

## Historic Pittsburgh Maps - 3 - Mounting Online

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*-updated some paths, some edits for clarity*

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## 1. Loading Maps Onto the Unix Server

For the final processes, the maps need to be loaded onto Atlantis. Make a directory in `/usr/local/dlxs/prep/maps/` based on the map ID. Then copy the map image files, by SSH file transfer to the directory you created:

```
/usr/local/dlxs/prep/maps/mapid/
```

## 2. Compressing the Maps

Change to the directory where the maps are stored (using a map ID of `04v02a11` as an example).

```
cd /usr/local/dlxs/prep/maps/04v02a11
```

There is a perl script that will transform all of the TIFF files in the directory into Mr.SID files, and also create the thumbnail versions necessary for navigation. From the directory that contains the maps, run the script by typing its full path:

```
/usr/local/dlxs/prep/maps_sids_and_thumbs.pl
```

Ignore the error message that appears as each map is compressed, and once again get a cup of coffee and smoke 'em if you got 'em. Compressing these files takes a while.

Copy the resulting files to their final home.

```
cp *.sid /usr/local/images/maps/  
cp thumbs/*.jpg /usr/local/images/maps/thumbs/
```

### 3. Creating the linkable index map using *MapEdit*.

Back on the Windows machine now. Open the TIFF version of the index map in *Adobe PhotoShop*.

Convert the tiff into jpg, and re-scale the image to approximately 650 pixels on the long side. Save the resulting jpg to W:\maps\

Using *Notepad*, or another plain-text editor, open

W:\templates\indexmaptemplate. Insert the filename of the index map into the <imgsrc> element in your new html document. Only use lower case letters.

*Example:* <img src ="04v02ind.jpg">

Save the template as 04v02ind.html in W:\maps\.

Open this new 04v02ind.html file in *MapEdit*.

A "Select Inline Image" box will appear.

Click on 04v02ind.jpg and the "OK".

Click on the red triangle ("*add polygons*") in the toolbar. This will allow you to trace the borders of a plate on the index map. Left click on your mouse when you want to trace in a different direction. Right click on your mouse when done.

Note that some volumes have double plates. A horizontal or vertical line will have to be traced through a single plate in order to separate the "a" side from the "b" side.

When tracing is finished, an "*Object URL*" box will appear. Type in the name of the corresponding map plate when it asks for "URL for clicks on this object."

*Example:* Type in 04v02p01. If the plate is an "a" or "b" side plate, type in 04v0201a or 04v0201b.

Use only lower case letters.

In the "alt text" box, type in the plate number.

*Example:* Type in Plate 1, Plate 2, etc.

Click OK.

Save.

Repeat tracing and naming for all of the outlined plates on the index map.

When the tracing of all the plates has been completed, open the `index.html` file in *Emacs*. Use the *Query Replace* feature in the *Search Menu* to replace all `href="` lines with `href="/cgi-bin/maps/showmap.pl?client=maps&image=`

Include the title of the map volume at the top of the `ind.html` page. Also include links to the legend and any other additional map (such as a sewer map) that should be linkable from this page.

To test the links, ssh transfer the `ind.html` and the `ind.jpg` to `//Atlantis/web/maps`. Have a staff member or student test all links and note any problems.

When all is fixed, ssh transfer the files to `bigfoot/web/maps`. Add links from the Main Maps Page to the new `ind.html` page. Highlight these additions on the Main Maps Page with a "new" flag. Also, you should make sure that an item is added to the Historic Pittsburgh "news" page.

#### **4. Transferring the Database to the Web Server**

When data collection is finished and proofed for a particular map volume, the entire database will need to be exported from Access, transferred to the web server, and imported into MySQL.

The first step, exporting the database, should be done *before* any new map data for a different volume is added (because it will appear in search results online). To export the database, open the database file in Access. From the main window, go to the "Modules" section. Select the module called "exportSQL" by double-clicking. The module will open in a VisualBasic editor, and you should see the code of the module on the screen. You don't have to worry about that; just look for the "play" button (a triangle, as in a cassette deck) on the toolbar. Click the button, and make the module run. The module will create a text file containing SQL statements to completely recreate and fill the database. This file is called "esql\_add.txt", and by default it is placed in `C:\TEMP\`. The export

module also creates a file called "esql\_del.txt" which contains SQL statements to delete the entire database (necessary before re-creating it using the "add" file).

I usually re-name the "add" file to include the date and the subject, and to indicate that it is a SQL file.

*Example:* 2003-01-23maps.sql

Then, copy the file (and the "del" file, too) over to the webserver, using SSH file transfer. The database should go here:

```
/usr/local/dlxs/databases/maps/
```

Next, get to a command prompt on the web server. Change directories to be in the location where you've just placed the file (as above). Issue the following commands, first to delete the existing database, and then to re-create it with the newly exported file:

```
Mysql -u username -p maps < esql_del.txt
```

```
Mysql -u username -p maps < 2003-01-23maps.sql
```

The first command should take only a second; the second command takes a while. After the command executes, the database should be ready to go, and if the HTML pages for the new map are already loaded, you can use them to make sure they pull from the database correctly.

The final steps are to link to the map from the maps "browse" page, to add announcements to the maps Index page and the HP news page, and to take the map off of the "future additions" page if necessary.