ISO Geodetic Registry

Item class Transformation

Name KGD2002 to KVD1964 [NGII v1]

Item status VALID
Identifier 1014

Alias KNGeoid14

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 v1

Scope Spatial referencing

Operation accuracy 0.035 m

Source CRS KGD2002 - LatLonEHt
Target CRS KVD1964 - NOHt

Operation method Geographic3D to Gravity Related Height (KNGeoid14)

Extent

Description Republic of Korea - onshore

Operation parameter values

Geoid (height correction) model file KNGeoid14.gri

ISO Geodetic Registry

Item class OperationMethod

Name Geographic3D to Gravity Related Height

(KNGeoid14)

Item status VALID
Identifier 1001

Data source ISO Geodetic Registry

Remarks A vertical transformation model between KGD2002 ellipsoid height

and KVD1964 normal orthometric height. This transformation model is a hybrid geoid model covering the territory of the Republic of Korea. This model provides separation values on a regular grid of latitude and

longitude intersection points. Replaced by KNGeoid18.

Operation parameters

Geoid (height correction) model file