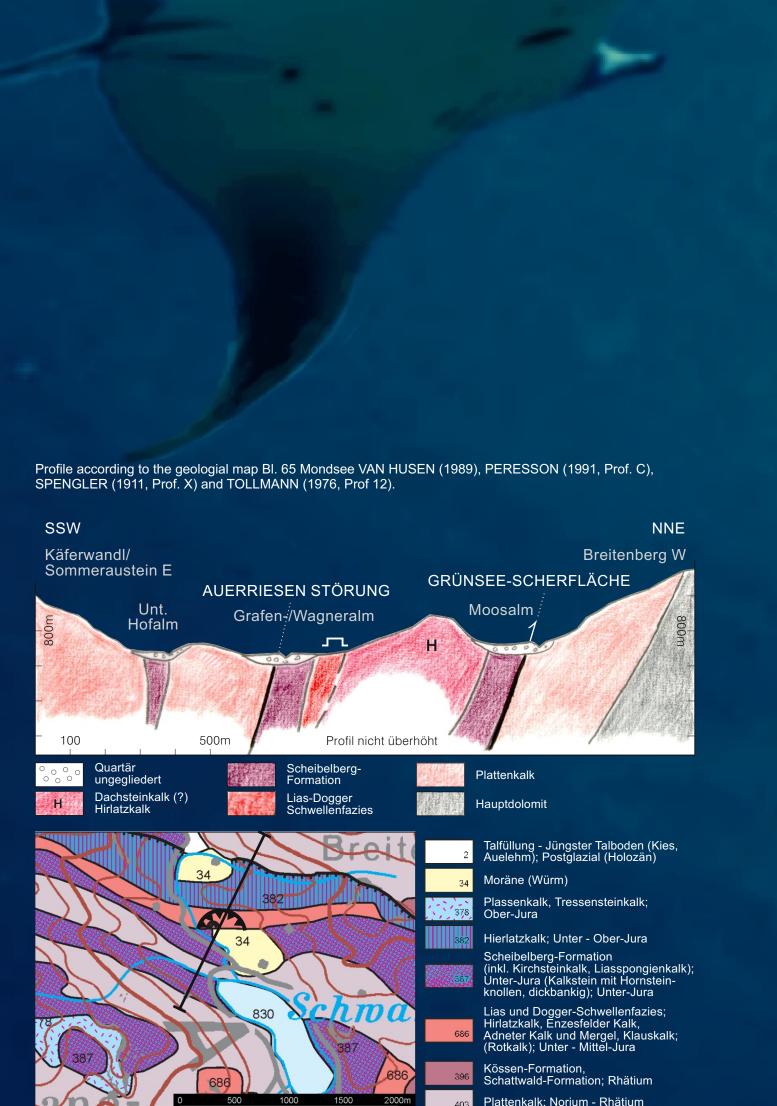
USACES OF LIMESTONE DEPOSITS SALZKAMMERGUT REGION / AUSTRIA



ca. 12 m high wall

It is situated east of the

at the base of a wooded

500 m NW of the shore of

Due to the low contrast on the dry wall only the scarcity of the clayey seams is

Moosbach waterfall

low mountain range,

It is invisible from the

western forest road to

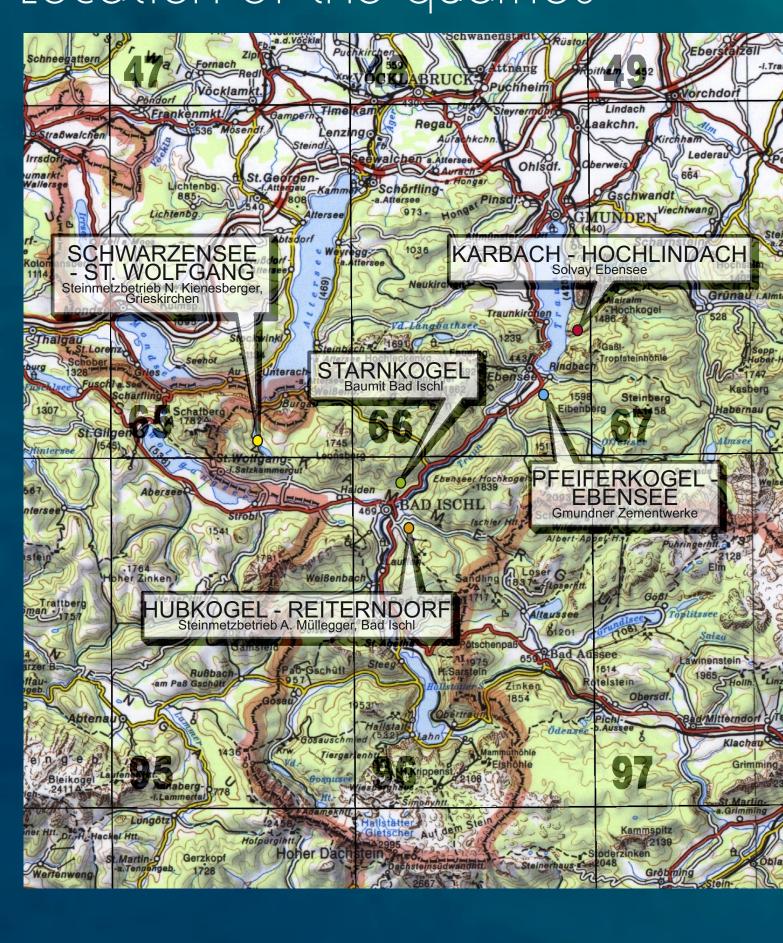
sawed in steps.

("Straubing")

Schwarzensee.

Attersee.

Location of the quarries



Geological timetable

		KÄNO- ZOIKUM	QUARTÄR NEOGEN PALÄOGEN			– 1,75	Karbach Hochlindach gel - Ebensee
							ach lind iber
		\$5				23,8	Milionen Karba Hochli gel - Eb
	I K U M	MESOZOIKUM	KREIDE	OBERE	MAASTRICHTIUM CAMPANIUM SANTONIUM CONIACIUM TURONIUM CENOMANIUM	- 65 - 71,3 - 83,5 - 85,8 - 89 - 93,5	Milionen Jahre Karbach Hochlindach Pfeiferkogel - Ebensee
				UNTERE	ALBIUM APTIUM BARREMIUM HAUTERIVIUM VALANGINIUM BERRIASIUM	— 99 — 112,2 — 121 — 127 — 132 — 137 ——142 —	
			JURA	OBERER (MALM)	TITHONIUM KIMMERIDGIUM OXFORDIUM	144,2 150,7 154,1	
	O Z			MITTLERER (DOGGER)	CALLOVIUM BATHONIUM BAJOCIUM AALENIUM	— 164,4 — 169,2 — 176,5	?
	0			UNTERER (LIAS)	TOARCIUM PLIENSBACHIUM SINEMURIUM HETTANGIUM	180,1 189,6 195,3 201,9	
	ш Z		TRIAS	OBERE	RHÄTIUM NORIUM CARNIUM	—205,7 209,6 220,7 227,4	V V
	⋖			MITTLERE	LADINIUM ANISIUM	— 234,3 — 241,7	←The sequence
	エ			UNTERE ("SKYTH")	OLENEKIUM INDUANIUM	_	outside
	۵		PERM	1		248,2	
		. ≥	KARBON			290	S+co.+
		PALÄO- ZOIKUM	DEVON			354	Strat
		A S	SILUR			417	0
		ДŅ	ORDOVIZIUM			- 443	
			KAMBRIUM			- 495 - 545	de
	PROTEROZOIKUM						sequence solution in the
	ARCHAIKUM					2500	in th

Poster exhibition

On the occasion of the conference

Contributions to the geology of the Salzkammergut region 28. - 31. August 2003 Museum in Gmunden Upper Austria.

The five quarries under the focus of attention are described in detail in the paper "The Usage of Upper Triassic and Jurassic Limestone in the Salzkammergut region" in the conference proceedings

tigraphical ge of the jences in the quarries



The northern wall in the eastern part of the quarry is

projecting like an oriel.

vo small cauldron shaped quarries, each ca. 5 m

ong and up to 5 m high, are situated on the

presumably originates from the Barock times,

when edgings and cornices among others had

been produced for the monasteries in Mondsee

A gradation is inferred in the red micrite from the transition of dark to light colour and

some calcitic caps interpreted as geopetal structures. Shell of a cephalopod

contains also redeposited clasts of red micrite and marl.

(<) is dissolved and replaced by blocky clacite. The light pink crinoidal sparite

and St. Florian and the church in St. Wolfgang.

The northerly one shows the hole by hole drilling

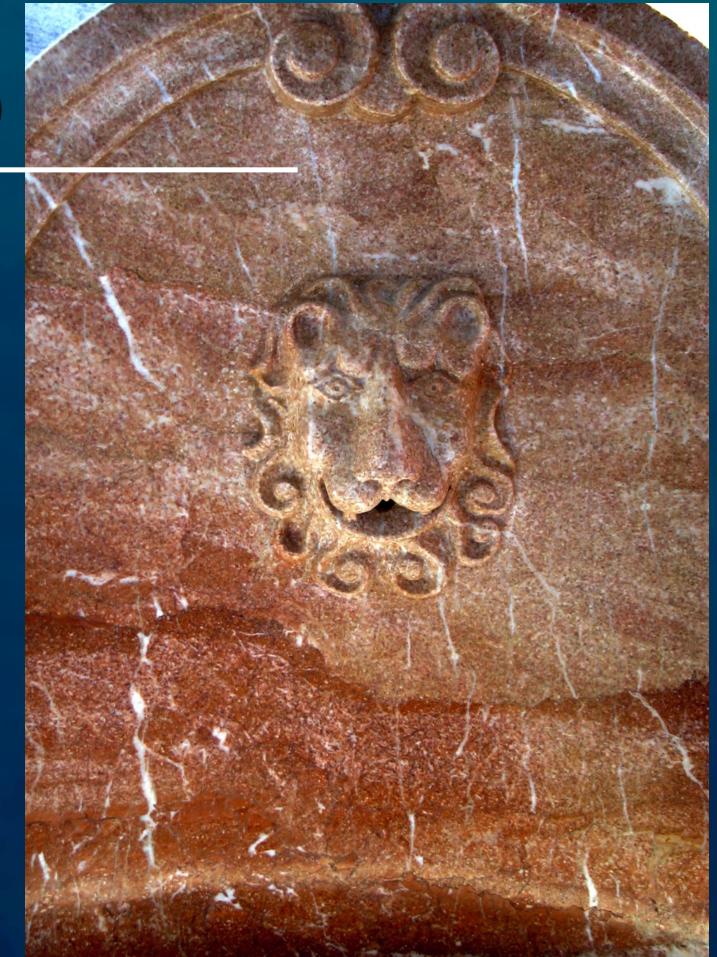
planation above the active quarry.

The one adjacent to the south with kerfs

ype of the 20th century.

crinoid limestone (Hirlatzkalk). The photo shows a detail where the limestone - mainly Hirlatzkalk, subordinate red and greenish micrite disintegrates into a breccia with vugs filled with polyphase cements (bordering beige fibrous rimcement and white blocky cement inside). The sharp edges of the components imply hardly any transport.

The very young fissures limit the size of the worked blocks to 3 to 4 cubic metres. A saw with a diamond rope is used, which is threaded through bore holes, which are drilled perpendicular to each other. The worked block is sawed by creating the first side wall, followed by creating the floor and finally the second side wall, till it breaks off (= break-off point). Historical Quarries



Hirlatzkalk: Graded and slightly crossbedded sediments (or submarine sandbars) of crinoids. Within one layer the size of the sedimented skeletal grains decreases (red micrite) increases; crinoid rich layer.

Fountain with a lion's head



example the Liassic mestone rsp. mestone breccia is manufactured rather for interior designs than for the exterior



Floor slabs (ca. 45 x 45 cm) in the catholic church in Gosau.



Model slab, 120 x 70 cm. Brecciated Hirlatzkalk lies in a groundmass of laminated marly limestone to claystone which is red to green or partly black stained through



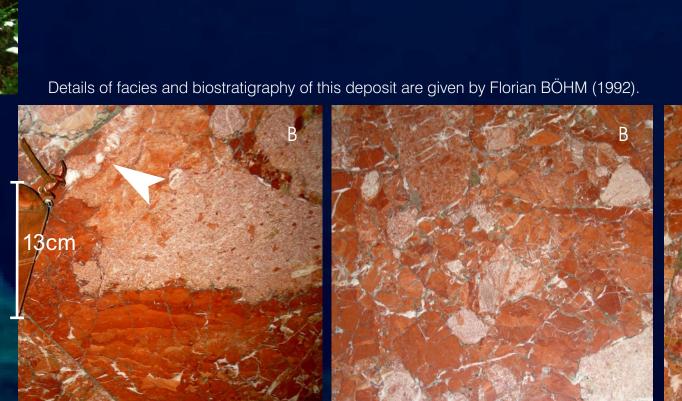
higher eastern wall parts (110).

working methods, like the hole by hole drillings are still visible in the

Commodities



Wash-basin Bioturbation (borings in slightly lithified sediment, now splotchy) and diagenetical effects like red colouring by oxidation of the $Fe^{\parallel +}$, being present only in traces, to $Fe^{\parallel +}$, or grey-green colouring when the reduced form of iron is preserved. Pressure solution during advanced diagenesis components and calcite veins are truncated) and tectonically enforced repeated shift of structures along thin planes. Position possibly upright.



Hirlatzkalk.

Distribution of the The marly sediment, which had been deposited in components of light pink the voids between the Lias-Kalk components of the breccia was itself formed into components afterwards.

road on the

planation above the active quarry.

Size of the components between 2 and 20 cm.

Several stages of brecciation.