

Programm TOPO

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Das Programm wurde entwickelt unter Verwendung des Gfortran Compilers und dem Betriebssystem Linux (Ubuntu). Wenn ein anderes Betriebssystem verwendet werden soll, kann es notwendig sein, den Quellcode "topo.f95" mit einem entsprechenden Compiler neu zu übersetzen.

Um das Programm TOPO unter Linux zu starten, kopiere alle Dateien in ein Verzeichnis und starte es mit der Anweisung `./topo ↵`. Die einzigen Input-Daten beim Programmstart, die eingegeben werden müssen, sind die Grenzen des (rechtwinkligen) Gebietes auf der Erde, für das die Berechnung durchgeführt werden soll. Diese Grenzen werden in Form von geographischer Breite und Länge gegeben. Für die gesamte Erdoberfläche ist der Bereich der geographischen Breite -90° bis 90° und der (erweiterten) geographischen Länge 0° bis 360° .

The topographic data were taken from Worldbath: ETOPO 5 minute-grid, available over IRI/LDEO Climate Data Library, Columbia University, New York. The download of the data „[X]data.tsv“ is possible via: <https://iridl.ldeo.columbia.edu/SOURCES/.WORLDBATH/.bath/>.

More information about the TOPO program and the calculations is given in the user manual "Planetary Correlation of the Pyramids at Giza and Teotihuacán – P5 Program Description" (4. Edition), section 4.10.6, page 96 ff. and Appendix A2, page 176 ff. The download of the description and the program is via the following link possible: <https://pyramiden-jelitto.de/downloads.html>.

The program was developed using the Gfortran compiler and the Linux (Ubuntu) operating system. If a different operating system is to be used, it may be necessary to again compile the source code "topo.f95" with an appropriate compiler.

To start the TOPO program on Linux, copy all files into a directory and start it with the command: `./topo ↵`. The only input data that needs to be entered at program start are the boundaries of the (right-angled) area on Earth for which the calculation is to be performed. These boundaries are given in the form of geographical latitude and longitude. For the entire Earth's surface, the range of latitude is -90° to 90° and the range of (extended) longitude is 0° to 360° .

The topographic data were obtained from Worldbath: ETOPO 5 arc-minute grid, available at the IRI/LDEO Climate Data Library, Columbia University, New York. The data, [X]data.tsv, can be downloaded using the link: <https://iridl.ldeo.columbia.edu/SOURCES/.WORLDBATH/.bath/>.

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