|  |
| --- |
| <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd"> |
|  |  |
|  | <!--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*GENERAL NOTES\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* --> |
|  | <!-- |
|  | <!DOCTYPE html> |
|  | \* This file is modified by Joseph Zhao Jan. 20 2013 based on version 2.7 release |
|  |  |
|  | \*This is the administration system help file |
|  | \*Completely re-coded by Graeme Jones December 2011 for Juturna 2.6 release |
|  | \*ash\_ is attached to the id attribute for cross-file linking |
|  | \*\*Removed all inline styles and html automated generated code "bloat" |
|  | \*\*styles located in header with .css (can be moved to referenced file) |
|  | \*\*table of contents now links to the document already received from server instead of making new server calls when user links to sections |
|  | --> |
|  | <html> |
|  | <head> |
|  | <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"> |
|  | <meta name="keywords" content="Juturna, web-GIS, community-based environmental modelling, CBEM, volunteer monitoring, toronto watershed"> |
|  | <meta name="description" content="Online help system and system information for the Juturna web-distibuted geographic information system. The system is designed to support upload, analysis and reporting of community and volunteer collected water quality data in streams."> |
|  | <meta name="csrf-param" content="authenticity\_token"> |
|  | <meta name="csrf-token" content="7eIFKjnS2+jqMpdMQiObeE58jRn8Z8NcZ5ZPnY4ZgiA="> |
|  | <title>Juturna 2.7 Web-GIS: Help File and System Documentation</title> |
|  | <link href="[application.css](http://www.juturna.ca/admin/application.css)" media="screen" rel="stylesheet" type="text/css"> |
|  | <link href="[example.css](http://www.juturna.ca/admin/example.css)" media="screen" rel="stylesheet" type="text/css"> |
|  | <link href="[scaffold.css](http://www.juturna.ca/admin/scaffold.css)" media="screen" rel="stylesheet" type="text/css"> |
|  | <script src="[prototype.js](http://www.juturna.ca/admin/prototype.js)" type="text/javascript"></script> |
|  | <script src="[effects.js](http://www.juturna.ca/admin/effects.js)" type="text/javascript"></script> |
|  | <script src="[dragdrop.js](http://www.juturna.ca/admin/dragdrop.js)" type="text/javascript"></script> |
|  | <script src="[controls.js](http://www.juturna.ca/admin/controls.js)" type="text/javascript"></script> |
|  | <script src="[rails.js](http://www.juturna.ca/admin/rails.js)" type="text/javascript"></script> |
|  | <script src="[application.js](http://www.juturna.ca/admin/application.js)" type="text/javascript"></script> |
|  | <style type="text/css"> |
|  | img |
|  | { |
|  | border: 0; |
|  | } |
|  | .user\_notice /\*text at top of helpfile\*/ |
|  | { |
|  | font: "Times New Roman"; |
|  | color:green; |
|  | } |
|  | .s\_toc /\*section headers in table of contents\*/ |
|  | { |
|  | margin:0cm 0cm 0cm 0cm; |
|  | } |
|  | .ss\_toc /\*subsections in table of contents\*/ |
|  | { |
|  | margin:0cm 0cm 0cm 1cm; |
|  | } |
|  | /\*\*/ |
|  | </style> |
|  | </head> |
|  | <body> |
|  | <div id="user\_Notice" > |
|  | <h2 class="user\_notice">Note to users: We are continually trying to improve this system, and its help files/system documentation. Please report any problems, bugs or suggestions to Professor |
|  | <a class="user\_notice" href="<mailto:bunchmj@yorku.ca?subject=Juturna%20bug%20report,%20comment%20or%20suggestion>">Martin Bunch</a>, Faculty of Environmental Studies, York University.</h2> |
|  | </div> |
|  | <!--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Table of Contents \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* --> |
|  | <div id="toc"> |
|  | <h1>Table of Contents</h1> |
|  | <p class="s\_toc"><a href="[#ash\_1.0](http://www.juturna.ca/admin/adminhelp#ash_1.0)">1.0 Overview of System Management</a></p> |
|  | <p class="ss\_toc"><a href="[#ash\_1.1](http://www.juturna.ca/admin/adminhelp#ash_1.1)">1.1 Purpose</a></p> |
|  | <p class="ss\_toc"><a href="[#ash\_1.2](http://www.juturna.ca/admin/adminhelp#ash_1.2)">1.2 Registered Users</a></p> |
|  | <p class="s\_toc"><a href="[#ash\_2.0](http://www.juturna.ca/admin/adminhelp#ash_2.0)">2.0 The System Administration Interface</a></p> |
|  | <p class="ss\_toc"><a href="[#ash\_2.1](http://www.juturna.ca/admin/adminhelp#ash_2.1)">2.1 The Scrollable Browser Table </a> </p> |
|  | <p class="s\_toc"><a href="[#ash\_3.0](http://www.juturna.ca/admin/adminhelp#ash_3.0)">3.0 User Functions</a></p> |
|  | <p class="ss\_toc"><a href="[#ash\_3.1](http://www.juturna.ca/admin/adminhelp#ash_3.1)">3.1 Managing Existing Users</a></p> |
|  | <p class="ss\_toc"><a href="[#ash\_3.2](http://www.juturna.ca/admin/adminhelp#ash_3.2)">3.2 Adding New Users</a></p> |
|  | <p class="ss\_toc"><a href="[#ash\_3.3](http://www.juturna.ca/admin/adminhelp#ash_3.3)">3.3 Approve Pending User Account Requests</a></p> |
|  | <p class="s\_toc"><a href="[#ash\_4.0](http://www.juturna.ca/admin/adminhelp#ash_4.0)">4.0 Group Name management</a></p> |
|  | <p class="s\_toc"><a href="[#ash\_5.0](http://www.juturna.ca/admin/adminhelp#ash_5.0)">5.0 Using Administration Tools</a></p> |
|  | <p class="ss\_toc"><a href="[#ash\_5.1](http://www.juturna.ca/admin/adminhelp#ash_5.1)">5.1 Watershed Management</a></p> |
|  | <p class="ss\_toc"><a href="[#ash\_5.2](http://www.juturna.ca/admin/adminhelp#ash_5.2)">5.2 Creating a New Watershed</a></p> |
|  | <p class="ss\_toc"><a href="[#ash\_5.3](http://www.juturna.ca/admin/adminhelp#ash_5.3)">5.3 Subwatershed Management</a></p> |
|  | <p class="ss\_toc"><a href="[#ash\_5.4](http://www.juturna.ca/admin/adminhelp#ash_5.4)">5.4 Creating a New Subwatershed</a></p> |
|  | <p class="s\_toc"><a href="[#ash\_6.0](http://www.juturna.ca/admin/adminhelp#ash_6.0)">6.0 System Backup</a></p> |
|  | <p class="s\_toc"><a href="[#ash\_7.0](http://www.juturna.ca/admin/adminhelp#ash_7.0)">7.0 System Parameters</a></p> |
|  | <p class="ss\_toc"><a href="[#ash\_7.1](http://www.juturna.ca/admin/adminhelp#ash_7.1)">7.1 Navigating Metadata</a></p> |
|  | <p class="ss\_toc"><a href="[#ash\_7.2](http://www.juturna.ca/admin/adminhelp#ash_7.2)">7.2. Adding New Metadata Parameters</a></p> |
|  | <p class="s\_toc"><a href="[#ash\_8.0](http://www.juturna.ca/admin/adminhelp#ash_8.0)">8.0 Updating System Watersheds Polygons</a></p> |
|  | <p class="s\_toc"><a href="[#ash\_9.0](http://www.juturna.ca/admin/adminhelp#ash_9.0)">9.0 Updating System Subwatersheds Polygons</a></p> |
|  | <p class="s\_toc"><a href="[#ash\_10.0](http://www.juturna.ca/admin/adminhelp#ash_10.0)">10.0 Juturna 2.7 Core Functions</a></p> |
|  | <p class="s\_toc"><a href="[#ash\_11.0](http://www.juturna.ca/admin/adminhelp#ash_11.0)">11. Recalculate Overall Assessments</a></p> |
|  | <p class="s\_toc"><a href="[#ash\_12.0](http://www.juturna.ca/admin/adminhelp#ash_12.0)">12.0 Versioning</a></p> |
|  | <p class="s\_toc"><a href="[#ash\_13.0](http://www.juturna.ca/admin/adminhelp#ash_13.0)">13.0 Setting up a New Juturna Server</a></p> |
|  | </div> |
|  | <!--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Section 1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* --> |
|  | <div id="ash\_1.0"> |
|  | <h1>1.0 Overview of System Management</h1> |
|  | <div id="ash\_1.1"> |
|  | <h2>1.1 Purpose</h2> |
|  | <p>There are two types of accounts in the Juturna |
|  | Web-GIS system: Volunteer accounts and Administrator accounts. Volunteer accounts are intended for users of the system who participate in |
|  | community-based environmental monitoring (CBEM) programs that generate water |
|  | chemistry and benthic macroinvertebrate data to |
|  | indicate stream health. Administrator accounts are intended for managers of |
|  | CBEM programs that need to administer the data generated (quality control), |
|  | assign new accounts, remove monitoring stations, etc.. System Management also functions as a device for |
|  | editing fundamental characteristics of the watersheds and subwatersheds, |
|  | as well as managing metadata. </p> |
|  | </div> |
|  | <div id="ash\_1.2"> |
|  | <h2>1.2 Registered Users</h2> |
|  | <p>Many functions of the Juturna 2.7 system can be |
|  | accessed by the general public without needing a user account to log in to the |
|  | system. Only data upload, data editing, and data deleting functions and |
|  | account management require a user account. The Role of System Manager |
|  | should be reserved for the administrator of the site, and any parties assisting |
|  | the administrator in managing the system. All other parties involved can |
|  | operate as volunteers by selecting "Create New Account" in the upper |
|  | right hand corner of the header, and waiting for approval by the system |
|  | administrator. Please see |
|  | <a href="[#ash\_3.3](http://www.juturna.ca/admin/adminhelp#ash_3.3)">Approve Pending User Account Requests.</a></p> |
|  | </div> |
|  | </div> |
|  | <!--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Section 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* --> |
|  | <div id="ash\_2.0"> |
|  | <h1>2.0 The System Administration Interface</h1> |
|  | <div id="ash\_2.1"> |
|  | <h2>2.1 The Watersheds Info Panel</h2> |
|  | <p><img alt="" id="ash\_fig\_1" src="[/images/systemhelp2.7/admin1.png](http://www.juturna.ca/images/systemhelp2.7/admin1.png)" width="213" height="588"></p> |
|  | <p>Figure 1</p> |
|  | <p>Immediately below the Header Bar on the left of the Juturna 2.7 |
|  | browser window is the Watersheds Info panel with tabs labelled "Map |
|  | Layers", "Watersheds List", "Stations List", "System Administration" |
|  | and "System Information". Only users with administrator privileges |
|  | will be able to use the "System Administration" option. Selecting |
|  | "System Administration" will reveal a panel as displayed in <a href="[#ash\_fig\_1](http://www.juturna.ca/admin/adminhelp#ash_fig_1)">figure 1</a>. The |
|  | "System Administration" panel allows the user to select all administrative |
|  | options. </p> |
|  | <p>Use of the functions "Report", "Download", "Edit", "Delete" are the same as |
|  | described in the "System Help" Section |
|  | <a href="[/admin/systemhelp#sh\_4.5](http://www.juturna.ca/admin/systemhelp#sh_4.5)">4.5 Using Details Panel</a>. |
|  | One exception is that as an administrative user you are able to delete data. Note |
|  | that only the user who entered the data, or an administrator user, may do so.</p> |
|  | </div> |
|  | </div> |
|  | <!--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Section 3 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* --> |
|  | <div id="ash\_3.0"> |
|  | <h1>3.0 User Functions</h1> |
|  | <div id="ash\_3.1"> |
|  | <h2>3.1 Add New User</h2> |
|  | <p>Add a new user when a pending user account doesn't exist and you wish to add |
|  | a volunteer or additional administrator who has not applied for a user account |
|  | independently.</p> |
|  |  |
|  | <p>Left Clicking on "User Account Management", in the "System Administration" panel, will |
|  | display the "User Account Management Window". On the left side of this window the existing accounts are listed. |
|  | On the right side of this window is the "User Account Details". Left Clicking on "Add New" button in the "User Account Management" window, will |
|  | add a new user field to the list and allow you to add user details in the "User Account Details" area (See <a href="[#ash\_fig\_2](http://www.juturna.ca/admin/adminhelp#ash_fig_2)">figure 2</a>). |
|  | Add the proper information in the spaces provided including user name, first name, last name, |
|  | email, and address. Select from the drop down menu either the |
|  | role of an "Administrator" or Volunteer". Required fields are "User name" and "Email". If these spaces are left blank |
|  | or are not within the set parameters you will receive an error message with |
|  | instructions on correcting the problem. After left clicking "Create User" the |
|  | user name and Password will be displayed to the left of the form. This data |
|  | will be saved and the information sent to the email address specified. The |
|  | email will include the new user's username and password. </p> |
|  |  |
|  | <p><img alt="" id="ash\_fig\_2" src="[/images/systemhelp2.7/admin2.png](http://www.juturna.ca/images/systemhelp2.7/admin2.png)" width="304" height="494"></p> |
|  | <p>Figure 2</p> |
|  | </div> |
|  | <div id="ash\_3.2"> |
|  | <h2>3.2 Managing Existing Users</h2> |
|  |  |
|  | <p>Left Clicking on "User Account Management", in the "System Administration" panel, will |
|  | display the "User Account Management Window" as shown in <a href="[#ash\_fig\_3](http://www.juturna.ca/admin/adminhelp#ash_fig_3)">figure 3</a>. On the left side of this |
|  | window the existing accounts are listed. By selecting an existing user, their information will |
|  | be displayed on the right side including the user name, role (administrator/volunteer) when the user account was |
|  | created, and any data |
|  | submitted. If you have administrator user role, you have the option to edit any of the selected |
|  | accounts details.</p> |
|  |  |
|  | <p>Left clicking on a user name will display the information originally |
|  | entered to register the user <a href="[#ash\_fig\_2](http://www.juturna.ca/admin/adminhelp#ash_fig_2)">(as in figure 2)</a>. You can alter any information in |
|  | the form and save it by left clicking "Update". You may also delete the user or reset their |
|  | password by left clicking either "Delete" or typing a new password in the "new password" field on the right hand side.</p> |
|  | <p> |
|  | <img alt="" id="ash\_fig\_3" src="[/images/systemhelp2.7/admin3.png](http://www.juturna.ca/images/systemhelp2.7/admin3.png)" width="775" height="529"></p> |
|  | <p>Figure 3</p> |
|  | </div> |
|  | <div id="ash\_3.3"> |
|  | <h2>3.3 Approving Pending User Account Requests</h2> |
|  | <p>Left Clicking on "User Account Management", in the "System Administration" panel, will |
|  | display the "User Account Management Window" as shown in <a href="[#ash\_fig\_3](http://www.juturna.ca/admin/adminhelp#ash_fig_3)">figure 3</a>. |
|  | As shown in <a href="[#ash\_3.2](http://www.juturna.ca/admin/adminhelp#ash_3.2)">3.2 Managing Existing Users</a>, by selecting an existing user, their account details |
|  | are shown on the right-side. One of the account details is "status". The drop-down allows for |
|  | an account status to be changed by users with administrative privileges. |
|  | Accounts are created from potential new users who have visited the |
|  | Juturna interface and want actively participate in either administrating or |
|  | volunteering to enter data. To change the status of an account select the user, |
|  | change the status drop-down, and left-click the update button.</p> |
|  | </div> |
|  | </div> |
|  | <!--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Section 4 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* --> |
|  | <div id="ash\_4.0"> |
|  | <h1>4.0 Group Name Management</h1> |
|  | <p>The "Group Name Management" link is for creating new "groups", and making |
|  | changes to existing "groups" from a master list. </p> |
|  |  |
|  | <p>Left clicking on "Group Name Management" in the "System Administration" window, |
|  | will display a list of existing "Groups", "Group Leaders" and options to "show", |
|  | "edit" or "destroy" each. Left clicking "Show" will display the group name, |
|  | leader name, and description in a read only format. Left clicking "edit" will |
|  | allow you to edit this information in an open form. Left clicking "Destroy" will |
|  | delete the selected group along with all data. The administrator will be asked |
|  | once if this is a desirable outcome.</p> |
|  | <p><b>Warning: </b>After left clicking "Okay" |
|  | the data will be deleted and not retrievable. </p> |
|  | <p>Creating a new Group Name: Below the list of Group Names is a "New Group |
|  | Name" link. Left clicking on this link will display a form for creating a new |
|  | group name in the Map Viewer. Fill in the information for group name, leader |
|  | name, and a description of the group. Click the "Create" button. The information |
|  | you have provided will be displayed in a read only format. </p> |
|  | </div> |
|  | <!--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Section 5 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* --> |
|  | <div id="ash\_5.0"> |
|  | <h1>5.0 Using System Administration Tools</h1> |
|  | <div id="ash\_5.1"> |
|  | <h2>5.1 Watershed Management</h2> |
|  | <p>Left clicking on "Watershed Management", in the "System Administration" panel, |
|  | will display a list of all watersheds in the Map Viewer window. To the right of |
|  | each Watershed are three options: "Show", "Edit", and "Destroy". Left clicking "Edit" allows the administrator to change the name, description, and colour |
|  | code of the watershed by manually editing the information and left clicking the |
|  | "Update" button at bottom left (similar to figure 4 below). Left clicking "Show" will |
|  | display the same information in a read only format. Left clicking "Destroy" |
|  | will delete the selected watershed along with all data. The administrator will |
|  | be asked once if this is a desirable outcome.</p> |
|  | <p><b>Warning: </b>After left clicking "Okay" the data will be deleted and not retrievable. </p> |
|  |  |
|  | <!-- <p><b>The color code: </b>Is a way of |
|  | distinguishing one watershed from another in the Map Viewer. When editing or |
|  | creating a new watershed left clicking on the drop down menu to the right of |
|  | "Color Code". This will |
|  | display a wide pallet of colours. Each colour has a corresponding four character |
|  | code beginning with a # sign. This will be displayed in the text box to the |
|  | left of the dropdown menu. Colours can also be selected by entering the code in |
|  | the text box first. The selected colour will be assigned to the new, or edited watershed in the Map Viewer. </p> --> |
|  |  |
|  | </div> |
|  | <div id="ash\_5.2"> |
|  | <h2>5.2 Creating a New Watershed</h2> |
|  | <p>Create a new Watershed when you have data from a specific location that does |
|  | not fall within an existing watershed.</p> |
|  |  |
|  | <p>Below the list of Watersheds is a "New Watershed" link. Left clicking this |
|  | link will display the form in <a href="[#ash\_fig\_4](http://www.juturna.ca/admin/adminhelp#ash_fig_4)">figure 4</a>. Enter the name, description. Left click the "Create" button to finish. The new |
|  | Watershed will now be displayed in the Watershed list under "Watershed |
|  | Management".</p> |
|  | <p><b>Note: </b>The new Watershed will not be defined spatially until |
|  | the polygon shape file of the |
|  | new Watershed is uploaded. </p> |
|  | <h2><img alt="" id="ash\_fig\_4" src="[/images/systemhelp2.7/admin4.png](http://www.juturna.ca/images/systemhelp2.7/admin4.png)" width="441" height="307"></h2> |
|  | <p>Figure 4</p> |
|  | </div> |
|  | <div id="ash\_5.3"> |
|  | <h2>5.3 Subwatershed Management</h2> |
|  | <p>Left Clicking on "Subwatershed Management", in the "System Administration" panel, will display a list of all subwatersheds |
|  | in the Map Viewer window. The main Watershed is listed first (far left side), followed by the Subwatershed name, and three options |
|  | to the right of each Subwatershed: "Show ', "Edit". "Destroy". The "Show", "Edit", and "Destroy" options have the same function as described |
|  | above (<a href="[#ash\_5.1](http://www.juturna.ca/admin/adminhelp#ash_5.1)">See 5.1 Watershed Management</a>). However, the administrator has the option to work |
|  | with or upload a "Shape File (.shp)", an "Index File (.shx), and a Database File (.dbf). The administrator can choose to upload files |
|  | by left clicking the "Choose file" button to the right of either File description. The chosen file will then be displayed in the text |
|  | box to the left of the "Browse" button. Typing in a file name in the text box is not an option. All files must |
|  | be selected from a list presented in the browser window.</p> |
|  |  |
|  | <!-- <p><b>Shape Files: </b></p> |
|  | <p><b>The following information is sourced from the Wikipedia file: <a href="http://en.wikipedia.org/wiki/Shapefile">http://en.wikipedia.org/wiki/Shapefile</a></b></p> |
|  | <p><b>Please follow that link for further information on shape files.</b></p> |
|  | <p>A shapefile is a digital vector storage format for storing geometric location and associated attribute information. This format |
|  | lacks the capacity to store topological information. It is possible to read and write shapefiles using a variety of free and non-free programs.</p> |
|  | <p>Shapefiles are simple because they store primitive geometrical data types of points, lines, and polygons. These primitives are of |
|  | limited use without any attributes to specify what they represent. Therefore, a table of records will store properties/attributes for |
|  | each primitive shape in the shapefile. Shapes (points/lines/polygons) together with data attributes can create infinitely many representations |
|  | about geographical data. Representation provides the ability for powerful and accurate computations.</p> |
|  | <p>A shapefile is actually a set of several files. Three individual files are <i>mandatory</i> to store the core data that comprises a shapefile: |
|  | ".shp", ".shx", ".<a href="http://en.wikipedia.org/wiki/Dbf" title="Dbf">dbf</a>", and other extensions on a common prefix name (e.g., "lakes.\*"). |
|  | The actual <i>shapefile </i> relates specifically to files with the ".shp" extension, but alone is incomplete for distribution, as the other supporting files are required.</p> --> |
|  |  |
|  |  |
|  | </div> |
|  | <div id="ash\_5.4"> |
|  | <h2>5.4 Creating a New Subwatershed</h2> |
|  |  |
|  | <p>Below the list of Subwatersheds is a "New Subwatershed" button. Left clicking this button will |
|  | display the blank form in figure 5. All Administrator functions are as |
|  | described in <a href="[#ash\_5.1](http://www.juturna.ca/admin/adminhelp#ash_5.1)">5.1</a>, <a href="[#ash\_5.2](http://www.juturna.ca/admin/adminhelp#ash_5.2)">5.2</a>, and <a href="[#ash\_5.3](http://www.juturna.ca/admin/adminhelp#ash_5.3)">5.3</a>. Notice that you must select |
|  | a Watershed in the drop down menu of "Watershed Name", then manually type |
|  | in a name of the newly created Subwatershed. If the Subwatershed that you wish to create does not fall within |
|  | the boundaries of the given Watersheds in the drop down menu, return to |
|  | "Watershed Management" (<a href="[#ash\_5.1](http://www.juturna.ca/admin/adminhelp#ash_5.1)">5.1</a>), and "Creating a New Watershed" (<a href="[#ash\_5.2](http://www.juturna.ca/admin/adminhelp#ash_5.2)">5.2</a>). Once added, |
|  | by filling out the form in <a href="[#ash\_fig\_5](http://www.juturna.ca/admin/adminhelp#ash_fig_5)">Figure 5</a> and left clicking the "Create" button, the Subwatershed will appear |
|  | in the "Subwatershed Management" list, in alphabetical order of Watershed.</p> |
|  | <p>Note: When creating a New Subwatershed that falls |
|  | under the category of an existing Watershed, you are not obligated to choose |
|  | the Color Code. This will automatically set the Color Code to the existing code |
|  | of the host Watershed, although the color displayed in the dropdown menu will |
|  | remain in default (black). However, if creating a Subwatershed |
|  | under a new or existing Watershed where no colour code has been assigned, the |
|  | color code chosen for the subwatershed will apply not |
|  | only to that Subwatershed but to the Watershed as a |
|  | whole.</p> |
|  | </div> |
|  |  |
|  | <p><img alt="" id="ash\_fig\_5" src="[/images/systemhelp2.7/admin5.png](http://www.juturna.ca/images/systemhelp2.7/admin5.png)" width="431" height="324"></p> |
|  | <p>Figure 5</p> |
|  | </div> |
|  | <!--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Section 6 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* --> |
|  | <div id="ash\_6.0"> |
|  | <h1>6.0 System Backup</h1> |
|  |  |
|  | <p>Left clicking on "System Backup" in the "System Administration" panel will |
|  | display two tables in the "System Backup Settings" page in the Map Viewer (See <a href="[#ash\_fig\_6](http://www.juturna.ca/admin/adminhelp#ash_fig_6)">figure 6</a>). The |
|  | administrator has the option to backup the entire Database, and/or all System |
|  | Files to one larger file on the server. For both Database Backup and System Files Backup the administrator may |
|  | change the folder name, and describe the filename, although both have default |
|  | settings of "database" for the Database Backup, "system" for the System Files |
|  | Backup. The file name automatically defaults to the present date. </p> |
|  |  |
|  | <p>Below the File name is a checked box labelled "Backup on Schedule". The |
|  | administrator has the option to check or uncheck this box and select from the |
|  | dropdown menu below either "Daily", "Weekly", or "Monthly" automatic backup. |
|  | After making any changes to the "System Backup Settings" page the administrator |
|  | may left click the "Save Settings" button, or choose to left |
|  | click the "Run Backup Immediately" button at the bottom of each of the two tables. This second option will run the |
|  | backup immediately and continue to back up the Database or System Files as |
|  | specified by you. </p> |
|  |  |
|  | <h1><img alt="" id="ash\_fig\_6" src="[/images/systemhelp2.7/admin6.png](http://www.juturna.ca/images/systemhelp2.7/admin6.png)" width="732" height="318"></h1> |
|  | <p><b>Figure 6: </b>Backup options</p> |
|  | </div> |
|  | <!--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Section 7 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* --> |
|  | <div id="ash\_7.0"> |
|  | <h1>7.0 System Parameters</h1> |
|  | <div id="ash\_7.1"> |
|  | <h2>7.1 Navigating System Parameters</h2> |
|  | <p>Left clicking "System Parameters" in the "System Administration" panel will |
|  | display a list of "New Juturna System Parameters" (See <a href="[#ash\_fig\_7](http://www.juturna.ca/admin/adminhelp#ash_fig_7)">Figure 7</a>). Metadata is |
|  | data providing information about one or more pieces of data. In Figure 7 the |
|  | fillable forms allow you to edit the images by browsing for new file images, |
|  | edit the URL associated with each image, and enter an "Image tip" (an |
|  | explanation of the image that will be displayed when the mouse hovers over the |
|  | image). Clicking the "Create" button will store any changes made to System |
|  | Parameters. </p> |
|  | <p><img alt="" id="ash\_fig\_7" src="[/images/systemhelp2.7/admin7.png](http://www.juturna.ca/images/systemhelp2.7/admin7.png)" width="459" height="537"></p> |
|  | <p>Figure 7</p> |
|  | </div> |
|  | <div id="ash\_7.2"> |
|  | <h2>7.2 Adding new Metadata Parameters</h2> |
|  | <p>At the moment, it is only possible to change or add two types of Metadata: |
|  | parameters for the logos along the header board, and the Webmaster contact |
|  | information. </p> |
|  | </div> |
|  | </div> |
|  | <!--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Section 8 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* --> |
|  | <div id="ash\_8.0"> |
|  | <h1>8.0 Uploading System Watersheds Polygons</h1> |
|  | <p>What is a Polygon?: In a computer graphics system a polygon is a |
|  | two-dimensional shape that is modelled and stored within its database. </p> |
|  | <p>Left clicking on "System Watersheds Polygons Upload" will display the form |
|  | shown in <a href="[#ash\_fig\_8](http://www.juturna.ca/admin/adminhelp#ash_fig_8)">figure 8</a> below. The administrator has the option to work with or upload |
|  | a "Shape File (.shp)", an "Index File (.shx), and |
|  | a Database File (.dbf). The administrator can choose to upload files by left |
|  | clicking the "Browse" button to the right of either File description. The |
|  | chosen file will then be displayed in the text box to the left of the "Browse" |
|  | button. Typing in a file name in the text box is not an option. All files must |
|  | be chosen from an existing list. Enter the "Watershed Field Name" and a short description of the Polygon. When all information is complete |
|  | left click the "Create" button.</p> |
|  | <p><img alt="" id="ash\_fig\_8" src="[/images/systemhelp2.7/admin8.png](http://www.juturna.ca/images/systemhelp2.7/admin8.png)" width="678" height="436"></p> |
|  | <p>Figure 8</p> |
|  | </div> |
|  | <!--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Section 9 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* --> |
|  | <div id="ash\_9.0"> |
|  | <h1>9.0 Uploading System Subwatersheds Polygons</h1> |
|  | <p>What is a Polygon?: In a computer graphics system a polygon is a |
|  | two-dimensional shape that is modelled and stored within its database. </p> |
|  | <p>Left clicking on "System Subwatersheds Polygons Upload" will display the form |
|  | shown in <a href="[#ash\_fig\_9](http://www.juturna.ca/admin/adminhelp#ash_fig_9)">figure 9</a> below. The administrator has the option to work with or upload |
|  | a "Shape File (.shp)", an "Index File (.shx), and |
|  | a Database File (.dbf). The administrator can choose to upload files by left |
|  | clicking the "Browse" button to the right of either File description. The |
|  | chosen file will then be displayed in the text box to the left of the "Browse" |
|  | button. Typing in a file name in the text box is not an option. All files must |
|  | be chosen from an existing list. Enter the Watershed and Subwatershed field |
|  | names and a short description of the Polygon. When all information is complete |
|  | left click the "Create" button.</p> |
|  | <p><img alt="" id="ash\_fig\_9" src="[/images/systemhelp2.7/admin9.png](http://www.juturna.ca/images/systemhelp2.7/admin9.png)" width="731" height="466"></p> |
|  | <p>Figure 9</p> |
|  | </div> |
|  | <!--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Section 10 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* --> |
|  | <div id="ash\_10.0"> |
|  | <h1>10.0 Juturna Core Functions</h1> |
|  | <p>For a Description of Juturna Core Functions associated |
|  | with editing station information under "My Station List" in the "System Management" |
|  | window please refer to "System Help" under |
|  | <a href="[/admin/systemhelp?#sh\_5.0](http://www.juturna.ca/admin/systemhelp?#sh_5.0)">5.0 "Juturna Core Functions"</a></p> |
|  | </div> |
|  | <!--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Section 11 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* --> |
|  | <div id="ash\_11.0"> |
|  | <h1>11.0 Recalculating Overall Assessments</h1> |
|  | <p>Left-clicking the "Recalculate Overall Assessments" Link will |
|  | recalculate the analysis of stream health based on benthic macroinvertebrate |
|  | data associated with monitoring stations in the Juturna system. Because new data can be created for an existing station by multiple users (See |
|  | 5.1-5.5 in "System Help" under |
|  | <a href="<http://www.juturna.ca/admin/systemhelp?#sh_5.0>">Juturna Core Functions</a>), it is important that a system administrator periodically re-calculate |
|  | the overall assessments. This will ensure that all |
|  | assessments are up to date. For |
|  | example, new benthic data will alter the station report, changing the benthic macroinvertebrate |
|  | dataset which may be change the stream health from "unimpaired" to "impaired". </p> |
|  | </div> |
|  | <!--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Section 12 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* --> |
|  | <div id="ash\_12.0"> |
|  | <h1>12.0 Versioning</h1> |
|  | <p>A version tracking system has been established to track changes in the |
|  | Juturna web-GIS that arise from maintenance (e.g., bug fixes) and system |
|  | development. Please contact <a href="<mailto:bunchmj@yorku.ca?subject=Juturna>">Prof. |
|  | Martin Bunch</a> for more information.</p> |
|  | </div> |
|  | <!--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Section 13 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* --> |
|  | <div id="ash\_13.0"> |
|  | <h1>13.0 Setting up a New Juturna Server</h1> |
|  | <p>Anyone wishing to establish a new Juturna server is encouraged to contact |
|  | <a href="<mailto:bunchmj@yorku.ca?subject=Juturna>">Prof. Martin Bunch</a>. One of |
|  | the simplest ways to establish a new Juturna system to serve your project is to |
|  | establish a server or virtual server, prepare it for the Juturna system, and |
|  | apply an image of the system which you can then modify to suit your needs. Also, |
|  | Juturna is a Free and Open Source Software (FOSS) project licensed under the |
|  | <a href="<http://www.gnu.org/licenses/gpl.html>">GNU General Public License</a>. |
|  | The source code for the Juturna project is available at |
|  | <a href="<http://git.juturna.ca/>">http://git.juturna.ca</a>. (To download |
|  | the entire directory of source code subdirectories and files, use the command |
|  | "git clone git@git.juturna.ca:juturna2\_7.git".</p> |
|  | </div> |
|  | </body> |
|  | </html> |