

ON THE POSSIBILITY OF ESTIMATING THE MAXIMUM DETECTION RANGE OF UNDERWATER GLIDERS

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A technique for holographic processing of a noise signal from an underwater source is presented, which makes it possible to estimate its maximum detection range. An algorithm for determining parameters is presented holographic processing, realizing the maximum detection range. The results are given numerical experiment to determine the maximum detection range of a hybrid AUV in the "underwater glider" mode. As a receiving system, a single receiver and a linear antenna.

Keywords: holographic processing, underwater noise source, receiving system, signal duration, maximum detection range, glider

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