PALAEOECOLOGIGAL AND STRATIGRAPHICAL RESULTS FROM THE STUDY OF DIATOMES FROM N. PELOPONNESUS, GREECE

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A major reason for the studying of fossil diatom algae in the sediments of the Egion area in Northern Peloponnesus is to assist in determining the age and origin of the sediments, and in reconstructing the paleogeographical and paleoecological environments of sedimentations. When eustatic sea – level changes during glacial and interglacial episodes, the gulf of Corinth became connected with or disconnected from its marine source and changed back and forth from marine to brackish to freshwater environments. These primarily climate-controlled environmental changes have influenced sedimentation processes and the deposition of freshwater, brackish to marine microfossils. Floral enalysis from the sections Mavriki and Ano Ziria reveals that several ecologically stressed diatom assemblages can be defined and are correlated with the Unit 4 (Uzunlar) from Black Sea, age 4.10⁵ years, during the Tyrrhenian transgression in the Mediterranean Sea.

PHYTOPLANCTON OF THE PALEOCENE FLYSCH DEPOSITS (BEOTIA - GREECE)

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Near Akraifnion, Beotia (Greece), a paleocene flysch section composed of siltstones, marls and limestones, was investigated under palynologic aspects. About 60% of the samples included bisaccate pollen grains of the genus *Pityosporites* (with 7 species) and about 20% included dinoflagellate cysts (2 Achomosphaera, 2 Areoligera, 1 Cleistosphaeridium, 1 Cyclonephelium, 1 Exochosphaeridium, 1 Heterosphaeridium, 1 Hystrichosphaeridium, 1 Spinidirium, 2 Spiniferites, 1 Tanyosphaeridium, 1 Thalassiphora). Within the section are two peaks merking a higher distribution of specimens and dinoflagellate species, which attest an Early Paleocene (Cyclonephelium distinctum) and Late Paleocene (Thalassiphora delicata sensu MANUM, Spiniferites pseudofurcatus, Spinidirium densispinatum) age.

Most of the identified cysts belong to the pelagic Spiniterites or Areoligera associations. Nearly all the cysts are of the chorate or proximochorate major cyst type, showing warm-water environments. They are characterized either by numerous (Cleistosphaeridium polytrichum, Cyclonephelium distinctum), very long processes or bizarre branched tips (Achomosphaera sp., Areoligera cf.coronata, Areoligera senonensis, Exochosphaeridium *sp., Hystrichosphaeridium salpingophorum, Spiniferites pseudofurcatus).* Therefore the palecenvironment of the dinoflagellates described was a relatively warm-water open ocean.

The identified species are distinguished by a relatively large biostratigraphic range and palaogeographic distribution. About 60% are known in the North-American Paleocene and about 15% are known in the Australian Paleocene.

SOME STRATIGRAPHIC AND PALAEONTOLOGIC OBSERVATIONS ON THE CRETACEOUS/TERTIARY BOUNDARY IN THE NIKSAR REGION (PONTID-TURKEY)

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It has been observed that the lithologic transition between the Cretaceous-Tertiary boundary is conformable in the Niksar (Tokat, NE of Turkey) region. Kirandağ formation of Maestrichtian age, composed of limestone-mari alternation is conformably by Erencik formation of Danio-Montian age which is represented by clayey limestone. The characteristic benthic foraminifera of Upper Maestrichtian age are *Orbitoides apiculatus* SCHLUMBER-GER, *Orbitoides medius* (d'ARCHIAC), *Omphalocyclus macroporus* LAMARCK, *Hellenocyclina beotica* REICHEL, *Smoutina cruysi* DROOGER, *Sirtina orbitoidilormis* BRÖNNÍMANN, *Anomalina* sp., *Gyrodina* sp., *Cideina* n.gen.n.sp (SİREL, unpublished) foilowed with *Laffitteina bibensis* MARIE, *Laffitteina mengaudi* (ASTRE), *Idalina sinjarica* GRÍMSDALE, *Rotalia perovalis* TERQUEM, *Anomalina* sp., *Gyroidina* sp., *G*

THE HYSTRICIDAE FROM THE PLEISTOCENE OF MACEDONIA (GREECE) AND A REVIEW OF THE EUROPEAN REPRESENTATIVES OF THE FAMILY

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The remains of some hystricids from the Mygdonia basin (Macedonia, Greece) are studied; the taxonomy of the known representatives of *Hystrix* and the relevance of the various species for the biostratigraphy of Neogene / Quaternary is also discussed. The studied material comes from the locality of Gerakarou-1 (GER) which is situated into the Pleistocene deposits of the Mygdonia basin. The morphological characters of the studied specimens allow us to identify these as *Hystrix major* (GERVAIS 1859). The locality has been deted by