

Stratigraphic Table of Germany Compact 2012a



Global Stratigraphic Scale (GSS)					Regional Stratigraphic Scale (RSS) (composite)												
ERATHEM ERA	SYSTEM PERIOD	SERIES EPOCH	STAGE AGE	DURATION STD 2002	TIME	Folge	Region	Lithostratigraphy, Climatostratigraphy (Quaternary) (selected examples) (older\younger)	Natural resources, deposits, reservoirs, fossils (selected examples)	Regional Stage Group	GLOBAL SERIES PERIOD	SYSTEM PERIOD					
CENOZOIC	QUATERNARY 2.6	HOLOCENE ^{8D}	HOLOCENE	0.012	0.012		N-Germany	Subboreal/Subatlantic Preboreal/Boreal Atlantic	peat alluvial loam		HOLOCENE	QUATERNARY					
		PLEISTOCENE 2.6	(TARANTIAN) (IONIAN)	0.115 0.65	0.127 0.78	1		Weichselian Gl. Saalien Gl. Elster Gl. Bavelian Cpl. Menapien Cpl. Wealcan Complex Tiglian Complex Pretilgan Complex	Wurm Glacial Riss Glacial Hoßkirch Gl. Mindel Cover Gravel Günz Cover Gravel Donau Cover Gravel	Rhine Glacier	Neanderthal NW Steinheim BW Blitzingsleben TH Heidelberg BW	PLEISTOCENE	QUATERNARY				
	PALEOGENE	MIOCENE 18.5	PLIOCENE 2.7 Insolation Cycle 510	PIACENZIAN ZANCLIAN MESSINIAN	1.0 1.7 1.8	2.6 3.6 5.3	5	WeiBwasser Beds	Lower Rhine Kieseloolith Inden Fm.	Molasse Basin	pasat BW, HE, NI, RP, SN, TH clay BB, SN	Scaldian Mors/Katta, Sylvania Gramian Langenfeld.	PLIO.	NEOGENE			
			MIOCENE 18.5	GELASIAN SERRAVALLIAN LANGHIAN BURDIGALIAN	0.78 3.6 1.6 4.1	1.8 11.2 16.4 20.5	2	Baden Formation Neuro Formation Brieske Formation Spremburg Formation	Up. Freshwater Molasse Up. Brack /Up. Marine Up. Marine Mainz Basin Low, Fresh, Mol. /Up. Brack, Mol.	Lower Rhine NW brown coal Lusatia BB, SN pentonite BY† gravel BY† Quartzsand (glass) HE†, BB†, NI, kaolin Kernlitz SN Hirschau BY	Merxian		MIOCENE	NEOGENE			
	OLIGOCENE 10	Eocene 21	OLIGOCENE 10	CHATTIAN RUPELIAN	4.7 5.2	28.5 33.7	25	Cottbus Formation Rupelton Formation	Sulzheim Formation Boden-Alzey heim Fm. Fm. Pechelbronn Group	water rich Mo. /Mol. Lower Marine Molasse	brown coal ST, SN clay (pottery) bricks RP, BB, BY, TH NW, NI, MV, HE oil BW, RP, HE, BY	Neochattian Eochattian Rupelian Ladortian		OLIGOCENE	PALEOGENE		
			EOCENE 21	PRIABONIAN BARTONIAN LUTETIAN	3.3 4.3 7.7	37.0 41.3 49.0	35	Schönewald. Borna. Fm. Serno Fm. Profen	Hagenau Group Basal Eocene Clay Messel Fm.	Globigerinenmergel	almerode HE brown c. SN, ST Borken HE brown coal Gaiselst. ST clay (pottery) Eisenberg RP oil shale Messel HE clay (clay meal, medicinal clay) Friedland MV	first horse Messel HE		EOCENE	PALEOGENE		
	PALEOZOIC	CRETACEOUS 77	UPPER CRETACEOUS 34	PALEOEOCENE 41	YPRESIAN THANETIAN SELANDIAN	5.8 3.1 3.1	54.8 57.9 61.0	55	Zerben Formation Mahlpfuhl Fm. Nassenheide Fm. Waßmannsdorf Fm. Wülpen Formation	Kressenberg Formation Olching Formation	natural gas + underground reservoir Propalaeotherium sappertraderis NW			PALEOEOCENE	PALEOZOIC		
				CRETACEOUS 77	MAASTRICHTIAN	6.3	65.0	65	Schreibkreide Group Münster Group	Alpine Cretaceous	Reitbrook HH chalk NI, SH, MV marly limestone (cement) NW, NI glauconite limestone Anroche NW Elsandsstein siliceous SN earth Neuburg BY Osnung Sandstone NW, NI Amberg BY Salzgitter NI Lower Cret. clay (bricks) NW, NI Bentheim Sst. (oil) Wietze (oil) Obernkirchen Sandstone Solnhofen Limestone BY Limestone BY, NI, RP, SN			UPPER CRETACEOUS	CRETACEOUS		
	MESOZOIC	JURASSIC 146	MIDDLE JURASSIC 21.5	CRETACEOUS 77	CENOMANIAN	5.4	93.5	90	Plänerkalk Group Clayst./Flammenmergel	Elbtal Group Danubian Cretaceous Group	Fe			LOWER CRETACEOUS	CRETACEOUS		
				LOWER JURASSIC 58	ALBIAN	13.3	112.2	110	Minimus Clay	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS		
				UPPER JURASSIC 14.5	MIDDLE JURASSIC 21.5	MIDDLE JURASSIC 21.5	APTIAN	8.8	121.0	120	Osnung Sandstone	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS
							BARRÉMIAN	6.0	127.0	130	Fischschiefer Claystone Hauptblätterton Gleidehus Sst. Claystone Bentheim Sst. Buckeberg Fm.	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS
				LOWER JURASSIC 22	MIDDLE JURASSIC 21.5	MIDDLE JURASSIC 21.5	HAUTERIVIAN	5.0	132.0	130	Valanginian	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS
							VALANGINIAN	5.0	137.0	140	Berriasian	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS
				UPPER JURASSIC 14.5	MIDDLE JURASSIC 21.5	MIDDLE JURASSIC 21.5	BERRIASIAN	5.0	142.0	140	Tithonian	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS
							TITHONIAN	4.0	146.0	150	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS
				UPPER JURASSIC 14.5	MIDDLE JURASSIC 21.5	MIDDLE JURASSIC 21.5	KIMMERIDGIAN	6.5	152.5	150	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS
							OXFORDIAN	4.0	156.5	160	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS
	UPPER JURASSIC 14.5	MIDDLE JURASSIC 21.5	MIDDLE JURASSIC 21.5	ORNATONIAN	7.2	163.7	160	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS			
				GALLOVIAN	2.8	166.5	170	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS			
UPPER JURASSIC 14.5	MIDDLE JURASSIC 21.5	MIDDLE JURASSIC 21.5	BATHONIAN	2.8	167.5	170	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS				
			BAJOCIAN	8.0	174.5	180	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS				
UPPER JURASSIC 14.5	MIDDLE JURASSIC 21.5	MIDDLE JURASSIC 21.5	TOARCIAN	3.5	178.0	180	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS				
			ALENIAN	5.6	183.6	190	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS				
UPPER JURASSIC 14.5	MIDDLE JURASSIC 21.5	MIDDLE JURASSIC 21.5	PLIENSACHIAN	7.9	191.5	190	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS				
			SINEMURIAN	5.0	196.5	200	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS				
UPPER JURASSIC 14.5	MIDDLE JURASSIC 21.5	MIDDLE JURASSIC 21.5	HETTANGIAN	3.5	200.0	200	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS				
			RHAETIAN	5.0	205.0	210	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS				
TRIASSIC 250	UPPER TRIASSIC 31	UPPER TRIASSIC 31	Triassic 200			200	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS				
			UPPER TRIASSIC 31	NORIAN	15.0	210	210	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS			
			UPPER TRIASSIC 31	UPPER TRIASSIC 31	UPPER TRIASSIC 31	CARNIAN	11.0	220.0	220	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS	
						LADINIAN	7.0	238.0	240	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS	
			UPPER TRIASSIC 31	UPPER TRIASSIC 31	UPPER TRIASSIC 31	ANISIAN	6.0	244.0	240	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS	
						OLENEKIAN	5.0	249.0	250	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS	
			UPPER TRIASSIC 31	UPPER TRIASSIC 31	UPPER TRIASSIC 31	INDUAN	2.0	251.0	250	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS	
						Triassic 250			250	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS	
			UPPER TRIASSIC 31	UPPER TRIASSIC 31	UPPER TRIASSIC 31	Triassic 250			250	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS	
						Triassic 250			250	Upper Jurassic	Alpine Cretaceous	Fe			LOWER CRETACEOUS	CRETACEOUS	

● GSSP (Global Stratotype Section and Point) Time: Million years (Ma) Scale changeover
 ○ GSSP proposed locality in Germany Age of resource = Age of reservoir rock
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