ISO Geodetic Registry

Name ITRF2014 to NAD 83 (PA11) Epoch 2010 [NGS

v1]

Transformation

Item statusVALIDIdentifier990

Item class

Information source Title Multi-Year CORS Solution 2 (MYCS2)

Coordinates

Author U.S. National Geodetc Survey (NGS)

Publisher National Geodetc Survey (NGS), National

Oceanic and Atmospheric Administration (NOAA)

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mycs2/mycs2.shtml#htdp_params (accessed

2023-01-28)

Data source ISO Geodetic Registry

Remarks Transformation defines NAD 83 (PA11) with respect to ITRF2014 and

is treated as errorless.

Operation version NGS v1

Scope Spatial referencing

Operation accuracy 0.0 m

Source CRS ITRF2014 - XYZ

Target CRS NAD 83 (PA11) Epoch 2010 - XYZ

Operation method Time-Dependent Coordinate Frame Transformation (geocentric

Cartesian domain)

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

Operation parameter values

X-axis translation 0.9109 metre Y-axis translation -2.0129 metre Z-axis translation -0.5863 metre 22.749 milliarc-second X-axis rotation Y-axis rotation 26.56 milliarc-second Z-axis rotation -25.706 milliarc-second Scale difference 2.12 parts per billion Rate of change of X-axis translation 1.0E-4 metre per year Rate of change of Y-axis translation 1.0E-4 metre per year Rate of change of Z-axis translation -0.0019 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	0.11 parts per billion per year
Time reference	2010.0 year

ISO Geodetic Registry

Item class OperationMethod

Name Time-Dependent Coordinate Frame

Transformation (geocentric Cartesian domain)

Item statusVALIDIdentifier94

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