## PHASE FRONT FLUCTUATIONS OF SOUND WAVE IN SHALLOW WATER DUE TO INTERNAL WAVES

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In given work we consider fluctuations of the phase front of sound wave propagating from the point source in shallow water in presence of internal waves. The features of perturbations effects of the phase front in shallow water is dependence on frequency and number of vertical modes. Theoretical analysis is considered within the framework of approach "Vertical modes and horizontal rays" and "Vertical modes and parabolic equation in horizontal plane". In work it is considered spatial and temporal fluctuations of the phase front taking place during motion of internal waves through acoustic trace and analyzed how these fluctuations can be measured using mode filtration and horizontal line array. It is calculated for model of shallow water conditions corresponding to experiment SWARM'95.