



## Welcome to the Disaster Resilience Visualization and Assessment Tool (DRVAT)

Hosted by the Pacific Disaster Center

### **DRVAT Release Notes:**

The following list contains general information that will assist the user in ensuring that the DRVAT website runs as smoothly as possible:

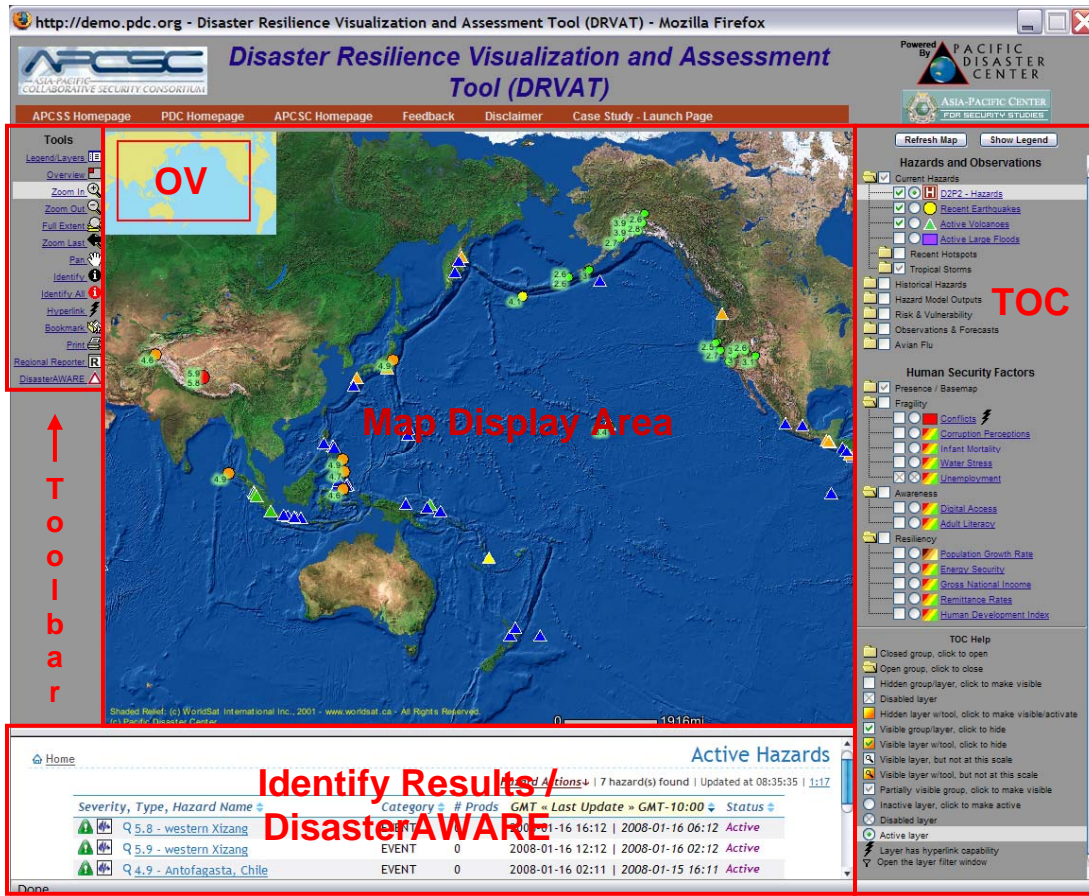
- DRVAT is powered by [ESRI's ArcIMS](#) map server and PDC's customizable map viewer engine and template system.
- DRVAT is best viewed using Microsoft Internet Explorer 5+, Firefox 2+, or compatible. It will not run properly using Netscape. This application uses JavaScript to load and manage the map viewer.
- Please disable any pop-up blockers, as these will interfere with some of the functionality of the DRVAT.
- The DRVAT Table of Contents (TOC) does not contain all of the symbols/icons shown in the map – the Legend should be used to identify all symbols.
- The Internet Explorer Image Toolbar may be turned off using the Right Mouse Button and disabled permanently using the Tools -> Internet Options Function.
- Too many visible data layers will cause overlap and a lengthy refresh time. Be aware of what, and how many layers are simultaneously visible.
- Keep in mind that there are resolution and scale dependencies with some data layers (e.g., imagery).
- Some tools and functionality, such as Bookmarks and DisasterAWARE, require a [MyPDC account](#) to access. [Registration](#) for MyPDC is free and open to the public. Additional privileges for DisasterAWARE, that allow users to create Hazards and Products, are also available but are granted on a case-by-case basis. For more information please submit a [feedback request](#).
- See also the [DisasterAWARE release notes](#) regarding version information related to the Hazards and Products interface.
- See also the [D2P2 release notes](#) regarding version information related to the Dynamic Data Processing and Publication dynamic data sets.
- See also the [Map Viewer Engine release notes](#) regarding version information related to the map viewer functionality.

### **DRVAT Interface and Navigation:**

A general overview of DRVAT functionality is presented here. The DRVAT interface contains five functional areas:

- 1) Map Display Area
- 2) Overview Map (OV)
- 3) Tool Bar
- 4) Identify Results / DisasterAWARE

5) Table of Contents (TOC)



**Toolbar:** The Toolbar offers numerous options to interact with the Map and the Data Layers in the TOC. Several tools are used for navigation purposes (zoom, pan, etc.), while others are used to display additional information about the data layers (attributes), create/view bookmarks, launch PDC’s DisasterAWARE, etc. A detailed explanation of each tool on the Toolbar is given below.

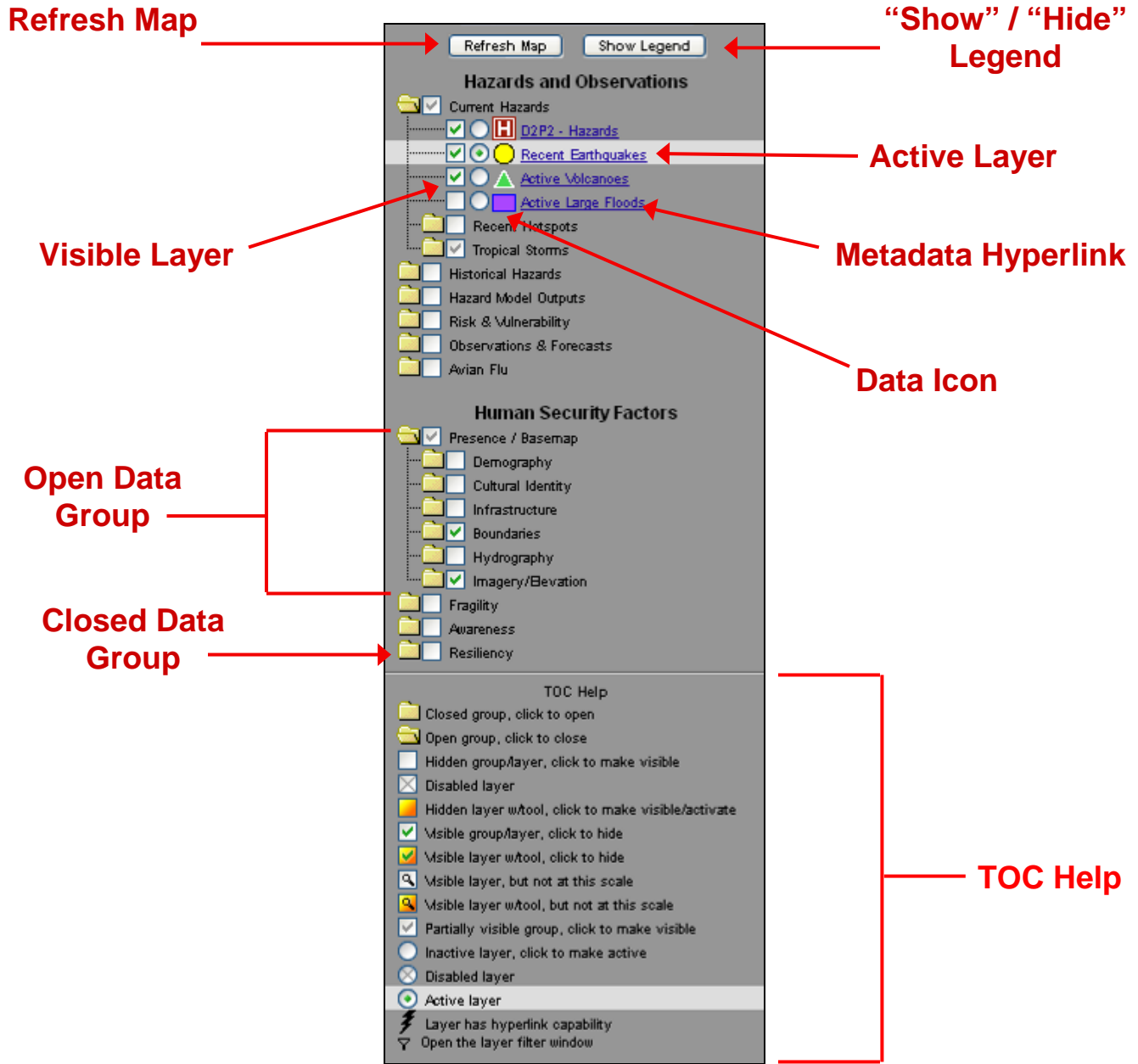
**Map Display Area:** Displays the map created by the user from the choice of data layers visible in the TOC, and can be modified by using tools in the Toolbar.

**Overview Map:** The OV Map displays the full extent of the map viewer with a red box indicating the extent of the current view.

**Identify Results:** This area displays attribute information for the active layer as a result of using the Identify Tool. This area shares the same space as DisasterAWARE.

**DisasterAWARE:** Provides access to PDC’s DisasterAWARE to registered users. General Hazard and Product read privileges are available to anyone with a [MyPDC account](#) which is free and open for public registration.


**Table of Contents:** The TOC is a folder structure composed of data layers, data symbols (icons), links to metadata, etc. The TOC allows the user to choose what is displayed in the map view. See below for a diagram of the components of the TOC.




**Refresh Map Button:** The Refresh Map Button should be used to refresh the map after the Visible Layers selections have been changed.

**Show/Hide Legend:** The Layers List contains the list of available layers that can be displayed in the DRVAT Map. To view a layer, make it Visible and hit the Refresh Map Button. In order to use the Identify, Find, Select, or Measure tools on a particular layer, that layer must be Active. The Legend contains the colors and symbology used in displaying features in the DRVAT Map. Use the Toggle Layers/Legend Button on the Tool Bar to toggle between the Layer List and the Legend.

**Visible Layer:** Specific data layers in the TOC may be chosen for viewing in the map frame. Next to each yellow folder and each data layer is a gray box  which may or may not contain a check mark. A checked gray box means the data layer is visible in the Map view. An unchecked box means the layer is not visible. A single click in a gray box will make the data layer visible or turn it off (once the Refresh Map button is clicked).

Note: If a gray box is checked next to a closed yellow folder,  this means that there are one or more data layers within the folder that are currently visible in the Map. Open the folder to see which layers are visible.

**Active Layer:** At any given time, there is only one active data layer. It appears highlighted in the TOC, with a black dot within a gray circle.  Any data layer with the exception of raster layers (Imagery) can be selected as the active layer by clicking on the gray dot. The significance of the active data layer is that specific tools on the Toolbar (e.g., the “Identify”) only work with one layer at a time, i.e. the Active layer.

**Metadata Hyperlink:** The Metadata Hyperlink opens the metadata abstract. Click on this link for additional information such as descriptions, contact information, and dates.

**Data Icon:** The data icon show representative symbology for the layer when it is displayed on the map. For full symbology definitions use the “Show/Hide Legend” button.

### **Additional DRVAT Buttons:**

**Feedback Button:** The Feedback Button should be used to give general feedback on the DRVAT application, to report problems, or to give suggested improvements.

**Help Button:** This document. The DRVAT Help document explains the interface and functionality of the DRVAT application.

**Case Study:** The Case Study guides a user through the functionality of the DRVAT, showing them how the Tool can provide a richer and more comprehensive vulnerability analysis of a given country or region,









through utilizing data on human security as well as the traditional PDC data on hazards and presence.

## **Tool Bar Icons:**

Generally speaking, tools in the toolbar fall into two categories based on function – *navigational* and *informational*:

- **Navigational** tools are used to adjust the view within the Map frame (e.g., Zoom, Pan).
- **Informational** tools are used to display details about the data layers, or answer questions about the data that is displayed in the Map view (e.g., Identify, DisasterAware).

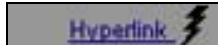
A tool is activated by clicking once on the tool name or icon. Only one tool can be selected at a time. The active tool will appear highlighted in the Toolbar.

<b>Tools</b>	
	<b>Legend/Layers:</b> Toggles between the Legend and the Layer list in the TOC (the same function as the “Show/Hide Legend button).
	<b>Overview:</b> Toggles the Overview Map on and off.
	<b>Zoom In (the active tool by default):</b> Zooms in to an area of the map.
	<b>Zoom Out:</b> Zooms out from an area clicked on the map.
	<b>Full Extent:</b> Zooms to the full extent of the map. This is the “fullest extent” or the greatest perspective that can be achieved using this tool.
	<b>Zoom Last:</b> Zooms to the previous extent of the map. Similar to the “Back” button of a web browser, but only toggles between the last two views. It is not necessary to click on the Map.
	<b>Pan:</b> Moves the map display in the direction that the mouse pointer is moved.
	<b>Identify:</b> Displays attribute information for the <i>active</i> data layer

feature or features that are selected on the Map. The Identify tool links all site components: the TOC, Toolbar, the Map, and Data Attributes.



**Identify All:** Displays attributes for all layers in the Map frame, not only the active layer. (This tool may be slow if many layers are visible.)



**Hyperlink:** Some data layers have the ability to hyperlink to additional information. These layers are denoted by the lightning bolt icon in the TOC (ex. Conflict). To use this tool make a layer with a Hyperlink visible and active in the TOC, then click the Hyperlink tool, and finally click on an area in The Map where data for that layer is present.



**Bookmark:** Allows the user to save specified map views in a similar manner to Internet Favorites. Each view is assigned a name, and may be viewed or deleted from the Bookmark list at any time. Note that the bookmark tool does not work with query results, buffers, filtered data layers, and other special tool applications will not be saved. (ex. Historical Earthquakes). Users must have a [MyPDC account](#), which is free and open to the public, to use the Bookmark Tool.



**Print:** Prints the current Map view.



**Regional Reporter:** Regional Reporter is a PDC custom tool that compiles information from multiple datasets and generates a report for a specific user-defined area. To use this tool, Zoom to a specific area on The Map, click the Regional Reporter tool, use your mouse to draw a box on the map for the area that you want a report to be created on, and click "Go". The report may take several minutes to finish, depending on your internet speed.



**DisasterAWARE:** DisasterAWARE increases the capacity of disaster managers to synthesize multiple data streams for critical early warning and quick decision support. The system integrates data from a variety of sources into an enterprise geospatial application for collaboration and analysis. For detailed help regarding Hazards and Products, see the [DisasterAWARE User Manual](#).