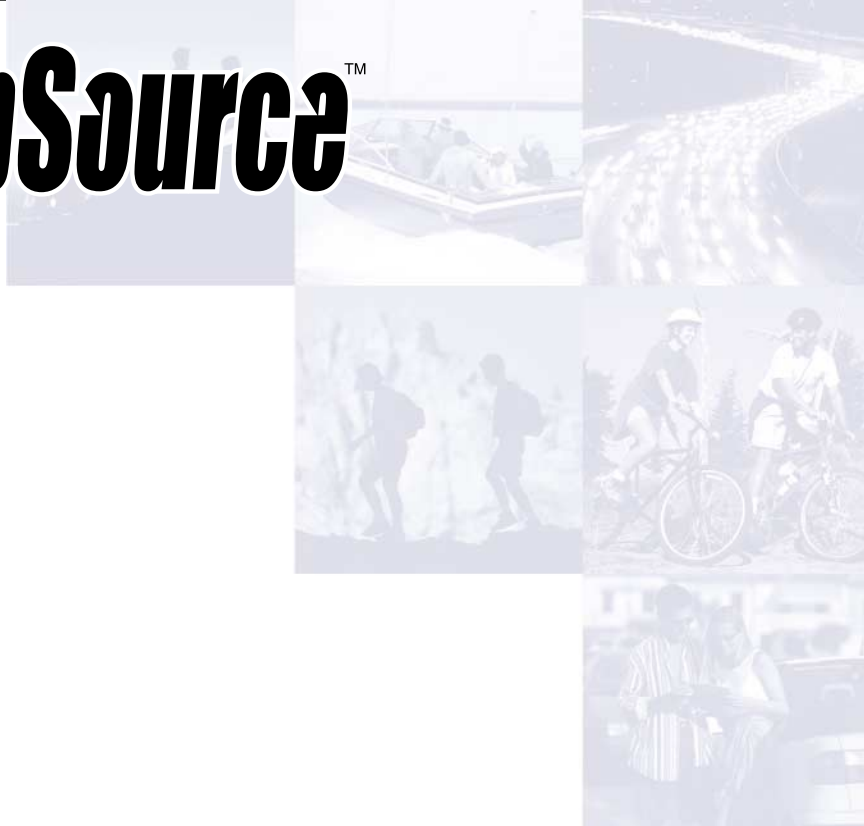




*MapSource*TM

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, which augments the information already on your GARMIN GPS basemap. With MapSource, you can view existing waypoints, routes and tracks on the graphic map or quickly create new waypoints or routes with a click of the mouse. Editing and managing your waypoints and routes is made easy with MapSource. This manual is organized into five sections for your convenience:

Introduction—gives a quick overview of MapSource and contains the Table of Contents and important information pertaining to the use of MapSource data.

Getting Started—takes you through installing MapSource and describes the MapSource Interface.

Quick Tour—walks you through the basic functions of MapSource.

Reference—provides details about the functions of MapSource.

Appendices—contains the map legends for MapSource, Keyboard Shortcuts and the Index.

We hope you enjoy MapSource and thank you again for choosing GARMIN!

Introduction

Customer Service

Contact GARMIN

If you should encounter any difficulty while installing MapSource, or if you have any questions about MapSource, contact GARMIN's Customer Service Department by phone at 913-397-8200 or 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

Warnings and Cautions

Map Data Information: One of the goals of GARMIN 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 an item is mislocated or misidentified, it will be incorrectly identified or missing in the GARMIN cartography product as well. Each product has 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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The following Warnings and Cautions may apply to some or all of the content in the MapSource BlueChart™ CD-ROM:

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Introduction

Warnings and Cautions

BlueChart™

Introduction

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Compatibility

Waypoint/Route/Track Management

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.

Map Transfer

Not all GARMIN GPS systems are compatible with this feature. Please consult your GPS Owner's Manual to determine if your unit is able to use this feature.

GARMIN Data Cards, available for use with selected GARMIN GPS systems, and the GARMIN USB (Universal Serial Bus) Data Card Programmer, can only be used to transfer and store map data. They will not store Waypoints, Routes or Tracks. This type of data can be transferred to or from the GPS unit for storage or retrieval.

Installation and Removal of Program

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, Windows ME or Windows NT 4.0. An available serial port is required for interfacing with a 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 or Windows ME and a USB (Universal Serial Bus) Port.

Getting Started

Compatibility and Installation Requirements



USB Data Card Programmer

Getting Started

Installation and Removal



Install Welcome Screen



'Run' Dialog Box

To Install the MapSource Software:

1. Insert the MapSource CD-ROM into your computer's CD-ROM drive.
2. Your computer should automatically run the start-up file and display a welcome screen. If for some reason it doesn't run automatically, click the **Start** button and select "**Run...**" then type in the drive letter of your CD-ROM drive followed by "setup" (for example, "d:\setup"), and press **ENTER**.
3. Follow the directions on your computer screen.
4. If you have purchased multiple MapSource products, repeat steps 1-3 for the additional CD-ROM(s). "Full Install" copies all files to your hard drive, so the CDs won't be required to run the program.
If your MapSource product comes with more than one CD, installation will only occur from the first disc. The other MapSource discs will be needed for running the program after installation.

To Remove MapSource from Your System:

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

Connecting the GPS to a Computer

To connect your GPS to your computer:

1. Using the PC Interface Cable, connect your GPS to a serial communications port on your computer.
2. To be sure you have a good connection, you can have MapSource automatically detect the GPS on the COM port. Check that your GPS is powered on and the Serial Data Format is set to GARMIN.
3. Select *Preferences* in the Edit Menu and click the 'Transfer' tab.
4. Click the **Auto Detect** button. The 'Auto Detect' window appears, showing which COM port your GPS is connected to and the software version of your GPS. Click **OK** to set the COM port and exit.

Unlock Codes

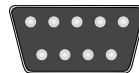
Some MapSource products require a code to “unlock” a region of map data before it may be viewed on your PC and downloaded to a GPS unit. Those products come with a MapSource unlock certificate with a “coupon code” that is necessary for obtaining the Unlock Code. You must also know the Unit ID for the GPS unit that will be using the unlocked data, and the Map Region you want to unlock. To obtain an Unlock Code, follow the instructions on the unlock certificate included with your CD(s).



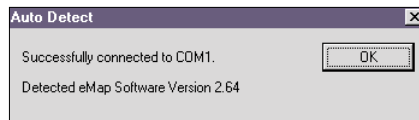
Keep your Unlock Certificate and Unlock Code in a safe place. You may need this information in the future if you need to re-install MapSource. GARMIN cannot give refunds or exchanges for MapSource Unlock Codes.

Getting Started

PC to GPS Connection/ Unlock Codes



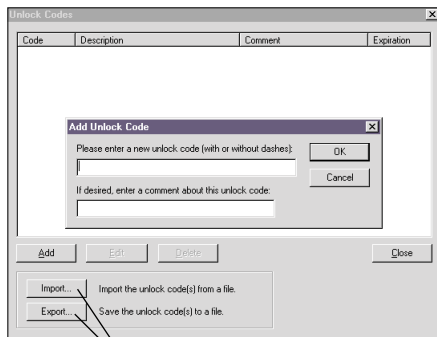
Serial Communications Port



'Auto Detect' Window

Getting Started

Unlock Codes



Import and Export Buttons

Click the **Import** button to add Unlock Code(s) from a saved file on your computer.

To save Unlock Code(s) to a file on your computer, click the **Export** button.

To Enter an Unlock Code and Unlock a Map Region:

1. Once you have installed MapSource and obtained an Unlock Code, open MapSource.
2. Select *Unlock Codes* from the Tools Menu or press **Ctrl** and **U**.
3. Click the **Add** button. Type or paste the 25-digit code in the space. Enter a note in the Comment field if desired. This may be useful for distinguishing multiple Unlock Codes in the list.
4. Click the **OK** button.
5. To add another code, repeat steps 3 and 4. To exit, click the **Close** button.

The MapSource region will now be “unlocked” and you can view the map detail on your PC screen and download map sets to your GPS or a data card in a USB programmer. The Unlock Code, a description of the region, comments, and the expiration will be displayed in the Unlock Codes List.

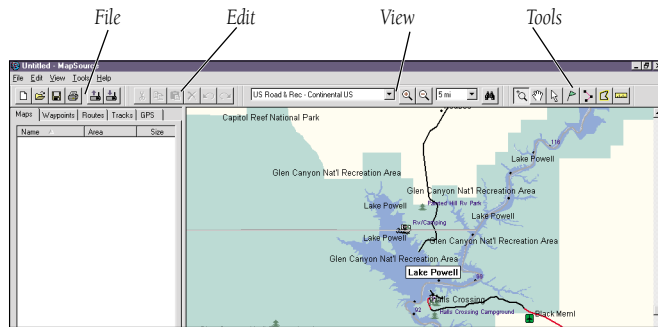
To Edit or Delete an Unlock Code:

1. Select *Unlock Codes* from the Tools Menu or press **Ctrl** and **U**.
2. Select the desired Unlock Code by highlighting it with a click of the left mouse button.
3. To edit the Unlock Code, click the **Edit** button and enter or modify the notes in the Comment field. Click **OK** when you’re finished.
4. To delete the Unlock Code, click the **Delete** button. Click **Yes** when you are asked “Are you sure you want to delete...” If you made a mistake, click **No** and the Unlock Code will not be deleted. To exit, click the **Close** button.

Finding Your Way Around MapSource

MapSource Toolbars

MapSource has four toolbars: 'File', 'Edit', 'View' and 'Tools', that allow you to quickly access many of the functions available in the menus.

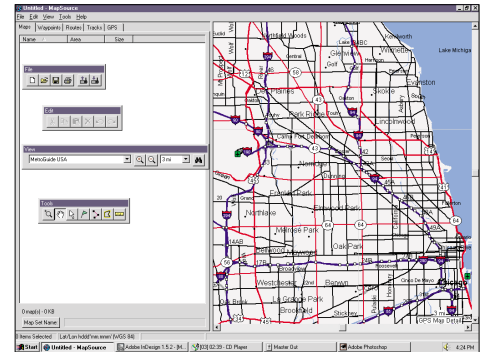


Undocking the Toolbars

The File, Edit, View and Tools 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.

Getting Started

MapSource Toolbars



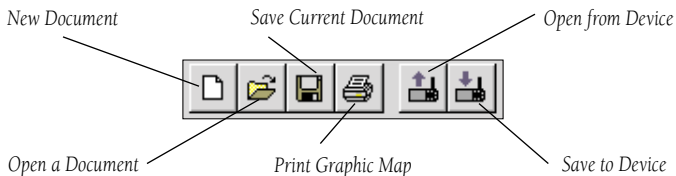
Undocking the Toolbars

Getting Started

File and Edit Toolbars

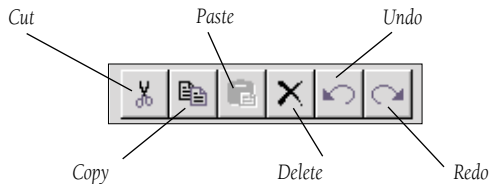
File Toolbar

The File Toolbar contains items found in the File Menu. You can create a New Document, Open a Document, Save the Current Document and Print the Graphic Map. You may also transfer data between MapSource and a GPS or a data card inserted in a USB programmer by selecting Open From Device or Save To Device. See page 19 for more detailed information on the File Menu.



Edit Toolbar

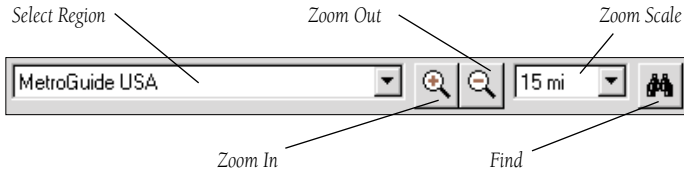
The Edit Toolbar contains items found in the Edit Menu. You can select the Cut, Copy and Paste functions, Delete selected items, and Undo the last user action. After an “undo” is performed, the Redo button is activated, allowing you to revert to the last user action, or “redo” the “undo.” See page 20 for more detailed information on the Edit Menu.



View and Tools Toolbars

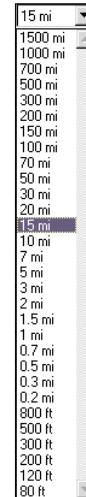
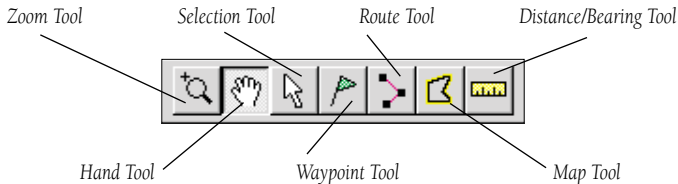
View Toolbar

The View Toolbar contains items found in the View Menu. You can Select a Region to view, Zoom In/Out, Select a specific Zoom Scale or activate the Find feature. The Find feature lets you search for a city and view it on the Graphic Map. Some MapSource products include the Advanced Find feature, allowing you to search for a city, point of interest or an address and view it on the Graphic Map. See page 26 for more detailed information on the View Menu.



Tools Toolbar

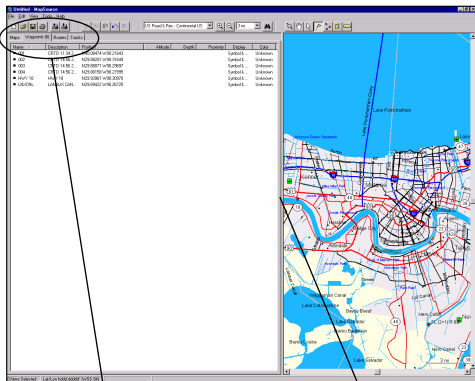
The Tools Toolbar contains items found in the Tools Menu. You can directly select the Zoom, Hand, Selection, Waypoint, Route, Map, and Distance/Bearing Tools. See page 31 for more detailed information on the Tools Menu.



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.

Getting Started

Data Tabs



Tabs

Splitter Bar

Tab Lists

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

Data Tabs

The Data Tabs (Maps, Waypoints, Routes, Tracks and GPS) are located on the left side of the display. The GPS Tab provides real time tracking when you run MapSource on a laptop with a GARMIN GPS connected to the laptop (for more information on real time tracking and the GPS Tab, see page 53).

When the Maps, Waypoints, Routes or Tracks tab is selected, the data for that item is displayed in list form. When data is created or transferred from the GPS, the Tab List for the data item is automatically updated. Each of these tabs displays a list of its contents.

The Tab Lists allow you to easily select items for viewing or editing. Data displayed in the Tab Lists can be sorted by column. 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.

To sort the data by a specific column, click on the column header. An arrow will appear, showing the direction of the sort, ascending or descending. You may also change the order the columns are arranged from left to right by clicking on a column header, then “dragging and dropping” the column into the desired location.

The Tab Lists show what items will be transferred to a GPS or a data card in a USB programmer. MapSource will transfer all of the data in a chosen Tab, not just the item highlighted in the list.

Graphic Map

The Graphic Map shows the region of the world that is currently selected in the Region Selection Box. You can zoom in and out and move to different parts of the selected region. 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” will be displayed below the zoom scale in the lower right-hand corner of the Graphic Map.

To pan the Graphic Map, use the scroll bars or the arrow keys. In addition, the Page Up and Page Down keys move the map window up or down by the length of the window. Holding the **Ctrl** key and pressing an arrow key moves by the width of the window in that direction (up, down, left, or right).

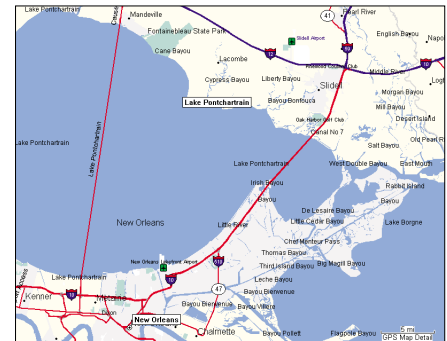
Status Bar

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:

- Latitude and Longitude of the mouse pointer when the mouse is positioned on the Graphic Map regardless of which tool is selected.
- The number of tab items that are selected in the Tab List.
- The current Position Format and Map Datum set in Preferences.
- If the Map Tool is selected, the name and approximate data size of the geographical map boundary currently highlighted on the Graphic Map will be displayed in the right panel of the Status Bar.
- If the Distance/Bearing Tool is selected, the distance and bearing from a beginning point will be displayed in the right panel of the Status Bar.

Getting Started

Graphic Map/ Status Bar



Graphic Map



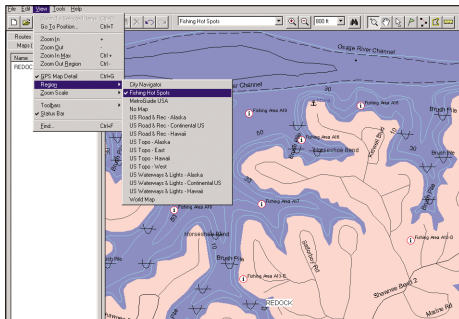
Status Bar

MapSource Tour

MapSource Tour



MapSource Icon



Selecting a Map Region

Select a Map Region to view on the Graphic Map from the data that you have loaded. If you only have one MapSource product loaded, it will be the only selection in the list.

A Tour through MapSource

This tour is intended to take you through the basic operations of MapSource. You can find more detailed descriptions of the tools and operations in the Reference section of this manual. A copy of this Quick Tour can be found in the MapSource Help Menu.

This tour presumes that you have installed MapSource, unlocked the map data (if required), have not changed the default settings of the application and that your GPS is connected to a serial port on your computer. Open the MapSource application by double clicking the MapSource icon located on your desktop. To view a map region from the MapSource data you have loaded, choose 'Region' in the View Menu and pick a region. To view more map detail, set the 'Zoom Scale' (also located in the View Menu) between 2 miles and 500 feet. Some Points of Interest may only appear at the 500 ft scale or smaller.

MapSource comes with a sample document file that we will use for this tour, so lets open it and get started! From the File Menu select 'Open'. In the MapSource folder, locate the file 'MapSource Tour' and double click it (The MapSource folder is the installation folder you chose during installation. You will need to change the folder you are working from to this folder.). Notice that the Routes Tab and Waypoints Tab now contain some data. At the top of each tab you will see the tab name and in parentheses the number of items contained in the tab list. The Waypoints Tab should contain 13 waypoints. Display the Waypoints Tab List by clicking on the Waypoints Tab.

Waypoints

Let's start by looking at waypoint 001. Select waypoint 001 by clicking on it one time with the left mouse button. From the View Menu, choose *Zoom To Selected Waypoint*, to center the waypoint on the Graphic Map at the current zoom scale.

Viewing Waypoint Data

There are two places to view waypoint data:

Waypoints Tab List—The 'Waypoints' Tab List displays waypoint data but doesn't allow you to edit the information. It may be necessary to slide the Splitter Bar in the middle of the display to the right to see all of the data.

Waypoint Properties—To display the Waypoint Properties, double click on the waypoint in the 'Waypoints' Tab List. The 'Waypoint Properties' dialog allows you to review and edit waypoint data.

Editing Waypoint Properties

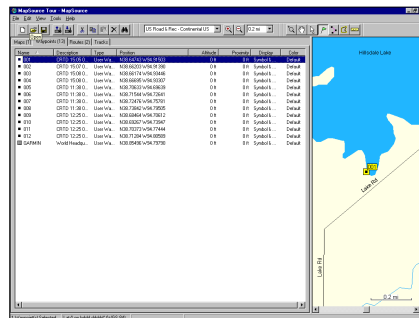
With the properties for waypoint 001 displayed, highlight the waypoint name field and type "Boat Ramp" as a new name. Scroll through the symbol list and select the Boat Ramp symbol. To save the changes and view the waypoint on the Graphic Map, click the **Show on Map** button.

Things You Should Know About Waypoint Properties:

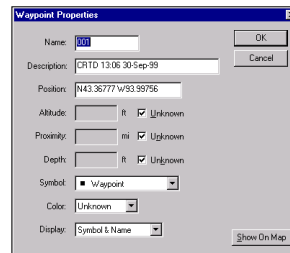
- GARMIN GPS products limit the number of characters in a waypoint name. If you transfer a waypoint with a name that exceeds the character limit, the GPS will truncate the name. If more than one waypoint name is the same after truncation, only one of the waypoints will be loaded in the GPS. (continued)

MapSource Tour

Waypoints



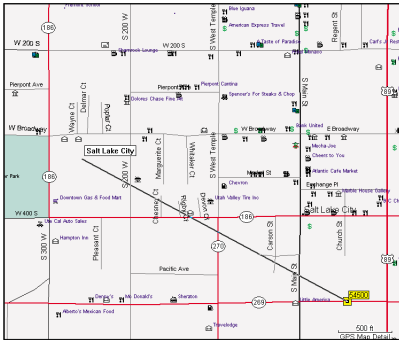
Waypoints Tab List



Waypoint Properties Dialog Box

MapSource Tour

Waypoints



Moving a Waypoint

- GARMIN GPS products limit the number of characters in the waypoint description. If the MapSource description exceeds this limit, the waypoint description will be truncated.
 - If you select a symbol that does not exist in your GPS, the waypoint will be represented by a square when transferred into your GPS.
- See your GPS Owner's Manual for your product's limitations.

Creating Waypoints

Creating a new waypoint is as easy as locating a spot on the Graphic Map with your mouse and clicking.

Creating a Waypoint Using the Waypoint Tool:



1. Select *Waypoint* located in the Tools Menu.
2. Place the mouse pointer over a position on the Graphic Map and click the left mouse button.

The 'Waypoint Properties' dialog appears for the new waypoint. MapSource automatically assigns a name and symbol for new waypoint. Make any desired changes in the 'Waypoint Properties' and click **OK**. Notice that MapSource added the new waypoint to the Waypoints Tab List.

Moving a Waypoint Using the Selection Tool:



1. Choose *Selection* located in the Tools Menu.
2. On the Graphic Map, click on the waypoint to select it, then click it again. Do not double click on the waypoint, as this will display the 'Waypoint Properties.'
3. Position the mouse pointer at the new location, then click again to anchor the waypoint.

Routes

A route is a collection of waypoints used for navigation. When creating a route on the Graphic Map, you can use existing waypoints or create new waypoints while creating the route.

Creating a Route Using the Route Tool:

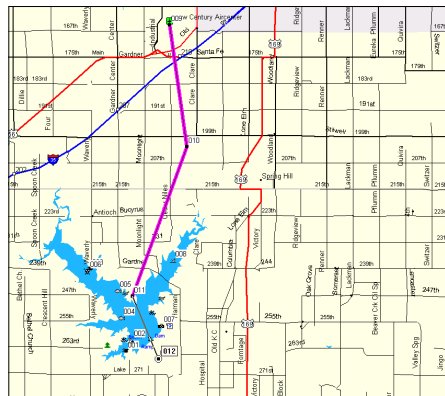


1. Select *Route* located in the Tools Menu.
2. Highlight waypoint *009* in the Waypoints Tab List, then choose *Zoom To Selected Waypoint* located in the View Menu.
3. Adjust the Zoom Scale so you can see waypoints *009* through *012*.
4. Place the mouse pointer on waypoint *009*. When the waypoint is selected (there will be a white circle surrounding the waypoint), click on the waypoint. Move the mouse pointer; there will be a line extending from *009* to the mouse pointer location. Click on waypoints *010*, *011* and *012* in that order.
5. Move the mouse pointer to any location on the Graphic Map and click again. A new route waypoint is created and added to the route at the location you selected.
6. When you have finished adding waypoints to the route, press the **Escape** key on your keyboard to end the route.

Select the Routes Tab. You can see that a new route has been added. MapSource automatically names the new route using names of the first and last waypoints in the route.

MapSource Tour

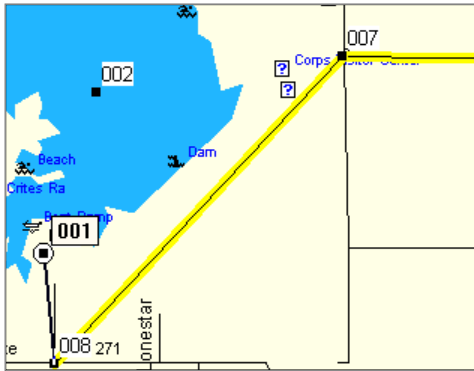
Routes



Using the Route Tool

Create a new route by clicking on waypoints in the order that you wish to navigate them. You can create new waypoints while creating the route by clicking on a map location.

Routes/ Map Sets



Extending a Route

Extending a Route:

1. Choose *Selection* located in the Tools Menu. Select the route that you just created by clicking on it with the left mouse button (the route will turn yellow when selected).
2. With the *Selection Tool*, click the first or last waypoint in the route.
3. Click on an existing waypoint or a position on the Graphic Map to add to the route.
4. When finished extending the route, press the **Escape** key on your keyboard.

Deleting a Route:

1. Choose *Selection* located in the Tools Menu, then select the route that you just finished creating on the Graphic Map.
2. Press the **Delete** key on the keyboard.

The route will be removed from the Tab List and the Graphic Map. Notice that the route waypoints remain; only the route has been erased.

Map Sets

A Map Set is one or more detailed maps selected from the Graphic Map to be transferred to your GPS unit. Not all GARMIN GPS units can use detailed maps. Please consult your Owner's Manual to determine if your unit has this capability and its limitations. To begin, select the Maps Tab.

Creating a Map Set:



1. Select *Map* located in the Tools Menu.
2. Place the *Map Tool* inside a boundary area. The area will become outlined in yellow.
3. Click inside the map boundary to add it to the Map Set. The selected area will now be shaded in pink.

The MapSource data that you have loaded determines the geographical map boundaries. Each product has different boundary areas. When the Map Tool is placed inside a map boundary area, that area will become outlined in yellow. If you are having difficulty locating a map boundary area, change your zoom scale and try again. Most map boundaries can be seen at the 30 mile (50 km) zoom scale.

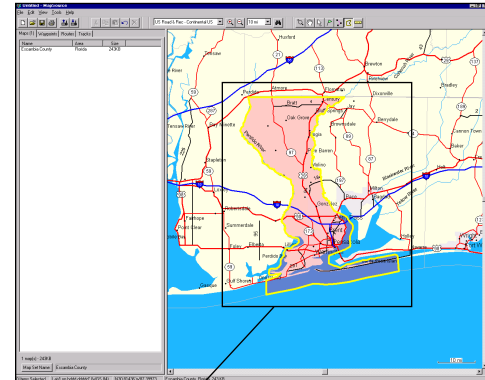
When you add a map to the Map Set, the Name, Area and the Size of the map are shown in the Maps Tab List. At the bottom of the Maps Tab List, you will see the number of maps that have been selected and the required memory for the Map Set. If the Map Set contains a large number of maps or a large memory capacity, you may get a warning from MapSource. To remove the warning, reduce the number of maps.

Deleting Maps:

1. Click the map name in the *Maps Tab List* then press the **Delete** key. Or, with the *Map Tool* Selected, click the mouse inside the boundary of the map area you want to delete.

To remove several maps at the same time, hold the **Ctrl** key and drag a box around the selected map boundaries. You can also select several maps in the Maps Tab List and press the **Delete** key. When a map is deleted, it will no longer be shaded pink on the Graphic Map and will be removed from the Maps Tab List.

Map Sets



Creating a Map Set

Choose the Map Tool. Place the mouse pointer in the geographical area that you want to select. The area will become outlined in yellow. To select the area and add it to the Map Set, click the left mouse button. When the area is selected it will be shaded in pink and listed in the Maps Tab List.

MapSource Tour

Tracks/ Transferring Data



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



NOTE: Preprogrammed BlueChart data cards should not be used in the USB Programmer or in a GPS unit for saving MapSource maps. The BlueChart data will be lost. If you have a BlueChart data card in your GPS unit, remove it before transferring map sets to the unit to avoid losing the preprogrammed data. If you choose to overwrite the preprogrammed data on a BlueChart data card, GARMIN will not replace or recover the lost data.

Tracks

A track cannot be created in MapSource unless you have a GPS connected to your computer and use the Real Time Tracking feature in the GPS Tab. If a track log has been transferred to MapSource from a unit or created with Real Time Tracking, then the Tracks Tab List will display those tracks. For more detailed information on tracks, Real Time Tracking and the GPS Tab, see pages 52-55.

Viewing a Track:

1. Select the track in the *Tracks* Tab List.
2. Select *Zoom To Selected Track* located in the View Menu. The Graphic Map will center on the track.

Transferring Data

You can save MapSource data to two different devices, a GARMIN GPS unit or a data card in a GARMIN USB (Universal Serial Bus) Data Card Programmer. MapSource will allow direct data transfer either to the unit or to a GARMIN data card inserted in a programmer. The GPS unit will accept all data types: Maps, Waypoints, Routes and Tracks. The programmer allows transfer of map data only. Waypoints, Routes and Tracks must be transferred directly to or from the GPS unit.

When transferring map data to a GPS or data card, all previously stored map data in the GPS or on the card will be erased and replaced with the new information. You may want to save previously stored information into MapSource before transferring the new MapSource information to your GPS or data card.

Saving MapSource Data to a GPS:



1. Select *Save To Device* from the File Menu and select the Serial Port Tab.
2. In the 'What To Save' dialog, 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 the **Select All** button.
3. In the 'Communication Options' dialog, you may choose to 'Turn Off GPS After Transfer' by placing a check mark in the box. You may also 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 the **Auto Detect** button.
4. Click the **Save** button to begin data transfer. As the transfer takes place, a progress indicator will be displayed and the GPS will display a message indicating that the data is being transferred.

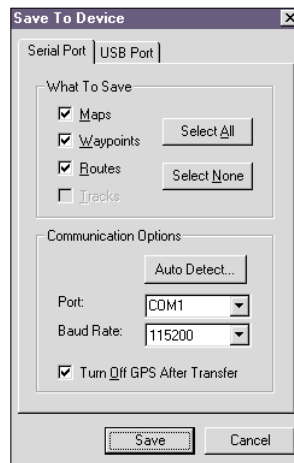
Saving Map Sets to a Data Card in a USB Programmer:

1. Select *Save to Device* from the File Menu and select the USB Port Tab.
2. The USB Port dialog will appear with "Card Programmer" highlighted.
3. Click the **Save** button to begin transferring map sets.

Because you can only save map sets to a data card, there will not be a "What To Save" dialog on the USB Port Tab. A Progress Indicator will appear on the computer screen and when finished, MapSource will display a message indicating "Transfer complete." Do not remove the data card during the transfer.

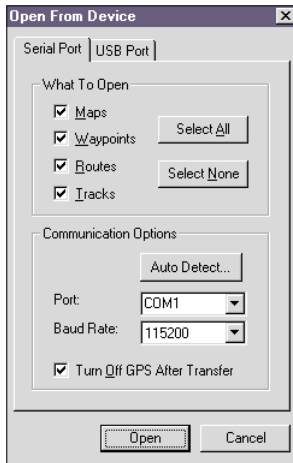
MapSource Tour

Transferring Data



Save To Device—Serial Port Tab

Transferring Data



Open From Device—Serial Port Tab

Transferring Data to MapSource From a GPS:



1. Select *Open From Device* from the File Menu and select the Serial Port Tab.
2. In the 'What To Open' dialog, 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 the **Select All** button.
3. In the 'Communication Options' dialog, you may choose to 'Turn Off GPS After Transfer' by placing a check mark in the box. You may also 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 the **Auto Detect** button.
4. Click on the **Open** button to begin transfer.



You cannot open maps from a GPS unit that cannot accept downloadable maps. Please see your GPS owner's manual to learn more about your GPS unit's capabilities.

Transferring Map Sets to MapSource From a Data Card in a USB Programmer:

1. Select *Open From Device* from the File Menu and select the USB Port Tab.
2. With "Card Programmer" highlighted, click the **Open** button to transfer data.

A progress indicator will appear on the computer screen and when finished, MapSource will display a message indicating "Transfer Complete." Do not remove the data card during the transfer.

File Menu

New—Opens a new, empty MapSource document.

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 at the top of the page.

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

Open From Device—Allows you to transfer selected data (Maps, Waypoints, Routes and Tracks) from a GPS or maps only from a Data Card inserted in a Programmer connected to the computer. See “Transferring Data” on page 16 for more information.

Save To Device—Allows you to transfer selected MapSource data to a GPS or maps only to a Data Card inserted in a Programmer. See “Transferring Data” on page 16 for more information.



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 about the limitations of your specific model.

Reference

File Menu

File	Edit	View	Tools	Help
New				Ctrl+N
Open...				Ctrl+O
Save				Ctrl+S
Save As...				
Print...				Ctrl+P
Print Preview...				
Print Setup...				
Open From Device...				Ctrl+Shift+O
Save To Device...				Ctrl+Shift+S
Send Mail...				
Import...				
Export...				
Recent File				
Exit				

File Menu

Reference

File Menu/ Edit Menu

Edit	View	Tools	Help
Undo			Ctrl+Z
Redo			Ctrl+Y
Cut			Ctrl+X
Copy			Ctrl+C
Paste			Ctrl+V
New Waypoint...			Ctrl+W
New Route...			Ctrl+R
Duplicate Route			
Delete Route			Del
Remove Waypoint from Route			Ctrl+Del
Route Properties...			
Select All			Ctrl+A
Preferences...			Ctrl+Shift+P

Edit Menu

Send Mail—This function allows you to send an e-mail with the current MapSource document as an attachment.

Import—This feature allows the user to open data stored using GARMIN's PCX5 Version 2.09 software. MapSource can display waypoints (.wpt), routes (.rte), tracks (.trk) or one of the maps (.grm) provided with PCX5. When using a PCX5 map (.grm), turn off any MapSource map data by choosing 'No Map' in the 'Region' menu selection to avoid screen clutter.

Export—This feature 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—This area shows the four most recently used MapSource documents. To quickly reopen one of these files, click on the document name.

Exit—Closes the MapSource application.

Edit Menu

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

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

Edit Menu

Cut, Copy, Paste—These functions work like many other Windows programs. You may cut or copy any MapSource list information 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.

New Waypoint—Automatically creates a new waypoint in the center of the Graphic Map, assigns a waypoint name, and displays the ‘Waypoint Properties’ dialog box. You can change the waypoint name, add a description, change the position, assign an altitude, enter a proximity distance, enter a depth, choose a symbol, select display options for the waypoint. When you are finished, click the **OK** button to add it to the Waypoints Tab List and Graphic Map. To center the waypoint on the Graphic Map, click **Show on Map**. This adds the waypoint to the waypoint list, and centers the Graphic Map on the waypoint at the zoom scale you have selected. For more detailed information, see “Creating Waypoints” on page 40.

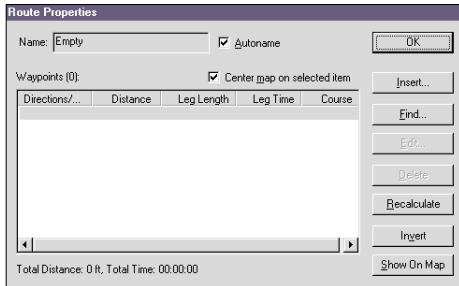
The screenshot shows the 'Waypoint Properties' dialog box with the following fields and values:

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

**‘Waypoint Properties’ Dialog Box
for a New Waypoint**

Reference

Edit Menu



**'Route Properties' Dialog Box
for a New Route**

New Route—Displays the 'Route Properties' dialog box. To create a new route, click the **Insert** button and select a waypoint from the list (you must have already created and saved waypoints to choose from). With some MapSource products, you may also search for a city or point of interest to add to the route by clicking the **Find** button. Continue inserting waypoints in the order that navigation will take place. When the last waypoint has been inserted, click **OK** to save and add the new route to the Routes Tab List. If you wish to save and view the new route on the Graphic Map, click **Show on Map**. When you create a route, MapSource will automatically assign 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 and you can type in a new route name. For more detailed information, see "Creating Routes" on page 45.

Duplicate Route—Duplicates the selected route in the route list.

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

Remove Waypoint(s) from Route—Removes a selected waypoint from the selected route. For more information, see "Editing Routes" on page 48.

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

Select All—Selects all active Tab data in the Tab List and on the Graphic Map.

Preferences—Activates the setup functions for MapSource. Preferences are organized into an easy-to-use tabbed format, with 8 setup tabs to choose from: Detail, Units, Position, Map Datum, Transfer, File Location, Waypoint and AutoRouting. When you change any of the 'Preferences' settings, click the **Apply** button to make the change, then click **OK** to save and exit.

Detail Tab: This tab includes a slider control that allows you to adjust the amount of detail displayed on the Graphic Map (this setting does not affect the amount of detail transferred to the GPS) and options for displaying 'Services', 'Spot Soundings' and 'Light Sectors' on the Graphic Map.

Units Tab:

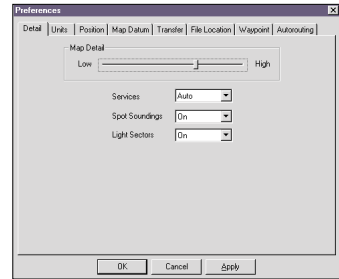
Distance/Speed: Select from Metric, Nautical or Statute. All distance or speed measurements will reflect this setting.

Heading: The Heading option allows you to choose True, Automatic Magnetic Variation, User Magnetic Variation or Grid. 'True' will show true North headings. 'Automatic' will automatically calculate the magnetic variation for the geographical area. 'Grid' provides a true North heading as determined by the Position Format. When 'User' is selected, the field to the right is activated for manual entry of a magnetic variation.

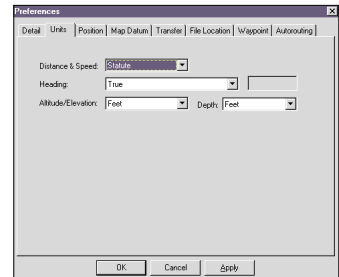
Altitude/Elevation: Select Feet or Meters for measuring these data items.

Depth: Select Feet, Meters or Fathoms for depth measurement.

Edit Menu: Preferences



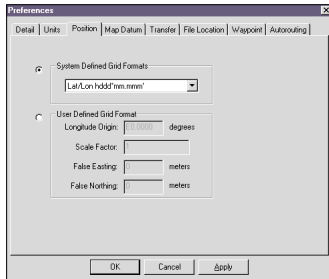
Preferences—'Detail' Tab



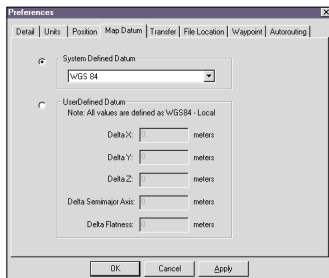
Preferences—'Units' Tab

Reference

Edit Menu: Preferences



Preferences—'Position' Tab



Preferences—'Map Datum' Tab

Position Tab: This tab allows the user to select from the different position or grid formats available or manually enter information for a user defined grid.

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

User Defined Grid Format: Manually enter values for Longitude Origin, Scale Factor, False Easting and False Northing to create a custom grid format.

Map Datum Tab: This tab allows the user to select from over 100 different 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.

System Defined Datum: Select a map datum from the drop-down list.

User Defined Datum: Manually enter values for Delta X, Delta Y, Delta Z, Delta Semimajor Axis and Delta Flatness to create a custom map datum.

Transfer Tab: This allows you to check and modify the communications settings for transferring data between your computer and your GPS unit. You may select **Auto Detect** to have the computer automatically detect the correct COM Port and Baud Rate for transfer. Or you may manually choose a Port and Baud Rate that works best with your computer.

Port: Use the drop-down list to select the COM port used for communication with your GARMIN GPS via the PC Interface cable. COM 1 through COM 8 are provided as selections. Some computers use different names for the serial communication ports, so you may be required to manually enter the name of the serial port.

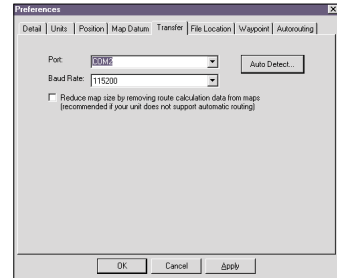
Baud Rate: Use the drop-down list to select the baud rate used to transfer data to and from your GPS. “Automatic” is the recommended selection. In this case, the computer and the GPS negotiate the highest possible baud rate. If you consistently observe operation at 9600 baud, you may wish to manually select a baud rate that works best for your computer.

Auto Detect: MapSource has the ability to search for and automatically select the Port where the GARMIN GPS is connected. To have MapSource automatically select the communication port, make sure the GPS is connected and turned on. Click the **Auto Detect** button. MapSource will display the progress of the search and will inform you when a connection has been made. Click **OK** to accept the Port selection.

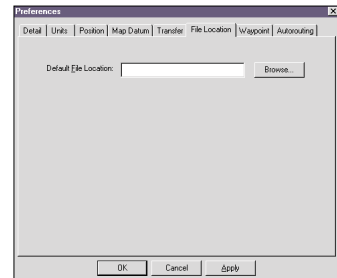
Reduce Map Size: This options removes the route calculation data from maps before transferring them to your GPS. This is recommended for use with units that don't accept automatic routes. Place a check mark in the box to select this option.

File Location Tab: This allows you to set up a default location on your computer for saving and opening your MapSource files, importing PCX5 data, and exporting .txt and .dxf data. You may manually enter the location or click the **Browse** button to select the folder for your default file location.

Edit Menu: Preferences



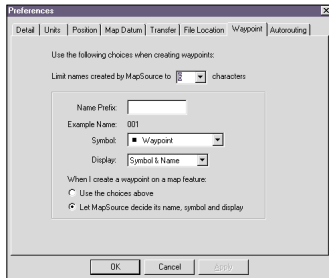
Preferences—'Transfer' Tab



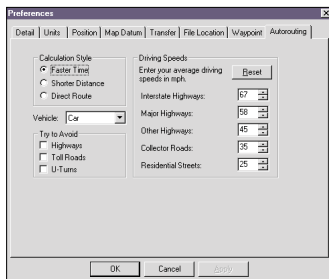
Preferences—'File Location' Tab

Reference

Edit Menu/View Menu



Preferences—'Waypoint' Tab



Preferences—'Autorouting' Tab

Waypoint Tab: This 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: Select between 'Let MapSource decide its name, symbol and display' and 'Use the choices above.' When you select 'Use the choices above,' you may manually enter a name prefix and/or use the drop-down menus to select a symbol and how the waypoint will be displayed on the Graphic Map.

Autorouting Tab: This tab allows you to set up preferences for automatic routing calculations when using a routable MapSource product. You may select, deselect or set up the following for MapSource to automatically calculate a route: Calculation Style (Faster Time/Shorter Distance/Direct Route), 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" on page 45.

View Menu

Zoom To Selected Items—When Waypoints, Routes, Maps or Tracks are selected in the Tab List, selecting this feature will display the selected item in the center of the Graphic Map. The menu heading will change to reflect the item(s) that have been selected in the Tab List. For example, if a waypoint is selected in the Waypoints Tab List, the menu will read *Zoom To Selected Waypoint*.

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 and more detail.

Zoom Out—Increases the zoom scale, showing a larger area and 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—When this menu item is checked, MapSource will show you the actual map info that will be loaded into the GPS. Unchecking this option will enable faster map drawing, and may reduce the need for a CD-ROM to be in your computer's CD-ROM drive.

Show Crosshair—When this menu item is selected, MapSource will re-draw 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.

Region—Allows you to select a MapSource product and coverage region for display on the Graphic Map. You can select a coverage region from any MapSource product that has been installed on your computer. If you select a region that has been installed, but the corresponding CD-ROM is not in your computer's CD-ROM drive, you may see a message prompting you to insert the proper CD.

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

View Menu

View	Tools	Help
Zoom To Selected Items		Ctrl+D
Go To Position...		Ctrl+T
Zoom In		+
Zoom Out		-
Zoom In Max		Ctrl +
Zoom Out Region		Ctrl -
<input checked="" type="checkbox"/> GPS Map Detail		Ctrl+G
Show Crosshair		Ctrl+H
Region		▶
Zoom Scale		▶
Toolbars		▶
<input checked="" type="checkbox"/> Status Bar		
Find...		Ctrl+F

View Menu

Reference

View Menu



'Find City' Dialog

Toolbars—This 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 may also select to 'Hide All' or 'Show All' toolbars.

Status Bar—This 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 will be displayed.

Find—This feature enables you to search for a city, point of interest, or address and view it on the Graphic Map. With some MapSource products, an Advanced 'Find' dialog appears with additional menus to help narrow your search. With MapSource products that are installed by region, you will only be able to find objects in maps that have been installed.

To Find a City by Name and View it on the Graphic Map:

1. Select *Find* from the View Menu. The 'Find City' dialog will appear.
2. Enter the name of the desired city and highlight the city in the list.
3. To display the highlighted city on the Graphic Map, click the **Center On City** button, press **Enter** on your keyboard, or double-click the highlighted city name. It may be necessary to Zoom IN to view the city name on the Graphic Map.



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.

To Find a City with the Advanced 'Find' Feature and View it on the Graphic Map:

1. Select *Find* from the View Menu. The advanced 'Find' dialog will appear.
2. Enter a city name in the 'City' field (you may 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 the **Select City** button.
3. With the desired city name entered in the 'City' field, click the **Search** button to show a list of city/state matches to choose from. The first match will be displayed in the center of the Graphic Map and highlighted in the search results list.
4. Highlight the desired city and click the **OK** button to keep the selected city centered on the Graphic Map. To return to your previous map display, click the **Cancel** button.



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

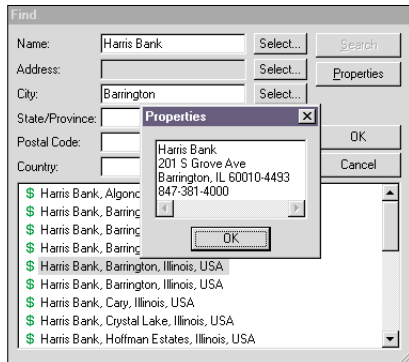
View Menu: Find Feature

The screenshot shows the 'Find' dialog box with the following fields and buttons:

- Name: [] Select...
- Address: [] Select...
- City: [Barrington] Select...
- State/Province: []
- Postal Code: []
- Country: []
- Buttons: Search, Properties, OK, Cancel
- List Box:
 - Barrington, Rhode Island, USA
 - Barrington, Illinois, USA**
 - Barrington, New Jersey, USA
 - Barrington, Georgia, USA
 - Barrington, Georgia, USA
 - Barrington, Maryland, USA
 - Barrington, New Hampshire, USA
 - Barrington, New York, USA
 - Barrington Center, Illinois, USA

Advanced 'Find' Dialog—City Search

View Menu: Find Feature



Advanced 'Find' Dialog—Point of Interest Search

Advanced 'Find' search results for a Point of Interest, with the Properties for the selected Point of Interest displayed.

To Find a Point of Interest with the Advanced 'Find' Feature:

1. Select *Find* from the View Menu. The advanced 'Find' dialog will appear.
2. 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.
3. Enter the city, state or both to enable the **Search** button.
4. Click the **Search** button. The first match will be displayed in the center of the Graphic Map and highlighted in the search results list.
5. Highlight the desired Point of Interest.
6. To view the address and telephone number of the Point of Interest, click the **Properties** button (this may be helpful in distinguishing multiple Points of Interest with the same name). Click the **OK** button to exit the 'Properties' window.
7. To keep the selected point displayed in the center of the screen, click the **OK** button. To return to your previous map display, click the **Cancel** button.

To Find an Address with the Advanced 'Find' Feature:

1. Select *Find* from the View Menu. The advanced 'Find' dialog will appear.
2. Click the **Select** button to the right of the 'Address' field. The 'Select Address' window will appear.
3. Enter the number of the address in the 'Number' field.
4. Enter the street name in the 'Street' field. A list of street name "matches" will appear to narrow your search. Highlight the desired street name from the list.

(continued)

Reference

- Click the **Select Address** button. The full address will appear in the 'Address' field in the Advanced 'Find' dialog.
- Enter the city, state, or both to enable the **Search** Button.
- Click the **Search** button. The desired address will be centered on the Graphic Map and highlighted in the search results list. With the desired address highlighted, click the **Show on Map** button to keep the selected feature displayed on the screen. To return to your previous map display, click the **Cancel** button.

Tools Menu

Zoom Tool—This tool enables you to quickly zoom to a specific area on the Graphic Map.

To Zoom IN on the Graphic Map:

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

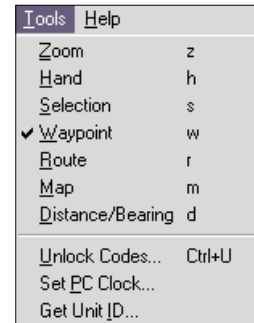
To Zoom OUT on the Graphic Map:

- With the *Zoom* Tool Selected, click the right mouse button will decrease the zoom scale by one step.

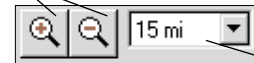


NOTE: Holding the Ctrl key while clicking the left mouse key will center the Graphic Map without changing the zoom level. Pressing the "+" and "-" keys on your keyboard also let you zoom IN and OUT.

Tools Menu



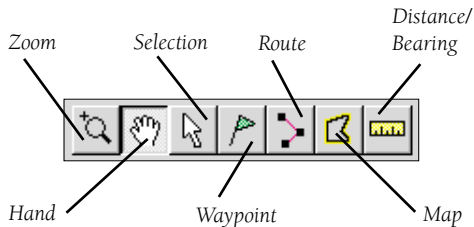
Tools Menu



You may also change the Zoom Scale by clicking the Zoom IN or Zoom OUT icons, or by using the drop-down Zoom Scale list, all located in the View Toolbar.

Reference

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

Hand Tool—The 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 may also use the Arrow Keys (Up, Down, Left, Right) on your keyboard as a shortcut to pan the Graphic Map in the desired direction.

Selection Tool—The 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 will become highlighted in white and the name of the item will be displayed in a white box.
2. To select a waypoint or route for editing, click the left mouse button on the item. The route or waypoint will now be highlighted in yellow and can be edited. For more information on editing waypoints and routes, see "Editing Waypoints" on page 42 and "Editing Routes" on page 48.

Waypoint Tool—The 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" on page 40.

Route Tool—The 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" on page 45.

Map Tool—This 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” on page 55.

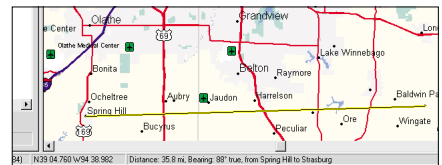
Distance/Bearing Tool—The Distance/Bearing Tool allows you to determine the distance and bearing from one point to another on the Graphic Map.

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 will be displayed in the Status Bar.
3. You may 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.

Reference

Tools Menu

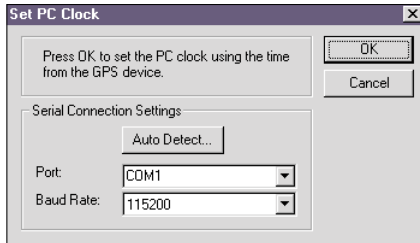


Distance/Bearing Tool

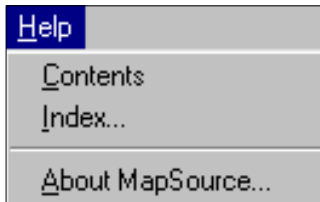
When using the Distance/Bearing tool, the distance and bearing from a beginning point to the cursor will be displayed in the Status Bar at the bottom of the MapSource application window.

Reference

Tools Menu/ Help Menu



Set PC Clock



Help Menu

Unlock Codes—Some MapSource products require you to enter a code to “unlock” a map region. This tool helps you enter, manage and edit your MapSource Unlock Codes. See [Unlock Codes](#) on page 3 for more detailed information.

Set PC Clock—This tool allows you to synchronize the clock on your PC with the GPS clock. Click the **OK** button to set the PC Clock. Make sure your GPS is connected to a serial communication port on your computer. If you see the message “The GPS is not responding,” you may need to check the Serial Connection Settings.

Get Unit ID—This tool retrieves the Unit ID of your GPS unit. Click the **OK** button to get the Unit ID. Make sure your GPS is connected to a serial communication port on your computer. If you see the message “The GPS is not responding,” you may need to check the Serial 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 the About Box. The About Box contains information about the MapSource application. Application and Data version information and Installed products can be viewed on this page.

Right-Click Menus

MapSource includes shortcuts to many functions of the main menus through the Right-Click Menu. With any tool selected (except for the Zoom Tool), click the right button on your mouse anywhere on the Graphic Map, and a menu of options will appear for that feature or location.

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 will appear 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:

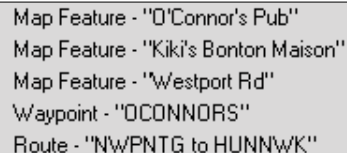
New Waypoint— Choosing this option will create a new waypoint at the selected map location and access the ‘Waypoint Properties’ dialog. For more information, see “Creating Waypoints” on page 40.

Begin Route— This will activate the Route Tool and begin a route at the selected map location. For more information, see “Creating Routes” on page 45.

Begin Measurement— This option will activate the Distance/Bearing Tool, allowing you to measure the distance and bearing from the location you selected to another location on the Graphic Map. For more information, see “Distance/Bearing Tool” on page 33.

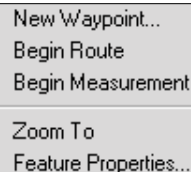
Reference

Right-Click Menus



```
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 map features, the first menu will be 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  
Zoom To  
Feature Properties...
```

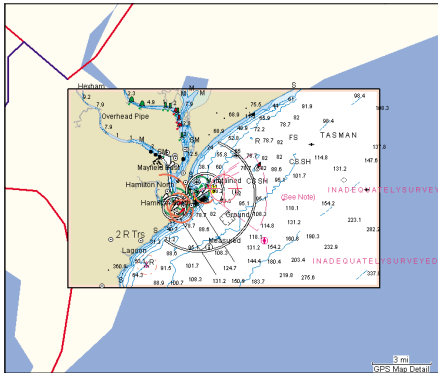
Map Feature Right-Click Menu Options

Reference

Right-Click Menus



Tide Station Symbol



'Show This Map Only' Feature



NOTE: The 'New Waypoint', 'Begin Route' and 'Begin Measurement' options are default right-click options. They will be available by clicking the right mouse button anywhere on the Graphic Map.

Zoom To— Selecting this option will “zoom” to the selected map feature and center it on the Graphic Map.

Feature Properties— Selecting this option will bring up the Properties for the selected map feature, such as the address and phone number of a Point of Interest, services and facilities at an Exit, information about a Fishing Hot Spot or Lake, or details about a Marine Chart.

Predict Tides— By clicking the right mouse button on a Tide Station (If your MapSource product supports this feature), this menu option appears. Selecting this option will display tide information for the selected location.

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 within the selected map. To cancel, right-click the map area again and select 'Show All Maps.'

Right-Click Menus

Move Waypoint
New Waypoint... Begin Route Begin Measurement
Remove Waypoint from Route
Cut Copy Paste Delete Waypoint
Zoom To Waypoint Properties...

Waypoint Right-Click Menu Options

Waypoint Right-Click Menu

By clicking the right mouse button on a waypoint on the Graphic Map or in the Waypoints Tab List, the following menu options may appear:

Move Waypoint— Choosing this option activates the Selection Tool and allows you to move the selected waypoint to another location on the Graphic Map. For detailed information on moving a waypoint, see “Editing Waypoints” on page 42.

New Waypoint, Begin Route, Begin Measurement— see page 35 for descriptions of these options.

Remove Waypoint From Route— Selecting this option will remove the selected waypoint from the route, but will not delete the waypoint. For more information, see “Editing Routes” on page 48.

Cut/Copy/Paste— Just like the functions in the Edit Menu, these options let you cut, copy and paste waypoints from one active Map-Source document to another.

Delete Waypoint— Deletes the selected waypoint.

Zoom To— Selecting this option will “zoom” to the selected waypoint and center it on the Graphic Map.

Waypoint Properties— Choosing this option will access the Waypoint Properties, allowing you to review and edit the properties for the selected waypoint. For more information, see “Editing Waypoints” on page 42.

Reference

Right-Click Menus

Insert Route Section
Invert Route
Recalculate Route
New Waypoint...
Begin Route
Begin Measurement
Cut
Copy
Paste
Delete Route
Zoom To
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 in the Routes Tab List, the following options may appear:

Invert Route— Choosing this option will reverse the waypoint order in the selected route. This will also reverse 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 (see page 26), selecting this option will recalculate the selected route according to the new preferences. You may 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— see page 35 for descriptions of these options.

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

Delete Route— Deletes the selected route.

Zoom To— Selecting this option will “zoom” to the selected route and center it on the Graphic Map.

Route Properties— Choosing this option will access the Route Properties, allowing you to review and edit the properties for the selected route. For more information, see “Editing Routes” on page 48.

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

Resume Route— By selecting a route, 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. For more information, see “Editing Routes” on page 48.

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. For more information, see “Editing Routes” on page 48.

Track Right-Click Menu

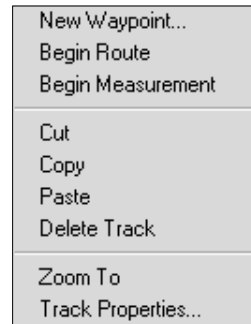
By clicking the right mouse button on a track on the Graphic Map or in the Tracks Tab List, the following options may appear:

New Waypoint, Begin Route, Begin Measurement— see page 35 for descriptions of these options.

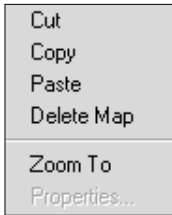
Cut/Copy/Paste— Just like the functions in the Edit Menu, these options let you cut, copy and paste tracks from one active MapSource document to another.

Delete Track— Deletes the selected track.

Zoom To— Selecting this option will “zoom” to the selected track and center it on the Graphic Map.

Right-Click Menus**Track Right-Click Menu Options**

Right-Click Menus/ Creating Waypoints



Maps Tab List Right-Click Menu Options

Track Properties— Choosing this option will access the Track Properties, allowing you to review and edit the properties for the selected track. For more information on Tracks, see page 52.

Maps Tab List Right-Click Menu

By clicking the right mouse button on a map 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.

Zoom To— Selecting this option will “zoom” to the selected map and center it on the Graphic Map.

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 will automatically assign 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 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".

When the Waypoint Tool is selected, a flag similar to the Waypoint Tool icon will be displayed 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 right mouse button and select 'New Waypoint', or just click the left mouse button. The 'Waypoint Properties' dialog box will be displayed.
3. Make any desired changes to the Waypoint Properties, then click the **OK** or **Show on Map** button to save the new waypoint. To reject the waypoint click the **Cancel** button.

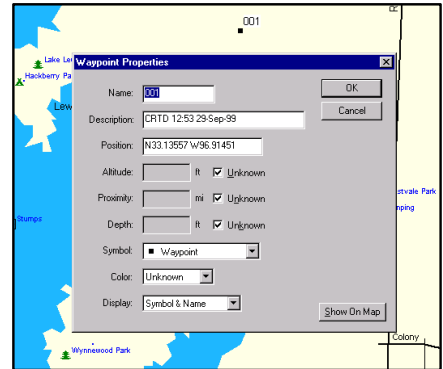
Creating a Waypoint with the Waypoint Properties

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 will display the Waypoint Properties dialog box. MapSource will assign a name and location based on the center of the Graphic Map.
2. Make any desired changes to the Waypoint Properties, then click the **OK** or **Show on Map** button to save the new waypoint. To reject the waypoint, click the **Cancel** button.

Creating Waypoints

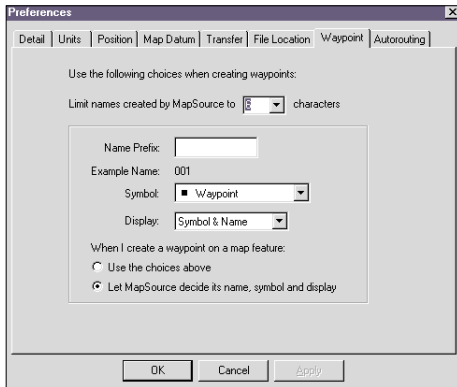


Creating a Waypoint

When you create a Waypoint on the Graphic Map, the 'Waypoint Properties' dialog box is displayed. To accept the new waypoint as is, press 'OK' or 'Show On Map.' To reject the waypoint click on 'Cancel.'

Reference

Editing Waypoints



Remember that you can set up preferences for waypoints on the 'Waypoint' Tab under 'Preferences' in the Edit Menu.

Things to Remember About Waypoints:

- When changing the name or description, remember that GARMIN GPS products can only display a limited number of characters. The name or description will be 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 select the 'Waypoint Properties':

- 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

There are nine waypoint properties that can be modified: Name, Description, Position, Altitude, Proximity, Depth, Symbol, Color, and Display. You may also choose to center the waypoint on the Graphic Map by clicking the **Show on Map** button.

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 will be truncated.

Description— A description can be entered 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 will be truncated. Refer to the GPS unit's owner's manual to determine your unit's limitations.

Position— The coordinates of the waypoint are displayed in the 'Position' field. The coordinates will be 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. If the altitude is unknown, place a mark in the *Unknown* checkbox.

Proximity— Enter a range for a proximity warning. This property is not used by all GARMIN GPS systems. If you don't want to include Proximity data or your unit is not compatible with proximity data, place a mark in the *Unknown* checkbox.

Depth— Enter a depth for underwater waypoints. This is only compatible with GPS/Sounder combination units. If the depth is unknown or you unit is not compatible, place a mark in the *Unknown* checkbox.

Reference

Editing Waypoints

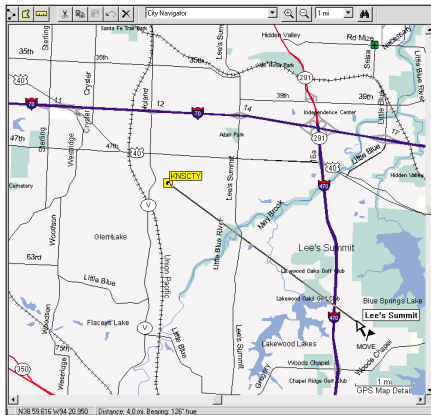
The screenshot shows a 'Waypoint Properties' dialog box with the following fields and values:

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

'Waypoint Properties' Dialog Box

Reference

Editing Waypoints



Moving a Waypoint

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. There are three settings to choose from: Symbol only, Symbol and Name, or Symbol and Description.

Show On Map— Clicking on this button will center the waypoint on the Graphic Map and exit the Waypoint Properties dialog box.

When you are finished editing a waypoint, click the **Show on Map** or **OK** button to exit the Waypoint Properties dialog box.

Moving a Waypoint on the Graphic Map:

1. Choose the *Selection* Tool located on the Toolbar or in the Tools Menu.
2. Right-click the mouse on the desired waypoint and select 'Move Waypoint,' or click the left mouse button on the waypoint to select it (the waypoint will be highlighted in yellow), then click on it again. Do not double click the waypoint, as that will display the 'Waypoint Properties' dialog box.
3. The mouse pointer will now have the word "MOVE" and a small icon of the Waypoint Tool below it. Move the mouse pointer to the new location and click the left mouse button to anchor the waypoint. You may also right-click the mouse pointer on the new location and select 'Place Waypoint Here' to anchor the waypoint, or select Cancel to return the waypoint to its original location.

Deleting Waypoints

You can delete a waypoint on the Graphic Map or in the Waypoints Tab List.

To Delete a Waypoint on the Map or Waypoints Tab:

1. With the *Selection* Tool, highlight the waypoint in the Waypoints Tab List or on the Graphic Map. Press the **Delete** key on your keyboard or select 'Delete Waypoint' from the Edit Menu. OR, click the right mouse button on the desired waypoint and select 'Delete Waypoint.'
2. To delete multiple waypoints at the same time, draw a box around the waypoints or hold down the **Shift** key while selecting the waypoints individually. After the waypoints are selected, press the **Delete** key, select 'Delete Waypoints' from the Edit Menu, or right-click the mouse and select 'Delete Waypoints.'

Creating Routes

There are two ways to create a route in MapSource—on the Graphic Map with the Route Tool, or by using the Route Properties dialog box. Depending on the MapSource product you are using, you may create a Direct Route (a straight line route), or an Automatic Route (a turn-by-turn route).

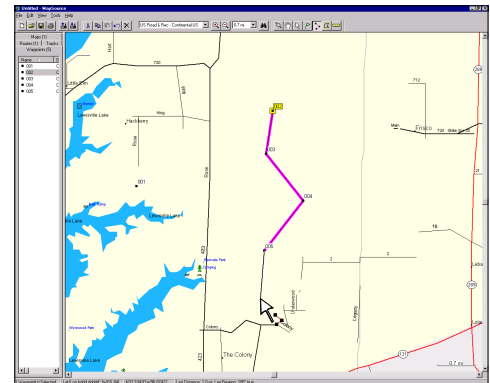


Using the Route Tool

The Route Tool can be selected several ways: by choosing 'Route' in the Tools Menu, by clicking on the Route Tool icon in the Tools Toolbar, and by using the keyboard shortcut "**R**". You may also start a route by clicking the right mouse button on the desired starting point on the Graphic Map, and then selecting 'Begin Route.'

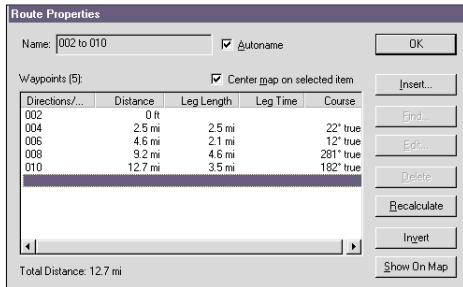
Reference

Deleting Waypoints/ Creating Routes



Creating a Direct Route with the Route Tool

Creating Routes



Creating a Direct Route with the 'Route Properties' Dialog Box

Creating 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 there is not a waypoint where you click, a new waypoint will be created at that location. As you continue, route legs will be 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 **Escape** on your keyboard or right-click to end the route. A route will be created and automatically named using the names of the first and last waypoints.



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.*

Creating an Auto-Route with the Route Tool:

1. Follow the directions for "Creating a Direct Route with the Route Tool."
2. With a routable MapSource product, MapSource will automatically calculate a turn-by-turn route. The Auto-Route will be displayed on the Graphic Map, along the roads it follows and with the turns it takes, instead of showing a direct line from one point to the next. Detailed information about an Auto-Route's turns and directions can be viewed in the 'Route Properties' for that route.

Using the Route Properties

You may create a route with the Route Properties by inserting waypoints, and with some MapSource products, you may also insert points of interest and cities through the Find feature. You may choose to start a new route with the Route Properties by selecting 'New Route' in the Edit Menu or by using the keyboard shortcut "**Ctrl + R**".

Creating a Direct Route with the Route Properties:

1. With the 'Route Properties' dialog box displayed, click the **Insert** button to display the 'Select Waypoint' dialog box. A list of waypoints will appear.
2. Highlight the waypoint that you want to insert, then click **OK**. Repeat the process, choosing the waypoints in the order that you wish to navigate them. The waypoints will be listed in the 'Route Properties' dialog box as they are added to the route.
3. When you are finished, click the **OK** or **Show on Map** button to save the new route.

Creating an Auto-Route with the Route Properties:

1. Follow the same directions for "Creating a Direct Route with the Route Properties."
2. With a routable MapSource product, MapSource will automatically calculate a turn-by-turn route. As you add points, the directions and turns will be listed between each waypoint in the 'Route Properties' dialog box. The Auto-Route will also show the roads it follows and turns it takes on the Graphic Map, instead of showing a direct line from one point to the next.

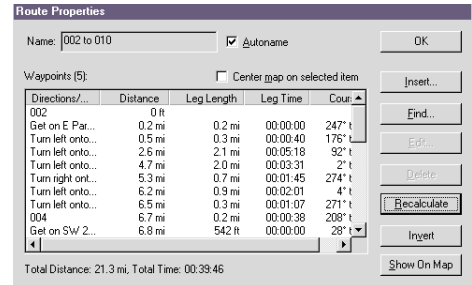
When creating an Auto-Route with the 'Route Properties,' you may also insert other map locations to the route by using the Advanced 'Find.'

Adding a Map Location to an Auto-Route with the Route Properties:

1. Select a point in the route where you want to add a map location. To add a map location to the end of the route, highlight the blank space at the the end of the route list. To add a point anywhere else in the route, click the point in the route list that will follow the location you add.

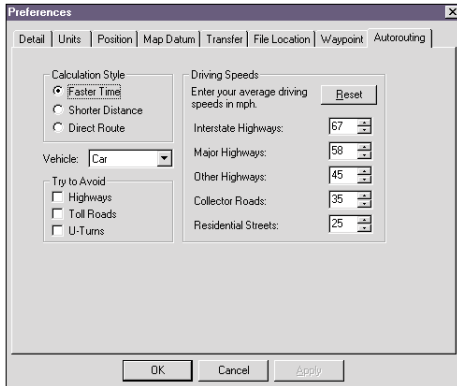
(continued)

Creating Routes



Creating an Auto-Route with the 'Route Properties' Dialog Box

Creating/Editing Routes



Remember that you can set up preferences for creating automatic routes on the 'Autowroutng' Tab under 'Preferences' in the Edit Menu.

2. Click the **Find** button. The Advanced 'Find' dialog box will appear, allowing you to search for a city or point of interest to add to your route. (see pages 28-31 for more information on using the Advanced 'Find' feature.)
3. When you have found the desired map location, click the **OK** button in the Advanced 'Find' dialog box. The map location will be added directly before the point you selected in the route and MapSource will automatically calculate the new location into the route.

Naming a Route

If the *Autoname* checkbox is marked, MapSource will automatically name 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 and enter a name in the 'Name' field.

Inverting a Route

You can reverse the order of the route waypoints by clicking the **Invert** button. This feature is convenient when you want to navigate a route in the reverse direction. When finished, click **OK** or **Show on Map** to save the route.

Editing Routes

Editing Routes on the Graphic Map



Routes can be edited on the Graphic Map using the Selection Tool. You may 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 "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.

Inserting Waypoints Into an Existing Route:

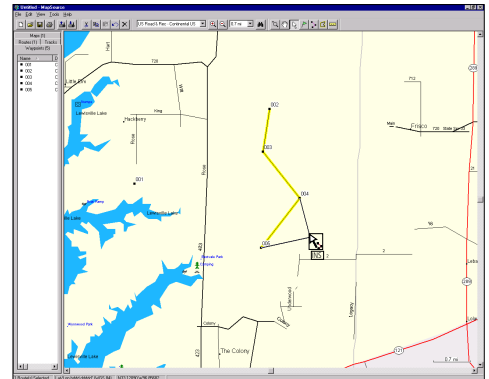
1. With the Selection Tool activated, select the route in the Routes Tab List or on the Graphic Map by clicking on it with the left mouse button. When the route is selected, it will be displayed in yellow.
2. Click the left mouse button on the route leg you want to add a waypoint to, or click the right mouse button on the route leg and select 'Insert Route Section.' The mouse pointer will now have the letters "INS" and a small icon of the Route Tool below it. The route leg will "rubberband," 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 just 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 **Escape** key on your keyboard to quit and save the changes to the route.

Extending a Route (Adding 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 will be displayed in yellow.
2. Left-click on 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 word "ADD" 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.

(continued)

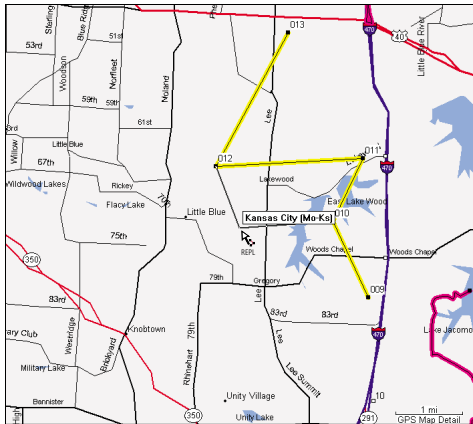
Editing Routes



Adding a Waypoint to a Route

Reference

Editing Routes



Moving a Route Waypoint

4. Repeat these steps to add more waypoints. Click the right mouse button and select 'Cancel', or press the **ESCAPE** key on your keyboard to quit and save the changes to the route.

Removing 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. 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 will be displayed in yellow.
 2. Click the left mouse button on the waypoint (the waypoint will be highlighted in yellow). Select 'Remove Waypoint From Route' from the Edit Menu or from the Right-Click Menu.

Moving 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 will be displayed in yellow.
 2. Left-click on the waypoint you want to move, or right-click the waypoint and select 'Replace Route Section.' The mouse pointer will now have the letters "REPL" and a small icon of the Route Tool below it. The route leg will "rubberband," 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 a Route 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 the **OK** or **Show on Map** button to save the changes and exit.

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

Center Map on Selected Item— With this checkbox marked, when you select a point in the list, it will automatically be centered on the map while you view the 'Route Properties.'

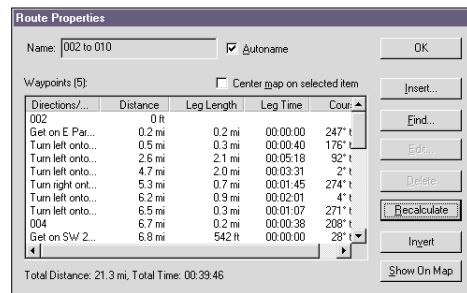
Insert— To add a waypoint, click the waypoint in the list that will follow the point you want to add. Click the **Insert** button and select a waypoint from the list. The waypoint will be inserted directly before the point you selected in the route.

Find— If you are using a MapSource product that includes the Advanced 'Find' feature, this button will be activated, allowing you to search for a city or point of interest to add to the route. See "To Add a Map Location to an Auto-Route with the Route Properties" on page 47 for more information.

Edit— Select the waypoint in the route list and click the **Edit** button. The 'Waypoint Properties' for the selected waypoint will appear. For more information, see "Editing Waypoints" on page 42.

Reference

Editing Routes

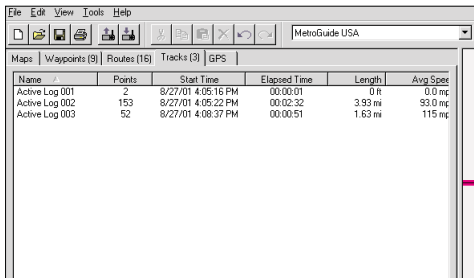


The 'Route Properties' Dialog Box with a Routable MapSource Product

When using a routable product, the 'Route Properties' dialog box will show directions and turns from one waypoint to the next in the selected route.

Reference

Editing Routes/ Tracks



Name	Points	Start Time	Elapsed Time	Length	Avg Speed
Active Log 001	2	8/27/01 4:05:16 PM	00:00:01	0 ft	0.0 mph
Active Log 002	153	8/27/01 4:05:22 PM	00:02:32	3.93 mi	93.0 mph
Active Log 003	52	8/27/01 4:08:37 PM	00:00:51	1.63 mi	115 mph

Tracks Tab List

Delete— To remove a waypoint from a route, select the waypoint on the route list and click the **Delete** button.

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 the **Recalculate** button. You may also use the **Recalculate** button to have a routable MapSource product change a direct route into an automatic route. For more information on setting up the 'Autorouting Preferences' see page 26. This feature only applies to routable MapSource products.

Invert— The **Invert** button will reverse the waypoint order, making the last waypoint become the first waypoint in the 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 will be highlighted in yellow.
2. Press the **Delete** key on your keyboard; or select 'Delete Route' from the Edit Menu; or click the right mouse button on the highlighted route either on the Graphic Map or in the Routes Tab List and select 'Delete Route.'

Tracks

Tracks can be created in MapSource by connecting your GPS to your computer and using the Real Time Tracking feature in the GPS Tab. Those tracks, and any tracks that have been transferred to MapSource from a GPS will be listed in the Tracks Tab List.

Real Time Tracking and the GPS Tab

When real time tracking is enabled, MapSource will read information from the GPS, show the GPS as a red triangle on the Graphic Map, display the tracking data in the GPS Tab, and record 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 unit that supports locked maps
- The GPS unit must be in GARMIN transfer mode, not NMEA mode.

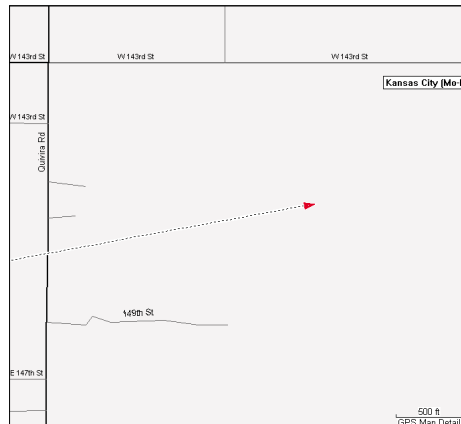
To Start Real Time Tracking:

1. Check that your GPS is properly connected to a serial port on your computer. Set the "Serial Data Format" on your GPS to either GARMIN or NMEA format. MapSource automatically reads the data format—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 to have MapSource record the track, be sure the 'Record Track' box is checked. The track will be recorded and listed in the Tracks Tab.
3. To have MapSource automatically adjust the map to keep the vehicle/GPS (red triangle) visible on the Graphic Map, check the box next to 'Keep Vehicle Visible on Map.'

(continued)

Reference

Real Time Tracking/GPS Tab

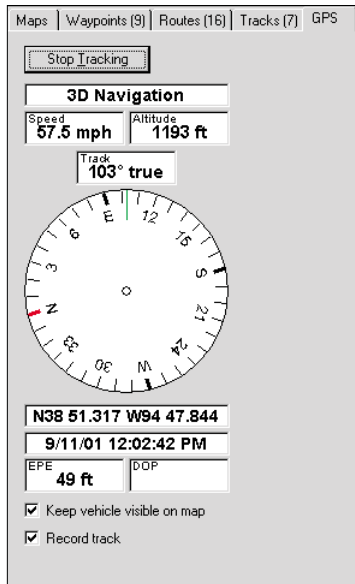


Real Time Tracking on the Graphic Map

With the 'Keep vehicle visible on map' and 'Record track' features selected, MapSource shows the location of the GPS/vehicle (red triangle), keeps it centered on the Graphic Map, and records the track it follows.

Reference

Real Time Tracking/GPS Tab



Real Time Tracking on the GPS Tab

4. The first field describes the current Tracking Status and should display the message "Tracking is disabled." Click the **Start Tracking** button. One of the following messages may appear in the Tracking Status field: "Trying GARMIN format", "Trying NMEA format", "3D Navigation", "3D Differential", "2D Navigation", "2D Differential" or "Poor GPS Coverage." As MapSource reads the GPS data, the tracking data will appear in the GPS Tab data fields below the Tracking Status field.
5. To stop real time tracking, click the **Stop Tracking** button.

GPS Tab Data Fields

The GPS Tab displays the data gathered from the GPS in real time, including tracking status, speed, altitude (not available in NMEA format), current compass heading ('track' field), compass bearing, position coordinates, date and time.

EPE— (Estimated Position Error) The number in this field indicates the estimated accuracy of the horizontal position fix.

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) will remain centered on the Graphic Map during real time tracking, and the map display will continually change to show where the "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 will automatically assign a track name and display it in the Tracks Tab List.

Viewing and Editing Track Properties

To View and Edit Track Properties:

1. Click the right mouse button on the desired track in the Tracks Tab List or on the Graphic Map, then select 'Track Properties;' OR, highlight the desired track in the Tracks Tab List or on the Graphic Map, then select 'Track Properties' from the Edit Menu.
2. Make the desired changes and click **OK** when finished.

You may view the details of the track in the Trackpoints list, highlight any of the Trackpoints and view it on the Graphic Map by selecting 'Center map on selected item,' or view the track on the Graphic Map by clicking the **Show on Map** button. You may also change the track name, assign a color to the track and choose to 'Display on GPS.'

Creating and Using Map Sets



Not all GARMIN GPS systems can use detailed maps. Check your GPS owner's manual to see if your unit is compatible.

What is a Map Set?

A Map Set is one or more detailed regional maps selected from the Graphic Map. The regions 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.

As an example, if you select both Topographical and Roads & Recreational data for the same geographical region, you WILL NOT see a combination or topographic and road data. You will only see data from the Roads & Recreation data set.

Reference

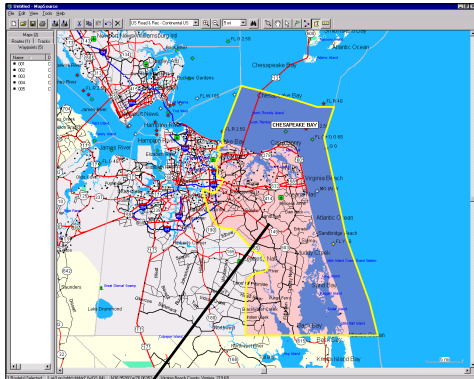
Track Properties/ Map Sets

Position	Time	Altitude	Depth	Leg Length	Leg Time
N 39 09 720 W 94 18 639	9/10/01 5:58:05 PM	1195 ft		102 ft	00:00:01
N 39 09 736 W 94 18 639	9/10/01 5:58:06 PM	1195 ft		102 ft	00:00:01
N 39 09 753 W 94 18 639	9/10/01 5:58:07 PM	1195 ft		102 ft	00:00:01
N 39 09 770 W 94 18 639	9/10/01 5:58:08 PM	1195 ft		102 ft	00:00:01
N 39 09 786 W 94 18 639	9/10/01 5:58:09 PM	1195 ft		102 ft	00:00:01

Track Properties Dialog Box

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 red.

Selecting a Regional Map Using the Map Tool:



1. Select a Zoom Scale that will allow you to view the boundaries of the desired regional 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 regional map, the borders of the region will be outlined in yellow and the region name/memory requirement will be displayed in the Status Bar. The MapSource data that you have loaded determines the geographical map boundaries, and 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 that you have purchased and installed on your computer.

Adding a Map to the Map Set/Maps Tab List:

1. Click the left mouse button in the selected region. To choose several maps, hold the **Shift** key and click and drag the mouse to draw a box through the regions on the Graphic Map. As you add maps, they will be shaded in red. The number of maps and the memory required to store the maps is displayed at the bottom of the Maps Tab.

At the bottom of the Maps Tab List, you will see the number of selected maps and the required memory for the Map Set. If the Map Set contains a large number of maps or a large memory capacity, you may see a warning from MapSource to reduce the number of maps in the 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.

Naming/Renaming a Map Set

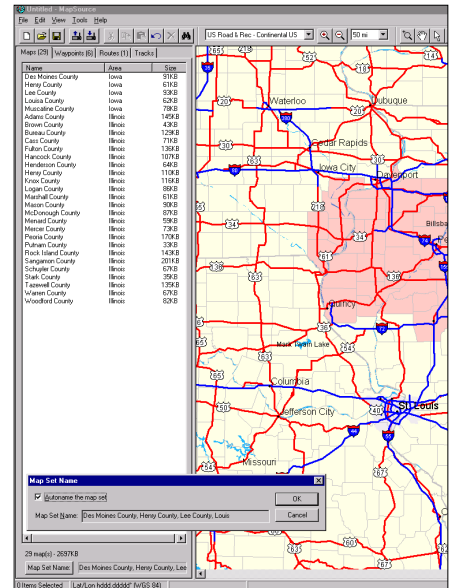
The **Map Set Name** button and 'Name' field are located along the bottom of the Maps Tab List. MapSource will automatically name a Map Set when it is created.

To Rename a Map Set:

1. Click the **Map Set Name** button located along the bottom of the Map Tab List.
2. Verify that the *Autoname* checkbox located on the 'Map Set Name' dialog box is not marked.
3. Enter a new name in the 'Name' field and click the **OK** button.

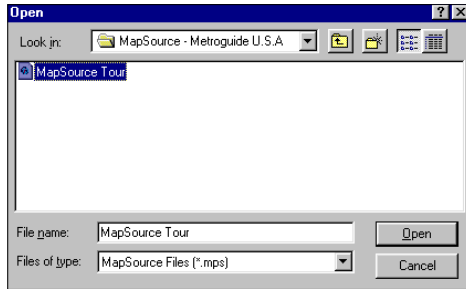
Reference

Map Sets



Naming a Map Set

Transferring Data/ MapSource Documents



'Open' Dialog Box

Transferring Data

Waypoints, tracks, routes and map sets may be transferred between MapSource and your GPS unit. Map sets may be transferred between MapSource and a data card inserted in a USB data card programmer. For detailed instructions on transferring data, see pages 16-18.

MapSource Documents

Saving a MapSource Document:



1. Choose 'Save' from the File Menu, or click the Save button in the File Toolbar.
2. Select a location for your MapSource document and click the **Save** button.

Opening a Previously Saved MapSource Document:



1. Choose 'Open' from the File Menu, or click the Open button in the File Toolbar.
2. Select the saved document and click the **Open** button.

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



NOTE: If you have 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.)

Importing a GARMIN PCX5 Data File

You may 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 Preferred in the Edit Menu), that location will automatically appear.
2. Select the PCX5 data file and click the **Open** Button. MapSource can display PCX5 waypoints (.wpt), routes (.rte), tracks (.trk) or one of the map outlines provided with PCX5 (.grm).



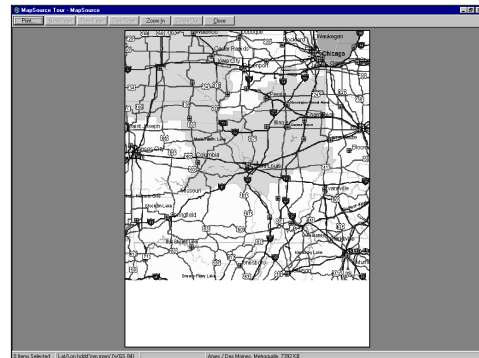
To avoid screen clutter, turn off any MapSource map data, if using a PCX5 map outline.

Printing the Graphic Map

Print, Print Preview and Print Setup function like other Windows applications. Use '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.

Reference



























Printing



Print Preview























Map Legends

Businesses and Attractions

 Ground Transportation	 Zoos And Aquariums
 Air Transportation	 Parks & Gardens
 Auto Repair	 Schools, Colleges & Universities
 Auto Rental	 Libraries
 Gas Stations	 Museums & History
 Parking	 Amusement Parks
 Lodging	 Movie Theaters
 Campgrounds & Rv Parks	 Bars & Nightclubs
 Dining	 Live Theaters
 Grocery Stores, Shopping	 Golf Courses
 Department Stores	 Marina
 Banks & Atm'S	 Pharmacies
 Post Offices	 Hospital

Color map legends can be viewed in MapSource HELP.

Points of Interest

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

Color map legends can be viewed in MapSource HELP.

Appendix A

Map Legends

Appendix A

Map Legends

Lines

Street Or Roadway

Ramp

Arterial Roadway

Other Through Hwy, State Hwy Or Major Arterial

Principal Hwy, Us, Or Limited Acc Hwy

Major Hwy Connector

Major Hwy

Stream Or River

Intermittent/Dry Stream Or River

Railroad

Shipping Route

Land Contour

Depth Contour

Political Boundary

Areas

Flat (Tidal, Sand, Gravel, Mud, Etc.)

Intermittent/Dry River or Lake

Wetland

Glaciers

Golf Course or Park

Lake, River, Sea, Ocean

Man-Made Areas


















Metro Areas

Woods

Fishing Area

Restricted Water


















Navigation Aids and Obstructions

-  LIGHTED NAVAID, MULTI-COLORED
-  LIGHTED NAVAID, BLUE
-  LIGHTED NAVAID, VIOLET
-  LIGHTED NAVAID, ORANGE
-  LIGHTED NAVAID, YELLOW OR AMBER
-  LIGHTED NAVAID, GREEN
-  LIGHTED NAVAID, RED
-  LIGHTED NAVAID, WHITE
-  UNLIT NAVAID, MULTI-COLORED
-  UNLIT NAVAID, ORANGE
-  UNLIT NAVAID, YELLOW OR AMBER
-  UNLIT NAVAID, BLACK
-  UNLIT NAVAID, GREEN
-  UNLIT NAVAID, RED
-  UNLIT NAVAID, WHITE
-  UNLIT NAVAID, OTHER OR UNKNOWN COLOR
-  NAVAID, UNKNOWN CLASSIFICATION

Color map legends can be viewed in MapSource HELP.

Appendix A

Map Legends

-  DAYBEACON, WHITE DIAMOND
-  DAYBEACON, GREEN SQUARE
-  DAYBEACON, RED TRIANGLE
-  RAICON OR RADIO BEACON
-  FOG HORN
-  WRECK, CLEARED BY WIRE-DRUM
-  OBSTRUCTION, CLEARED BY WIRE-DRUM
-  SOUNDING
-  ROCK SUBMERGED AT LOW WATER
-  ROCK AWASH
-  OBSTRUCTION, SUBMERGED
-  OBSTRUCTION, AWASH
-  OBSTRUCTION, VISIBLE AT HIGH WATER
-  SUBMERGED WRECK, NON-DANGEROUS
-  SUBMERGED WRECK, DANGEROUS
-  VISIBLE WRECK
-  UNCLASSIFIED OBSTRUCTION

Appendix A























Map Legends

BlueChart™

Color map legends can be viewed in MapSource HELP.

BlueChart

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		Information
	Beacon		Marina Information
	Building		Pilot Boarding Area
	Buoy		Precautionary Area
	Church		Radio Report Point
	Dangerous Rock		Recommended Anchorage
	Explosive		Rescue Station
	Exposed Rock		Tide Station
	Exposed Wreck		Yacht Harbor

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
 Delete _____ Del
 Remove Waypoint from Route _____ Ctrl + Del
 Select All _____ Ctrl + A
 Preferences _____ Ctrl + Shift + P

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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 _____ Ctrl + F

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