

ISO Geodetic Registry

| | | |
|---------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Item class</i> | Conversion | |
| <i>Name</i> | UTM zone 45N | |
| <i>Item status</i> | VALID | |
| <i>Identifier</i> | 890 | |
| <i>Alias</i> | UTM zone 45 | |
| <i>Information source</i> | <i>Title</i> | The Universal Grids and the Transverse Mercator and Polar Stereographic Map Projections |
| | <i>Author</i> | National Geospatial-Intelligence Agency (NGA) |
| | <i>Publisher</i> | National Geospatial-Intelligence Agency (NGA) |
| | <i>Revision date</i> | 2014-03-25 |
| | <i>Series/Journal name</i> | National Geospatial-Intelligence Agency Standardization Document |
| | <i>Issue identification</i> | NGA.SIG.0012_2.0.0_UTMUPS Version 2.0.0 |
| | <i>Other citation details</i> | https://nsgreg.nga.mil/doc/view?i=4056&month=3&day=28&year=2022 (accessed 2022-04-20) |
| | <i>Title</i> | Geomatics Guidance Note No 7, part 2: Coordinate Conversions and Transformations including Formulas |
| | <i>Author</i> | International Association of Oil and Gas Producers (IOGP) |
| | <i>Publisher</i> | International Association of Oil and Gas Producers (IOGP) |
| <i>Information source</i> | <i>Revision date</i> | 2021-11 |
| | <i>Edition</i> | 61 |
| | <i>Series/Journal name</i> | IOGP Publication |
| | <i>Issue identification</i> | 373-7-2 |
| | <i>Other citation details</i> | https://epsg.org/guidance-notes.html (accessed 2022-01-19) |
| | <i>Other citation details</i> | |
| <i>Data source</i> | ISO Geodetic Registry | |
| <i>Scope</i> | Spatial referencing | |
| <i>Operation method</i> | Transverse Mercator Projection | |

Extent

| | | |
|--------------------------------|------------------------------------------------------------------------------------------------------------|------|
| <i>Description</i> | World - onshore and offshore - between 84°E and 90°E, northern hemisphere between equator and 84°N. | |
| <i>Geographic Bounding Box</i> | <i>West-bound longitude</i> | 84.0 |
| | <i>North-bound latitude</i> | 84.0 |
| | <i>East-bound longitude</i> | 90.0 |
| | <i>South-bound latitude</i> | 0.0 |

Operation parameter values

| | |
|---------------------------------------|----------------|
| <i>Latitude of natural origin</i> | 0.0 degree |
| <i>Longitude of natural origin</i> | 87.0 degree |
| <i>Scale factor at natural origin</i> | 0.9996 unity |
| <i>False easting</i> | 500000.0 metre |
| <i>False northing</i> | 0.0 metre |

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| | |
|--------------------|---------------------------------------|
| <i>Item class</i> | OperationMethod |
| <i>Name</i> | Transverse Mercator Projection |
| <i>Item status</i> | VALID |
| <i>Identifier</i> | 834 |
| <i>Alias</i> | Gauss-Boaga |
| <i>Alias</i> | TM |
| <i>Alias</i> | Gauss-Kruger |
| <i>Data source</i> | ISO Geodetic Registry |

Operation parameters

| |
|---------------------------------------|
| <i>Latitude of natural origin</i> |
| <i>Longitude of natural origin</i> |
| <i>Scale factor at natural origin</i> |
| <i>False easting</i> |
| <i>False northing</i> |