

# 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	<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)	
	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. <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)	
	Title	Grids & Datums: The Republic of Korea	
	Author	C.J. Mugnier	
	Publisher	American Society for Photogrammetry and Remote Sensing	
	Publication date	2017	
Information source	Series/Journal name	Photogrammetric Engineering & Remote Sensing	
	Issue identification	Volume 83, No. 8, August 2017	
	Page	537-539	
	Other citation details	<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)	
	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>
--------------------	---

# 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>
--------------------	---

# ISO Geodetic Registry

Item class	Ellipsoid	
Name	Bessel 1841	
Item status	VALID	
Identifier	996	
Alias	Bessel	
Information source	Title	The Universal Grids and the Transverse Mercator and Polar Stereographic Map Projections
	Author	National Geospatial-Intelligence Agency
	Publisher	Office of Geomatics, National Geospatial-Intelligence Agency
	Revision date	2014-03-25
	Edition	Version 2.0.0
	Series/Journal name	National Geospatial-Intelligence Agency Standardization Document
	Issue identification	NGA.SIG.0012_2.0.0_UTMUPS
Information source	Title	Ueber einen Fehler in der Berechnung der französischen Gradmessung und seinen Einfluss auf die Bestimmung der Figur der Erde
	Author	F.W. Bessel
	Publication date	1841-12-01
	Series/Journal name	Astronomische Nachrichten (Astronomical Notes)
	Issue identification	Volumes 19, Issue 7-8, No. 438
	Page	97-116
	Other citation details	https://doi.org/10.1002/asna.18420190702 (accessed 2023-04-10)
Data source	ISO Geodetic Registry	
Remarks	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.	
Semi-major axis	6377397.155 m	
Inverse flattening	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 für Kartographie und Geodäsie
	<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)	