

Map projections in Norway

The official map projection EUREF89 UTM

The official geodetic datum in Norway is EUREF89. The official map projection is UTM, Universal Transverse Mercator. For general information on the UTM projection, go to http://en.wikipedia.org/wiki/Universal_Transverse_Mercator_coordinate_system

Norway is covered by the zones 32-36, but only three UTM zones are used for map purposes.

| EUREF89 UTM zone: | Central meridian | Scale factor | Max ppm | False N | False E |
|------------------------------|-----------------------------|---------------------|----------------|----------------|----------------|
| 32 | 9° | 0,9996 | -400 | 0 | 500.000 |
| 33 | 15° | 0,9996 | -400 | 0 | 500.000 |
| 35 | 27° | 0,9996 | -400 | 0 | 500.000 |

EUREF89 NTM for construction purposes

Due to the large scale factor in the UTM projection, this system is not suitable for construction projects. The Norwegian Mapping Authority has provided an alternative map projection more suitable for construction projects. The name of this map projection is EUREF89 NTM.

- 26 zones, 1 degree zone width
- Central meridians at $5^{\circ}30'$, $6^{\circ}30'$, etc.
- Origin of north coordinates at 58° N
- False northing 1 000 000
- False easting 100 000
- Reference ellipsoid GRS80
- Scale factor 1.0000 at the central meridians
- Max. scale factor 11 ppm



NTM zones

| EUREF89 NTM zone | Central meridian | Scale factor | Max ppm | False N | False E |
|-----------------------------|-----------------------------|---------------------|----------------|-----------------------------|----------------|
| Zone 5 | $5^{\circ}30'$ | 1.0000 | 11 | $B58^{\circ}N: x=1.000.000$ | 100.000 |
| Zone 6 | $6^{\circ}30'$ | 1.0000 | 11 | $B58^{\circ}N: x=1.000.000$ | 100.000 |
| : | : | : | | : | : |
| Zone 30 | $30^{\circ}30'$ | 1.0000 | 5 | $B58^{\circ}N: x=1.000.000$ | 100.000 |