

Chronostratigraphic age: Frasnian–Famennian.

Biostratigraphy: Ammonoid zones (*acuticostata* and *piriformis Clymenia* zones; upper *paradoxa* and *prorsum Woeklumeria* zones); upper *hassi* to *praesulcata* conodont zones.

Thickness: > 100 m.

Lithostratigraphically higher rank unit: -

Lithostratigraphic subdivision: -

Underlying unit(s): Cellon Limestone (conformable contact), Freikofel Limestone (conformable contact), Hohe Trieb Formation (unconformable contact), Valentin Limestone (unconformable contact).

Overlying unit(s): Kronhof Limestone (conformable contact).

Lateral unit(s): Kellergrat Reef Limestone, Kollinkofel Limestone, Hohe Trieb Formation, Valentin Limestone, Zollner Formation.

Geographic distribution: Carnic Alps.

Remarks: -

Complementary references: FRECH (1894b, 1902), GAERTNER (1927, 1931), PÖLSLER (1967, 1969a, b), LANGER (1969), SCHÖNLAUB (1969b, 1985a, b, 1999), VAI (1971, 1998), BANDEL & BECKER (1975), PERRI & SPALLETTA (1981, 1991, 1998c, d, e, f), KREUTZER (1990), DREESEN (1992), FEIST (1992), KORN (1992, 1999), RANTITSCH (1992a), SCHÖNLAUB et al. (1992, 2004), JOACHIMSKI et al. (1994), PERRI et al. (1998), SPALLETTA & PERRI (1998b, 1998d), SPALLETTA et al. (1998a, b), SCHÖNLAUB & HISTON (1999, 2000), SCHÖNLAUB & KORN (1999), KAISER et al. (2006), VENTURINI (2006), BRIME et al. (2008).

Marinelli-Kalk / Marinelli Limestone

THOMAS J. SUTTNER

Validity: Invalid; name was introduced by KREUTZER (1992a: p. 271); included within the summary of the Variscan carbonate sequences in the Carnic Alps (KREUTZER, 1992b).

Type area: ÖK50-UTM, map sheets 3109 Oberdrauburg, 3110 Kötschach-Mauthen, 3116 Sonnenalpe Naßfeld (ÖK50-BMN, map sheet 197 Kötschach (Italian side)).

Type section: -

Reference section(s): Southern slope of Kellerspitzen east of Rifugio Giovanni e Olinto Marinelli (KREUTZER, 1992b).

Derivation of name: After Rifugio Giovanni e Olinto Marinelli (KREUTZER, 1992a: p. 271).

Synonyms: -

Lithology: Indistinctly bedded loferites and crinoidal debris limestone (KREUTZER, 1992b).

Fossils: Calcareous algae, conodonts, echinoderms, gastropods.

Origin, facies: Marine limestone, neritic unit (Southern Shallow-water Facies).

Chronostratigraphic age: Uppermost Frasnian–Tournaisian.

Biostratigraphy: -

Thickness: 10–20 m.

Lithostratigraphically higher rank unit: -

Lithostratigraphic subdivision: -

Underlying unit(s): Kellergrat Reef Limestone (conformable contact).

Overlying unit(s): Plotta Lydite (unconformable contact); Kronhof Limestone (KREUTZER, 1992a: p. 271).

Lateral unit(s): Kollinkofel Limestone.

Geographic distribution: Carnic Alps.

Remarks: -

Complementary references: SCHÖNLAUB & HISTON (2000), HUBMANN et al. (2003), SCHÖNLAUB et al. (2004).

Kollinkofel-Kalk / Kollinkofel Limestone

THOMAS J. SUTTNER

Validity: Invalid; known since FRECH (1887); facies described by KREUTZER (1990); name was introduced by KREUTZER (1992a: p. 271); included within the summary of the Variscan carbonate sequences in the Carnic Alps (KREUTZER, 1992b).

Type area: ÖK50-UTM, map sheets 3109 Oberdrauburg, 3110 Kötschach-Mauthen, 3116 Sonnenalpe Naßfeld (ÖK50-BMN, map sheet 197 Kötschach).

Type section: -

Reference section(s): North-eastern mountain cliffs and southern wall of the Kollinkofel (KREUTZER, 1992a), N 46°36'26" / E 12°54'19".

Derivation of name: After Mount Kollinkofel (KREUTZER, 1992a: p. 271).

Synonyms: Unteres Oberdevon am Kollinkofel (FRECH, 1887: p. 700); dunkle Rhynchonellenkalke (KREUTZER, 1992a).

Lithology: Dark brachiopod-rich limestone (rhynchonellids) with sparry lithoclastic layers (KREUTZER, 1992b: p. 32).

Fossils: Brachiopods, conodonts, echinoderms.

Origin, facies: Marine limestone, neritic unit (Southern Shallow-water Facies).

Chronostratigraphic age: Uppermost Frasnian–Famennian.

Biostratigraphy: *gigas* to *postera* conodont zones (KREUTZER, 1990, 1992a).

Thickness: > 40 m.

Lithostratigraphically higher rank unit: -

Lithostratigraphic subdivision: -

Underlying unit(s): Kellergrat Reef Limestone (conformable contact).

Overlying unit(s): -

Lateral unit(s): Marinelli Limestone, Pal Limestone.

Geographic distribution: Carnic Alps.

Remarks: -

Complementary references: VAI (1998), SCHÖNLAUB & HISTON (2000), SCHÖNLAUB et al. (2004).

Kronhof-Kalk / Kronhof Limestone

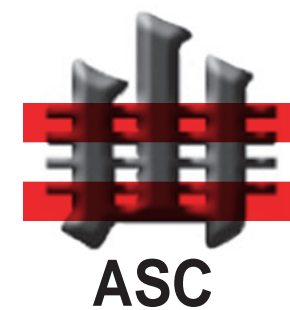
THOMAS J. SUTTNER, ERIKA KIDO

Validity: Invalid; first described by SCHÖNLAUB (1969b, 1985a); mapped by KREUTZER & SCHÖNLAUB (1984); includ-

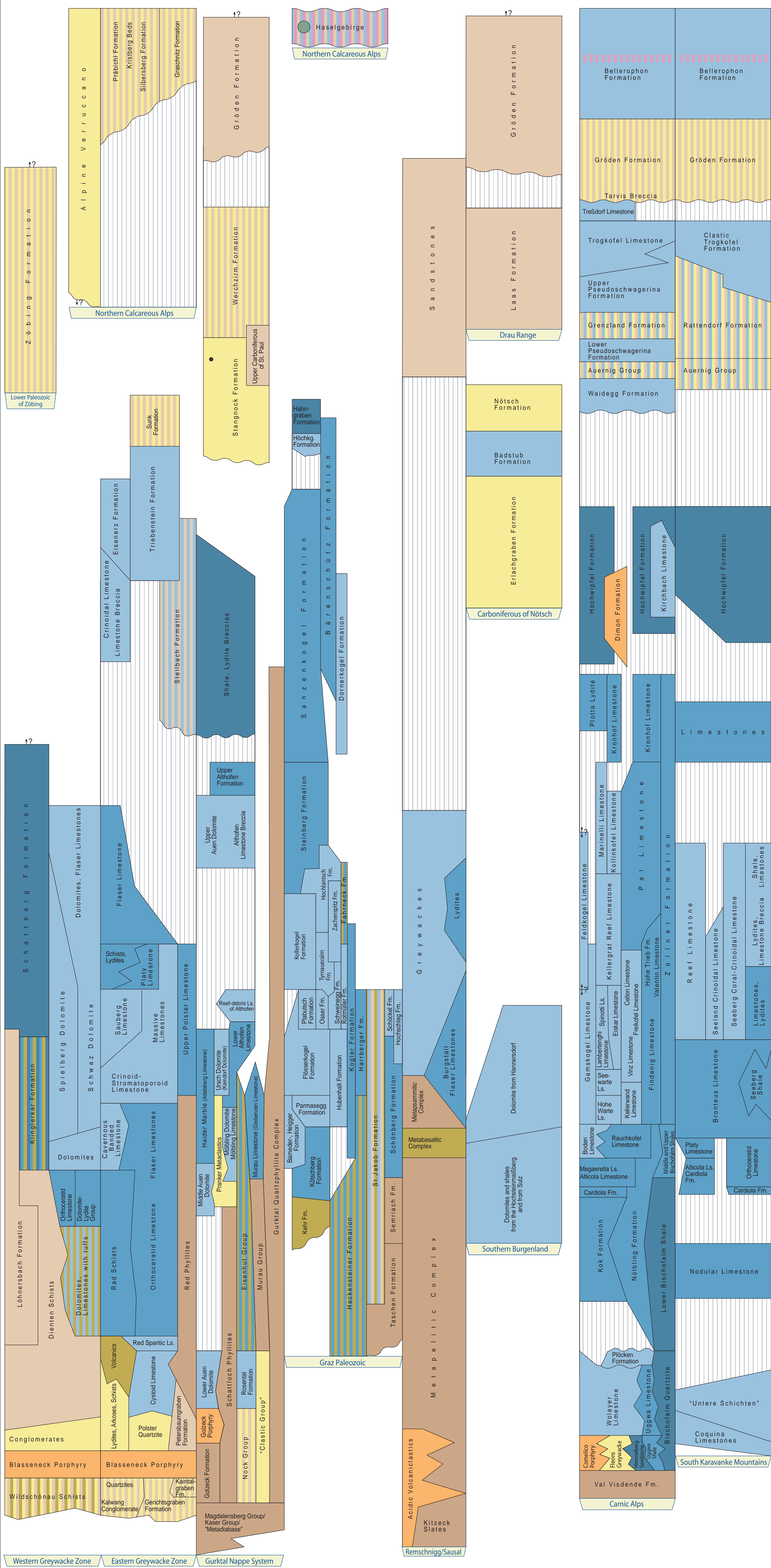
Austrian Stratigraphic Chart 2004 - Paleozoic

(sedimentary successions)

Austrian Stratigraphic Commission



ERA	SYSTEM / PERIOD / SERIES / EPOCH	STAGE / AGE	DURATION Ma	Global Classification					
				ERATHEM / ERA	SYSTEM / PERIOD / SERIES / EPOCH				
PALEOZOIC	PERMIAN	CHANGHSINGIAN / Dorashanian	251	MID PERMIAN U. PERMIAN / GUADALUPIAN / LOPINGIAN	48				
		WUCHIAPINGIAN / Dufuflian	255						
		CAPITANIAN	260						
		WORDIAN	265						
		ROADIAN	270						
		PERMIAN	KUNGURIAN			275	LOWER PERMIAN / CISURALIAN		
			ARTINSKIAN			280			
			SAKMARIAN			285			
			ASSELIAN			290			
		PERMIAN	TRIAS			GZHELIAN	295	U. CARBONIFEROUS / PENNSYLVANIAN	60.2
KASIMOVIAN	300								
MOSKOVIAN	305								
BASHKIRIAN	310								
PERMIAN	SERPUKHOVIAN			315	LOWER CARBONIFEROUS / MISSISSIPPIAN				
	VISEAN			320					
	TOURNAISIAN			325					
PERMIAN	DEVONIAN			FAMENNIAN	350	UPPER DEVONIAN	359.2		
				FRASNIAN	355				
				GIVETIAN	360				
		EIFELIAN	365						
		DEVONIAN	EMSIAN	370	MIDDLE DEVONIAN				
			LOCHKOVIAN	375					
		PERMIAN	DEVONIAN	PRAGIAN	380			LOWER DEVONIAN	56.8
				LOCHKOVIAN	385				
				LOCHKOVIAN	390				
				LOCHKOVIAN	395				
LOCHKOVIAN	400								
LOCHKOVIAN	405								
LOCHKOVIAN	410								
LOCHKOVIAN	415								
LOCHKOVIAN	420								
LOCHKOVIAN	425								
PERMIAN	DEVONIAN	WEN-LUD-LOCKLOW	430	UPPER ORDOVICIAN	27.7				
		HOMERIAN	435						
		SHEINWOOD	440						
		TELYCHIAN	445						
		AERONIAN	450						
		RHUDDANIAN	455						
		HIRNANTIAN	460						
		ORDOVICIAN	465						
		ORDOVICIAN	470						
		ORDOVICIAN	475						
PERMIAN	DEVONIAN	TREMACIAN	480	MIDDLE ORDOVICIAN	44.6				
		DARRIWILIAN	485						
		DARRIWILIAN	490						
		DARRIWILIAN	495						
		DARRIWILIAN	500						
		DARRIWILIAN	505						
		DARRIWILIAN	510						
		DARRIWILIAN	515						
		DARRIWILIAN	520						
		DARRIWILIAN	525						
PERMIAN	DEVONIAN	PAIBIAN	530	UPPER CAMBRIAN	53.7				
		PAIBIAN	535						
		PAIBIAN	540						
		PAIBIAN	545						
		PAIBIAN	550						
		PAIBIAN	555						
		PAIBIAN	560						
		PAIBIAN	565						
		PAIBIAN	570						
		PAIBIAN	575						



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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