



Leica FAQ

Question

Which geoid model do I use in a coordinate system containing the NADCON(US) CSCS model for NAD27 2-D coordinate conversion?

Answer

The introduction of NADCON(US) CSCS model in SKI-Pro V2.50 provides 2-D coordinate conversion between NAD27 and WGS84 systems. No transformations are required in the coordinate system. Therefore, the only way to correctly convert WGS84 ellipsoid to local orthometric heights in a coordinate system containing NADCON(US) CSCS model is to use WGS84 geoid models such as Geoid 99 or HT1_01.

WGS84 geoid models can be attached to any coordinate system regardless of the local ellipsoid. WGS84 geoid models are defined by assigning the WGS84 ellipsoid to the geoid model definition. WGS84 geoid models will convert directly between (local) orthometric and (global) WGS84 ellipsoid heights without using any transformations.

Which geoid model to use with a NAD27 2-D coordinate conversion?