

Some Tertiary and Quaternary basins of Macedonia/Greece - formation and evolution

E. Pilger - Rotational deformation during Palaeogene thrusting and basin closure in eastern central Greece: palaeomagnetic evidence from Mesozoic carbonates



Description: -

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Sedimentation and deposition.

Geology -- Greece -- Macedonia.

Geology, Stratigraphic -- Quaternary.

Geology, Stratigraphic -- Tertiary. Some Tertiary and Quaternary basins of Macedonia/Greece - formation and evolution

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NEOGENE AND QUATERNARY CONTINENTAL BIOSTRATIGRAPHY OF GREECE BASED ON MAMMALS

An overall eustatic rise in sea level, during Triassic times, was reflected by the Triassic sediments overstepping Permian basin margins.

Protein structure: details

Beneath the southern Alps, some of the most recent interpretations, based on deep seismic data and geology, indicate an emplaced thrust sheet involving 10 km of pre-tectonised crust intruded by arc magma, overlain by 5-7 km of Mesozoic passive margin sediments, and 3-7 km of Oligocene to Pleistocene foredeep fill. On the basis of gravity, depth-to-basement data, the aggregate thickness of the Miocene units and any underlying Tertiary volcanic rocks is much less than 1 km throughout the entire basin. Outcrop sample collected just north of the Hunter exit along I-80 on the south side of the Adobe Range, Elko County.

Tertiary and Quaternary tectonics in Aegean area

A thick sequence of basalt to dacite flows was erupted in the western and southwestern Sheep Creek Range between ca. Petrographically identical andesite flow units in the Peko Hills, east of the Adobe Range, were dated at 15. Stratigraphy The oldest sediments in the basin were deposited shortly before 16.

The Geological Society

Sedimentation, Subsurface Structures and Tectonics During the Cretaceous as well as Tertiary times the sedimentation in these rift-related basins, extending NW-SE, was mostly fluvial, gradually becoming brackish and marine in the peripheral regions towards the open seas Fig. The Kola-Karelian Orogen This orogenic belt has distinctive geophysical properties compared to the Svecofennian Orogen. The deglaciation was nearly achieved by 9,500 years BP, leading to the maximum Flandrian sea transgression Williams et al.

Mygdonia Basin (N. Greece) in the View of Isotope Geochemistry

Other types of gneiss in this terrane are dated in the range 2. At Chimney Reservoir, ash-rich sediments were deposited on a 16. Towards the northwestern Lotikipi and southeastern Chalbi parts, they are expected to present a correlatable Cretaceous stratigraphy; the stratigraphic facies boundaries may be diachronic.

Geological Evolution

We focus first on the 130 km long Corinth Rift, an asymmetric graben where a flight of terraces of marine origin are uplifted. In addition, the ability of the western, non-tectonic side of the basin to connect with the Carlin basin and Independence Valley at ca. The orogen was formed in the Early Proterozoic between 2.

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