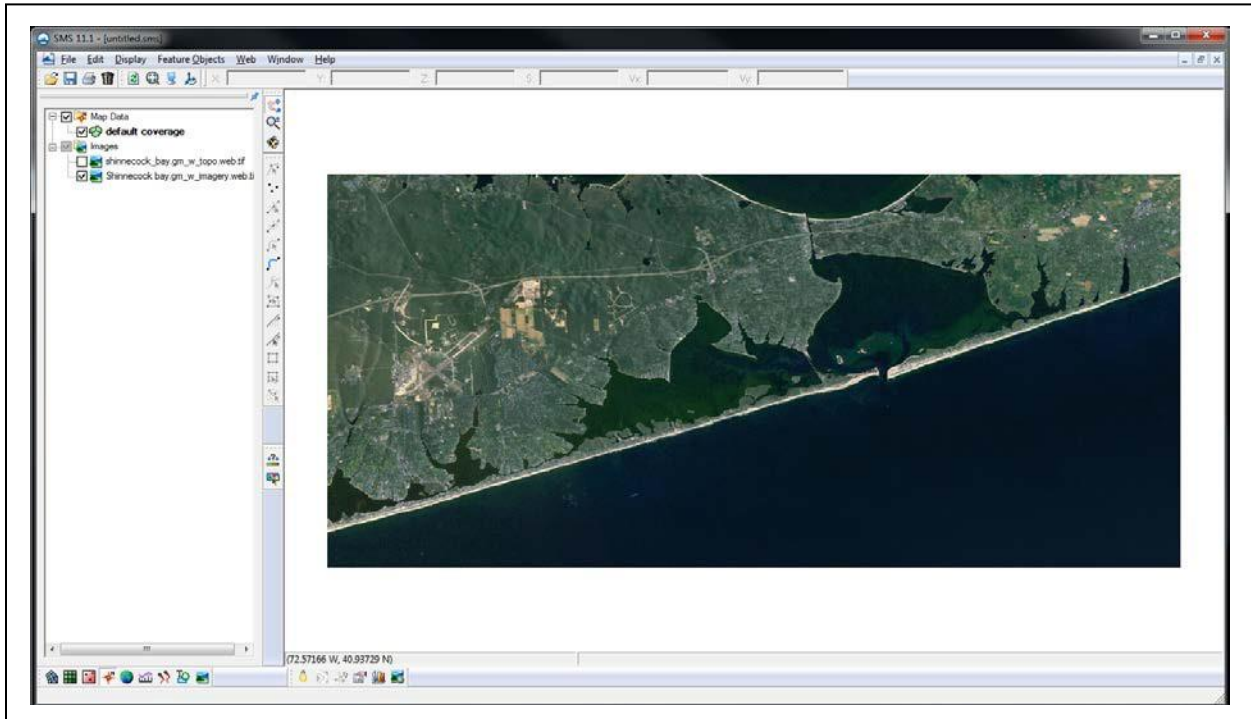*SMS 12.2 Tutorial*
Import from Web

Objectives

This lesson is designed to give an overview of with the *Importing from Web* option offered by SMS. This option connects SMS to a web based program that adds additional functionality to the SMS program. The two programs interact through an internet connection and allow accessing satellite photographs easily and quickly.

This tutorial will review the basic skills concerning how to use the *Import From Web* option.

Prerequisites
- None

Requirements
- None

Time
- 15-30 minutes

1   What does the Import from Web option do for SMS?

The Import from Web options adds an easier way to obtain images from the internet to use as backgrounds for SMS projects. SMS is able to connect to TerraServer and can retrieve selected photographs or maps of just about any location desired. Listed below are the two specific file types that can be obtained through using this option:

- TerraServer aerial photo

- TerraServer topo

2   Importing a TerraServer Aerial Photo

A TerraServer aerial photo can be imported into SMS as an image to serve as a background for a project. This section will instruct how to import and save an aerial photo.

2.1   Selecting the location of the aerial photo

1. Open a new project in SMS.   If another project has been opened in SMS, select *File* | **Delete All**. If asked if it's okay to delete all data, select **Yes.** This will delete all information from SMS and give a fresh screen.

2. Select *Web* | **Import from Web...** The *Virtual Earth Map Locator* dialog will appear.

From here, the *Virtual Earth Map Locator* tools are used to find the location of an aerial photo to import. For this tutorial, use the location: Shinnecock Bay, Long Island, NY.

3. In the *Virtual Earth Map Locator* dialog check on the *Locator* tool. This will open a toolbar on the screen.

4. In the toolbar type "Shinnecock Bay" in the *What* field, and "Long Island, NY" in the *Where* field. Then click **Find**.

5. Change the type of view to *Aerial* and turn *Labels* off.

6. Once having found the location, use the *Navigation tool* to center the bay in the window and zoom in to a comfortable view where the entire bay fits the screen nicely. It should look like the image below (Figure 1).

7.

Figure 1   Shinnecock Bay

8. Click the **OK** button in the lower right corner of the screen. Doing this causes SMS to take the last image that was on the screen and allows saving it in a few ways. A dialog called *Data Service Options* will appear.

2.2   Saving the image

1. In the *Data Service Options* dialog, notice the five file options in the spreadsheet. The first option is a *World Imagery* aerial photo. Select this option and then click **OK**.

2. The *Save Web Services Data File(s)* dialog will appear. Browse to the desired location to save the file, enter "shinnecock_bay" as the *File name*, and click **Save**.

3. The next dialog that appears shows the complete path of the file will be saved and shows the extension of the file. Please note that since this file is an aerial file, it ends with the extension *.imagery.web.tif. The other image types have their own unique file extensions to help differentiate between them all. Click the **Yes** button to continue.

4. A prompt to select a projection for the file will appear. Click **OK.**

5. In the *Select Projection* dialog, click **OK** to accept the default geographic projection settings.

6. In the *Display Projection* dialog, click **OK** to accept the default settings.

7. The *Image Pixel Scale* dialog will appear to ask at what scale for SMS to save the file. There will be a suggested scale already given, but a different scale can be selected if desired. Just remember that the lower the scale the more detailed the image and usually it will take more time to save. Leave the scale set at the

© Aquaveo.com 2017

suggested level and the click **OK** to exit the dialog.

8. Next, SMS will create the file and load the image into the Graphics Window. If prompted to create pyramids for the image, click **Yes,** and the image will load to the screen.

3   Importing a World Topographic Image

A World topographic image can be imported into SMS to serve as a background for a project. This section will instruct on how to import and save a topographic image. Many of the steps are similar to what was done in section 2 of the tutorial. Please complete all steps.

3.1   Selecting the location for the topographic image

1. Open a new project in SMS. To do this, select *File |* **Delete All**. Click **Yes** to continue. This will delete all information from SMS and give a fresh screen.

2. Select *Web |* **Import from Web...**. The *Virtual Earth Map Locator* dialog will appear.

3. In the *Virtual Earth Map Locator* dialog check on the *Locator* tool. This will open a toolbar on the screen.

4. Type "Shinnecock Bay" in the *What* field, and "Long Island, NY" in the *Where* field. Then click **Find**.

5. Once having found the location, use the *Navigation tool* to center the bay in the window and zoom in to a comfortable view where the entire bay fits the screen nicely. It should appear similar to Figure 2 below.
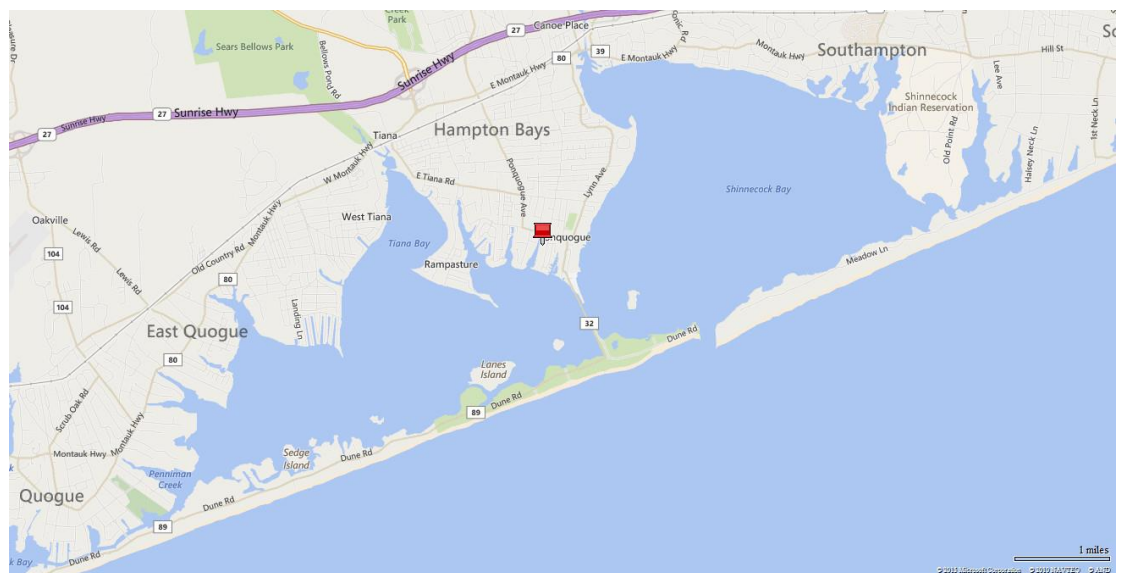

Figure 2   Shinnecock Bay

6. Click the **OK** button in the lower right corner of the screen. The *Data Service Options* dialog will appear.

3.2 Saving the image

1. In the *Data Service Options* dialog, review the five file options in the spreadsheet. The third option is a *World Topo Map*. Select this option and then click **OK**.

2. The *Save Web Services Data File(s)* dialog will appear. Browse to the desired location to save the file, enter "shinnecock_bay" as the *File name*, and click **Save**.

3. The next dialog that appears will show the complete path of where the file is being saved. Please note that since this file is a topographic image, it ends with the extension *.topo.web.tif. The other image types have their own unique file extensions to help differentiate between them all. Click **Yes** to continue.

4. A prompt to select a projection for the file will appear. Click **OK.**

5. In the *Select Projection* dialog, click **OK** to accept the default geographic projection settings.

6. In the *Display Projection* dialog, click **OK** to accept the default settings.

7. In the *Image Pixel Size* dialog, leave the scale set at the suggested level and the click **OK** to exit the dialog.

8. Next, SMS will create the file and load the image into the Graphics Window. If prompted to create pyramids for the image, click **Yes,** and the image will load to the screen.

4   Conclusion

This concludes the *Import from Web* tutorial. Continue to experiment with this part of SMS or continue on to the next tutorial.