Item class GeodeticCRS

Name ETRF2014 - LatLon

Item statusVALIDIdentifier746

Alias European Terrestrial Reference Frame 2014

Information source Title EUREF 2017 Resolutions

Author M. Greaves Publication date 2017-05-19

Series/Journal name Report on the Symposium of the IAG

Subcommission for Europe (EUREF), Wroclaw,

Poland, 17-19 May 2017

Other citation details http://www.euref.eu/

symposia/2017Wroclaw/06-01-Resolutions-EUREF2017.pdf (accessed 2020-10-14)

Information source Title EUREF Technical Note 1: Relationship and

Transformation between the International and the

European Terrestrial Reference Systems

Author Z. Altamimi

Publisher Institut National de l'Information Géographique et

Forestière (IGN), France

Revision date 2018-06-28

Series/Journal name EUREF Technical Notes

Other citation details http://etrs89.ensg.ign.fr/pub/EUREF-TN-1.pdf

(accessed 2020-10-14)

Information source Title Guidelines for EUREF Densifications

Author C. Bruyninx, Z. Altamimi, A. Caporali, A.

Kenyeres, J. Legrand, M. Lidberg

Publisher IAG sub-commission for the European Reference

Frame – EUREF

Revision date 2018-03-09

Other citation details http://www.epncb.oma.be/

documentation/quidelines/

Guidelines\_for\_EUREF\_Densifications.pdf

(accessed 2020-20-14)

Data source ISO Geodetic Registry

Remarks The EUREF Governing Board recommends to use the ETRF2014 for

high precision applications and better consistency with the ITRF2014

precise geocentric origin.

Scope Spatial referencing

Datum European Terrestrial Reference Frame 2014

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

UoM: degree

### Extent

Europe - onshore and offshore: Albania,
Andorra, Austria, Belgium, Bosnia and
Herzegovina, Bulgaria, Croatia, Cyprus,
Czech Republic, Denmark, Estonia, Faroe
Islands, Finland, France, Germany, Gibraltar,
Greece, Hungary, Ireland, Italy, Latvia,
Liechtenstein, Lithuania, Luxembourg,

Macedonia, Malta, Monaco, Montenegro, Netherlands, Norway including Svalbard and Jan Mayen, Poland, Portugal, Romania, San Marino, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom (UK) including Channel Islands and Isle of Man, Vatican City State.

Geograph	ic Boundi	ing Box
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West-bound longitude	-16.1
North-bound latitude	84.17
East-bound longitude	39.65
South-bound latitude	32.88

Item class GeodeticDatum

Name European Terrestrial Reference Frame 2014

Item status VALID Identifier 745

Alias ETRF2014

Information source Title EUREF Technical Note 1: Relationship and

Transformation between the International and the

European Terrestrial Reference Systems

Author Z. Altamimi

Publisher Institut National de l'Information Géographique et

Forestière (IGN), France

Revision date 2018-06-28

Series/Journal name EUREF Technical Notes

Other citation details http://etrs89.ensg.ign.fr/pub/EUREF-TN-1.pdf

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Information source Title EUREF 2017 Resolutions

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Poland, 17-19 May 2017

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Kenyeres, J. Legrand, M. Lidberg

Publisher IAG sub-commission for the European Reference

Frame – EUREF

Revision date 2018-03-09

Other citation details http://www.epncb.oma.be/documentation/quidelines/

Guidelines for EUREF Densifications.pdf

(accessed 2020-20-14)

Data source ISO Geodetic Registry

Remarks The EUREF Technical Working Group (TWG) recommends to use the

ETRF2014 for high precision applications and better consistency with

the ITRF2014 precise geocentric origin.

Anchor definition Coincides with ITRF2014 at epoch 1989.0 and is fixed to the stable

part of the Eurasian tectonic plate through 3 rotation rates derived from the ITRF2014 velocity field, representing the Eurasian plate's angular

velocity about its Euler pole.

Release date 2017-11-16
Coordinate Reference Epoch 2010.0

Scope Spatial referencing

Ellipsoid GRS 1980
Prime Meridian Greenwich

#### Extent

Europe - onshore and offshore: Albania,
Andorra, Austria, Belgium, Bosnia and
Herzegovina, Bulgaria, Croatia, Cyprus,

Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, Germany, Gibraltar, Greece, Hungary, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malta, Monaco, Montenegro, Netherlands, Norway including Svalbard and Jan Mayen, Poland, Portugal, Romania, San Marino, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom (UK) including Channel Islands and Isle of Man, Vatican City State.

Geographic Bounding	і Вох
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West-bound longitude	-16.1
North-bound latitude	84.17
East-bound longitude	39.65
South-bound latitude	32.88

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 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

ICO Condation Designation

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)