Item class GeodeticCRS

Name KGD2002 - LatLonEHt

Item statusVALIDIdentifier1007AliasKGD2002

Alias Korean Geodetic Datum 2002

Information source Title Implementation of the New Korean Geocentric

Datum and GPS CORS Management

Author Y.-J. Lee, H.-K. Lee, C.-O. Kwon, J.-H. Song Publisher International Federation of Surveyors (FIG)

Publication date 2008

Series/Journal name FIG Working Week 2008, Stockholm, Sweden,

14-19 June 2008

Other citation details https://www.fig.net/resources/proceedings/

fig_proceedings/fig2008 (accessed 2023-04-10)

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)

Information source Title World Geodetic System Technical Guidelines

Author Geodesy Department, NGII

Publisher National Geographic Information Institute (NGII),

Ministry of Construction and Transportation,

Republic of Korea

Revision date 2004-12

Other citation details Web page in Korean, accessible only within

Korea. https://www.ngii.go.kr/kor/contents/view.do?sq=119&board_code=contents_data/

(accessed 2023-06-26)

Information source 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 Geodetic Datum 2002

Coordinate System Ellipsoidal 3D CS. Axes: latitude, longitude, ellipsoidal height.

Orientations: north, east, up. UoM: degree, degree, metre.

Extent

Description	Republic of Korea - onshore and offshore

Item class GeodeticDatum

Name Korean Geodetic Datum 2002

Item statusVALIDIdentifier1006AliasKGD2002

Information source 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)

Information source Title Implementation of the New Korean Geocentric

Datum and GPS CORS Management

Author Y.-J. Lee, H.-K. Lee, C.-O. Kwon, J.-H. Song Publisher International Federation of Surveyors (FIG)

Publication date 2008

Series/Journal name FIG Working Week 2008, Stockholm, Sweden,

14-19 June 2008

Other citation details https://www.fig.net/resources/proceedings/

fig_proceedings/fig2008 (accessed 2023-04-10)

Information source Title World Geodetic System Technical Guidelines

Author Geodesy Department, NGII

Publisher National Geographic Information Institute (NGII),

Ministry of Construction and Transportation,

Republic of Korea

Revision date 2004-12

Other citation details Web page in Korean, accessible only within

Korea. https://www.ngii.go.kr/kor/contents/view.do?sq=119&board_code=contents_data/

(accessed 2023-06-26)

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)

Data source ISO Geodetic Registry

Remarks Replaces Korean 1985 Datum.

Anchor definition 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.

Release date 2001-03-19

Coordinate Reference Epoch 2002.0

Scope Spatial referencing

Ellipsoid GRS 1980
Prime Meridian Greenwich

Extent

Description Republic of Korea - onshore and offshore

Item class Ellipsoid

Name GRS 1980

Item statusVALIDIdentifier27

Alias Geodetic Reference System 1980

Alias GRS1980
Alias IAG GRS80

Alias International 1979

Alias GRS80

Information source Title Geodetic Reference System 1980

Author H. Moritz

Publisher Springer International Publishing

Publication date 2003-03

Series/Journal name Journal of Geodesy Issue identification Volume 74, No. 1

Page 128–162

Information source Title Geodetic Reference System 1980

Author H. Moritz

Publisher International Association of Geodesy

Publication date 1984

Series/Journal name Bulletin Geodesique Issue identification Volume 58, No. 3

Page 395-405

Data source ISO Geodetic Registry

Remarks Adopted by IUGG 1979 Canberra. Inverse flattening is derived from

geocentric gravitational constant GM = 3986005e8 m*m*m/s/s, dynamic form factor J2 = 108263e-8 and Earth's angular velocity =

7292115e-11 rad/s.

Semi-major axis 6378137.0 m
Inverse flattening 298.257222101 m

Item class PrimeMeridian

Name Greenwich

Item status VALID
Identifier 25

Alias Zero meridian

Information source Title Why the Greenwich meridian moved

Author S. Malys, J.H. Seago, N.K. Pavlis, P.K.

Seidelmann, G.H. Kaplan

Publisher Springer International Publishing

Publication date 2015-12

Series/Journal name Journal of Geodesy Issue identification Volume 89, No. 12

Page 1263–1272

Information source Title IERS Conventions (2010)

Author G. Petit, B.J. Luzum (eds)

Publisher Verlag des Bundesamts fur Kartographie und

Geodasie

Publication date 2010

Edition date

Series/Journal name IERS Technical Notes

Issue identification 36.0

Other citation details ISSN: 1019-4568

Data source ISO Geodetic Registry

Greenwich longitude 0.0 °

Item class EllipsoidalCS

Name Ellipsoidal 3D CS. Axes: latitude, longitude,

ellipsoidal height. Orientations: north, east, up.

UoM: degree, degree, metre.

Item status VALID
Identifier 46

Information source Title ISO 19111 Geographical information - Spatial

referencing by coordinates

Author International Organization for Standardization

(ISO)

Publisher International Organization for Standardization

(ISO)

Publication date 2007-07-01

Edition Second Edition

Series/Journal name International Standard

Issue identification ISO 19111:2007

Data source ISO Geodetic Registry

Remarks Used in geographic 3D coordinate reference systems. Horizontal

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.

Axes

Item class CoordinateSystemAxis

Name Geodetic latitude

Item statusVALIDIdentifier38

Information source Title ISO 19111 Geographical information - Spatial

referencing by coordinates

Author International Organization for Standardization

(ISO)

Publisher International Organization for Standardization

(ISO)

Publication date 2007-07-01

Edition Second Edition

Series/Journal name International Standard

Issue identification ISO 19111:2007

Data source ISO Geodetic Registry

Remarks Used in geographic 2D and geographic 3D coordinate reference

systems.

Abbreviation Lat
Direction north

Unit degree (supplier to define representation)

Item class CoordinateSystemAxis

Name Geodetic longitude

Item status VALID
Identifier 34

Information source Title ISO 19111 Geographical information - Spatial

referencing by coordinates

Author International Organization for Standardization

(ISO)

Publisher International Organization for Standardization

(ISO)

Publication date 2007-07-01

Edition Second Edition

Series/Journal name International Standard

Issue identification ISO 19111:2007

Data source ISO Geodetic Registry

Remarks Used in geographic 2D and geographic 3D coordinate reference

systems.

Abbreviation Lon
Direction east

Unit degree (supplier to define representation)

Item class CoordinateSystemAxis

Name Ellipsoidal height

Item statusVALIDIdentifier36

Information source Title ISO 19111 Geographical information - Spatial

referencing by coordinates

Author International Organization for Standardization

(ISO)

Publisher International Organization for Standardization

(ISO)

Publication date 2007-07-01

Edition Second Edition

Series/Journal name International Standard

Issue identification ISO 19111:2007

Data source ISO Geodetic Registry

Remarks Used only as part of an ellipsoidal 3D coordinate system in a

geographic 3D coordinate reference system, never on its own.

Abbreviation h
Direction up

Unit metre