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The paper presents an analysis of water temperature based on archived instrumental observations in Aniva Bay from 1949 to 1994, satellite data from 1981 to 2025, and direct measurements made in 2023. According to the weather station from 1969 to 1925, the minimum trend value for air temperature is positive and is 1.2 °C for the entire period and is observed in December. For August, the increase in air temperature is about 1.6 °C, and for March about 3.4 °C. According to satellite data, a positive trend is observed for water temperature, with a value of about 1.6 °C over the entire period. In the interannual variability of the monthly average water temperature, the greatest positive trends are observed in July-August – about 2.1–2.4 °C over the entire period. According to in situ measurements, until 1994, maximum temperatures were observed in August and did not exceed 20.1 °C. According to ship measurements, a temperature of 21.46 °C was recorded in 2023, according to satellite data, the maximum 22.55 °C was observed in July 2021. On average, the trends in almost the entire bay during the study period were positive and amounted to 0.5–1 °C. The maximum warming is observed in Salmon Bay and in the northern part of Aniva Bay

Keywords: water temperature, Sea of Okhotsk, Aniva Bay, satellite data, climatic trends

Fig. 10. Ref. 24.