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

SCIENTIFIC RESEARCH CENTER

CASPIAN SEA WEEKLY BULLETIN №22

May 29, 2026, Friday

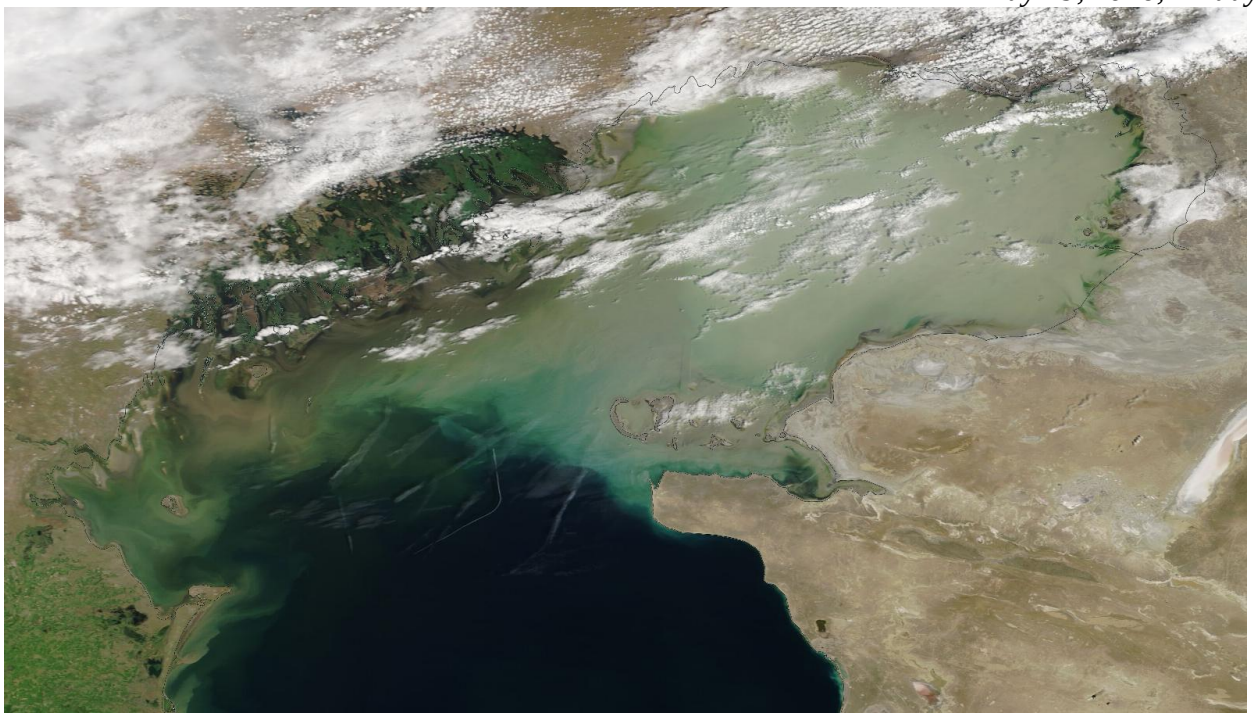

Fig.1 Space image of the Caspian Sea, May 28, 2026 (NASA/GSFC)

FORECAST OF LEVEL AND SURGE PHENOMENA IN THE MIDDLE PART OF THE CASPIAN SEA ON MAY 28 – JUNE 02, 2026

SEA LEVEL.

In the period on May 28 – June 02, the sea level is expected to fluctuate around the mark of minus 29.39 m BS. The range of fluctuations in sea level is from minus 29.10 m to minus 29.66 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 Fort Shevchenko, Kuryk, Aktau, Saura, Kuryk, Fetisovo, Peschanyi and Makhachkala, surge events are not expected, sea level fluctuations will not exceed **13 cm**.

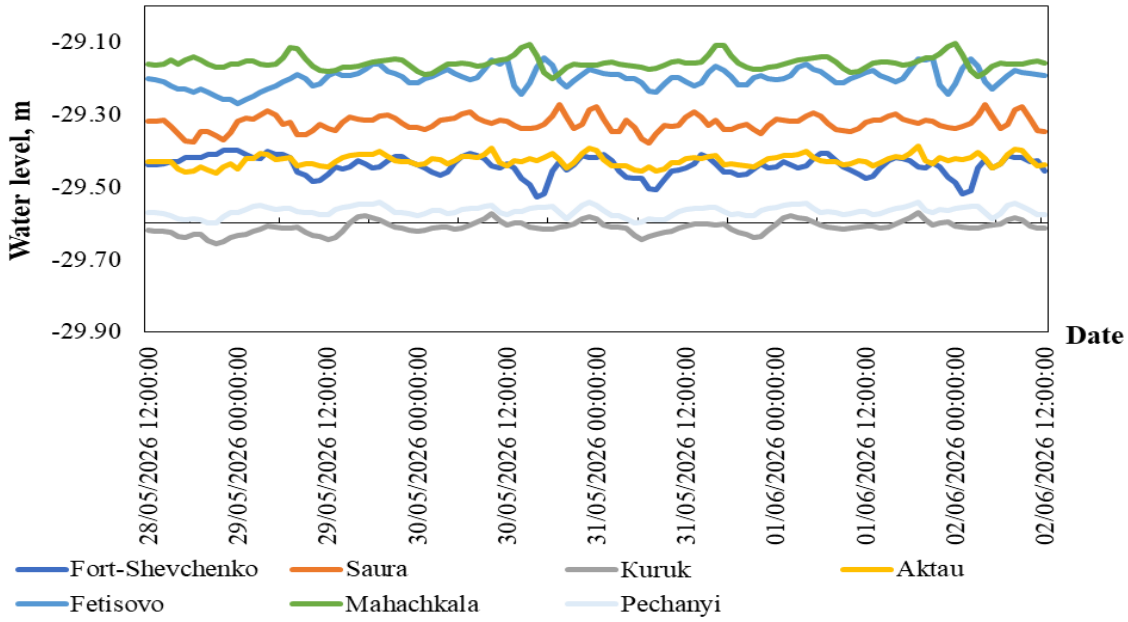

Fig .2 Forecast of sea level in the points of the Middle Caspian

FORECAST OF LEVEL AND SURGE PHENOMENA IN THE NORTHERN PART OF THE CASPIAN SEA ON MAY 28 – JUNE 02, 2026

SEA LEVEL.

In the period the sea level is expected to fluctuate around the mark of minus 29.00 m BS. The range of fluctuations in sea level is from minus 28.16 m to minus 29.48 m.

Figure 3 shows a graph of the predicted sea level values at various points in the Northern part of the Caspian Sea.

SURGERY PHENOMENA.

In the area of Kulaly, Peshnoy, Tyuleniy surge events are **not expected**, sea level fluctuations will **not exceed 13 cm**.

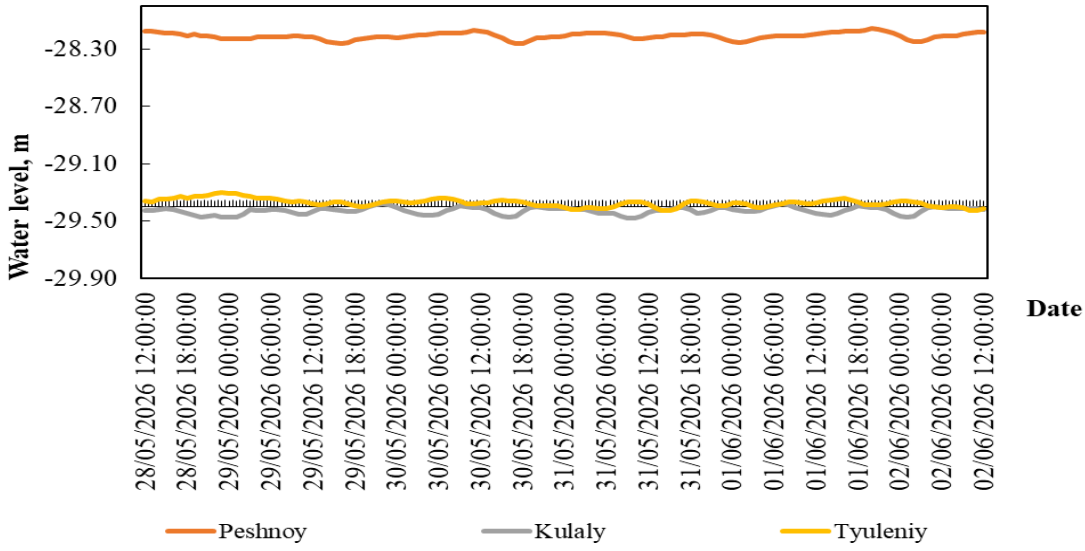

Fig .3 Forecast of sea level in the points of the North Caspian

FORECAST VALUES OF SEA LEVEL FLUCTUATIONS AT VARIOUS POINTS OF THE KAZAKHSTANI 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	**-140 (-29,40)**	28/05/2026 22:00:00	**-153 (-29,53)**	30/05/2026 16:00:00	**-144 (-29,44)**
Saura	**-127 (-29,27)**	02/06/2026 04:00:00	**-138 (-29,38)**	31/05/2026 07:00:00	**-132 (-29,32)**
Kuryk	**-157 (-29,57)**	01/06/2026 19:00:00	**-166 (-29,66)**	28/05/2026 21:00:00	**-161 (-29,61)**
Aktau	**-139 (-29,39)**	01/06/2026 19:00:00	**-146 (-29,46)**	28/05/2026 21:00:00	**-143 (-29,43)**
Fetisovo	**-114 (-29,14)**	01/06/2026 20:00:00	**-127 (-29,27)**	29/05/2026 00:00:00	**-120 (-29,20)**
Peschanyi	**-154 (-29,54)**	31/05/2026 00:00:00	**-160 (-29,60)**	31/05/2026 06:00:00	**-157 (-29,57)**
Makhachkala	**-110 (-29,10)**	02/06/2026 00:00:00	**-120 (-29,20)**	30/05/2026 18:00:00	**-116 (-29,16)**
Northern Part					
Peshnoy	**-16 (-28,16)**	01/06/2026 20:00:00	**-26 (-28,26)**	29/05/2026 16:00:00	**-21 (-28,21)**
Kulaly	**-138 (-29,38)**	29/05/2026 22:00:00	**-148 (-29,48)**	31/05/2026 10:00:00	**-143 (-29,43)**
Tyuleniy	**-130 (-29,30)**	28/05/2026 23:00:00	**-143 (-29,43)**	31/05/2026 15:00:00	**-137 (-29,37)**

GMT - Greenwich Mean Time*

REVIEW
CASPIAN SEA WATER STAGE FROM MAY 21 – 27, 2026

In the northern part of the Caspian Sea, according to operational data from marine stations of Kazhydromet: Peshnoy, Kulaly island and Roshydromet (isl. Tyuleniy), the average sea level corresponded to minus 29.14 m, the maximum minus 28.59 m, the minimum minus 29.54 m.

According to the operational data of the sea stations of Kazhydromet: Fort-Shevchenko, Aktau, Fetisovo, Saura, Kuryk, Peschanyi and Roshydromet (Makhachkala), the average value of the level of the Caspian Sea, in its deep part, corresponded to minus 29.42 m, the maximum minus 28.98 m, the minimum minus 29.98 m.

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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