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Service

Veterinary
Services

Centers for
Epidemiology
And Animal
Health

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Emergency Management Response System's Mapping Module

Field Responder + ESRI's ArcGIS Explorer User Manual

Table of Contents

Section 1	Introduction	Page 4
Section 2	Starting ArcGIS Explorer	Page 4
Section 3	Using an Imported File within ArcGIS Explorer	Page 5
	3A...Importing a File	Page 5
	3B...Displaying a Map within ArcGIS Explorer	Page 9
	3C...Getting Directions or Finding a Location	Page 11

Scope of This Manual

The Veterinary Services' Emergency Management Response System's Mapping Module consists of three tools:

- Site Planner – helps you to quickly locate premises on maps, using a variety of search criteria.
- Field Responder – lets you import premises data into third-party software applications in order to customize/generate/view/print detailed maps for use by animal disease investigation personnel.
- Incident Analyzer – assists you in performing geographic visualization and analysis work for use in animal disease investigations.

This User Manual documents the procedures for using the Incident Analyzer toolset by walking you through an actual example.

Audience for This Manual

Users of the Veterinary Services' Emergency Management Response System's Mapping Module will generally fall into one of the following groups:

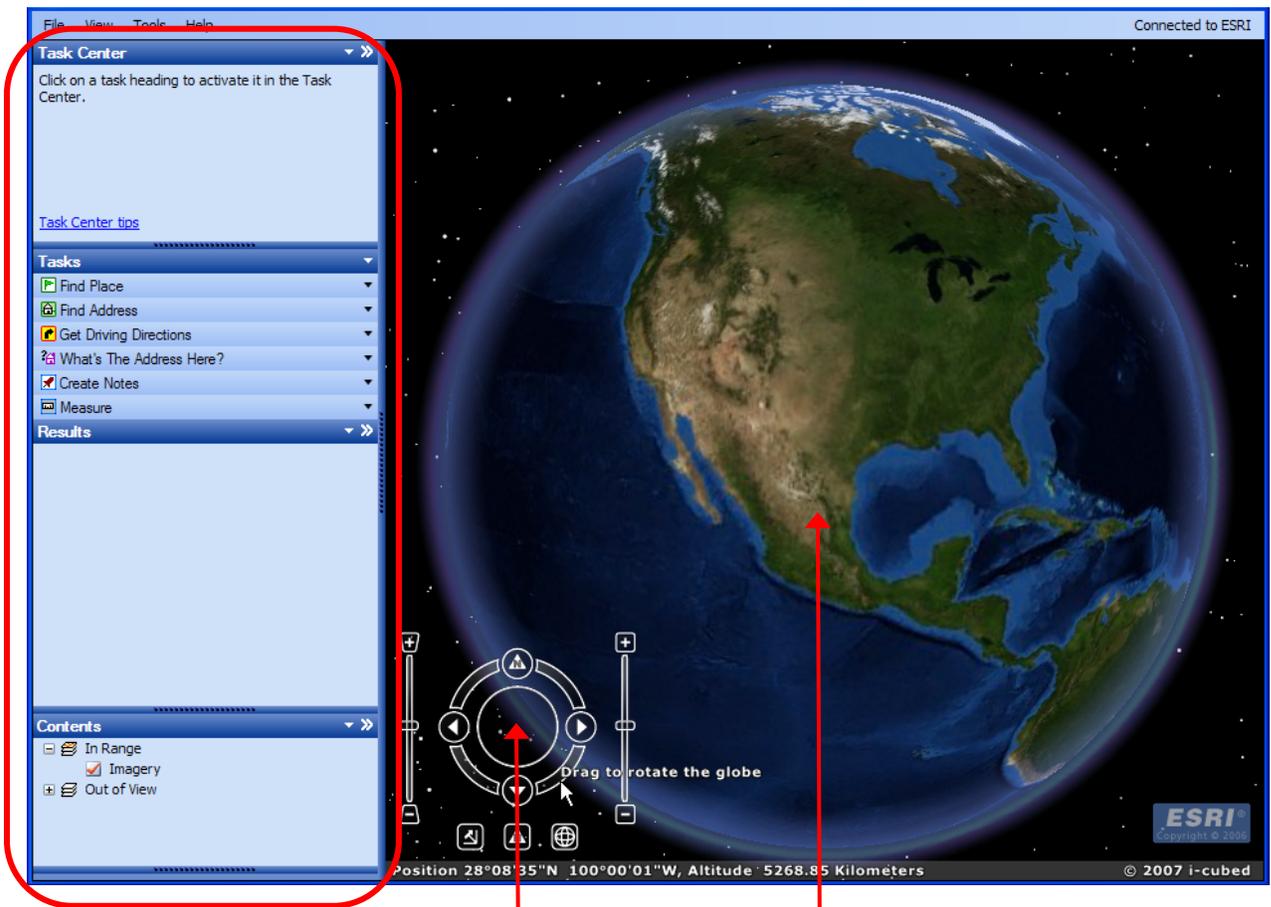
- Management – These are decision-making personnel (such as chiefs and leaders for emergency outbreak incidents and disease investigations) who are in charge of assigning resources and tasks for data-collection and field work. Management staff also generate reports for analysis and end-of-year reporting purposes.
- Data Collectors – These individuals are tasked to collect premises data (both spatial and non-spatial). Such personnel are usually equipped with mobile devices and navigation software to help them in locating premises for field visits.
- Analysts – These individuals perform data exploration/visualization work, generated web-based maps, and conduct spatial analysis/modeling, as needed.

Section 1: Introduction

This User Manual guides the user through the process of importing a file into ESRI ArcGIS Explorer 9.2 **build 450**. ArcGIS Explorer supports many file formats (csv, txt, jsp, etc.), but this User Manual focuses specifically on importing the jsp file format generated by the Emergency Management Response System's Mapping Module's Site Planner tool.

Section 2: Starting ArcGIS Explorer

1. Locate and double-click on the ArcGIS Explorer shortcut icon that is displayed on your computer desktop. The ArcGIS Explorer Main Screen (shown below) will appear.

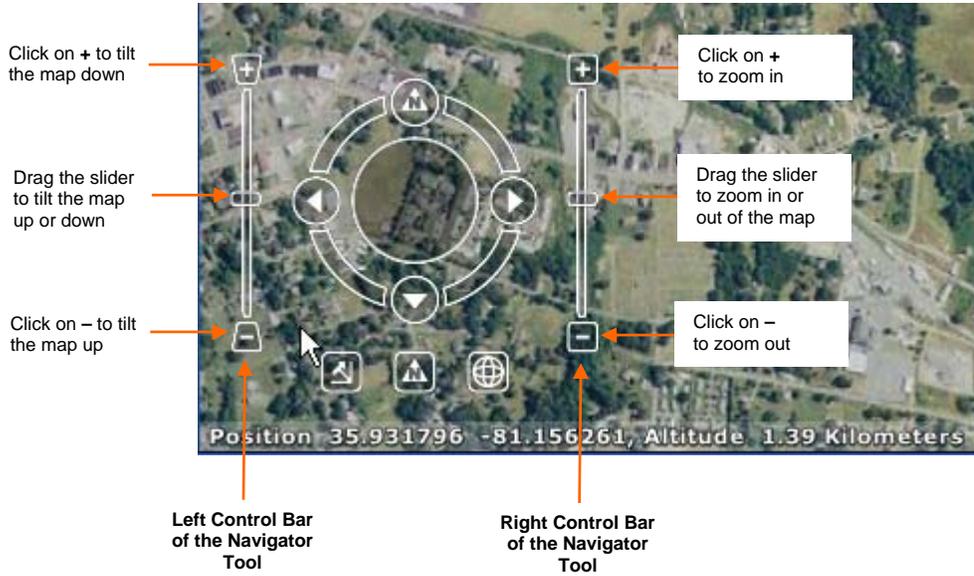


Console:
Task Center
Tasks
Results
Contents

Navigator
Tool

Image of
the Map

2. You will want to zoom in to see more details about the data of interest. To do this, hover your mouse cursor over the Navigator Tool in the lower-left corner of the map display. The zoom o will pop up.
 - The +/- slide bar on the right is used to zoom in and out.
 - The +/- bar on the left is used to tilt the map.

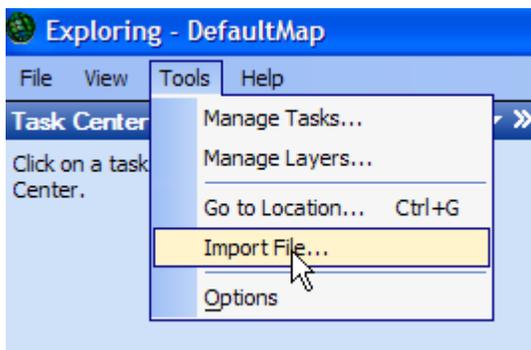


Zoom out using the +/- slide bar on the right.

Section 3: Using an Imported File within ArcGIS Explorer

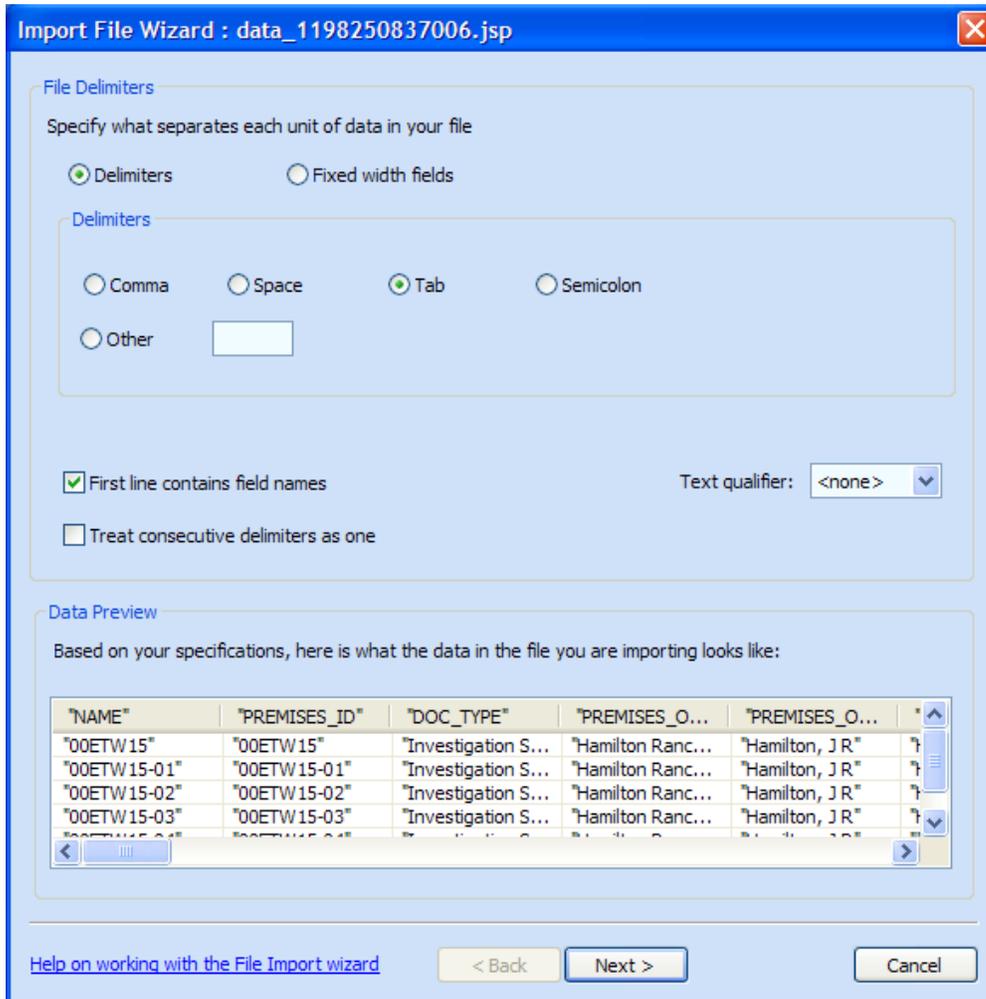
3A Importing a File

1. In the drop-down menu of ArcGIS Explorer client, go to **Tools > Import File...**



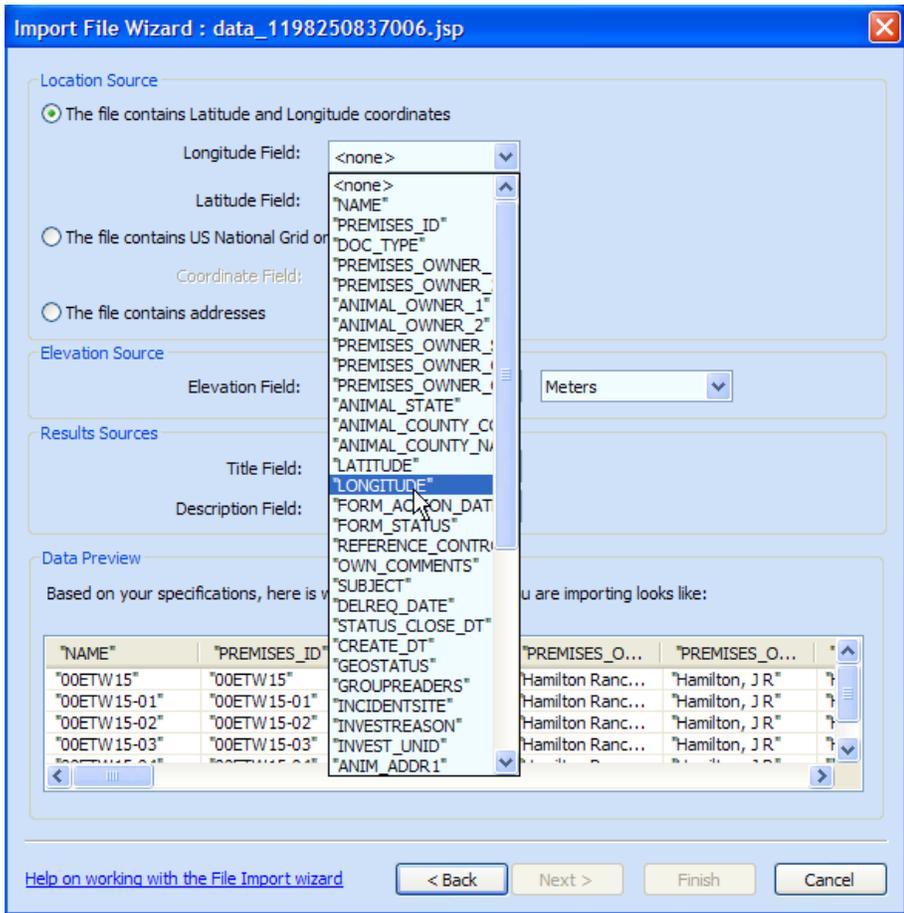
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2. Select the file you want to import by doing the following:
 - a. In the Import File window, select the Investigation Summary file you downloaded from Site Planner.
 - b. Click the **Open** button.
3. The Import File Wizard dialog box (see below) first shows the details of the file format, and displays delimiter choices and a preview of the data. The “Tab” delimiter is selected by default.



Click **Next** to continue with the import.

4. The next Import File Wizard dialog box shows several more blocks that you can customize.



a. In the “Location Source” block, do the following:

- i. Check the radio button next to “The file contains Latitude and Longitude coordinates” option.
- ii. Verify that the value shown in the **Longitude Field** data field matches an actual column name in the file’s table (which is displayed in the Data Preview block).

Note: ArcGIS Explorer recognizes field names like lon, long, longitude, x, x-coord, and x-coordinate for **Longitude** associated field values and lat, latitude, y, y-coord, and y-coordinate for **Latitude** associated field values.

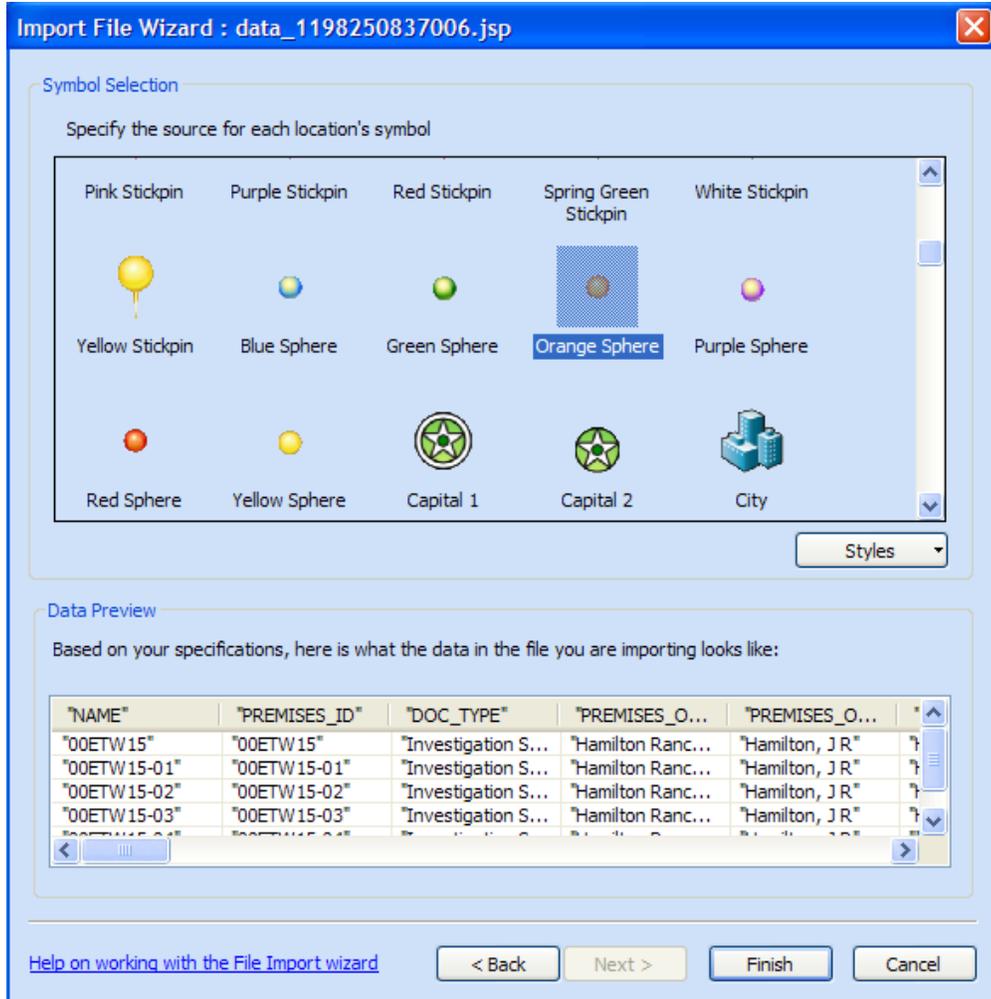
Example: The **Longitude Field** data field displays the value of LONGITUDE. Down in the Data Preview block, scroll horizontally through the file’s table until you find a column labeled LONGITUDE. If there is no column labeled LONGITUDE, find any column that contains X-Coordinate values. The label for this column needs to be specified back up in the **Longitude Field** data field using the drop-down List of Values (LOV).

- iii. Verify that the value shown in the **Latitude Field** data field matches an actual column name in the file’s table.

Example: In the file table, find the column containing Y-Coordinate values. The label for this column needs to appear back up in the **Latitude Field** data field.

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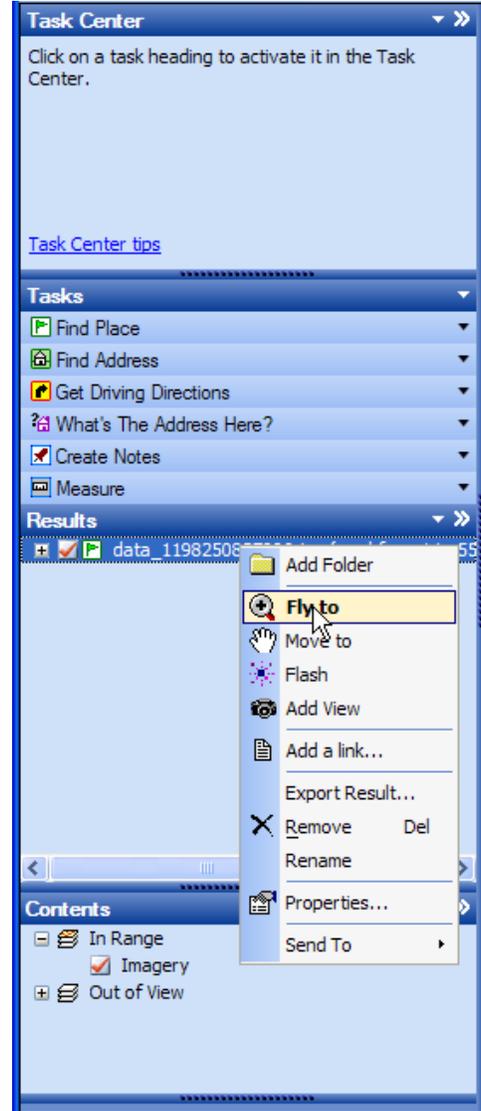
- b. In the “Results Sources” block, do the following:
 - i. In the **Title Field** data field, use the drop-down LOV to select “Premises_I”.
 - ii. In the **Description Field** data field, use the drop-down LOV to select “Premises_I” again.
- c. Click **Next** to continue with the import.
- d. Select the symbol you want to see displayed on the map that identifies your data.
 - i. Choose the “Orange Sphere” symbol (as shown in the example screenshot below) for the investigation summary premises data.
 - ii. Click **Finish**.



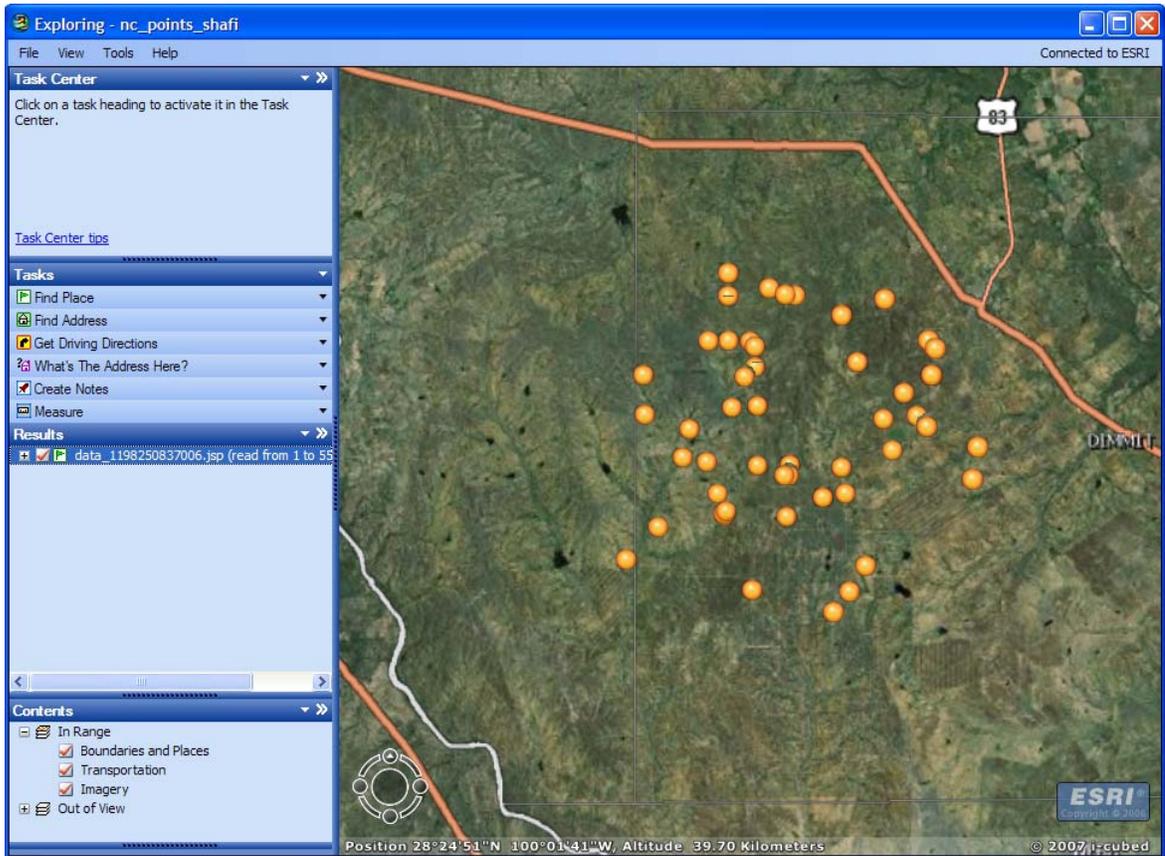
3B Displaying a Map within ArcGIS Explorer

Investigation Summary data is now listed in the Results Pane/section of ArcGIS Explorer.

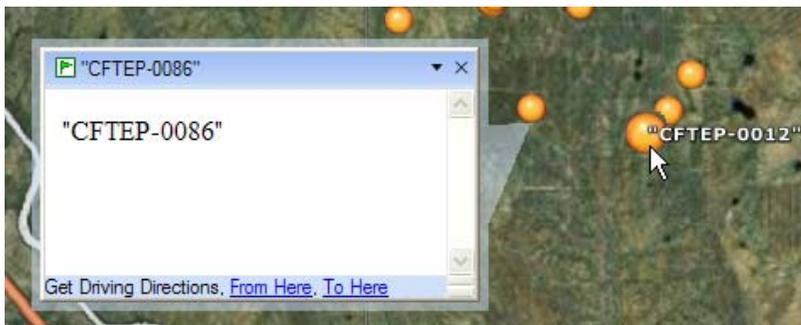
1. In this pane, highlight the name of the file you just imported.
2. Right-click to display a pop-up menu, and select **Fly to** in order to zoom into the premises data (shown at right).
It may take a few moments for the image to display behind the premises points.



The results are displayed in the mapping area of the ArcGIS Explorer Window.



3. Place the cursor in any of the data points to show the premises ID label.
4. Double-click on a data symbol/point to display a pop-up window that includes the premises ID (see the example below).



3C Getting Directions or Finding a Location

1. Place the cursor over a data symbol/point to see its Premises ID label.



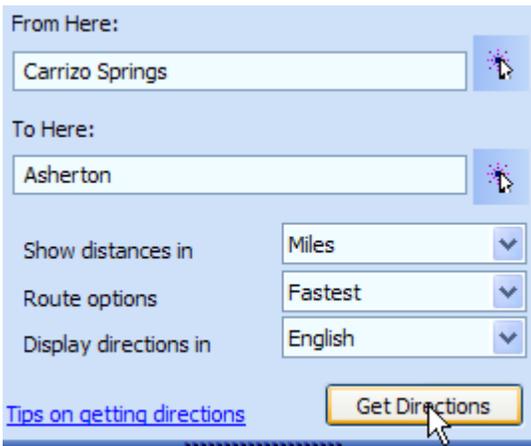
2. In the Tasks Pane, select the Get Driving Directions tab.
3. In the From Here: block, select the "Get Position" arrow cursor and then click on the map the CP1265 premises.



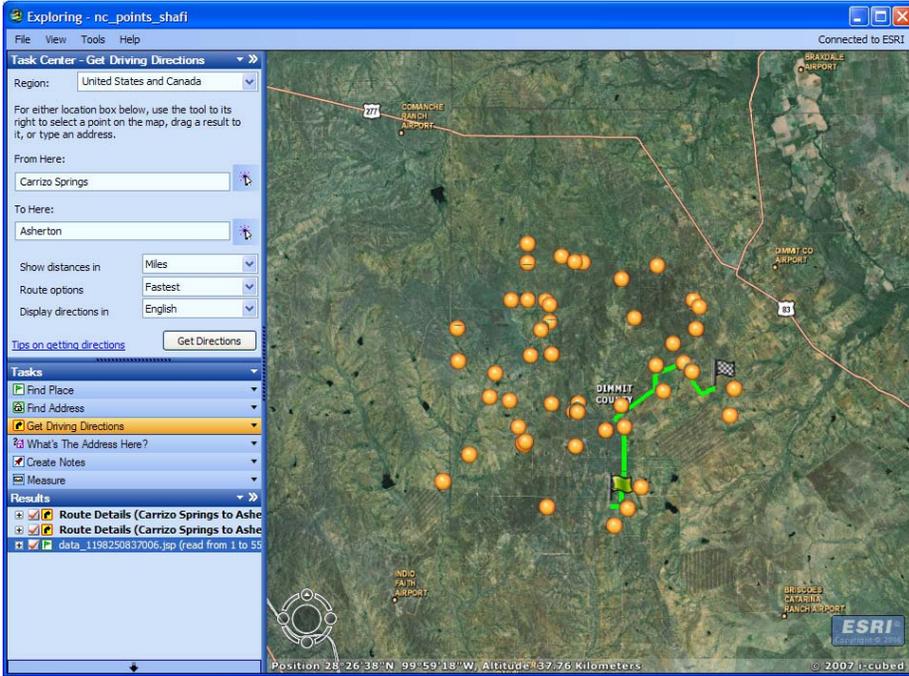
4. In the To Here: block, select the arrow and then click on the map the BY1214 premises.



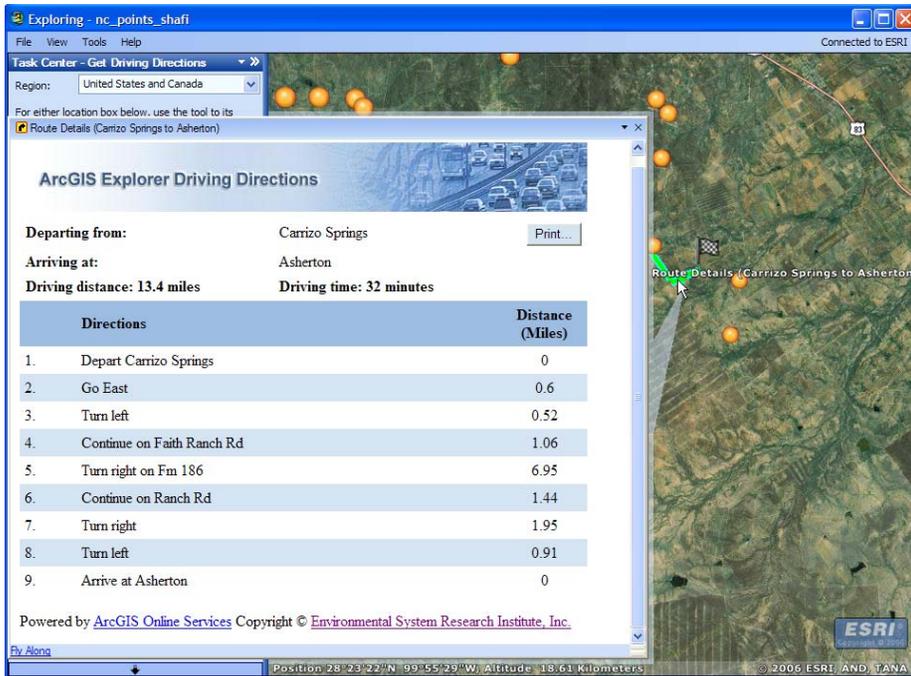
5. Click the **Get Directions** button (see below) to display driving directions. A route will display on the map (green color).



A route will display on the map (green color).



6. Click on the route in the map display to display a pop-up window with driving directions in it.



7. You can execute print jobs from the Driving Directions window by clicking on its **Print** button. A Print dialog box will appear that you can use to customize and execute your print request.