ISO Geodetic Registry

Item class	Conversion	
Name	**UTM zone 31N**	
Item status	VALID	
Identifier	847	
Alias	UTM zone 31	
Information source	*Title*	The Universal Grids and the Transverse Mercator and Polar Stereographic Map Projections
	Author	National Geospatial-Intelligence Agency (NGA)
	Publisher	National Geospatial-Intelligence Agency (NGA)
	Revision date	2014-03-25
	Series/Journal name	National Geospatial-Intelligence Agency Standardization Document
	Issue identification	NGA.SIG.0012_2.0.0_UTMUPS Version 2.0.0
	Other citation details	https://nsgreg.nga.mil/doc/view?i=4056&month=3&day=28&year=2022 (accessed 2022-04-20)
Information source	*Title*	Geomatics Guidance Note No 7, part 2: Coordinate Conversions and Transformations including Formulas
	Author	International Association of Oil and Gas Producers (IOGP)
	Publisher	International Association of Oil and Gas Producers (IOGP)
	Revision date	2021-11
	Edition	61
	Series/Journal name	IOGP Publication
	Issue identification	373-7-2
	Other citation details	https://epsg.org/guidance-notes.html (accessed 2022-01-19)
Data source	ISO Geodetic Registry	
Scope	Spatial referencing	
Operation method	Transverse Mercator Projection	

Extent

Description	**World - onshore and offshore - between 0°E and 6°E, northern hemisphere between equator and 84°N.**	
Geographic Bounding Box	*West-bound longitude*	0.0
	North-bound latitude	84.0
	East-bound longitude	6.0
	South-bound latitude	0.0

Operation parameter values

Latitude of natural origin	0.0 degree
Longitude of natural origin	3.0 degree
Scale factor at natural origin	0.9996 unity
False easting	500000.0 metre
False northing	0.0 metre

ISO Geodetic Registry

Item class	OperationMethod
Name	**Transverse Mercator Projection**
Item status	VALID
Identifier	834
Alias	Gauss-Boaga
Alias	TM
Alias	Gauss-Kruger
Data source	ISO Geodetic Registry

Operation parameters

Latitude of natural origin
Longitude of natural origin
Scale factor at natural origin
False easting
False northing