

HAMweather, LLC

HW3 Tides Plugin

Version 1.2.2 - 01/12/2009

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Overview

HW3 Tides Plug-in Overview

HAMweather 3 Tides Plug-in

Overview:

The HW3 Tides plug-in integrates the ability for HAMweather 3 to display tide predictions during the year for many coastal locations around the United States and its territories.

A. Functionality

The plug-in adds the ability to display tide predictions. Users have the ability to search for tide predictions via several methods including:

1. Tides Station Location ID
2. Nearby Tides Station Locations from a local search
3. By month/year (for a specific location)
4. Google Maps interface.

B. Data Source

The HW Tides plug-in includes a database table of tide predictions for many coastal locations. This allows HW3 to quickly display useful information for tide predictions for each of these locations, as well as provide for simple Google maps integration.

HAMweather, LLC will provide the next years tide predictions following the release of said data by NOAA. This normally occurs in the month of November.

Documentation:

This document can be found at the following locations:

Online HTML:

http://www.hamweather.com/hw3/docs/hw3php/plugins/HW3_tides

PDF:

http://www.hamweather.com/hw3/docs/hw3php/plugins/HW3_tides/HW3_tides.pdf

Revisions

HW3Tides ReleaseChanges

Latest Document Revision: 1/17/2009 1:47:08 PM

Release 1.2.2 - 01/12/2009

- Update to 2009 predictions database
- Quick fix to tides.html template to force 2009 year

Release 1.2 - 11/13/2008

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

Release 1.1 - 10/21/2008

- Fixed issue in the tides.html where the incorrect Timezone name variable was used. changed %%tzname%% to %%loctzname%%
- Fixed issue in HWFetchTides.php to support daylight savings time for tidal locations.

Release 1.0 - 10/07/2008

- Initial Release

HW3Tides Beta 4

- edited tides.html & removed "h" in the Large Map link
- fixed bug in tides.html template that didn't keep the selected month on refresh
- removed unused code from HWFetchTides.php
- fixed select box for date in tides.html
- adjusted tidesnbselect to include the current location
- Added month to the date column header & time zones to the time headers in tides.html
- added style to highlight row for current date (if displaying) changed tides.html and hwtides.css
- Added optional_integration directory, which include template structure that users can use to replace their default HW templates to easily integrate local tides & tides tab into HW. Users with custom templates should not use this, except as an example on how to modify their own templates

HW3Tides beta 3a

- Edited tidesmap.html to change image reference to tides directory

- edited tides.html to change a hard link to hw demo to %%scripturl%%
- added missing images.

Changes in HW3Tides Beta 3

- Fixed bugs in hwextras_common.php in the auto loading of settings
- Corrected bu in tidesfrontmapclick.php

Changes In HW3Tides beta 2

- New hwextras_common.php that can pull HW3url & db info from the configs/hw3.ini.php if not set
- Split out style sheet
- New tides.html template
- Edited other templates

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Support

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Installation

Requirements

Requirements for HW3 Tides Plug-in.

Basic Requirements:

The HW3 Tides Plug-in only requires the following:

- HW3php 3.9.8.7 or later using the MySQL Database
- HW Plugin API 1.5.4 or later
- Each year of tidal predictions requires a database table size of approximately 85 MB. An additional 30 MB of hard drive space may be required during the database import process.
- 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>

Installation

HW3 Tides Plug-in Installation

Installation

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

1. Import the hw3tides_db_YYYY_mysql.zip file (where YYYY is the year of the tidal predictions) into the HAMweather 3 MySQL database. This may be performed via the MySQL command line or other means, such as BigDump (<http://www.ozerov.de/bigdump.php>). Once the hw3tides_db_YYYY_mysql.zip 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.
3. 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>

4. 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).
5. Edit your installations configs/hw3.ini.php file, towards the end of this file insert:

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

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

Alternate DB Installation

HW3 Tides Plug-in Alternate Database Installation

Installation

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

1. Import the hw3tides_db_YYYY_mysql.zip file (where YYYY is the year of the tidal predictions) into an alternate database that has been prepared in advance, and is separate from the default HAMweather 3 MySQL database. This may be performed via the MySQL command line or other means, such as BigDump (<http://www.ozerov.de/bigdump.php>).
2. Add the following to fc_tide.ini.php:

```
[tide]
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 tidesfrontmapclick.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 Tides Option into the Local Forecast Weather Links

If you are using the default HW3 nav_state.html template, simply copy the template found in the distribution at optional_integration/templates/include/nav_state.html into your HW installation templates/include directory.

If you are using a custom nav_state.html template:

1. At the top of your templates/include/nav_state.html template, or another template of your choice, insert the following line:

```
%%IF ('%%tides_total%%'+0 == 0 && '%%forecast%%' ne 'tides') THEN  
%%hwi=fetchtides%% IF%%
```

NOTE: If you plan to use a link somewhere other than the nav_state.html template, you must insert this line prior to calling your link.

2. Add your new link with something similar to the following. Please use a sample link from the nav_state.html template:

```
%%IF99 ('%%tides_total%%' > 0) THEN99 __  
<a href="  
%%scripturl%%?config=%%url_config%%&forecast=tides&%%hwwplacequery%%"  
>Tides</a> __  
IF99%%
```

Expanded HW Integration

Adding Local Tidal Predictions to the Local Zone Forecast Almanac

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 tides plugin, you must insert this line prior to calling the code outlined in the steps below.

```
%%IF ('%%tides_total%%' == 0 && '%%forecast%%' ne 'tides') THEN
%%hwi=fetchtides%% IF%%
```

If you are using the default HW3 astro_info.html template, simply copy the template found in the distribution at optional_integration/templates/include/astro_info.html into your HW installation templates/include directory.

If you are using a custom astro_info.html template, then insert the lines similar to the bold typeface lines below into your existing templates/include/astro_info.html template: (Using the default astro_info.html as an example)

```
%%let hwvfontsize= '-1' let%%
<!-- BEGIN ASTRO INFO //-->
%%FORECAST forecast=suninfo tz=%%tzdif%% FORECAST%%
<div id="astro">
<table border="0" width="100%" >
  <tr>
    <td class="Label">Sunrise:</td>
    <td align="left"><span class="Value">%%uc_sunrise1%%
%%uc_tzname%%</span></td>
    <td class="Label" align="center" rowspan="4" valign="top">Moon Phase:<br />
    <span class="Moonname">%%pc_moon_phase_name%%</span><br>
    
    </td>
  </tr><tr>
    <td class="Label">Sunset:</td>
    <td align="left"><span class="Value">%%uc_sunset1%%
%%uc_tzname%%</span></td>
  </tr><tr>
    <td class="Label">Moon Rise:</td>
    <td align="left"><span class="Value">%%uc_moonrise1%%
%%uc_tzname%%</span></td>
  </tr><tr>
    <td class="Label">Moon Set:</td>
    <td align="left"><span class="Value">%%uc_moonset1%%
%%uc_tzname%%</span></td>
  </tr>
  %%LET hwvplacequery= ('%used_icao%') ? 'icao=%icao%' :
  'place=%url_place%&state=%url_state%&zipcode=%url_zipcode%&country=%url_
country%&county=%county%&zone=%zone%&icao=%url_icao%'; LET%%
  %%IF ('%%tides_total%%' >0) THEN __
  <tr><td class="Label"><a class="Label"
href="%%scripturl%%?config=%url_config%&forecast=tides&%%hwvplacequery%">High
Tides</a></td> __
```

```
<td align="left" colspan="2"><span
class="Value">%uc_tideinfo0_vvHam% %%IF2 ('%tideinfo0_vvHamHeight%' ne '')
THEN2 (%tideinfo0_vvHamHeight%ft)
IF2%%&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;%uc_tideinfo0_vvHpm% %%IF2
('%tideinfo0_vvHpmHeight%' ne '') THEN2 (%tideinfo0_vvHpmHeight%ft)
IF2%%</span></td>
</tr><tr><td class="Label"><a class="Label"
href="%%scripturl%%?config=%%url_config%%&forecast=tides&%%hwvplacequery%%">Low
Tides</a></td>
<td align="left" colspan="2"><span
class="Value">%uc_tideinfo0_vvLam% %%IF2 ('%tideinfo0_vvLamHeight%' ne '')
THEN2 (%tideinfo0_vvLamHeight%ft)
IF2%%&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;%uc_tideinfo0_vvLpm% %%IF2
('%tideinfo0_vvLpmHeight%' ne '') THEN2 (%tideinfo0_vvLpmHeight%ft)
IF2%%</span></td>
</tr>
IF%%
</table>
</div>
<!-- END ASTRO INFO //-->
```

General Usage

Usage

HW3 Tides Plug-in Usage

To access the HW3 Tides 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=tidesfront
```

To browse to a Tide Location ID directly use a URL similar to:

```
hw3.php?forecast=tides&alt=tides&locid=1605
```

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

Resize Tides Map

Resize the Tides Google Map

You can change the size of the map generated by Google Maps on your tides display by modifying `templates/tidesmap.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>
```