

# Stratigraphic Table of Germany Compact 2022



Global Stratigraphic Scale (GSS)						Regional Stratigraphic Scale (RSS)									
ERA ERATHEM	PERIOD SYSTEM	EPOCH SERIES	STAGE (AGE)	Duration Ma	Age Ma	Regional Geochronol.	Region	Lithostratigraphy, Climatostratigraphy (Quaternary) (selected examples) (older\younger)	Natural resources, deposits, reservoirs, fossils (selected examples)	Regional Stage Group	GLOBAL EPOCH/SER.	PERIOD SYSTEM	Supergroup		
														STG 2016, modified	
CENozoic	QUATERNARY	HOLOCENE <small>δD anomaly</small>	MEGHALAYAN	0.004	0.008	0.008	North Germany	Subboreal\Subatlantic	peat	Holocene	HOLO-CENE	QUATERNARY	QUATERNARY		
			NORDGRIPPIAN	0.012				Preboreal\Boreal\Atlantic	alluvial loam	Neandertal NW					
		L. U. STAGE 4	0.114	0.126	Weichsel, Gl. Eem Ig. Würm Glacial	H <sub>2</sub> O	Steinheim BW								
		M. M. CHIBANIAN	0.65	0.78	Saai, Complex Holst., Riss Glacial	tephra	Bilzingsleben TH								
	PLEISTOCENE	2.6	E. L.	CALABRIAN	1.02	1	North Germany	Elster, Gl. Ig. Cromer. Complex	Donau	clay, loam, marl	Reg. Stage North Sea	PLEISTOCENE	QUATERNARY		
				Menapian\Bavelian Complex	clay, loam, marl	Merxheimian									
	PLIOCENE	2.7	L. U.	GELASIAN	0.8	2	North Germany	Waalian Complex	Biber	diatomaceous earth	Scaldisian	PLIO.	NEOGENE		
				Pretigian Complex	travertine	Mors\Katte.									
	TERTIARY	PALEOGENE	20.5	MIOCENE	ZANCLEAN	1.0	2.6	North Germany	Quassel	Lower Rhine	basalt BW, HE, NI, RP, SN, TH	Rates Impact BY, BW	MIOCENE	NEOGENE	
					MESSINIAN	1.7	3.6		Kieseloolith	Molasse Basin	clay BB, SN	Syltian			
				E. L.	TORTONIAN	4.35	10		Inden Fm.	Upper Freshwater Molasse	Lower Rhine NW	Langenfeld.			
					M. M.	SERRAVALLIAN	2.2		13.8	Ville Fm.	brown coal	Reinbekian			
				E. L.	LANGHIAN	2.2	16.0		Malliß Fm.	Up. Brack. M.	Lusatia BB, SN	Hemmoorian			
					BURDIGALIAN	4.4	20.4		Möllin Fm.	Up. Marine M.	bentonite BY†	Vierlandian			
				L. U.	AQUITANIAN	2.6	23.0		Köln Fm.	Low. Fresh. water Mol.	quartzsand (glass) HE, BB, NI	Neochattian			
					CHATTIAN	5.1	25		Cottbus Formation	Basal Mol.	kaolin Kemmlitz SN	Eochattian			
				E. L.	RUPELIAN	5.8	30		Rupelton Fm.	Bohen Fm.	brown coal ST, SN	Rupelian			
					PRIABONIAN	4.1	35		Schönewalde Fm.	Borna Fm.	clay (pottery, bricks) RP, BB, BY, TH	Latdorfian			
	M. M.	LUTETIAN	6.5	45	Genthin Fm.	Geisel Fm.	oil BW, RP, HE, BY								
		YPRESIAN	8.2	50	Nedlitz Fm.	basal Eocene clay	fireclay Großalmerode HE								
L. U.	SELANDIAN	2.4	61.6	Thanedian	SELANDIAN	Borken HE									
	DANIAN	4.4	65	MAASTRICHTIAN	66.0	Geisel ST									
CRETACEOUS	LATE CRETACEOUS	34.5	CAMPANIAN	11.5	70	Germany	Reitbrook Fm.	Schreibkreide	chalk NI, SH, MV	Parapuzosia seppenradensis NW	LATE CRETACEOUS	CRETACEOUS			
			SANTONIAN	3.0	83.5		Münster Gr.	Elbalt	marly limestone (cement) NW, NI	Münster					
			CONIACIAN	3.5	86.5		Ahlten Fm.	Elbalt	glaucanite limestone Anröchte NW	Schreibkreide					
			TURONIAN	4.0	90.0		Misburg Fm.	Elbalt	siliceous earth SN	Plänerkalk					
			GENOMANIAN	6.5	100.5		Emischer Fm.	Elbalt	Neuburg BY						
			ALBIAN	12.5	110		Salder Fm.	Elbalt	Osnung Sst. NW, NI						
			APTIAN	≈8.5	113		Erwitte Fm.	Elbalt	clay: survey final storage						
			BARREMIAN	≈8.0	121.5		Brochterbeck\Söhle Fm.	Elbalt	Amberg BY						
			HAUTERIVIAN	3.0	129.5		Baddeckenstedt Fm.	Elbalt	Salzgitter NI						
			VALANGINIAN	≈7.5	132.5		Herbram Fm.	Elbalt	Lower Cret. clay (bricks) NW, NI						
JURASSIC	LATE JURASSIC	18.5	TITHONIAN	7.0	150	Germany	Flammenmergel	Alfeld Formation	Hils Formation	Peine Formation	Minden-Braunschweig	EARLY CRETACEOUS	JURASSIC		
			KIMMERIDGIAN	5.0	157		Minden-Braunschweig Gr.	Bückerberg	Bentheim Sst. Wietze (oil) NI						
			OXFORDIAN	6.5	160		Flämling Fm.	Elbalt	Obernkirchen Sst. NI						
			BATHONIAN	2.0	168		Lägerdorf Fm.	Elbalt	Solnhofen Limestone BY						
			BAJOC.	2.5	166		Erwitte Fm.	Elbalt	Massenkalk Fm. Impressamerger						
			AALENIAN	3.5	170.5		Ornatenton Formation	Elbalt	Mittelplate SH						
			TOARCIAN	9.0	180		Mittelplate sst. Fm.	Elbalt	clay: survey final storage						
			PLIENSCHACHIAN	8.0	183		Parkinson Fm.	Elbalt	Posidonien-schiefer Holzmaden, Dotternhausen BW						
			SINEMURIAN	8.0	191		Altmark Sst.	Elbalt	clay- and silt-stone BW, BY, NI, NW, MV						
			'HETTANGIAN'	2.5	199		Opalinuston Fm.	Elbalt	geothermal power						
TRIASSIC	LATE TRIASSIC	35.5	NORIAN	21.5	220	Germany	Extar Formation (Rhätkeuper)	geothermal heat Waren				TRIASSIC of Central Europe	German Trias		
			Wetter Formation (Upper Gipskeuper)	reservoir Ketzin											
			KARNIAN	10	237		Arnstadt Formation (Steinmergelkeuper)	Plateosaurus engelhardti BW, BY, ST							
			LADINIAN	5	242		Wesertal Formation (Schilfsandstein)	anhydrite BB							
			ANISIAN	5	247		Grabfeld Fm. (Lower Gipskeuper)	gypsum							
			OLENEKIAN	4	251		Erfurt Formation (Lettenkeuper)	limest. BW, BB, ST, BY, TH, NI, rock							
			INDUAN	1.5	252.5		Trochitenkalk\Meißner\Warburg Fm.	Jura							
				4	251		Jena Fm.	Rot Fm.	Karst\Heilbr.\Diemel Fm.						
				1.5	252.5		Volprie\Detfurth\Hardegsen\Solling Fm.	Volprie\Detfurth\Hardegsen\Solling Fm.							
				1.5	252.5		Calvörde\Bernburg Fm.	Calvörde\Bernburg Fm.							

≈ approximate duration      • GSSP (Global Stratotype Section and Point)      Scale changeover      Resources, deposits: The age of the reservoir/host rock is shown      Sponsored by: **GFZ** **DGGV** **SENCKENBERG**  
 (1) according to Stratigraphic Table of Germany 2016. (2) selected resources and reservoirs complemented according to Menning & DSK 2012: 398