Table 1. Petrography of investigated rock samples. All rocks contain a patite, zircon and opaques as minor constituents, S 350 and B 41 secondary calcite. \bar{n} is the average refractive index of the diaplectic quartzes and glasses, see Table 8. % are volume percentages

No.	Rock name	of shock	Quartz vol. percentage, grain size and refractive index	Feldspar	Biotite	Amphibole
B 10	quartz dio- rite gneiss	I	$\begin{array}{lll} 33\% & [0.05-0.5 \text{ mm}] \\ \overline{n} = 1.546 \end{array}$	61% oligoclase	5%	=
B 51	granite gneiss	I	$\frac{32\%}{\overline{n}}[0.05-0.4\;\mathrm{mm}]$ $\overline{n}{=}1.546$	63% oligoclase and orthoclase	5%	_
S 289	granite or quartz dio- rite gneiss	II	$\frac{19\%[0.1-\!0.8\mathrm{mm}]}{\overline{n}=1.545}$	57% feldspar, nearly com- pletely isotropic	24% with kinkbands	
В 36	granite	I	33% [0.2 —1.0 mm]	64% oligoclase and orthoclase, the latter with sanidine optics	3%	-
B 151	diorite	II	$\frac{6\%[0.05-0.4\;\mathrm{mm}]}{\bar{n}=1.536}$	47% oligoclase- andesine. Iso- tropic twin lamellae	12%	35% with twin lamellae
В1	quartz dio- rite gneiss	П	$\begin{array}{l} 33\% \ [0.2 \0.6 \ \mathrm{mm}] \\ \overline{n} = 1.534 \end{array}$	62% oligoclase. Isotropic twin lamellae	3%	1%
S 350	granite or diorite gneiss	П	$\frac{34\%}{n}[0.2-0.1\mathrm{mm}]$ $\frac{1}{n}=1.533$	60% feldspar partially or completely isotropic	5% biotite and chlorite	_
S 349	quartz dio- rite gneiss	П	$\frac{22\%\ [0.6\0.2\ \mathrm{mm}]}{\overline{n}=1.529}$	55% andesine, partially or completely iso- tropic (see STÖFFLER, 1967)	4% with kinkbands	19%
В 7	granite or quartz dio- rite gneiss	П	$\begin{array}{l} 37\% \ [0.2\ -0.6\ \mathrm{mm}] \\ \overline{n} = 1.480 \\ \mathrm{partially\ isotropic} \\ \mathrm{and\ transformed} \\ \mathrm{into\ secondary\ clay} \\ \mathrm{minerals} \end{array}$	58% feldspar Partially iso- tropic, recrystal- lisation	4%	-
В 9	granite or quartz dio- rite gneiss	. II	$\begin{array}{l} 35\% \ [0.2\0.8\ \mathrm{mm}]\\ \overline{n} = 1.479\\ \mathrm{partially\ transformed}\\ \mathrm{into\ secondary\ clay}\\ \mathrm{minerals} \end{array}$	60% feldspar, partially iso- tropic, recrystal- lisation	4%	-

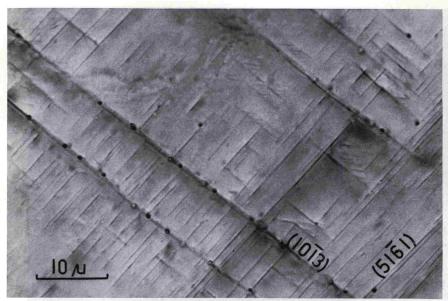


Fig. 2. Planar elements with some single decorations in quartz from sample B 151. Plane polarized light

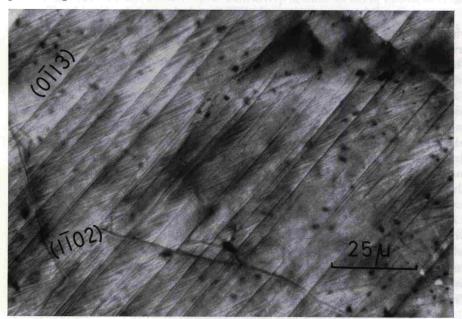


Fig. 3. Non-decorated planar elements in quartz from sample B 7. Crossed nicols

found in the sample S 349 (Fig. 4). Some lamellae can be observed only under highest magnifications (oil immersion).

All quartz lamellae in the investigated rock samples are symmetrical. Asymmetric lamellae like those reported by Christie, Griggs and Carter (1964) from studies