

O4-4**REVIEW OF STRATIGRAPHY, STRUCTURE AND
TECTONIC AROUND THE MARMARA ISLAND
AND THE KAPIDAG PENINSULA****CENGİZ KURTULUS**

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The research area is located among the Marmara, Pasaliman and the Avsa islands and the Kapidag peninsula. Seismic reflection studies show five significant stratigraphic units occur at the Paleozoic, Neogene and Plioquaternary levels. The granites take place at the basement and is overlain by the Paleozoic metamorphic schists. The Paleozoic marble series take place over these schists which are overlain by the Neogene floviomarine deposits. The Plioquaternary sand, clay and gravels take place at the sea bottom over the floviomarine deposits. The mass of granite grades upward cutting the overburden series and outcrops at the sea bottom.

The fault trends in the basin are generally east to west in the longitudinal directions between the Marmara Island and the Kapidag peninsula. The sea depth varies between 55 m and 75 m in the research area.