

# ISO Geodetic Registry

|                           |  |   |
|---------------------------|--|---|
| <i>Item class</i>         | Transformation   |   |
| <i>Name</i>               | <b>WGS 84 (G1674) to WGS 84 EGM96 - OHt [2]</b>  |   |
| <i>Item status</i>        | VALID  |   |
| <i>Identifier</i>         | 573  |   |
| <i>Information source</i> | <i>Title</i>   | The Development of the Joint NASA GSFC and the NIMA Geopotential Model EGM96  |
|                           | <i>Author</i>  | 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, |
|                           | <i>Publisher</i>   | National Aeronautics and Space Administration   |
|                           | <i>Publication date</i>  | 1998-07   |
|                           | <i>Edition date</i>  |   |
|                           | <i>Series/Journal name</i>   | Technical Paper   |
| <i>Information source</i> | <i>Issue identification</i>  | NASA/TP-1998-206861   |
|                           | <i>Title</i>   | Recent Updates to the WGS 84 Reference Frame  |
|                           | <i>Author</i>  | R.F. Wong, C.M. Rollins, C.F. Minter  |
|                           | <i>Publisher</i>   | Institute of Navigation   |
|                           | <i>Publication date</i>  | 2012-09   |
|                           | <i>Edition date</i>  |   |
| <i>Information source</i> | <i>Series/Journal name</i>   | Proceedings of the 25th International Technical Meeting of the Satellite Division of The Institute of Navigation (ION-GNSS-2012), Nashville, TN, September 2012   |
|                           | <i>Page</i>  | 1164-1172   |
|                           | <i>Title</i>   | NGA/NASA EGM96,N=M=360 Earth Gravitational Model  |
|                           | <i>Author</i>  | NGA Office of Geomatics   |
|                           | <i>Publisher</i>   | National Geospatial-Intelligence Agency   |
|                           | <i>Revision date</i>   | 2014-10-24  |
| <i>Data source</i>        | <i>Edition date</i>  |   |
|                           |  | ISO Geodetic Registry   |
| <i>Remarks</i>            | Transformation from WGS 84 (G1674) ellipsoidal heights to EGM96 orthometric heights using the EGM96 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> | 1.0 m  |   |
| <i>Source CRS</i>         | WGS 84 (G1674) - LatLonEHt   |   |
| <i>Target CRS</i>         | WGS 84 EGM96 - OHt   |   |
| <i>Operation method</i>   | Geographic3D to Gravity Related Height (EGM96-SH)  |   |

## Extent

|                                |                             |        |
|--------------------------------|-----------------------------|--------|
| <i>Description</i>             | <b>World.</b>               |        |
| <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

|  |              |
|--|--------------|
| <i>Spherical harmonic coefficient file</i>             | egm96.exe    |
| <i>Spherical harmonic correction coefficients file</i> | CORRCOEF.EXE |

# ISO Geodetic Registry

|                    |   |
|--------------------|---|
| <i>Item class</i>  | OperationMethod   |
| <i>Name</i>        | <b>Geographic3D to Gravity Related Height (EGM96-SH)</b>  |
| <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

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