

## Burgstaller Flaserkalke / Burgstall Flaser Limestones

BERNHARD HUBMANN

**Validity:** Invalid; first mentioned by DREGER (1905), a comprehensive description by SCHLAMBERGER (1987: p. 60; "Karbonatkomplex vom Grillkogel").

**Type area:** ÖK50-UTM, map sheet 4111 Leibnitz (ÖK50-BMN, map sheet 207 Arnfels).

**Type section:** No type section defined; SCHLAMBERGER (1987) presents a section of the quarry "Grillkogel" (458 m; N 46°44'52" / E 15°24'09").

**Reference section(s):** Further occurrences of limestones are recorded from the vicinity of the village Burgstall (N 46°44'40" / E 15°24'36") especially on the southern slope of the Grillkogel.

**Derivation of name:** After the village Burgstall.

**Synonyms:** Partly: Kalke des Burgstallkogels (DREGER, 1905; SCHIMUNEK, 1958; HERITSCH, 1943); Flaser- und Crinoidenkalke des Burgstallkogels (SCHÖNLAUB, 1979).

**Lithology:** Light grey dolostones, crinoidal limestones (sometimes intercalated with black marly slates), brownish flaser limestones with colored clay lenses ("colorful limestones") and lydites.

**Fossils:** Conodonts, badly preserved tentaculites.

**Origin, facies:** Pelagic environment.

**Chronostratigraphic age:** Pragian–Emsian (up to Givetian?) (BUGGISCH et al., 1975).

**Biostratigraphy:** -

**Thickness:** Strong variation in thickness; approx. 80 m.

**Lithostratigraphically higher rank unit:** -

**Lithostratigraphic subdivision:** -

**Underlying unit(s):** Metabasaltic Complex.

**Overlying unit(s):** Greywackes.

**Lateral unit(s):** ?Greywackes.

**Geographic distribution:** Sausal region, ?Remschnigg; ÖK50-BMN, map sheets 190 Leibnitz, 207 Arnfels.

**Remarks:** DREGER (1905) described the finding of a *Favosites* (now lost!) within crinoidal limestones and assumed a Devonian age. Following the description of SCHLAMBERGER (1987) of the Grillkogel quarry dolostones are unconformably overlain by a sequence of crinoidal limestones, "colorful limestones" and flaser limestones. After a fault lydites unconformably terminate the section.

**Complementary references:** -

## Grauacke / Greywackes

BERNHARD HUBMANN

**Validity:** Invalid; collective term for very bad exposed rocks above the Devonian calcareous sequence in the Sausal – Remschnigg area.

**Type area:** ÖK50-UTM, map sheet 4111 Leibnitz (ÖK50-BMN, map sheet 207 Arnfels).

**Type section:** No section cited in the literature.

**Reference section(s):** -

**Derivation of name:** After the predominant lithology of strata overlying the phyllitic successions and crinoidal limestones respectively.

**Synonyms:** Partly: Scholle von Heiligengeist (WINKLER-HERMADEN, 1933), Grauacke (SCHÖNLAUB, 1979).

**Lithology:** Various fine-grained siliciclastic rocks including dark colored mica-rich argillaceous slates and sandstones (see FLÜGEL & NEUBAUER, 1984).

**Fossils:** Unknown.

**Origin, facies:** ?

**Chronostratigraphic age:** Devonian (?Carboniferous).

**Biostratigraphy:** -

**Thickness:** Strong variation; presumably several tens of meters.

**Lithostratigraphically higher rank unit:** -

**Lithostratigraphic subdivision:** -

**Underlying unit(s):** ?Burgstall Flaser Limestones and rocks of the Metapsammitic Complex.

**Overlying unit(s):** -

**Lateral unit(s):** -

**Geographic distribution:** Remschnigg, ?Sausal region; ÖK50-BMN, map sheets 190 Leibnitz, 207 Arnfels.

**Remarks:** -

**Complementary references:** -

## Lydite / Lydites

BERNHARD HUBMANN

**Validity:** Invalid; restricted to very small occurrences in the Remschnigg area only.

**Type area:** ÖK50-UTM, map sheet 4111 Leibnitz (ÖK50-BMN, map sheet 207 Arnfels).

**Type section:** HERITSCH (1933b) and WINKLER-HERMADEN (1933) reported isolated outcrops in the western part of the Altenbachgraben (N 46°40'18" / E 15°20'54").

**Reference section(s):** WINKLER-HERMADEN (1933) described an additional occurrence at Heiligengeistklamm – Jarzkogl (N 46°37'55" / E 15°28'09").

**Remarks:** Due to bad exposure the position of the lydites is not clear. HERITSCH (1933b) mentioned some possible connections with coral-bearing crinoidal limestones of the Remschnigg area.

**Derivation of name:** After the dominant lithology (lydite = Paleozoic chert) of the unit.

**Synonyms:** Kieselschiefer und Lydite (HERITSCH, 1933b); partly: Scholle von Altenbach (WINKLER-HERMADEN, 1933).

**Lithology:** Siliceous cherts (lydites).

**Fossils:** Unknown.

**Origin, facies:** ?

**Chronostratigraphic age:** (?)Upper Devonian.

**Biostratigraphy:** -

**Thickness:** Unknown.

**Lithostratigraphically higher rank unit:** -

**Lithostratigraphic subdivision:** -

**Underlying unit(s):** Unknown; crinoidal limestones? (= ?Burgstall Flaser Limestones).

**Overlying unit(s):** Greywackes (?).

**Lateral unit(s):** -

# 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 / Dufuflian	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 / MISSISSIPPIAN			TOURNAISIAN	330	PERMIAN	LOWER PERMIAN / MISSISSIPPIAN					
				335								
				340								
		345										
		350										
		355										
		359.2										
		365										
		370										
		375										
PERMIAN	UPPER DEVONIAN	FAMENNIAN	359.2	PERMIAN	UPPER DEVONIAN							
		FRASNIAN	365									
		GIVETIAN	370									
		EIFELIAN	375									
		DALEJIAN	380									
		EMSIAN	385									
		ZILCHOVIAN	390									
		PRAGIAN	395									
		LOCHKOVIAN	400									
		405										
PERMIAN	LOWER DEVONIAN	LOCHKOVIAN	405	PERMIAN	LOWER DEVONIAN							
		410										
		415										
		420										
		425										
		430										
		435										
		440										
		443.7										
		445										
PERMIAN	UPPER ORDOVICIAN	HIRNANTIAN	443.7	PERMIAN	UPPER ORDOVICIAN							
		445										
		450										
		455										
		460										
		465										
		470										
		475										
		480										
		484.6										
PERMIAN	MIDDLE ORDOVICIAN	DARRIWILIAN	484.6	PERMIAN	MIDDLE ORDOVICIAN							
		490										
		495										
		500										
		505										
		510										
		515										
		520										
		525										
		530										
PERMIAN	LOWER ORDOVICIAN	TREMACIAN	530	PERMIAN	LOWER ORDOVICIAN							
		535										
		540										
		542										
		CAMBRIAN	UPPER CAMBRIAN			PAIBIAN	530	CAMBRIAN	UPPER CAMBRIAN			
						535						
						540						
						542						
						CAMBRIAN	MIDDLE CAMBRIAN			542	CAMBRIAN	MIDDLE CAMBRIAN
										545		
550												
555												
560												
565												
570												
575												
580												
585												
CAMBRIAN	LOWER CAMBRIAN	585	CAMBRIAN	LOWER CAMBRIAN								
		590										
		595										
		600										
		605										
		610										
		615										
		620										
		625										
		630										



- 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

© Commission for the Paleontological and Stratigraphical Research of Austria (CPSA) of the Austrian Academy of Sciences and Austrian Stratigraphic Commission

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

