Rules for Arc Grids

Grids have strict naming conventions!
- Grid names must have no more than 13 characters
- Should contain only letters, numbers, or the underscore character
- Should not be stored in folders that have pathnames containing spaces

*Arc will not always give you an error message, it just won't work!*
If you get an error when trying to use a tool, the extension may not be active.
Clipping Raster Datasets

- There are several ways to clip raster data.
When generating hillshades, the Z units should be in the same units as the X, Y units.

\[ 1^\circ = 110 \text{ km} = 0.00001 \]

Projection

Raster Download Information
- Number of columns: 5400
- Number of rows: 3600
- Resolution in x direction: 9.2592359330005E-05 degree
- Resolution in y direction: 9.2592359330004E-05 degree
- Coordinate system ETH Native: NAD 83
  - Top edge Native: 36.666752901602 degree
  - Bottom edge Native: 36.3532407406763 degree
  - Left edge Native: -89.99999999994419 Degree
  - Right edge Native: -89.49999999998397 Degree

Coordinate system: ID WGS84:
- Top edge WGS84: 36.666752901602 Degree
- Bottom edge WGS84: 36.3532407406763 Degree
- Left edge WGS84: -89.99999999994419 Degree
- Right edge WGS84: -89.49999999998397 Degree
There are several ways to create hillshades
Data Processing II

- Topo map – Group Layer
- Geology – unzip, merge and clip (Data Management Tools)
- Faults – KML 2 Layer (Conversion Tools)
- Seismology – text 2 shape
- GPS data – GPS 2 shape (DNR Garmin)