ISO Geodetic Registry

Item class Transformation

Name WGS 84 (G873) to WGS 84 EGM84 - OHt [2]

Item status VALID
Identifier 480

Information source Title The World Geodetic System 1984 Earth

Gravitational Model

Author H.L. White, Defense Mapping Agency Aerospace

Center

Publisher Defense Mapping Agency Aerospace Center

Publication date 1986-05-02

Edition date

Information source Title Refinements to The World Geodetic System 1984

Author S. Malys, J.A. Slater, R.W. Smith, L.E. Kunz, S.C.

Kenyon

Publisher Institute of Navigation

Publication date 1997-09

Edition date

Series/Journal name Proceedings of the 10th International Technical

Meeting of the Satellite Division of The Institue of Navigation (ION-GPS-1997), Kansas City, MO,

September 1997

Page 841-850

Information source Title Department of Defense World Geodetic System

1984: Its Definition and Relationships with Local

Geodetic Systems

Author National Imagery and Mapping Agency
Publisher National Imagery and Mapping Agency

Publication date 2004-06-23

Edition Third Edition, Amendment 2

Edition date 2004-06-23 Series/Journal name Technical Report Issue identification TR8350.2

Information source Title Department of Defense World Geodetic System

1984: Its Definition and Relationships with Local

Geodetic Systems

Author National Imagery and Mapping Agency Publisher National Imagery and Mapping Agency

Publication date 1997-07-04

Edition Third Edition

Edition date 1997-07-04

Series/Journal name Technical Report

Issue identification TR8350.2

Information source Title Department of Defense World Geodetic System

1984: Its Definition and Relationships with Local

Geodetic Systems

Author National Imagery and Mapping Agency
Publisher National Imagery and Mapping Agency

Publication date 2000-01-03

Edition Third Edition, Amendment 1

Edition date 2000-01-03 Series/Journal name Technical Report Issue identification TR8350.2

ISO Geodetic Registry

Data source

Remarks Transformation from WGS 84 (G873) ellipsoidal heights to EGM84

orthometric heights using the EGM84 geoid model defind by spherical

harmonic coeffcients.

Operation version 2.0

Scope Spatial referencing

Operation accuracy 1.0 m

Source CRS WGS 84 (G873) - LatLonEHt

Target CRS WGS 84 EGM84 - OHt

Operation method Geographic3D to Gravity Related Height (EGM84-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 | a mma 1 00 m a m | |
|--------------------------------------|------------------|--|
| 1Sonerical narmonic coefficient life | eam180.nor | |
| opinonical marmorile ecomologic me | 09 | |
| | | |

ISO Geodetic Registry

Item class OperationMethod

Name Geographic3D to Gravity Related Height

(EGM84-SH)

Item status VALID
Identifier 77

Data source ISO Geodetic Registry

Remarks Spherical harmonic representation of EGM84 geoid using a single

spherical harmonic coefficients file.

Operation parameters

Spherical harmonic coefficient file