The Carbon Project

Innovative Geosocial Solutions

GOS Dashboard

Enterprise GIS Dashboard for Geodata.gov

2009 NSDI CAP

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Overview

Geodata.gov contains a vast amount of geospatial data. With the help of a robust filtering/searching mechanism, they allow for retrieval of that data.

With the GOS Dashboard, we attempted to make things easier for the casual user. Instead of having to open a web browser to retrieve that data, you are now able to view changes in a feed form and access data of interest with a few button clicks - straight from your desktop.

Key features:

- ➢ GeoRSS data retrieval based on user filtering.
- ➢ Extensive filtering mechanism, built to mimic geodata.gov website both in style and functionality.
- ➢ Bounding box display in MS Virtual Earth map w/current RSS feed items.
- ➢ External application launching from the gadget (ex. Gaia)

Partners: US Army Corps of Engineers, The Carbon Project, NSDI Community

GOS Dashboard

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Overview

➢ To create the GOS Dashboard we use the GOS Portal flexible GeoRSS feed generator. Based on the options specified by the user, a query is generated and the result are returned in a GeoRSS format.

In the GOS Dashboard options we try to mimic the website's look and feel for search & filtering as much as possible in both style in functionality, making some improvements when necessary.

➢ There is a server limitation of only 20 results, and those results are displayed 4 at a time, much like the default RSS gadget that comes with Windows Vista. We also emulated the default RSS styling when displaying the current feed items as well as the paging capabilities.

➢ The open source desktop Gadget has been tested in both Windows Vista and Window 7 and works well in both environments.

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Installation

➢ Installation of Windows gadget is very easy. All that is required is a double click of the *GOSGadget.gadget* file and the following dialog will appear.


➢ Just click on *Install*, and the gadget will appear in your Vista sidebar. In Windows 7, there is no sidebar, so it will just appear on your desktop.

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Main Viewable Area

➤ The main viewable area displays 4 GeoRSS feed items in a list.

➤ You can navigate the list by pressing the up and down arrows in the navigator. The results are limited to 20 by the server.

➤ On the Virtual Earth map below, the bounding boxes of each feed item are displayed (each in a different color).

➤ When a feed item is selected (by clicking on the title), the map will display only the current feed item bounding box.

➤ Double-clicking the feed title will open up the metadata in a browser window.

Main Viewable Area
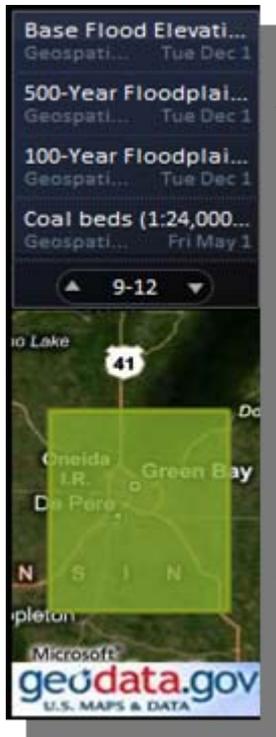
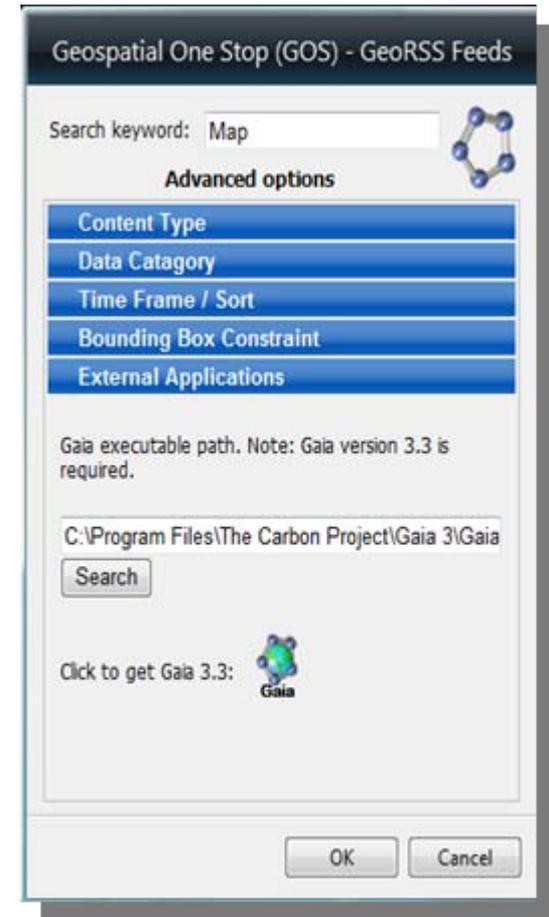List of feed items

Navigator control

Virtual Earth Map

Feed Bounding Box

Note: The gadget will increase its size when undocked. In Windows 7, there is a menu option to change sizes.

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Settings

➤ The Settings window is where feeds search parameters are set. The top of the dialog allows keywords to be set. The keyword defaults to "map" if nothing is specified.

➤ The other filtering options correspond very closely to those that appear on the *geodata.gov* website. To expand a filtering section, just click on the blue header bar.

➤ The external applications section allows feed items to be opened up with *Gaia*. If you don't have *Gaia* installed, a link to the free download site is provided. The path settings is by default the application default installation path. The *Search* button allows an automatic detection of the Gaia path.

Geospatial One Stop (GOS) - GeoRSS Feeds

Search keyword: Map

Advanced options

Content Type
Data Catagory
Time Frame / Sort
Bounding Box Constraint
External Applications

Gaia executable path. Note: Gaia version 3.3 is required.

C:\Program Files\The Carbon Project\Gaia 3\Gaia

Search

Click to get Gaia 3.3:

OK   Cancel

Flyout

➢ The flyout window appears when you click on a feed link. The flyout window displays the feed description (as sent from the server.) The description usually contains a few links that you can follow for additional information about the item.

➢ The icons below allow easy navigation to external services/applications that display the feed geospatial data. When not applicable the icons are grayed out.

➢ **Map** shows the data on a Geodata.Gov online ArcExplorer.

➢ **Globe** shows the data on ArcGlobe.

➢ **Gaia** adds the capabilities of the OGC service (if available) to the Gaia application.

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Workflow

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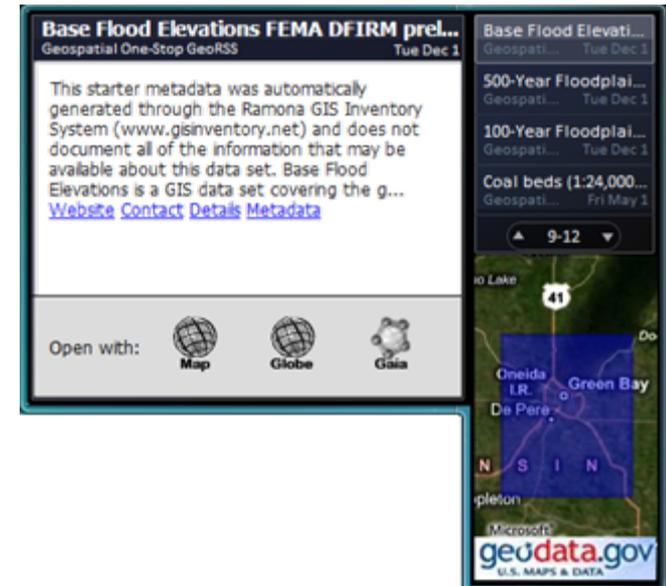
Project Online Presence

YouTube:

www.YouTube.com/thecarbonproject

Press Release (picked up by numerous blogs and news sites):

http://thecarbonproject.com/news_geodata.gov.php

Virtual Earth an Evangelist Blog (Chris Pendleton) :

http://blogs.msdn.com/virtualearth
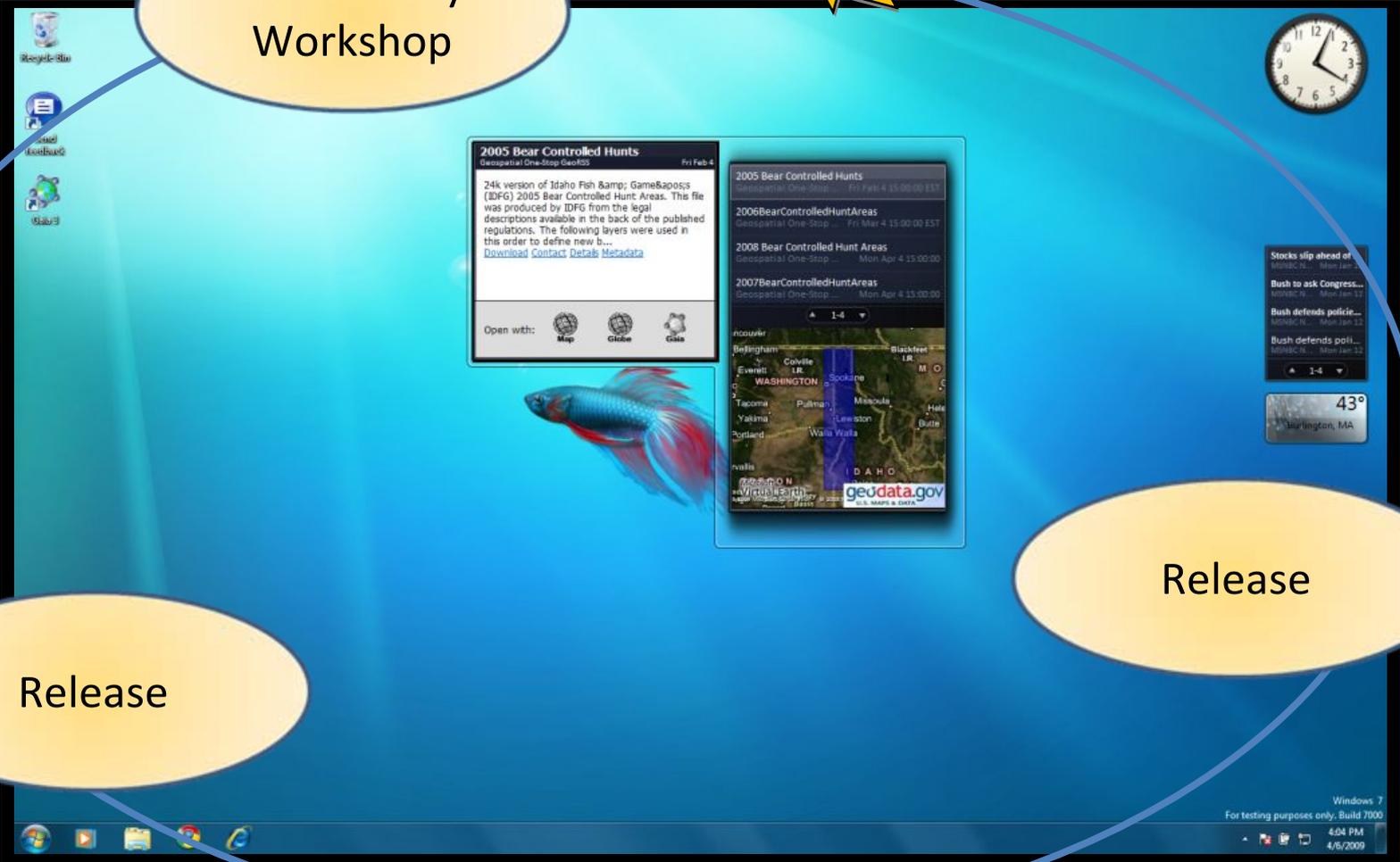
Community Forum (coming soon)

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Process

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