ISO Geodetic Registry

Item class	Transformation	
Name	**KGD2002 to KVD1964 [NGII v2]**	
Item status	VALID	
Identifier	1013	
Alias	KNGeoid18	
Information source	*Title*	National Geographic Information Institute Geoid model
	Author	Geodesy Department, NGII
	Publisher	National Geographic Information Institute (NGII), Ministry of Construction and Transportation, Republic of Korea
	Revision date	2019-01
	Other citation details	Web page in Korean, accessible only within Korea. https://map.ngii.go.kr/ms/mesrInfo/geoidIntro.do (accessed 2023-06-01)
Information source	*Title*	Definition of Vertical Datum
	Author	Geodesy Department, NGII
	Publisher	National Geographic Information Institute (NGII), Ministry of Construction and Transportation, Republic of Korea
	Revision date	2018-05
	Other citation details	Web page in Korean, accessible only within Korea. http://map.ngii.go.kr/ms/mesrInfo/vertclStdrOpenLctre.do#tab_3 (accessed 2023-06-01)
Information source	*Title*	Review the status of Korean geoid model development since 2000s and future improvement plan
	Author	J. Lee, J.-H. Kwon
	Publisher	The Chinese Geoscience Union
	Publication date	2022
	Series/Journal name	Terrestrial, Atmospheric and Oceanic Sciences
	Issue identification	Volume 33, Article Number 12
	Other citation details	https://doi.org/10.1007/s44195-022-00013-3 (accessed 2023-04-10)
Data source	ISO Geodetic Registry	
Remarks	Height conversion from KGD2002 GRS80 ellipsoidal height to KVD1964 normal orthometric height.	
Operation version	NGII v2	
Scope	Spatial referencing	
Operation accuracy	0.024 m	
Source CRS	KGD2002 - LatLonEHt	
Target CRS	KVD1964 - NOHt	
Operation method	Geographic3D to Gravity Related Height (KNGeoid18)	

Extent

Description	**Republic of Korea - onshore**

Operation parameter values

Geoid (height correction) model file	KNGeoid18.gri

ISO Geodetic Registry

Item class	OperationMethod
Name	**Geographic3D to Gravity Related Height (KNGeoid18)**
Item status	VALID
Identifier	1003
Data source	ISO Geodetic Registry
Remarks	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