ISO Geodetic Registry

Item class Transformation

Name ITRF96 to ITRF97 [IERS v1]

Item statusVALIDIdentifier600

Information source Title The International Terrestrial Reference Frame

(ITRF97)

Author C. Boucher, Z. Altamimi, P. Sillard

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Remarks Null transformation. ITRF97 is aligned to ITRF96.

Operation version IERS v1

Scope Spatial referencing

Operation accuracy 0.0 m

Source CRS ITRF96 - XYZ
Target CRS ITRF97 - XYZ

Operation method Time-Dependent Position Vector Transformation (geocentric Cartesian

domain)

Extent

Data source

| 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

| Time reference | 1988.0 year |
|--------------------------------------|--------------------------------|
| Rate of change of scale difference | 0.0 parts per billion per year |
| Rate of change of Z-axis rotation | 0.0 milliarc-second per year |
| Rate of change of Y-axis rotation | 0.0 milliarc-second per year |
| Rate of change of X-axis rotation | 0.0 milliarc-second per year |
| Rate of change of Z-axis translation | 0.0 centimetre per year |
| Rate of change of Y-axis translation | 0.0 centimetre per year |
| Rate of change of X-axis translation | 0.0 centimetre per year |
| Scale difference | 0.0 parts per billion |
| Z-axis rotation | 0.0 milliarc-second |
| Y-axis rotation | 0.0 milliarc-second |
| X-axis rotation | 0.0 milliarc-second |
| Z-axis translation | 0.0 centimetre |
| Y-axis translation | 0.0 centimetre |
| X-axis translation | 0.0 centimetre |

ISO Geodetic Registry

Item class OperationMethod

Name Time-Dependent Position Vector

Transformation (geocentric Cartesian domain)

Item statusVALIDIdentifier82

Alias Time-Dependent 7-Parameter Transformation

Alias 14-Parameter Transformation

Alias Time-Dependent Position Vector Transformation

Data source ISO Geodetic Registry

Remarks Note the analogy with the rotation for the Time-dependent Coordinate

Frame 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