

# Map Projections

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**NatureMapping Foundation**, the 501c3 non-profit organization created to distribute *NatureMapping* materials and provide *NatureMapping* teachers and communities classroom and technical support, will provide map files for NatureTracker.

Required map information:

Your location in

- latitude/longitude in degrees, minutes, seconds or decimal degrees
- UTM (include zone)

Distance from your location

- North, south, east, west from your location in miles or
- Provide the coordinates of the northwest and southeast corners of your map

**Terrain Navigator Pro**<sup>®</sup> is a software package (PC only) available through Maptech, Inc. ([www.maptech.com](http://www.maptech.com)).

**State agencies may have geo.tiff files – these are maps that can be read directly by CyberTracker and ArcView**<sup>®</sup>.

(Note: Create a folder C:\map\_exports)

**For ArcView**<sup>®</sup> maps in NAD27

File - Open Map

File >> Preferences and change Coordinates from DMS to D.D (decimal degrees) and Datum to NAD27 (You can change this in the export window, but you can't change coordinates,

Click File/Export

In print window, adjust parameters along right edge of window

Select scale option >> (1:24,000 recommended)

**ArcView**<sup>®</sup> - (NatureTracker)

Select projection >> State Plane - (*Lambert Conformal Conic*)

Select zone >> Washington South - (*Washington South*)

Select Datum >> NAD27 feet - (*WGS84 meters*)

Note: In order to select corners of map (i.e. to clip portions of larger map), you must first adjust export options (lower right-hand corner)

Select Quality >> Medium

Select Clipping >> 4 point

Select Area >> User defined

Select Mask >> Adjacent map

Note: At this point you can drag map corners to desired area or type corner coordinates in the appropriate boxes along right edge.

Be sure to record the corner coordinates for NatureTracker by making sure “Save map information file” is on (right above Help button on the right-hand bottom of the screen This will create a .txt file with all the coordinates.

Click OK

Save map as (TIF – ArcInfo<sup>®</sup> (TFW)

Name map and save in C:\map\_exports\