Item class GeodeticCRS

Name ITRF2000 - LatLon

Item statusVALIDIdentifier300

Alias IERS Terrestrial Reference Frame 2000

Alias International Terrestrial Reference Frame 2000

Information source Title IERS Message No. 5: ITRF2000 Primary Solution

Author C. Boucher, Z. Altamimi

Publication date 2001-03-19

Edition date

Series/Journal name IERS Message

Issue identification 5.0

Information source Title The ITRF2000

Author C. Boucher, Z. Altamimi, P. Sillard, M. Feissel-

Vernier

Publisher International Earth Rotation and Reference

Systems Service Central Bureau, Verlag des Bundesamts fur Kartographie und Geodasie,

Frankfurt am Main, Germany

Publication date 2004-01-01

Edition date

Series/Journal name IERS Technical Notes

Issue identification 31.0

Information source Title Effect of recent revisions to the geomagnetic

reversal time scale on estimates of current plate

motions

Author C.S. DeMets, R.G. Gordon, D.F. Argus, S. Stein

Publisher American Geophysical Union

Publication date 1994-10-01

Edition date

Series/Journal name Geophysical Research Letters

Issue identification Volume 21, Issue 20

Data source ISO Geodetic Registry

Remarks Replaces ITRF97 - LatLon . Replaced by ITRF2005 - LatLon .

Scope Spatial referencing

Datum International Terrestrial Reference Frame 2000

Coordinate System Ellipsoidal 2D CS. Axes: latitude, longitude. Orientations: north, east.

UoM: degree

Extent

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

Item class GeodeticDatum

Name International Terrestrial Reference Frame 2000

Item status VALID Identifier 165

Alias IERS Terrestrial Reference Frame 2000

Alias ITRF2000

Information source Title Effect of recent revisions to the geomagnetic

reversal time scale on estimates of current plate

motions

Author C.S. DeMets, R.G. Gordon, D.F. Argus, S. Stein

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Publication date 1994-10-01

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Series/Journal name Geophysical Research Letters

2001-03-19

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Information source Title IERS Message No. 5: ITRF2000 Primary Solution

Author C. Boucher, Z. Altamimi

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Information source Title The ITRF2000

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Publisher International Earth Rotation and Reference

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Frankfurt am Main, Germany

Publication date 2004-01-01

Edition date

Series/Journal name IERS Technical Notes

Issue identification 31.0

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

Remarks Replaces ITRF97. Replaced by ITRF2005. This is a purely Cartesian

reference frame with no ellipsoid defined. GRS80 is the ellipsoid

recommended by the IAG and IERS.

Anchor definition Realisation of the IERS Terrestrial Reference System (ITRS) at

reference epoch 1997.0. Origin is defined by satellite laser ranging (SLR). Scale is defined by SLR and very long baseline interferometry.

Orientation is aligned to the ITRF97 at epoch 1997.0, and its time evolution follows that of the no-net-rotation NNR-NUVEL-1A geophysical model. Datum defined by a set of 3 dimensional Cartesian

station coordinates and velocities given by the citations.

Release date 2001-03-19 Coordinate Reference Epoch 1997.0

Scope Spatial referencing

Ellipsoid	GRS 1980
Prime Meridian	Greenwich

Extent

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

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 statusVALIDIdentifier25

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 2D CS. Axes: latitude, longitude.

Orientations: north, east. UoM: degree

Item status VALID

Identifier 43

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 coordinate reference systems. 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 by the supplier of data.

Axes

Item class CoordinateSystemAxis

Name Geodetic latitude

Item status VALID
Identifier 38

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)