

ISO Geodetic Registry

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|---------------------------|--|---|
| <i>Item class</i> | Transformation | |
| <i>Name</i> | WGS 84 (G1762) to WGS 84 EGM2008 - OHt [3] | |
| <i>Item status</i> | VALID | |
| <i>Identifier</i> | 671 | |
| <i>Information source</i> | <i>Title</i> | Department of Defense World Geodetic System 1984: Its Definition and Relationships with Local Geodetic Systems, Version 1.0.0 |
| | <i>Author</i> | National Geospatial-Intelligence Agency |
| | <i>Publisher</i> | National Geospatial-Intelligence Agency |
| | <i>Publication date</i> | 2014-07-08 |
| | <i>Series/Journal name</i> | Standardization Document |
| <i>Information source</i> | <i>Issue identification</i> | NGA.STND.0036_1.0.0_WGS84 |
| | <i>Title</i> | The development and evaluation of the Earth Gravitational Model 2008 (EGM2008) |
| | <i>Author</i> | N.K. Pavlis, S. A. Holmes, S. C. Kenyon, J. K. Factor |
| | <i>Publisher</i> | American Geophysical Union |
| | <i>Publication date</i> | 2012-04-19 |
| <i>Information source</i> | <i>Edition date</i> | 2012-04-19 |
| | <i>Series/Journal name</i> | Journal of Geophysical Research: Solid Earth |
| | <i>Issue identification</i> | Volume 117, Issue B4 |
| | <i>Title</i> | Correction to "The Development and Evaluation of the Earth Gravitational Model 2008 (EGM2008)" |
| | <i>Author</i> | N.K. Pavlis, S. A. Holmes, S. C. Kenyon, J. K. Factor |
| <i>Information source</i> | <i>Publisher</i> | American Geophysical Union |
| | <i>Publication date</i> | 2013-05-09 |
| | <i>Edition date</i> | 2013-05-09 |
| | <i>Series/Journal name</i> | Journal of Geophysical Research: Solid Earth |
| | <i>Issue identification</i> | Volume 118, Issue 5 |
| <i>Data source</i> | <i>Page</i> | 2633.0 |
| | <i>ISO Geodetic Registry</i> | |
| <i>Remarks</i> | Transformation from WGS 84 (G1762) ellipsoidal heights to EGM2008 orthometric heights using the EGM2008 geoid model defined by spherical harmonic coefficients and corrections using harmonic synthesis. | |
| <i>Operation version</i> | 2.0 | |
| <i>Scope</i> | Spatial referencing | |
| <i>Operation accuracy</i> | 0.5 m | |
| <i>Source CRS</i> | WGS 84 (G1762) - LatLonEHt | |
| <i>Target CRS</i> | WGS 84 EGM2008 - OHt | |
| <i>Operation method</i> | Geographic3D to Gravity Related Height (EGM96-SH) | |

Extent

| | | |
|--------------------------------|-----------------------------|--------|
| <i>Description</i> | World. | |
| <i>Geographic Bounding Box</i> | <i>West-bound longitude</i> | -180.0 |
| | <i>North-bound latitude</i> | 90.0 |
| | <i>East-bound longitude</i> | 180.0 |
| | <i>South-bound latitude</i> | -90.0 |

Operation parameter values

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|--|-----------------------------|
| <i>Spherical harmonic coefficient file</i> | EGM2008_to2190_TideFree.gz |
| <i>Spherical harmonic correction coefficients file</i> | Zeta-to-N_to2160_egm2008.gz |

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| <i>Item class</i> | OperationMethod |
| <i>Name</i> | Geographic3D to Gravity Related Height (EGM96-SH) |
| <i>Item status</i> | VALID |
| <i>Identifier</i> | 80 |
| <i>Data source</i> | ISO Geodetic Registry |
| <i>Remarks</i> | Spherical harmonic representaiton of EGM96 geoid using both a spherical harmonic coefficients file and a spherical harmonic coefficients correction file. |

Operation parameters

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|--|
| <i>Spherical harmonic coefficient file</i> |
| <i>Spherical harmonic correction coefficients file</i> |