

ESRI compatible GEODAS GRD98 Grids – an ETOPO2 example

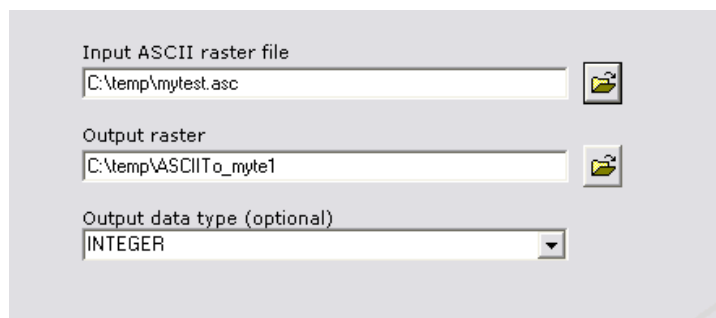
Design a custom grid

First, create a GRD98 Grid using ETOPO2 data according to the directions on the following pages. Save it to **c:\temp**.

Open the Grid Translator program directly from the CD. (Go to Start → Programs → Geodas → Gridtranslator) The GEODAS Grid Translator Program can create grids with boundaries and other grid parameters and options chosen by the user.

Important: If you want to have your custom designed grid in a format other than the GRD98 Grid format you must do this in a 2-step process. The only output format available when you use the *Design-a-Grid* option is the GEODAS Grid Data Format (Binary Raster). You will also want to choose to *Include GRD98 Grid Header*. Once you have created this grid you may run Grid Translator (access this from the CD) again, this time using the *File -> Open Grid* option to open the grid you created.

- 1) Open Grid Translator directly from the CD.
In the Grid Translator dialog box, choose *File -> Open Grid* option to open the GRD98 grid you created. Make your selections and click OK in the Grid Parameters for Output File dialog.
In the Grid Options Dialog choose Output Grid Format as ASCII Raster Format, and choose ArcInfo/ArcView Header. Click OK and save the output ASCII file to the c:\temp directory.
- 2) Open ArcMap .
- 3) Open Spatial Analyst or 3-D Analyst (File -> Extensions...).
- 4) Open the Toolbox and navigate to Conversion Tools ... ASCII to Raster.
- 5) Navigate to the saved Output ASCII file and enter it in the Input ASCII raster file box. The output filename is automatically supplied in the Toolbox. Output as INTEGER data type.



- 6) The ASCII to Raster routine will run and create the new ESRI compatible file. Close the conversion box.
- 7) In ArcMap, click on the Add Data button and navigate to your new raster file. The grids should now appear in ArcMap.

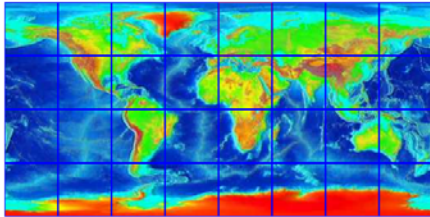
Create the GRD98 grid – ETOPO2 example

Insert the ETOPO2 CD (GB406 E86 2001 CD-ROM), navigate to SETUP folder and install the GEODAS software for Windows.

Open the ETOPO2 program to the splash screen:

ETOPO2 - 2 minute Worldwide Bathymetry/Topography Grids

Click on a 45 by 45 degree square for access to medium and high resolution images



Scroll down to the Help section and follow the Step By Step Instructions which are reproduced here, for your convenience.

? GEODAS Help System

- ETOPO2 Global Gridded Elevation Data
 - [? ETOPO2 Global Gridded Elevations](#)
 - [? Step By Step Instructions](#)
 - [? About GEODAS](#)
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Step By Step: ETOPO2 Global Gridded Database

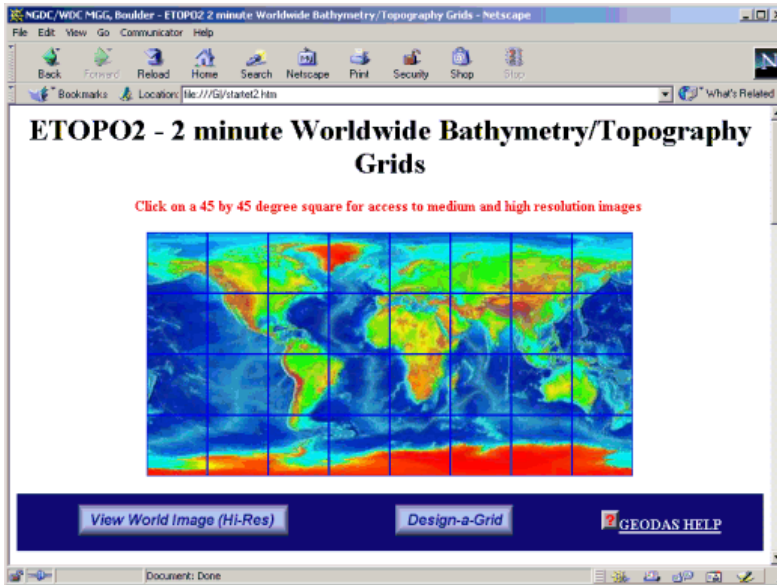
1. Install the GEODAS ETOPO2 CD.

You will find the installation for your platform in the appropriate subdirectory under directory setup. The readme.txt file will contain instructions (i.e. X:\setup\windows\readme.txt or /cdrom/setup/xwindows/readme.txt).

2. Launch the startup home page in your Web Browser.

For MS Windows® once you have run the proper install (setup) program on the GEODAS SETUP CD, you should have a direct (icon) link to the web browser interface for the CD. This link will launch your web browser and open the home page html document (startget2.htm) for the ETOPO2 CD loaded in your CD drive. i.e. After installation you can go to Windows *Start -> Programs -> GEODAS -> ETOPO2 Gridded Elevations*.

3. Access grid images from Grid Locator Map



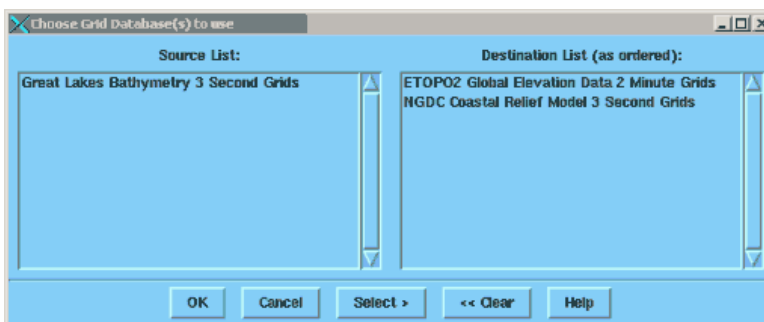
The web page in your browser presents you with a map. The map is divided into grid-blocks, subsections of the complete area. You can click on these grid-blocks to see shaded relief images of the grid-blocks. On the resulting page, you can click on the image of the grid-block to load a higher resolution image of the grid-block.

Clicking the *Design-a-Grid* Button also causes the browser to launch the [GEODAS Grid Translator](#) program. This allows you to create a custom grid of your own chosen limits to the nearest minute, with options for various grid parameters.

Note: Upon launching the Grid Translator program your browser may ask whether to *Save to Disk* or *Open*. Be sure to choose the *Open* option so that the Grid Translator program can start.

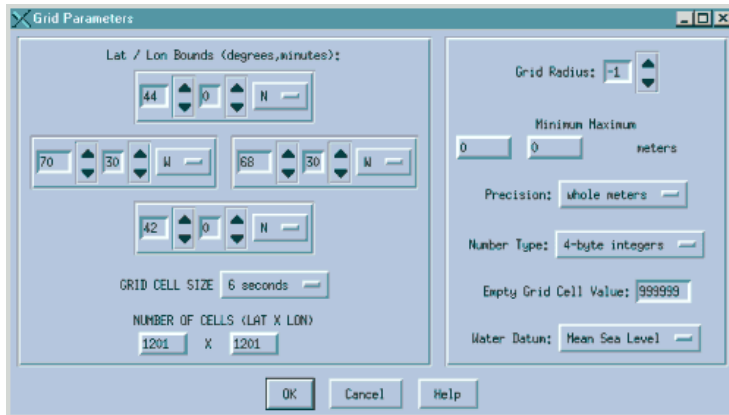
4. Choose Gridded Database

When using Design-a-Grid, you must choose the database(s) you wish to use in creating your grid. The Grid Database Dialog (below) allows you to choose from among all installed GEODAS Grid Databases. If you are using more than one grid database, be sure to select them in the order that you want them processed. (Where grid databases overlap, the overlapping cells will be filled with values from the later database.)



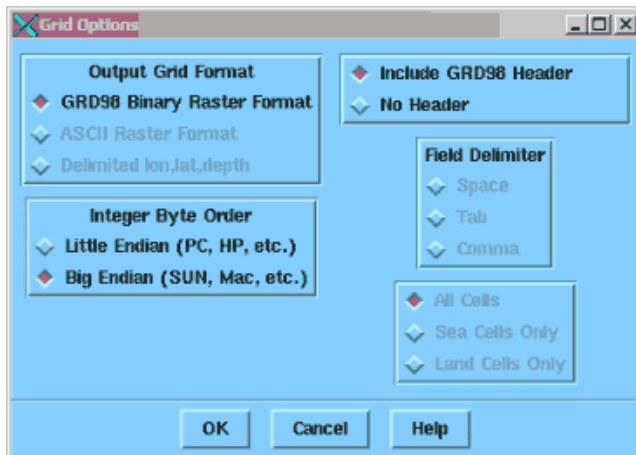
5. Enter or Change Grid Parameters

Design-a-Grid in Grid Translator will present a grid parameters dialog. This will give you the opportunity to enter your own grid limits. Other grid parameters can be entered or changed for your output grid. For more information see [Grid Parameters Dialog](#).



6. Enter or Change Grid Options

Choose the file options for your output grid. Use the [Grid Options Dialog](#) to determine format, byte swapping, header, delimiter, etc.



7. Choose output file location

You will next be presented with the [Save Grid Dialog](#). Use this to name your output file and determine the directory you wish to save it in.