sea-level the lakes (with different water composition due to different drainage areas and freshwater influx) became flooded by the sea. At such times in the eight Plio/Pleistocene megasequences of the Corintian area especially precipitation of aragonite took place.

For the genesis of the aragonitic whitings we assume high temperatures during summer times combined with algal blooms extracting CO₂ from the sea water. Because of the specific water of each take the ingressions of the sea resulted in different aragonite compositions.

PEGMATITES AND "METASOMATIC" ROCKS IN THE METABASIC SERIES OF EAST/SOUTHEAST RHODOPE: MINERALOGY - PETROLOGY -GEOCHEMISTRY

K. Arikas^{*}, J. Romstedt^{*}, S. Zachos^{**}

* Mineralogisch - Petrolographisches Institut, University Hamburg, Grindelalles 48, D-2000 Hamburg-13, Germany I.G.M.E., Xanthi Branch, Mprokoumi 50, 671 00 Xanthi, Greece

Pegmatites appear in the eneiss-migmatite and the marble-amphibolitic series of the metamorphic units of Central and Eastern Rhodope. They are genetically associated with the large granite bodies of Rhodope (e.g. Skaloti-Echinos, Kavala, Serres). A large number of outcrops of pegmatites occur in the metabasic series of East/Southeast, Rhodope although acid plutonic bodies are absent in the area. Vein-type igneous intrusives and amohibolites altered to leucocratic rocks are observed in the same series. The "metasomatic" rocks are dominated by the following neoformed minerals: albite/oligoclase, quartz, almandine gamet, muscovite/paragonite, clinozoisite/epidote (torthite), rutile and recrystallized homblende. "Metasomatic" rocks with more than 50% scapolite (mizzonite) are worth to be mentioned. The progressive metamorphism of the metamorphic Units of Rhodope influenced the neoformation of minerals of the "metasomatic" rocks.

A geochemical study indicates that the leucocratic members of the "metasomatic" rock types (e.g. the vein type intrusives of leucosomes) are depleted in potassium and they are considered as being derived from trondjemitic melts of continental anatectic origin. Pegmatites with similar geochemical affinities, which intruded the amphibolite-"metasomatic" rocks complex, have probably the same magmatic origin. The "trondhjemitic tendency" of these pegmatites is further more substantiated by comparing their geochemical characteristics with those of pegmatites from Central/West Rhodope. The lattar ara potassium rich and show "granitic affinities".