

# METHOD OF DATA FILTRATION FOR INVESTIGATION OF COASTALLY TRAPPED WAVES STRUCTURES

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Results of local experiment in Crimea shelf zone is considered. Modal structure of coastally trapped waves is examined. For amplitude of modes the system of linear equations is solving. Quantity of modes is less than quantity of stations. New method of filtrating is used. It is based on plane rotation of our system, minimization of any quadratic functional and sorting of new equation by its informatable. Due to this procedure level of noise in initial system is decreased. *A priori* information about dispersion of mistakes and maximum of mode's amplitudes are used. This method gives a possibility to use all information in solving of this incorrect mathematical problem and may be useful for solving of similar problems, in which modal structure of oceanography fields are used.