

CHINA IN SIX COORDINATE SYSTEMS



WGS84



UTM ZONE 50N



MERCATOR



ALBERS EQUAL
AREA CONIC



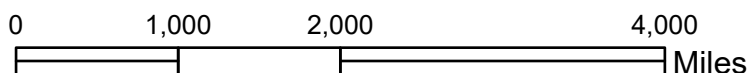
LAMBERT CONFORMAL CONIC



EQUIDISTANT CONIC



WGS84: MORE ELLIPSOID DISTORTION FURTHER FROM EQUATOR, BUT MINIMAL UNTIL POLES. UTM-ZONE-50N: ACCURATE ALONG X/Y AXIS BUT LOSES ACCURACY FURTHER FROM AXIS. MERCATOR: SIZE DISTORTION INCREASES NEAR POLES, BUT MINIMAL OTHERWISE. ALBERS EQUAL: CONIC PROJECTION MOST ACCURATE NEAR N-POLE WITH MASSIVE DISTORTION ON EDGES. LAMBERT CONFORMAL: CONIC PROJECTION EQUALLY ACCURATE WITH PROPORTIONAL DISTORTION TO DISTANCE. EQUIDISTANT: CONIC PROJECTION THAT MAINTAINS DISTANCE ACCURACY ACROSS MOST OF RANGE.



Source: Natural Earth, Esri
Cody D. Leviloff, GSP 316, Feb 2020