

# ISO Geodetic Registry

<i>Item class</i>	Transformation	
<i>Name</i>	<b>KGD2002 to KVD1964 [NGII v2]</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	1013	
<i>Alias</i>	KNGeoid18	
<i>Information source</i>	<i>Title</i>	National Geographic Information Institute Geoid model
	<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>	2019-01
	<i>Other citation details</i>	Web page in Korean, accessible only within Korea. <a href="https://map.ngii.go.kr/ms/mesrInfo/geoidIntro.do">https://map.ngii.go.kr/ms/mesrInfo/geoidIntro.do</a> (accessed 2023-06-01)
<i>Information source</i>	<i>Title</i>	Definition of Vertical Datum
	<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="http://map.ngii.go.kr/ms/mesrInfo/vertclStdOpenLctre.do#tab_3">http://map.ngii.go.kr/ms/mesrInfo/vertclStdOpenLctre.do#tab_3</a> (accessed 2023-06-01)
<i>Information source</i>	<i>Title</i>	Review the status of Korean geoid model development since 2000s and future improvement plan
	<i>Author</i>	J. Lee, J.-H. Kwon
	<i>Publisher</i>	The Chinese Geoscience Union
	<i>Publication date</i>	2022
	<i>Series/Journal name</i>	Terrestrial, Atmospheric and Oceanic Sciences
	<i>Issue identification</i>	Volume 33, Article Number 12
	<i>Other citation details</i>	<a href="https://doi.org/10.1007/s44195-022-00013-3">https://doi.org/10.1007/s44195-022-00013-3</a> (accessed 2023-04-10)
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Height conversion from KGD2002 GRS80 ellipsoidal height to KVD1964 normal orthometric height.	
<i>Operation version</i>	NGII v2	
<i>Scope</i>	Spatial referencing	
<i>Operation accuracy</i>	0.024 m	
<i>Source CRS</i>	KGD2002 - LatLonEHt	
<i>Target CRS</i>	KVD1964 - NOHt	
<i>Operation method</i>	Geographic3D to Gravity Related Height (KNGeoid18)	

## Extent

<i>Description</i>	<b>Republic of Korea - onshore</b>
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## Operation parameter values

<i>Geoid (height correction) model file</i>	KNGeoid18.gri
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# ISO Geodetic Registry

<i>Item class</i>	OperationMethod
<i>Name</i>	<b>Geographic3D to Gravity Related Height (KNGeoid18)</b>
<i>Item status</i>	VALID
<i>Identifier</i>	1003
<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	A vertical transformation model between KGD2002 ellipsoid height and KVD1964 normal orthometric height. This transformation model uses the updated hybrid geoid model KNGeoid18 with a higher precision and wider coverage of the territory of the Republic of Korea than KNGeoid14. This model provides separation values on a regular grid of latitude and longitude intersection points. Replaces KNGeoid14.

## Operation parameters

*Geoid (height correction) model file*