

# ISO Geodetic Registry

<i>Item class</i>	GeodeticDatum	
<i>Name</i>	<b>Korean Geodetic Datum 2002</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	1006	
<i>Alias</i>	KGD2002	
<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>Title</i>	Implementation of the New Korean Geocentric Datum and GPS CORS Management
	<i>Author</i>	Y.-J. Lee, H.-K. Lee, C.-O. Kwon, J.-H. Song
<i>Information source</i>	<i>Publisher</i>	International Federation of Surveyors (FIG)
	<i>Publication date</i>	2008
	<i>Series/Journal name</i>	FIG Working Week 2008, Stockholm, Sweden, 14-19 June 2008
	<i>Other citation details</i>	<a href="https://www.fig.net/resources/proceedings/fig_proceedings/fig2008">https://www.fig.net/resources/proceedings/fig_proceedings/fig2008</a> (accessed 2023-04-10)
	<i>Title</i>	World Geodetic System Technical Guidelines
	<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>	2004-12
	<i>Other citation details</i>	Web page in Korean, accessible only within Korea. <a href="https://www.ngii.go.kr/kor/contents/view.do?sq=119&amp;board_code=contents_data/">https://www.ngii.go.kr/kor/contents/view.do?sq=119&amp;board_code=contents_data/</a> (accessed 2023-06-26)
	<i>Title</i>	Korea Geodetic Framework for Sustainable Development
<i>Information source</i>	<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>	Replaces Korean 1985 Datum.
	<i>Anchor definition</i>	KGD2002 is a GRS80-based geodetic reference frame aligned to ITRF2000 at epoch 2002.0. The origin of the datum was recalculated based on the VLBI observations from 1995 to 2002. The datum is realized through 60 CORS and a network of about 20,000 control points.
	<i>Release date</i>	2001-03-19

<i>Coordinate Reference Epoch</i>	2002.0
<i>Scope</i>	Spatial referencing
<i>Ellipsoid</i>	GRS 1980
<i>Prime Meridian</i>	Greenwich

## Extent

<i>Description</i>	<b>Republic of Korea - onshore and offshore</b>
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<i>Item class</i>	Ellipsoid														
<i>Name</i>	<b>GRS 1980</b>														
<i>Item status</i>	VALID														
<i>Identifier</i>	27														
<i>Alias</i>	Geodetic Reference System 1980														
<i>Alias</i>	GRS1980														
<i>Alias</i>	IAG GRS80														
<i>Alias</i>	International 1979														
<i>Alias</i>	GRS80														
<i>Information source</i>	<table> <tr> <td><i>Title</i></td><td>Geodetic Reference System 1980</td></tr> <tr> <td><i>Author</i></td><td>H. Moritz</td></tr> <tr> <td><i>Publisher</i></td><td>Springer International Publishing</td></tr> <tr> <td><i>Publication date</i></td><td>2003-03</td></tr> <tr> <td><i>Series/Journal name</i></td><td>Journal of Geodesy</td></tr> <tr> <td><i>Issue identification</i></td><td>Volume 74, No. 1</td></tr> <tr> <td><i>Page</i></td><td>128–162</td></tr> </table>	<i>Title</i>	Geodetic Reference System 1980	<i>Author</i>	H. Moritz	<i>Publisher</i>	Springer International Publishing	<i>Publication date</i>	2003-03	<i>Series/Journal name</i>	Journal of Geodesy	<i>Issue identification</i>	Volume 74, No. 1	<i>Page</i>	128–162
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<i>Author</i>	H. Moritz														
<i>Publisher</i>	Springer International Publishing														
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<i>Author</i>	H. Moritz														
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<i>Series/Journal name</i>	Bulletin Geodesique														
<i>Issue identification</i>	Volume 58, No. 3														
<i>Page</i>	395-405														
<i>Data source</i>	ISO Geodetic Registry														
<i>Remarks</i>	Adopted by IUGG 1979 Canberra. Inverse flattening is derived from geocentric gravitational constant $GM = 3986005e8 \text{ m}^3/\text{s}^2$ , dynamic form factor $J_2 = 108263e-8$ and Earth's angular velocity = $7292115e-11 \text{ rad/s}$ .														
<i>Semi-major axis</i>	6378137.0 m														
<i>Inverse flattening</i>	298.257222101 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 °	