

Comparing DEM Resolution and Accuracy

Dataset	Coverage	Resolution	Approximate Elevation Accuracy
SRTM (DTED 1)	Global	90 m	+/- 10 – 20m
SRTM (DTED2)	North America	30 m	+/- 10 – 20m
USGS NED	North America	30 m	+/- 7 – 10m
USGS NED	North America	10 m	+/- 7 – 10m
Intermap Technologies	NA/UK/Europe/etc.	5 m	+/- 1m (RMSE)

What does resolution mean

- 1 unit on a map models a horizontal area of X by X meters on the ground (imagine a pixel size on a computer screen). Each of these units then has a single elevation or vertical value assigned to it. This means Intermap's Data is 4X to 36X Higher Resolution than NED data and 36X to 324X Higher Resolution than SRTM data for geography we cover.

SRTM – Shuttle Radar Topographic Mission

- Intermap processed and edited 70% of this dataset

USGS NED – US Geological Survey

- National Elevation Dataset – Data is in many cases several decades old.

