



MapSource[®]

user's
manual
and
reference
guide



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Thank you for choosing Garmin MapSource® — the complete tool for managing your Garmin GPS. MapSource provides geographic data on a CD-ROM to view on a PC or add to the basemap of your Garmin GPS. With MapSource, you can view existing waypoints, routes, and tracks on the graphic map by uploading the information from your Garmin GPS, or you can quickly create new waypoints or routes with a click of the mouse and download them to your Garmin GPS. When uploading your saved information from your GPS, you can easily edit and manage your waypoints, routes, and tracks with MapSource. This manual is organized into five sections for your convenience:

Introduction—contains important introductory material.

Getting Started—includes installation, unlocks, GPS connections, and reference to the MapSource Tour.

User's Interface—shows you how to use the numerous MapSource tools.

Reference—shows you how create routes, transfer data through MapSource.

Appendices—contains Keyboard Shortcuts map legends.

Index

Enjoy MapSource and thank you again for choosing Garmin!

Product Registration

Help us better support you by completing our on-line registration today! Have the serial number of your MapSource software handy and connect to our web site (www.garmin.com). Look for the Product Registration link on our Home page. Also, be sure to record your serial number in the right-hand column for a quick reference.

Introduction

Registration and Support

Serial Number

Use this area to record the serial number (8-digit number located on the back of the box) in case the MapSource software is lost, stolen, or needs service. Be sure to keep your original sales receipt in a safe place or attach a photocopy inside the manual.

Serial Number:

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Contact Garmin Customer Service

Should you encounter any difficulty while installing MapSource, or if you have any questions about MapSource, contact Garmin's Product Support Department by phone at 800-800-1020, Monday – Friday, 8 am – 5 pm Central Time; or by e-mail at: sales@garmin.com.

Introduction

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Introduction

Software License Agreement

Introduction

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Map Data Information: One of Garmin's goals is to provide customers with the most complete and accurate cartography that is available to us at a reasonable cost. We use a combination of governmental and private data sources which we identify as required in product literature and copyright messages displayed to the consumer. Virtually all data sources contain inaccurate or incomplete data to some degree. This is particularly true for areas outside the United States, where complete and accurate digital data is either not available or is prohibitively expensive.

If the data source is lacking a feature, or if an item is mislocated or misidentified, it will be incorrectly identified or missing in the Garmin cartography product as well. Each MapSource product has its strengths and weaknesses, and not all are suitable for every purpose. Please keep this in mind as you use and enjoy the benefits the cartography provides.

Garmin encourages customers to report any errors found in our electronic maps by completing our on-line Error Reporting Form in the Cartography section of our web site at: <http://www.garmin.com/cartography/mapSource/errorForm.html>.

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Introduction

Warnings and Cautions

BlueChart®

The following Warnings and Cautions may apply to some or all of the content in the MapSource BlueChart™ CD-ROM:

WARNING: No National Hydrographic Office has verified the information in this product and none accept liability for the accuracy of reproduction or any modifications made thereafter. No National Hydrographic Office warrants that this product satisfies national or international regulations regarding the use of the appropriate products for navigation.

WARNING: This product has been produced, in part or whole, from the United Kingdom Hydrographic Office products. No liability is accepted for the use of this product and it must not be used to assist in navigation. The digital chart(s) contained herein have not been verified or updated. For your safety, users are advised to consult official updated nautical charts for navigational purposes.

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Installation Requirements

Compatibility

MapSource is compatible with all Garmin GPS systems except the GPS 100 family of products (including GPS 100AVD, GPS 100MRN, GPS 100MIL, and SRVY II) and Panel Mount Aviation products.

Data Transfer

If your Garmin GPS system can transfer data, you have a variety of available MapSource data transfer options such as Garmin storage cards (available for use with selected Garmin GPS systems), Compact Flash (CF) cards, and Secured Digital (SD) cards. Be aware that, when transferring MapSource data, the storage card will overwrite old data with new data. (See *Information on Storage Cards* in the **Reference** section of this manual.)

Minimum System Requirements

IBM-compatible PC with Pentium processor or equivalent, 16-32 Megabytes RAM, CD-ROM drive, mouse or other pointing device, 256-color display adapter (24-bit color recommended) and monitor with 640 x 480 resolution or higher, and a minimum of 20 Megabytes to 1.5 Gigabytes of free hard drive space (depending on the map data).

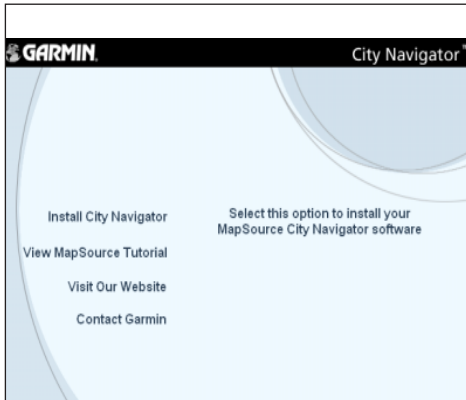
MapSource requires a 32-bit operating system such as Windows 95/98/2000/ME/XP or Windows NT 4.0. An available serial port or USB port (if applicable) is required for interfacing with a Garmin GPS unit. Internet access is recommended for MapSource products with “locked” data. Use of the Garmin USB Data Card Programmer accessory requires Windows 98/2000, ME, or XP, and a USB (Universal Serial Bus) Port.

Getting Started

Compatibility and Installation Requirements

Getting Started

MapSource Setup CD Installation



Setup CD Options Menu

Above is an example of the options that appear when the Setup CD runs on your computer. Other options that might appear are specific to the GPS unit purchased.

Installing MapSource

The MapSource installation process varies, depending on the type of mapping product you purchase. For example, City Select and City Navigator require a Setup CD and two additional CDs. Other products require one or two CDs with no Setup CD. If your MapSource product includes a Setup CD, insert it into your computer first to begin installation. If your product contains two CDs but no Setup CD, insert Disc 1 into your computer and follow the installation instructions.

Installing the MapSource Setup CD

Following are installation instructions for MapSource products that include a Setup CD.

To install MapSource from the Setup CD:

1. Insert the Setup CD into your computer's CD-ROM drive.
2. Your computer should automatically run the setup file and display a Welcome screen. If it doesn't run automatically, click **Start** and select **Run**. Then, type your CD-ROM drive letter followed by "setup" (for example, "d:\setup"), and press **Enter**.
3. When the Start Up screen displays, select the desired installation language and continue to the Options menu.
4. Choose an available option from the list and follow the on-screen instructions. You have the following options:
 - Install the MapSource program via an InstallShield Wizard;
 - View the MapSource tutorial;
 - Visit the Garmin web site (you need an Internet connection);
 - Contact Garmin. via e-mail. Other available support options are specific to the Garmin GPS unit you have purchased.

Getting Started

If you have previously installed other MapSource products on your hard drive and/or you do not have enough hard drive space to install the entire mapping product database, try one of the following:

- Select fewer coverage areas to download.
- Remove other programs from your hard drive.
- Completely uninstall all other MapSource products and re-install them to a new hard drive. Then, install the new MapSource product to the same new hard drive (all MapSource product files must reside on the same hard drive).

Installing Additional MapSource CDs

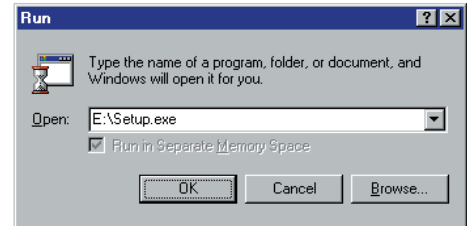
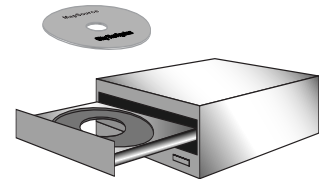
If your MapSource product does not include a Setup CD, or if your product (such as City Select and City Navigator) requires installing additional CDs, follow the instructions below.

To install MapSource software:

1. Insert "Disk 1" of the mapping CD into your computer's CD-ROM drive.
OR: If your product includes only one CD, insert it now.
2. Your computer should automatically run the start-up file and display a Welcome screen. If it doesn't run automatically, click **Start** and select **Run**. Then, type your CD-ROM drive letter followed by "setup" (for example, "d:\setup"), and press **Enter**.
3. Follow the directions on your computer screen.

If you have purchased multiple MapSource products, repeat steps 1-3 for the additional CD-ROM(s). The "Full Install" option copies all files to your hard drive, so the CDs won't be required to run the program. This may take 1-2 Gigabytes of hard drive space.

If your MapSource product includes more than one CD, installation will only start from disc one. The other MapSource discs will be needed to run the program after installation.



Run Window

If the installation CD does not automatically run when inserted, click Start, then Run. Type the letter of your CD-ROM drive and follow the example above.

Installing Regional MapSource Maps

MapSource products such as City Select and City Navigator will prompt you to install regional maps after you have completed the initial installation. If you do not see this prompt, skip to the next section.

To select and install Regional MapSource maps:

1. You will see a map divided into regional coverage areas, followed by a coverage area selection page.
2. On the Regional Coverage Area Selection page, check the box next to the regions you want to download to your hard drive.

When you select a region, a description of the coverage area is displayed to the right. The total space required for downloading the files, along with the available space on your designated hard drive, is displayed below the region selection list (make certain your hard drive has enough room to download the files).

3. Select the regions you want to download and click "Next."
4. Follow the directions on your computer screen to complete the setup.

Installation may take several minutes.

You may need to "unlock" your MapSource product. If so, refer to "Unlock Codes" in the **Getting Started** section of this manual.

Using the InstallShield Wizard

You can modify, repair, or remove the MapSource program with the InstallShield Wizard at any time.

To access the InstallShield Wizard:

1. Click the **Start** button, select "Programs," then "MapSource," then "<MapSource product> Installation Wizard."

To add or remove specific Coverage Areas:

1. From the InstallShield Wizard screen, select "Modify," and click "Next."
2. On the Regional Coverage Area Selection page, check/uncheck the boxes next to the areas you want to add/remove and click "Next."

Use InstallShield Wizard's "Repair" option to duplicate the previous installation of the mapping product if it becomes corrupt, or the "Remove" option to completely uninstall all components of the previous product from your hard drive.

Getting Started

InstallShield Wizard



NOTE: After you have installed certain MapSource products such as City Navigator or City Select, you will be prompted to enter a 25-character Unlock Code that is provided with your MapSource CD and is packaged in a separate envelope. Refer to "Unlock Codes" in the **Getting Started** section of this manual.

Removing MapSource

Removing MapSource

To remove the MapSource mapping product from your system:

1. Click the **Start** button.
2. Select "Settings," then "Control Panel." From the Control Panel page, select "Add/Remove Programs," highlight "<MapSource Product Name>," and click "Add/Remove."

OR:

Select "Programs," then "MapSource," then "<MapSource Product Name> Installation Wizard."

3. The InstallShield Wizard page appears. Select "Remove," click "Next," and then click "Finish."

To remove all other MapSource products from your system:

1. Click the **Start** button and select "Settings," then "Control Panel."
2. From the Control Panel page, select "Add/Remove Programs."
3. Highlight "MapSource" and click "Add/Remove."

Unlock Codes

Unlocking Maps

Some MapSource products must be “unlocked” before you can view and download the detailed map data. Those products come with either a 25-character unlock code that can unlock all maps associated with the MapSource product, or a MapSource Unlock Certificate which is an 8-character coupon code that you can redeem to unlock a single region.

An UnlockWizard automatically runs at the end of the installation process. Follow the directions on your computer screen and use the code to unlock the map data and register your MapSource product.

If you did not unlock maps during installation, or if you want to unlock another MapSource region, or if you want to unlock maps for a second Garmin GPS unit, you may do so using the UnlockWizard, and/or Garmin's website: www.garmin.com.



NOTE: *Keep your Unlock Certificate and Unlock Code in a safe place. You may need this information in the future if you need to re-install MapSource. Garmin cannot give refunds or exchanges for MapSource Unlock Codes.*

Redeeming a Coupon Code

If your MapSource Unlock Certificate includes an 8-character coupon code, use that number to obtain an unlock code either by following the directions on the Certificate or by using the UnlockWizard.

Getting Started

Unlock Codes



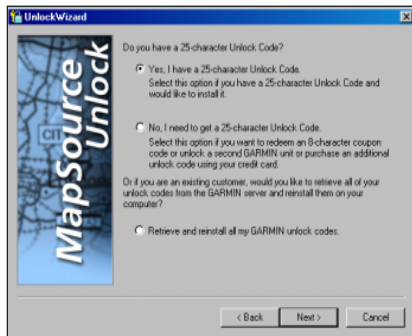
MapSource products that require an unlock code carry this symbol on the outside of the box.



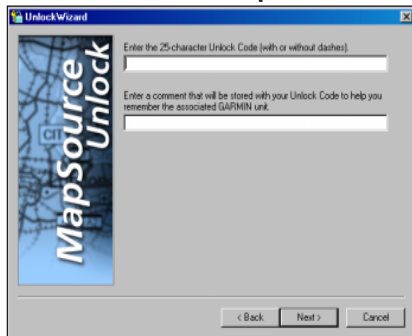
NOTE: *If your MapSource program does not have a 25-character code or an 8-character coupon code, and you do not see the above symbol on the outside of the box, you DO NOT need to unlock the maps to view map detail.*

Getting Started

Unlock Codes



UnlockWizard Options



Enter 25-character unlock code

UnlockWizard

To run UnlockWizard, click the **Start** button, select “Programs,” then select UnlockWizard from the MapSource menu. Follow the directions on your computer screen to either enter a 25-character unlock code or redeem an 8-character coupon code that will unlock the map data. Once the map data is unlocked, the unlock code and coverage area information will appear in the “Unlock Regions” window (**CTRL+U**) in MapSource.

If you have a 25-character unlock code that you did not enter using the UnlockWizard during installation, enter it in the “Unlock Codes” window in MapSource instead of running the UnlockWizard again.

To enter an Unlock Code and unlock a map region:

1. Select “Unlock Regions” from the Tools menu or press **CTRL+U**.
2. Click “Add.” Type or paste the 25-character code in the provided space. Enter a note in the Comment field if desired (this may be useful for distinguishing multiple Unlock Codes in the list).
3. Click “OK.” To add another code, repeat step 2. To exit, click “Close.”

To delete an Unlock Code:

1. Select “Unlock Regions” from the Tools menu or press **CTRL+U**.
2. To delete an Unlock Code, highlight that code with a right-click and select “Delete.” Click “Yes” when you are asked “Are you sure you want to delete...” To exit, click “Close.”



NOTE: The Unlock Wizard is not available in all MapSource products.

Keep your unlock codes in a safe place by backing them up to a file and storing that file in a separate location. You can restore the unlock codes from the saved back up file.



NOTE: *It is recommended to keep the back up file in a separate location away from the MapSource folder.*

To back up all Unlock Codes into a saved file:

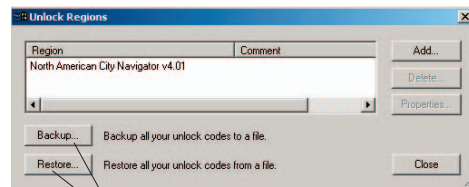
1. Select "Unlock Regions" from the Tools menu or press **Ctrl+U**.
2. Click "Backup." Name the file in the "File Name:" field.
3. Place the file in a specific folder using the "Save in:" field and choose your destination (such as your hard drive or My Documents).
4. Click **Save** to store your file.

To restore your Unlock Codes from a saved file:

1. Select "Unlock Regions" from the Tools menu or press **Ctrl+U**.
2. Click "Restore." The "Open" window appears.
3. Locate your saved unlock codes file by using the "Look in:" field.
4. Highlight the file and click "Open" to restore the unlock codes.

Getting Started

Unlock Codes



Backup and Restore Options

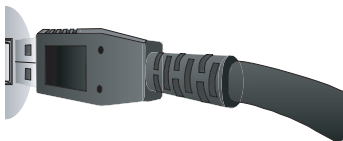
Back up or Restore your unlock codes from a saved file on your computer.

Getting Started

GPS Connections



Serial Communications Port



USB Data Port

Connecting the GPS to a Computer

To connect your GPS to your computer via a Serial Interface Cable:

1. Using a PC Interface Cable, connect your GPS to a serial communications port on your computer (see illustration at right).
2. To ensure a good connection, MapSource can automatically detect your GPS on the COM port. Check that your GPS is powered on and the Serial Data Format is set to Garmin.
3. Select "Get Unit ID" from the Tools menu.
4. Click "Auto Detect." MapSource will verify that the GPS unit is properly connected to your computer.
5. Click "OK" to set the COM port and exit.

To connect your GPS to your computer via a USB Interface Cable:

1. Using the USB data cable, connect your GPS to an available USB data port (see illustration at right).
2. When you initially connect the USB GPS to a USB port, your computer will prompt you to locate the destination of the drivers for the USB GPS (or it will automatically install the drivers if you are using Windows 2000 or XP). Refer to your Garmin USB GPS Owner's manual for instructions on installing the drivers. You only need to install the drivers once. After completing the driver installation, MapSource will always detect your Garmin USB GPS when you connect to the computer.
3. To test if the device is found in MapSource, go to "File," then "Save To," then "USB GPS." In the "USB GPS" dialog box, you will see the default name of the USB GPS along with the current software version of the unit (or the new name of the USB GPS device if you changed the name). You now have access to transfer MapSource data (once selected) to and from your Garmin USB GPS.

MapSource Tour

MapSource comes with a document file, called “MapSource Tour,” that includes a sample of waypoints, one route, and a Help file that provides instructions on how to perform the basic operations of MapSource.

To open the MapSource Tour file:

1. In MapSource, select “Open” from the File menu.
2. In the “Look In:” field, use the drop-down list to select your hard drive, e.g. C:\.
3. Select the “Garmin” folder.
4. Select “MapSource Tour.mps” in the window.

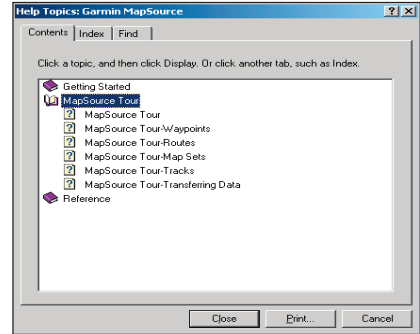
After selecting MapSource Tour.mps, the file opens in MapSource, and the name of the file appears in the top left corner of the screen. You can see 13 waypoints in the Waypoints Tab and one route in the Route Tab on the left side of the window.

To find MapSource Tour in the Help Menu:

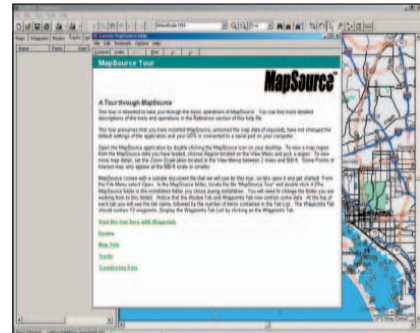
1. Select “Contents” from the Help menu in MapSource.
2. Double-click “MapSource Tour.”
3. Double-click the desired MapSource Tour topic.

Getting Started

MapSource Tour



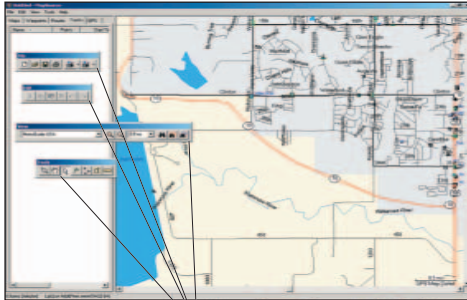
MapSource Tour in the Help Menu



MapSource Tour Display

User's Interface

MapSource Toolbars

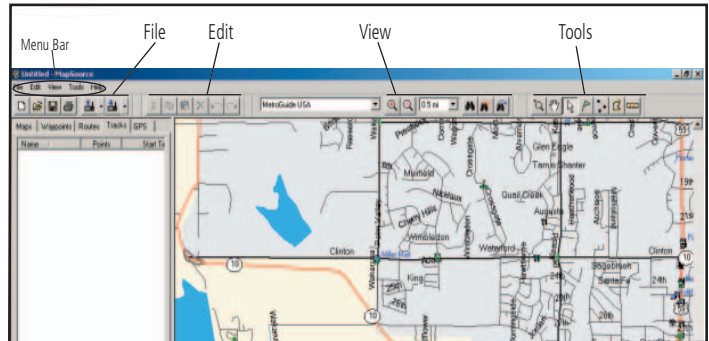


Undocking the Toolbars

This section describes and explains the MapSource screen interface by way of MapSource toolbars, Data tabs, Graphic Map, Status Bar, and the menu bar (File, Edit, View, Tools, Help, and Right-Click menus).

MapSource Toolbars

MapSource uses four toolbars: File, Edit, View, and Tools. These toolbars feature icons that offer shortcuts to many of the features that appear in the Menu Bar (see the Menu Bar discussion, beginning on page 17). The most popular and often-used features you will use in MapSource have shortcut icons.

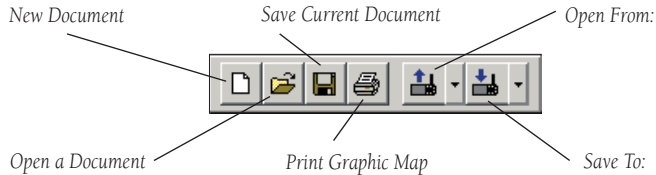


Undocking the Toolbars

The toolbars can be undocked and moved around the application for your convenience. To undock a toolbar, place the mouse pointer over an open area on the toolbar, click and hold the left mouse button, and move the toolbar to a different location. To return a toolbar to its starting location, move it back to the top of the application.

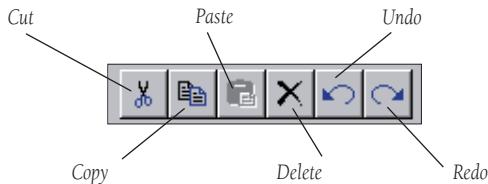
File Toolbar

Use these features to create a New Document, Open a Document, Save the Current Document, and Print the Graphic Map. You can also transfer data between MapSource and a GPS unit or a storage card by selecting Open From (Device), or Save To (Device).



Edit Toolbar

Use these editing features to Cut, Copy, and Paste in MapSource, Delete selected items, and Undo the last user action. After an Undo is performed, the Redo button is activated, allowing you to revert to the last user action, or Redo the Undo.



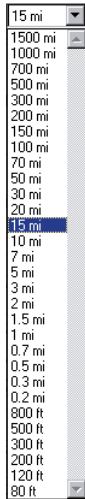
File and Edit Toolbars



NOTE: Features found in the MapSource toolbars also appear in the Menu Bar. For detailed information on these features, see "MapSource Menus" in this section of the manual.

User's Interface

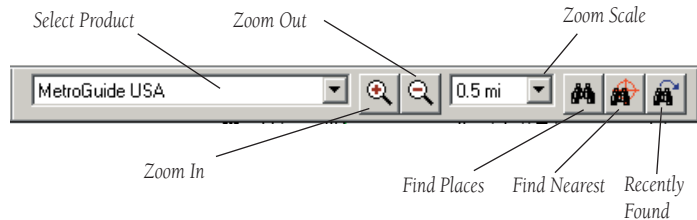
View and Tools Toolbars



With the Zoom Scale, you can zoom In as close as 80 ft., and Out up to 1500 miles. The Zoom In and Zoom Out buttons offer the same zoom increments.

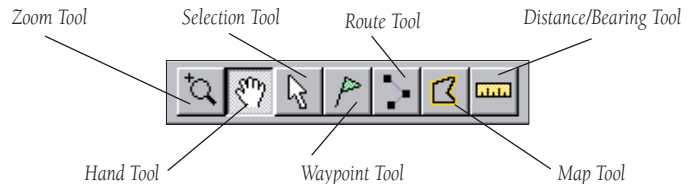
View Toolbar

Use these features for viewing maps. You can select a Product to view, Zoom In/Out, select a specific Zoom Scale, or activate the Find features. The Find features let you search for a city and view it on the Graphic Map. Some MapSource products include the Find Places feature, allowing you to search for a city, point of interest, or an address and view it on the Graphic Map.



Tools Toolbar

Use these features as you search for locations and plan routes. You can directly select the Zoom, Hand, Selection, Waypoint, Route, Map, and Distance/Bearing tools.



Data Tabs

The Data tabs (Maps, Waypoints, Routes, Tracks, and GPS) are located on the left side of the MapSource window. When you select one of these tabs, data for that item is displayed in a list. This can be data that is created in the Graphic Map area to the right, or it can be data that has been transferred from a GPS. For example, when you select maps that you want to save to your GPS, these maps are listed in the Maps tab. The GPS tab will display real-time tracking when you run MapSource on a laptop while your Garmin GPS is connected to the laptop.

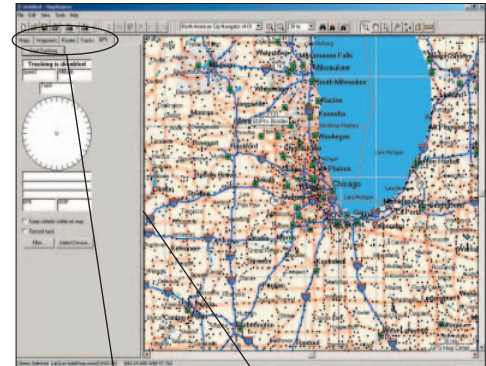
The tabs allow you to easily select items for viewing or editing. Additionally, data displayed in the tabs can be sorted by column. To sort the data by a specific column, click the column header. An arrow appears showing the direction of the sort (ascending or descending). You can also change the order of the columns by clicking and holding a column header, then “dragging and dropping” the column into the desired location.

You may need to move the Splitter Bar to see all the column headers. The Splitter Bar can be moved by clicking and holding the left mouse button on the bar and dragging it to a new location.

The tabs show what items are transferred to a GPS or a storage card. MapSource transfers all of the data in a chosen tab, not just the item highlighted in the list.

User's Interface

Data Tabs



Data Tabs

Splitter Bar

Data Tab Lists

The Tab selects the type of data displayed. To see all data, you may need to change the position of the Splitter Bar. It can be moved by clicking and holding the left mouse button on the bar, and dragging it to a new location.

Graphic Map/ Status Bar



Graphic Map



Status Bar

Graphic Map

The Graphic Map displays the area of the world that is currently selected from your MapSource product. You can zoom in and out and move to different parts of the selected area. At large zoom scales (ZOOM OUT), less detail is displayed. At smaller zoom scales (ZOOM IN), you can see the actual detailed map features that can be transferred to your GPS (if your GPS supports this feature). When this occurs, “GPS Map Detail” is displayed below the zoom scale in the lower right-hand corner of the Graphic Map.

You can pan the Graphic Map in many ways: by using the on-screen scroll bars, the keyboard's arrow keys, or the “Hand” tool. In addition, the **Page Up** and **Page Down** keys move the map window up or down by the length of the window. Hold the **Ctrl** key and press an arrow key to move the map by the width of the window in that direction (up, down, left, or right).

Status Bar

The Status Bar extends across the bottom of the MapSource window. The Status Bar displays information relating to the current action. The Status Bar can show:

- The number of tab items selected in the tab list.
- The current Position Format and Map Datum set in Preferences.
- Latitude and Longitude of the mouse pointer when the mouse is positioned on the Graphic Map, regardless of which tool is selected.
- The name and approximate data size of the geographical map boundary currently highlighted on the Graphic Map is displayed (if you are using the Map tool).
- The distance and bearing from a beginning point is displayed (if you are using the Distance/Bearing tool).

MapSource Menus

File Menu

New— Opens a new MapSource document that contains empty data tabs.

Open— Opens a previously saved MapSource document.

Save/Save As— Saves the current MapSource document.

Print— Prints the current Graphic Map display.

Print Preview— Shows a preview of what will be printed. To print the preview, click the “Print” button that appears on the preview page.

Print Setup— Activates the setup page for printing the MapSource Graphic Map display.

Open From— Allows you to transfer selected data (Maps, Waypoints, Routes, and Tracks) from a GPS or a storage card. See “Transferring Data” in the **Reference** section of this manual for more information.

Save To— Allows you to transfer selected MapSource data to a GPS or storage card. See “Transferring Data” in the **Reference** section of this manual for more information

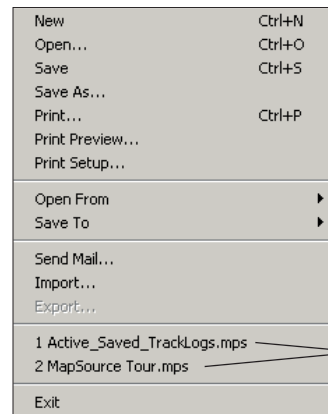


NOTE: *Garmin GPS units are limited in the number of waypoints, routes, tracks, and map sets that can be stored in the unit. Please refer to your Garmin GPS Owner’s manual to learn more about how much memory your GPS unit has to store this information.*

Send Mail— Allows you to send an e-mail with the current MapSource document as an attachment. The recipient must own a MapSource pro-

User’s Interface

File Menu



File Menu

Recent
Files

User's Interface

File Menu/Edit Menu

Undo	Ctrl+Z
Redo	Ctrl+Y
Cut	Ctrl+X
Copy	Ctrl+C
Paste	Ctrl+V
New Waypoint...	Ctrl+W
New Route...	Ctrl+R
New Track...	Ctrl+Shift+T
Duplicate Route	
Delete Item	Del
Remove Waypoint(s) from Route	Ctrl+Del
Properties...	
Select All	Ctrl+A
Preferences...	Ctrl+Shift+P

Edit Menu

gram and the version must be equal to or greater than the version of the file sent. For example, the user receives a MapSource file with version 4.10. The user must have MapSource version 4.10 or higher to view the file. MapSource version 3.0 will not work.

Import— Allows the user to open data stored using Garmin's PCX5 Version 2.09 software. MapSource displays waypoints (.wpt), routes (.rte), tracks (.trk), or one of the maps (.grm) provided with PCX5. **Note:** This feature is only for users who currently have PCX5 format files.

Export— Allows the user to export MapSource data in a tab-delimited text format (.txt)--for use in a word processor or spreadsheet--or in a .dxf format.

Recent Files— Shows the four most recently used MapSource documents. To quickly reopen one of these files, click the document name.

Exit— Closes the MapSource application.

Edit Menu

Undo— Reverts to the most recent previous action taken by the user.

Redo— After an Undo action is performed, the Redo button is activated, allowing you to revert to the last user action, or Redo the Undo.

Cut, Copy, Paste— These functions work like many other Windows programs. You can cut or copy any MapSource list information in the Data tabs to the Windows clipboard for the following purposes:

- To paste data from one active MapSource document to another active MapSource document.
- To paste MapSource information into a word processor, simple text editor, or a spreadsheet program in tab-delimited text format.

Edit Menu

New Waypoint— Automatically creates a new waypoint in the center of the Graphic Map, assigns a waypoint name, description, and displays the “Waypoint Properties” dialog box. You can change the waypoint name, description, and/or position. You can also assign an altitude, enter a proximity distance, enter a depth, choose a symbol, select display colors (if you have a color unit), and set the display options for the waypoint. To center the waypoint on the Graphic Map, click “*Show on Map*.” When you are finished, click “*OK*” to save or “*Cancel*” to remove the waypoint. For more detailed information, see “Creating Waypoints” in the **Reference** section of this manual.

New Route— Displays the “Route Properties” dialog box.

To create a new route:

1. Click the “*Find*” button. In the “*Find Places*” window under the Waypoint tab, select a waypoint by typing the name of the waypoint, or select from a list of waypoints by clicking the “*Select*” button (you must have already created and saved waypoints to choose from a list).
2. After selecting the waypoint, click “*Find*” to locate the waypoint. Click “*Add to Route*” to add the waypoint to the route. With some MapSource products, you can also search for a city, point of interest, or an address to add to the route by clicking the appropriate tab button (City, Feature, or Address). Continue inserting route points in the order you want the navigation to take place. When the last point has been inserted, click “*OK*” to save and add the new route to the Routes tab list.
3. If you wish to view the new route on the Graphic Map, click “*Show on Map*.”

When you create a route, MapSource automatically assigns a name based on the names of first and last route waypoints. To change the route name, uncheck the “Autoname” box. This will activate the name field so you can type in a new route name.

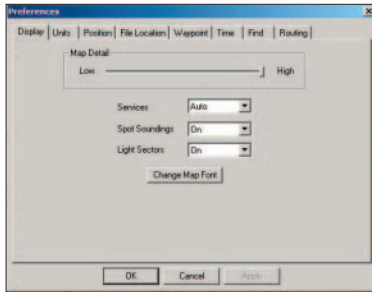
The screenshot shows the "Waypoint Properties" dialog box with the following fields and values:

- Name: KNSCTY
- Description: Kansas City (Mo-Ks)
- Position: N39 03.832 W94 42.134
- Altitude: [] ft Unknown
- Proximity: [] mi Unknown
- Depth: [] ft Unknown
- Symbol: [v] Waypoint
- Color: [v] Unknown
- Display: [v] Symbol & Name

**“Waypoint Properties” Dialog Box
for a New Waypoint**

User's Interface

Edit Menu: Preferences



Preferences—"Display" Tab



Preferences—"Units" Tab

Duplicate Route— Duplicates the selected route in the route list. The name of the new, duplicated route is followed by a numerical value to indicate a duplication.

Delete Item— Deletes Waypoint(s), Route(s), Track(s), or Map(s) selected in the tab list or on the Graphic Map.

Remove Waypoint(s) from Route— Removes a selected waypoint from the selected route.

Properties— Activates the "Map," "Route," "Waypoint," or "Track Properties" dialog box, depending on the data item that is selected.

Select All— Highlights all data in the active tab list and on the Graphic Map.

Edit Menu: Preferences

Use this section to change the original (or default) preferences that will apply each time you use your MapSource product. When you change any of the Preferences settings, click "Apply" to see the changes take effect immediately or click "OK" to apply the changes and exit. **Note: if you leave all preferences at their original settings, Map Source will still function correctly for general use.**

Display Tab: Use the slider control to adjust the amount of detail that will be displayed on the Graphic Map (this setting does not affect the amount of detail transferred to the GPS) as well as options for displaying "Services," "Spot Soundings" (for Blue Chart users), and "Light Sectors" (for Blue Chart users) on the Graphic Map. To change the font of the labels on the map, click "Change Map Font."

Units Tab:

Distance/Speed: Select Metric, Nautical, or Statute. All distance or speed measurements will reflect this setting.

Heading: Choose one of the following

- True—displays true North headings.
- Automatic Magnetic Variation—automatically calculates the magnetic variation for the geographical area.
- User—allows you to enter a magnetic variation.
- Grid—provides a true North heading as determined by the Position Format.
- Cardinal Direction—displays your heading and/or course as N(orth), S(outh), E(ast), and W(est). (Course information is found in the Data tab section under Routes.)

Altitude/Elevation: Select Feet or Meters.

Depth: Select Feet, Meters, or Fathoms.

Area: Select Acres, Hectares, Square Feet, Square Miles, Square Meters, or Square Kilometers.

Position Tab: Select from the available default grid formats or manually enter information for a user-defined grid.

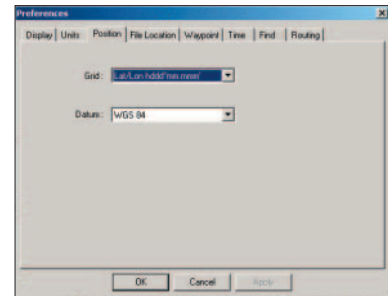
Grid: Select a grid format from the drop-down list.

Datum: Select from over 100 available map datums--allowing MapSource to easily match up with just about any paper chart or map--or manually enter information for a user-defined map datum.

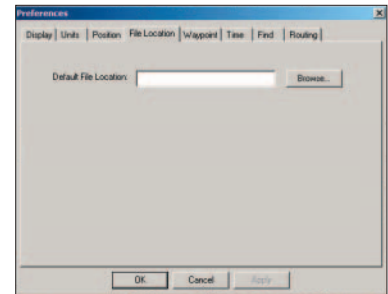
File Location Tab: Set up a default location on your computer for saving and opening your MapSource files, importing PCX5 data, and exporting .txt and .dxf data. Manually enter the location or click “Browse” to select the folder for your default file location.

User's Interface

Edit Menu: Preferences



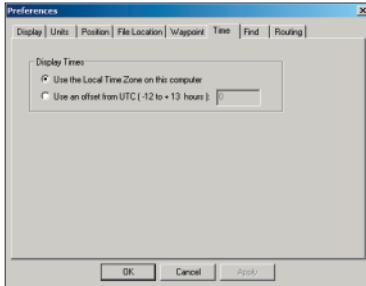
Preferences—"Position" Tab



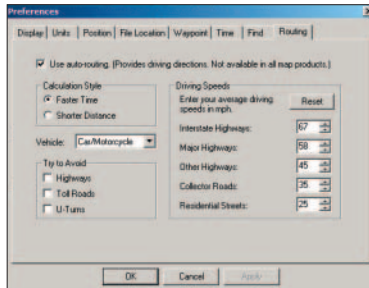
Preferences—"File Location" Tab

User's Interface

Edit Menu: Preferences



Preferences—"Time" Tab



Preferences—"Routing" Tab

Waypoint Tab: Sets up the preferences for creating waypoints in MapSource.

Characters: Use the drop-down menu or manually enter a number to limit the number of characters in waypoint names.

Creating a Waypoint on a Map Feature: If you want to use your own settings, check the "Use the choices above," option. Otherwise, MapSource can use its default settings.

Time Tab: Sets up displayed time either by the computer's local time zone or by entering a Universal Time Conversion (UTC) offset.

Find Tab: Allows you to set the maximum number of places MapSource should find during a search as well as how many "Recently Found" places you want MapSource to remember.

Routing Tab: Sets up preferences for automatic routing calculations when using a routable MapSource product. Select or deselect the auto-routing option. This option enables or disables the automatic calculation of turn-by-turn directions for a destination when you are establishing a route. Select, deselect, or set up the following for MapSource to automatically calculate a route: Calculation Style (Faster Time/Shorter Distance), Type of Vehicle, Avoid Highways, Avoid Toll Roads, Avoid U-Turns, and Average Driving Speeds on various types of roads. These features only apply to routable MapSource products. For more information, see "Creating Routes" in the **Reference** section of this manual.

View Menu

Show Selected Item on Map— When Waypoints, Routes, Map, or Tracks are selected in the tab list, selecting this feature displays the selected item in the center of the Graphic Map. The menu heading changes to reflect the item(s) selected in the tab list. For example, if a waypoint is selected in the Waypoints tab list, the menu will read “*Show Selected Waypoint on Map.*”

Go To Position— Allows you to enter a latitude/longitude position to view on the Graphic Map.

Zoom In— Decreases the zoom scale, showing a smaller area in more detail.

Zoom Out— Increases the zoom scale, showing a larger area in less detail.

Zoom In Max— Decreases the zoom scale to the smallest setting, showing the most detail.

Zoom Out Region— Increases the zoom scale to center on the region that is currently selected.

GPS Map Detail— Shows the actual map info that will be loaded into the GPS. Unchecking this option will enable faster map drawing.

Show Crosshair—Re-draws the map display to show a center point on the Graphic Map. A check mark next to this feature in the View menu indicates that it is selected.

User's Interface

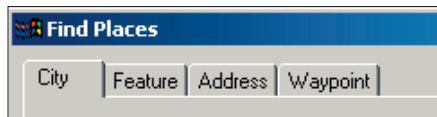
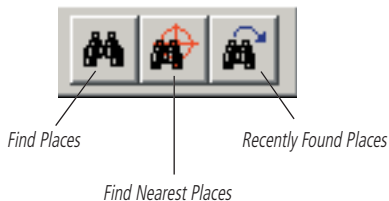
View Menu

Show Selected Waypoint On Map	Ctrl+D
Go To Position...	Ctrl+T
Zoom In	+
Zoom Out	-
Zoom In Max	Ctrl +
Zoom Out Region	Ctrl -
✓ GPS Map Detail	Ctrl+G
Show Crosshair	Ctrl+H
Products	▶
Zoom Scale	▶
Toolbars	▶
✓ Status Bar	
Find Places...	Ctrl+F
Find Nearest Places...	Ctrl+Shift+F
Recently Found Places...	

View Menu

User's Interface

View Menu



Only certain MapSource products include the "Feature" and "Address" search tabs. If your MapSource product does not support these options, they will not appear.

Products— Select a MapSource product to display on the Graphic Map if you have purchased more than one from Garmin. You can select a coverage area (on the Graphic Map) from any MapSource product that has been installed on your computer and is unlocked (if required). For some MapSource products, if you select an area that has been installed, but the corresponding CD is not in your computer's CD-ROM drive, a message will prompt you to insert the proper CD.

Zoom Scale— Allows you to quickly select a zoom scale from a list.

Toolbars— Allows you to individually select/deselect the File, Edit, View, and Tools toolbars to be shown or hidden on the PC screen. A check mark next to the toolbar name indicates those currently selected. You can also "Hide All" or "Show All" toolbars.

Status Bar— Allows you to show or hide the Status Bar at the bottom of the MapSource window. When this menu item is checked, the Status Bar is displayed.

Find Places— Allows you to search for a city, feature (point of interest), address or street, or a waypoint and view it on the Graphic Map. MapSource products include a "Find Places" dialog box with additional criteria to help narrow your search. The number of choices to search is determined by which MapSource product you own. With MapSource products that are installed by region, "Find Places" only locates items within the regions installed.

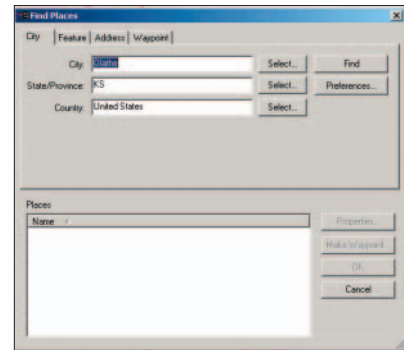
Find Nearest Places— Allows you to find the nearest features relative to the center position of the map. If you right-click on any location, feature, or waypoint (including waypoints in the Waypoint tab list), you can search for the nearest features relative to that specific position on the map.

Recently Found Places— Allows you to select places recently found from your initial search.

To find a City with the "Find Places" feature and view it on the Graphic Map:

1. Select "Find Places" from the View menu. The "Find Places" dialog box appears.
2. Under the City tab, enter a city name in the "City" field (you can also enter information in the other fields to narrow your search). If you are unsure of the city name, click the "Select" button to the right of the "City" field to show a list of city "matches." Highlight the desired city and click "Select City."
3. With the desired city name entered in the "City" field, click "Find" to show a list of city/state matches in the search results list. The first match is displayed in the center of the Graphic Map and is highlighted in the search results list.
4. Highlight the desired city and click "OK" to keep the selected city centered on the Graphic Map. To return to your previous map display, click "Cancel." To make this city a waypoint, click "Make Waypoint." In the Waypoint Properties menu, click "OK" to accept the city as a waypoint.

View Menu



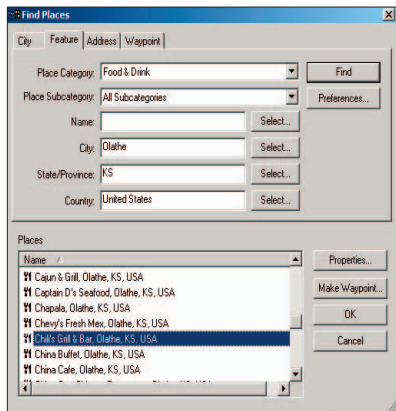
"Find Places" Dialog Box: City Tab



NOTE: Only cities in the selected region are listed. For example, if the selected region is Hawaii, cities in the continental U.S. will not be listed.

User's Interface

View Menu



"Find Places" Dialog Box: Feature Tab

To find a Feature/Point of Interest (POI), with the "Find Places" feature:

1. Select "Find Places" from the View menu. The "Find Places" dialog box appears.
2. In the Feature tab, use the drop-down list in "Place Category" and, if necessary, a "Place Subcategory."
3. Enter the name of a Point of Interest in the "Name" field. If desired, click the "Select" button next to the "Name" field to select from a list of matches for that name to help narrow your search. To narrow your search, use the "Place Category." If you do not know under which category this feature is located, keep "All Points of Interest" selected.
4. Enter the city, state, or both and then click "Find." All possible Point of Interest items will appear in the "Places" section at the bottom of the "Find Place" dialog box.
5. Highlight the desired Point of Interest.
6. To view the address and telephone number of the Point of Interest, click "Properties" (this can be helpful in distinguishing multiple Points of Interest with the same name). Click "OK" to exit the "Properties" window. To make this feature a waypoint, click "Make Waypoint." In the Waypoint Properties menu, click "OK" to accept the city as a waypoint.
7. To keep the selected point displayed in the center of the screen, click "OK." To return to your previous map display, click "Cancel."



NOTE: If you are using a MapSource product with unlocked data, the "Find Places" feature only locates points of interest within the unlocked region, but it will locate cities both within and outside the region.

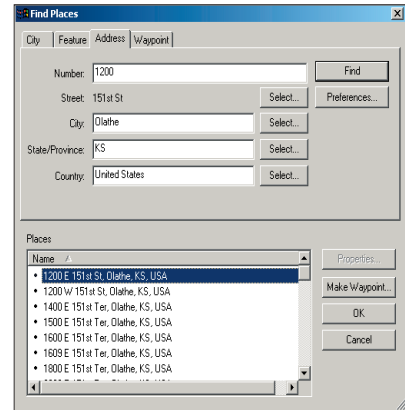
To find an Address or Street with the "Find Places" feature:

1. Select "Find Places" from the View menu. The "Find Places" dialog box appears.
2. Under the Address tab, enter the number of the address in the "Number" field.
3. Click "Select" in the "Street" field and enter the primary street name. A list of street name "matches" appears to narrow your search. Highlight the desired street name from the list and click "Select Street."
4. The full address (or the street name) appears in the "Street" field. Enter the city, state, or both and then click "Find." An address--or numerous addresses--will appear in the search results list. The first match will be displayed in the center of the Graphic Map and it will be highlighted in the search results list.
5. Highlight the desired location to view it on the map. If "No items found" appears, try using another matched street name from the "Street" field.
6. To return to your previous map display, click "Cancel." Select "OK" to exit the advanced "Find Places" window and keep the map centered on the highlighted address or street. To make this address a waypoint, click "Make Waypoint." In the Waypoint Properties menu, click "OK" to accept the address as a waypoint.

To find a Waypoint with the "Find Places" feature:

1. Select "Find Places" from the View menu. The "Find Places" dialog box appears.
2. Under the Waypoint tab, type the name of the waypoint you want to search in the "Name" field. If you do not know the name of the waypoint, press the "Select" button to the right and choose the waypoint from the available list. Click "Select Waypoint" to select the highlighted waypoint and then click "Find."
3. The first matching location is centered on the Graphic Map and highlighted under "Places." Highlight the desired location to view it on the map.

View Menu



"Find Places" Dialog Box: Address Tab

User's Interface

Tools Menu

✓ Zoom	z
Hand	h
Selection	s
Waypoint	w
Route	r
Map	m
Distance/Bearing	d
Unlock Regions...	Ctrl+U
Get Unit ID...	
Erase Garmin Storage Card...	
Rename USB GPS...	
Set PC Clock...	

Tools Menu



You can also change the Zoom Scale by clicking the ZOOM IN or ZOOM OUT buttons, or by using the drop-down Zoom Scale list, all located in the View toolbar.

4. To return to your previous map display, click "Cancel" or select "OK" to exit the advanced "Find Places" window and keep the map centered on the highlighted waypoint.

Tools Menu

Zoom Tool— Enables you to quickly zoom to a specific area on the Graphic Map.

To ZOOM IN on the Graphic Map:

1. With the *Zoom* tool selected, click the left mouse button to ZOOM IN by one level and re-center the Graphic Map on that point.
2. To ZOOM IN on a defined area, click and hold the left mouse key and draw a box around the area.

To ZOOM OUT on the Graphic Map:

1. With the *Zoom* tool selected, click the right mouse button to decrease the zoom scale by one step.



NOTE: Holding the *Ctrl* key while clicking the left mouse button will center the Graphic Map without changing the zoom level. Pressing the "+" and "-" keys on your keyboard also allows you to ZOOM IN and OUT.

Hand Tool— Allows you to quickly pan around the Graphic Map.

To pan around the Graphic Map:

1. Place the *Hand* tool on the Graphic Map, click and hold the left mouse button, and drag the hand around the Graphic Map to view different areas. Release the mouse button to view the area. You can also use the Arrow Keys (Up, Down, Left, Right) on your keyboard as a shortcut to pan the Graphic Map in the desired direction.

User's Interface

Selection Tool— Allows you to select map features, waypoints, routes and tracks directly on the Graphic Map.

To select an item on the Graphic Map:

1. Place the *Selection* tool on the desired item. The item becomes highlighted in white and the name of the item is displayed in a white box. To view details about a map feature, click the right mouse button on the item and select “*Feature Properties*” from the options menu.
2. To select a waypoint or route for editing, click the left mouse button on the item. The route or waypoint is highlighted in yellow and can be edited.

Waypoint Tool— Allows you to quickly create waypoints on the Graphic Map. For detailed information on creating waypoints using the Waypoint tool, see “Creating Waypoints” in the **Reference** section of this manual.

Route Tool— Allows you to quickly create or use existing waypoints on the Graphic Map to determine a route. For detailed information on creating routes using the Route tool, see “Creating Routes” in the **Reference** section of this manual.

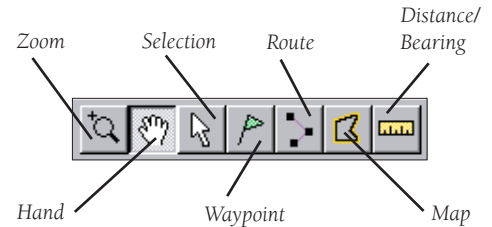
Map Tool— Allows you to select maps to be added to and removed from the Map Set. For more information, see “Creating and Using Map Sets” in the **Reference** section of this manual.

Distance/Bearing Tool— Allows you to measure the distance and bearing from one point to another on the Graphic Map.



NOTE: When using the single letter keyboard shortcut, the graphic map must be selected in order to see the tool on the mouse cursor. You also can toggle between the data tabs panel and the graphic map panel by using the F6 key on your keyboard.

Tools Menu



Tools Toolbar

The tools available in the Tools menu can be accessed through toolbar shortcuts or keyboard shortcuts. To activate a tool, click the shortcut on the toolbar or enter the shortcut on the keyboard.

Tools Keyboard Shortcuts

Zoom — z	Route — r
Hand — h	Map — m
Selection — s	Distance/Bearing — d
Waypoint — w	Unlock Codes — Ctrl + U

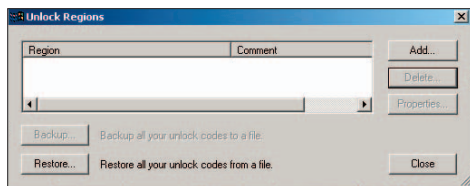
User's Interface

Tools Menu



Distance/Bearing Tool

When using the Distance/Bearing tool, the distance and bearing from a beginning point to the cursor will be displayed in the Status Bar at the bottom of the MapSource application window.



Unlock Regions

To determine a distance and bearing:

1. Place the *Distance/Bearing* tool at a "beginning" point on the Graphic Map and click the left mouse button.

OR:

1. With any tool selected (except the *Zoom* tool), place the cursor at a "beginning" point on the Graphic Map, click the right mouse button and select "*Begin Measurement*."
2. Move the tool/cursor to an "end" point and click the left mouse button. The distance and bearing from the starting point to the finishing point is displayed in the Status Bar.
3. Continue to another "end" point, or click the right mouse button to end the operation. Select "*Cancel*" to stop measuring and keep the measurement displayed on the Graphic Map. Select "*Clear Measurement*" to stop measuring and clear the measurement from the Graphic Map.

Unlock Regions— Activates the Unlock Regions window, where you can view a list of unlocked map data; add, delete, and view the unlock code properties; and backup and restore your unlock codes to a file on your computer. If you unlocked map data during installation, the unlock code will show in the list. If you chose not to unlock maps during installation, if you want to unlock another MapSource region, or if you want to unlock maps for a second Garmin GPS unit, you can do so using the "Unlock Regions" window. See "Unlocking Maps" in the **Getting Started** section of this manual.

Get Unit ID— Retrieves the Unit ID of your GPS unit. Select either Serial Port or USB GPS. Click "OK" to get the Unit ID. Make sure your GPS is connected to an available serial communication port or USB port on your computer. If you see the message "The GPS is not responding," check your communication settings.

Erase Garmin Storage Card— Allows you to erase the entire Garmin storage card in a USB Data Card Programmer.

Rename USB GPS— Allows you to electronically name the Garmin USB GPS. This option is helpful if you have multiple Garmin USB GPS units and need the ability to differentiate between the models when you transfer MapSource information to and from the GPS units.

Set PC Clock— Allows you to synchronize the clock on your PC with the GPS clock. Click “OK” to set the PC Clock. Make sure your GPS is connected to a serial communication port or a USB port (if applicable) on your computer. If you see the message “The GPS is not responding,” you may need to check your Connection Settings.

Help Menu

Contents— Displays the Help Contents tab. A copy of MapSource’s Quick Tour can be found here for easy reference.

Index— Displays the Help Index tab.

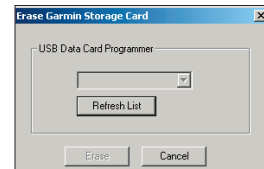
About MapSource— Displays information about the MapSource application, including software version, USB driver versions, and a list of installed products.

Go To MapSource Update Web Page— Jumps to the “MapSource Updates and Downloads” page of the Garmin web site, so you can check for the latest available version of MapSource software to download. To update MapSource, click the “Download” link and follow the directions on your computer screen. **NOTE:** This only updates the MapSource program, not the map data.

User’s Interface

Tools Menu/ Help Menu

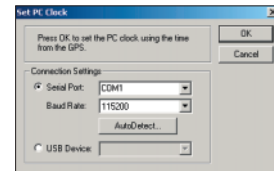
*Erase Garmin
Storage Card*



Rename USB GPS



Set PC Clock



Contents

Index...

About MapSource...

Go To MapSource Update Web Page

Help Menu

User's Interface

Right-Click Menu

Map Feature - "O'Connor's Pub"
Map Feature - "Kiki's Bonton Maison"
Map Feature - "Westport Rd"
Waypoint - "OCONNORS"
Route - "NWPNTG to HUNNWK"

When you click the right mouse button on a location that has multiple features, the first menu shows a list of all those items. Select one of these items and the appropriate right-click menu options will appear.

New Waypoint...
Begin Route
Begin Measurement
Find Nearest Places...

Right-Click: Menu Options

New Waypoint...
Begin Route
Begin Measurement
Find Nearest Places...
Show On Map
Feature Properties...

Right-Click Map Feature: Menu Options

Right-Click Menu

MapSource includes shortcuts to many functions of the main menus through the Right-Click menus. With any tool selected (except the Zoom tool), click the right button on your mouse anywhere on the Graphic Map and a menu of options appears for that feature or location. Right-clicking on an item in one of the Data tabs also activates a menu of options for that item.

When there is more than one map feature at a given location (such as a waypoint that is part of a route), a list of those features appears first, with the name and type of feature. Select the desired feature from the list, and the right-click menus for that feature will appear.

Map Feature Right-Click Menu

By clicking the right mouse button on an open area or on a feature of the Graphic Map (such as a Point of Interest, Exit, Fishing Area or Navigational Aid—not a route, waypoint, or track), the following menu options may appear:

New Waypoint—Creates a new waypoint at the selected map location and accesses the “Waypoint Properties” dialog box.



NOTE: The “New Waypoint,” “Begin Route,” “Begin Measurement,” and “Find Nearest Places” options are default right-click options. They are available by clicking the right mouse button anywhere on the Graphic Map.

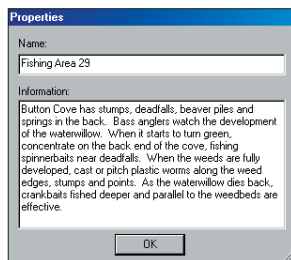
Begin Route— Activates the Route tool and begins a route at the selected map location.

Begin Measurement— Activates the Distance/Bearing tool, allowing you to measure the distance and bearing from the location you selected to another location on the Graphic Map.

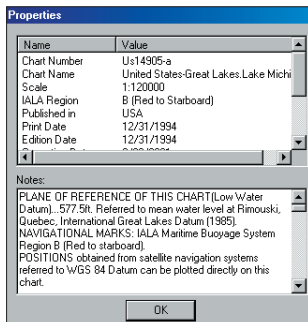
Find Nearest Places— locates nearest features from that given point.

Show on Map— “Zooms” to the selected map feature and centers it on the Graphic Map.

Feature Properties— Activates the Properties for the selected map feature, such as the address and phone number of a Point of Interest, US Interstate exit service info, information about a Fishing Hot Spot or Lake, or details about a Marine Chart.



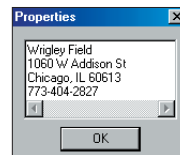
**Map Feature Properties—
Fishing Hot Spots**



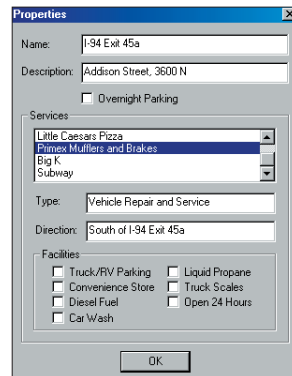
**Map Feature Properties—
BlueChart**

User's Interface

Right-Click Menus



Map Feature Properties—Point of Interest



Map Feature Properties—Exit Services

User's Interface

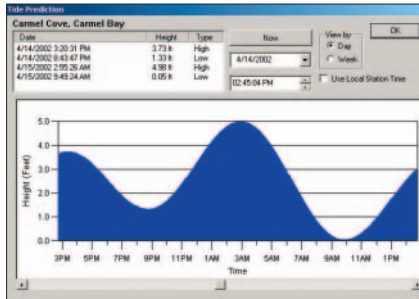
Right-Click Menu



Tide Station Symbol

Predict Tides— If your MapSource product supports this feature, click the *Selection* tool, right-click the Tide Station, select the Tide Station “Name” from the menu, then select “Feature Properties.” On the “Tide Prediction” window, you can also view the tide information for a different time or date, choose to view the information either by day or by week, and choose to view it using the local station time.

Show This Map Only/Show All Maps— This feature applies to BlueChart regions of MapSource, where map areas frequently overlap. With the Map tool selected and a map area highlighted in yellow, right-clicking the map area will access this additional option. Select “*Show This Map Only*” to view detail only within the selected map. To cancel, right-click the map area again and select “*Show All Maps*.”



“Tide Prediction” Window



“Show This Map Only” Feature

Waypoint Right-Click Menu

By clicking the right mouse button on a waypoint on the Graphic Map or a waypoint name in the Waypoints tab list, the following options may appear:

Move Waypoint— Activates the Selection tool and allows you to move the selected waypoint to another location on the Graphic Map.

New Waypoint, Begin Route, Begin Measurement, Find Nearest Places— for finding places and creating routes.

Remove Waypoint From Route— Selecting this option removes the selected waypoint from the route, but does not delete the waypoint (this option is only enabled if the selected waypoint is a route waypoint).

Cut/Copy/Paste— Just like the functions in the Edit menu, these options allow you to cut, copy, and paste waypoints from one active MapSource document to another.

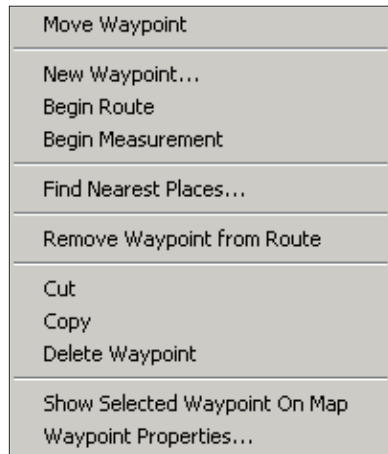
Delete Waypoint— Deletes the selected waypoint.

Show Selected Waypoint on Map— “Zooms” to the selected waypoint and centers it on the Graphic Map.

Waypoint Properties— Activates the “Waypoint Properties,” allowing you to review and edit the properties for the selected waypoint.

User's Interface

Right-Click Menus



Waypoint Right-Click Menu Options

User's Interface

Right-Click Menus

Insert Route Section
Invert Route
Recalculate Route
New Waypoint...
Begin Route
Begin Measurement
Find Nearest Places...
Cut
Copy
Delete Route
Show Selected Route On Map
Route Properties...

Route Right-Click Menu Options

Route Right-Click Menu

By clicking the right mouse button on a route on the Graphic Map or a route name in the Routes tab list, the following options may appear:

Invert Route— Reverses the waypoint order in the selected route. This also reverses the route name, if the route name is the Autoname default “<begin point> to <end point>.”

Recalculate Route— If you have modified the Autorouting Preferences, selecting this option recalculates the selected route according to the new preferences. You can also use this option to have a routable MapSource product recalculate and create an automatic route from a route previously created with another (non-routable) MapSource product.

New Waypoint, Begin Route, Begin Measurement Find Nearest Places—For finding places and creating routes.

Cut/Copy/Paste— Just like the functions in the Edit menu, these options allow you to cut, copy, and paste routes from one active MapSource document to another.

Delete Route— Deletes the selected route.

Show Selected Route on Map— “Zooms” to the selected route and centers it on the Graphic Map.

Route Properties— Activates the “Route Properties,” allowing you to review and edit the properties for the selected route.

Right-Click Menus

New Waypoint...
Begin Route
Begin Measurement

Find Nearest Places...

Cut
Copy
Delete Track

Show Selected Track On Map
Track Properties...

Track Right-Click Menu Options

Additional Right-Click menu options that may appear for a selected route:

Resume Route— By selecting a route and then right-clicking the start or end point of that route, this options appears, allowing you to extend the route to an existing waypoint or map location.

Insert Route Section— By selecting a route, then right-clicking a leg of that route (between two waypoints) on the Graphic Map, this option appears, allowing you to insert a new point in that leg of the route.

Replace Route Section— By selecting a route with at least three waypoints, then right-clicking a waypoint in that route on the Graphic Map, this option appears, allowing you to move the waypoint to a new location.

Track Right-Click Menu

By clicking the right mouse button on a track on the Graphic Map or a track name in the Tracks tab list, the following options may appear:

New Waypoint, Begin Route, Begin Measurement, Find Nearest Places— For finding places and creating routes.

Cut/Copy/Paste— Just like the functions in the Edit menu, these options let you cut, copy, and paste tracks from one active MapSource document to another.

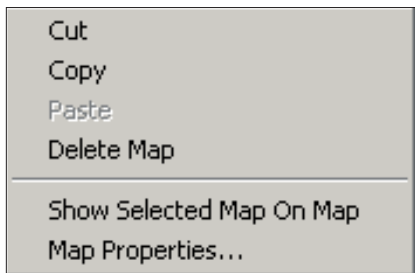
Delete Track— Deletes the selected track.

Show Selected Track on Map— Zooms to the selected track and centers it on the Graphic Map.

Track Properties— Activates the “Track Properties,” allowing you to review and edit the properties for the selected track.

User's Interface

Right-Click Menus



Maps Tab List Right-Click Menu Options

Maps Tab List Right-Click Menu

By clicking the right mouse button on a map name in the Maps tab list, the following options map appear:

Cut/Copy/Paste— Just like the functions in the Edit menu, these options let you cut, copy, and paste maps from one active MapSource document to another.

Delete Map— Deletes the selected map from the Maps tab list.

Show Selected Map on Map— “Zooms” to the selected map and centers it on the Graphic Map.

Map Properties— Activates the “Map Properties,” which shows the name, type of coverage area, and size of the map.

Use this section to learn how to find places, make routes, transfer data, and record tracks by using real-time data.

Moving Around the Graphic Map

Before you can select map sets or create waypoints and/or routes, you must first learn how to move around the Graphic Map. Use any of the following methods to quickly reach your desired destination on the Graphic Map.

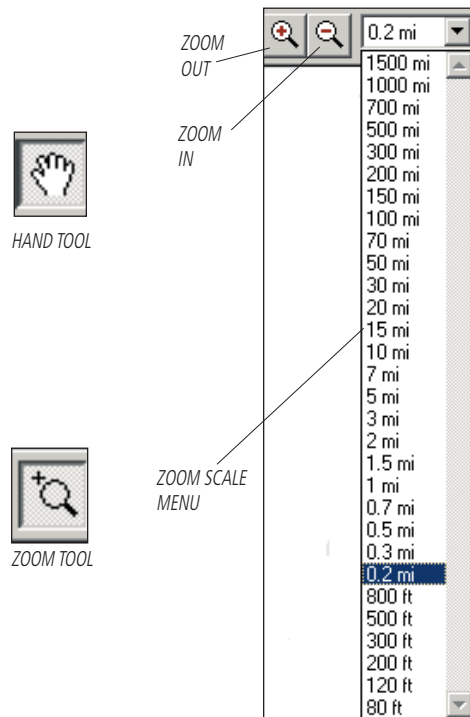
- Use the Hand tool. Your mouse cursor changes to a hand over the graphic map. Press and hold the left mouse button and move the mouse in the direction you want to move the map.
- Use the scroll bars on the right-hand side and at the bottom of the map.
- Use the **Up**, **Down**, **Left**, and **Right** arrow keys on the keyboard. Hold the **Ctrl** button down while pressing a directional key to move a full screen in length.

To ZOOM IN and OUT of the map, you can:

- Press the ZOOM IN or ZOOM OUT buttons on the View toolbar.
- Select the *Zoom* tool from the Tools menu or press the **z** button on your keyboard to activate the zoom. Click the left mouse button once on the map to ZOOM IN and right click once to ZOOM OUT. Click and hold the left mouse button and drag the mouse to create a box over the desired area.
- Use the Zoom Scale menu on the View toolbar to zoom straight to the desired level.
- Press the **Plus** (+) or **Minus** (-) keys on the numberpad of your keyboard. The **Plus** key ZOOMS IN and the **Minus** key ZOOMS OUT.

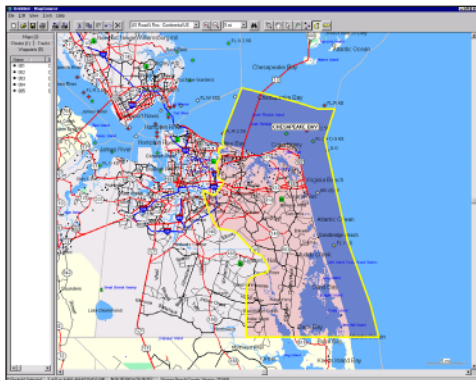
Reference

Moving Around the Map



Reference

Map Sets



Selecting a Detailed Regional Map

When the “Map” tool is placed within the boundaries of a detailed map, the border of the detailed map is outlined in yellow. To select the map, click the mouse while the border is selected. When the map is added to the Map Set, the area of the detailed map will be shaded in pink.

NOTE BLUECHART OWNERS: Once maps are selected they are outlined--not shaded--in pink.

Adding, Removing, and Using Map Sets

A Map Set is one or more detailed area maps that you have selected from the Graphic Map and want to save to your Garmin GPS unit. The detailed areas are determined by the MapSource data that you have loaded. You can select maps from more than one MapSource data source in a Map Set, but you will only see data from one data source on your GPS if the maps overlap. The maps are not transparent on the GPS unit and cannot be combined. If two maps from different MapSource products overlap on the GPS unit, you need to turn the overlapping map off in order to see the other map underneath. Check your GPS unit’s Owner’s manual on how to turn MapSource downloaded maps on or off.

As an example, if you select both Topographical and Roads & Recreational data for the same geographical area, you WILL NOT see a combination of topographic and road data. You only see data from the Roads & Recreation data set. In order to see the Topographical data, turn the Roads & Recreational data off in your Garmin GPS unit.

After selecting map sets from the Graphic Map, the names of the maps are placed in a list form under the Maps data tab on the left side of the screen. You can view the name of the map area, what MapSource program the map comes from, and how much memory it requires for download.



NOTE: *Not all Garmin GPS systems can use detailed maps. Check your GPS Owner’s manual to see if your unit is compatible.*

To select area maps using the Map Tool:

1. Select a Zoom Scale that allows you to view the boundaries of the desired area map (most can be seen at the 30 mile/50 km zoom scale).
2. Choose “Map” from the Tools menu. When the Map tool is located within a detailed map, the borders of the area are outlined in yellow and the map name/memory requirement will be displayed in the Status Bar. The MapSource data that you have loaded determines the geographical map boundaries; note that each product has different boundary areas.



NOTE: *If you have a MapSource product with map areas that are available for purchase separately, you will only be able to select those maps that you have purchased and installed on your computer.*

To add a map to the Map Set/Maps Tab List:

1. Click the left mouse button in the selected area. To choose several maps, click and drag the mouse to draw a box through the different areas on the Graphic Map. As you add maps, they are shaded in pink. The number of maps and the memory required to store the maps is displayed at the bottom of the Maps tab on the left of the screen.

At the bottom of the Maps tab list, you will see the number of selected maps and the required memory for the Map Set.

Reference

Map Sets



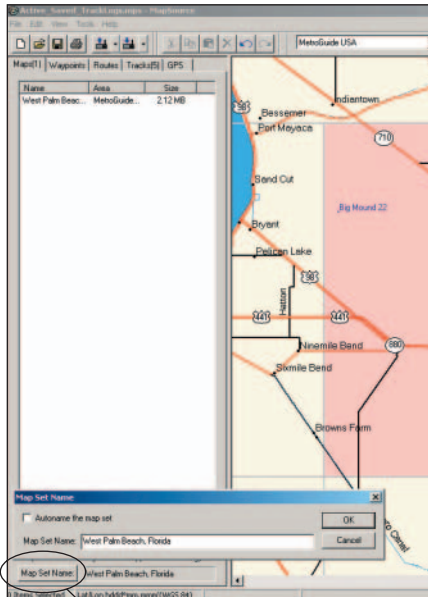
When you have added all the maps to the Map Set that you want, click “Save To” in the toolbar to save the maps to your GPS unit or a storage card.



NOTE: *If you have the MapSource Setup CD, you can view a MapSource Tutorial to show you how to select maps and download them to your Garmin GPS.*

Reference

Map Sets



Naming a Map Set

Removing a map from the Map Set/Maps Tab List:

1. Place the Map tool inside the border of the region that you want to deselect and click the left mouse button. To remove several maps at once, hold the **Ctrl** key and click and drag the mouse to draw a box through the regions on the Graphic Map.

OR:

1. Highlight the desired regional map in the Maps tab list. To select several maps, hold down the **Shift** key on your keyboard and highlight the desired maps. Click the right mouse button and select "Delete Map," or select "Delete Map" from the Edit menu, or press the **Delete** key on your keyboard.

If your GPS unit supports autorouting, check the "Include route calculation data" box located at the bottom of the Maps tab list. If your MapSource product does not support autorouting, this field is disabled.

Naming/Renaming a Map Set

MapSource automatically names a Map Set when it is created. If you want to name or rename a map, go to the Maps tab list. At the bottom of the tab, click "Map Set Name" and enter a new name in the "Name" field. Click "OK."

Map Properties

The name, type of coverage area, and size of the map can be viewed in the "Map Properties" window by doing one of the following:

- Double-click the map name in the Maps tab list
- Highlight the map name and press **Enter**
- Right-click the map name and select "Map Properties"

Transferring MapSource Data

Map sets, waypoints, routes, and tracks can be transferred **to** a Garmin GPS or storage card **from** the MapSource program (Save To), or **from** a Garmin GPS unit or storage card **to** the MapSource program (Open From). Data is transferred in a variety of methods, as shown in the general list below.

Data transfer varies among GPS units. Always check your GPS unit's Owner's manual to see which data transfer options are available.

- If your Garmin GPS unit supports a Serial or USB cable that connects to your computer: Maps, waypoints, routes, and tracks can be transferred to a Garmin GPS unit from MapSource (Save To) and vice versa (Open From). **Note:** If you are sending maps (Save To) to a GPS unit that uses a Garmin data card, the maps are stored on the data card (not the unit). Waypoints, routes, and tracks are stored in the unit.
- If you are using a USB Data Card Programmer: This is a proprietary programmer that is used exclusively with Garmin data cards. Maps, waypoints, routes, and tracks can be transferred to a Garmin data card in the programmer from MapSource (Save To) and vice versa (Open From). However, not all Garmin GPS units can read waypoints, routes, and tracks that have been transferred to the data card (maps can always be read).
- If your Garmin GPS unit supports Compact Flash (CF) or Secure Digital (SD) cards: Only maps can be transferred to a CF or SD card in a Garmin GPS unit from MapSource (Save To) and vice versa (Open From). No other data types can be transferred.
- iQue users: iQue uses a Secure Digital card. Certain data types are transferred to and from the SD card or internal memory in your iQue unit, or to and from your PC, by synchronizing (HotSync[®]) your iQue unit and PC. Data types transfer operations vary; see your Que Applications Guide for more information.

Reference

Map Sets/Transferring Data

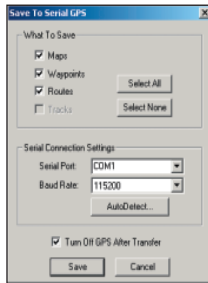


The USB Data Card Programmer will only operate with Windows 98, Windows 2000, Windows ME, or Windows XP.

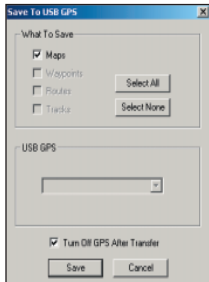
NOTE: *Pre-loaded (pre-programmed) BlueChart or Fishing Hot Spots data cards should not be used in the USB Programmer or in a GPS unit for saving MapSource maps. The pre-loaded data will be lost. If you have a BlueChart or Fishing Hot Spots data card in your GPS unit, remove it before transferring map sets to the unit to avoid losing the pre-loaded data. If you choose to overwrite the pre-loaded data on a BlueChart or Fishing Hot Spots data card, Garmin will not replace or recover the lost data.*

Reference

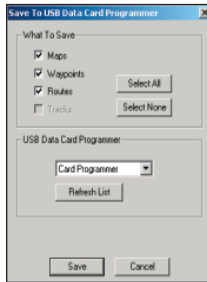
Transferring Data



Save To: Serial GPS



Save To: USB GPS



Save To: USB Data Card Programmer

Information on Garmin Data Cards

You have the option to transfer all data types in MapSource to a removable Garmin data card. Following are the possible scenarios when transferring MapSource data:

- Transferring only maps to the Garmin data card: The data card is completely erased **each time** before adding new maps.
- Transferring maps, waypoints, routes, and tracks: The Garmin data card is completely erased **each time** before adding new maps and new data to the data card.
- Transferring only waypoints, routes, and tracks: Two scenarios exist. 1) If the Garmin data card currently includes stored, then the maps will stay on the Garmin data card and the data will be erased and replaced with new data. 2) If the Garmin data card contains no maps, then the data card is completely erased and replaced with new data.

Pre-Loaded Map Data

If your GPS unit includes a pre-loaded/pre-programmed Points of Interest (POI) database, you will see a warning about erasing the pre-loaded data (not the basemap of the GPS unit) before you save MapSource maps. The pre-loaded data can be recovered to your GPS unit by downloading it from the Garmin web site:

1. Go to www.garmin.com
2. Click "Support," then "Software Updates"
3. Select the name of your Garmin GPS unit
4. Click the "Download" link below "Download Preloaded Marine POI Database."

Any MapSource maps on your GPS unit will be erased and replaced with the POI database.

To transfer MapSource data to a device:

1. If the GPS holds a storage card, be sure the card is inserted correctly into the unit. Also, be sure the unit is properly connected to the computer, and that the unit's transfer mode is set to "Garmin." (Refer to your GPS Owner's manual for further instructions.)
2. Select "Save To" in the File menu and choose your device type. In the "What To Save" dialog box, select the data type for transfer by placing a check mark in the box(es) next to the type of data you want to save, or click "Select All."
3. If saving to a Serial GPS: In the "Serial Connection Settings" dialog box, you can modify the communication settings by selecting a different Port or Baud Rate, or have MapSource automatically detect the Port and Baud Rate of your connection by clicking "Auto Detect."

If saving to a USB GPS: In the "USB GPS" dialog box, the name of your Garmin USB GPS appears along with the unit's software version number (default). If you have the changed the name of the device, the new name appears.

If saving to the USB Card Programmer: The "USB Data Card Programmer" dialog box appears with "Card Programmer."

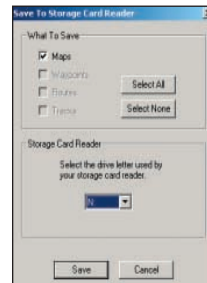
If saving to the Card Reader: In the "Storage Card Reader" dialog box, select the drive letter that obtains the storage card if you have more than one drive on your card reader.

If saving to the iQue: In the "iQue Settings" dialog box, select the "User" name and "Location" of where you want to place the MapSource data, internal or external storage.

4. Under these settings, you can also choose to "Turn Off GPS After Transfer" by placing a check mark in the box. Click "Save" to begin data transfer. As the transfer takes place, MapSource displays a progress indicator and the GPS displays a message indicating that the data is transferring.

Reference

Transferring Data

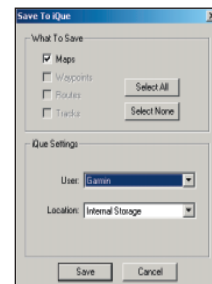


Save To: Card Reader



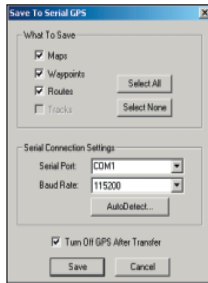
NOTE: In order for MapSource to locate your Card Reader, it must not be set to drive letters A:\ or B:\.

Save To: iQue



Reference

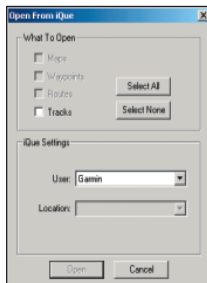
Transferring Data



Open from:
Serial GPS



Open From:
USB GPS



Open From:
iQue

To transfer data to MapSource from a device:

1. If transferring maps from a storage card in a GPS, USB Card Programmer, Card Reader, or iQue, be sure the card is inserted correctly into the unit. Also, be sure the unit is properly connected to the computer and the unit's transfer mode is set to "Garmin." (Refer to your GPS Owner's manual for further instructions.)
2. Select "Open From" in the File menu and choose your device type. In the "What To Open" dialog box, select the data type for transfer by placing a check mark in the box(es) next to the type of data you want to open, or click "Select All."
3. If transferring by Serial GPS: In the "Serial Connection Settings" dialog box, you can modify the communication settings by selecting a different Port or Baud Rate, or have MapSource automatically detect the Port and Baud Rate of your connection by clicking "Auto Detect."

If transferring by USB GPS: In the "USB GPS" dialog box, the name of your Garmin USB GPS appears along with the unit's software version number (default). If you have changed the name of the device, the new name appears.

If transferring by USB Card Programmer: The "USB Data Card Programmer" dialog box appears with "Card Programmer."

If transferring by your Card Reader: In the "Storage Card Reader" dialog box, select the drive letter that obtains the storage card if you have more than one drive on your card reader.

If transferring by the iQue: In the "iQue Settings" dialog box, select the "User" name and "Location" of where you want to place the MapSource data, internal or external storage.

4. Under these settings, you can also choose to "Turn Off GPS After Transfer" by placing a check mark in the box. Click "Open" to begin data transfer. As the transfer takes place, MapSource displays a progress indicator and the GPS displays a message indicating that the data is transferring.

Creating Waypoints

A waypoint is a geographic location stored in memory. Waypoints can be created in MapSource using the Waypoint tool or the “Waypoint Properties” dialog box. When a waypoint is created, MapSource automatically assigns a name to the waypoint based on its location. If you created the waypoint on a map feature, the waypoint name will be an abbreviation of the name of the feature. If the waypoint is created on an open location, MapSource will assign a numeric name to the waypoint. All waypoint properties can be changed, allowing you to customize the waypoint for display and use.

Creating a Waypoint with the Waypoint Tool



The Waypoint tool can be selected three ways: by choosing “Waypoint” in the Tools menu, by clicking on the Waypoint tool icon in the Tools toolbar, or by using the keyboard shortcut, **w**. Using **Ctrl+w** creates a waypoint in the center of the map and the “Waypoint Properties” window automatically appears.

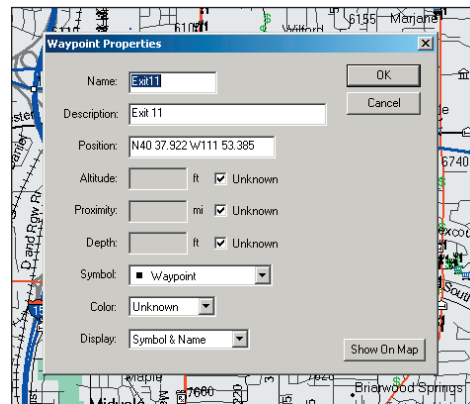
When the Waypoint tool is selected, a flag similar to the Waypoint tool icon will appear beside the mouse pointer on the Graphic Map.

To create a Waypoint on the Graphic Map:

1. With the Waypoint tool selected, position the mouse pointer at a location on the Graphic Map.
2. Click the left mouse button, or click the right mouse button and select “New Waypoint.” In either case, the “Waypoint Properties” dialog box appears.
3. Make any desired changes to the “Waypoint Properties,” then click “OK” to save the new waypoint or click “Cancel” to exit the dialog box.

Reference

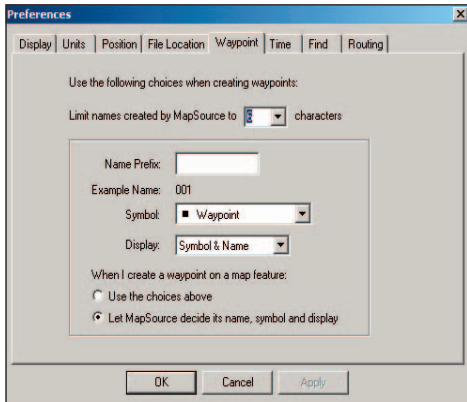
Creating Waypoints



Creating a Waypoint

When you create a Waypoint on the Graphic Map, the “Waypoint Properties” dialog box is displayed. To accept the new waypoint as is, click “OK.” To reject the waypoint click “Cancel.”

Creating Waypoints



Remember that you can set up preferences for creating waypoints in the Waypoint tab under Preferences in the Edit menu.

Creating a Waypoint with the Waypoint Properties

A waypoint can also be created based on the center of the Graphic Map display by using the Waypoint Properties.

To create a Waypoint with the Waypoint Properties:

1. Select "New Waypoint" from the Edit menu. This displays the "Waypoint Properties" dialog box. MapSource assigns a name and location based on the center of the Graphic Map.
2. Make any desired changes to the "Waypoint Properties," then click "OK" to save the new waypoint. To reject the waypoint, click "Cancel."

Waypoint Cautions

- When changing the name or description, remember that Garmin GPS products can only display a limited number of characters. The name or description is truncated in the GPS if it exceeds the unit's limit. If multiple waypoints have identical names after truncation, only one of the waypoints will be stored in the GPS. Refer to your GPS Owner's manual to determine your GPS unit's limitations.
- All MapSource waypoints can contain proximity information. If your GPS is capable of using proximity waypoints and new waypoints that contain a proximity range are saved to your GPS, then all waypoints in the GPS unit's proximity list will be deleted and replaced with the new MapSource waypoints.
- If you select a symbol that does not exist in your GPS, the waypoint will be represented by a square when transferred to your GPS.

Editing Waypoints

Most editing features for waypoints can be performed in the “Waypoint Properties” dialog box. To activate the “Waypoint Properties,” do one of the following:

- Double-click a waypoint name in the Waypoints tab list
- Double-click a waypoint on the Graphic Map
- Highlight a waypoint in the Waypoints tab list or on the Graphic Map, then select “Waypoint Properties” from the Edit menu
- Highlight a waypoint in the Waypoints tab list or on the Graphic Map, then click the right mouse button and select “Waypoint Properties”

Waypoint Properties

Nine properties can be modified for the selected waypoint: Name, Description, Position, Altitude, Proximity, Depth, Symbol, Color, and Display. You can also enter the waypoint on the Graphic Map by clicking “Show on Map.”

Name— Most Garmin GPS systems limit the name to six characters. If the length of the name exceeds the limitations of your unit, the name is truncated when transferred.

Description— Enter a description to help identify the waypoint. Garmin GPS units have a maximum number of characters allowed in the description field. If the description that you enter exceeds the unit limitation, the description is truncated. Refer to your GPS unit’s Owner’s manual to determine your unit’s limitations.

Reference

Editing Waypoints

The screenshot shows the "Waypoint Properties" dialog box with the following fields and values:

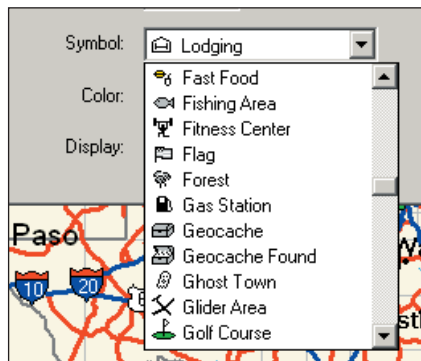
- Name: SkyHar
- Description: Sky Harbor Intl Executive Terminal
- Position: N33 26.260 W112 01.202
- Altitude: [] ft Unknown
- Proximity: [] mi Unknown
- Depth: [] ft Unknown
- Symbol: Airport
- Color: Unknown
- Display: Symbol & Name

Buttons: OK, Cancel, Show On Map

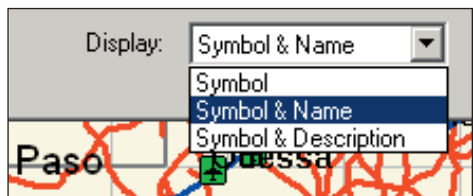
“Waypoint Properties” Dialog Box

Reference

Editing Waypoints



Waypoint Properties: Symbol



Waypoint Properties: Display

Position— The coordinates of the waypoint are displayed in the “Position” field. The coordinates are displayed according to the Position Format set up in Preferences. Enter new coordinates to change the position of the waypoint.

Altitude— If known, you can enter an altitude for the waypoint.

Proximity— Enter a range for a proximity warning. This property is not used by all Garmin GPS systems.

Depth— Enter a depth for underwater waypoints. This is only compatible with GPS/Sounder combination units.

Symbol— Allows you to choose from over 100 different symbols. If you select a symbol that is not supported by your GPS system, it will be represented with a square symbol.

Color— This property allows the user to select from 16 colors for the waypoint. This property does not apply to all Garmin GPS systems. Refer to your GPS Owner’s manual to determine if your unit is capable of displaying waypoint colors.

Display— Allows you to choose how the waypoint will be displayed. You can choose from three settings: Symbol only, Symbol and Name, or Symbol and Description.

Show On Map— Enters the waypoint on the Graphic Map while keeping the “Waypoint Properties” window open. This action also centers the new waypoint on your Graphic Map so you may need to move the “Waypoint Properties” window to see the waypoint on the map.

Creating Routes

You can create a route in MapSource by using the Route tool on the Tools toolbar, or by using the “Route Properties” dialog box. Depending on your MapSource product, you can create a direct route (a straight-line route or “As the crow flies”), or an automatic route (turn-by-turn).



NOTE: *Not all MapSource products can create an automatic route. You must be using a routable MapSource product for MapSource to automatically calculate a route.*

Using the Route Tool



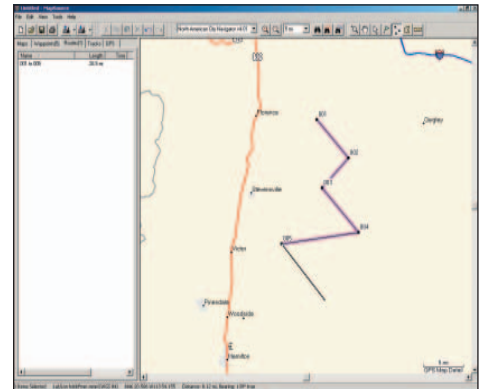
The Route tool can be selected in several ways: by choosing *Route* from the Tools menu, by clicking the Route tool icon in the Tools toolbar, and by using the keyboard shortcut, **Ctrl+r**. You can also start a route by clicking the right mouse button on the desired starting point on the Graphic Map and then selecting *Begin Route*.

To create a direct route with the Route Tool:

1. After selecting the *Route* tool, click the waypoints or map locations in the sequence you want them to appear in the route. If a waypoint does not exist where you click on the map, a new waypoint will be created at that location. As you continue, route legs are created in a direct line from one point to the next.
2. When you have entered all of the points that you want in the route, press **Esc** on your keyboard or right-click the last point on your route and select “*Cancel*.” The route is created and automatically named using the names of the first and last waypoints.

Reference

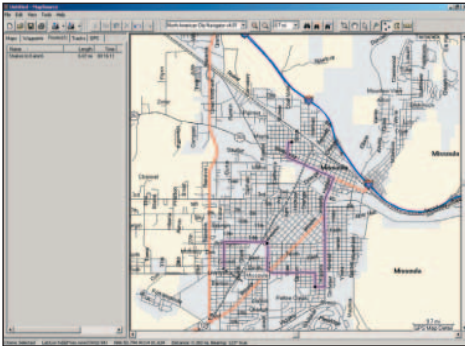
Creating Routes



Creating a Direct Route with the Route Tool

Reference

Creating Routes



Creating an Autoroute with the Route Tool

To create an automatic route with the Route Tool:

1. Follow directions in the previous section: "To create a direct route with the Route Tool."
2. With a routable MapSource product, MapSource automatically calculates a turn-by-turn route. The auto-route is displayed on the Graphic Map **along the roads it follows**, instead of showing a direct line from one point to the next. Detailed information about an auto-route's turns can be viewed in the "Directions" tab in "Route Properties."

Using the Route Properties

You can create a route with the Route Properties by inserting waypoints and, with some MapSource products, you can also insert points of interest, cities, or addresses through the Find feature. Start a new route with the Route Properties by selecting *New Route* in the Edit menu (or by using **Ctrl + R**). This will open the "Route Properties" dialog box.

To create a direct route (straight line) with the Route Properties:

1. With the "Route Properties" dialog box displayed, click "*Find*."
2. Under the Waypoint tab, type in the name of the waypoint you want to find, or click "*Select*" to display the "Select Waypoint" dialog box. The waypoint or a list waypoints appears.
3. Highlight and double-click the waypoint that you want to insert, then click "*Find*" again to search. The waypoint appears in the "Places" box in the Waypoint tab.
4. Highlight the new waypoint and click "*Add to Route*" to add the waypoint to the route. If enabled, you can also use "*Find*" to search for a city or point of interest to add to the route. The route points or "Via Points" are listed in "Route Properties" as they are added to the route.

- Repeat steps 1-4 to add Via Points to the end of the route. When finished, click "OK" to save the new route.

To create an automatic route with the Route Properties:

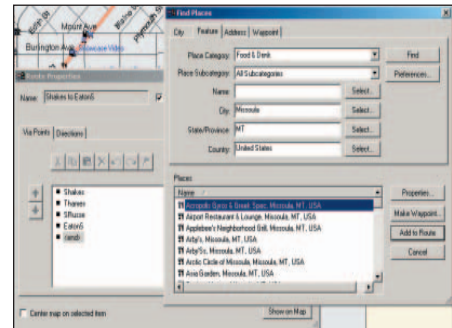
- Follow the previous directions: "To create a direct route with the Route Properties."
- With a routable MapSource product, MapSource automatically calculates a turn-by-turn route. As you add points, the directions and turns are listed between each waypoint in the "Directions" tab of the "Route Properties" dialog box. The automatic route displays the roads it follows on the Graphic Map instead of showing a direct line from one point to the next.

To add a map location to an automatic route with the Route Properties:

- Under the "Via Points" tab, select a point in the route where you want to add a map location. To add a map location at the end of the route, highlight the blank space at the end of the route list. To add a point anywhere else, click the Via Point in the list that follows the location you add.
- Click "Find." The "Find Places" dialog box appears, allowing you to search, if applicable, for a city, point of interest, address, or waypoint to add to the route.
- When you have found the desired map location, click "Find" to add it to the "Places" list.
- Click "Add to Route" in the advanced "Find Places" dialog box. The map location is added directly before the point you selected in the route.
- Click "OK." MapSource automatically calculates the new location into the route.

Reference

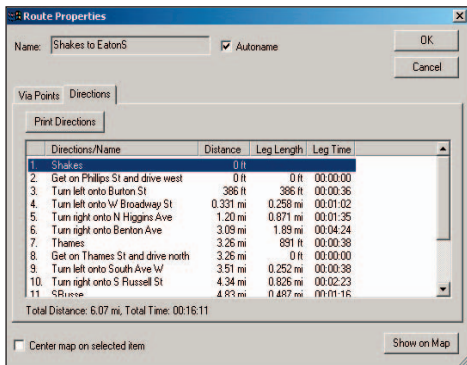
Creating Routes



Route Properties: Find Feature

Reference

Editing Routes



The “Route Properties” Dialog Box with a Routable MapSource Product

When using a routable product, the “Route Properties” dialog box shows directions and turns from one waypoint to the next in the selected route. It also allows you to print the directions to your local printer.

Naming a Route

If the “Autoname” checkbox is marked, MapSource automatically names the route using the names of the first and last waypoints entered in the route. To enter a different name, remove the mark from the “Autoname” checkbox in the “Route Properties” window and enter a name in the “Name” field.

Inverting a Route

You can reverse the order of the route waypoints by clicking “Invert.” This feature is convenient when you want to navigate a route in the reverse direction. When finished, click “OK” to save the route.

Viewing and Printing Directions of an Auto-Route (Turn-by-Turn)

If your MapSource product supports turn-by-turn directions, you have the opportunity to view and print the directions of the auto-route you created. After selecting the “Directions” tab in the Route Properties, the information displayed is “Directions/Name,” “Distance,” “Leg Length,” and “Leg Time.” Click “Print Directions” to send the turn-by-turn directions to your printer.

Editing Routes

Routes can be edited on the Graphic Map using the Selection tool. You can choose the Selection tool by clicking the Selection tool icon from the Tools toolbar, by choosing “Selection” from the Tools menu, or by using the keyboard shortcut, **Ctrl+s**. The Selection tool allows you to: add waypoints to the beginning, middle, or end of a route; remove a waypoint from a route; and move a waypoint to a new location in a route.

To insert waypoints into an existing route:

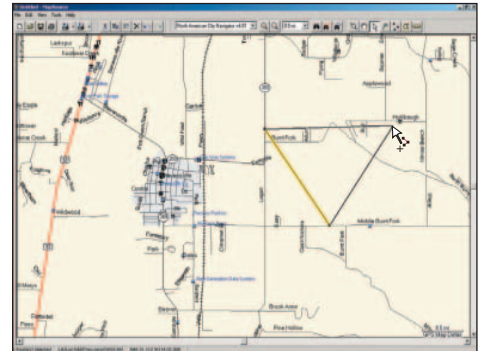
1. With the Selection tool activated, select the route in the Routes tab list or on the Graphic Map by clicking on it with the left mouse button. When the route is selected, it is highlighted in yellow.
2. Click the left mouse button on the route leg you want to add a waypoint to, or click the right mouse button on the route leg and select "*Insert Route Section.*" The mouse pointer now has the "plus sign" (+) and a small icon of the Route tool below it. The route leg will "rubber band," allowing you to stretch it to an existing waypoint or a map location.
3. When you have the mouse pointer at the desired position, click the right mouse button and select "*Add to Route,*" or simply click the left mouse button to add the point to the route leg.
4. Repeat these steps to insert additional waypoints. Click the left mouse button away from the route or press the **Esc** key on your keyboard to quit and save the changes to the route.

To extend a route (add a waypoint to the beginning or end of a route):

1. With the Selection tool activated, select the route in the Routes tab list or on the Graphic Map by clicking on it with the left mouse button. When the route is selected, it is displayed in yellow.
2. Left-click the first or last waypoint in the route, or right-click the first or last waypoint in the route and select "*Resume Route.*" The mouse pointer will now have the "plus sign" (+) and a small icon of the Route tool below it.
3. Move the extension line to an existing waypoint or a map location. Click the right mouse button and select *Add to Route,* or just click the left mouse button to anchor the route leg.
4. Repeat these steps to add more waypoints. Click the right mouse button and select *Cancel,* or press the **Esc** key on your keyboard to quit and save the changes to the route.

Reference

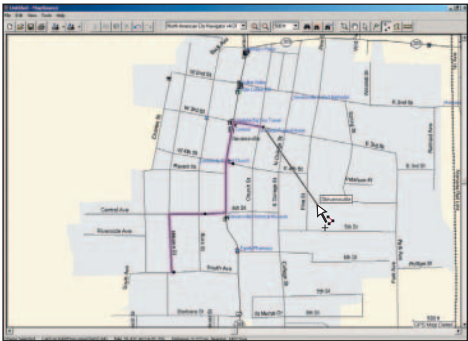
Editing Routes



Adding a Waypoint to a Route

Reference

Editing Routes



Extending a Route

To remove a waypoint from a route:

1. With the mouse pointer located on the route waypoint that you want to remove, click the right mouse button and select "*Remove Waypoint From Route.*"

OR:

1. Click the left mouse button on the waypoint (highlighted in yellow). Select "*Remove Waypoint From Route*" from the Edit menu.

To move a waypoint to another location in a route:

1. With the Selection tool activated, select the route in the Routes tab list or on the Graphic Map by clicking on it with the left mouse button. When the route is selected, it is highlighted in yellow.
2. Left-click the waypoint you want to move, or right-click the waypoint and select "*Replace Route Section.*" The mouse pointer will now have a curved arrow and a small icon of the Waypoint tool below it. The route leg will "rubber band," allowing you to move the waypoint to a new location.
3. Position the mouse pointer where you want to move the waypoint. Click the right mouse button and select "*Add to Route,*" or just click the left mouse button to move the waypoint.

Editing Routes with the Route Properties

Many editing functions for routes can be performed in the "Route Properties" dialog box.

To edit a Route with the Route Properties:

1. Select the route in the Routes tab list or on the Graphic Map.
2. Choose "*Route Properties*" from the Edit menu, or click the right mouse button and select "*Route Properties.*"
3. Make the desired changes and click "*OK*" to save the changes and exit.

Name— To change the route name, make sure the Autaname checkbox is not marked and type in a new name.


Center Map on Selected Item— With this box checked, when you select a Via Point in the route, it automatically is centered on the map where you view the “Route Properties.”

OK— Select this button to save changes to the route and exit the “Route Properties” window.

Cancel— Select this button to cancel any changes made to the route and exit the “Route Properties” window.

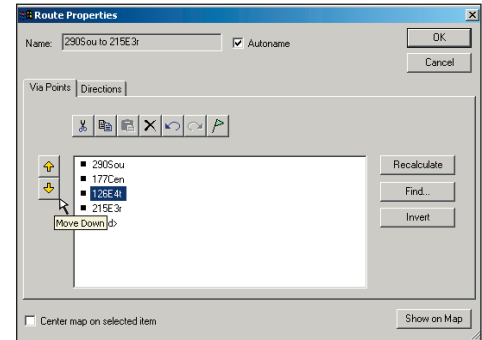
Cut/Copy/Paste/Delete/Undo/Redo— editing buttons that also appear in the Edit menu. These options let you cut, copy, paste, and delete Via Points in the current route. You can also undo and redo these editing actions. These options can be used for the following purpose:

- To move one Via Point from its current location to another location within the route. You can also use the yellow up and down arrows to the left to adjust the Via Point up or down one level.
- To remove a Via Point from the current route.
- To undo the last action. The Redo option is available after an Undo action. This option is simply “Redo the Undo.”

Via Point Properties— Select the waypoint in the route list and click “Via Point Properties.”  The “Via Point Properties” for the selected waypoint appears, allowing you to review and edit the waypoint.

Find— This button allows you to search for a city, point of interest (if applicable), address (if applicable), or another waypoint to add to the route.

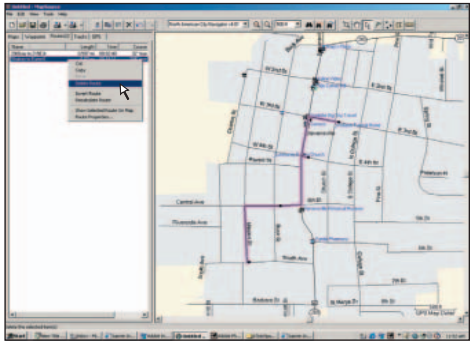
Editing Routes



Route Properties: Via Points

Reference

Deleting Routes



Deleting a route from the Route Tab

Recalculate— If you have modified the Autorouting Preferences in the Edit menu, you may recalculate an existing route according to the new preferences by clicking “*Recalculate*.” You may also use the “*Recalculate*” to have a routable MapSource product change a direct route into an automatic route. This feature only applies to routable MapSource products.

Invert— Reverses the waypoint order, making the last waypoint become the first waypoint in the route.

Show On Map— Centers the map on the selected route.

Deleting a Route

You can delete a route on the Graphic Map or in the Routes tab list.

To delete a Route:

1. With the Selection tool activated, select the desired route in the Routes tab list or on the Graphic Map by clicking on it with the left mouse button. When the route is selected, it is highlighted in yellow.

Do one of the following:

2. Press the **Delete** key on your keyboard; select *Delete Route* from the Edit menu; click the right mouse button on the highlighted route either on the Graphic Map or in the Routes tab list and select *Delete Route*; or click “*Delete*” in the Edit toolbar.

Tracks and Real-Time Tracking

Tracks can be used in two ways: you can transfer any track created on your Garmin GPS into MapSource, or create a track using your Garmin GPS and the Real-Time Tracking feature in MapSource. Those tracks, and any tracks transferred to MapSource from a GPS, are listed in the Tracks tab list.

When Real-Time Tracking is enabled, MapSource reads information from the GPS, shows the GPS as a red triangle on the Graphic Map, displays the tracking data in the GPS tab, and records a track.

In order to do real-time tracking with a locked MapSource product, you must do the following:

- Have a valid unlock code for your GPS unit installed in MapSource
- Receive real-time information from a Garmin GPS unit that supports locked maps
- Place the GPS unit in Garmin transfer mode, not NMEA mode

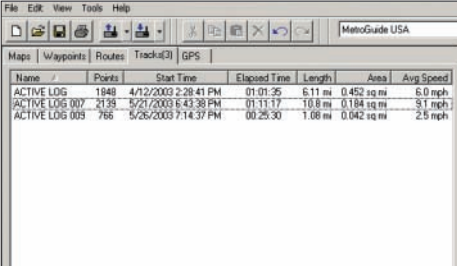
Recording a Track

To start Real-Time Tracking:

1. Check that your GPS is properly connected to a serial or USB port (if applicable) on your computer. Set the "Serial Data Format" or "USB Data Format" on your GPS to either Garmin or NMEA format. MapSource automatically reads the data format so you don't need to set up the format in MapSource. Only the more recent Garmin GPS's will output data in Garmin format.
2. Select the GPS tab and click "Select Device." Select your connection type. Click "Serial Port" for any Garmin GPS unit connected to a serial port. Select the correct Comm port and baud rate, or have MapSource locate your Garmin GPS unit automatically by clicking "Auto Detect."

Reference

Tracks/Real-Time Tracking



The screenshot shows the MapSource software interface with the 'Tracks' tab selected. The window title is 'MemoGuide USA'. The menu bar includes 'File', 'Edit', 'View', 'Tools', and 'Help'. The toolbar contains various navigation and editing icons. Below the toolbar, there are tabs for 'Maps', 'Waypoints', 'Routes', 'Track(3)', and 'GPS'. The 'Track(3)' tab is active, displaying a table with the following data:

Name	Points	Start Time	Elapsed Time	Length	Area	Avg Speed
ACTIVE LOG	1948	4/12/2003 2:28:41 PM	01:01:35	6.11 mi	0.452 sq mi	6.0 mph
ACTIVE LOG 007	2135	5/21/2003 6:43:38 PM	01:11:17	10.8 mi	0.184 sq mi	31 mph
ACTIVE LOG 009	766	5/26/2003 7:14:37 PM	00:25:30	1.08 mi	0.042 sq mi	2.5 mph

Tracks Tab List

DOP— (Dilution of Precision) This measures satellite geometry quality (the number of satellites received and their location in relation to each other) on a scale from one to ten; the lower the number, the better the accuracy (not available in Garmin format).

Keep Vehicle Visible on Map— With this function selected, the vehicle (red triangle) remains centered on the Graphic Map during real-time tracking, and the map display continually changes to show where your vehicle is traveling. Check/uncheck the box to select/deselect this feature.

Record Track— Check this box to select or deselect this function to have MapSource record the track that your GPS is navigating. MapSource automatically assigns a track name and displays it in the Tracks tab list.

Filter— Select this option to filter the track to your needs. The options available are by “Time” (in seconds), “Distance” (in feet), or “Automatic” (MapSource determines when to drop the points using fewer or more points).

Select Device— Select this button to determine how MapSource detects your Garmin GPS unit either by a Serial port or USB port (if applicable).

Viewing a Track on the Graphic Map

To view a Track on the Graphic Map:

1. Highlight the track name in the Tracks tab list.
2. Select “*Show Selected Track on Map*” by right-clicking on the track or from the View menu. The track will be centered on the Graphic Map and highlighted in yellow. ZOOM IN to view track points and track legs.

GPS Tab

Maps(41) | Waypoints(4)
Routes(1) | Tracks(4) | GPS

Stop Tracking

3D Navigation

Speed 30.0 mph | Altitude 1085 ft

Track 0° true

N 38 51.338 W 94 47.929
7/28/2003
2:11:17 PM

EPE 14.6 ft | DOP

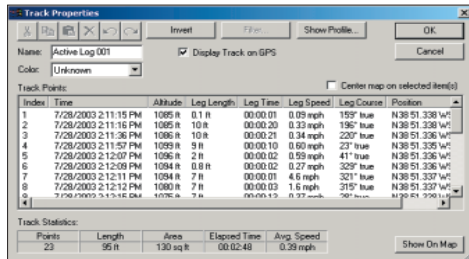
Keep vehicle visible on map
 Record track

Filter... | Select Device...

Real-Time Tracking on the GPS Tab

Reference

Track Properties



“Track Properties” Window

Viewing and Editing Track Properties

The “Track Properties” window lets you change the track name, assign a color (if your GPS can display colors), invert the track, view a vertical profile of the track, and view and edit track points. “Track Properties” can be activated by doing one of the following:

- Highlight a track in the Tracks tab or on the Graphic Map, then select “Track Properties” from the Edit menu.
- Highlight a track in the Tracks tab or on the Graphic Map, then click the right mouse and select “Track Properties” from the menu.
- Double-click the left mouse button on the track name in the Tracks tab or on the track displayed on the Graphic Map.

Below are the available properties:

Name— displays the track name.

Color— choose from 16 colors for displaying the track on your Garmin GPS unit.

Display Track on GPS— keeps the track displayed on the GPS.

Center Map on Selected Item(s)— with this option selected, any time a track point is highlighted it is automatically displayed in the center of the Graphic Map while you view the “Track Properties.”

Invert— reverses the order of the track points.

Filter— allows you to filter the current track points by “Time,” “Distance,” “Automatic,” or “Maximum Points.”

Track Properties

Show Profile— displays a vertical profile of the track. ZOOM IN and OUT to adjust the distance and altitude scales, and choose to show or hide track points. Click the left mouse button on the profile to view the distance and altitude at that location (you may need to move the scroll bars to view the entire profile, depending on the zoom scale).

Track Points— shows details of each track point. When points are highlighted, the selected leg of the track is highlighted in blue on the Graphic Map and the editing buttons are enabled.

Track Statistics— shows overall statistics of the current track. This options gives information like Total Number of track points, Length, Area, Elapsed Time, and Average Speed. You can narrow the statistics to a certain portion of the track by holding the **Ctrl** button and left clicking on the desired track points in the list above.

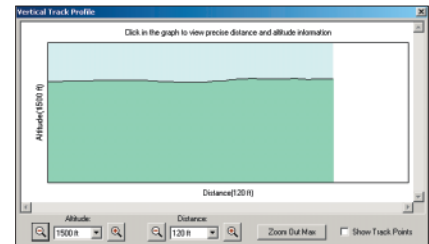
Cut/Copy/Paste/Delete/Undo/Redo— editing buttons like the functions in the Edit menu. These options let you cut, copy, paste, and delete portions of the track. You can also undo and redo these editing actions.

Show on Map— select this button to view the revised track on the map while keeping the “Track Properties” window open.

OK— saves the changes and closes the “Track Properties” window.

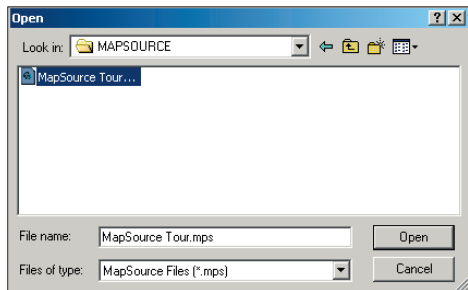
Cancel— cancels any changes and closes the “Track Properties.”

“Track Properties” Right-Click Menu— by clicking the right mouse button in the “Track Properties” window, the following options map appear: Cut, Copy, Delete, Paste and Select All.



“Vertical Track Profile” Window

MapSource Documents



“Open” Dialog Box

Saving and Opening MapSource Documents

To save a MapSource document:

1. Choose “Save” from the File menu or click “Save” in the File toolbar.
2. Select a location for your MapSource document, name the MapSource file, and click “Save.”

To open a previously saved MapSource document:

1. Choose “Open” from the File menu, or click “Open” in the File toolbar.
2. Select the saved MapSource document and click “Open.”

If you have a document open, MapSource closes the open document. If the open document data needs to be saved, MapSource prompts you before closing the document. Only one document can be open in MapSource at a time, but you can run several instances of MapSource simultaneously, allowing you to easily trade information.



NOTE: If you open a MapSource document with locked maps, and you don't have an Unlock Code for that map data, MapSource will still display the non-locked features of that file (waypoints, routes, etc.)

Printing the Graphic Map

The Print, Print Preview, and Print Setup options function like other Windows applications. Choose “*Print Setup*” to select a printer and set printing properties. You may need to change the DPI settings for the image to print. To preview what will be printed, select “*Print Preview*.” To print the current Graphic Map Display, select “*Print*” from the File menu. Only a representation of the Graphic Map can be printed from MapSource.

Importing a Garmin PCX5 Data File

You can import a Garmin PCX5 data file to MapSource, but no other data file types are supported for import to MapSource.

To Import Garmin PCX5 Data:

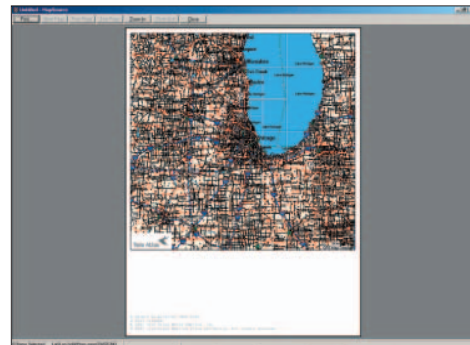
1. Choose “*Import*” from the File menu. If you have set up your PCX5 data files in the Default File Location (in the File Location tab under “*Preferences*” in the Edit menu), that location automatically appears.
2. Select the PCX5 data file and click “*Open*.” MapSource can display PCX5 waypoints (.wpt), routes (.rte), tracks (.trk), or one of the map outlines provided with PCX5 (.grm).



NOTE: *If using a PCX5 map outline, turn off any MapSource map data, to avoid screen clutter.*

Reference

MapSource Documents



Print Preview

Appendices

Appendix A: Keyboard Shortcuts

File Menu

New Document	Ctrl + N
Open Existing Document	Ctrl + O
Save Document	Ctrl + S
Print Graphic Map	Ctrl + P
Open From Device	Ctrl + Shift + O
Save To Device	Ctrl + Shift + S

Edit Menu

Undo	Ctrl + Z
Redo	Ctrl + Y
Cut	Ctrl + X
Copy	Ctrl + C
Paste	Ctrl + V
New Waypoint	Ctrl + W
New Route	Ctrl + R
New Track	Ctrl + Shift + T
Delete	Del
Remove Waypoint from Route	Ctrl + Del
Select All	Ctrl + A
Preferences	Ctrl + Shift + P

View Menu



























Zoom To Selected Items	Ctrl + D
Go To Position	Ctrl + T
Zoom In	+
Zoom Out	-
Zoom In Max	Ctrl + +
Zoom Out Region	Ctrl + -
GPS Map Detail	Ctrl + G
Show Crosshair	Ctrl + H
Find Places	Ctrl + F
Find Nearest Places	Ctrl + Shift + F

Tools Menu

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Waypoint Tool	w
Route Tool	r
Map Tool	m
Distance/Bearing Tool	d
Unlock Codes	Ctrl + U































Appendices

Appendix B: Map Legends Businesses and Attractions

	Air Transportation		Hospital
	Amusement Park		Library
	Auto Rental		Live Theater
	Auto Repair		Lodging
	Bank & ATM		Marina
	Bar & Nightclub		Movie Theater
	Campground or RV Park		Museum & History
	Department Store		Parking
	Dining		Park & Garden
	Gas Station		Pharmacy
	Golf Course		Post Office
	Grocery Store, Shopping		School, College, or University
	Ground Transportation		Zoo or Aquarium

Appendices

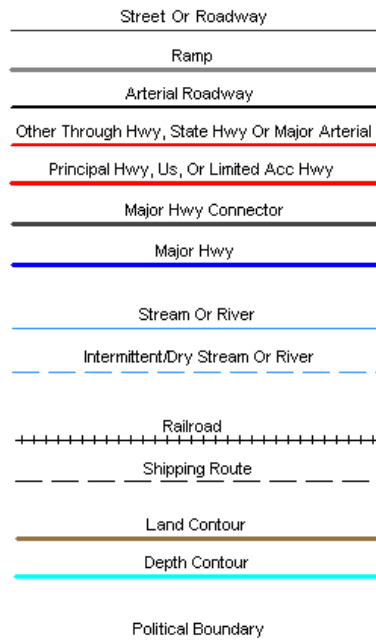
Appendix B: Map Legends Points of Interest

	Airport		Fuel
	Boat Ramp		Information
	Campground		Marina
	Dam		Park
	Danger Area		Parking
	Day Beacon, Green Square		Picnic Area
	Day Beacon, Red Triangle		Restroom
	Day Beacon, White Diamond		Scenic Area
	Dining		Showers
	Drinking Water		Skiing
	Exit		Swimming
	Facilities		Telephone
	First Aid		Toll Booth
	Fish		Weigh Station
	Fishing Area Info		Wreck



Color map legends can be viewed in MapSource HELP.



































Appendix B: Map Legends Lines and Areas



























Appendices

Appendix B: Map Legends Navigational Aids and Obstructions

Color map legends can be viewed in MapSource HELP.

 Day Beacon, Green Square	 Racon or Radio Beacon
 Day Beacon, Red Triangle	 Rock Awash
 Day Beacon, White Diamond	 Rock Submerged At Lower Water
 Fog Horn	 Sounding
 Lit Navaid, Blue	 Submerged Wreck, Dangerous
 Lit Navaid, Green	 Submerged Wreck, Non-Dangerous
 Lit Navaid, Multi-Colored	 Unclassified Obstruction
 Lit Navaid, Orange	 Unlit Navaid, Black
 Lit Navaid, Red	 Unlit Navaid, Green
 Lit Navaid, Violet	 Unlit Navaid, Multi-Colored
 Lit Navaid, White	 Unlit Navaid, Orange
 Lit Navaid, Yellow or Amber	 Unlit Navaid, Other
 Navaid, Unknown Classification	 Unlit Navaid, Red
 Obstruction, Awash	 Unlit Navaid, White
 Obstruction, Cleared By Wire-Drag	 Unlit Navaid, Yellow or Amber
 Obstruction Submerged	 Visible Wreck
 Obstruction, Visible at High Water	 Wreck, Cleared By Wire-Drag

In addition to the symbols in the Navigation Aids and Obstructions Legend, the following are some of the symbols found in MapSource BlueChart marine data:

	Airport/Seaplane Base		Fishing Harbor
	Anchorage Berth		Fishing Prohibited
	Anchoring Prohibited		Heliport
	Beacon		Information
	Building		Marina Information
	Buoy		Pilot Boarding Area
	Church		Precautionary Area
	Danger		Radio Report Point
	Dangerous Rock		Recommended Anchorage
	Explosive		Rescue Station
	Exposed Rock		Tide Station
	Exposed Wreck		Yacht Harbor

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Appendix B: Map Legends BlueChart Symbols

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