



Office of Hydrologic Development

**AHPS Configuration
Management System
AHPS CMS
User Documentation 5.3**

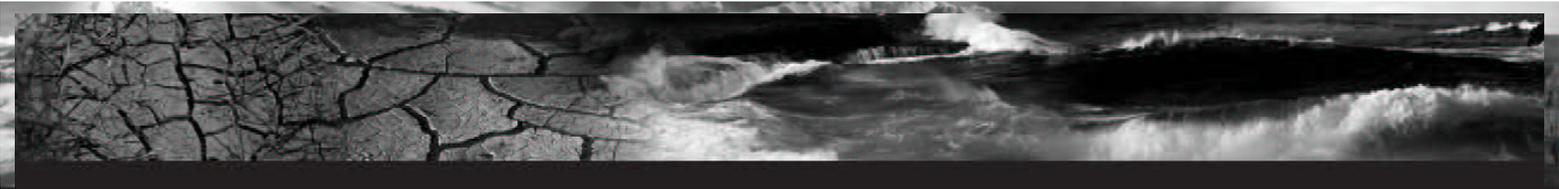


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Background

The AHPS Configuration Management System (AHPS CMS) is a web-based interface designed to manage a National AHPS Web configuration database. This release of the AHPS CMS Version 5.3 will provide users with more control over configurable items on HSA AHPS Web pages. This new interface/database provides users with the following advantages:

- Google Maps Based Inundation Mapping (see index)

Moving the AHPS web configuration data to a completely database driven environment opens up a variety of possibilities for future AHPS web page enhancements such as the previous listed items.

With the release of the NWS CMS, a modular experience has been created. Instead of utilizing "hard-coded" fixed button navigation, users can transition seamlessly throughout the AHPS CMS and NWS CMS (access permitting) by usage of a tabular and dropdown navigation that coincides with the Web presence that is currently implemented on the NWS Water Data homepage water.weather.gov. This allows NWS CMS and AHPS CMS to achieve an overall better NWS standard "look and feel". Following the sections on browser requirements and access information below are instructions on how to use the navigational features as well as graphical representations of what users can expect to encounter when they login to the AHPS CMS.



Web Browser Requirements

This document assumes that end users will either be using Internet Explorer 8.0/9.0, Mozilla Firefox 6+, Google Chrome, Safari 4+ or newer browsers.

Data/Password Security

All web browser connections to the AHPS CMS are encrypted via the standard Secure Sockets Layer (SSL) protocol. Mozilla Firefox, Google Chrome, and Internet Explorer all support SSL, and by convention, URLs that require an SSL connection start with https:// instead of http://. The AHPS CMS does not store any passwords and makes a secure SSL connection to a national LDAP server to authenticate users when logging in.

Support Contact Information

If you happen to encounter any issues with AHPS, please report them through the NWS Telecommunications Operations Center (TOC) trouble ticket system. The email address is:

TOC.NWSTG@noaa.gov

AHPS 24/7 Support Contact Phone:

NWS Telecommunications Operations Center (TOC)
(301) 713-0902



User Accounts/Access

User accounts can be configured to allow access to configuration data for an individual WFO / HSA, multiple HSAs, NWS Regions, and/or national access. Current user account configuration is based on information provided by the NWS Regions and can be modified as needed upon request. Please contact your Region to request any user or account changes.

Once an account has been configured for a user, they will receive email from **nws.cms@noaa.gov**. This email contains information on how and where to log into the AHPS CMS. An example is provided below:

Example email:

From: NWS CMS <nws.cms@noaa.gov>
Date: Tuesday, Mar 20, 2012 10:48 am
To: john.doe@noaa.gov
Subject: New NWS CMS Account

You have been given access to the NWS Configuration Management System (NWS CMS) interface. Your password is the same as your normal NOAA password and will change whenever you change your NOAA password.

You have been given access to the following CMS(s)

AHPS CMS

The URL for NWS CMS interface is:

<https://nwscms.nids.noaa.gov>

Your username is "john.doe@noaa.gov".

Support Information

The URL for AHPS CMS User Documentation is:

https://nwscms.nids.noaa.gov/nwscms/pdf/AHPS_CMS.pdf

You can email TOC.NWSTG@noaa.gov with any questions or comments about the AHPS CMS interface or for immediate 24x7 NWS CMS support, please call: (301) 713-0902.

Regards,
The NWS CMS Admin Team



AHPS CMS URL

The AHPS CMS can be accessed at the following URL:

<https://nwscms.nids.noaa.gov>

Logging into the AHPS-CMS

***Important Note:** All the following graphics show the interface in Mozilla Firefox. The interface may look slightly different depending on the browser you are using.

www.nws.noaa.gov

National Weather Service
Configuration Management System

Home News Organization Search for: NWS All NOAA

Local forecast by "City, St"

Feedback/Questions
Ask Questions

USA.gov
Government Made Easy

Please Login

Username

Password

Note: The username is your full NOAA email address.

US Dept of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
1325 East West Highway
Silver Spring, MD 20910

Disclaimer
Credits
Glossary

Privacy Policy
About Us
Career Opportunities

Web master's email: nws.cms@noaa.gov
login.php last modified at Wed Sep 28 11:44:12 EDT 2011.

Figure 1: AHPSCMS Login Page

To log into the AHPS CMS site shown in (**Figure 1**); users will enter their full noaa.gov email address i.e. "john.doe@noaa.gov" and their email account password then click on . See (**Figure 2**).



www.nws.noaa.gov

National Weather Service
Configuration Management System

Home News Organization Search for: [] NWS All NOAA Go

Local forecast by "City, St"
City, St [] Go

Feedback/Questions
Ask Questions

USA.gov
Government Made Easy

Please Login

Username

Password

Note: The username is your full NOAA email address.

US Dept of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
1325 East West Highway
Silver Spring, MD 20910

Disclaimer
Credits
Glossary

Privacy Policy
About Us
Career Opportunities

Web master's email: nws.cms@noaa.gov
login.php last modified at Wed Sep 28 11:44:12 EDT 2011.

Figure 2: NWS CMS Login Page with User Information

Once a user has successfully logged into the site, they will receive a notice to all users that this is an official government website and is for authorized use only. See (**Figure 3**). At this point users will need to either accept that they are logging into an official government system or logout.



Figure 3: Notice to Users Page

Using the Interface

After clicking on [Accept](#), the end user could see one or multiple NWS CMS Modules depending on the user's access configuration. (**Figure 4**) shows links for AHPS and NWS HSA. In order to access the AHPS CMS, users need to click [AHPS](#). Users will then be directed to a page like the one seen in (**Figures 5 and 6**) which displays links for one or multiple HSAs. In either case, users will select the HSA they wish to view or make Web configuration changes to. Also if users have access to more than one HSA, they can easily sort the lists alphabetically by city or 3-letter HSA ID by clicking either **City** or **Abbrev**.

****Important Note:** Throughout the rest of this document, HSA Caribou, ME (CAR) and HSA Albany, NY (ALY) along with the sensors located within their area of responsibility will be referenced unless otherwise noted. This is only to decrease the complexity of the documentation. All questions not covered by this documentation will be answered via email or phone, and any reoccurring questions will also be added to the FAQ/Help section of the AHPS CMS web site.



www.nws.noaa.gov



National Weather Service

Configuration Management System



Home
News
Organization
Search for:
 NWS All NOAA

Local forecast by "City, St"

City, St

CMS Category

[AHPS](#)

[NWS WFO](#)

[Logout](#)

About NWS CMS

[FAQ / Help](#)

Feedback/Questions

[Ask Questions](#)



NWS CMS Options

Please choose your administrative destination:

AHPS
NWS WFO

US Dept of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
1325 East West Highway
Silver Spring, MD 20910

[Disclaimer](#)
[Credits](#)
[Glossary](#)

[Privacy Policy](#)
[About Us](#)
[Career Opportunities](#)

Web master's email: nws.cms@noaa.gov
choose.php last modified at Wed Aug 10 15:23:43 EDT 2011.

Figure 4: NWS CMS Module Selection Page

www.nws.noaa.gov



National Weather Service

AHPS



Home
News
Organization
Search for:
 NWS All NOAA

Local forecast by "City, St"

City, St

CMS Category

[AHPS](#)

[NWS HSA](#)

[Logout](#)

About AHPS CMS

[FAQ / Help](#)

Feedback/Questions

[Ask Questions](#)



AHPS
NWS HSA

Options:

Click on a column name (City or Abbrev) to sort the HSAs by that column.

City	Abbrev
Caribou, ME	CAR

US Dept of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
1325 East West Highway
Silver Spring, MD 20910

[Disclaimer](#)
[Credits](#)
[Glossary](#)

[Privacy Policy](#)
[About Us](#)
[Career Opportunities](#)

Web master's email: nws.cms@noaa.gov
wfopick.php last modified at Wed Apr 24 12:25:43 EDT 2013.

Figure 5: One HSA (HSA Caribou, ME)



National Weather Service
NWS WFO

www.nws.noaa.gov

Home News Organization Search for: NWS All NOAA

Local forecast by "City, St"
City, St

CMS Category
AHPS
NWS HSA
Logout

About NWS HSA CMS
FAQ / Help

Feedback/Questions
Ask Questions



AHPS NWS HSA

Options:

Click on a column name (City or Abbrev) to sort the WFOs by that column.

City	Abbrev
(Baltimore/Washington) Sterling, VA	LWX
Aberdeen, SD	ABR
Albany, NY	ALY
Albuquerque, NM	ABQ
Amarillo, TX	AMA
Anchorage, AK	PAFC
Anchorage, AK	PAFC3
Anchorage, AK	PAFC2
Austin/San Antonio, TX	EWX
Billings, MT	BYZ
Binghamton, NY	BGM
Birmingham, AL	BMX
Bismarck, ND	BIS
Blacksburg, VA	RNK
Boise, ID	BOI
Boston, MA	BOX

Figure 6: Multiple HSAs

Once users arrive on this page they can observe the tabular NWS CMS module navigation and the "Options" dropdown selection box; (**Figures 7 and 8**) below highlight the navigational items and briefly discuss how they are used.



Tabular NWS CMS Module Navigation

www.nws.noaa.gov

National Weather Service
AHPS

Home News Organization Search for: NWS All NOAA

Local forecast by "City, St"
City, St

CMS Category
AHPS
NWS HSA
Logout

About AHPS CMS
FAQ / Help

Feedback/Questions
Ask Questions

USA.gov
Commerce and Justice

Options: - Pick HSA

Click on a column name (City or Abbrev) to sort the HSAs by that column.

City	Abbrev
Caribou, ME	CAR

US Dept of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
1325 East West Highway
Silver Spring, MD 20910

Disclaimer
Credits
Glossary

Privacy Policy
About Us
Career Opportunities

Web master's email: nws.cms@noaa.gov
wfopick.php last modified at Wed Apr 24 12:25:43 EDT 2013.

Figure 7: NWS CMS Tabular Module Navigation

The NWS CMS has been built to provide a modular experience, users can simply mouse over the appropriate tab of the module they wish to edit and click; this action will redirect the users to the selected NWS CMS module. In **(Figure 7)** above, the user has access to two separate NWS CMS Modules, AHPS CMS and NWS HSA CMS. This user has the ability to configure items related to their WFO/HSA or make changes to one or more HSA's information depending upon their access configuration. **NWS HSA CMS** will be covered in **Appendix A** of this document.



“Options” Dropdown Selection Box

The screenshot displays the National Weather Service AHPS interface. At the top, the NOAA logo and 'National Weather Service AHPS' are visible. A navigation bar includes 'Home', 'News', 'Organization', and a search field. Below this, there are tabs for 'AHPS' and 'NWS HSA'. An 'Options' dropdown menu is open, showing a list of items: '- Pick HSA', '- Admin Gauges', '- Admin Rivers', '- Pick HSA', '- Preferences', and '- Logout'. The main content area shows a table with columns for 'City' and 'Abbrev', with one row containing 'Caribou, ME' and 'CAR'. A sidebar on the left contains links for 'Local forecast by City, St', 'CMS Category', 'About AHPS CMS', and 'Feedback/Questions'. The footer includes contact information for the US Dept of Commerce and various policy links.

Figure 8: Intra-Module Navigation via “Options” Dropdown Selection Box

Once users have selected a module to configure, in this case AHPS CMS, they can choose to navigate within the options associated with that area of the module. In this case, the user has not selected his/her (WFO/HSA CAR) so they only have the options that are associated with the AHPS CMS such as, Admin Rivers, Admin Gauges, Preferences and the HSA selection. However, once the WFO/HSA has been selected, more options will appear inside this dropdown selection menu. These will be items such as Gauges, Radar Links and other WFO/HSA AHPS configuration items. We will touch on the other Options menu items before going forward with configuration explanations.



FAQ/Help Page

The FAQ/Help page (**Figure 9**) will be used to answer frequently asked questions and provide additional support to users of this interface.

AHPS NWS HSA

Options: - Admin Gauges Go

FAQ

Q. What is AHPS CMS?

A. The application you're using is designed to replace editing ahps.dat and various PHP files with a web database. Beside reducing ahps.cgi downtime and easing AHPS data maintenance this opens up a variety of possibilities for future AHPS improvements.

Q. Where do I get help?

A. Email TOC.NWSTG@noaa.gov

AHPS 24/7 Support Contact Phone:
NWS Telecommunications Operations Center (TOC)
(301) 713-0902

Q. How do I upload gauge images to display on my hydrograph pages?

A. A new AHPS Photo Management Tool is available to handle all gauge images. [Please click here to read more.](#)

Q. What can I read to learn more?

A. [Documentation for AHPS CMS](#)

Figure 9: FAQ/Help Content



NWSLID Selection Page – Gauges Page

Once a user selects a HSA, in this case HSA CAR, the NWSLIDs for gauges managed by that particular HSA are listed in alphabetical order by NWSLID. This is the landing page after a HSA has been selected. This list is also downloadable via a link at the bottom of the gauge. See (**Figure 10**).

NWSLID	Location Name	Location Type
ALLM1	Allagash River above Allagash	River Stage/Flow Location
ATGM1	Frenchman Bay at Bar Harbor	River Stage/Flow Location
BBRM1	Big Black River near Depot Mountain	River Stage/Flow Location
BLAM1	Piscataquis River at Blanchard	River Stage/Flow Location
BPRM1	Penobscot River at Bangor	River Stage/Flow Location
CTGM1	Gulf of Maine at Cutler	River Stage/Flow Location
DICM1	St. John River at Dickey	River Stage/Flow Location
DOVM1	Piscataquis River at Dover-Foxcroft	River Stage/Flow Location
EDDM1	Penobscot River at Eddington	River Stage/Flow Location
FIHM1	Fish River at Fort Kent	River Stage/Flow Location
FTKM1	St. John River at Fort Kent	River Stage/Flow Location
GRNM1	Penobscot River above Grindstone	River Stage/Flow Location
MASM1	Aroostook River at Masardis	River Stage/Flow Location
MATM1	Mattawamkeag River at Mattawamkeag	River Stage/Flow Location
MFDM1	Piscataquis River at Medford	River Stage/Flow Location
NINM1	St. John River at Nine Mile Bridge	River Stage/Flow Location
PSBM1	Passamamaquoddy Bay at Eastport	River Stage/Flow Location
STFB3	St. Francis River near Connors	River Stage/Flow Location
TINB3	Aroostook River below Tinker Dam	River Stage/Flow Location
WENM1	Penobscot River at West Enfield	River Stage/Flow Location
WSHM1	Aroostook River at Washburn	River Stage/Flow Location

Figure 10: NWSLID Selection Page



Preferences Page

The Preferences Page (**Figure 11**) allows the user to control **Real-time, Daily Summary and Gauge Update** email notification settings. A Real-time email includes changes that are made throughout the day and are transmitted as changes are made. A Daily Summary email includes all AHPS CMS changes made for a 24-hour period and is transmitted once every 24 hours.

A gauge update email notification is an email/feature that sends out 2 types of email notifications:

Data Monitoring Email

- 1) The system will notify users that are associated with an HSA that has gauges that have not updated for more than 12 hours.

HSA Gauge Status Email - 12z

- 2) Around 12z a process runs to check the status of all HSAs' gauges; this process sends out a gauge status email that notifies users if their HSA has gauges that are not updating. If all gauges are updating correctly users will not receive this email.

The screenshot displays the National Weather Service (NWS) AHPS (Automated Hydrologic Prediction Service) interface. At the top, the NOAA logo and 'National Weather Service AHPS' are visible. The page is titled 'Security User Edit mike.pavese@noaa.gov'. Below this, the 'NWS HSA Email Options' section is shown, with three dropdown menus: 'Real-time' set to 'No', 'Daily Summary' set to 'No', and 'Gauge Update' set to '24 Hours'. An 'Update' button is located to the right of these options. The page also features a navigation menu with 'Home', 'News', and 'Organization' tabs, a search bar, and a 'Go' button. A sidebar on the left contains links for 'Local forecast by "City, St"', 'CMS Category', 'About AHPS CMS', and 'Feedback/Questions'. The footer includes the US Dept of Commerce, National Oceanic and Atmospheric Administration, and National Weather Service contact information, along with links for 'Disclaimer', 'Credits', 'Glossary', 'Privacy Policy', 'About Us', and 'Career Opportunities'.

Figure 11: Preferences Page



Admin Rivers Page

The Admin Rivers Page (**Figure 12**) allows users to add a new Creek, River, or Reservoir, etc to the AHPS CMS database. ****Important Note:** Please use the **"Browse By Name:"** feature to verify that the water body name desired is not already within the database prior to adding the new water body name. Additionally, this page allows the user to modify the spelling and delete water bodies from the database.

**** Please use [Delete](#), [Update](#) and [New](#) commands with Extreme Caution! Deletion Confirmation and Update Confirmation will be discussed on the following pages ****

The screenshot shows the 'Admin Rivers By Name - 'Q'' page. The header includes the NOAA logo, 'National Weather Service', and 'AHPS'. The navigation bar has links for Home, News, Organization, and a search bar. The main content area has tabs for 'AHPS' and 'NWS HSA'. Below the tabs, there's a search bar with 'Options: - Admin Rivers' and a 'Go' button. The title 'Admin Rivers By Name - 'Q'' is displayed. Underneath, there's a table of rivers with 'Update' and 'Delete' buttons for each. A 'New' button is also present. The footer contains contact information for the National Weather Service and links for Disclaimer, Credits, Glossary, Privacy Policy, About Us, and Career Opportunities.

Figure 12: Admin – Rivers Page

Deletion Confirmation

Once a user has decided to [Delete](#) an item in the AHPS CMS, a “Deletion Confirmation Page” will appear discussing the significances of this action. This allows the user to confirm that what they are deleting will not adversely affect other HSAs as well as their own office. See (**Figure 13**).

The screenshot shows the National Weather Service AHPS interface. The header includes the NOAA logo, the text "National Weather Service AHPS", and the URL "www.nws.noaa.gov". A navigation bar contains links for Home, News, Organization, and a search field. Below the navigation bar, there are tabs for "AHPS" and "NWS HSA". A dropdown menu is set to "Admin Gauges" with a "Go" button. The main content area is titled "'Quartzville Creek' Update Confirmation". It contains a disclaimer: "If changes on this page are outside your area of responsibility, please be aware that the change(s) you are about to make will likely impact other office's configuration settings. If you have questions, contact ahps.cms@noaa.gov before making changes to determine potential ramifications." Below this, it states "The following commands will be processed:" followed by a bulleted list: "• 'Quartzville Creek' will be deleted from the database" and "• This change will affect 1 HSA(s): PQR". A question "Are you sure you want to continue?" is followed by "Cancel" and "Confirm Update" buttons. The footer contains contact information for the US Dept of Commerce, National Oceanic and Atmospheric Administration, and National Weather Service, along with links for Disclaimer, Credits, Glossary, Privacy Policy, About Us, and Career Opportunities.

Figure 13: Deletion Confirmation Page



Update Confirmation

Once a user has decided to **Update** an “Admin” item in the AHPS CMS (an item that will not only effect the user’s HSA but also others), an Update Confirmation Page will appear discussing the significances of this action. This allows the user to confirm that what they are changing will not adversely affect other HSAs as well as their own office. See (**Figure 14**).

The screenshot shows the National Weather Service AHPS interface. The header includes the NOAA logo, 'National Weather Service AHPS', and the URL 'www.nws.noaa.gov'. A navigation bar contains 'Home', 'News', 'Organization', and a search field. Below the navigation bar, there are tabs for 'AHPS' and 'NWS HSA', and a dropdown menu for 'Options: - Admin Gauges'. The main content area is titled "'Quartzville Creek' Update Confirmation" and contains the following text:

If changes on this page are outside your area of responsibility, please be aware that the change(s) you are about to make will likely impact other office's configuration settings. If you have questions, contact ahps.cms@noaa.gov before making changes to determine potential ramifications.

The following commands will be processed:

- 'Quartzville Creek' will be deleted from the database
- This change will affect 1 HSA(s) : PQR

Are you sure you want to continue?

Buttons for 'Cancel' and 'Confirm Update' are visible.

The footer contains links for 'Disclaimer', 'Credits', 'Glossary', 'Privacy Policy', 'About Us', and 'Career Opportunities', along with the text 'US Dept of Commerce National Oceanic and Atmospheric Administration National Weather Service'.

Figure 14: Update/Approval Confirmation Page



Admin Gauges Page

The Admin Gages Page (**Figure 15**) allows users to add/delete gauge(s) for a particular HSA. In the drop down box labeled **HSA**, users will select the HSA they wish to add or delete gauges. If adding a new gauge, users must first select a HSA, then enter the gauge NWSLID within the text box labeled **NWSLID** and click the **New** button. See (**Figure 16**) below on next page.

The screenshot displays the 'Admin Gauges' page interface. At the top, there are two tabs: 'AHPS' and 'NWS HSA'. Below the tabs is a blue navigation bar containing the text 'Options: - Admin Gauges' and a 'Go' button. The main content area is titled 'Admin Gauges' and contains several form elements: a 'Location Type' dropdown menu with '-- none --' selected, an 'HSA' dropdown menu with '-- none --' selected, an empty 'NWS LID' text input field, and two buttons labeled 'New' and 'Delete'. Below this section is a 'Jump to Gauge' section, which includes an empty 'NWS LID' text input field and a button labeled 'Jump to Gauge Configuration'.

Figure 15: Admin Gauges Page (Example 1)



AHPS NWS HSA

Options: - Admin Gauges Go

Admin Gauges

Location Type: Precipitation Location

HSA: Caribou, ME (CAR)

NWS LID: TEST1

Commands: New Delete

Jump to Gauge

NWS LID: []

Commands: Jump to Gauge Configuration

Figure 16: Admin Gauges Page (Example 2)

Once the new gauge has been added it will take users to a new gauge configuration page for this location. A fully configured gauge data page is shown in (**Figures 18a,b,c**). If editing an existing gauge, enter the NWSLID of the gauge in text box labeled **NWS LID** under the **Jump to Gauge** section of the Admin Gauges Page. Then click the "Jump to Gauge Configuration" button to bring up the desired gauge for editing. The ending result should look similar to (**Figures 18a,b,c**).



Gauge Configuration Page

Once a user selects a HSA, in this case HSA (CAR) the NWSLIDs for gauges managed by the HSA are listed in alphabetical order by NWSLID. See (**Figure 17**).

AHPS
NWS HSA

Options: - Gauges ▼ Go

NWSLID	Location Name	Location Type
ALLM1	Allagash River above Allagash	River Stage/Flow Location
ATGM1	Frenchman Bay at Bar Harbor	River Stage/Flow Location
BBRM1	Big Black River near Depot Mountain	River Stage/Flow Location
BLAM1	Piscataquis River at Blanchard	River Stage/Flow Location
BPRM1	Penobscot River at Bangor	River Stage/Flow Location
CTGM1	Gulf of Maine at Cutler	River Stage/Flow Location
DICM1	St. John River at Dickey	River Stage/Flow Location
DOVM1	Piscataquis River at Dover-Foxcroft	River Stage/Flow Location
EDDM1	Penobscot River at Eddington	River Stage/Flow Location
FIHM1	Fish River at Fort Kent	River Stage/Flow Location
FTKM1	St. John River at Fort Kent	River Stage/Flow Location
GRNM1	Penobscot River above Grindstone	River Stage/Flow Location
MASM1	Aroostook River at Masardis	River Stage/Flow Location
MATM1	Mattawamkeag River at Mattawamkeag	River Stage/Flow Location
MFDM1	Piscataquis River at Medford	River Stage/Flow Location
NINM1	St. John River at Nine Mile Bridge	River Stage/Flow Location
PSBM1	Passamamaquoddy Bay at Eastport	River Stage/Flow Location
STFB3	St. Francis River near Connors	River Stage/Flow Location
TINB3	Aroostook River below Tinker Dam	River Stage/Flow Location
WENM1	Penobscot River at West Enfield	River Stage/Flow Location
WSHM1	Aroostook River at Washburn	River Stage/Flow Location

Figure 17: NWSLID Selection Page

Once a NWSLID is selected in (**Figure 16**), a gauge configuration page is displayed (**Figures 17a,b,c**). Which allows the user to input data or select configuration settings for the selected NWSLID.



CAR - Edit Gauge DOVM1

River Name [Gauge List](#)

Proximity

Location Name

State

County

FFG Zone

Adjacent State For RSS selection and display.

Time Zone

RFC

Water Resource Region

Action Stage

Flood Stage

Moderate Stage

Major Stage

Flood Category Type

Low Water Threshold feet

Hydrograph Disclaimer/Message 01

Hydrograph Disclaimer/Message 02

Forecast Reliability

Forecast Status

Probabilistic Site [Probabilistic Configuration](#)

Volume Exceedance Graph Available (for Entire Period)

Pool Exceedance Location

Probabilistic Start Date (YYYY-MM-DD)

Type of Historic Crests

Display Number of Historic Crests

Display Low Water Impacts

Display Number of

Figure 18a: Gauge Configuration Page (Image 1)



Display Number of Low Water Events

COE ID Not Defined

COE URL

USGSID (NRLDB) 01031500

Low Flow Display

Enter text or HTML here that you wish to appear as "Additional Information":

Display Unique Additional Information

Give Data Attribution

Attribution Wording Observations Courtesy of

Attribution URL

Attribution ALT Text (HydroGen Only)

Plot Location on Maps (This will affect both the HSA and national map.)

FIPS

FIPS Code

Commands

NWS Forecast Zone

Zone Code

Commands

Photo

Photos with no caption specified will not display on the hydrograph page.
If you would like to upload photos [click here](#).

Figure 18b: Gauge Configuration Page (Image 2)



Gauge Map Configuration (Google Maps)

Gauge Map Configuration

Use the plus and minus controls to set the zoom level of the map then press the **Update** button to save your changes.

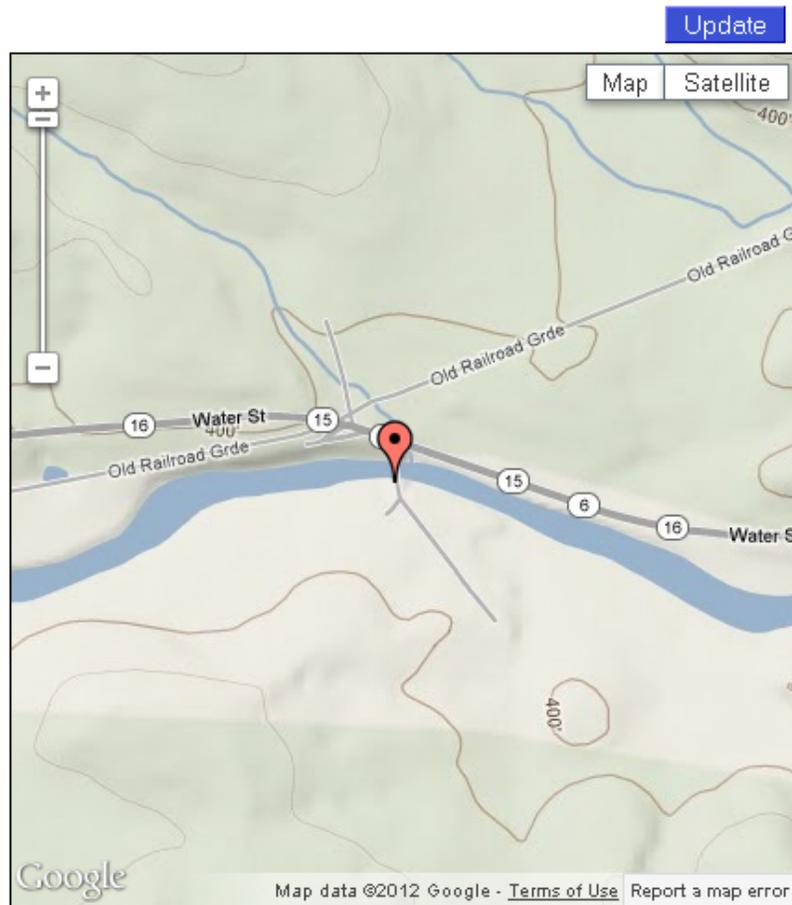


Figure 18c: Gauge Configuration Page (Image 3)

Users are provided with an adjustable zoom level Google Maps interface for the gauge location. Users simply need to click the + / - signs and click **Update** to set the appropriate level of zoom for the gauge map. The Google Map is always centered upon



the gauge. The gauge latitude and longitude coordinates are driven by AWIPS configuration.

Gauge Configuration Explanations

In this section we will explain what each configuration selection drives. Some items are simple and self-explanatory; others are more complex and direct users to additional pages to complete the configuration. We will cover those items in their own mini-segment(s).

Configuration Item	Remarks
River Name	The name of the water body the gauge should be associated with. NOTE: This field must be defined for the gauge to be displayed on the Google Maps and for hydrograph generation.
Proximity	<p>Dropdown selection box. Selectable items are above, at, below, near, and other.</p> <p>Special feature (other): If the desired proximity is a direction/distance (mileage) from a fixed location, select "other" in the dropdown box and then click on the  button towards the bottom of the page. This will bring up two additional items. One input box for an integer value for distance and a dropdown box for compass direction. Example for a gauge 10 miles North of the Location Name field:</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <input type="text" value="other"/> <input type="text" value="10"/> <input type="text" value="N Of"/> </div>
Location Name	Plain language name of the gauge location. This is the name the user wants displayed on the AHPS hydrograph page for this location.
State	Dropdown selection box.
County	Dropdown selection box. Auto-populates based on state selection.
FFG Zone	Dropdown selection box. Auto-populates Flash Flood Guidance values based on county selection.
Adjacent State	Choose the Adjacent State for RSS Selection and display.



Configuration Item	Remarks
Time Zone	Dropdown selection box. Select TZ for gauge location.
RFC	Dropdown selection box. Choose appropriate River Forecast Center for gauge.
Water Resource Region	Dropdown selection box. Choose appropriate Water Resource Region for gauge.
Action Stage/Flow	Stage in feet, volume flow (cfs), or enter zero (0) if undefined. This value is updated each day via the NRLDB database.
Flood Stage/Flow	Stage in feet, volume flow (cfs), or enter zero (0) if undefined. This value is updated each day via the NRLDB database.
Moderate Flood Stage/Flow	Stage in feet, volume flow (cfs), or enter zero (0) if undefined. This value is updated each day via the NRLDB database.
Major Flood Stage/Flow	Stage in feet, volume flow (cfs), or enter zero (0) if undefined. This value is updated each day via the NRLDB database.
Flood Category Type	Toggle between Flow and Stage types for the flood category.
Low Water Threshold	Input the Upper Limit for Low Water (options) Feet, KCFS or CFS . If defined, this value is represented on the hydrograph as a brown tint from the defined threshold and down. This value may be negative or zero (0). To disable, enter a blank value. NOTE: The units must match the observation data units of the hydrograph.
Hydrograph Disclaimer/Message 01	Dropdown box selection. If a disclaimer/ message is selected, it will display below the hydrograph for the selected location.
Hydrograph Disclaimer/Message 02	Dropdown box selection. If a disclaimer/ message is selected, it will display below the hydrograph for the selected location.
Forecast Reliability	Dropdown box selection. If a forecast reliability message is selected, it will display below the hydrograph for the selected location.
Volume Exceedance Graph Available	Dropdown selection box (Yes/No). This setting is used to add the volume exceedance icon to the hydrograph page for the entire period exceedance type. NOTE: This feature only displays when



Configuration Item	Remarks
	<p>a site has been selected as a Probabilistic Site. * If Volume Exceedance is set to "YES", then Probabilistic Site MUST be set to "YES". This probabilistic data type is not available for all locations. Contact your RFC if you question that your HSA uses this type of data.</p>
<p>Forecast Status</p>	<p>Dropdown selection box. Gives description of what type of forecast is available for gauge location. Item displays below the hydrograph for the selected location.</p> <ol style="list-style-type: none"> 1. No routine – Graphical forecasts are not available for {Location Name}. During times of high water, forecast crest information can be found in the <u>text products</u>. 2. Navigation Season - Forecasts {Location Name} are issued routinely during the navigation season, and as needed at other times of the year. 3. Summer-only - Forecasts for {Location Name} are issued routinely during the warm season, and as needed at other times of the year. 4. Year-round - Forecasts for {Location Name} are issued routinely year-round. 5. High Water - Forecasts for the {Location Name} are issued as needed during times of high water, but are not routinely available. 6. Data Point - Forecasts are not available for {Location Name}. Only observed stages are available for this point.
<p>Probabilistic Site</p>	<p>Dropdown selection box (Yes/No). This feature turns on the probabilistic icons on the hydrograph page for the selected gauge. Also, provides the ability to select what type of Probabilistic Data to display.</p>



Pool Exceedance Location	Dropdown selection box (Yes/No). When set to "Yes" , the location displays exceedance values as if it were a reservoir instead of a stream/river. NOTE: This feature only displays when a site has been selected as a Probabilistic Site.
Type of Historic Crests	Dropdown selection box. "Stage (feet)" or "Flow (cfs)". Defines what units Historical Crests are displayed in.
Display Number of Historic Crests	Dropdown selection box. Number of historical crest to be displayed on hydrograph page. (0-10)
Display Low Water Impacts	Yes/No dropdown. Toggle for the Display of Low Water Impacts (Yes or No). When updated, a button labeled "Edit Impacts" will display.
Display Number of Low Water Events	Dropdown selection box. Number of historical low water events to be displayed on hydrograph page. (0-5)
COE ID	Corps of Engineers (COE) gauge location ID. This value is updated each day via the NRLDB database.
COE URL	The Corps of Engineers (COE) URL for the selected gauge location. This will link users to that gauge page.
USGSID (Populated via NRLDB Database)	U.S. Geological Survey (USGS) gauge location ID. If available an attribution statement for the USGS will be displayed above the hydrograph. This value is updated each day via the NRLDB database.
Display Unique Additional Data	Enter text or HTML here that you wish to appear as "Additional Information" below the impact statement on the hydrograph page. This item is configurable per gauge location.
Give Data Attribution	Dropdown selection box, it is a Yes/No selectable item.
Attribution Wording	This field is used for the organization name(s) that attribution should be given to. It is limited to 32 characters due to space constraints on the HydroGen hydrograph image. The AHPS code will prefix the phrase "Observations Courtesy of" prior to organization attribution wording input. This is a mandatory item if "Give Data Attribution" is set to "Yes".
Attribution URL	This is the URL the attribution wording should point to. If a website that is not a .gov or .mil domain is used, users will be directed to a "You



Attribution URL	This is the URL the attribution wording should point to. If a website that is not a .gov or .mil domain is used, users will be directed to a "You are now leaving NWS" jump page before proceeding to the external website. The "Attribution URL" is an optional item.
Attribution ALT Text (HydroGen Only)	This is an optional ALT tag text input field. If not defined, the AHPS code will use the wording from the "Attribution Wording" field for the ALT tag.
Plot location on Maps	Yes/No dropdown. If set to "NO", this control will cause the gauge marker to be removed from all



Probabilistic Configuration

Once users click the “Probabilistic Configuration” button they will be directed to a page where they can select what type of probabilistic information they would or would not like to include on their gauge pages; these include **Display Stage**, **Display Flow** and **Display Volume**. Users will notice in **Figure 19** below there are a series of selection boxes that can be set in any possible combination based upon the user’s preference or situation. When users are finished with their configuration changes they simply need to click [Update](#) to apply the changes. Users can then chose to either go back to the Gauge Edit Page by clicking [Return to Gauge Editor](#) or chose to navigate somewhere else within the AHPS CMS using the “Options” dropdown menu.

CAR - Probabilistic Configuration for DOVM1

Display Stage	<input type="text" value="Yes"/>
Display Flow	<input type="text" value="Yes"/>
Display Volume	<input type="text" value="Yes"/>
	Update
Return to Gauge Editor	

Figure 19: Probabilistic Site Configuration Options



Low Water Impacts

AHPS

Options: - Admin Gauges Go

Low Water Impacts for DOVM1

The new impact statement was successfully added.

Low Water Value/Range	Impact Text	Commands
5.0 kcfs	Flow affect text goes here.	Update Delete Move Down
5.2 kcfs	Additional text goes here.	Update Delete Move Up
		Add

Return to Gauge Editor

Figure 20: Low Water Impacts Edit Page

(**Figure 20**) Shows the “Low Water Impacts” edit page. When users select “Yes” to display Low Water Impacts within the dropdown selection box and **Update** is clicked, they will be presented with a button **Edit Impacts**. Once users click this button, they will be directed to the page where they can add different Low Water Values and the Impact text that goes along with that value or range. The can be sorted manually via the buttons located to the right of the impact text box. These items can be deleted and/or updated after the text has been edited on existing values. When users have completed their edits on this page they simply need to click **Return to Gauge Editor** to return back to the “Gauge Edit” page.



Data Attribution

The AHPS CMS interface has been modified to allow NWS personnel to customize the "Observations Courtesy of" attribution organization wording, URL, and ALT tag text on the hydrograph page for both HydroGen and Rivdat type hydrographs. A new configuration item called "**Give Data Attribution**" has been added to the gauge configuration page with a default setting of "No". To ensure that current attribution to US Geological Survey (USGS) will not be lost once this new feature goes into production, any gauge with a USGS ID defined will have the new CMS fields populated with USGS attribution settings. The selection boxes that are used to change this can be seen below in **(Figure 21)**.

Give Data Attribution	<input type="text" value="Yes"/>
Attribution Wording	Observations Courtesy of <input type="text" value="US Geological Survey"/>
Attribution URL	<input type="text" value="http://water.usgs.gov/"/>
Attribution ALT Text	<input type="text" value="USGS--Water Resources of the United States"/> (HydroGen Only)

Figure 21: Data Attribution Settings

Note: This information will only be displayed when "Yes" is selected for the option "Give Data Attribution".

Once changes are made to configuration data, users will need to click on for the section they have modified. This will save the modification to the configuration database.



Edit Up/Down Stream

This page allows users to enter into the AHPS CMS the relationship a particular gauge has with other gauges around it. With this page users can set both a primary and a secondary gauge that is either up or down stream in relation to this gauge. If a gauge has either two up or down stream gauges a new fork arrow will be visible on the Hydrograph page.

CAR - Up/Downstream Locations for DOVM1

This page may take some time to load. Please be patient.

Primary Upstream Location [Gauge List](#)
Primary locations setup to point back down to this gauge:
Piscataquis River at Blanchard (BLAM1)

Primary Downstream Location [Gauge List](#)
Primary locations setup to point back up to this gauge:
Piscataquis River at Medford (MFDM1)

Secondary Upstream Location
Secondary locations setup to point back down to this gauge: **none**

Secondary Downstream Location
Secondary locations setup to point back up to this gauge: **none**

[Update](#)

[Return to Gauge Editor](#)

Figure 22: Edit Up/Down Stream Gauge Options

The "Gauge List" button will show the gauge you have selected, along with the gauges found in order above and below it, starting upstream and working its way down.



HydroGen (Gauge Configuration Page)

When users click on the "Edit HydroGen Data" from the "Edit Gauge" interface, they will be taken to the following page:

CAR - Edit HydroGen Data for DOVM1

Sensor In Service

Override HydroGen Gauge Name

HydroGen Days Ahead

HydroGen Days Back

Show Flow Y-Axis

Flow Units

Show Forecast Trace

Show Observed Trace

Use Computed Rating

Suppress Plotting of Observation Data

Suppress Plotting of Forecast Data

Maximum Forecast Age (Hours)

PEDTS Code

PEDTS Priority
 HGIRG 1

Figure 23: HydroGen Configuration

HydroGen is suite of software programs that collect data from a database and prepare hydrograph graphics for the web. The items in **Figure 23** are used to configure this software suite.

Configuration Item	Remarks
Sensor In Service	Yes/No dropdown. If set to "No", it will not colorize the map



	icons for this location based upon OBS or Forecast data. Will only display a "black" icon.
Override HydroGen Gauge Name	Yes/No dropdown. If set to "Yes", a text input will display once the page has been saved. Users can override the name of the gauge as it appears in the Hydrograph images.
HydroGen Days Ahead	Dropdown menu with values from 0 days through 14 days and All (days) available . Will display selected days of forecast data if available. NOTE: This value drives the forecast slider visible on the State, RFC, WRR and HSA forecast pages as well as truncating the visible data on the Hydrographs, Tabular Data, XML, and RSS feeds to all display data in a consistent way.
HydroGen Days Back	Dropdown menu with values from 0 days through 10 days . Will display selected amount of days of observed data if available. NOTE: This value truncates the visible observed data on the Hydrographs, Tabular Data, XML, and RSS feeds to all display data in a consistent way.
Show Right-hand Y-Axis Label	Yes/No dropdown. If set to "Yes", show correlating secondary value label on the right-hand side of the hydrographs.
Flow Units	Dropdown menu. Select whether to display flow in CFS or KCFS.
Show Forecast Trace	Yes/No dropdown. Connect the plotted forecast data points with a line.
Show Observed Trace	Yes/No dropdown. Connect the plotted observation data points with a line.
Use Computed Rating	Yes/No dropdown.
Suppress Plotting of Observation Data	Yes/No dropdown. Do not plot observed data on the hydrograph. NOTE: If this is set to "YES" the gauge will not be plotted on any of the observed data maps (national, WRR, State, RFC or HSA).
Suppress Plotting of Forecast Data	Yes/No dropdown. Do not plot forecasted data on the hydrograph. NOTE: If this is set to "YES" the gauge will not be plotted on any of the forecasted data maps (national, WRR, State, RFC or HSA).
Maximum Forecast Age (Hours)	Number input field. Maximum hours between issuances of forecast products. If this threshold is exceeded, the forecast data will be deemed "old" and display as such.

PEDTS Data Failover

Users can select multiple PEDTS types (if available) and prioritize these in how it is used to display the data within the Hydrograph. If data is not received for the PEDTS currently in use within the set "Hours" value, it will fail over to the next priority PEDTS. Should a failover happen, an e-mail is sent to the gauge administrators with instructions on how to fix it.



PEDTS	Priority	Hours			
HGIRG	1	<input type="text" value="12"/>	<input type="button" value="Update"/>	<input type="button" value="Delete"/>	<input type="button" value="Move Down"/>
HGIRP	2	<input type="text" value="24"/>	<input type="button" value="Update"/>	<input type="button" value="Delete"/>	<input type="button" value="Move Up"/>

Figure 24: PEDTS Failover Configuration

The NRLDB (National River Location Database) Data for a gauge is also displayed on the Edit HydroGen Page. These values are updated daily by the NRLDB and cannot be edited by CMS users or admin.

Hydrologic data (such as forecasts, latitude, longitude, and flood category heights) is collected from NWS-serviced Weather Forecast Offices and stored in one centralized location – the NRLDB – to better facilitate and quantify benefits provided by NWS whenever such information is needed for determining how to distribute support or when further research guidance is needed.

Terms and abbreviations used within the NRLDB Section:

HG Station: HydroGen Station – Heading for cluster of data. Settings established for the station within the NRLDB.

PE: Physical Element – Abbreviation for physical metrics by which data can be established (water volume depth, gate openings total, et al.)

TS: Type Source – SHEF type sources.

FCSTTS: Forecast Type Source

Ratings: A metric of how much water is being discharged (discharge) in Cubic Feet per Second (CFS) when gauges measure a specific water depth (Stage (feet)).

Flood categories: Stage depths at each category of flood, from “Action” through “Major” levels

Crests: Historical records of greatest flow and depth river crests for location.

Low Water Records: Historical records for lowest values reported for river beds.

Flood Impacts: How flooding will affect the surrounding land at various stage heights or flow values.

Location: General information for the site, including latitude, longitude, US Geological Survey ID number, Army Corps of Engineers ID number, Horizontal datum, Zero datum, and River Forecast Center in which the site is located.



Edit Datums

Users have the ability to input reference datums for each gauge. The Edit Datums page has the following options: Vertical Datum, Horizontal Datum, and Datum Note.

Vertical Datum - Toggle that can be either none, North American Vertical Datum of 1988 (NAVD88) or National Geodetic Vertical Datum of 1929 (NGVD29).

Horizontal Datum – Toggle that can select North American Datum of 1983 (NAD83)/World Geodetic System of 1984 (WGS84), North American Datum of 1927 (NAD27), Old Hawaiian Datum of 1913 (OHD1913), Puerto Rico & the U.S. Virgin Islands (PRVI), or Other.

Datum Note – Dropdown box with different notes to be displayed below the hydrograph.

There is also a table that allows you input the NWS stage as well as the vertical datum elevation information.

CAR - Edit Gauge DOVM1

Vertical Datum

Horizontal Datum

Datum Note

River Stage Reference Frame	Gauge Height	Flood Stage	Uses
NWS stage	<input type="text" value="0"/>	11 ft	
Vertical Datum	Elevation (gauge height = 0)	Elevation (gauge height = flood stage)	Elevation information source
NAVD88	<input type="text"/>	<input type="text"/>	<input type="text"/>
NGVD29	<input type="text"/>	<input type="text"/>	
MSL	<input type="text"/>	<input type="text"/>	
Other	<input type="text"/>	<input type="text"/>	

[Update](#)

[Return to Gauge Editor](#)



Figure 25: Edit Datums Gauge Options



FIPS

The FIPS Codes shown here are 5-digit codes that are assigned to each county. The first two digits are for the State and the last three identify the County, or county equivalent. So, each State has its own 2-digit number, and each County within the state has its own 3-digit number, which are combined into a 5-digit number to uniquely identify every US County. For Example: Georgia's state number is 13, and Bryan county, GA is 029, so Bryan county's FIPS code is 13029. FIPS Codes are easier to handle in information systems than are county and state names. Gauges may be associated with more than one FIPS code.

For more technical details:

Federal Information Processing Standards Publications (FIPS PUBS) are issued by the National Institute of Standards and Technology (NIST) after approval by the Secretary of Commerce pursuant to Section 111 (d) of the Federal Property and Administrative Services Act of 1949 as amended by the Computer Security Act of 1987, Public Law 100-235.

Federal Information Processing Standard (FIPS) 6-4, *Counties and Equivalent Entities of the U.S., Its Possessions, and Associated Areas -- 90 Aug 31*, provides the names and codes that represent the counties and other entities treated as equivalent legal and/or statistical subdivisions of the 50 States, the District of Columbia, and the possessions and freely associated areas of the United States. Counties are considered to be the "first-order subdivisions" of each State and statistically equivalent entity, regardless of their local designations (county, parish, borough, etc.).

For a list of FIPS codes, go to

http://www.nws.noaa.gov/mirs/public/prods/maps/cnty_fips_list.htm

FIPS

FIPS Code

MEC021

Commands

Update

Delete

New

Figure 26: NWSCMS interface options for editing a gauge's FIPS settings



NWS Forecast Zone

NWS Forecast Zones are areas between weather breakpoints – locations used to define and specify endpoints of a region as discussed by meteorologists. The NWS Forecast Zones are combinations of specific latitude and longitude coordinates used in conjunction with geographical features, such as mountain ridges or basins. Gauges may be associated with more than one Forecast Zone.

Forecast Zone codes are 5 alphanumeric characters. The first two alpha characters are the state postal abbreviation in which the zone is located. The three following numbers correlate to the particular zone's relative location within its state, starting in the northwestern corner, going south until it hits the state border, then starting again in the northern half east of the first zones.

For a list of NWS Forecast Zone codes, go to <http://www.nws.noaa.gov/mirs/public/prods/reports/pfzone.htm>

NWS Forecast Zone

Zone Code	Commands
<input type="text" value="MEZ010"/>	<input type="button" value="Update"/> <input type="button" value="Delete"/>
<input type="text"/>	<input type="button" value="New"/>

Figure 27: NWSCMS interface options for editing a gauge's Forecast Zone



Gauge Photo Management

Photos for gauge sites will be uploaded and handled via special site hosted on Eastern Region's Intranet. A link will be provided within the AHPS CMS interface to connect to this site. Users can connect to the tool by clicking the link "click here" highlighted below in red. Once a location has photos uploaded, users can use this interface to edit the captions for the photographs and move them up or down in priority.

Photo

Photos with no caption specified will not display on the hydrograph page.
If you would like to upload photos [click here](#).



Fish River above Fort Kent

Edit

Move Down



Fish River on 4/30/2008 flooded at 13.8 feet

Edit

Move Up

Figure 28: Gauge Photo Management Interface Link

[Back To Gauge](#)



Caption:

Fish River above Fort Kent

Delete

Update

Figure 28a: Gauge Photo Editor Tool

Once photos for gauge sites have been uploaded via the ER hosted tool, users can edit the caption information by clicking the [Edit](#) button located out to the right of the photo. Once on the page pictured above in **Figure 28a**, users can edit the photos caption or delete the photo outright. Once users have finished the needed updates to the caption they will need to click "Update" to complete the changes. **See Appendix-C for full documentation.**



Radar Links

With this release of the AHPS CMS users now have the ability to link to multiple radar sites. To do this, users will select Radar Links from the CMS Dropdown Menu. Once users have selected this option they will see a page similar to **Figure 29a**. Users can link to as many radar sites as they would like, users can click the “New” button and an entry will appear that can be filled in with the new link’s information. Once users have completed this they can then view the new radar links on the Blue Left-hand Navigation side of the AHPS page. (**Figure 29b**). Links can also be updated or deleted as well.

URL	Link Text	Commands
<input type="text" value="http://radar.weather.gov/radar.php?rid=cbw"/>	<input type="text" value="Radar"/>	1 <input type="button" value="Update"/> <input type="button" value="Delete"/> <input type="button" value="Edit"/>
<input type="text"/>	<input type="text"/>	<input type="button" value="New"/>

US Dept of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
1325 East West Highway
Silver Spring, MD 20910

Disclaimer
Credits
Glossary

Privacy Policy
About Us
Career Opportunities

Figure 29a: Radar Links



Figure 29b: Radar Links in Action



Other Information

Users have the ability to input custom entries to the Other Information page. To do this, users will select Other Info from the CMS Dropdown menu. ****Note in order for the information to be seen, the "Display Other Information" toggle needs to be set to "Yes" on the HSA configuration page.** Once loaded, users will be presented with a page similar to the one below (**Figure 30**). Here users can input new information, delete or update current information. First users will create the "Category". Update, Delete, and Edit options will appear next to the item. If edit is clicked, users will be taken to a page where they can input the links for this category. Once the information is added and Update is clicked, it can then be viewed on the AHPS page by clicking on the Other Information tab.

AHPS NWS HSA

Options: - Other Info Go

Other Information Categories for CAR

The category was successfully added.

Name	Display Order	Commands
NASA	1	Update Delete Edit
	2	Add

AHPS NWS HSA

Options: - Admin Gauges Go

NASA Editor

URL	Link Text	Display Order	Commands
http://www.nasa.gov	NASA	1	Add

Please remember to start all external links with http://. Also, you no longer need to include the WFO exit page http://water.weather.gov/ahps2/nwsexit.php?url= link. Simply include the URL and the site will dynamically add the jump-page redirection information.

Edit Other Links



Weather Forecast Office Albany, NY



NASA

- NASA

Figure 30: Other Information Page Editor

Dropdown Webpage Navigation Page

The Dropdown Navigation Page (**Figure 31**) allows users to manage the name and order of the water body(s) listed in the dropdown list below the HSA map and hydrographs AHPS web pages. Click on **Edit** to associate a river(s) with the navigation name. If more than one water body is added under a navigation name, the dropdown box on the AHPS web page will automatically add the words (and Tributaries) to the navigation name. Water bodies can be consolidated into groups of water bodies under one navigation listing. This can help reduce the number of dropdown boxes to the right of the HSA map and hydrographs and improve the usability of AHPS HSA navigation. See (**Figure 32**).



AHPS

NWS HSA

Options: - Dropdown Navigation

CAR - Webpage Dropdown Navigation

This page allows users to manage the name and order of rivers listed in the dropdown list below the HSA map and hydrographs. Click on the edit button to associate a river(s) with the navigation name. If more than one water body is added under a navigation name the dropdown box on the AHPS web page will automatically add the words (and Tributaries) to the navigation name.

Notice: This page is only for adding new rivers. To configure them, [Click here](#).

Navigation Dropdown Name	Display Order	Commands
<input type="text" value="St. John River"/>	<input type="text" value="1"/> <input type="button" value="v"/>	<input type="button" value="Update"/> <input type="button" value="Delete"/> <input type="button" value="Edit"/>
<input type="text" value="Big Black River"/>	<input type="text" value="2"/> <input type="button" value="v"/>	<input type="button" value="Update"/> <input type="button" value="Delete"/> <input type="button" value="Edit"/>
<input type="text" value="Allagash River"/>	<input type="text" value="3"/> <input type="button" value="v"/>	<input type="button" value="Update"/> <input type="button" value="Delete"/> <input type="button" value="Edit"/>
<input type="text" value="Fish River"/>	<input type="text" value="4"/> <input type="button" value="v"/>	<input type="button" value="Update"/> <input type="button" value="Delete"/> <input type="button" value="Edit"/>
<input type="text" value="Aroostook River"/>	<input type="text" value="5"/> <input type="button" value="v"/>	<input type="button" value="Update"/> <input type="button" value="Delete"/> <input type="button" value="Edit"/>
<input type="text" value="Penobscot River"/>	<input type="text" value="6"/> <input type="button" value="v"/>	<input type="button" value="Update"/> <input type="button" value="Delete"/> <input type="button" value="Edit"/>
<input type="text" value="Mattawamkeag River"/>	<input type="text" value="7"/> <input type="button" value="v"/>	<input type="button" value="Update"/> <input type="button" value="Delete"/> <input type="button" value="Edit"/>
<input type="text" value="Piscataquis River"/>	<input type="text" value="8"/> <input type="button" value="v"/>	<input type="button" value="Update"/> <input type="button" value="Delete"/> <input type="button" value="Edit"/>
<input type="text" value="Tide Gauges"/>	<input type="text" value="9"/> <input type="button" value="v"/>	<input type="button" value="Update"/> <input type="button" value="Delete"/> <input type="button" value="Edit"/>
<input type="text"/>		<input type="button" value="New"/>



Weather Forecast Office Albany, NY

River Observations
River Forecasts
Precipitation
Download

399 total gauges
0 gauges in flood
Print this map
Permalink
BOOKMARK

Reset View
Map
Satellite

Create zoom box

100 km
50 mi

Map data ©2012 Google - Terms of Use Report a map error

Hydrograph Available
Probability and Hydrograph Available

Major Flooding

Moderate Flooding

Minor Flooding

Near Flood Stage

No Flooding

Observation More Than 24 Hours Old

Out of Service

Last map update:
 10/31/2012 at
 12:43:05 am EDT
 10/31/2012
 04:43:05 UTC

Disclaimer

River Menus
Collapse

Housatonic River	Battenkill	Wappingers Creek
Tenmile River	Hoosic River (and Tributaries)	Mettawee River
Moose River	Mohawk River	West River
Indian River	West Canada Creek	Williams River
Schroon River	Schoharie Creek	Saxtons River
Hudson River	Esopus Creek	Beaver River
Sacandaga River	Rondout Creek	

Figure 32: ALY AHPS HSA Page (River Menu Dropdown)



HSA (XXX) AHPS Specific Page

HSA webpage configuration items are edited under the NWS HSA tab. AHPS-specific HSA items, such as AHPS Webmaster question email configuration and additional hydrologic resource links, are edited on a more condensed version of the previous AHPS HSA page. It can be accessed via the "Options" dropdown navigation box [**HSA (XXX)**]. A sample of this page can be seen below:

AHPS NWS HSA

Options: - HSA (CAR) Go

CAR - HSA Main

Precip. URL

QPF URL

Display "Other Information" Tab

Region ER (Eastern)

Plain text or HTML formatted text goes here.

Display Unique HSA Level Data

Additional Edit Options

Figure 33: AHPS Specific HSA page (image 1)



Additional Resource Links

Link Text	URL	Sort Order	Command
Northeast River Forecast	http://www.erh.noaa.gov/nerfc/	1	Update Delete
Snow Information	http://www.nohrsc.noaa.gov/	2	Update Delete
Maine Cooperative Snow	http://www.state.me.us/mema/weathr	3	Update Delete
Ice Jam Database	http://www.crrel.usace.army.mil/ierd	4	Update Delete
Maine.gov Flood Safety	http://www.maine.gov/mema/prepare	5	Update Delete
Ensemble River Forecasts	http://www.erh.noaa.gov/mmefs/inde	6	Update Delete
			New

Hydrological Resource Links

Link Text	URL	Sort Order	Command
U.S. Drought Monitor	http://www.drought.unl.edu/dm/moni	1	Update Delete
Penobscot Flow Data	http://glha.brascanpower.com/Penob	2	Update Delete
Lower St. John River Wat	http://www.gnb.ca/public/Riverwatch	3	Update Delete
St. John River Society	http://www.stjohnriver.org/	4	Update Delete
The Penobscot River Rest	http://www.penobscotriver.org/	5	Update Delete
Maine Rivers	http://www.mainerivers.org/	6	Update Delete
Inundation Mapping Locat	/ahps/inundation.php	7	Update Delete
			New

Figure 34: AHPS Specific HSA Page (image 2)

Configuration Item	Remarks
Precip. URL	This URL is linked to the Past Precipitation link under Hydrologic Resources on the HSA page.
QPF URL	This URL is linked to the Forecast Precipitation link under Hydrologic Resources on the HSA page.
Display "Other Information" Tab	This toggle is for the "Other Information" Tab on the HSA page



Configuration Item	Remarks
Region	NWS Region. This value is automatically assigned when creating the new gauge. It is based on the gauge site's geographical location and places it within one of six regions: Eastern , Central , Southern , Western , Alaskan and Pacific .
Display Unique HSA Level Data	This input box adds a "Unique Local Data" tab to the bottom of the HSA main page.
Additional Resource Links	Additional resource links can be added via this input. Input requires the link text and URL. The "new" button must be clicked after input has been entered. If a link text or URL has been modified, the "update" button should be used to save the data to the configuration database.
Hydrological Resource Links	Hydrological resource links can be added via this input. Input requires the link text and URL. The "new" button must be clicked after input has been entered. If a link text or URL has been modified, the "update" button should be used to save the data to the configuration database.
Ask Questions / Webmaster Address(es)	Email address(es) listed in this section will be linked to in the footer of AHPS web pages.
Non-Standard Text Products	This feature allows HSA(s) to add additional NWS products under the Text Product page link. This feature will allow nonstandard AHPS products to be added. Input for the field is the three-letter identifier of the product.



Appendix A – NWS HSA Module

HSA Configuration Module

When a user selects the module NWS HSA, they are directed to a page that will allow them to select either one or multiple HSAs depending upon their access configuration. Usually standard users will only have access to one HSA. Once a user selects a HSA, they are directed to a HSA Configuration Page, see (***Figures A-1 and A-2***)

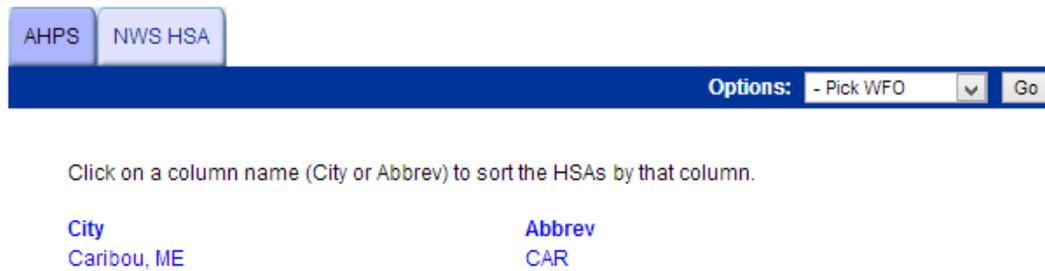


Figure A-1: HSA Selection



Clicking on the HSA link will take you to this interface:

AHPS NWS HSA

Options: - HSA (ALY) Go

ALY - HSA Main

HSA City Name

State

Postal Street Address

Postal City Name

Zip Code

Public Phone

Webmaster

Time Zone

Homepage Link URL (Header)

Ask Questions / Webmaster Address(es)

Email Address	Addressing Type	Command
<input type="text" value="Alywebmaster@noaa.gov"/>	To: <input type="text"/>	<input type="button" value="Update"/> <input type="button" value="Delete"/>
<input type="text"/>	To: <input type="text"/>	<input type="button" value="New"/>

Figure A-2: NWS HSA Configuration Page



Configuration Item	Remarks
HSA City Name	The official HSA name
State	Dropdown selection box. State in which HSA is located.
Postal Street Address	Mailing address street address of the HSA. This information is used in the footer of each HSA AHPS page.
Postal City Name	Mailing address city name of the HSA. This information is used in the footer of each HSA AHPS page.
Zip Code	Mailing address zip code of the HSA. This information is used in the footer of each HSA AHPS page.
Public Phone	Public phone number of HSA.
Webmaster	Webmaster point of contact information
Time Zone	Dropdown selection box to select time zone
Webpage Title	Title of HSA Webpage
Home Link URL	URL of the HSA Homepage or HSA AHPS Page
Ask Questions / Webmaster Address(es)	Email address(es) listed in this section will be linked to in the footer of NWS HSA Home CMS Driven Web pages.

Once changes are made to configuration data, the user will need to click on the [Update](#) button for the section they have modified. This will save the modification to the configuration database.

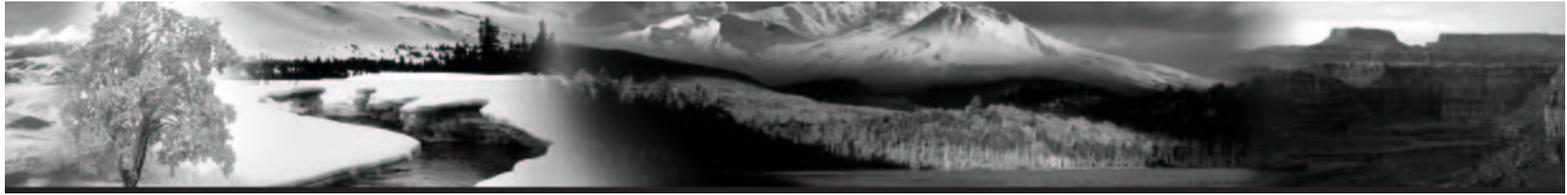


Preferences Page

The Preferences Page **Figure A-5** allows the user to control **Daily Summary** and **Real-time** email notification settings. A **Daily Summary email** includes all NWS HSA CMS changes made for a 24-hour period and is transmitted once every 24 hours. A **Real-time email** includes changes that are made throughout the day and are transmitted as changes are made. The end user will only receive emails if changes have been made to a NWS HSA Web page that they have been associated with in their access configuration.

The screenshot shows the National Weather Service (NWS) AHPS (Automated Home Page System) interface. At the top, there is a blue header with the NOAA logo on the left, the text 'National Weather Service AHPS' in the center, and the URL 'www.nws.noaa.gov' on the right. Below the header is a navigation bar with links for 'Home', 'News', and 'Organization', along with a search bar and radio buttons for 'NWS' and 'All NOAA'. The main content area is titled 'Security User Edit mike.pavese@noaa.gov'. It features a 'Local forecast by "City, St"' section with a search box. Below that is a 'CMS Category' section with links for 'AHPS', 'NWS HSA', and 'Logout'. The 'NWS HSA Email Options' section contains three dropdown menus: 'Real-time' (set to 'No'), 'Daily Summary' (set to 'No'), and 'Gauge Update' (set to '24 Hours'). An 'Update' button is located to the right of these options. The footer contains contact information for the US Dept of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, 1325 East West Highway, Silver Spring, MD 20910. It also includes links for 'Disclaimer', 'Credits', 'Glossary', 'Privacy Policy', 'About Us', and 'Career Opportunities'. At the bottom, it states 'Web master's email: nws.cms@noaa.gov' and 'prefs.php last modified at Fri Jan 25 0:48:27 EDT 2013'.

Figure A-5: Preferences Page



Appendix B – Map Layer(s) Editor

Map Layers Editing has been removed with the introduction of Google Mapping.



Appendix C – Gauge Photo Upload Tool



The National Weather Service



Guide for AHPS Gauge Photo Tool

Version 1.2

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Background

The AHPS Gauge Photo Upload Tool was designed to allow NWS AHPS users to upload and edit AHPS Gauge Photo Information within a uniform interface for all Regions. This tool eliminates the need to store gauge photos in a directory within the Regional Systems and prevents errant file naming from hindering the display of the images.

The tool can be accessed at:

https://collaborate.werh.noaa.gov/ahps/photo_upload/index.php

Gauge Photo Upload Tool

Please be aware that once you have completed the upload process there will be a delay of up to 20 minutes before your photos will be available within the CMS interface.

The username is your full NOAA email address

NOAA Email Password

Figure 1: AHPS Gauge Photo Tool Login page



Functionality

Interface

The AHPS Gauge Photo Tool interface requires 5 steps to be completed to ensure a successful upload:

Login

HSA Selection

NWSLI Selection

Image File Browse/Preview

Upload of File

Add/Edit Photo Caption Information (AHPS CMS)

Login

Users will notice within the AHPS CMS that the usual photo management area has been replaced with a link to the new AHPS Photo Management Tool. Users can click the “click here” to be directed to the tool.

(https://collaborate.werh.noaa.gov/ahps/photo_upload/index.php)

Photo

Photos with no caption specified will not display on the hydrograph page.
If you would like to upload photos [click here](#).

Figure 2: AHPS CMS Link Area



Once users have clicked the link they will be directed to the server in Eastern Region that hosts the tool. Depending on whether or not users have been to this server/tool before and how their machine handles cookies, users may be prompted with a login as shown in **Figure 3**.

*****Please Note: The login to this server should be in the format of `firstname.lastname` and DOES NOT need to include `@noaa.gov`. Whereas the Photo Upload Tool login that follows this login requires the full email address format.**

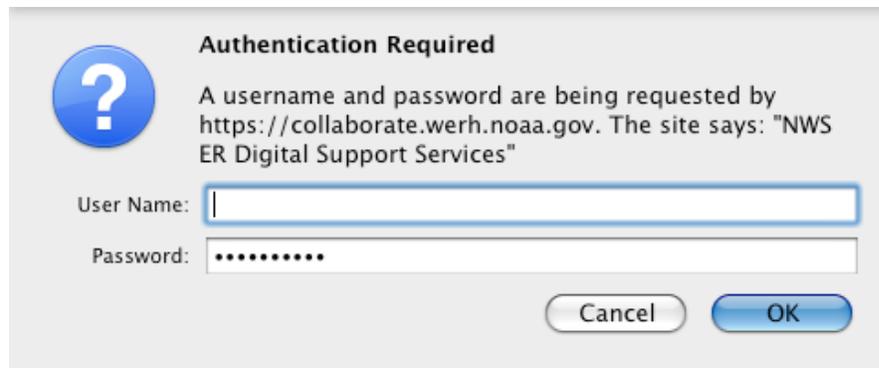


Figure 3: ER Digital Support Services Server Login

The login page of the AHPS Photo Management Tool as seen below. Users will need to login using the same login that they use with the AHPS CMS (**full** NOAA email address e.g.. john.doe@noaa.gov).

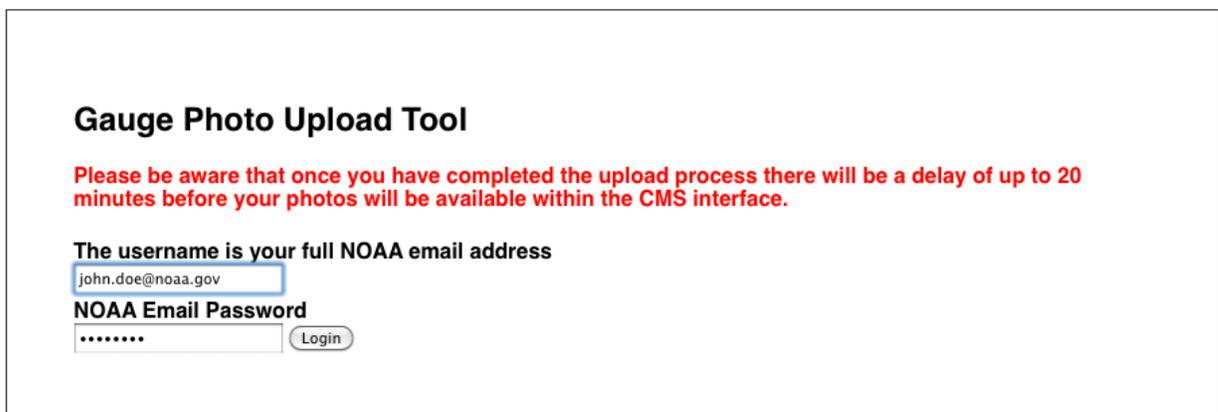


Figure 4: Login Screen



HSA Selection

After users have logged in they will be directed to a page that will display the username and a dropdown selection menu that will contain the WFO/HSA that the user has access to. Next, the user will need to select the WFO/HSA that the desired sensor is associated with from the menu.

Gauge Photo Upload Tool

Please be aware that once you have completed the upload process there will be a delay of up to 20 minutes before your photos will be available within the CMS interface.

Logged In As: john.doe@noaa.gov - [Log Out](#)

NWSLID

Select A NWSLID Choose

Figure 5: Successful Login Page

Gauge Photo Upload Tool

Please be aware that once you have completed the upload process there will be a delay of up to 20 minutes before your photos will be available within the CMS interface.

Logged In As: john.doe@noaa.gov - [Log Out](#)

Login successful.

WFO

Select A WFO Choose

- Select A WFO
- ABQ
- ABR
- AKQ
- ALY
- AMA
- APX
- ARX
- BCM
- BIS
- BMX
- BOI
- BOU
- BOX
- BRO
- BTX
- BUF
- BYZ
- CAE

Figure 6: Selection of WFO / HSA



NWSLI Selection

After users have selected the desired HSA, they will be taken to another screen that will provide an NWSLI dropdown selection menu. Users will simply click the menu (sorted alphabetically) and choose the site ID that they would like to upload an image for. (See **Figure 7** below.)



Figure 7: NWSLI Selection



Image File Browse/Preview

After users have successfully located and selected the appropriate NWSLI, they will then be provided with an interface in which to select a local image file. Users will click the **Browse...** button to bring up the file selection window. After users have selected the desired file users can click **Preview** to view the file within the interface.

Gauge Photo Upload Tool

Please be aware that once you have completed the upload process there will be a delay of up to 20 minutes before your photos will be available within the CMS interface.

Logged In As: john.doe@noaa.gov - [Log Out](#)

Gauge Photo

Browse... **Preview**

Figure 8: Image File Browse/Preview Page



Upload of File

Gauge Photo Upload Tool

Please be aware that once you have completed the upload process there will be a delay of up to 20 minutes before your photos will be available within the CMS interface.

Logged In As: john.doe@noaa.gov - [Log Out](#)



Upload

Figure 9: Sample Photo Selected and Previewed

After users have selected their desired image file and previewed the image to ensure it will display the way they wish, they should click  to queue the image file to move the AHPS servers.



Gauge Photo Upload Tool

Please be aware that once you have completed the upload process there will be a delay of up to 20 minutes before your photos will be available within the CMS interface.

Logged In As: john.doe@noaa.gov - [Log Out](#)

The gauge photo was uploaded successfully.

The uploaded gauge photo will be available on the corresponding gauge edit page within 20 minutes. Once available please edit the caption for your photo and it will be presented on the appropriate ahps pages.

[Upload another photo for this location.](#)

[Upload photos to a new location.](#)

Figure 10: Successful Upload Confirmation Screen

When users have successfully uploaded their desired image they will be directed to a page where they can either upload additional photos for this location, choose to upload images to another location within the area of their responsibility, or simply log out of the tool. After the 20- minute period has passed, please login to the AHPS CMS and navigate to the corresponding "Gauge edit" page and edit the captions of the images so they will display on the hydrograph pages. See below:

Photo

Photos with no caption specified will not display on the hydrograph page.

If you would like to upload photos [click here](#).



Edit

Move Down



Fish River on 4/30/2008 flooded at 13.8 feet

Edit

Move Up

Figure 11: Caption/Photo Edit Area Gauge Edit Page (AHPS CMS)



Users will simply need to click **Edit** located to the right of the image thumbnail to access the area where they can add the text for the caption. See below:

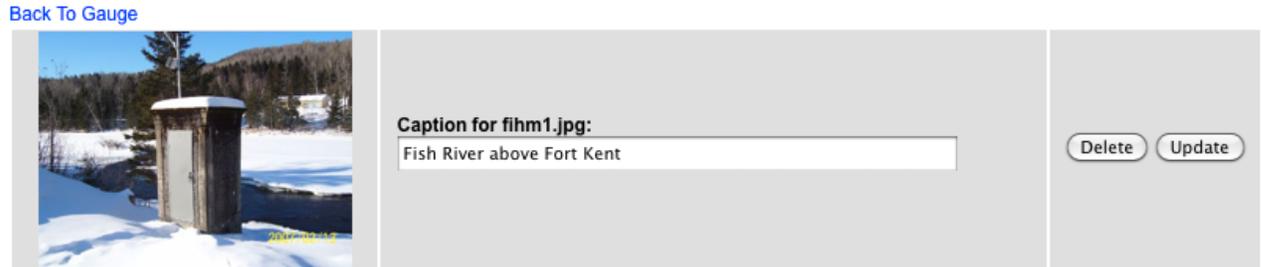


Figure 12: Caption Text Edit Area (AHPS CMS)

After the text has been input, users will click **Update** to add the caption to the image. Users will see a confirmation text appear below the **Update** button shown below. To return to the Gauge Edit Page, users will need to click “[Back To Gauge](#)” located just above the image. Once this has been completed users will be able to view the images on the hydrograph page, see below.

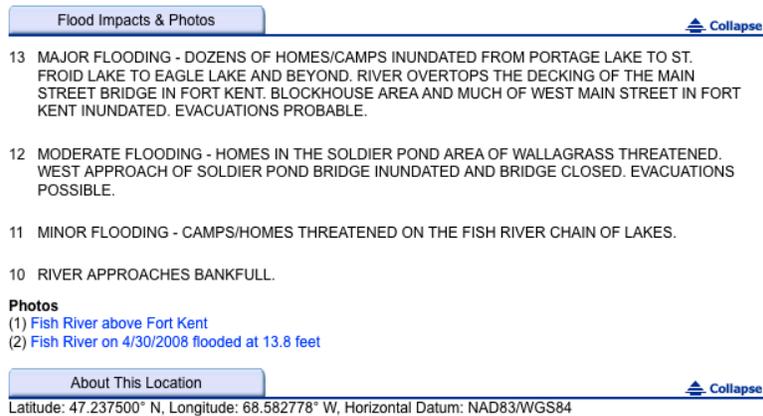


Figure 13: Available Photos on Hydrograph Page



Appendix D – AHPS CMS Admin Functions

Scope:

Within the AHPS CMS there are certain features that are only available to AHPS CMS Administrators. This group of users includes the NWS Region Hydro Focal Points and their associated backups, NWS HQ/OHD Management, and NWS CMS Administrators. The purpose of this section is to provide direction as to how these features function so that new administrators can become educated on these operational features.

Introduction:

To begin this supplement we will introduce the methodology used to identify an “Admin Only” type feature. Below in **Figures D-1 and D-2** users can see there are some subtle differences in the selectable options available. What is most noticeable is in **Figure D-2** there are some selection titles that are colored **Bright Blue (HSA and RSS Location)**. This is how users can clearly identify an “Admin Only” feature.

CAR - Edit Gauge DOVM1

River Name	Piscataquis River	<input type="button" value="Gauge List"/>
Proximity	at	
Location Name	Dover-Foxcroft	
State	Maine	
County	Androscoggin	
FFG Zone	Androscoggin	
Adjacent State	No State Selected	For RSS selection and display.
Time Zone	EST/EDT (GMT-5/-4)	

Figure D-1: Gauge Configuration Page (Standard AHPS User)



CAR - Edit Gauge DOVM1

WFO Caribou, ME (CAR)

River Name Piscataquis River [Gauge List](#)

Proximity at

Location Name

State Maine

County Androscoggin

FFG Zone Androscoggin

RSS Location Yes

Hemisphere Western Hemisphere

Adjacent State No State Selected For RSS selection and display.

Time Zone EST/EDT (GMT-5/-4)

Figure D-2: Gauge Configuration Page (AHPS Admin User)

Along with select functions on certain pages within the AHPS CMS, AHPS Administrators have several selections within the "Options" dropdown selection menu that are not available to Standard AHPS CMS Users. The items are:

- Changelog
- Compass
- Datum Explanations
- Datum Notes
- AHPS Globals
- Hydronotes
- Inundation Messages
- RFC Conf
- RSS Page Text
- Warnings
- Y Axis Content

This supplement will cover all of these items in detail along with any additional "Admin Only" items that may be located on the pages available to Standard AHPS CMS Users. We will begin with the items that reside on the pages that are shared between the two user types then move to the items that are available exclusively to AHPS Administrators.



Gauge Edit Page – Admin Only Functions

On the Gauge Edit Page there are seven items that are available to AHPS Administrators that are not available to standard users. These are covered below:

Configuration Item	Remarks
HSA	Dropdown selection box that allows the gauge to be assigned to the selected HSA.
Hemisphere	Dropdown selection box where users can select Western Hemisphere or Eastern Hemisphere. This selection helps with the placement of the River/Stream Location marker on the Google Maps.
RSS Location	Dropdown selection box where users can select either "Yes" or "No" If yes is selected the data from the gauge will have RSS data feed generated for the location.
USGS URL	Text Entry Box where users can enter the URL for that locations data within USGS web.
Latitude NRLDB	Latitude Values as populated by NRLDB. Adjustable by an admin on a temporary basis; overwritten by the NRLDB database each day. Only positive numbers are allowed.
Longitude NRLDB	Longitude Values as populated by NRLDB. Adjustable by an admin on a temporary basis; overwritten by the NRLDB database each day. Only positive numbers are allowed.

Gauge Edit Page (Edit HydroGen) – Admin Only Functions

Configuration Item	Remarks
HydroGen Upper Headroom	Dropdown selection box that allows the user to define a value from 1ft-15ft to provide additional feet padding to the top of the hydrographs.



Gauge Edit Page (Edit Inundation) – Admin Only Functions

AHPS Administrators have the ability to set whether or not a gage site is an Inundation Location and edit the Inundation configuration for that site. To access this area users will need to click **Edit Inundation** from the Gage Edit Page. This will direct users to a page where they can choose to enable the Inundation “Tab” for a gauge site. See **Figure D-3** below.

AHPS NWS WFO

Options: - Admin Gauges Go

CAR - Edit Gauge Inundation for DOVM1

Enable Inundation No

Update

Return to Gauge Editor

Figure D-3: Inundation Enable Page

***Please note for Inundation items a site from HSA RAH will be displayed (GLDN7).**

When users set the “Enable Inundation” option to “Yes” and click **Update** they will be directed to a page where they can actually edit the parameters for the Inundation Site. See **Figure D-4** on next page.



RAH - Edit Gauge Inundation for GLDN7

Using Google Maps

Enable Inundation	Yes
Google Default Map	Hybrid
Min Google Map Zoom	10
Max Google Map Zoom	17
Default Google Map Zoom	13
Display USACE Attribution Logo	Yes
USACE Attribution URL	http://www.dem.dcc.state.nc.us/
USACE Attribution Logo Alt Text	NC State Partner
Display USGS Attribution Logo	No
Display Partner Attribution Logo 1	No
Display Partner Attribution Logo 2	No
Custom Layer 1	No
Custom Layer 2	No
Custom Layer 3	No
Custom Layer 4	No
Custom Layer 5	No
Custom Layer 6	No
Custom Layer 7	No
Custom Layer 8	No
Custom Layer 9	No
Custom Layer 10	No
1% Annual Exceedance Flood Probability	Yes
0.2% Annual Exceedance Flood Probability	Yes
Display Inundation Extent Boundary	Yes
Show Floodway Data Layer	Yes
Show Overview Map	No
Default Flood Stage Category	Below
Zero Datum Reference Value	41.926
Depth Offset Value	45.35
Depth Range	1
Max Depth Value	29.074

Figure D-4a: Inundation Edit Page (top third)



Max Depth Value

Color Palette

Available Stages

A comma separated list of stages (i.e. 50,51,53,55,60).

Selected Stages

<input checked="" type="checkbox"/> 56.0 ft	<input type="checkbox"/> 61.5 ft	<input checked="" type="checkbox"/> 67.0 ft
<input type="checkbox"/> 56.5 ft	<input checked="" type="checkbox"/> 62.0 ft	<input type="checkbox"/> 67.5 ft
<input checked="" type="checkbox"/> 57.0 ft	<input type="checkbox"/> 62.5 ft	<input checked="" type="checkbox"/> 68.0 ft
<input type="checkbox"/> 57.5 ft	<input checked="" type="checkbox"/> 63.0 ft	<input type="checkbox"/> 68.5 ft
<input checked="" type="checkbox"/> 58.0 ft	<input type="checkbox"/> 63.5 ft	<input checked="" type="checkbox"/> 69.0 ft
<input type="checkbox"/> 58.5 ft	<input checked="" type="checkbox"/> 64.0 ft	<input type="checkbox"/> 69.5 ft
<input checked="" type="checkbox"/> 59.0 ft	<input type="checkbox"/> 64.5 ft	<input checked="" type="checkbox"/> 70.0 ft
<input type="checkbox"/> 59.5 ft	<input checked="" type="checkbox"/> 65.0 ft	<input type="checkbox"/> 70.5 ft
<input checked="" type="checkbox"/> 60.0 ft	<input type="checkbox"/> 65.5 ft	<input checked="" type="checkbox"/> 71.0 ft
<input type="checkbox"/> 60.5 ft	<input checked="" type="checkbox"/> 66.0 ft	
<input checked="" type="checkbox"/> 61.0 ft	<input type="checkbox"/> 66.5 ft	

Show Flood Categories in Menu

Default Layer Opacity: %



Upper Latitude Boundary

Eastern-Most Longitude Boundary

Lower Latitude Boundary

Western-Most Longitude Boundary

Map Center Latitude Boundary

Map Center Longitude Boundary

Site Specific Information

Empirical Rating

Figure D-4b: Inundation Edit Page (middle third)



Configuration Item	Remarks
Enable Inundation	Dropdown selection box Yes/No to enable or disable Inundation settings.
Google Default Map	Dropdown selection box. Select from Satellite, Hybrid, Roadmap or Terrain.
Min Google Map Zoom	Text field, numerical range, 1-20. The furthest that you want to allow users to zoom out on the map.
Max Google Map Zoom	Text field, numerical range, 1-20. The closest that you want to allow users to zoom in on the map.
Default Google Map Zoom	Text field, numerical range, value between previously entered min and max values. The default zoom level on page load.
Display USACE Attribution Logo	Dropdown selection box Yes/No. Selects whether or not to display the United States Army Corps of Engineers data partner logo. The CMS Support Team is in charge of managing the logo database at this time. The logo will be displayed in the Blue Left-hand Data Selection and Navigation Area.
USACE Attribution URL	Text field for a URL for the USACE office that helped with inundation data. URL must start with <i>http:</i> or <i>https:</i> .
USACE Attribution Alt Text	Text field for the alternate text for the USACE logo image.
Display USGS Attribution Logo	Dropdown selection box Yes/No. This option determines whether or not to display the USGS logo in the Inundation Partnership Area located in the Blue Left-hand Data Selection and Navigation Area. If this is selected the link to the USGS site is applied to this logo by default.
USGS Attribution URL	Text field for a URL for the USGS office that helped with inundation data. URL must start with <i>http:</i> or <i>https:</i> .
USGS Attribution Alt Text	Text field for the alternate text for the USACE logo image. The CMS Support Team is in charge of managing the logo database at this time. The logo will be displayed in the Blue Left-hand Data Selection and Navigation Area.
Display Partner Logo 1-2	Dropdown selection box Yes/No. This option selects whether or not to display the state partner logos that have worked to help provide data for the inundation project.



Configuration Item	Remarks
Partner Attribution URL	Text field for a URL for gauge data partner site, if applicable. URL must start with <i>http:</i> or <i>https:</i> .
Partner Attribution Alt Text	Text field for descriptive text for gauge data partner. The CMS Support Team is in charge of managing the logo database at this time. The logos will be displayed in the Blue Left-hand Data Selection and Navigation Area.
Custom Layer 1-10	Dropdown selection box Yes/No . Enables further text fields for custom map data provided by field offices. Up to ten custom layers may be applied to a location. Custom layers must be added when the inundation site is processed. If the option to use custom layers is turned on and no images are present, there will be an error on the map.
Custom Layer 1-10 Title	Text field for descriptive text for custom layer.
1% Annual Exceedance Flood Probability	Dropdown selection box Yes/No . This option determines whether or not the DFIRM 1% Annual Exceedance (100 year flood) data layer will be displayed as a selectable option for a location. If these data are not available, it is recommended that this be set to No . Custom title options are available, but the title will default to 1% Annual Exceedance Flood Probability if an empty value is submitted.
0.2% Annual Exceedance Flood Probability	Dropdown selection box Yes/No . This option determines whether or not the DFIRM 0.2% Annual Exceedance (500 year flood) data layer will be displayed as a selectable option for a location. If these data are not available, it is recommended that this be set to No . Custom title options are available, but the title will default to .2% Annual Exceedance Flood Probability if an empty value is submitted.
Display Inundation Extent Boundary	Dropdown selection box Yes/No . This option determines whether or not the Inundation Extent Boundary Lines will be drawn on the Inundation Mapping Area along areas where data look to end abnormally. This is to help note the area of the Inundation Study Information. Custom title options are available, but the title will default Inundation Extent Boundary if an empty value is submitted.



Configuration Item	Remarks
Show Floodway Data Layer	Dropdown selection box Yes/No . This option determines whether or not the DFIRM Floodway data layer will be displayed as a selectable option for a location. If these data are not available, it is recommended that this be set to No . Custom title options are available, but the title will default Inundation Floodway if an empty value is submitted.
Show Overview Map	Dropdown selection box Yes/No . Displays thumbnail of area in and around the view port in southeastern corner of Google Map. Can be toggled off and on by user on map as well.
Default Flood Stage Category	Dropdown selection menu with the five categories of flooding: Below, Near, Minor, Moderate, Major . This selection determines which flood category image loads by default on the Flood Categories page.
Zero Datum Reference Value	Text input box that will accept a numeric input value that will be used for the NAVD88 zero datum elevation reference.
Depth Range	Text input box that will accept a numeric input value. Value is 1 by default. When a user mouses over the inundation image and the depth is displayed, this value is the range returned. Example: 2.2 - 3.2 feet
Max Depth Value	Text input box that will accept a numeric value. Maximum depth of site at its highest inundation level.
Color Palette	Text input box that will accept a numeric value. This value is the number of colors in the color palette used to generate all of the inundation images in the site. The default value is 255.
Available Stages	Text input box that will accept a numeric input values in comma-separated format. This is where available stage values for a gauge inundation site are input. The stage value must always be a float value, even if it is a whole number. Example: 3.0,4.0.
Selected Stages	Checked-selection boxes that are displayed in coordination with the Available Stages values input into the configuration interface. The values that are selected here will be displayed within on the



Configuration Item	Remarks
	Inundation Levels page.
Show Flood Categories in Menu	Dropdown selection box Yes/No . This option determines whether or not the Flood Categories will be displayed within the Blue Left-hand Data Selection and Navigation area.
Default Layer Opacity	Text/Numeric input box. This box will accept a numeric value (0-100) that will represent the default opacity of all data layers. This is same layer opacity that is controlled by the Transparency Level Control Slider.
Upper Latitude Boundary	The Northern-Most Latitude (Top-Parallel) Boundary for the Inundation Area image overlay.
Eastern-Most Longitude Boundary	The Eastern-Most Longitude Boundary (Right Vertices) for the Inundation Area Map.
Lower Latitude Boundary	The Southern-Most Latitude Boundary (Bottom-Parallel) for the Inundation Area Map.
Western-Most Longitude Boundary	The Western-Most Longitude Boundary (Left Vertices) for the Inundation Area Map.
Map Center Latitude Boundary	Text input box for numeric values. Automatically populates with value from gauge location latitude, but can be changed to center on inundation image.
Map Center Longitude Boundary	Text input box for numeric values. Automatically populates with value from gauge location longitude, but can be changed to center on inundation image.
Site Specific Information	Text box for gauge-specific instructions or information about the location and its data.
Empirical Rating	Text box to provide disclaimer for how depths are calculated. "Rating Curve Extension - The Rating Curve Extension is calculated by using either a linear, logarithmic, or hydraulic technique to extend the rating curve above the currently established relationship between stage and flow."
Layer Order	Allows the users to adjust the display stacking order of FIM layers when presented on the Google Map interface. The inundation depth layer is always defined as zero (0). Positive order values will appear to display above the inundation depth layer. Negative order values will appear to display below the inundation depth layer.



Gauge Edit Page (Edit Quick Links) – Admin Only Functions

AHPS Administrators have the ability to set a variety of links and corresponding thumbnails for each gauge in the Quick Links feature. These links are gauge-specific and display in the InfoWindow that appears when a gauge marker is clicked on from the region-level map. See **Figure D-5** below.

The screenshot displays the AHPS map interface. At the top, there are tabs for 'River Observations', 'River Forecasts', 'Precipitation', and 'Download'. Below these, a status bar shows '58 total gauges' and '0 gauges in flood'. A navigation bar includes 'Print this map', 'Permalink', and 'BOOKMARK' options. The main map area shows a region in Maine with various gauges marked. A popup window titled 'Quick Links for Gauge DOVM1' is open, displaying three links: 'Hydrograph', 'Download', and 'Exceedance Probability', each with a corresponding thumbnail. The background map shows a region in Maine with various gauges marked. A legend on the right side of the map indicates different flood stages: Major Flooding (purple), Moderate Flooding (red), Minor Flooding (orange), Near Flood Stage (yellow), No Flooding (green), Observation More Than 24 Hours Old (grey), and Out of Service (dark grey). The map also shows navigation controls, a search bar, and a 'Reset View' button.

Figure D-5: Quick Links as they appear on the AHPS map



To access this area users will need to click [Edit Quick Links](#) from the Gauge Edit Page. This will direct users to a page where they can choose which links they want displayed on the Quick Links tab and further customize default links. See **Figure D-6** below.

DOVM1 - Edit Gauge Quick Links

Users can manage quick links for individual gauges. Up to ten links with pre-selected icons can be displayed on the quick links information window for each location.

Display order determines the order in which the links appear in the information window on the map. By default, the "Hydrograph" and "Download" options will always appear first and second, respectively.

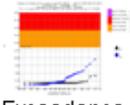
Quick Links	Display Order	Commands
 Hydrograph	1	
 Download	2	
 Exceedance Probability	<input type="text" value="3"/>	Update Order Delete Edit
Add Quick Link		
Return To Gage Page		

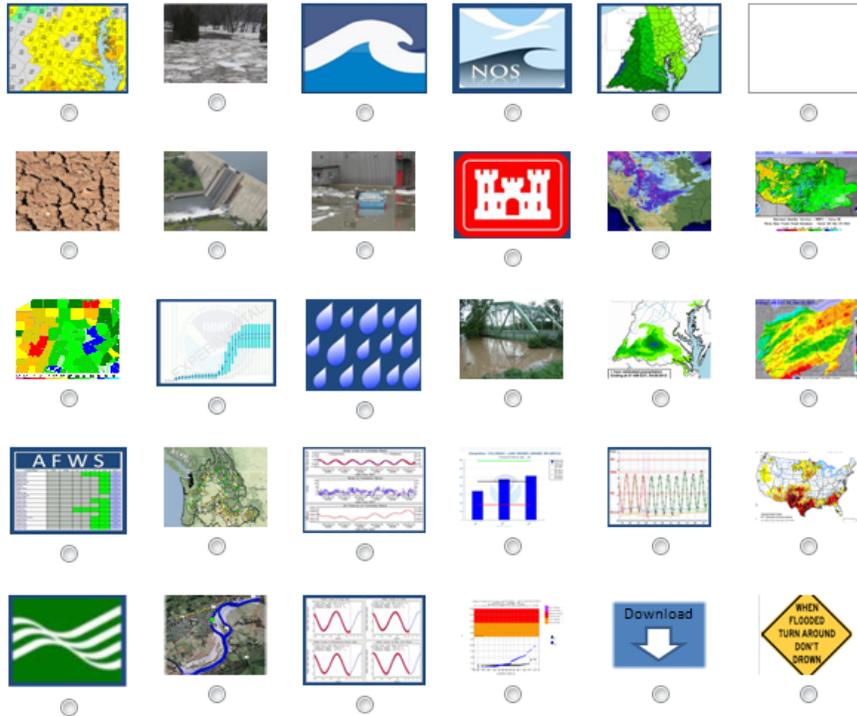
Figure D-6: Edit Gauge Quick Links overview

The links for the Hydrograph page and Download page are hard-coded into the Quick Links settings and cannot be altered or removed. Up to seven custom links can be added and can have their display order changed from 3 through 10 by using the dropdown selection menu. To change the order, select a new number from the dropdown menu and click [Update Order](#).

To add a new Quick Link, click on [Add Quick Link](#). To edit an existing Quick Link, click on [Edit](#) in the same row as the link you want to alter. This will take you to a new page. See **Figure D-7** below. To return to the edit gauge page, click on [Return To Gage Page](#).



DOVM1 - Edit Gauge Quick Links



*Note: Quick link labels are limited to 30 characters in length.

Quick Link Label

Quick Link URL

Quick Link Alt Text

Add

Return To Quick Links

Figure D-7: Adding or editing a Quick Link

Once on the Edit Gauge Quick Links page, you can select one of 30 pre-made icons and enter or update three text values for the link: the Label, URL and Alt Text.

Configuration Item	Remarks
Quick Link Label	Text that will appear as a link under the icon. Limited to 30 characters.
Quick Link URL	Web address for Quick Link. URL should start with <i>http://</i> or <i>https://</i> .
Quick Link Alt Text	Text that will appear as alt text for Quick Link icon.



When you are finished making changes, click “Add” or “Update” to save your Quick Link.

If you want to delete a Quick Link from a gauge, click on Delete in the same row as the link you want to remove. You will be directed to a new page, where you will be asked to confirm that you want to continue with the deletion. See **Figure D-8** below. To cancel, click Cancel. This will return you to the Edit Quick Links overview page.

Deletion Confirmation

If changes on this page are outside your area of responsibility, please be aware that the change(s) you are about to make will likely impact other office's configuration settings. If you have questions, contact ahps.cms@noaa.gov before making changes to determine potential ramifications.

The following commands will be processed:

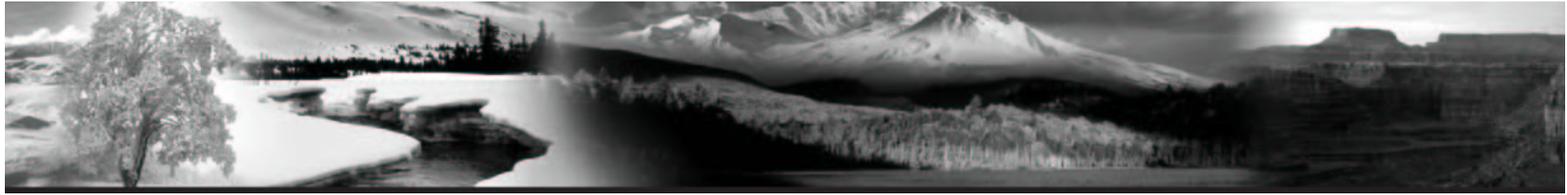
- The quick link, 'Inundation Images', for gauge dovm1 will be deleted .

Are you sure you want to continue?

Cancel

Confirm Delete

Figure D-8: Delete Confirmation in the Quick Links editor



AHPS Administrator Only Dropdown Items

We will now cover the items that are available exclusively to AHPS Administrators. Some selectable items will only appear in the "Options" dropdown selection box based upon where users are within the interface. For example, before users select a HSA, they will have the options of:

- RFC Conf
- RSS Page Text
- Warnings
- Y Axis Content
- Water Resource Regions
- States

If a HSA is selected, in addition to the options above, users will gain the option to view the Changelog for the particular selected HSA along with standard changelog. We will present the data as the interface presents it with the items above first and the items that are included pages once a HSA is selected.



RFC Conf

RFC Conf is where AHPS Administrators can enter information for River Forecast Center Pages. When this item is selected users are directed to a page like the one below in **Figure D-9**. Once on this page users can simply click on a RFC to enter the RFC Edit Page **Figure D-10** on following page.

AHPS
NWS WFO

Options:

City	Abbrev
Alaska Pacific River Forecast Center	APRFC
Arkansas Red-Basin River Forecast Center	ABRFC
California Nevada River Forecast Center	CNRFC
Colorado Basin River Forecast Center	CBRFC
Lower Mississippi River Forecast Center	LMRFC
Middle Atlantic River Forecast Center	MARFC
Missouri Basin River Forecast Center	MBRFC
North Central River Forecast Center	NCRFC
Northeast River Forecast Center	NERFC
Northwest River Forecast Center	NWRFC
Ohio River Forecast Center	OHRFC
Southeast River Forecast Center	SERFC
West Gulf River Forecast Center	WGRFC

US Dept of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
1325 East West Highway
Silver Spring, MD 20910

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[Career Opport](#)

Web master's email: nws.cms@noaa.gov
rfcpick.php last modified at Fri Apr 15 14:02:42 EDT 2011.

Figure D-9: RFC Conf Page

NERFC - RFC Main

RFC City Name
 State
 Postal StreetAddress
 Postal City Name
 Zip Code
 Public Phone
 Observes DST
 Time Zone
 Precip. URL
 QPF URL
 Base URL
 RFC URL
 RFC Images URL
 Google Maps Max Zoom
 Google Maps Min Zoom

Set the map's center point and zoom level by clicking, dragging and scrolling with your mouse or by using the Google Map controls located on the map. When you're done making adjustments, press **Update** to save your changes.

Update



Figure D-10: RFC Main Page Editor

Configuration Item	Remarks
RFC City Name	Text entry box where users can spell out the name of the RFC
State	Dropdown selection box where users can select what state the RFC resides within
Postal/Street Address	Text entry box where users can enter the Postal or Street Address that will be displayed on the RFC Main Page
Zip Code	Text entry box where users can enter the ZIP code for the RFC
Public Phone	Text entry box where users can enter a phone number to display on the RFC Main Page



Observes DST	Dropdown selection box that provides users with the option to choose whether or not the RFC observes Daylight Savings Time. Options are "Yes" or "No"
Time Zone	Dropdown selection box that allows the RFC to be assigned to a particular Time Zone. This will allow time to be displayed correctly on the RFC Pages.
Precip URL	Text entry box where users can enter the URL for a particular Precipitation Page that will display as link on the RFC Page
QPF URL	Text entry box where users can enter the URL for a particular QPF page to be displayed as a link on RFC Page
Base URL	Text entry box where users can enter the base URL for the location of the RFC Page such as http://www.erh.noaa.gov
RFC URL	Text entry box where users can enter the actual URL for the location of the RFC Page on the server.
RFC Images URL	Text entry box where users can enter the location/directory of the images that are to be displayed on the RFC Page.
Google Maps Max Zoom	Text entry box where users can enter a value from 1 to 20 to how close public users can zoom into the RFC map, 20 being the closest.
Google Maps Min Zoom	Text entry box where users can enter a value from 1 to 20 to how far public users can zoom out from the RFC map, 1 being the furthest.
Google Map location	Google Map interface where users can click, drag and zoom to set the default view for the RFCs Google Map.



RSS Page Text

Another feature available to AHPS Administrators is the ability to edit the text that is listed on the RSS Products Page. **Users will need to know how to edit within html to enter the information into the text boxes for the respective areas on this page.** If you are unsure about any of this please contact the AHPS CMS Support Team.

AHPS NWS WFO

Options: - RSS Page Text Go

Admin Hydronotes

Text Type	Current Value
Observed Text	<pre>Note: The data are from automated sensors and are generally from equipment that is maintained by the US Geological Survey (or other collaborating agencies). The data are provisional and subject to change. Data update rates are highly variable depending on the specific location of interest.</pre>
Forecast Text	<pre>Note: Routine Daily Forecasts of River Conditions are available at select river locations where data histories and forecast procedures make them possible. These forecasts are generally updated from 11:00 AM to noon local time. This RSS feed is based on the original development efforts of John Yagecic of the Delaware River Basin Commission</pre>
Alert Text	<pre>Note: The alerts utilize both observations and forecast information (where available). Forecasts are available at select river locations where data histories and forecast procedures make them possible. This RSS feed is based on the original development efforts of John Yagecic of the Delaware River Basin Commission</pre>

Update

Figure D-11: RSS Page Text Editor

Users can edit the Text that appears in the Observed Values Text, The Forecast Values Text and the Alert Text that are generated with each RSS Product.



Warnings

The Warnings selection within the Options dropdown selections menu is where AHPS Administrators can adjust the Font Color for any of the Warnings that are displayed at the top of HSA Pages and the color bar above Hydrographs. Should a color need to be changed, users simply need to enter the Web color-code for the font color they wish to use with a particular Warning and click [Update](#). See **Figure D-12** below.

AHPS
NWS WFO
Options: - Warnings ⌵ Go

Warning Colors

Product	Font Color	Command
Tornado Warning	<input type="text" value="#000000"/>	Update
Severe Thunderstorm Warning	<input type="text" value="#000000"/>	Update
Flash Flood Warning	<input type="text" value="#FFFFFF"/>	Update
Tsunami Warning	<input type="text" value="#000000"/>	Update
Inland Hurricane Warning	<input type="text" value="#000000"/>	Update
Hurricane Force Wind Warning	<input type="text" value="#000000"/>	Update
Typhoon Warning	<input type="text" value="#000000"/>	Update
Hurricane Warning	<input type="text" value="#000000"/>	Update
Blizzard Warning	<input type="text" value="#000000"/>	Update
Ice Storm Warning	<input type="text" value="#FFFFFF"/>	Update
Inland Tropical Storm Warning	<input type="text" value="#FFFFFF"/>	Update
Heavy Snow Warning	<input type="text" value="#000000"/>	Update
Winter Storm Warning	<input type="text" value="#000000"/>	Update
Tropical Storm Warning	<input type="text" value="#FFFFFF"/>	Update
Dust Storm Warning	<input type="text" value="#000000"/>	Update
Storm Warning	<input type="text" value="#FFFFFF"/>	Update
Coastal Flood Warning	<input type="text" value="#000000"/>	Update

Figure D-12: Warnings Color Edit Page



It is suggested that these be left untouched unless an approved change for a color has been made.

Y-Axis Content

The final item to cover within the "Options" dropdown selection box before a HSA is selected is the Y-Axis Content Editor. This item allows AHPS Administrators to edit the page content associated with the links located in the Y-Axis of the hydrographs (Stage and Flow). **Users will need to have knowledge of HTML to edit this area.** If you do not have knowledge of HTML you should contact the AHPS CMS Support team. See **Figure D-13** below.

AHPS NWS WFO

Options: - Y Axis Content Go

Y Axis Page Editor

Page Title: Stage Defined (yaxisinfo.php)

Plain text or HTML formatted text goes here.

```
<div align="center"><a href="javascript:history.back();"><b>Return to Hydrograph</b></a></div>
<p />
Stage - The level of the water surface in a river measured with reference to some datum.
<p />
<p>
Datum - For marine applications, a base elevation used as a reference from which to reckon heights or depths.<br /><br />
It is called a tidal datum when defined in terms of a certain phase of the
```

Update

Page Title: Ratings and Unit Hydrographs (yaxis2info.php)

Plain text or HTML formatted text goes here.

```
<div align="center"><a href="javascript:history.back();"><b>Return to Hydrograph</b></a></div>
<p />
Flow is the streamflow or discharge of water along a defined natural channel.
<p />
Flow on a hydrograph is related to stage by a rating curve. The rating curve represents the actual flow, in CFS (Cubic Feet Per Second) or KCFS (Thousands of Cubic Feet Per Second) for a particular stage at that river location.
<p />
```

Update



Figure D-13: Y-Axis Content Editor Page

Compass

Once an AHPS Administrator selects a HSA to configure, the Options dropdown selection menu will change slightly as previously mentioned. Compass is an option that will still be present once a HSA is selected. If Compass is selected it will look as if users have redirected back to the "Select HSA Page". Once here users can select what HSAs AHPS Compass they would like to edit. Once they have chosen a HSA, they will be directed to a page that looks like **Figure D-14** below.

AHPS NWS WFO

Options: - Admin Gauges Go

CAR - Compass Editor

Use the following form to edit the adjacent locations for this WFO.

 [Dropdown menu] Update	 [Dropdown menu] Update	 [Dropdown menu] Update
 [Dropdown menu] Update		 [Dropdown menu] Update
 Burlington, VT Update	 Gray, ME Update	 [Dropdown menu] Update

Figure D-14: Compass Editor Page

Once on the Compass Editor Page, users can change or add additional navigational arrows by selecting the desired HSA for that particular direction from the dropdown selection box and clicking **Update** when done choosing for that particular direction.



Datum Notes Administration

Should a Datum Note need to be edited or a new one added AHPS Administrators will complete that task via this selection. Once on this page, users can edit the information of an existing note within the text box by simply editing the text. If a link needs to be added/adjusted within a note, it will need to be input as HTML. For example a link to FEMA Flood Maps that displays only as **msc.fema.gov** on the webpage should be input as the following:

```
<a href="http://msc.fema.gov">msc.fema.gov</a>
```

Once an existing note has been updated users will click **Update** to complete the change. Users can also remove a note entirely by clicking **Delete**. To enter a new note users should input the desired note information in the very bottom blank text entry box and click **Add** when finished.

AHPS NWS WFO

Options: - Datum Notes Go

Datum Notes Administration

Datum Note	Commands
More information on FEMA flood maps is available at <code>msc.fema.gov</code>	Update Delete
More information on topographic maps is available at <code>topomaps.usgs.gov</code>	Update Delete
Vertical datum height surveyed by the USGS	Update Delete
Vertical datum height estimated from NGVD29 to NAVD88 using the NGS VERTCON conversion program	Update Delete
Vertical datum height surveyed by the NWS	Update Delete
Vertical datum height estimated by a GPS unit	Update Delete
Vertical Datum references a tidal datum...for more information see <code></code>	Update Delete



Figure D-15: Datum Notes Administration Editor Page



Figure D-16: AHPS Globals Editor Page



Hydronotes

In the past, Hydronotes had to be submitted by Service Hydrologists to the Region Hydro Focal Point and then past on to the AHPS CMS Support Team to be added manually to a file. With the addition of this selection for AHPS Administrators the Regional AHPS personnel could now control these messages. To Add, Edit or Delete a Hydronote, users simple would need to click Hydronote in the Options dropdown selection menu. They will be directed to the page displayed below in **Figure D-18**.

Options: - Hydronotes - Go

Admin Hydronotes

Hydronote	Commands
-- none --	Update Delete
2011 crest data is provisional and subject to revision.	Update Delete
On Tuesday, February 14th, 2012, flood stage at Circleville,	Update Delete
Effective on Tuesday, January 31st, 2012, flood stage at Piketon, OH	Update Delete
NWS Precipitation and River Forecasting Discussion -	Update Delete
<p class=MsoNormal>Vertical datum updated to 789.27 ft. NAVD88 or 788.95 ft. NGVD29. More information - <a	Update Delete
<p>Flood stage at this location will be lowered to 220 feet as of January 11, 2012. Please see our	Update Delete
We are looking for a volunteer to report rainfall and/or snowfall near this location. If interested, please contact the local NWS office	Update Delete
	New

Figure D-18: Hydronotes Editor Page

Just like the previous note editors, once an existing note has been updated users will click [Update](#) to complete the change. Users can also remove a note entirely by

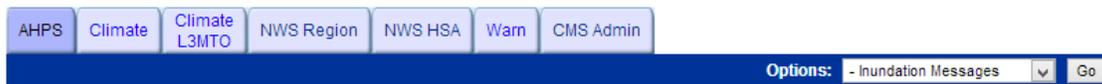


clicking **Delete** . To enter a new note users should input the desired note information in the very bottom blank text entry box and click **Add** when finished.

Global Inundation Messages Editor

Just as with the other global message editors these text entry boxes except HTML formatted information and drive the respective messages that each box is labeled with on the AHPS Inundation Pages:

- About Inundation
- Inundation FAQ Text
- Print/Save Image Alert Text



Global Inundation Messages Editor

Simply enter the HTML of the page below and click "Update" to save it.

About Inundation Text

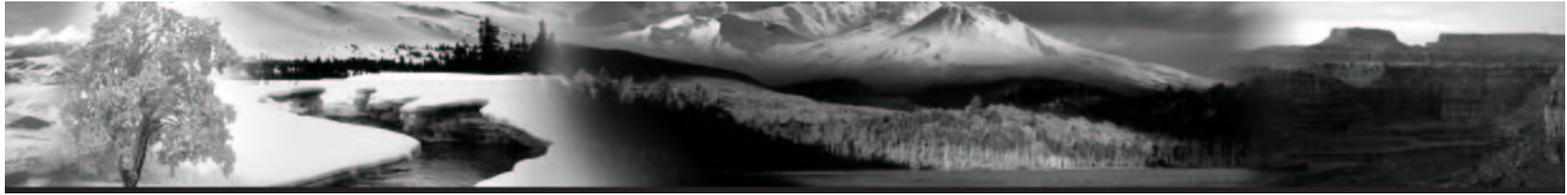
```
<style type="text/css">
  .style1 {
    color: #FFFFFF;
    font-family: Arial;
    background-color: #FF3300;
  }
  .style2 {
    font-family: Arial;
  }
</style>

<h3>About Inundation</h3>
<p />
<
```

Inundation FAQ Text

```
<h3>Inundation F.A.Q.&apos;s</h3>
<UL>
<LI>
<a name="missing_flood_cats"><SPAN STYLE="text-decoration: underline">Why are there missing flood categories?</SPAN></a> - A Flood Category may be excluded from the inundation study area due to lack of elevation data for the given study location.</LI>
<P />
<LI><SPAN STYLE="text-decoration: underline">What is a "100-year flood"?</SPAN>
-
```

Figure D-19: Global Inundation Messages Editor



Once users have updated the desired content they will click [Update](#) to finalize the changes that were just made.



Changelog

The final item to be covered in this Admin Guide is the Changelog. This can be a very handy tool for AHPS Administrators to use for troubleshooting issues that suddenly occur on a HSA's AHPS webpage. Once this selection has been chosen from the "Options" dropdown selection box, users will be presented with the page displayed in **Figure D-21**. Once on this page users can select one of the dates listed to view the changes that were made to the HSA's AHPS configuration on that particular date.



Figure D-20: Changelog Date Selection Page

An example of what AHPS Administrators will be presented with after a date has been selected can be viewed on the next page in **Figure D-22**. The information will inform the Administrator who made the change, what time they made the change and what change was exactly applied.



Figure D-21: Sample of Changelog

This concludes the AHPS CMS Administrator's Guide