ISO Geodetic Registry

Item class Transformation

Name WGS 84 (G1150) to WGS 84 EGM96 - OHt [2]

Item statusVALIDIdentifier473

Information source Title The Development of the Joint NASA GSFC and

the NIMA Geopotential Model EGM96

Author F.G. Lemoine, S. C. Kenyon, J. K. Factor, R.G.

Trimmer, N. K. Pavlis, D. S. Chinn, C. M. Cox, S. M. Klosko, S. B. Luthcke, M. H. Torrence, Y. M. Wang, R. G. Williamson, E. C. Pavlis, R. H. Rapp,

T. R. Olson,

Publisher National Aeronautics and Space Administration

Publication date 1998-07

Edition date

Series/Journal name Technical Paper

Issue identification NASA/TP-1998-206861

Information source Title A Refinement to the World Geodetic System 1984

Reference Frame

Author M. J. Merrigan, E.R. Swift, R.F. Wong, Saffel J.T.

Publisher Institute of Navigation

Publication date 2002-09

Edition date

Series/Journal name Proceedings of the 15th International Technical

Meeting of the Satellite Division of The Institue of Navigation (ION-GPS-2002), Portland, OR,

September 2002

Page 1519-1529

Data source ISO Geodetic Registry

Remarks Transformation from WGS 84 (G1150) ellipsoidal heights to EGM96

orthometric heights using the EGM96 geoid model defind by spherical

harmonic coeffcients and corrections using harmonic synthesis.

Operation version 2.0

Scope Spatial referencing

Operation accuracy 1.0 m

Source CRS WGS 84 (G1150) - LatLonEHt

Target CRS WGS 84 EGM96 - 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 egm96.exe
Spherical harmonic correction coefficients file CORRCOEF.EXE

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