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Reconstruction of background water density distribution at the northeastern Sakhalin coast for the summer period based on parameterization of vertical water-mass structure

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A four-layer piecewise and curved model of the vertical water mass structure has been applied to develop a summer-time water density field of 1-degree resolution. The input data for the simulation included historic data of 1937 to 1993 and instrumental data collected during international research cruises of R/V “Professor Khromov” in 1998-2000 and 2006. The resultant water density fields allowed to determine basic features of the summer water mass stratification offshore northeastern Sakhalin. The parametric model is shown to be preferred in cases when coastal waters with high horizontal heterogeneity of water density are studied.

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