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SPECTRAL CHARACTERISTICS OF NOISE FIELD OF A SMALL-SIZED AUTONOMOUS UNDERWATER VEHICLE IN FAR ZONE

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The estimation results of noise spectrum of a small-sized autonomous underwater vehicle in the frequency band 50–1000 Hz at far zoneare considered.Sound pressure spectral levels were obtained under various modes and conditions of vehicle motion. The spectral characteristics in the far zone allow us to obtainthe estimation of detection range at different modes and speeds of the vehicle movement.As a result, the controlled zone rangeis estimated.

Keywords: underwater monitoring systems, autonomous underwater vehiclenoise, spectral characteristics, near and far zones.

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