

ISO Geodetic Registry

| | | |
|-----------------------------------|--|--|
| <i>Item class</i> | GeodeticDatum | |
| <i>Name</i> | North American Datum of 1983 (PACP00) | |
| <i>Item status</i> | VALID | |
| <i>Identifier</i> | 113 | |
| <i>Alias</i> | NAD83 (PACP00) | |
| <i>Information source</i> | <i>Title</i> | NGS No Longer Updates Published CORS Coordinates in the Following Reference Frames |
| | <i>Author</i> | National Geodetic Survey |
| | <i>Publisher</i> | National Oceanic and Atmospheric Administration (NOAA) National Geodetic Survey (NGS) |
| | <i>Revision date</i> | 2017-03-16 |
| | <i>Edition date</i> | 2017-03-16 |
| | <i>Series/Journal name</i> | NGS Online listing of transformation parameters |
| | <i>Other citation details</i> | webpage |
| <i>Information source</i> | <i>Title</i> | Introducing HTDP 3.1 to transform coordinates across time and spatial reference frames |
| | <i>Author</i> | C. Pearson, R.A. Snay |
| | <i>Publisher</i> | Springer-Verlag |
| | <i>Publication date</i> | 2013-01-01 |
| | <i>Edition date</i> | 2013-01-01 |
| | <i>Series/Journal name</i> | GPS Solutions |
| | <i>Issue identification</i> | Volume 17, No. 1 |
| | <i>Page</i> | 1-15 |
| | <i>Other citation details</i> | NAD83 (2011), NAD83 (MA11), NAD83 (PA11) transformation from IGB08 |
| | <i>Title</i> | Introducing Two Spatial Reference Frames for Regions of the Pacific Ocean |
| <i>Information source</i> | <i>Author</i> | R.A. Snay |
| | <i>Publisher</i> | American Congress on Surveying and Mapping |
| | <i>Publication date</i> | 2003-01-01 |
| | <i>Edition date</i> | 2003-01-01 |
| | <i>Series/Journal name</i> | Surveying and Land Information Systems |
| | <i>Issue identification</i> | Volume 63, No. 1 |
| | <i>Page</i> | 5-12 |
| <i>Information source</i> | <i>Other citation details</i> | MARP00, PACP00 |
| | <i>Title</i> | Introducing Two Spatial Reference Frames for Regions of the Pacific Ocean |
| <i>Data source</i> | ISO Geodetic Registry | |
| <i>Remarks</i> | Replaces NAD83 (HARN). Replaced by NAD83(PA11) from 2011-09-06. | |
| <i>Anchor definition</i> | Realization of the NAD83. The frame is defined by a time-dependent seven parameter transformation of ITRF2000 3D geocentric Cartesian coordinates and velocities at reference epoch 1993.62. The frame is kept aligned to the Pacific plate at other epochs based on an Euler pole calculated from 16 sites located on the North American, Mariana, and Pacific plates. The original web listing erroneously showed values for this frame as being identical to NAD83 (CORS96) Epoch 2002. However, the original HTDP (version 2.7) implementation used the transformation given in the reference. | |
| <i>Release date</i> | 2003 | |
| <i>Coordinate Reference Epoch</i> | 1993.6 | |
| <i>Scope</i> | Spatial referencing | |
| <i>Ellipsoid</i> | GRS 1980 | |
| <i>Prime Meridian</i> | Greenwich | |

Extent

| | | |
|--------------------------------|--|---------|
| <i>Description</i> | American Samoa - onshore and offshore. Marshall Islands - onshore and offshore. United States (USA) - onshore and offshore - Hawaii. United States Minor Outlying Islands - onshore and offshore. | |
| <i>Geographic Bounding Box</i> | <i>West-bound longitude</i> | 157.47 |
| | <i>North-bound latitude</i> | 31.8 |
| | <i>East-bound longitude</i> | -151.27 |
| | <i>South-bound latitude</i> | -17.56 |

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|-----------------------------|--|--------------|--------------------------------|---------------|-----------|------------------|--------------------------------------|-------------------------|---------|----------------------------|---------------------|-----------------------------|------------------|-------------|---------|
| <i>Item class</i> | Ellipsoid | | | | | | | | | | | | | | |
| <i>Name</i> | GRS 1980 | | | | | | | | | | | | | | |
| <i>Item status</i> | VALID | | | | | | | | | | | | | | |
| <i>Identifier</i> | 27 | | | | | | | | | | | | | | |
| <i>Alias</i> | Geodetic Reference System 1980 | | | | | | | | | | | | | | |
| <i>Alias</i> | GRS1980 | | | | | | | | | | | | | | |
| <i>Alias</i> | IAG GRS80 | | | | | | | | | | | | | | |
| <i>Alias</i> | International 1979 | | | | | | | | | | | | | | |
| <i>Alias</i> | GRS80 | | | | | | | | | | | | | | |
| <i>Information source</i> | <table> <tr> <td><i>Title</i></td><td>Geodetic Reference System 1980</td></tr> <tr> <td><i>Author</i></td><td>H. Moritz</td></tr> <tr> <td><i>Publisher</i></td><td>Springer International Publishing</td></tr> <tr> <td><i>Publication date</i></td><td>2003-03</td></tr> <tr> <td><i>Series/Journal name</i></td><td>Journal of Geodesy</td></tr> <tr> <td><i>Issue identification</i></td><td>Volume 74, No. 1</td></tr> <tr> <td><i>Page</i></td><td>128–162</td></tr> </table> | <i>Title</i> | Geodetic Reference System 1980 | <i>Author</i> | H. Moritz | <i>Publisher</i> | Springer International Publishing | <i>Publication date</i> | 2003-03 | <i>Series/Journal name</i> | Journal of Geodesy | <i>Issue identification</i> | Volume 74, No. 1 | <i>Page</i> | 128–162 |
| <i>Title</i> | Geodetic Reference System 1980 | | | | | | | | | | | | | | |
| <i>Author</i> | H. Moritz | | | | | | | | | | | | | | |
| <i>Publisher</i> | Springer International Publishing | | | | | | | | | | | | | | |
| <i>Publication date</i> | 2003-03 | | | | | | | | | | | | | | |
| <i>Series/Journal name</i> | Journal of Geodesy | | | | | | | | | | | | | | |
| <i>Issue identification</i> | Volume 74, No. 1 | | | | | | | | | | | | | | |
| <i>Page</i> | 128–162 | | | | | | | | | | | | | | |
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| <i>Title</i> | Geodetic Reference System 1980 | | | | | | | | | | | | | | |
| <i>Author</i> | H. Moritz | | | | | | | | | | | | | | |
| <i>Publisher</i> | International Association of Geodesy | | | | | | | | | | | | | | |
| <i>Publication date</i> | 1984 | | | | | | | | | | | | | | |
| <i>Series/Journal name</i> | Bulletin Geodesique | | | | | | | | | | | | | | |
| <i>Issue identification</i> | Volume 58, No. 3 | | | | | | | | | | | | | | |
| <i>Page</i> | 395-405 | | | | | | | | | | | | | | |
| <i>Data source</i> | ISO Geodetic Registry | | | | | | | | | | | | | | |
| <i>Remarks</i> | Adopted by IUGG 1979 Canberra. Inverse flattening is derived from geocentric gravitational constant $GM = 3986005e8 \text{ m}^3/\text{s}^2$, dynamic form factor $J_2 = 108263e-8$ and Earth's angular velocity = $7292115e-11 \text{ rad/s}$. | | | | | | | | | | | | | | |
| <i>Semi-major axis</i> | 6378137.0 m | | | | | | | | | | | | | | |
| <i>Inverse flattening</i> | 298.257222101 m | | | | | | | | | | | | | | |

ISO Geodetic Registry

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|----------------------------|-------------------------------|---|
| <i>Item class</i> | PrimeMeridian | |
| <i>Name</i> | Greenwich | |
| <i>Item status</i> | VALID | |
| <i>Identifier</i> | 25 | |
| <i>Alias</i> | Zero meridian | |
| <i>Information source</i> | <i>Title</i> | Why the Greenwich meridian moved |
| | <i>Author</i> | S. Malys, J.H. Seago, N.K. Pavlis, P.K. Seidelmann, G.H. Kaplan |
| | <i>Publisher</i> | Springer International Publishing |
| | <i>Publication date</i> | 2015-12 |
| | <i>Series/Journal name</i> | Journal of Geodesy |
| | <i>Issue identification</i> | Volume 89, No. 12 |
| | <i>Page</i> | 1263–1272 |
| <i>Information source</i> | <i>Title</i> | IERS Conventions (2010) |
| | <i>Author</i> | G. Petit, B.J. Luzum (eds) |
| | <i>Publisher</i> | Verlag des Bundesamts für Kartographie und Geodäsie |
| | <i>Publication date</i> | 2010 |
| | <i>Edition date</i> | |
| | <i>Series/Journal name</i> | IERS Technical Notes |
| | <i>Issue identification</i> | 36.0 |
| <i>Data source</i> | <i>Other citation details</i> | ISSN: 1019-4568 |
| | ISO Geodetic Registry | |
| <i>Greenwich longitude</i> | 0.0 ° | |