

**Lateral unit(s):** -

**Geographic distribution:** W-GWZ; Tyrol, Salzburg; Kitzbüheler Alpen, Dientener Berge, N Pongau.

**Remarks:** MOSTLER (1968) subdivided the Wildschönau Schists by the intercalation of the Blasseneck Porphyry into Lower and Upper Wildschönau Schists. In the ASC 2004 the Wildschönau Schists represent only the Lower Wildschönau Schists. Due to the lack of detailed mapping and biostratigraphy the Wildschönau Schists of the Tyrolian Wildschönau – Kitzbühel area cannot be linked easily with the siliciclastics around Saalbach – Zell am Zee (Salzburg) where HEINISCH (1986) differentiated several Silurian/Devonian formations (Löhnersbach, Schattberg and Klinglerkar Formations) in domains previously assigned to Wildschönau Schists. W of Zell am See they are part of the Glemmtal Unit (HEINISCH, 1986).

**Complementary references:** OHNESORGE (1905), MOSTLER (1970), TOLLMANN (1977), SCHÖNLAUB (1979, 1980a), HEINISCH (1988), HEINISCH et al. (1987), SCHLAEGEL (1988), EBNER et al. (1989).

### **Blasseneck Porphyroid / Blasseneck Porphyry**

(description see E-GWZ)

### **Löhnersbach-Formation / Löhnersbach Formation**

FRITZ EBNER

**Validity:** Valid; formal description by HEINISCH et al. (1987).

**Type area:** ÖK50-UTM, map sheet 3221 Zell am See (ÖK50-BMN, map sheet 123 Zell am See).

**Type section:** Southern parts of the Löhnersbachtal, W of Zell am See, NE of Klingler Törl (N 47°19'45" / E 12°37'17"); ÖK50-UTM, map sheet 3221 Zell am See (ÖK50-BMN, map sheet 123 Zell am See) (HEINISCH et al., 1987).

**Reference section(s):** -

**Derivation of name:** After the Löhnersbach valley in the Kitzbüheler Alpen ca. 11 km WNW of Zell am See (ÖK50-UTM, map sheet 3221 Zell am See; ÖK50-BMN, map sheet 123 Zell am See).

**Synonyms:** Partim the "Höhere Wildschönauer Schiefer" (MOSTLER, 1968).

**Lithology:** Alternation of phyllites, metasiltstones and metasandstones. Within this sequence the average content of metasandstones is ~50 %. Wide areas are dominated by thin-bedded metasiltstones. Turbidite Bouma sequences are differently complete (HEINISCH, 1986).

**Fossils:** -

**Origin, facies:** Basinal distal turbidite facies (distal channel facies of deep sea fans; HEINISCH et al., 1987).

**Chronostratigraphic age:** Lower Silurian–Emsian (HEINISCH et al., 1987).

**Biostratigraphy:** -

**Thickness:** Max. 1,300 m (HEINISCH, 1988).

**Lithostratigraphically higher rank unit:** Wildschönau Group (sensu SCHÖNLAUB & HEINISCH, 1993).

**Lithostratigraphic subdivision:** -

**Underlying unit(s):** Uppermost Ordovician–lower Silurian epiclastic porphyroid materials interpreted as equivalents or reworked parts of the Blasseneck Porphyry (HEINISCH & SCHÖNLAUB, 1993).

**Overlying unit(s):** Klinglerkar Formation (HEINISCH, 1988) and the Metabasite Group (HEINISCH, 1988; SCHLAEGEL-BLAUT, 1990; HEINISCH et al., 1995, 2003).

**Lateral unit(s):** In upper parts lower parts of the Klinglerkar Formation (SCHLAEGEL-BLAUT, 1990; HEINISCH, 1988).

**Geographic distribution:** W-GWZ; Tyrol, Salzburg, Kitzbüheler Alpen.

**Remarks:** This lithostratigraphic unit was proposed as a formation because MOSTLER's (1968) subdivision in Lower and Upper Wildschönau Shales is not applicable for the siliciclastic domains (Glemmtal Unit sensu HEINISCH, 1988) W of Zell am See (HEINISCH et al., 1987).

**Complementary references:** EBNER et al. (1989, 2008), SCHÖNLAUB & HEINISCH (1993).

### **Dienten-Schiefer / Dienten Schists**

FRITZ EBNER

**Validity:** Invalid; used for a long time in terms of a formation but not formalized.

**Type area:** Dientener Berge (ÖK50-UTM, map sheet 3221 Zell am See; ÖK50-BMN, map sheet 124 Saalfelden; ÖK50-UTM, map sheet 3222 St. Johann im Pongau; ÖK50-BMN, map sheet 125 Bischofshofen).

**Type section:** No type section is specified in the literature.

**Reference section(s):** -

Remarks: First descriptions (AIGNER, 1931; MOSTLER, 1966a) are related to the Lachtal-Grundalm SW Fieberbrunn (ÖK50-UTM, map sheet 3214 Kitzbühel; ÖK50-BMN, map sheet 122 Kitzbühel) and to the magnesite mine at Entachenalm (ÖK50-UTM, map sheet 3221 Zell am See; ÖK50-BMN, map sheet 124 Saalfelden) (FRIEDRICH & PELTZMANN, 1937).

**Derivation of name:** After the village of Dienten (N 47°23'04" / E 13°00'15"); ÖK50-UTM, map sheet 3221 Zell am See (ÖK50-BMN, map sheet 124 Saalfelden).

**Synonyms:** "Dientener Schiefer", partim: "Höhere Wildschönauer Schiefer" (MOSTLER, 1968; TOLLMANN, 1977).

**Lithology:** Black, alumnian and siliceous schists and lydite with some intercalations of bituminous limestone. Typical black Dienten Schists develop by the increase of black organic matter from light grey and much more sandy phyllite (Pinzgauer Phyllit = equivalent of the Wildschönau Schists; MOSTLER, 1968).

**Fossils:** Entachenalm and Lachtal-Grundalm: graptolites (HAIDEN, 1936; FRIEDRICH & PELTZMANN, 1937; JAEGER, 1978). Nagelschmidpalven/Dienten: bivalves, nautiloids (HAUER, 1847; STACHE, 1879; HERITSCH, 1929).

**Origin, facies:** Partly euxinic basin.

**Chronostratigraphic age:** Llandovery–middle Ludlow.

**Biostratigraphy:** Graptolite zones 27–29, 33 and 34/35 (JAEGER, 1978).

**Thickness:** Up to 200 m.

**Lithostratigraphically higher rank unit:** -

**Lithostratigraphic subdivision:** -

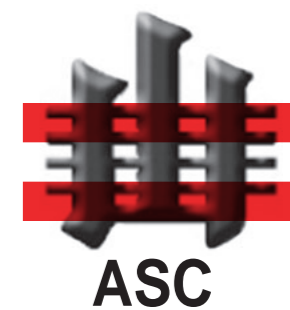
**Underlying unit(s):** Conglomerates.

**Overlying unit(s):** Dolomite Lydite Group (MOSTLER, 1968; SCHÖNLAUB, 1979, 1980a).

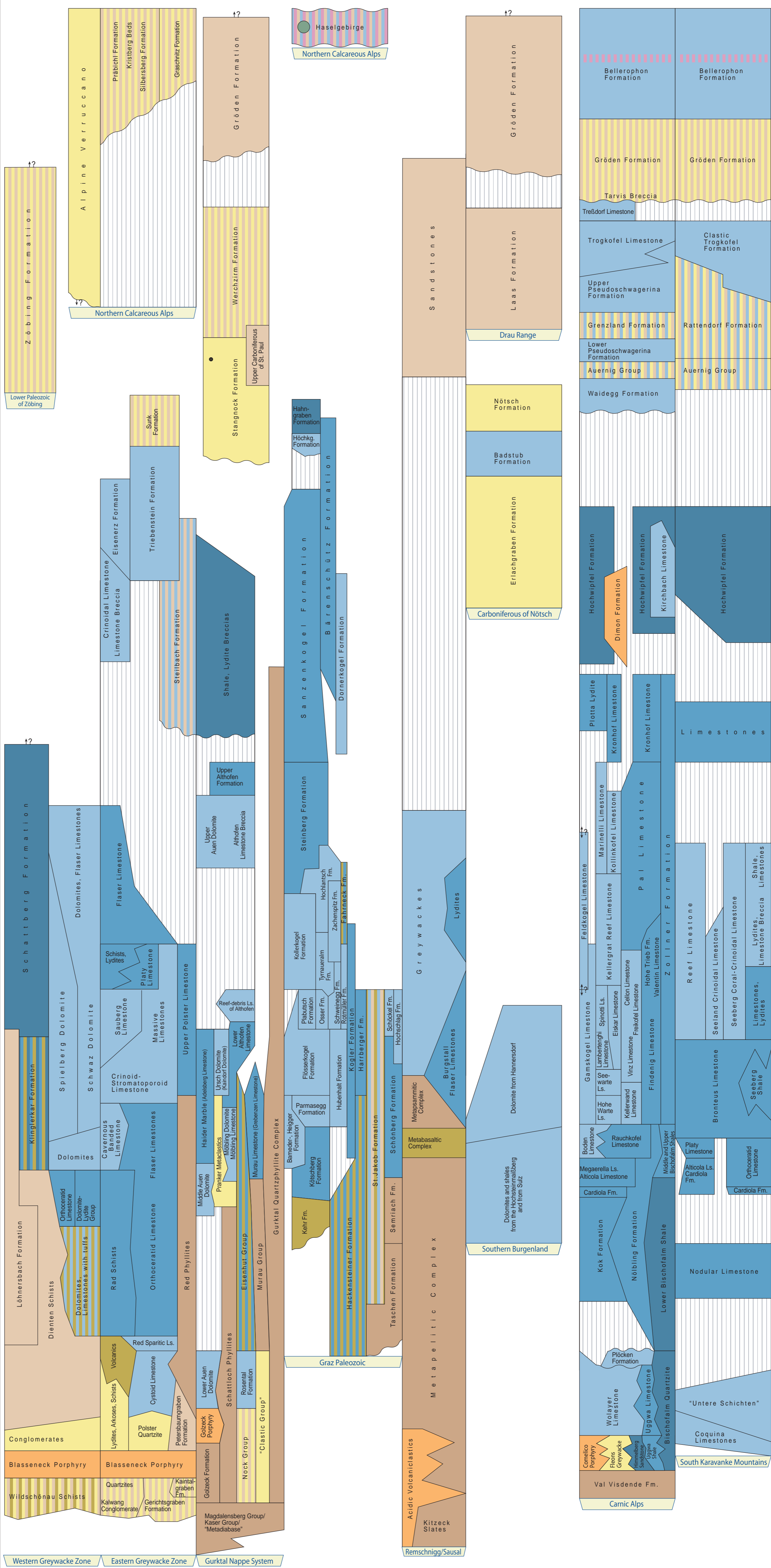
# Austrian Stratigraphic Chart 2004 - Paleozoic

(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	TRIAS			GZHELIAN	295	TRIAS	U. CARBONIFEROUS / PENNSYLVANIAN
KASIMOVIAN	300								
MOSKOVIAN	305								
BASHKIRIAN	310								
PERMIAN	LOWER CARBONIFEROUS / MISSISSIPPIAN			SERPUKHOVIAN	315				
				VISEAN	320				
				TOURNAISIAN	325				
PERMIAN	DEVONIAN			FAMENNIAN	330	DEVONIAN	UPPER DEVONIAN		
				FRASNIAN	335				
				GIVETIAN	340				
		EIFELIAN	345						
		DEVONIAN	LOWER DEVONIAN	EMSIAN	350				
				PRAGIAN	355				
				LOCHKOVIAN	359.2				
		PERMIAN	DEVONIAN	LUDFORDIAN / GORSTIAN	365			DEVONIAN	MIDDLE DEVONIAN
				HOMERIAN / SHEINWOOD	370				
				TELYCHIAN	375				
AERONIAN	380								
RHUDDANIAN	385								
PERMIAN	UPPER ORDOVICIAN			HIRNANTIAN	390				
				DARRIWILIAN	395				
				TREMA-DOCIAN	400				
PERMIAN	CAMBRIAN			PAIBIAN	405	CAMBRIAN	UPPER CAMBRIAN		
				CAMBRIAN	MIDDLE CAMBRIAN				
		415							
		420							
		CAMBRIAN	LOWER CAMBRIAN	425					
				430					
				435					
				440					
		PALEOZOIC	PERMIAN	443.7	PERMIAN			LOWER PERMIAN / CISURALIAN	
				445					
450									
455									
460									
465									
470									
475									
480									
485									
488.3									
PALEOZOIC	PERMIAN	490	PERMIAN	LOWER PERMIAN / CISURALIAN					
		495							
		500							
		505							
		510							
		515							
		520							
		525							
		530							
		535							
PALEOZOIC	PERMIAN	540	PERMIAN	LOWER PERMIAN / CISURALIAN					
		542							



- 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), 2<sup>nd</sup> edition. - In: Piller, 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: Grasl Druck & Neue Medien GmbH, Bad Vöslau 2014