

Description of CRS - UA_UCS-2000 / GK_6	
Attribute	Entry
Country	Ukraine
Country identifier	UA
CRS identifier	UA_UCS-2000 / GK_6
CRS alias	UCS Transverse Mercator CRS UCS-2000 / GK_6 EPSG codes: 5562...5569 for zone 4...7
CRS valid area	Ukraine
CRS scope	CRS for conformal Ukrainian mapping at scales smaller than 1 : 10 000
CRS remarks	Gauß-Krüger-Projektion, 6 deegree zones
Datum identifier	Ukraine2000
Datum alias	
Datum type	geodetic
Datum anchor point	Orientation and scale constrained to be same as ITRF2000 at epoch 2005.0. Position is minimised deviation between reference ellipsoid and quasigeoid in territory of Ukraine.
Datum realization epoch	2005
Datum valid area	Ukraine
Datum scope	Geodesy
Datum remarks	
Prime meridian identifier	Greenwich
Prime meridian greenwich longitude	0°
Prime meridian remarks	
Ellipsoid identifier	Krassovsky 1940
Ellipsoid alias	
Ellipsoid semi major axis	6 378 245 m
Ellipsoid shape	true
Ellipsoid inverse flattening	298.3
Ellipsoid remarks	
Coordinate system identifier	GK_6
Coordinate system type	projected
Coordinate system dimension	2
Coordinate system remarks	
Coordinate system axis name	N
Coordinate system axis direction	North
Coordinate system axis unit identifier	metre
Coordinate system axis name	E
Coordinate system axis direction	East
Coordinate system axis unit identifier	metre
Operation identifier	GK_6
Operation valid area	Ukraine
Operation scope	
Operation method name	Transverse Mercator Projection
Operation method name alias	Gauß Krüger Projection
Operation method formula	Transverse Mercator Mapping Equations, in Hooijberg,

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Attribute	Entry
	Practical Geodesy, 1997, pages 81-84
Operation method parameters number	7
Operation method remarks	Transverse Mercator Projektion in zones of 6°
Operation parameter name	latitude of origin
Operation parameter value	0°
Operation parameter remarks	0°, the Equator
Operation parameter name	longitude of origin
Operation parameter value	in general: central meridian (CM) of each zone for UA: 21° E, 27° E, 33° E, 39° E in use
Operation parameter remarks	central meridians 3° E, 9° E, 15° E, 21° E,....
Operation parameter name	false northing
Operation parameter value	0 m
Operation parameter remarks	
Operation parameter name	false easting
Operation parameter value	in general: 500 000 + (n * 10**6) m, with n...zone number e.g. 4 500 000 for zone number 4 (CM = 21° E)
Operation parameter remarks	
Operation parameter name	scale factor at central meridian
Operation parameter value	1.0000
Operation parameter remarks	
Operation parameter name	width of zones
Operation parameter value	6°
Operation parameter remarks	
Operation parameter name	zone number n
Operation parameter value	in general: $n = (\text{longitude value of central meridian} + 3) / 6$ for UA: zones 4, 5, 6, 7
Operation parameter remarks	