

WANN, 1929); Chloritschiefer des Bergler Kogel (FLÜGEL, 1957); Stanzberg Serie (GRÄF, 1958); erzführende Serie (WEBER, 1990); Arzberg Schichten (EBNER & WEBER, 1978); Waldstein-Formation (FRITZ, 1991).

Lithology: Alkaline volcanoclastics; sometimes intercalations of dark coloured shales.

Fossils: -

Origin, facies: -

Chronostratigraphic age: Presumably pre-Ludlow.

Biostratigraphy: -

Thickness: Several hundreds of meters.

Lithostratigraphically higher rank unit: Peggau Group (FLÜGEL, 2000).

Lithostratigraphic subdivision: -

Underlying unit(s): Successions of the Passail Group.

Overlying unit(s): Semriach Formation, ?Schönberg Formation.

Lateral unit(s): -

Geographic distribution: Styria, highland in the surroundings of Graz; ÖK50-BMN, map sheets 133 Leoben, 134 Passail, 162 Köflach, 163 Voitsberg, 164 Graz.

Remarks: -

Complementary references: -

St. Jakob-Formation / St. Jakob Formation

BERNHARD HUBMANN

Validity: Valid; first description and nomination by THALHAMMER (1982: "St. Jakob-Gruppe"); formalized by FLÜGEL (2000: p. 11; "St. Jakob-Formation"); change of name into St. Jakob-Formation by EBNER et al. (2000).

Type area: ÖK50-UTM, map sheet 4223 Weiz (ÖK50-BMN, map sheet 134 Passail).

Type section: Not defined, but according to FLÜGEL (2000) the type region is in the vicinity of St. Jakob in Breitenau (N 47°23'05" / E 15°26'11").

Reference section(s): -

Remarks: THALHAMMER (1982) distinguished within the "St. Jakob-Group" three units which were adopted by FLÜGEL (2000) as members of the St. Jakob Formation (see below).

Derivation of name: After the village St. Jakob, 52 km north of Graz.

Synonyms: Carbonschichten der Breitenau (VACEK, 1891); partly: Karbon der Breitenau (FLÜGEL, 1953a); Magnesit der Breitenau (H. FLÜGEL, 1975).

Lithology: Limestones, siliciclastics and alkaline metavolcanites.

Fossils: Conodonts.

Origin, facies: Pelagic environment.

Chronostratigraphic age: Llandovery–Givetian; does not reach up into the Eifelian as indicated in the ASC 2004.

Biostratigraphy: *costatus* Zone and *varcus* Zone.

Thickness: Up to 280 m.

Lithostratigraphically higher rank unit: Laufnitzdorf Group.

Lithostratigraphic subdivision: FLÜGEL (2000) discerned three members:

Aibl Member: Limestones, sandstones, alkaline volcanoclastics; about 180 m in thickness.

Breitenau Member: Magnesites and dolomites; up to 100 m in thickness.

Schattleiten Member: Succession of limestones, argillaceous shales and silt/sandstones; 80–100 m in thickness.

Underlying unit(s): Tectonic contact to Kogler Formation.

Overlying unit(s): Tectonic contact to Kogler Formation.

Lateral unit(s): Unknown because of tectonic boundaries.

Geographic distribution: Styria, highland in the surroundings of Graz; ÖK50-UTM, map sheet 4223 Weiz (ÖK50-BMN, map sheet 134 Passail).

Remarks: -

Complementary references: GOLLNER et al. (1982), FLÜGEL & NEUBAUER (1984).

Semriach-Formation / Semriach Formation

BERNHARD HUBMANN

Validity: Valid; first description by CLAR (1874: "Semriacher Schiefer"); formalized by FLÜGEL (2000: p. 47; Semriacher-Phyllit-Formation); change of name into Semriach-Formation by EBNER et al. (2001).

Type area: ÖK50-UTM, map sheet 4223 Weiz (ÖK50-BMN, map sheet 164 Graz).

Type section: No type section defined, but FLÜGEL (2000) selected a type region at Windhofkogel (1,064 m) east of Semriach (N 47°13'28" / E 15°26'09").

Reference section(s): -

Remarks: Tectonic position of the formation and its relationship to the Rannach Nappe or Schöckel Nappe respectively is not clarified at the moment.

Derivation of name: After Semriach, a small town northeast of Peggau-Deutschfeistritz, approx. 30 km north of Graz.

Synonyms: Semriacher Schiefer (CLAR, 1874); partly: Untere Schiefer (HERITSCH, 1906); Phyllite von Semriach and Phyllite von Passail (SCHWINNER, 1925); Serie der Phyllite (SEEWANN, 1929); Schiefer der Passailer Mulde (H. FLÜGEL, 1975).

Lithology: Sericite phyllites with insertions of green schists; marbles.

Fossils: -

Origin, facies: -

Chronostratigraphic age: Presumably pre-Devonian.

Biostratigraphy: -

Thickness: Presumably several hundreds of meters.

Lithostratigraphically higher rank unit: Passail Group (FLÜGEL, 2000).

Lithostratigraphic subdivision: FLÜGEL (2000) discerned two members:

Hundsberg Member: Coarse grained quartzites and quartzitic slates; 10 to 50 m in thickness.

Rötschgraben Member: White to bluish-white fine-grained marbles; few meters in thickness.

Underlying unit(s): In its southern outcropping area the formation shows a tectonic contact to green schists of the Taschen Formation. North of Plenzengreith a marble ho-

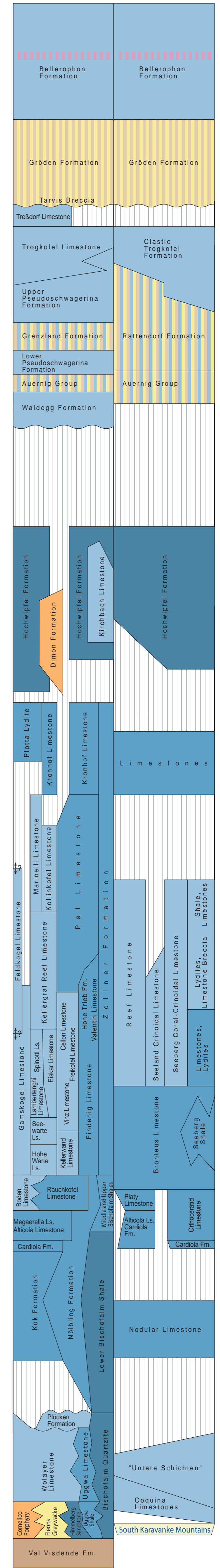
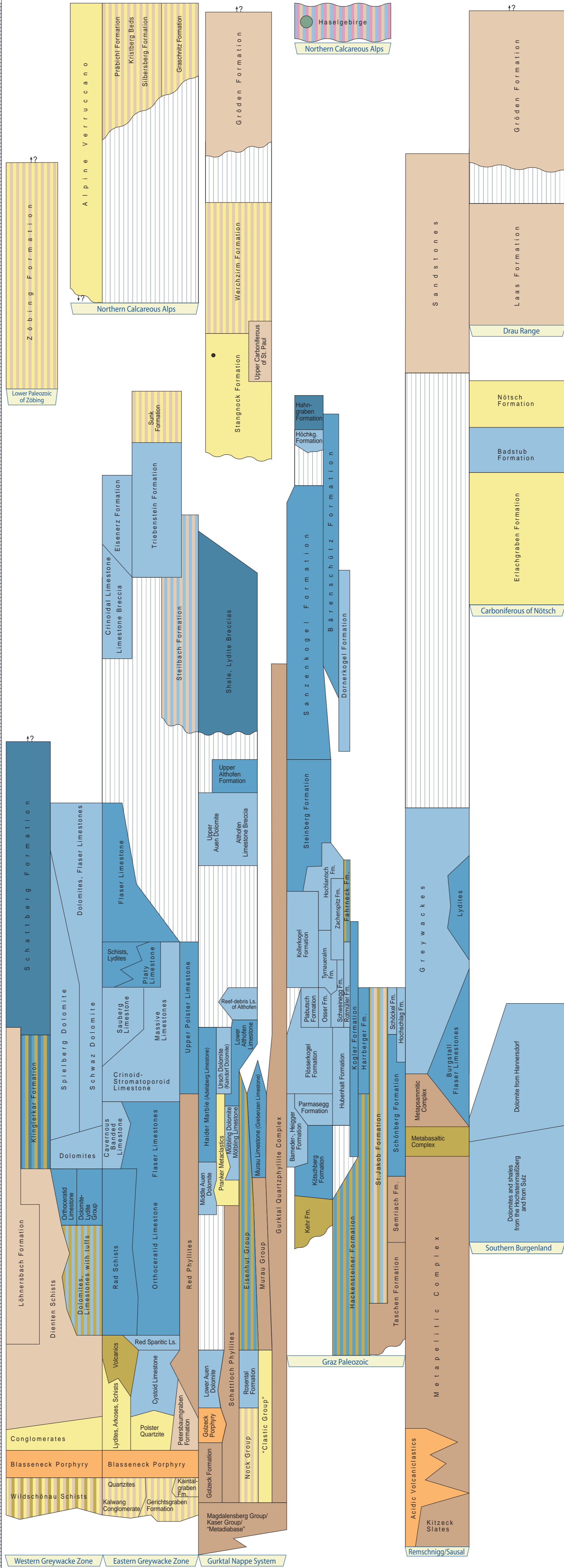
Austrian Stratigraphic Chart 2004 - Paleozoic

(sedimentary successions)

Austrian Stratigraphic Commission



Global Classification		STAGE / AGE	DURATION Ma	
ERATHM / ERA	SYSTEM / PERIOD / SERIES / EPOCH			
PALEOZOIC	PERMIAN	CHANGHSINGIAN / Dorashanian	251	
		WUCHIAPINGIAN / Dzhulfian	255	
		CAPITANIAN	260	
		WORDIAN	265	
		ROADIAN	270	
		LOWER PERMIAN / CISURALIAN	KUNGURIAN	275
			ARTINSKIAN	280
			SAKMARIAN	285
			ASSELIAN	290
		CARBONIFEROUS / MISSISSIPPIAN	GZHELIAN	295
			KASIMOVIAN	300
MOSKOVIAN	305			
BASHKIRIAN	310			
SERPUKHOVIAN	315			
LOWER CARBONIFEROUS / MISSISSIPPIAN	VISEAN		320	
	TOURNAISIAN		325	
	FRANCONIAN		330	
	FRANCONIAN		335	
DEVONIAN	FAMENNIAN		350	
	FRASNIAN	355		
	GIVETIAN	360		
	EIFELIAN	365		
	EMSIAN	370		
	LOWER DEVONIAN	PRAGIAN	375	
		LOCHKOVIAN	380	
		LOCHKOVIAN	385	
	SILURIAN	LUDFORDIAN / GORSTIAN	390	
		HOMERIAN / SHEINWOOD	395	
TELYCHIAN		400		
AERONIAN		405		
RHUDDANIAN		410		
UPPER ORDOVICIAN		HIRNANTIAN	415	
		DARRIWILIAN	420	
		TREMA-DOCIAN	425	
		TREMA-DOCIAN	430	
CAMBRIAN		PAIBIAN	435	
	PAIBIAN	440		
	PAIBIAN	445		
	PAIBIAN	450		
	PAIBIAN	455		



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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