O43. ESTIMATE OF DEPENDENCE OF TURBULENT KINETIC ENERGY DISSIPATION RATE ON THE BUOYANCY FREQUENCY FOR THE COASTAL ZONE OF THE BLACK SEA

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Estimates of dependence of turbulent energy dissipation rate from stratification in pairing zone between the shelf and continental slope of the Black Sea are made, based on the analysis of the measurements of the three components of velocity vector pulsation carried out in 2004–2014 using the probe-turbulence meter "Sigma-1". The measurement results are compared with the previously calculated dependences of energy dissipation rate and vertical turbulent diffusion coefficient in the study area from stratification based on a model that uses an array of temperature fluctuations data.