

(DALLMEYER et al., 1992; HANDLER et al., 1999) and the unconformable sedimentary contact between the metamorphics and the conglomerates suggests a post-Middle Devonian age and a position of this conglomerate within the Kaintaleck Nappe of the E-GWZ (NEUBAUER et al., 1994).

**Complementary references:** SCHÖNLAUB (1979, 1980a, 1982a), EBNER et al. (1989), SCHÖNLAUB & HEINISCH (1993).

#### **Gerichtsgraben-Formation / Gerichtsgraben Formation**

FRITZ EBNER

**Validity:** Invalid; first detailed description in the rank of a group by FLAJS & SCHÖNLAUB (1976). In the ASC 2004 this unit was regarded as a formation, it is, however, not formalized.

**Type area:** Präßichl area SE Eisenerz (ÖK50-UTM, map sheet 4215 Eisenerz, ÖK50-BMN, map sheet 101 Eisenerz).

**Type section:** NE flank of Gerichtsgraben SE of Eisenerz (N 47°32'11" / E 14°55'39"; ÖK50-UTM, map sheet 4215 Eisenerz, ÖK50-BMN, map sheet 101 Eisenerz) along the road from Präßichl Pass to Gsollgraben.

**Reference section(s):** -

**Derivation of name:** After the Gerichtsgraben SE of Eisenerz (ÖK50-UTM, map sheet 4215 Eisenerz, ÖK50-BMN, map sheet 101 Eisenerz).

**Synonyms:** Partim "Feinschichtige quarzitische Grauwackenschiefer" (HAMMER, 1925); "Silurdevon" (HIESSLEITNER, 1929), "Gerichtsgraben Gruppe" (FLAJS & SCHÖNLAUB, 1976); partim "Untere Schiefer" (FLAJS & SCHÖNLAUB, 1976); "Schichten unter dem Porphyroid" (DAURER & SCHÖNLAUB, 1978; SCHÖNLAUB, 1982a).

**Lithology:** Uniform grey sericite schists, microfolded phyllitic schists, platy sandstones and schists with detrital mica; subordinate greywacke and graphite schists. Relicts of graded bedding and cross bedding are rare. Intercalations of grey-yellowish and sometimes banded limestones occur especially in three levels along the road from Präßichl to Eisenerz at the NE flank of the Gerichtsgraben. Laterally, they interfinger with metamarls and predominantly dark schists. Other intercalations are banded lydites (FLAJS & SCHÖNLAUB, 1976; SCHÖNLAUB, 1982a).

**Fossils:** Conodonts (FLAJS & SCHÖNLAUB, 1976).

**Origin, facies:** Fine-clastic, sometimes calcareous and euxinic basinal environment.

**Chronostratigraphic age:** Upper Ordovician (Katian) (FLAJS & SCHÖNLAUB, 1976).

**Biostratigraphy:** Conodonts from the limestone intercalations belong to the *Amorphognathoides ordovicicus* Zone (upper Katian–Hirnantian).

**Thickness:** Strong regional variation from 300 m (Polster area; ÖK50-UTM, map sheet 4215 Eisenerz, ÖK50-BMN, map sheet 101 Eisenerz) to > 1,000 m in the Lange Teichen valley (ÖK50-UTM, map sheet 4215 Eisenerz, ÖK50-BMN, map sheet 131 Kalwang).

**Lithostratigraphically higher rank unit:** -

**Lithostratigraphic subdivision:** -

**Underlying unit(s):** Deeper tectonic units of the E-GWZ (Kaintaleck Nappe, Silbersberg Nappe, Veitsch Nappe) (SCHÖNLAUB, 1979; NEUBAUER et al., 1994).

**Overlying unit(s):** Blasseneck Porphyry.

**Lateral unit(s):** Due to the superposition by the Blasseneck Porphyry the sequences around the Präßichl Pass and along the Lange Teichen valley should be at least partly stratigraphic equivalents.

**Geographic distribution:** E-GWZ; Styria, Eisenerzer Alpen.

**Remarks:** In the Präßichl area the strata below the Blasseneck Porphyry were summarized as the Gerichtsgraben Group by FLAJS & SCHÖNLAUB (1976). For a possible position of the Kalwang Conglomerate at the structural base of the Gerichtsgraben Formation see the description of the Kalwang Conglomerate.

**Complementary references:** SCHÖNLAUB (1980a), EBNER et al. (1989), SCHÖNLAUB & HEINISCH (1993).

#### **Quartzite / Quartzites**

FRITZ EBNER

**Remarks:** Metaclastics of the Gerichtsgraben Fm. always include intercalations of metasandstones and quartzites. A prominent occurrence of quartzite as shown in the ASC 2004 is overestimated and therefore not mentioned in Text-Fig. 2.

#### **Kaintalgraben-Formation / Kaintalgraben Formation**

FRITZ EBNER

**Validity:** Invalid; first description as "Kaintal-Porphyroid" by HERMANN (1992) which was later named Kaintalgraben Formation (NEUBAUER et al., 1994).

**Type area:** ÖK50-UTM, map sheet 4216 Bruck an der Mur (ÖK50-BMN, map sheets 132 Trofaiach and 133 Leoben).

**Type section:** Along Kaintalbach valley, ~4.6 km NNE Trofaiach (N 47°26'39" / E 15°04'17"), ÖK50-UTM, map sheet 4216 Bruck an der Mur (ÖK50-BMN, map sheet 132 Trofaiach). In the early literature (HAUSER, 1938) micaschists were described from this location.

**Reference section(s):** -

**Derivation of name:** After the valley Kaintalgraben (ÖK50-UTM, map sheet 4216 Bruck an der Mur, ÖK50-BMN, map sheet 132 Trofaiach).

**Synonyms:** "Kaintal-Porphyroid" (HERMANN, 1992); "Kaintalgraben Porphyroid" (NEUBAUER et al., 1994).

**Lithology:** Light, strongly deformed and mm-laminated porphyroids with porphyroblastic texture (with potassium feldspar, plagioclase and quartz).

**Fossils:** -

**Origin, facies:** Ignimbrite, caused by a pyroclastic density current.

**Chronostratigraphic age:** ?Upper Ordovician.

**Biostratigraphy:** -

**Thickness:** Up to 80 m.

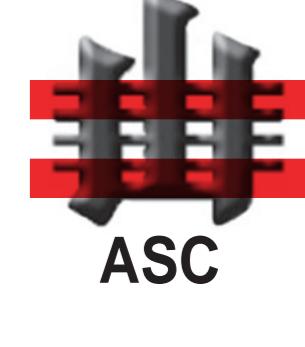
**Lithostratigraphically higher rank unit:** "Norische Gruppe" (invalid) (HERMANN, 1992).

**Lithostratigraphic subdivision:** -

**Underlying unit(s):** Phyllites of the Gerichtsgraben Formation.

# Austrian Stratigraphic Chart 2004 - Paleozoic

## (sedimentary successions)



# Austrian Stratigraphic Commission

