ISO Geodetic Registry

Item class	VerticalDatum	
Name	**European Vertical Reference Frame 2019 mean tide**	
Item status	VALID	
Identifier	764	
Alias	EVRF2019mean	
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)
Data source	ISO Geodetic Registry	
Remarks	EVRF2019 is realized by an adjustment of geopotential numbers of the Unified European Levelling Network in the mean tide system, followed by computation of Normal heights, referenced to GRS80 ellipsoid. Measurements of BY, CH, DK, EE, FI, LT, LV, NO, RU, SE were reduced to epoch 2000 using the velocity model NKG2016LU for Nordic countries and a set of velocities for Switzerland, provided by Swisstopo. See EVRF2019 for zero-tide realization of EVRF2019 consistent with EVRS conventions.	
Anchor definition	Height at Normal Amsterdams Peil (NAP) is zero, realised by least squares fit to 12 datum points of EVRF2007 solution, transformed to mean tide by Cmean = Czero + 0.28841·sin^2(phi) + 0.00195·sin^4(phi) - 0.09722 - 0.08432 [kgal·m]. The constant 0.08432 kgal·m is used to force the mean-tide height to equal the zero-tide height at the EVRF2000 origin in Amsterdam.	
Release date	2020-09	
Coordinate Reference Epoch	2000.0	
Scope	Spatial referencing and oceanographic applications	

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*	-9.56
	North-bound latitude	77.07
	East-bound longitude	69.16

South-bound latitude	35.95