

# ISO Geodetic Registry

Item class	GeodeticCRS	
Name	Korean 1985 - LatLon	
Item status	VALID	
Identifier	1011	
Alias	Korean 1985	
Alias	Korean 1985 Datum	
Information source	Title	Korea Geodetic Framework for Sustainable Development
	Author	J.-H. Kwon
	Publisher	United Nations Economic and Social Council
	Publication date	2012
	Series/Journal name	Nineteenth United Nations Regional Cartographic Conference for Asia and the Pacific, Bangkok, 29 October – 1 November 2012
	Issue identification	E/CONF.102/IP.17
	Other citation details	https://unstats.un.org/unsd/geoinfo/rcc/docs/rccap19/ip/E_Conf.102_IP17_Korea_19th_UNRCC-AP_Session3_26%20Oct.pdf (accessed 2023-04-10)
	Title	Korean origin of longitude and latitude
	Author	Geodesy Department, NGII
	Publisher	National Geographic Information Institute (NGII), Ministry of Construction and Transportation, Republic of Korea
Information source	Revision date	2018-05
	Other citation details	Web page in Korean, accessible only within Korea. https://www.ngii.go.kr/kor/content.do?sq=189#none (accessed 2023-06-01)
	Title	Grids & Datums: The Republic of Korea
	Author	C.J. Mugnier
	Publisher	American Society for Photogrammetry and Remote Sensing
	Publication date	2017
	Series/Journal name	Photogrammetric Engineering & Remote Sensing
	Issue identification	Volume 83, No. 8, August 2017
	Page	537-539
	Other citation details	https://doi.org/10.14358/PERS.83.8.539 (accessed 2023-04-10)
Data source	ISO Geodetic Registry	
Scope	Spatial referencing	
Datum	Korean 1985 Datum	
Coordinate System	Ellipsoidal 2D CS. Axes: latitude, longitude. Orientations: north, east. UoM: degree	

## Extent

<i>Description</i>	<b>Republic of Korea - onshore and offshore</b>
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# ISO Geodetic Registry

<i>Item class</i>	GeodeticDatum	
<i>Name</i>	<b>Korean 1985 Datum</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	1004	
<i>Information source</i>	<i>Title</i>	Korean origin of longitude and latitude
	<i>Author</i>	Geodesy Department, NGII
	<i>Publisher</i>	National Geographic Information Institute (NGII), Ministry of Construction and Transportation, Republic of Korea
	<i>Revision date</i>	2018-05
	<i>Other citation details</i>	Web page in Korean, accessible only within Korea. <a href="https://www.ngii.go.kr/kor/content.do?sq=189#none">https://www.ngii.go.kr/kor/content.do?sq=189#none</a> (accessed 2023-06-01)
<i>Information source</i>	<i>Title</i>	Grids & Datums: The Republic of Korea
	<i>Author</i>	C.J. Mugnier
	<i>Publisher</i>	American Society for Photogrammetry and Remote Sensing
	<i>Publication date</i>	2017
	<i>Series/Journal name</i>	Photogrammetric Engineering & Remote Sensing
	<i>Issue identification</i>	Volume 83, No. 8, August 2017
	<i>Page</i>	537-539
	<i>Other citation details</i>	<a href="https://doi.org/10.14358/PERS.83.8.539">https://doi.org/10.14358/PERS.83.8.539</a> (accessed 2023-04-10)
<i>Information source</i>	<i>Title</i>	Korea Geodetic Framework for Sustainable Development
	<i>Author</i>	J.-H. Kwon
	<i>Publisher</i>	United Nations Economic and Social Council
	<i>Publication date</i>	2012
	<i>Series/Journal name</i>	Nineteenth United Nations Regional Cartographic Conference for Asia and the Pacific, Bangkok, 29 October – 1 November 2012
	<i>Issue identification</i>	E/CONF.102/IP.17
	<i>Other citation details</i>	<a href="https://unstats.un.org/unsd/geoinfo/rcc/docs/rccap19/ip/E_Conf.102_IP17_Korea_19th_UNRCC-AP_Session3_26%20Oct.pdf">https://unstats.un.org/unsd/ geoinfo/rcc/docs/rccap19/ip/ E_Conf.102_IP17_Korea_19th_UNRCC- AP_Session3_26%20Oct.pdf</a> (accessed 2023-04-10)
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Replaced by KGD2002	
<i>Anchor definition</i>	Korean 1985 Datum is the first Korean Triangulation Network based on the Bessel 1841 ellipsoid. Approximately 7,000 points had been observed with EDM and TRANSIT since 1975, and adjusted through two campaigns by NGII. The origin of the datum was observed and determined by astronomical surveying over 4 years (1981 - 1985).	
<i>Release date</i>	1985.0	
<i>Scope</i>	Spatial referencing	
<i>Ellipsoid</i>	Bessel 1841	
<i>Prime Meridian</i>	Greenwich	

## Extent

<i>Description</i>	<b>Republic of Korea - onshore and offshore</b>
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# ISO Geodetic Registry

<i>Item class</i>	Ellipsoid
<i>Name</i>	<b>Bessel 1841</b>
<i>Item status</i>	VALID
<i>Identifier</i>	996
<i>Alias</i>	Bessel
<i>Information source</i>	<p><i>Title</i> The Universal Grids and the Transverse Mercator and Polar Stereographic Map Projections</p> <p><i>Author</i> National Geospatial-Intelligence Agency</p> <p><i>Publisher</i> Office of Geomatics, National Geospatial-Intelligence Agency</p> <p><i>Revision date</i> 2014-03-25</p> <p><i>Edition</i> Version 2.0.0</p> <p><i>Series/Journal name</i> National Geospatial-Intelligence Agency Standardization Document</p> <p><i>Issue identification</i> NGA.SIG.0012_2.0.0_UTMUPS</p>
<i>Information source</i>	<p><i>Title</i> Ueber einen Fehler in der Berechnung der französischen Gradmessung und seinen Einfluss auf die Bestimmung der Figur der Erde</p> <p><i>Author</i> F.W. Bessel</p> <p><i>Publication date</i> 1841-12-01</p> <p><i>Series/Journal name</i> Astronomische Nachrichten (Astronomical Notes)</p> <p><i>Issue identification</i> Volumes 19, Issue 7-8, No. 438</p> <p><i>Page</i> 97-116</p> <p><i>Other citation details</i> <a href="https://doi.org/10.1002/asna.18420190702">https://doi.org/10.1002/asna.18420190702</a> (accessed 2023-04-10)</p>
<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	The Bessel ellipsoid was derived in 1841 by Friedrich Wilhelm Bessel, based on several meridian arcs and other data of continental geodetic networks of Europe, Russia and the British Survey of India. It is based on 10 meridional arcs and 38 precise measurements of astrogeodetic latitude and longitude. The dimensions of the ellipsoid axes were defined by logarithms in keeping with former calculation methods. The original axes were defined as $a=3272077.14$ and $b=3261139.33$ toise. This was based a weighted mean of values from several authors but did not account for differences in the length of the various toise. The "Bessel toise" is therefore of uncertain length.
<i>Semi-major axis</i>	6377397.155 m
<i>Inverse flattening</i>	299.1528128 m

# ISO Geodetic Registry

<i>Item class</i>	PrimeMeridian	
<i>Name</i>	<b>Greenwich</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	25	
<i>Alias</i>	Zero meridian	
<i>Information source</i>	<i>Title</i>	Why the Greenwich meridian moved
	<i>Author</i>	S. Malys, J.H. Seago, N.K. Pavlis, P.K. Seidelmann, G.H. Kaplan
	<i>Publisher</i>	Springer International Publishing
	<i>Publication date</i>	2015-12
	<i>Series/Journal name</i>	Journal of Geodesy
	<i>Issue identification</i>	Volume 89, No. 12
	<i>Page</i>	1263–1272
<i>Information source</i>	<i>Title</i>	IERS Conventions (2010)
	<i>Author</i>	G. Petit, B.J. Luzum (eds)
	<i>Publisher</i>	Verlag des Bundesamts fur Kartographie und Geodasie
	<i>Publication date</i>	2010
	<i>Edition date</i>	
	<i>Series/Journal name</i>	IERS Technical Notes
	<i>Issue identification</i>	36.0
<i>Data source</i>	<i>Other citation details</i>	ISSN: 1019-4568
	ISO Geodetic Registry	
<i>Greenwich longitude</i>	0.0 °	

# ISO Geodetic Registry

<i>Item class</i>	EllipsoidalCS	
<i>Name</i>	<b>Ellipsoidal 2D CS. Axes: latitude, longitude. Orientations: north, east. UoM: degree</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	43	
<i>Information source</i>	<i>Title</i>	ISO 19111 Geographical information - Spatial referencing by coordinates
	<i>Author</i>	International Organization for Standardization (ISO)
	<i>Publisher</i>	International Organization for Standardization (ISO)
	<i>Publication date</i>	2007-07-01
	<i>Edition</i>	Second Edition
	<i>Series/Journal name</i>	International Standard
	<i>Issue identification</i>	ISO 19111:2007
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Used in geographic 2D coordinate reference systems. Coordinates referenced to this CS are in degrees. Any degree representation (e.g. DMSH, decimal, etc.) may be used but that used must be declared for the user by the supplier of data.	

## Axes

<i>Item class</i>	CoordinateSystemAxis	
<i>Name</i>	<b>Geodetic latitude</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	38	
<i>Information source</i>	<i>Title</i>	ISO 19111 Geographical information - Spatial referencing by coordinates
	<i>Author</i>	International Organization for Standardization (ISO)
	<i>Publisher</i>	International Organization for Standardization (ISO)
	<i>Publication date</i>	2007-07-01
	<i>Edition</i>	Second Edition
	<i>Series/Journal name</i>	International Standard
	<i>Issue identification</i>	ISO 19111:2007
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Used in geographic 2D and geographic 3D coordinate reference systems.	
<i>Abbreviation</i>	Lat	
<i>Direction</i>	north	
<i>Unit</i>	degree (supplier to define representation)	

<i>Item class</i>	CoordinateSystemAxis	
<i>Name</i>	<b>Geodetic longitude</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	34	
<i>Information source</i>	<i>Title</i>	ISO 19111 Geographical information - Spatial referencing by coordinates
	<i>Author</i>	International Organization for Standardization (ISO)

	<i>Publisher</i>	International Organization for Standardization (ISO)
	<i>Publication date</i>	2007-07-01
	<i>Edition</i>	Second Edition
	<i>Series/Journal name</i>	International Standard
	<i>Issue identification</i>	ISO 19111:2007
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Used in geographic 2D and geographic 3D coordinate reference systems.	
<i>Abbreviation</i>	Lon	
<i>Direction</i>	east	
<i>Unit</i>	degree (supplier to define representation)	