	ISO Geode	etic Registry		
Item class	GeodeticCRS	3 7		
Name		DOO) LottonEUt		
	•	NAD 83 (PACP00) - LatLonEHt		
Item status	VALID			
Identifier	455			
Information source	Title	Introducing Two Spatial Reference Frames for Regions of the Pacific Ocean		
	Author	R.A. Snay		
	Publisher	American Cobgress on Surveying and Mapping		
	Publication date Edition date	2003-01-01 2003-01-01		
		e Surveying and Land Information Systems		
	Issue identification			
	Page	5-12		
	•	s MARP00, PACP00		
Information source	Title	NADCON 5.0: Geometric Transformation Tool for		
		points in the National Spatial Reference System		
	Author	D. Smith, A. Bilich		
	Publisher	NOAA's National Geodetic Survey		
	Publication date			
	Edition date	2017-03-27		
		e NGS Technical Report		
	Other citation detail	s Replaces version 4.2 and all earlier. Provides		
		gridding algorithm, datum transformations, and		
Information source	Title	extents of covnversion grids. CORS Coordinates		
Illioithalion source	Author	National Geodetic Survey		
	Publisher	National Oceanic and Atmospheric Administration		
	r donorror	(NOAA) National Geodetic Survey (NGS)		
	Revision date	2017-05-16		
	Series/Journal nam	e NGS Online listing of transformation parameters		
		Other citation details webpage		
Information source	Title	Notice to Adopt Standard Method for Horizontal Datum Transformation		
	Author	US Government		
	Publisher	Office of Federal Register, NARA		
	Publication date	1990-08-10		
	Edition date	1990-08-10		
	Series/Journal nam Issue identification	e Federal Register Notice		
	Page	Volume 55, No. 155, Document: 00-18809 32681.0		
	_	s Mandates use of NADCON for official		
	Outer oldion detail	transformations between datums		
Data source	ISO Geodetic Regis	ISO Geodetic Registry		
Scope	Spatial referencing			
Datum	,	North American Datum of 1983 (PACP00)		
Coordinate System	Ellipsoidal 3D CS. A	Ellipsoidal 3D CS. Axes: latitude, longitude, ellipsoidal height. Orientations: north, east, up. UoM: degree, degree, metre.		

### Extent

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.

Geographic Bounding Box	West-bound longitude	157.47	
	North-bound latitude	31.8	
	East-bound longitude	-151.27	
	South-bound latitude	-17.56	

Item class GeodeticDatum

North American Datum of 1983 (PACP00)

Item status VALID Identifier 113

Alias NAD83 (PACP00)

Information source Title NGS No Longer Updates Published CORS

Coordinates in the Following Reference Frames

Author National Geodetic Survey

Publisher National Oceanic and Atmospheric Administration

(NOAA) National Geodetic Survey (NGS)

Revision date 2017-03-16 Edition date 2017-03-16

Series/Journal name NGS Online listing of transformation parameters

Other citation details webpage

Information source Title Introducing HTDP 3.1 to transform coordinates

across time and spatial reference frames

AuthorC. Pearson, R.A. SnayPublisherSpringer-VerlagPublication date2013-01-01Edition date2013-01-01Series/Journal nameGPS SolutionsIssue identificationVolume 17, No. 1

Page 1-15

Other citation details NAD83 (2011), NAD83 (MA11), NAD83 (PA11)

transformation from IGb08

Information source Title Introducing Two Spatial Reference Frames for

Regions of the Pacific Ocean

Author R.A. Snay

Publisher American Cobgress on Surveying and Mapping

Publication date2003-01-01Edition date2003-01-01

Series/Journal name Surveying and Land Information Systems

Issue identification Volume 63, No. 1

Page 5-12

Other citation details MARP00, PACP00

Data source ISO Geodetic Registry

Remarks Replaces NAD83 (HARN). Replaced by NAD83(PA11) from

2011-09-06.

Anchor definition 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.

Release date 2003 Coordinate Reference Epoch 1993.6

Scope Spatial referencing

Ellipsoid GRS 1980
Prime Meridian Greenwich

Extent

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

Item class Ellipsoid

Name GRS 1980

Item status VALID Identifier 27

Alias Geodetic Reference System 1980

Alias GRS1980
Alias IAG GRS80

Alias International 1979

Alias GRS80

Information source Title Geodetic Reference System 1980

Author H. Moritz

Publisher Springer International Publishing

Publication date 2003-03

Series/Journal name Journal of Geodesy Issue identification Volume 74, No. 1

Page 128–162

Information source Title Geodetic Reference System 1980

Author H. Moritz

Publisher International Association of Geodesy

Publication date 1984

Series/Journal name Bulletin Geodesique Issue identification Volume 58, No. 3

Page 395-405

Data source ISO Geodetic Registry

Remarks Adopted by IUGG 1979 Canberra. Inverse flattening is derived from

geocentric gravitational constant GM = 3986005e8 m\*m\*m/s/s, dynamic form factor J2 = 108263e-8 and Earth's angular velocity =

7292115e-11 rad/s.

 Semi-major axis
 6378137.0 m

 Inverse flattening
 298.257222101 m

Item class PrimeMeridian

Name Greenwich

Item status VALID
Identifier 25

Alias Zero meridian

Information source Title Why the Greenwich meridian moved

Author S. Malys, J.H. Seago, N.K. Pavlis, P.K.

Seidelmann, G.H. Kaplan

Publisher Springer International Publishing

Publication date 2015-12

Series/Journal name Journal of Geodesy Issue identification Volume 89, No. 12

Page 1263–1272

Information source Title IERS Conventions (2010)

Author G. Petit, B.J. Luzum (eds)

Publisher Verlag des Bundesamts fur Kartographie und

Geodasie

Publication date 2010

Edition date

Series/Journal name IERS Technical Notes

Issue identification 36.0

Other citation details ISSN: 1019-4568

Data source ISO Geodetic Registry

Greenwich longitude 0.0 °

Item class EllipsoidalCS

Name Ellipsoidal 3D CS. Axes: latitude, longitude,

ellipsoidal height. Orientations: north, east, up.

UoM: degree, degree, metre.

Item status VALID
Identifier 46

Information source Title ISO 19111 Geographical information - Spatial

referencing by coordinates

Author International Organization for Standardization

(ISO)

Publisher International Organization for Standardization

(ISO)

Publication date 2007-07-01

Edition Second Edition

Series/Journal name International Standard

Issue identification ISO 19111:2007

Data source ISO Geodetic Registry

Remarks Used in geographic 3D coordinate reference systems. Horizontal

coordinates referenced to this CS are in degrees. Any degree

representation (e.g. DMSH, decimal, etc.) may be used but that used

must be declared for the user.

#### Axes

Item class CoordinateSystemAxis

Name Geodetic latitude

Item statusVALIDIdentifier38

Information source Title ISO 19111 Geographical information - Spatial

referencing by coordinates

Author International Organization for Standardization

(ISO)

Publisher International Organization for Standardization

(ISO)

Publication date 2007-07-01

Edition Second Edition

Series/Journal name International Standard

Issue identification ISO 19111:2007

Data source ISO Geodetic Registry

Remarks Used in geographic 2D and geographic 3D coordinate reference

systems.

Abbreviation Lat
Direction north

Unit degree (supplier to define representation)

Item class CoordinateSystemAxis

Name Geodetic longitude

Item status VALID
Identifier 34

Information source Title ISO 19111 Geographical information - Spatial

referencing by coordinates

Author International Organization for Standardization

(ISO)

Publisher International Organization for Standardization

(ISO)

Publication date 2007-07-01

Edition Second Edition

Series/Journal name International Standard

Issue identification ISO 19111:2007

Data source ISO Geodetic Registry

Remarks Used in geographic 2D and geographic 3D coordinate reference

systems.

Abbreviation Lon
Direction east

Unit degree (supplier to define representation)

Item class CoordinateSystemAxis

Name Ellipsoidal height

Item statusVALIDIdentifier36

Information source Title ISO 19111 Geographical information - Spatial

referencing by coordinates

Author International Organization for Standardization

(ISO)

Publisher International Organization for Standardization

(ISO)

Publication date 2007-07-01

Edition Second Edition

Series/Journal name International Standard

Issue identification ISO 19111:2007

Data source ISO Geodetic Registry

Remarks Used only as part of an ellipsoidal 3D coordinate system in a

geographic 3D coordinate reference system, never on its own.

Abbreviation h

Direction up
Unit metre