

Lateral unit(s): Hohe Warte Limestone, Seewarte Limestone, Findenig Limestone.

Geographic distribution: Carnic Alps.

Remarks: -

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

Findenig-Kalk / Findenig Limestone

THOMAS J. SUTTNER, ERIKA KIDO

Validity: Invalid; limestone deposits of Mount Findenig are well studied by PÖLSLER (1969a); facies analysis of Findenig Limestone is provided from Oberbuchach and Findenigkofel by SCHÖNLAUB (1985b: p. 357) and SCHÖNLAUB et al. (2004: p. 24); a summary of the unit is given by KREUTZER (1992b: p. 28).

Type area: ÖK50-UTM, map sheets 3109 Oberdrauburg, 3110 Kötschach-Mauthen, 3111 Spittal an der Drau, 3116 Sonnenalpe Naßfeld, 3117 Nötsch im Gailtal (ÖK50-BMN, map sheets 197 Kötschach, 198 Weißbriach, 199 Herma-gor).

Type section: -

Reference section(s): Mount Findenig (N 46°35'42" / E 13°06'14"), Rauchkofel Boden section, Valentintörl section, Oberbuchach II, Hoher Trieb, Seekopf, Monte Zermula (see VAI, 1980: p. 80; SCHÖNLAUB, 1985b: p. 357; SCHÖNLAUB et al., 2004: p. 24, 28).

Derivation of name: After Mount Findenig.

Synonyms: Grauer und rother Kramenzelkalk (FRECH, 1894b: p. 227); fleischrote oder lichtgraue, plattige Netzkalke (GEYER, 1903); graue und rote Netzkalke (SPITZ, 1909); Devonischer Netzkalk mit Goniatiten (GAERTNER, 1931); Netzkalke mit Goniatiten (HABERFELNER & HERITSCH, 1932b); 'Roter Flaser- und Knollenkalk' (BANDEL, 1974: p. 96); reddish nodular limestone (SCHÖNLAUB, 1980b).

Lithology: Red flaser and nodular limestone (HUBMANN et al., 2003: p. 34).

Fossils: Cephalopods, conodonts, foraminifers, ostracods, tentaculites (dacryoconarids; SCHÖNLAUB et al., 2004: p. 53).

Origin, facies: Marine limestone, pelagic unit (Pelagic Carbonate Facies).

Chronostratigraphic age: Pragian–Emsian.

Biostratigraphy: *serratus* and *kitabicus* conodont zones (PÖLSLER, 1969b).

Thickness: 40–60 m.

Lithostratigraphically higher rank unit: -

Lithostratigraphic subdivision: -

Underlying unit(s): Boden Limestone (conformable contact), Nöbling Formation (conformable contact), Middle and Upper Bischofalm Shale (conformable contact).

Overlying unit(s): Hohe Trieb Formation (conformable contact), Valentin Limestone (conformable contact).

Lateral unit(s): Kellerwand Limestone, Vinz Limestone, Zollner Formation.

Geographic distribution: Carnic Alps.

Remarks: -

Complementary references: PÖLSLER (1969b), BANDEL & BECKER (1975), RANTITSCH (1992a), FERRETTI et al. (1999), HISTON et al. (1999), SCHÖNLAUB & HISTON (2000).

Zollner-Formation / Zollner Formation

THOMAS J. SUTTNER, ERIKA KIDO

Validity: Valid (SCHÖNLAUB, 1985a: p. 44); detailed facies description by SCHÖNLAUB & HISTON (2000) and SCHÖNLAUB et al. (2004).

Type area: ÖK50-UTM, map sheets 3109 Oberdrauburg, 3110 Kötschach-Mauthen, 3111 Spittal an der Drau, 3116 Sonnenalpe Naßfeld, 3117 Nötsch im Gailtal (ÖK50-BMN, map sheets 197 Kötschach, 198 Weißbriach, 199 Herma-gor).

Type section: Section near Lake Zollner (N 46°36'18" / E 13°04'11").

Reference section(s): Gundesheim Alm road (Oberbuchach section), Findenig, Hoher Trieb, southern side of Hohe Warte, Dellach Alm, Kronhof- and Nöblinggraben (SCHÖNLAUB, 1969a).

Derivation of name: After Lake Zollner (SCHÖNLAUB, 1985a: p. 78).

Synonyms: -

Lithology: Greyish green lydites and siliceous shales.

Fossils: Conodonts, radiolarians (SCHÖNLAUB, 1985a: p. 44).

Origin, facies: Marine, pelagic unit (Distal Siliciclastic Facies).

Chronostratigraphic age: Lochkovian–Tournaisian (regarding to the age constraint, the reader is referred to SCHÖNLAUB & HISTON, 2000: p. 23 and SCHÖNLAUB et al., 2004).

Biostratigraphy: -

Thickness: > 100 m.

Lithostratigraphically higher rank unit: -

Lithostratigraphic subdivision: -

Underlying unit(s): Middle and Upper Bischofalm Shale (conformable contact).

Overlying unit(s): Hochwipfel Formation (unconformable contact).

Lateral unit(s): Findenig Limestone, Valentin Limestone, Pal Limestone, Kronhof Limestone.

Geographic distribution: Carnic Alps.

Remarks: -

Complementary references: SCHÖNLAUB (1969a, 1991), HERZOG (1988), VAI (1998), SCHÖNLAUB & HISTON (1999), MADER & NEUBAUER (2004), VENTURINI (2006).

Seewarte-Kalk / Seewarte Limestone

THOMAS J. SUTTNER, ERIKA KIDO

Validity: Invalid; first mentioned by STACHE (1884); the diverse gastropod fauna of this unit was first observed in the rubble of the Seewarte by SPITZ (1907); detailed description is given by KREUTZER (1990: p. 295); later included within the summary of the Variscan carbonate sequences in the Carnic Alps (KREUTZER, 1992b: p. 28).

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 / Dorashamian	251	PERMIAN	MID PERMIAN / GUADALUPIAN				
		WUCHIAPINGIAN / Dufallian	255						
		CAPITANIAN	260						
		WORDIAN	265						
		ROADIAN	270						
		PERMIAN	LOWER PERMIAN / CISURALIAN			KUNGURIAN	275		
						ARTINSKIAN	280		
						SAKMARIAN	285		
						ASSELIAN	290		
		PERMIAN	UPPER PERMIAN / PENNSYLVANIAN			GZHELIAN	295	PERMIAN	LOWER PERMIAN / CISURALIAN
KASIMOVIAN	300								
MOSKOVIAN	305								
BASHKIRIAN	310								
PERMIAN	LOWER PERMIAN / CISURALIAN			SERPUKHOVIAN	315				
				VISEAN	320				
				TOURNAISIAN	325				
PERMIAN	UPPER PERMIAN / DEVONIAN			FAMENNIAN	330	PERMIAN	UPPER PERMIAN / DEVONIAN		
				FRASNIAN	335				
				GIVETIAN	340				
		EIFELIAN	345						
		PERMIAN	LOWER PERMIAN / DEVONIAN	EMSIAN	350				
				LOCHKOVIAN	355				
		PERMIAN	UPPER PERMIAN / DEVONIAN	LUDFORDIAN / GORSTIAN	359.2			PERMIAN	UPPER PERMIAN / DEVONIAN
				HOMERIAN / SHEINWOOD	365				
				TELYCHIAN	370				
				AERONIAN	375				
RHUDDANIAN	380								
PERMIAN	LOWER PERMIAN / DEVONIAN			HIRNANTIAN	385				
				LLANDOVERY	390				
PERMIAN	UPPER PERMIAN / DEVONIAN			WEN-LUD-LOCK	395	PERMIAN	UPPER PERMIAN / DEVONIAN		
				PRAGIAN	400				
				LOCHKOVIAN	405				
		EMSIAN	410						
		PERMIAN	LOWER PERMIAN / DEVONIAN	Zlichovian	415				
				DALEJIAN	420				
		PERMIAN	UPPER PERMIAN / DEVONIAN	WEN-LUD-LOCK	427			PERMIAN	UPPER PERMIAN / DEVONIAN
				PRAGIAN	430				
				LOCHKOVIAN	435				
				EMSIAN	440				
PERMIAN	LOWER PERMIAN / DEVONIAN			Zlichovian	443.7				
				DALEJIAN	445				
PERMIAN	UPPER PERMIAN / DEVONIAN			WEN-LUD-LOCK	447	PERMIAN	UPPER PERMIAN / DEVONIAN		
				PRAGIAN	450				
				LOCHKOVIAN	455				
				EMSIAN	460				
		PERMIAN	LOWER PERMIAN / DEVONIAN	Zlichovian	464.6				
				DALEJIAN	470				
		PERMIAN	UPPER PERMIAN / DEVONIAN	WEN-LUD-LOCK	475			PERMIAN	UPPER PERMIAN / DEVONIAN
				PRAGIAN	480				
				LOCHKOVIAN	485				
				EMSIAN	490				
PERMIAN	LOWER PERMIAN / DEVONIAN			Zlichovian	495				
				DALEJIAN	500				
PERMIAN	UPPER PERMIAN / DEVONIAN			WEN-LUD-LOCK	505	PERMIAN	UPPER PERMIAN / DEVONIAN		
				PRAGIAN	510				
				LOCHKOVIAN	515				
				EMSIAN	520				
		PERMIAN	LOWER PERMIAN / DEVONIAN	Zlichovian	525				
				DALEJIAN	530				
		PERMIAN	UPPER PERMIAN / DEVONIAN	WEN-LUD-LOCK	535			PERMIAN	UPPER PERMIAN / DEVONIAN
				PRAGIAN	540				
				LOCHKOVIAN	545				
				EMSIAN	550				
PERMIAN	LOWER PERMIAN / DEVONIAN			Zlichovian	553.7				
				DALEJIAN	557				



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

The Austrian Stratigraphic Chart 2004 - Paleozoic is a supplement of:
 Hubmann, B., Ebner, F., Ferretti, A., Kido, E., Krainer, K., Neubauer, F., Schönlaub, H.-P. & Suttner, T.J. (2014): The Paleozoic Era (them), 2nd edition. - In: Pillner, W.E. (Ed.): The lithostratigraphic units of the Austrian Stratigraphic Chart 2004 (sedimentary successions) - Vol. 1 - Abhandlungen der Geologischen Bundesanstalt, 66, 9-133, Wien.

Printing: Graßl Druck & Neue Medien GmbH, Bad Vöslau 2014

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