. Once the river_stations.sql has been loaded into MySQL, you may remove the file from your installation, as it is no longer required.
2. Add the following to fc_river.ini.php:

```
[rivers]
database_name=DBNAME
hostname=DBHOST
username=DBUSER
password=DBPASSWORD
```

Substitute DBNAME, DBHOST, DBUSER and DBPASSWORD with your database connection information.

3. Copy over all files to the respective directories of your HAMweather 3 installation.
4. If you are planning to use the Google Map integration, you will need to obtain a Google Map API Key, via the url below:

<http://code.google.com/apis/maps/signup.html>

5. If you have changed the default HW3 page from hw3.php to a different name, you will need to edit the file riversfrontmapclick.php, located in your default HW3php directory. Change the HW3 URL links where you have hw3.php to the name you use to call HW3 (ie. index.php).
6. Edit your installations configs/hw3.ini.php file, towards the end of this file insert:

```
[Google]
mapkey=XXXXXXXX
```

Where XXXXX is the Google Map API key provided by Google.

Expanded HW Integration

Expanded HW Integration

Integrating a Rivers Option into the Local Forecast Weather Links

You may modify your nav_state.html template to add the link to the HW3 Rivers local page.

Add your new link with something similar to the following. Included in the distribution, under the optional_implementation/templates/include folder is a sample nav_state template that can be used for comparison, or your original nav_state template can be replaced.

```
<a href="%%scripturl%%?forecast=riversnearby&%%hwvplacequery%%">Rivers</a>
```

Expanded HW Integration

Adding Local River Gauge Readings to the Local Zone Forecast

NOTE: If you did not set up a link in the nav_state.html or another navigation template, are not including nav_state.html or another navigation template which has been set up to be used with the rivers plugin, you must insert this line prior to calling the code outlined in the steps below.

```
%%IF ('%%rivers_total%%' == 0 && '%%forecast%%' ne 'rivers') THEN  
%%hwi=fetchrivers%% IF%%
```

Upload the following from the optional_integration folder into your HW3 installation:

- optional_integration/configs/fc_riverslocal.ini.php
- optional_integration/templates/include/fetchrivers.html
- optional_integration/templates/include/river_local.html

Within your zandh template, or any included template, where you want the local rivers and lakes information to be displayed, add the following line:

```
%%hwi=river_local%%
```

General Usage

Usage

HW3 Rivers Plug-in Usage

To access the HW3 Rivers Plug-in via the standard world map which leads into the Google Map interface browse to the following URL similar to:

```
hw3.php?forecast=pass&pass=riversfront
```

To browse to a River Gauge ID directly use a URL similar to:

```
hw3.php?forecast=riversobs&gauge=MROI2
```

To display a google map:

```
hw3.php?forecast=pass&pass=riversmap&uselon=-83.67&uselat=32.83
```

Specify a map: (Regional maps included in the plugin)

```
hw3.php?forecast=riversmap&usemap=southeast_640x480
```

NOTE: Replace "hw3.php" with the URL to the HW3 script on your server.

Resize Rivers Map

Resize the Rivers Google Map

You can change the size of the map generated by Google Maps on your rivers display by modifying `templates/riversmap.html`.

Look for a line similar to below, and change the highlighted parameters to the desired height and width.

```
<center><div id="mmsmap" style="text-align:center;margin:0; border-style:solid; border-color: #000; border-size: 1px; height:360px; width: 480px; background-color:white;color:black"></div></center>
```