

Astana 2025, №1

Monthly hydrometeorological review for January 2025 for the Kazakhstan coast of the Caspian Sea.

All current data are raw (operational) monitoring data of RSE “Kazhydromet”.

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In January, 9 cases of surge phenomena were observed. In Fetisovo, the level rise reached 27 cm (-29.21 m). In Fort Shevchenko there was a drop in level of 22 cm (-29.68 m).

Sea level.

The maximum was recorded at the Igolinskaya Banka point - 106 cm, and the minimum at the Fort Shevchenko point - minus 185 cm. The average level was minus 116 cm or minus 29.16 m BS.

Table 1. Characteristics of sea level

Station name	Mean level	Maximum level	Date of observation	Minimum level	Date of observation
Igolinskaya banka	99	106	01.01.2025	94	30.01.2025
Zhanbay					
Peshnoy	-100	-87	05.01.2025	-115	23.01.2025
Kulaly	-152	-146	03.01.2025	-158	06.01.2025
Fort-Shevchenko	-156	-138	10.01.2025	-185	06.01.2025
Saura	-168	-161	01.01.2025	-174	06.01.2025
Kuryk	-176	-166	04.01.2025	-182	14.01.2025
Aktay	-167	-165	14.01.2025	-170	06.01.2025
Peschany	-85	-79	23.01.2025	-90	26.01.2025
Fetisovo	-138	-119	21.01.2025	-149	28.01.2025

Note: MHP Zhanbay data were received with gaps

Water temperature.

The average water temperature in January was about 3,0°C, with fluctuations from 1,4°C (Kuryk) to 8.2°C (Peschany).

Air temperature.

The average air temperature in January was about 1.3°C. The maximum air temperature reached 14.6°C in the area of Fetisovo, the minimum air temperature reached minus 14.1°C in the area of the Peshnoy sea station.

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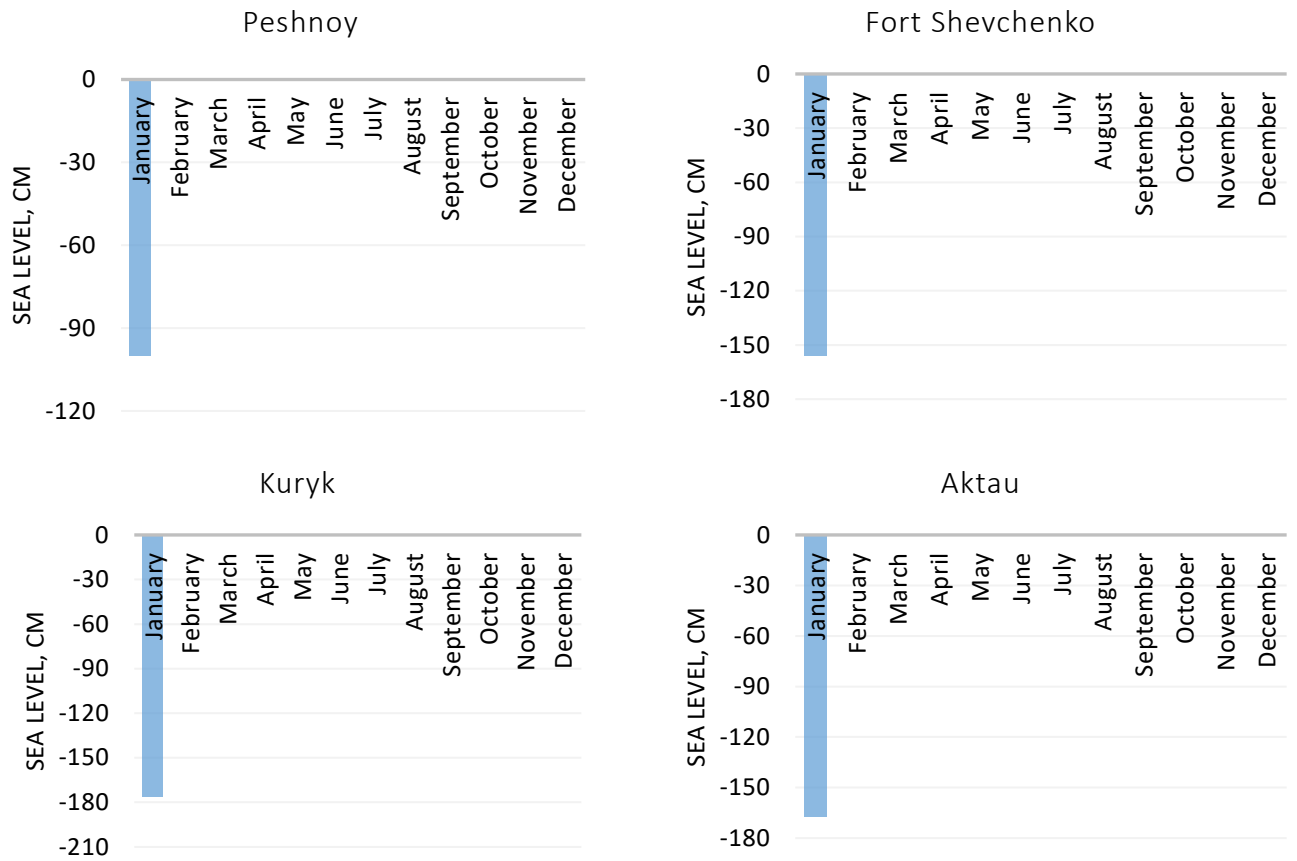


Fig.1. Average sea level, cm

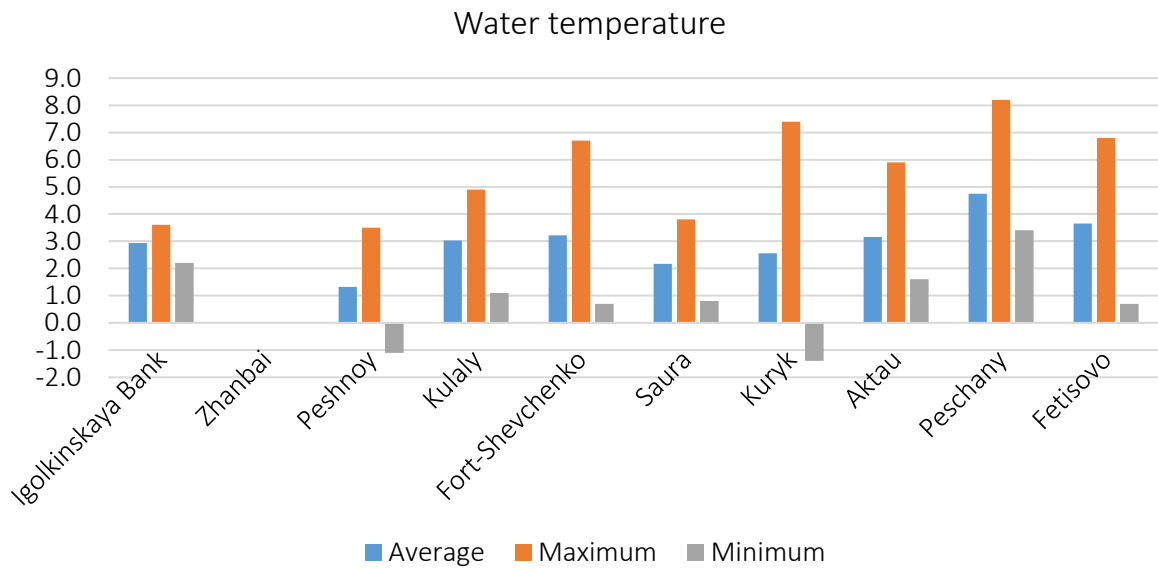


Fig.2. Water temperature, °C

Wind speed and direction.

In January, in the Kazakh part of the Caspian Sea, the average wind speed was about 4.8 m/s, the maximum speed reached 16 m/s (Peshnoy).

The predominant wind direction in January was southeast (24.0%), east (12.5%).