



**MINISTRY OF ECOLOGY AND NATURAL RESOURCES OF
THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

SCIENTIFIC RESEARCH CENTER

CASPIAN SEA WEEKLY BULLETIN №9

February 27, 2026, Friday

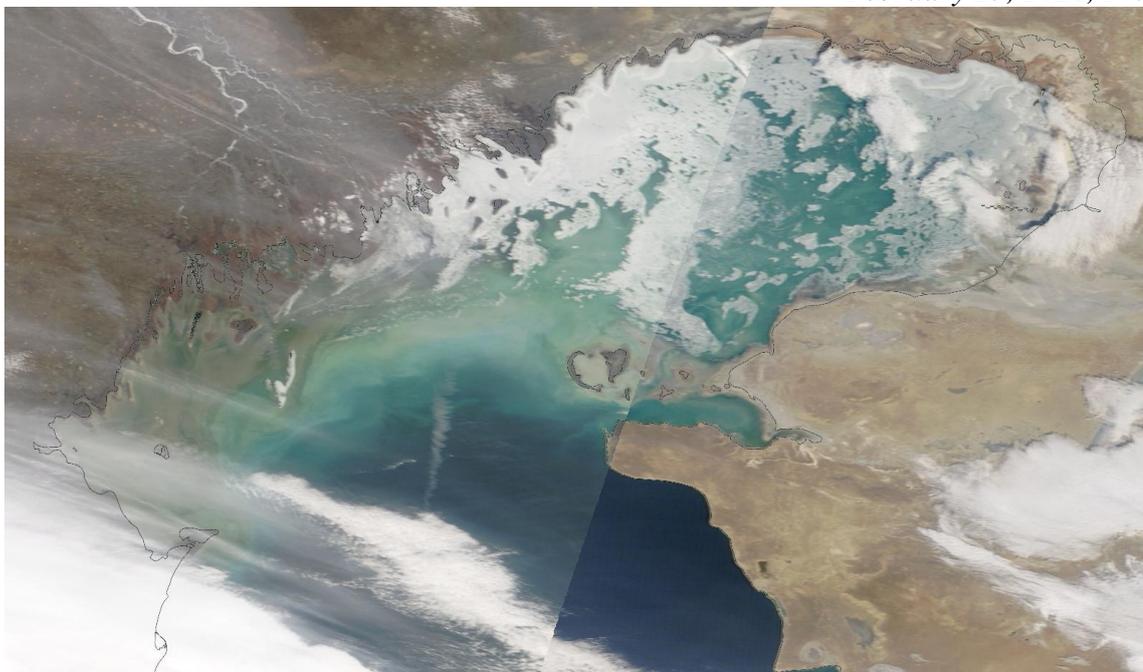


Fig.1 Space image of the Caspian Sea, February 26, 2026 (NASA/GSFC)

**FORECAST OF LEVEL AND SURGE PHENOMENA IN THE MIDDLE
PART OF THE CASPIAN SEA ON FEBRUARY 26 – MARCH 03, 2026**

SEA LEVEL.

In the period on February 26 – March 03, the sea level is expected to fluctuate around the mark of minus 29.62 m BS. The range of fluctuations in sea level is from minus 29.26 m to minus 29.98 m.

Figure 2 shows a graph of the predicted sea level values at various points in the Middle part of the Caspian Sea.

SURGERY PHENOMENA.

In the area of Saura, Peschanyi, Fort-Shevchenko, Fetisovo, Aktau and Makhachkala, surge events are not expected, sea level fluctuations will not exceed **14 cm.**

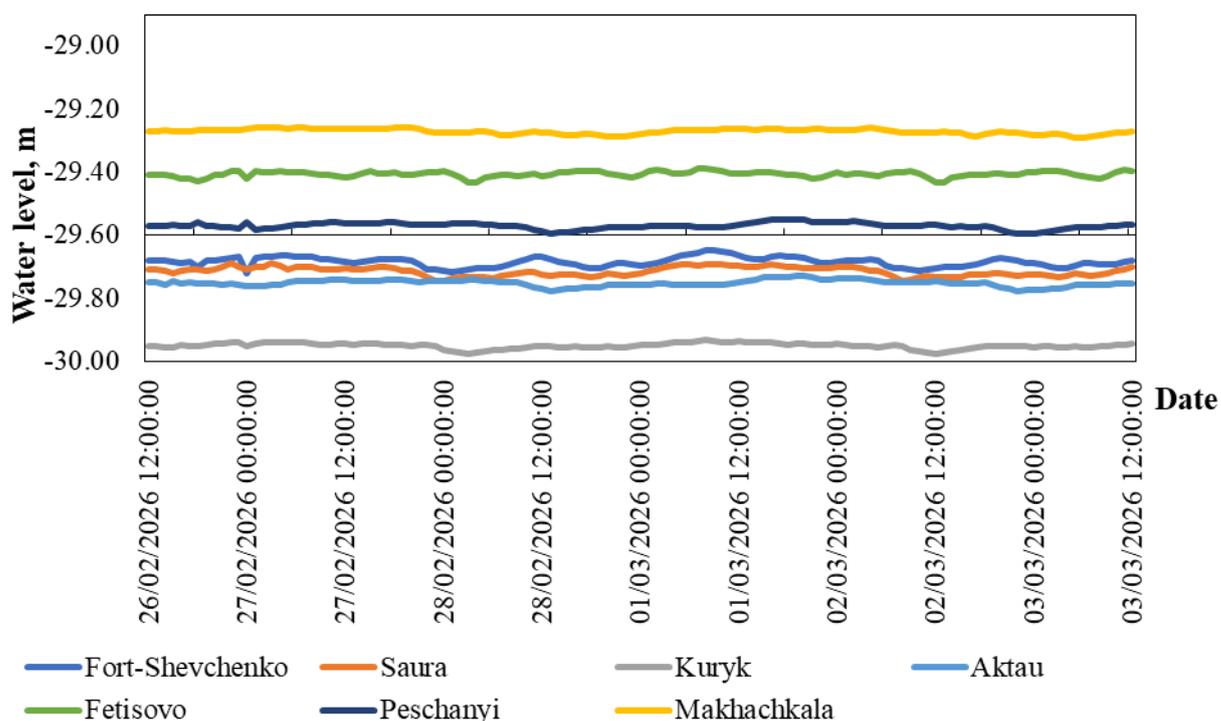


Fig. 2 Forecast of sea level in the points of the Middle Caspian

FORECAST VALUES OF SEA LEVEL FLUCTUATIONS AT VARIOUS POINTS OF THE KAZAKHSTAN COAST

Point name	Maximum		Minimum		Average
	Level, sm (m BS)	date, time, GMT*	Level, sm (m BS)	date, time, GMT*	Level, sm (m BS)
Middle Part					
Fort-Shevchenko	-165 (-29,65)	01/03/2026 09:00:00	-172 (-29,72)	28/02/2026 01:00:00	-168 (-29,68)
Saura	-169 (-29,69)	26/02/2026 22:00:00	-174 (-29,74)	27/02/2026 23:00:00	-171 (-29,71)
Kuryk	-193 (-29,93)	01/03/2026 08:00:00	-198 (-29,98)	28/02/2026 03:00:00	-195 (-29,95)
Aktau	-173 (-29,73)	01/03/2026 20:00:00	-178 (-29,78)	02/03/2026 22:00:00	-175 (-29,75)
Fetisovo	-139 (-29,39)	01/03/2026 08:00:00	-143 (-29,43)	02/03/2026 13:00:00	-141 (-29,41)
Peschanyi	-155 (-29,55)	01/03/2026 19:00:00	-160 (-29,60)	02/03/2026 22:00:00	-157 (-29,57)
Makhachkala	-126 (-29,26)	27/02/2026 02:00:00	-129 (-29,29)	03/03/2026 06:00:00	-127 (-29,27)

GMT* - Greenwich Mean Time

REVIEW

CASPIAN SEA WATER STAGE FROM FEBRUARY 19 – 25, 2026

According to the operational data of the sea stations of Kazhydromet: Fort-Shevchenko, Aktau, Fetisovo, Saura, Peschanyi, Kuryk and Roshydromet

(Makhachkala), the average value of the level of the Caspian Sea, in its deep part, corresponded to minus 29.59 m, the maximum minus 29.14 m, the minimum minus 29.95 m.

**REVIEW OF ICE CONDITIONS IN THE CASPIAN SEA,
FEBRUARY 19 – 25, 2026**

Satellite imagery (Figure 1) and operational data from marine stations and observatories along the northern coast of the Caspian Sea indicate the formation of an ice cover.

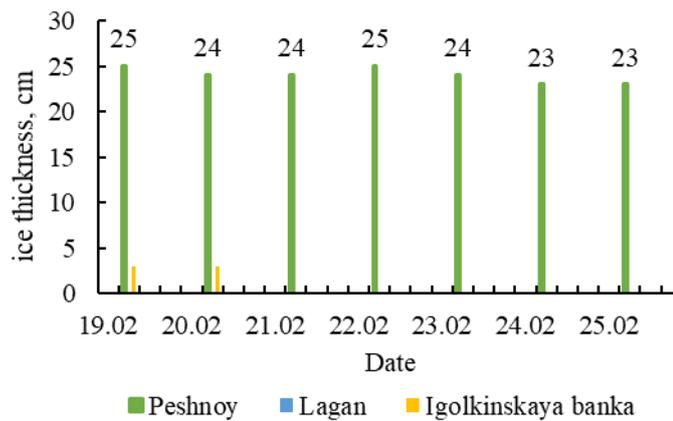


Fig. 3 Ice thickness according to operational data of marine stations

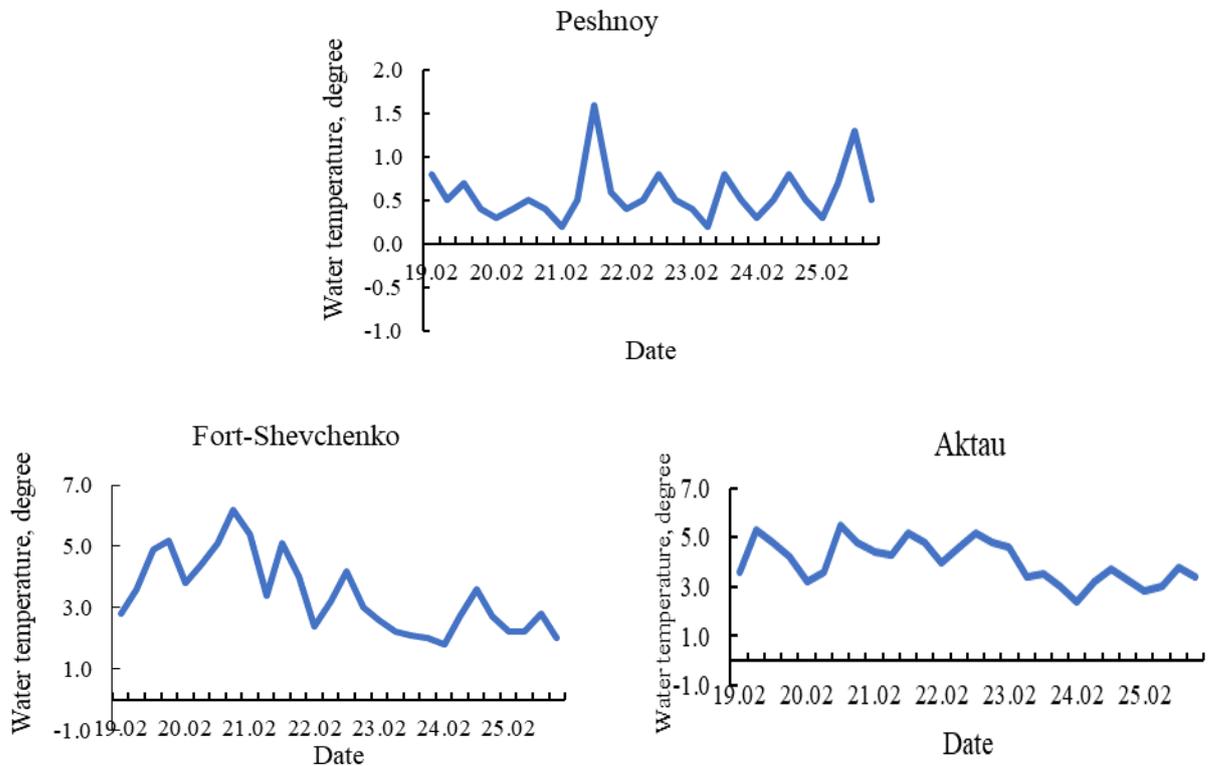


Fig. 4 Water temperature varies according operative data from Caspian Sea stations

CRITERIA OF DANGER OF THE STORM SURGES IN THE NORTHEAST COAST

	Rise/Fall, cm	Characteristic***	Consequences
Up surge	49	Critical	Flooded coast area to 5 km
	60	Danger	Flooding and flooding of dams and buildings up to 10 km
	109	Especially danger	Flooding of the coast for more than 10 km, destruction of dams and buildings
Down surge	-46	Critical	worsening navigation conditions for small ships
	-60	Danger	Worsening of navigation conditions for small and medium-sized ships
	-104	Especially danger	Ships would be aground

** The calculated characteristics were obtained using the hydrodynamic module of the MIKE 21 Flow Model, adapted in RSE "Kazgidromet" to the conditions of the Caspian Sea. Data of sea level measurements and pressure field numerical forecasting for 24 –120 hours were used in computation.*

*** At definition of characteristic marks local conditions were considered.*

**** Critical – 50 % frequency, danger – 25 % frequency, especially danger– 2 % frequency. The calculation was carried out for the period 1940-2024 according to the data of Peshnoy station.*

BS – Baltic System

The bulletin was compiled by the Department of Hydrometeorological Research of the Caspian Sea

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