

Advantage FAQ

Question How do I transfer a coordinate system such as a state plane zone coordinate system from LGO to my System 1200 receiver?

Background The Data Exchange Manager enables you to convert LGO database objects (e.g. projects) into objects for the instruments (e.g. jobs) and then transfer them onto the Compact Flash (CF) card.

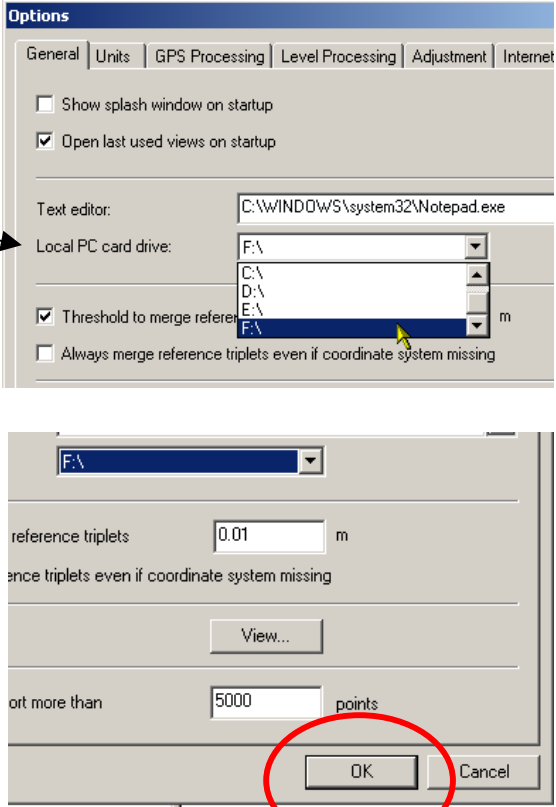
Answer Follow the steps below to transfer a coordinate system to the System 1200's compact flash card. In this example we will be transferring a Georgia West NAD83 coordinate system that was already created in LGO. To learn how to create a state plane coordinate system, see the section titled *Additional Information* at the end of this document.

Note For the remainder of this document, we will use LGO and SKI-Pro (version 3.0) interchangeably, that is both names will mean the same.

CF Card Drive Letter Before we begin, we must make sure that LGO knows which drive letter your card reader has been assigned by Windows. To verify which letter it is, use **Windows Explorer** to see which drive letter has been assigned to the card reader drive. In this example the drive letter that will be used is "F".

Step	Action	Display
1	<p>From the main menu of LGO:</p> <ul style="list-style-type: none"> Click on the Tools pull-down menu and scroll down to the "Options..." selection and left-click on it. <p>This opens the "Options" pop-up window, General tab page.</p>	<p>The screenshot shows the LEICA Geo Office (DEMONSTRATION VERSION) - [Data Exchange] application window. The 'Tools' menu is open, displaying options such as 'Compute Geoid Separations', 'Compute Hidden Points', 'Create Geoid Model Field File...', 'Create C/SCS Model Field File...', and 'Mean Coordinates & Differences'. The 'Options...' option is highlighted in blue. A second screenshot below shows the 'Options...' dialog box with the 'General' tab selected, listing various management options like 'Antenna Management', 'Code/elist Management', 'Precise Ephemeris Management', 'Script Management', and 'Report Template Management'.</p>

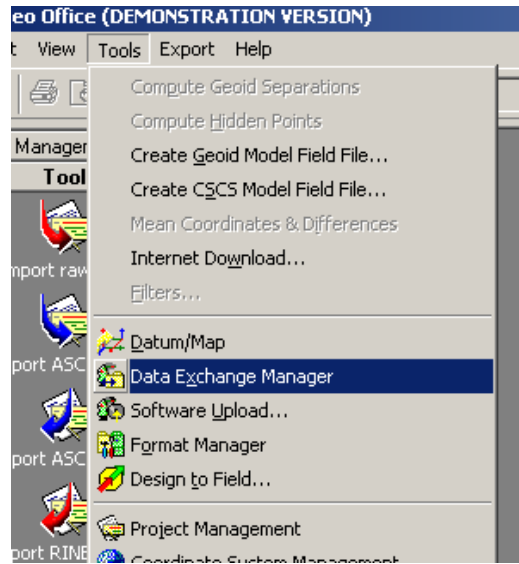
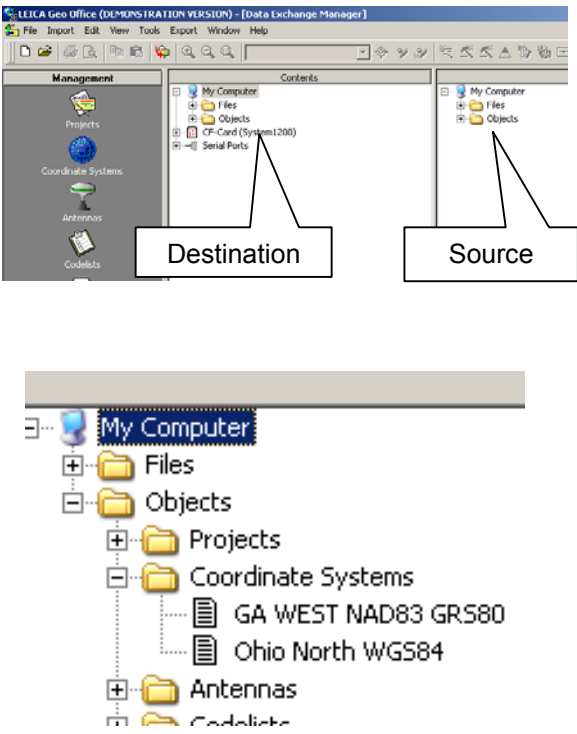
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Step	Action	Display
2	<p>From the “Options” pop-up window, General tab page:</p> <ul style="list-style-type: none"> Click on the “Local PC card drive:” field and select the correct drive letter by left clicking on it. Press the OK button when finished. <p>This sets the drive letter and closes the “Options” pop-up box.</p>	 <p>The screenshot shows the 'Options' dialog box with the 'General' tab selected. The 'Local PC card drive:' dropdown menu is open, displaying a list of drive letters: F:\, C:\, D:\, E:\, and F:\. A mouse cursor is positioned over the second F:\ option. The 'OK' button at the bottom of the dialog is circled in red.</p>

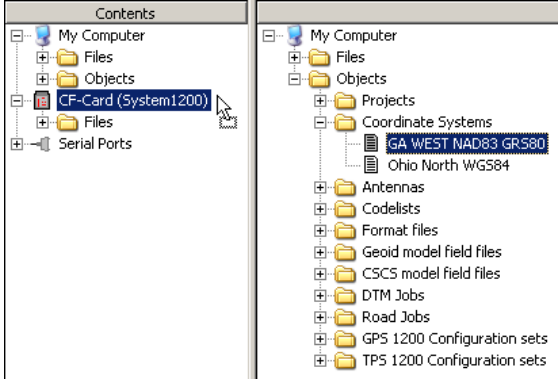
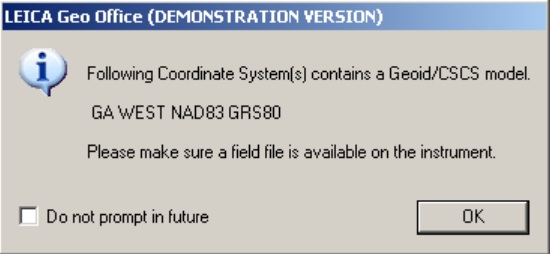
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Data Exchange Manager

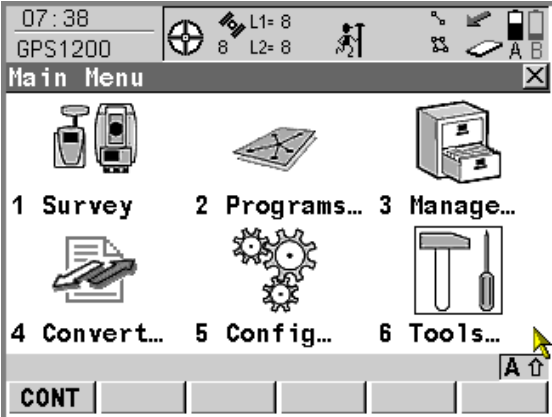
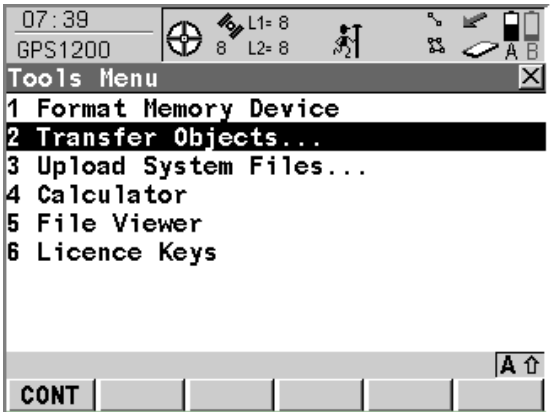

Now lets transfer a coordinate system to the compact flash card.

Step	Action	Display
1	<p>From the main menu of LGO:</p> <ul style="list-style-type: none"> Click on the Tools pull-down menu and select "Data Exchange Manager". <p>This takes you to the Data Exchange Manager view.</p>	
2	<p>In the Data Exchange Manager view:</p> <p>Notice that the screen is split into two sections (Destination and Source). As you can see in the image on the right, the right side of the screen is the data source and the left side is the data's destination (usually a compact flash card).</p> <p>The Objects folder is where LGO items such as projects, coordinate systems, antennas, codelists, etc. exist.</p> <ul style="list-style-type: none"> On the "Source" side, left click on the plus sign on the left side of the Objects folder. This opens the objects folder. Open the Coordinate Systems folder that is in the Objects folder. <p>With the Coordinate Systems folder open we can see its contents.</p>	

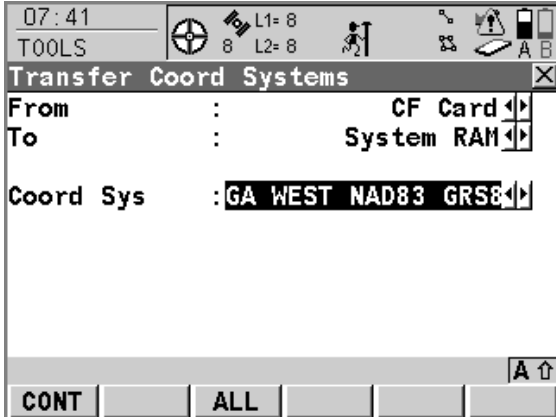

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Step	Action	Display
3	<p>In the opened Coordinate Systems folder:</p> <ul style="list-style-type: none"> Left click on the coordinate system you wish to transfer and drag it over until your mouse pointer is on top of the CF Card name and release the mouse's left button. <p>This automatically copies the coordinate system file into the proper folder (DBX) on the CF card.</p> <p>A warning pop-up message alerts us that this coordinate system has a geoid model attached to it and the geoid model does not get copied over to the card. A geoid model field file must be created in order to work with orthometric heights when using this coordinate system on the GPS1200 receiver.</p> <p>The coordinate system has now been copied onto the compact flash card. Now we need to transfer the coordinate system from the card to the GPS1200 receiver</p> <ul style="list-style-type: none"> Remove the compact flash card from the computer's card reader and insert it into your GPS1200 receiver. <p>We will now move over to the GPS1200 receiver and transfer the coordinate system from the CF card to the receiver.</p>	 <p>The screenshot shows two windows of Windows Explorer. The left window, titled 'Contents', shows a folder named 'CF-Card (System1200)' selected. The right window, titled 'My Computer', shows a tree view of folders including 'Coordinate Systems', with a sub-folder 'GA WEST NAD83 GRS80' highlighted. A mouse cursor is positioned over the 'GA WEST NAD83 GRS80' folder in the right window, indicating it is being dragged from the left window.</p>  <p>The screenshot shows a warning dialog box titled 'LEICA Geo Office (DEMONSTRATION VERSION)'. The message reads: 'Following Coordinate System(s) contains a Geoid/CSCS model. GA WEST NAD83 GRS80. Please make sure a field file is available on the instrument.' There is a checkbox labeled 'Do not prompt in future' which is currently unchecked, and an 'OK' button.</p>

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Step	Action	Display
4	<p>From the Main Menu on the GPS1200 receiver:</p> <ul style="list-style-type: none"> Tap on the “6 Tools...” icon: <p>This takes you to the “GPS1200 Tools Menu” screen.</p>	
5	<p>In the “GPS1200 Tools Menu” screen:</p> <ul style="list-style-type: none"> Tap on the “2 Transfer Objects...” menu option. <p>This takes you to the “Tools Transfer Objects Menu” screen.</p>	
6	<p>In the “Tools Transfer Objects Menu” screen:</p> <ul style="list-style-type: none"> Tap on the “03 Coordinate Systems” menu option. <p>This takes you to the “Tools Transfer Coord Systems” screen.</p>	

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Step	Action	Display
6	<p>In the “Tools Transfer Coord Systems” screen:</p> <ul style="list-style-type: none"> • Ensure that the From field contains “CF Card” and the To field contains “System RAM”. • Use the left or right arrow buttons in the Coord Sys field to find the coordinate system to transfer. • Press the F1 (CONT) button to complete the transfer. <p>This returns you to the Main menu.</p>	
7	<p>In the Main Menu:</p> <p>A “Transfer successfully completed” message is displayed.</p>	

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Summary

You have just learned how to set the PC card drive letter in LGO, transfer a coordinate system from LGO to a compact flash card, and then transfer that coordinate system from the card to the GPS1200 receiver.

Additional Information

To learn more about coordinate systems:

Go to the GPS System 500 Newsletters web page and read the following GPS Newsletters: Vol. 00, Numbers 07, 08, 09, 20, 21, 22, and 23.

For geoid models read GPS System 500 Newsletters Vol. 01, Numbers 19, 20, and 21.

To learn how to create a geoid model field file, follow this link:

http://www.leicaadvantage.com/support/GPS1200/GPSfaq/LGO_SKI_Pro_Questions/OrthoRTK.pdf

Note: This FAQ references System 500 GPS receivers but you now know how to transfer an object using a GPS1200 receiver.
