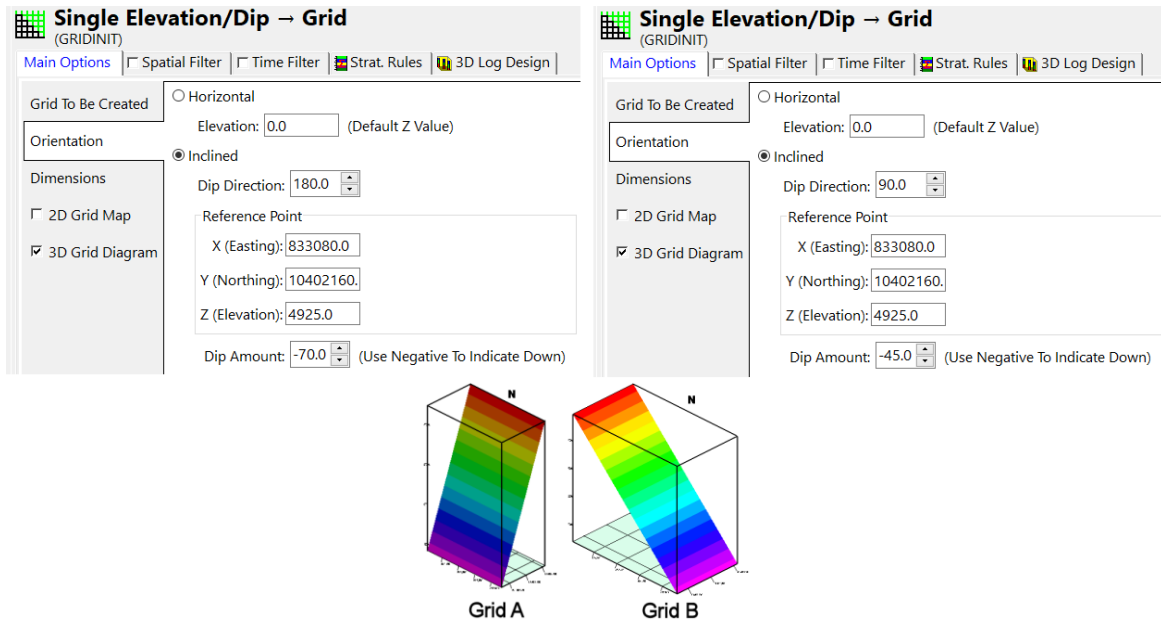


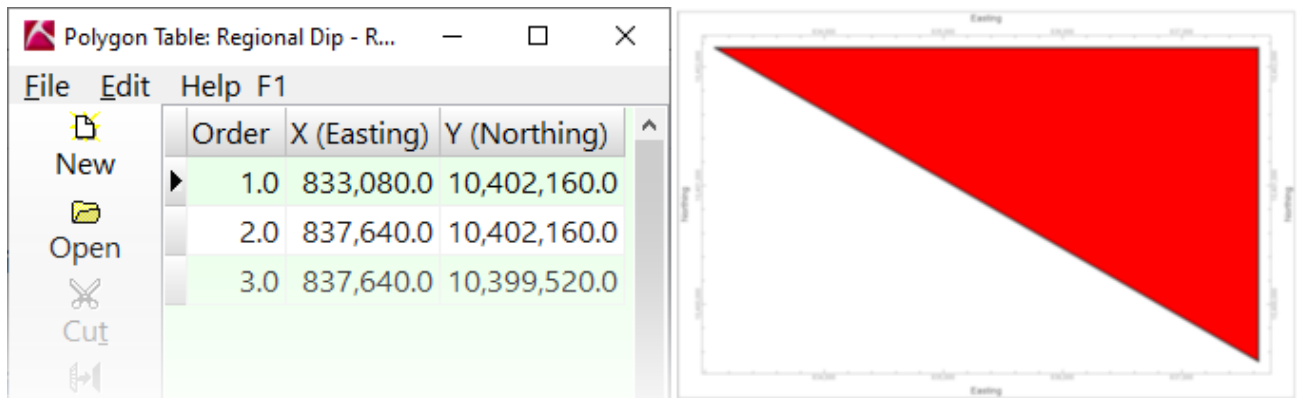
Tilted Modeling with More Than One Dip Direction - 07/27/20/JPR

The tilting capability within RockWorks solid modeling is limited to a single direction and inclination. Unfortunately, this single dip is insufficient for modeling solids in which the regional dip changes within the area being modeled. A solution to this problem is to create a “warping grid” by stitching together two inclined grids based on the following strategy.

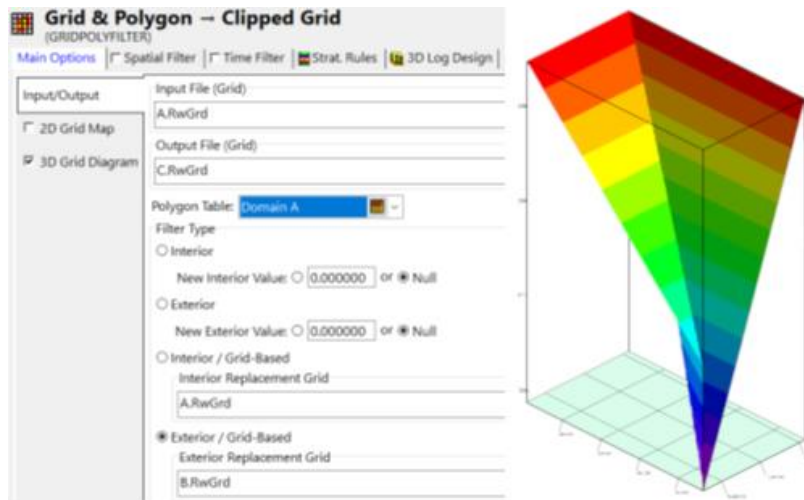
1. Use the ModOps / Grid / Create / Single Elevation/Dip -> Grid program to create two grids that represent the two regional dips.



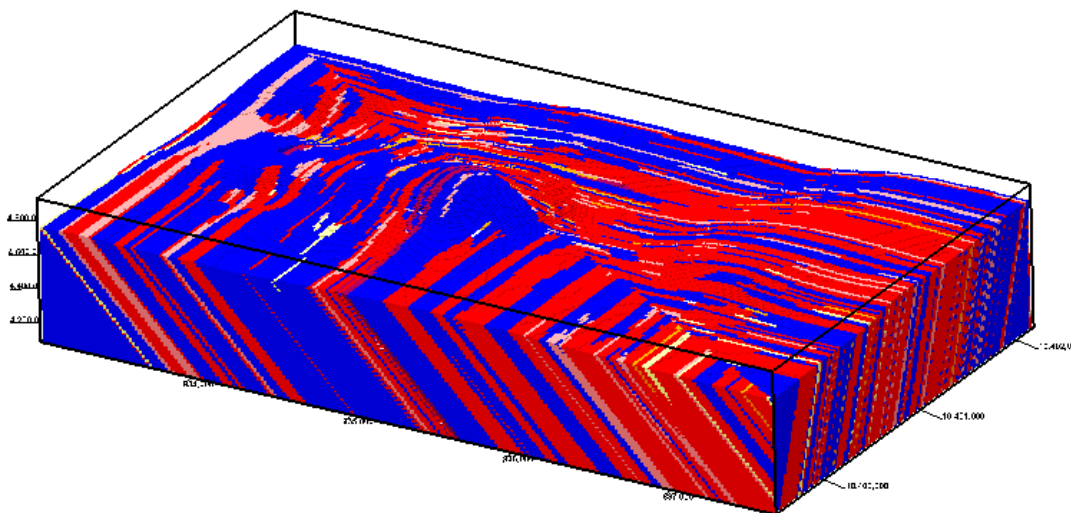
2. Define a polygon that represents the “domain” of inclined Grid A.



- Use the ModOps / Grid / Filters / Polygon program to replace the Grid A nodes outside of Domain A with the nodes from Grid B.



- Use the output (Grid C) as the "warping" grid when interpolating the model.



Tilted Lithology Model

Note: This same strategy may be used to add additional perturbations to the regional dip.