ISO Geodetic Registry

Item class Transformation

Name WGS 84 (G1762) to WGS 84 EGM2008 - OHt [3]

Item status VALID
Identifier 671

Information source Title Department of Defense World Geodetic System

1984: Its Definition and Relationships with Local

Geodetic Systems, Version 1.0.0

Author National Geospatial-Intelligence Agency
Publisher National Geospatial-Intelligence Agency

Publication date 2014-07-08

Series/Journal name Standardization Document
Issue identification NGA.STND.0036_1.0.0_WGS84

Information source Title The development and evaluation of the Earth

Gravitational Model 2008 (EGM2008)

Author N.K. Pavlis, S. A. Holmes, S. C. Kenyon, J. K.

Factor

Publisher American Geophysical Union

Publication date 2012-04-19 Edition date 2012-04-19

Series/Journal name Journal of Geophysical Research: Solid Earth

Issue identification Volume 117, Issue B4

Information source Title Correction to "The Development and Evaluation

of the Earth Gravitational Model 2008

(EGM2008)"

Author N.K. Pavlis, S. A. Holmes, S. C. Kenyon, J. K.

Factor

Publisher American Geophysical Union

Publication date 2013-05-09 Edition date 2013-05-09

Series/Journal name Journal of Geophysical Research: Solid Earth

Issue identification Volume 118, Issue 5

Page 2633.0

Data source ISO Geodetic Registry

Remarks Transformation from WGS 84 (G1762) ellipsoidal heights to EGM2008

orthometric heights using the EGM2008 geoid model defind by spherical harmonic coeffcients and corrections using harmonic

synthesis.

Operation version 2.0

Scope Spatial referencing

Operation accuracy 0.5 m

Source CRS WGS 84 (G1762) - LatLonEHt
Target CRS WGS 84 EGM2008 - OHt

Operation method Geographic3D to Gravity Related Height (EGM96-SH)

Extent

Description	World.	
Geographic Bounding Box	West-bound longitude	-180.0
	North-bound latitude	90.0
	East-bound longitude	180.0
	South-bound latitude	-90.0

Operation parameter values

Spherical harmonic coefficient file	EGM2008_to2190_TideFree.gz
Spherical harmonic correction coefficients file	Zeta-to-N_to2160_egm2008.gz

ISO Geodetic Registry

Item class OperationMethod

Name Geographic3D to Gravity Related Height

(EGM96-SH)

Item status VALID
Identifier 80

Data source ISO Geodetic Registry

Remarks Spherical harmonic representation of EGM96 geoid using both

a spherical harmonic coefficients file and a spherical harmonic

coefficients correction file.

Operation parameters

Spherical harmonic coefficient file

Spherical harmonic correction coefficients file