



CONVERTING BETWEEN NAD83 AND NAD27

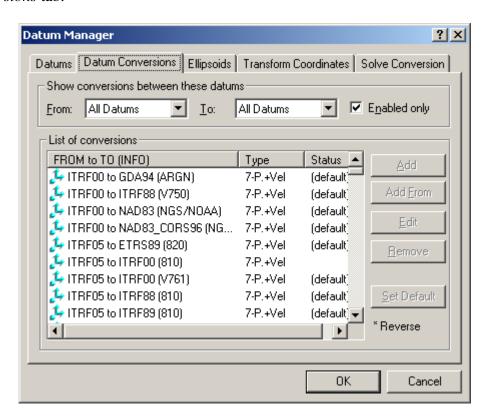
This document is aimed at helping you to implement a conversion between the North American Datum of 1927 (NAD27) and 1983 (NAD83) using data provided by National Geodetic Survey's NADCON program.

Step 1: Download NADCON Grid Files

Visit the NGS website at http://www.ngs.noaa.gov/ and download the NADCON program from the *Tools* section of the website. Unzip the contents of the file into their own directory and make a note of its location. The file of most importance here is the *conus.las* file.

Step 2: Open the Datum Manager

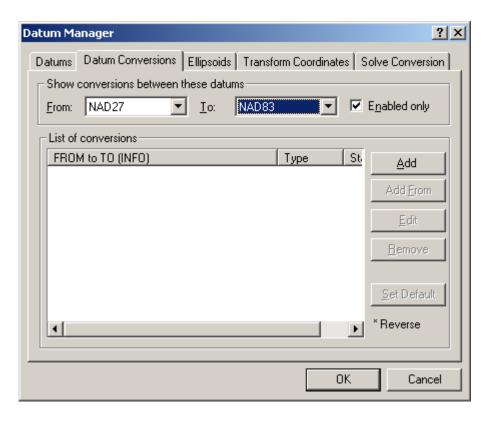
Open the Waypoint software, go to *Tools* | *Datum Manager* and select the *Datum Conversions* tab.



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Step 3: Select Datums for Conversion

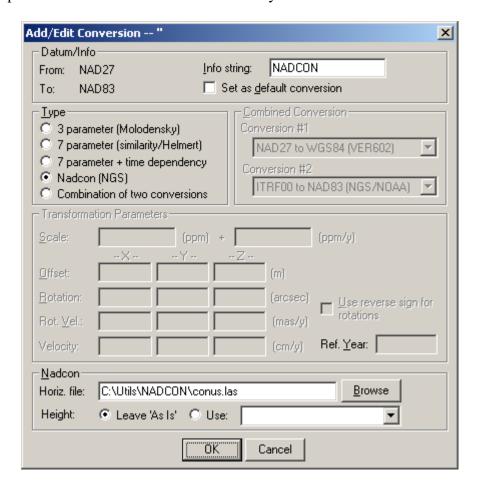
Select **NAD27** under the *From* drop-down menu and select **NAD83** under the *To* drop-down menu.



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Step 4: Add a New Conversion

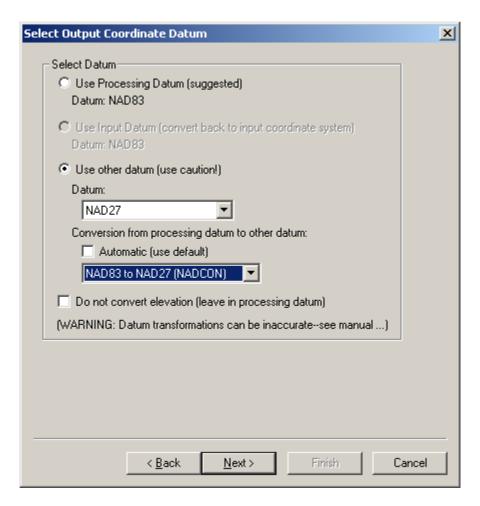
Click the **Add** button to open the *Add/Edit Conversion* window. Enter a meaningful name under the *Info string* field. Then select **Nadcon** (**NGS**) from the *Type* option list. This will give you access to the *Nadcon* box at the bottom of the window, where you must click the **Browse** button to locate the *conus.las* file obtained in **Step 1**. Set the *Height* option to **Leave 'As Is'**. Click **OK** when you are done.



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Step 5: Use the Conversion

The transformation will now be available for use throughout the software, including the *Transform Coordinates* tab of the **Datum Manager**, as well as through the *Export Wizard* (if you need to convert your processed results from either of these datums to the other).



Note: Using the *conus.las* file will define the NADCON conversion only for the conterminous United States. If you need to convert between NAD27 and NAD83 for points located in Alaska or Hawaii, you will need to repeat the procedure outlined here using the *alaska.las* and *hawaii.las* files, respectively, in **Step 4**. Furthermore, this is a horizontal conversion only, so the height component will not be modified when converting between the datums.

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