

China In Six Coordinate Systems



WGS84



UTM Zone 50N



Mercator



Albers Equal Area Conic



Lambert Conformal Conic



Equidistant Conic

Choosing the correct projection for your map is crucial. Different projections preserve different aspects of the subject map. In the above examples of China, the WGS84 and Mercator preserve distance and angle but they distort the area and shape of the country. By localizing the projection, the UTM Zone 50N preserves the shape but distorts the angle and distance. The Lambert Conformal Conic preserves all the categories which is ideal when using it for small areas but is not appropriate for larger areas. Albers Equal Area Conic and Equidistant Conic preserve the shape, area, and distance along the the latitude but there is distortion along the longitudinal lines.



0 1,000 2,000
Kilometers