

Chronostratigraphic age: Eifelian, Givetian?

Biostratigraphy: -

Thickness: Less than 100 m.

Lithostratigraphically higher rank unit: Lantsch Group.

Lithostratigraphic subdivision: -

Underlying unit(s): Flösserkogel Formation (with tectonic contact).

Overlying unit(s): Tyrnaueralm Formation.

Lateral unit(s): Zachenspitz Formation.

Geographic distribution: Styria, highland in the surroundings of Graz; ÖK50-BMN, map sheet 134 Passail.

Remarks: Parts of this formation which contain corals and stromatoporoids resemble the Plabutsch Formation resp. the Tyrnaueralm Formation of the Rannach Group. ZIER (1982) distinguished two parts within the sequence, a lower up to 60 m thick part of the succession which contains considerable amounts of stromatoporoids and corals and an upper part with white fossil-free beds of limestones. FLÜGEL (2000) assigned ZIER's lower part of the formation ("unterer Schweineggkalk") to the Draxler Formation which was synonymised with the Plabutsch Formation by HUBMANN (2003).

Complementary references: GOLLNER & ZIER (1985).

Rotmüller-Formation / Rotmüller Formation

BERNHARD HUBMANN

Validity: Valid; first description and formalization by EBNER (1998: p. 128).

Type area: ÖK50-UTM, map sheet 4222 Leoben (ÖK50-BMN, map sheet 163 Voitsberg).

Type section: No type section published because of bad outcrops; according to EBNER (1998) on both sides of the Arzbach valley from "Reicherhöhe" (998 m; N 47°12'24" / E 15°14'23") in the southwest to "Rathlosgraben" in the northeast and in the vicinity of the farmstead "Rotmüller" (N 47°14'54" / E 15°14'52") on ÖK50-BMN, map sheet 163 Voitsberg typical outcrops of the formation may be seen.

Reference section(s): See above; forest road west of Reicherhöhe at altitude 880 m (EBNER, 1998)

Remarks: The Formation may be a lateral equivalent of the Tyrnaueralm Formation (EBNER, 1998: p. 128).

Derivation of name: After the farmstead "Rotmüller" 40 km northwest of Graz.

Synonyms: -

Lithology: Massive light to dark grey dolostones.

Fossils: Stromatoporoids (especially amphiporids), rugose and tabulate corals, crinoids, brachiopods.

Origin, facies: Subtidal depositional environment.

Chronostratigraphic age: ?Eifelian – Givetian.

Biostratigraphy: -

Thickness: About 300 m.

Lithostratigraphically higher rank unit: Lantsch Group.

Lithostratigraphic subdivision: -

Underlying unit(s): Flösserkogel Formation (tectonic contact).

Overlying unit(s): Fahrneck Formation.

Lateral unit(s): Zachenspitz Formation?

Geographic distribution: Styria, highland in the surroundings of Graz; ÖK50-BMN, map sheet 134 Passail.

Remarks: -

Complementary references: FLÜGEL (2000).

Kollerkogel-Formation / Kollerkogel Formation

BERNHARD HUBMANN

Validity: Valid; first entry by SUESS (1868: "ungeschichteter, ... lichtgrauer Kalkstein, welcher ... an den Westhängen des Kollerberges ... entblößt ist"); formalized by FLÜGEL (2000: p. 25–26; Kollerkogel-Formation).

Type area: ÖK50-UTM, map sheet 4229 Graz (ÖK50-BMN, map sheet 164 Graz).

Type section: No type section defined, but FLÜGEL (2000) selected a type region at Kollerkogel (Kollerberg, 633 m) (N 47°03'46" / E 15°22'35"), a hill belonging to the Plabutsch-Buchkogel-Range west of Graz.

Reference section(s): -

Derivation of name: After the hill Kollerberg (633 m) west of Graz.

Synonyms: Helle Kalke (KUNTSCHNIG, 1937); Helle Kalke des Mitteldevon (SCHÄFER, 1937); partly: Korallenkalk (CLAR, 1874) and Mitteldevon-Gruppe (VACEK, 1891).

Lithology: Grey dolomites with biolaminations, light bluish limestones (mostly mudstones), locally bioclastic limestones with chert nodules.

Fossils: Rugose and tabulate corals, stromatoporoids, conodonts.

Origin, facies: Major parts of the sequence developed in an open platform setting; basal parts are shallow restricted lagoonal deposits due to biolaminations, emersion horizons and pseudomorphs after gypsum.

Chronostratigraphic age: Givetian–Frasnian.

Biostratigraphy: *varcus* Zone; *asymmetricus* to *triangularis* conodont zones.

Thickness: Strong variation in thickness; about 150 m.

Lithostratigraphically higher rank unit: Rannach Group.

Lithostratigraphic subdivision: FLÜGEL (2000) included four members in the Kollerkogel Formation.

Gaisbergsattel Member: dark grey biolaminated dolostones; about 20 m (up to 100 m) in thickness.

Kanzel Member: light grey to bluish limestones; mostly mudstones; up to 100 m in thickness.

Platzl Member: sequence of grey limestones intercalated with carbonatic argillaceous shales; about 50 m in thickness.

Platzlkogel Member: grey limestones (in some places biohermal structures); about 75 m in thickness.

Underlying unit(s): Plabutsch Formation (conformable contact).

Overlying unit(s): Steinberg Formation (conformable contact).

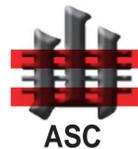
Lateral unit(s): ?Plabutsch Formation.

Geographic distribution: Styria, highland in the surroundings of Graz; ÖK50-BMN, map sheets 134 Passail, 163 Voitsberg, 164 Graz.

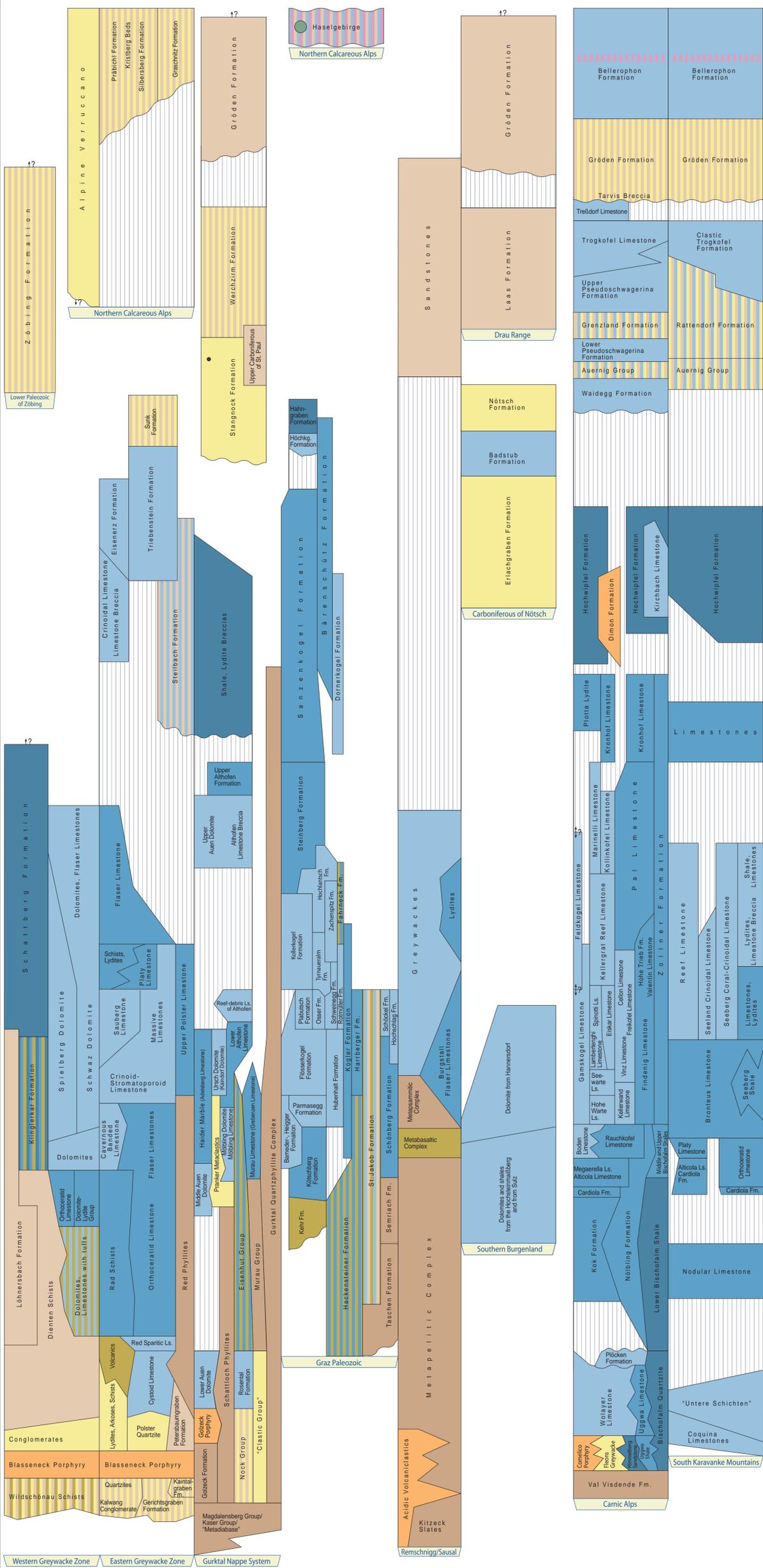
Austrian Stratigraphic Chart 2004 - Paleozoic

(sedimentary successions)

Austrian Stratigraphic Commission



ERA	SYSTEM / PERIOD / SERIES / EPOCH	STAGE / AGE	DURATION Ma	Global Classification					
				ERATHM / ERA	SYSTEM / PERIOD / SERIES / EPOCH				
PALEOZOIC	PERMIAN	CHANGHSINGIAN / Dorashanian	251	PERMIAN	MID PERMIAN / GUADALUPIAN / LOPINGIAN				
		WUCHIAPINGIAN / Dzhulfian	255						
		CAPITANIAN	260						
		WORDIAN	265						
		ROADIAN	270						
		PERMIAN	LOWER PERMIAN / CISURALIAN			KUNGURIAN	275		
						ARTINSKIAN	280		
						SAKMARIAN	285		
						ASSELIAN	290		
		PERMIAN	UPPER PERMIAN / CARBONIFEROUS / PENNSYLVANIAN			GZHELIAN	295	PERMIAN	LOWER PERMIAN / CISURALIAN
KASIMOVIAN	300								
MOSKOVIAN	305								
BASHKIRIAN	310								
PERMIAN	UPPER PERMIAN / CARBONIFEROUS / PENNSYLVANIAN			SERPUKHOVIAN	315				
				VISEAN	320				
					325				
PERMIAN	LOWER PERMIAN / CISURALIAN			TOURNAISIAN	330	PERMIAN	LOWER PERMIAN / CISURALIAN		
				335					
				340					
		345							
		350							
		355							
		359.2							
		PERMIAN	UPPER PERMIAN / DEVONIAN	FAMENNIAN	360			PERMIAN	UPPER PERMIAN / DEVONIAN
				FRASNIAN	365				
				370					
375									
380									
385									
390									
395									
400									
405									
PERMIAN	LOWER PERMIAN / DEVONIAN	EMSIA	410	PERMIAN	LOWER PERMIAN / DEVONIAN				
		PRAGIAN	415						
		LOCHKOVIAN	420						
		425							
		430							
		435							
		440							
		443.7							
		445							
		PERMIAN	UPPER PERMIAN / DEVONIAN			LUDFORDIAN / GORSTIAN	450	PERMIAN	UPPER PERMIAN / DEVONIAN
HOMERIAN / SHEINWOOD	455								
TELYCHIAN	460								
AERONIAN	465								
RHUDDANIAN	470								
HIRNANTIAN	475								
480									
485									
488.3									
490									
PERMIAN	UPPER PERMIAN / DEVONIAN	PAIBIAN	495	PERMIAN	UPPER PERMIAN / DEVONIAN				
		500							
		505							
		510							
		515							
		520							
		525							
		530							
		535							
		540							
CAMBRIAN	LOWER CAMBRIAN	542	CAMBRIAN	LOWER CAMBRIAN					
		540							
		535							
		530							
		525							
		520							
		515							
		510							
		505							
		500							



- Legend**
- pelagic, offshore, siliciclastic
 - pelagic, nearshore, calcareous
 - shallow marin, neritic
 - terrestrial-continental, coarse clastic
 - terrestrial-continental, fine clastic
 - evaporite (chloride, sulphate)
 - rhyolite, dacite
 - (basaltic) andesite, trachyandesite
 - basalt
 - phyllite
 - mixed-facies (in corresponding colors)
 - coal (may include several seams)
 - ? position/age doubtful/controversial
 - | equal units
 - \ older unit left \ younger unit right
 - hiatus
 - unconformity
 - GSSP
 - Fm. Formation
 - Ls. Limestone

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Cutout and English adaptation of the "Die Stratigraphische Tabelle von Österreich 2004": Geological Survey of Austria

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