

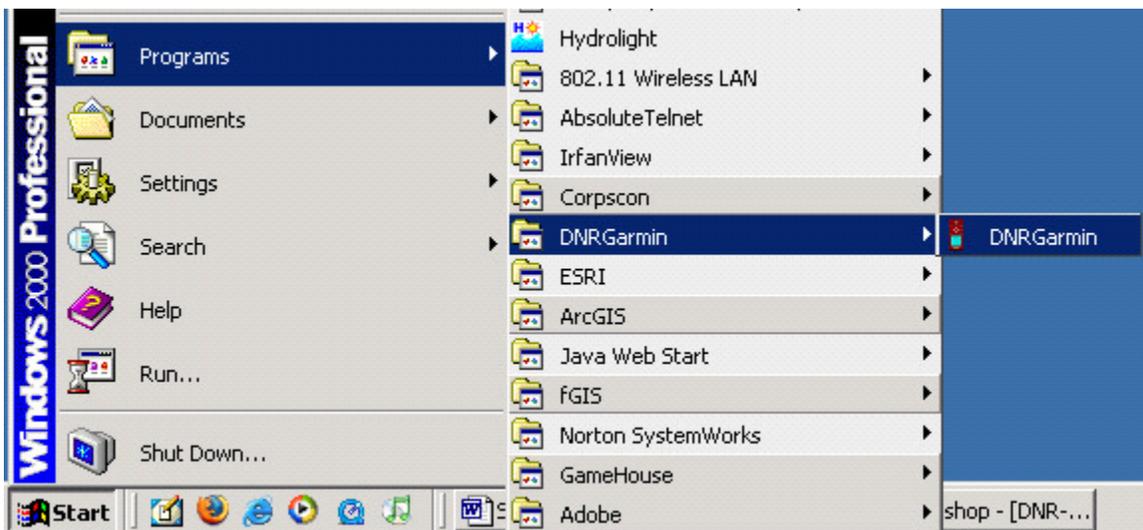
Downloading GPS Data Using DNR Garmin*

1. Getting Started

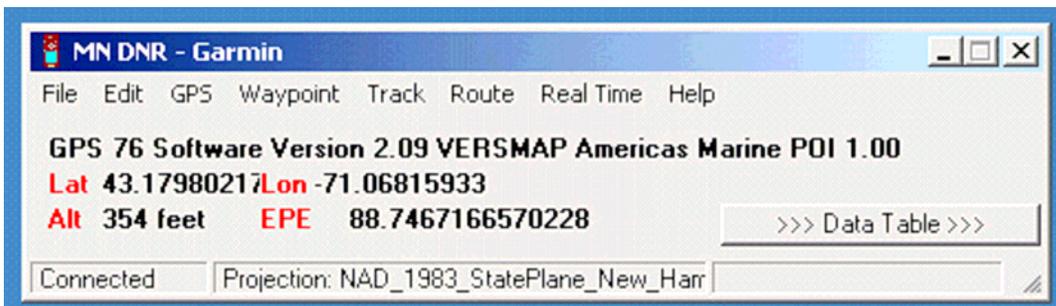
- a) Connect GPS to computer : Hook GPS unit up to computer using USB port connector cable.
- b) Turn GPS unit on: Hold down **POWER BUTTON**.
- c) When GPS is unable to acquire satellites (because you are in a building), press the Menu button and choose "Use with GPS Off"
- d) Launch DNR Garmin program:



- i) Double-click icon on the desktop or
- ii) Click on the **START BUTTON**, Go to **PROGRAMS**, then **DNR GARMIN**, Click on **DNR GARMIN**



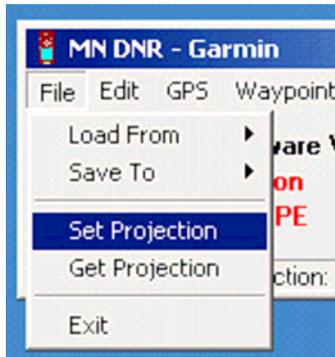
- e) If DNR Garmin is able to connect to your GPS unit, you will see the following:



2. Setting The Projection And Units

Once the GPS is connected to the computer, you will have to set the projection to match the GIS data you will be using to make your map. In VT, VCGI distributes data in the following coordinate system: **North American Datum 1983 (NAD 83), Vermont State Plane Coordinate System in Meters**

- a) To set this projection, go to the **FILE MENU** and select **SET PROJECTION**



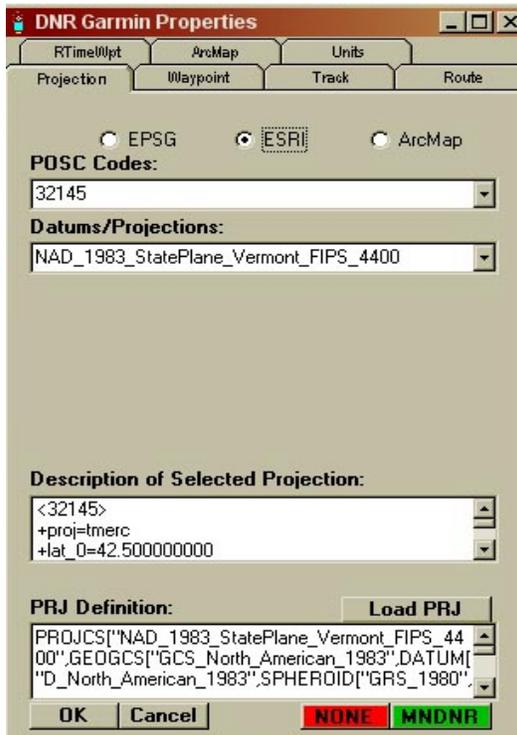
- b) In the section for POSC Codes, click on the radio button for **ESRI**

- c) In the section for **DATUMS/ PROJECTIONS**, select the following:

NAD_1983_StatePlane_Vermont_FIPS_4400

- d) Click on **OK** button on lower left.

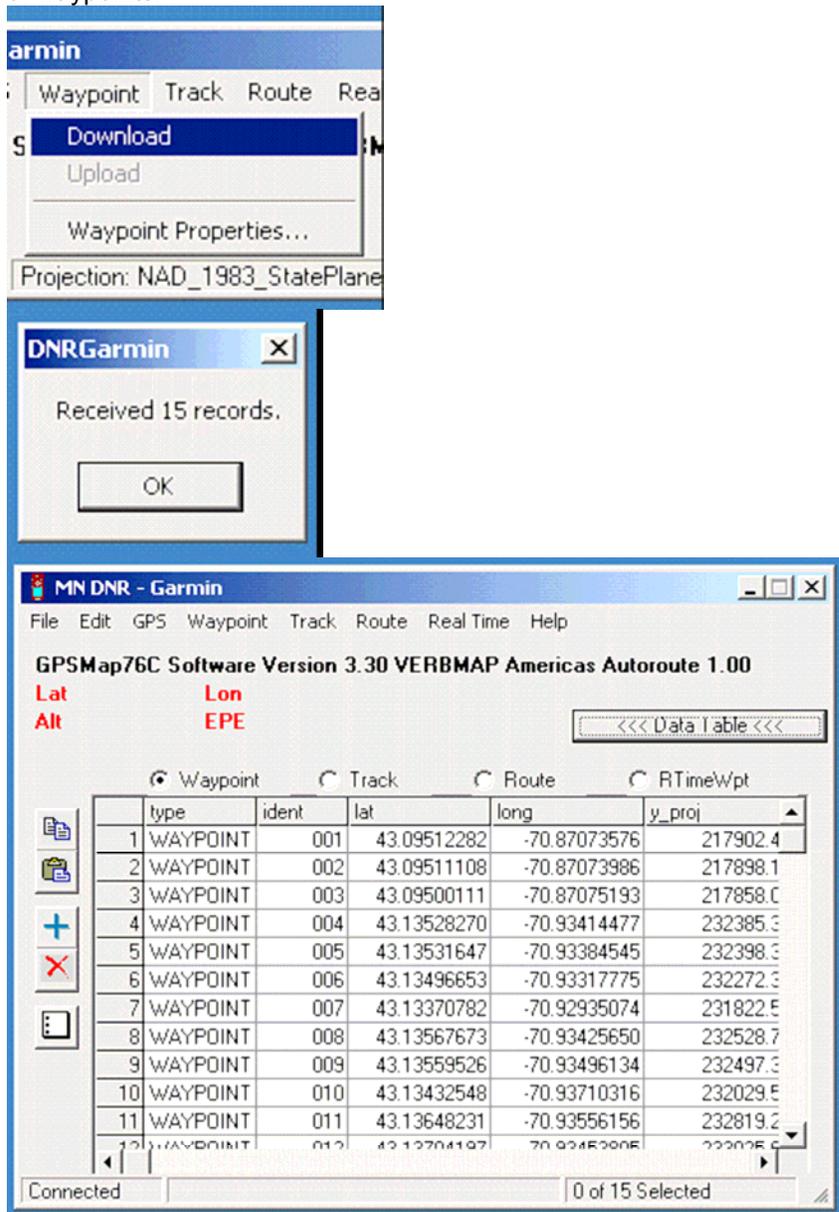
NOTE: The POSC Code at the top of the page should read "32145" when you have chosen the correct Datum/Projection. To skip the step of scrolling down the list, click on the box under **POSC Codes**, type "32145", then push **Enter** on your keyboard.



3. Downloading GPS Waypoint Data

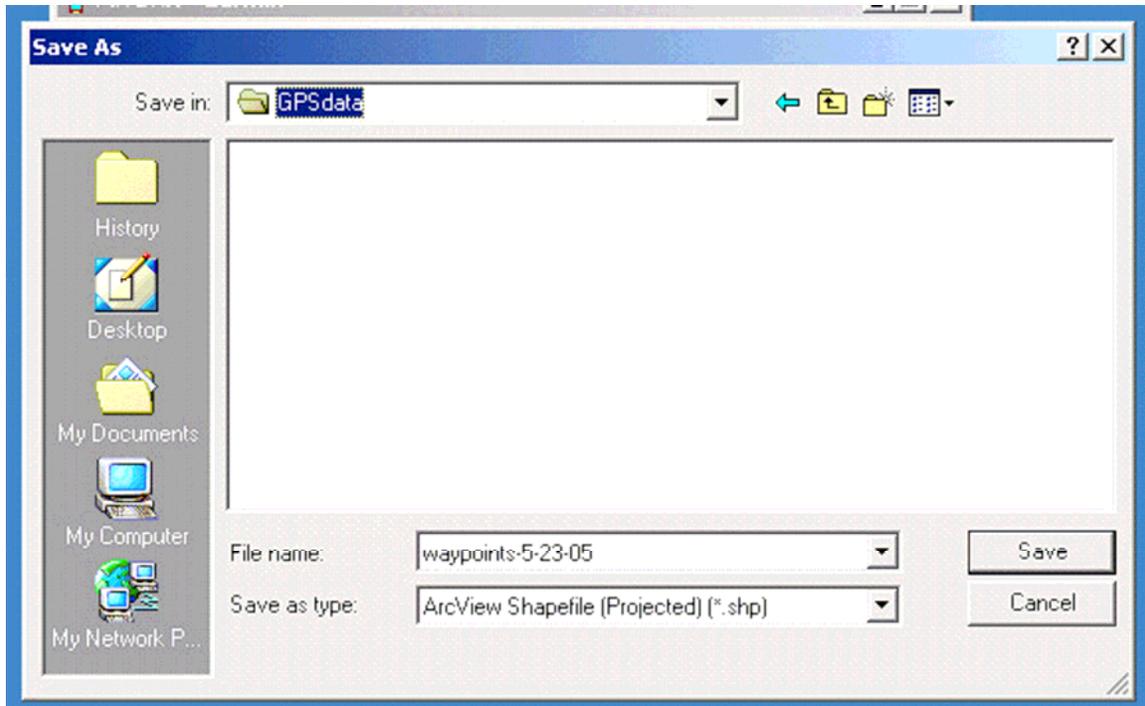
- a) From the **WAYPOINT MENU**, select **DOWNLOAD**
- b) When the download is complete, you will see a box confirming the number of waypoints which you have successfully downloaded.
- c) Click on the **OK BUTTON**.
- d) You will have a list of the points you have downloaded, including a unique number for each point, latitude and longitude, x- and y-coordinates for the chosen projection, a comment field in which you will find the date and time the point was collected, as well as other information.

NOTE: If you do not see a list of points, click on the **DATA TABLE BUTTON** to show the list of waypoints.



4. Exporting GPS Waypoints

- a) Go to the **FILE MENU**, select **SAVE TO**, and select **FILE....**
- b) Click on the **SAVE AS TYPE:** dialogue to select **ARCVIEW SHAPEFILE (PROJECTED)(*.SHP)**.



- c) Navigate to the **Your Directory** then into the **GPSDATA** directory.
- d) Name the file **waypoints-xx-xx-xx.shp**. (replace X with digits for today's date)
- e) Click on the **SAVE BUTTON**.
- f) Click on the **OK BUTTON** when the dialogue appears that informs you the file was successfully written.

OR

- a) Go to the **FILE MENU**, select **SAVE TO**, and select **FILE....**
- b) Click on the **SAVE AS TYPE:** dialogue to select **Text File (Comma-delimited)(.txt)**
- c) Navigate to the **Your Directory** then into the **GPSDATA** directory.
- d) Name the file **waypoints-xx-xx-xx.csv**. (replace X with digits for today's date, and **NOTE that you must change the extension to .csv** rather than allowing the default .txt – ArcExplorer assumes .txt files are tab-delimited)
- e) Click on the **SAVE BUTTON**.
- f) Click on the **OK BUTTON** when the dialogue appears that informs you the file was successfully written.