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Abstract Title

Plum tectonics as physical mechanism of Neotectonic movements within Azov-Black Sea locale

Abstract Text

Main feature of Black Sea basin upper mantle is low velocity layer availability (<8,0 km/s) within it (on depths 50 – 100 kms). Within depths interval of 20-160 kms there is loosened material - attains 0,036 g/sm³ from standard (Offshore Geology of UcrSSR, 1987). Also Black Sea abyssal hollow is characterized by anisotropy of seismic wave's velocities in upper mantle (Galkin et al., 1976). Velocities maximums orientation is corresponding with longer axis of olivine crystals which are organized along minimum stress lines (sprain direction). These lines maps plastic diffluence of upper mantle material within West- and East-Black Sea cavities (along meridian). This crossflow can have compensatory nature. Due to such stress field magnetic bodies of sediments bottom within Black Sea basin are latitudinal. Onshore they are connected with neotectonic continental-rift vulcanites of Lake Van surroundings (Koronovsky, 1999). Thus there are available basic signs of asthenosphere "diapir fold" under the Black Sea. Black Sea plum can be chronologically defined as Middle Miocene, but its material realization was performed during neotectonic stage. This plum is element of Mideuropean-Black Sea zone of crust with reduced thickness (Offshore Geology of UcrSSR, 1987). This zone is formed by genetic series cavities Pannonian – West-Black Sea – East-Black Sea – South-Caspian within former back arc basins belt.

Symposium titles

EID-02 EID-02 Properties and dynamics of mantle and core

Presentation Preference

Poster presentation

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