

# ISO Geodetic Registry

|                           |                                |   |
|---------------------------|--------------------------------|---|
| <i>Item class</i>         | Conversion                     |   |
| <i>Name</i>               | <b>UTM zone 48S</b>            |   |
| <i>Item status</i>        | VALID                          |   |
| <i>Identifier</i>         | 838                            |   |
| <i>Alias</i>              | UTM zone -48                   |   |
| <i>Information source</i> | <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>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>  | <a href="https://epsg.org/guidance-notes.html">https://epsg.org/guidance-notes.html</a> (accessed 2022-01-19)   |
|                           | <i>Title</i>                   | The Universal Grids and the Transverse Mercator and Polar Stereographic Map Projections   |
|                           | <i>Author</i>                  | National Geospatial-Intelligence Agency (NGA)   |
| <i>Information source</i> | <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>  | <a href="https://nsgreg.nga.mil/doc/view?i=4056&amp;month=3&amp;day=28&amp;year=2022">https://nsgreg.nga.mil/doc/view?i=4056&amp;month=3&amp;day=28&amp;year=2022</a> (accessed 2022-04-20) |
| <i>Data source</i>        | ISO Geodetic Registry          |   |
| <i>Scope</i>              | Spatial referencing            |   |
| <i>Operation method</i>   | Transverse Mercator Projection |   |

## Extent

|                                |  |       |
|--------------------------------|--|-------|
| <i>Description</i>             | <b>World - onshore and offshore - between 102°E and 108°E, southern hemisphere between equator and 80°S.</b> |       |
| <i>Geographic Bounding Box</i> | <i>West-bound longitude</i>  | 102.0 |
|                                | <i>North-bound latitude</i>  | -80.0 |
|                                | <i>East-bound longitude</i>  | 108.0 |
|                                | <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>    | 105.0 degree   |
| <i>Scale factor at natural origin</i> | 0.9996 unity   |
| <i>False easting</i>                  | 500000.0 metre |
| <i>False northing</i>                 | 1.0E7 metre    |

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|                    |                                       |
|--------------------|---------------------------------------|
| <i>Item class</i>  | OperationMethod                       |
| <i>Name</i>        | <b>Transverse Mercator Projection</b> |
| <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>                 |