ISO Geodetic Registry

Item class	Transformation	
Name	**ITRF2000 to NAD 83 (PACP00) [v1]**	
Item status	INVALID	
Identifier	484	
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	Transforming positions and velocities between the International Terrestrial Reference Frame of 2000 and the North American Datum of 1983
	Author	T. Soler, R.A. Snay
	Publisher	American Society of Civil Engineers
	Publication date	2004-05
	Series/Journal name	Journal of Surveying Engineering
	Issue identification	Volume 130, No. 2
	Page	49-55
Information source	Title	Introducing HTDP 3.1 to transform coordinates across time and spatial reference frames
	Author	C. Pearson, R.A. Snay
	Publisher	Springer-Verlag
	Publication date	2013-01-01
	Edition date	2013-01-01
	Series/Journal name	GPS Solutions
	Issue identification	Volume 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 date	2003-01-01
	Edition date	2003-01-01
	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	Transformation defines NAD83(PA11) and is treated as errorless.	
Operation version	v1	
Scope	Spatial referencing	
Operation accuracy	0.0 m	
Source CRS	ITRF2000 - XYZ	
Target CRS	NAD 83 (PACP00) - XYZ	
Operation method	Time-Dependent Coordinate Frame Transformation (geocentric Cartesian domain)	

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 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

Operation parameter values

X-axis translation	0.9102 metre
Y-axis translation	-2.0141 metre
Z-axis translation	-0.5602 metre
X-axis rotation	29.039 milliarc-second
Y-axis rotation	10.065 milliarc-second
Z-axis rotation	10.065 milliarc-second
Scale difference	0.0 parts per billion
Rate of change of X-axis translation	0.0 metre per year
Rate of change of Y-axis translation	0.0 metre per year
Rate of change of Z-axis translation	0.0 metre per year
Rate of change of X-axis rotation	-0.384 milliarc-second per year
Rate of change of Y-axis rotation	1.007 milliarc-second per year
Rate of change of Z-axis rotation	-2.186 milliarc-second per year
Rate of change of scale difference	0.0 parts per billion per year
Time reference	1997.0 year

ISO Geodetic Registry

Item class	OperationMethod
Name	**Time-Dependent Coordinate Frame Transformation (geocentric Cartesian domain)**
Item status	VALID
Identifier	94
Alias	Time-Dependent 7-Parameter Transformation
Alias	14-Parameter Transformation
Alias	Time-Dependent Coordinate Frame Transformation
Data source	ISO Geodetic Registry
Remarks	Note the analogy with the Time-dependent Position Vector Transformation but beware of the differences! The Position Vector Transformation convention is used by IAG.
Formula	Geomatics Guidance Note No 7, part 2: Coordinate Conversions and Transformations including Formulas

Operation parameters

X-axis translation
Y-axis translation
Z-axis translation
X-axis rotation
Y-axis rotation
Z-axis rotation
Scale difference
Rate of change of X-axis translation
Rate of change of Y-axis translation
Rate of change of Z-axis translation
Rate of change of X-axis rotation
Rate of change of Y-axis rotation
Rate of change of Z-axis rotation
Rate of change of scale difference
Time reference