ISO Geodetic Registry

Item class VerticalCRS

Name EVRF2019 - NHt

Item statusVALIDIdentifier765

Alias European Vertical Reference Frame 2019

Alias EVRF2019

Information source Title Conventions for the Definition and Realization of

a European Vertical Reference System (EVRS) -

EVRS Conventions 2007

Author J. Ihde, J. Mäkinen, M. Sacher Publisher International Association of Geodesy

Subcommission 1.3a EUREF

Revision date 2019-01-11

Other citation details https://evrs.bkg.bund.de/SharedDocs/

Downloads/EVRS/EN/Publications/ EVRFConventions2007.pdf (accessed

2020-11-30)

Information source Title EVRF2019

AuthorBundesamt fuer Kartogrphie und GeodaesiePublisherBundesamt fuer Kartogrphie und Geodaesie

Revision date 2020-09-07

Other citation details Website. https://evrs.bkg.bund.de/Subsites/

EVRS/EN/EVRF2019/evrf2019.html (accessed

2020-11-30)

Information source Title EVRF2019 as new realization of EVRS

Author M. Sacher, G. Liebsch

Publisher International Association of Geodesy

Subcommission 1.3a EUREF

Publication date 2019-05-22

Series/Journal name EUREF Symposium 2019, Tallinn, Estonia Other citation details http://www.euref.eu/symposia/2019Tallinn/01-01-

Sacher.pdf (accessed 2020-11-30)

Data source ISO Geodetic Registry

Remarks European Vertical Reference Frame 2019 in zero tide system. See

EVRF2019mean-NHt for mean-tide realization of EVRF2019. Replaces

EVRF2007-NHt.

Scope Spatial referencing

Datum European Vertical Reference Frame 2019

Coordinate System Vertical CS. Axis: height (H). Orientation: up. UoM: m.

Extent

Description Europe - onshore - Andorra, Austria, Belarus,

Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France - mainland, Germany, Gibraltar, Hungary, Italy - mainland, Latvia, Liechtenstein, Lithuania, Luxembourg, Netherlands, North

Macedonia, Norway, Poland, Portugal,

Romania, Russia - west of approximately 60 deg E, San Marino, Slovakia, Slovenia, Spain

	 mainland, Sweden, Switzerland, Ukraine, United Kingdom - Great Britain mainland, Vatican City State. 		
Geographic Bounding Box	West-bound longitude North-bound latitude East-bound longitude South-bound latitude	-9.56 77.07 69.16 35.95	

ISO Geodetic Registry

Item class VerticalDatum

Name European Vertical Reference Frame 2019

Item statusVALIDIdentifier763

Alias EVRF2019

Information source Title EVRF2019

Author Bundesamt fuer Kartogrphie und Geodaesie Publisher Bundesamt fuer Kartogrphie und Geodaesie

Revision date 2020-09-07

Other citation details Website. https://evrs.bkg.bund.de/Subsites/

EVRS/EN/EVRF2019/evrf2019.html (accessed

2020-11-30)

Information source Title Conventions for the Definition and Realization of

a European Vertical Reference System (EVRS) -

EVRS Conventions 2007

Author J. Ihde, J. Mäkinen, M. Sacher Publisher International Association of Geodesy

Subcommission 1.3a EUREF

Revision date 2019-01-11

Other citation details https://evrs.bkg.bund.de/SharedDocs/

Downloads/EVRS/EN/Publications/ EVRFConventions2007.pdf (accessed

2020-11-30)

Information source Title EVRF2019 as new realization of EVRS

Author M. Sacher, G. Liebsch

Publisher International Association of Geodesy

Subcommission 1.3a EUREF

Publication date 2019-05-22

Series/Journal name EUREF Symposium 2019, Tallinn, Estonia Other citation details http://www.euref.eu/symposia/2019Tallinn/01-01-

Sacher.pdf (accessed 2020-11-30)

Data source ISO Geodetic Registry

Remarks EVRF2019 is realized by an adjustment of geopotential numbers of the

Unified European Levelling Network in the zero-tide system, followed by computation of Normal heights, referenced to the GRS80 ellipsoid. Measurements of BY, CH, DK, EE, FI, LT, LV, NO, RU, SE were reduced to epoch 2000 using the vertical velocity model NKG2016LU for Nordic countries and a set of velocities for Switzerland, provided by Swisstopo. See EVRF2019mean for the mean-tide realization of

EVRF2019. Replaces EVRF2007.

Anchor definition Height at Normal Amsterdams Peil (NAP) is zero, realised by least

squares fit to 12 datum points of EVRF2007 solution.

Release date 2020-09
Coordinate Reference Epoch 2000.0

Scope Spatial referencing

Extent

Description Europe - onshore - Andorra, Austria, Belarus,

Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France - mainland, Germany, Gibraltar, Hungary, Italy - mainland, Latvia, Liechtenstein,

Lithuania, Luxembourg, Netherlands, North
Macedonia, Norway, Poland, Portugal,
Romania, Russia - west of approximately 60
deg E, San Marino, Slovakia, Slovenia, Spain
- mainland, Sweden, Switzerland, Ukraine,
United Kingdom - Great Britain mainland,
Vatican City State.

ı	Geographic	Rounding	Roy	И
ı	Geographic	Douilailic	I DUX	VV

West-bound longitude	-9.56
North-bound latitude	77.07
East-bound longitude	69.16
South-bound latitude	35.95

ISO Geodetic Registry

Item class VerticalCS

Vertical CS. Axis: height (H). Orientation: up.

UoM: m.

Item status VALID
Identifier 42

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 vertical coordinate reference systems.

Axes

Item class CoordinateSystemAxis

Name Gravity-related height

Item statusVALIDIdentifier35

Information source Title ISO 19111 Geographical information - Spatial

referencing by coordinates

Author International Organization for Standardization

(150)

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 a 1D vertical coordinate system.

Abbreviation H
Direction up
Unit metre