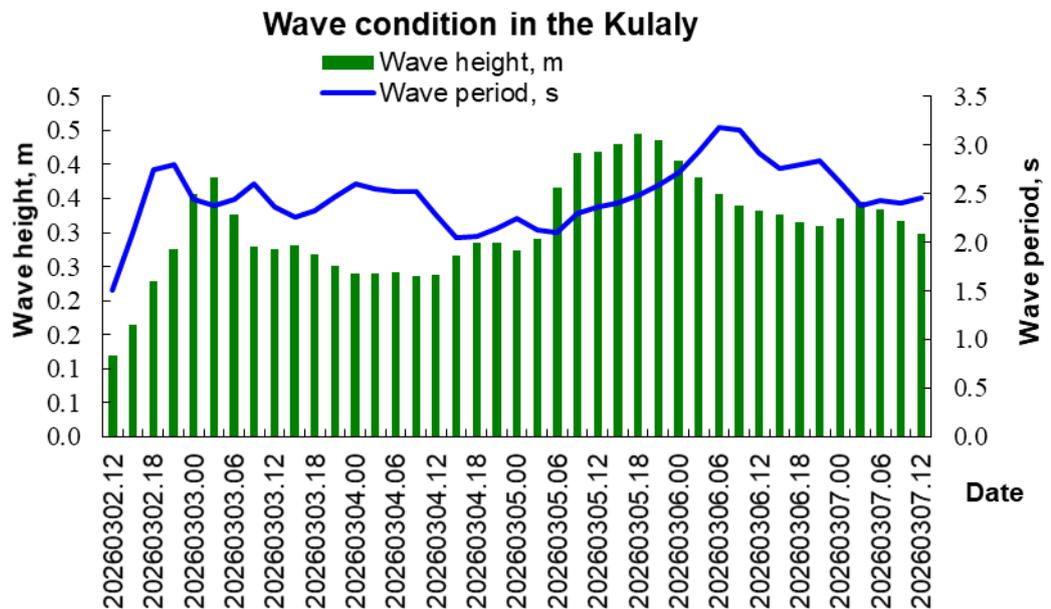
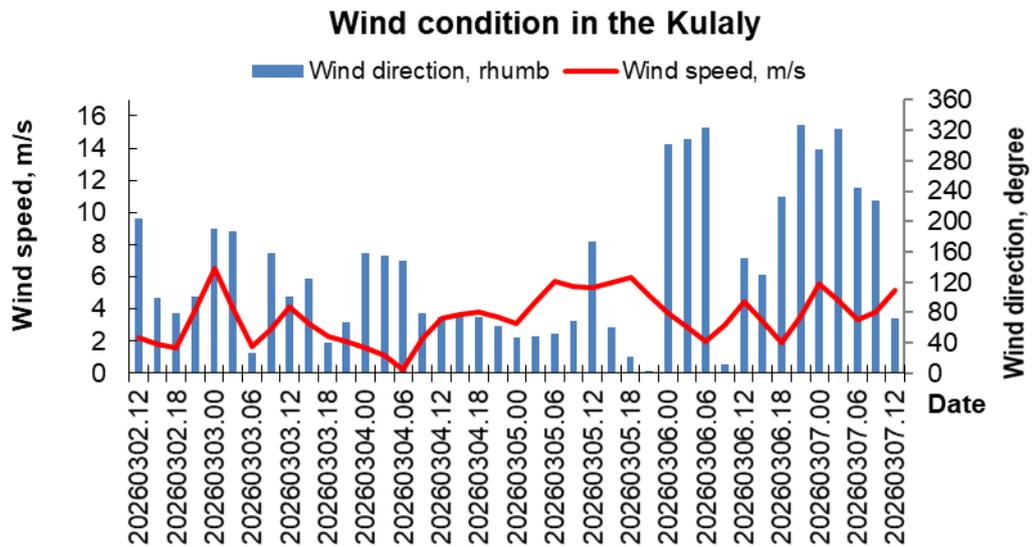




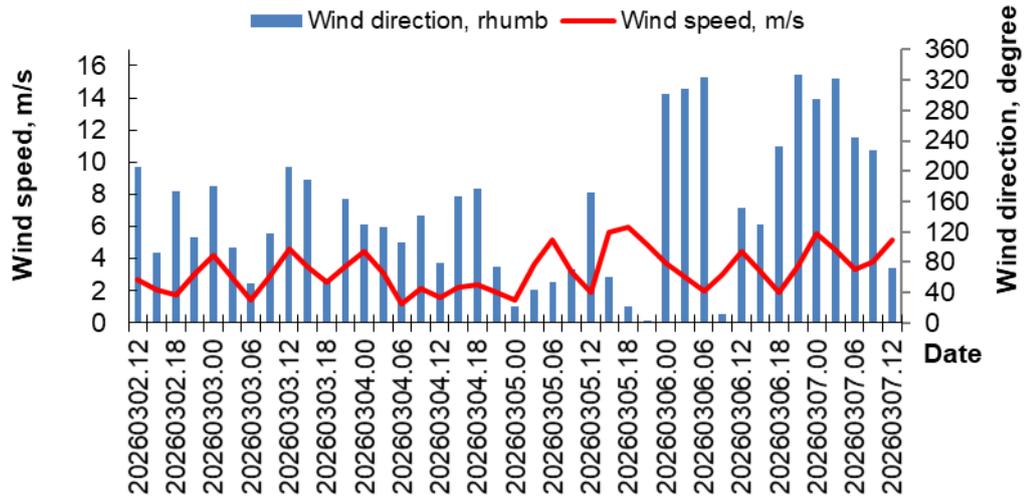
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period March 02-07, 2026 .**

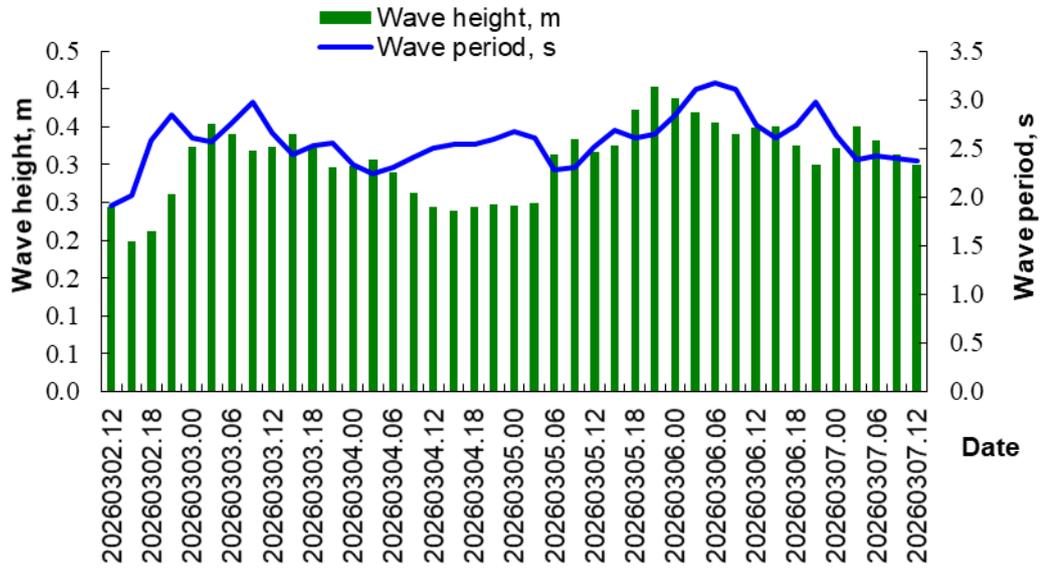


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260302.12	0.12	SW	1.5	2	SW
20260302.15	0.17	SW	2.1	2	E
20260302.18	0.23	SW	2.7	2	E
20260302.21	0.28	SW	2.8	4	E
20260303.00	0.36	SW	2.4	7	S
20260303.03	0.38	SW	2.4	4	S
20260303.06	0.33	SW	2.4	2	NE
20260303.09	0.28	SW	2.6	3	S
20260303.12	0.28	SW	2.4	4	E
20260303.15	0.28	SW	2.3	3	SE
20260303.18	0.27	S	2.3	2	NE
20260303.21	0.25	S	2.5	2	NE
20260304.00	0.24	S	2.6	2	S
20260304.03	0.24	S	2.5	1	SE
20260304.06	0.24	S	2.5	0	SE
20260304.09	0.24	S	2.5	2	E
20260304.12	0.24	E	2.3	3	E
20260304.15	0.27	NE	2.0	4	E
20260304.18	0.28	NE	2.1	4	E
20260304.21	0.28	NE	2.1	3	NE
20260305.00	0.27	NE	2.2	3	NE
20260305.03	0.29	NE	2.1	4	NE
20260305.06	0.37	NE	2.1	6	NE
20260305.09	0.42	NE	2.3	5	E
20260305.12	0.42	NE	2.4	5	S
20260305.15	0.43	NE	2.4	6	NE
20260305.18	0.45	NE	2.5	6	N
20260305.21	0.44	NE	2.6	5	N
20260306.00	0.41	NE	2.7	4	NW
20260306.03	0.38	NE	2.9	3	NW
20260306.06	0.36	NE	3.2	2	NW
20260306.09	0.34	NE	3.2	3	N
20260306.12	0.33	NE	2.9	4	SE
20260306.15	0.33	NE	2.8	3	SE
20260306.18	0.31	NE	2.8	2	SW
20260306.21	0.31	NE	2.8	4	NW
20260307.00	0.32	NE	2.6	6	NW
20260307.03	0.35	E	2.4	4	NW
20260307.06	0.33	E	2.4	3	SW
20260307.09	0.32	E	2.4	4	SW
20260307.12	0.30	E	2.5	5	E

Wind condition in the Fort-Shevchenko

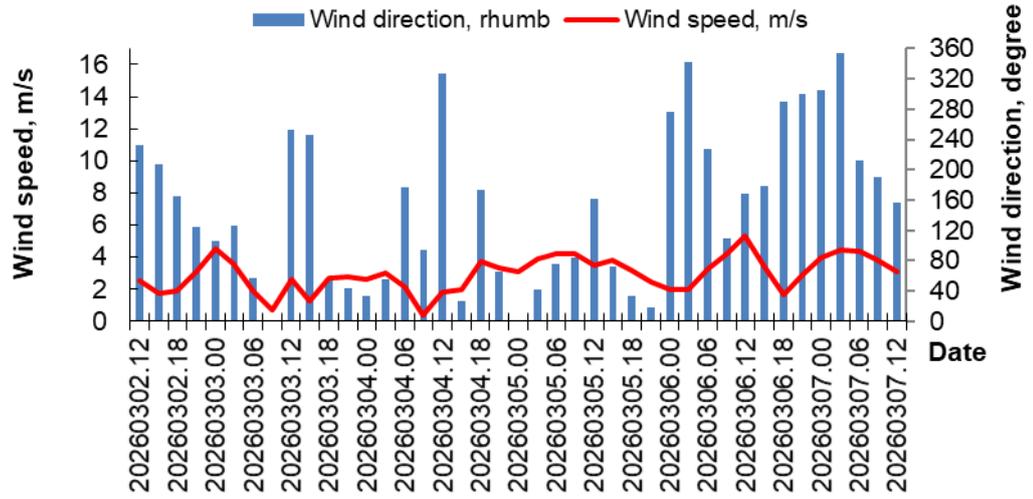


Wave condition in the Fort-Shevchenko

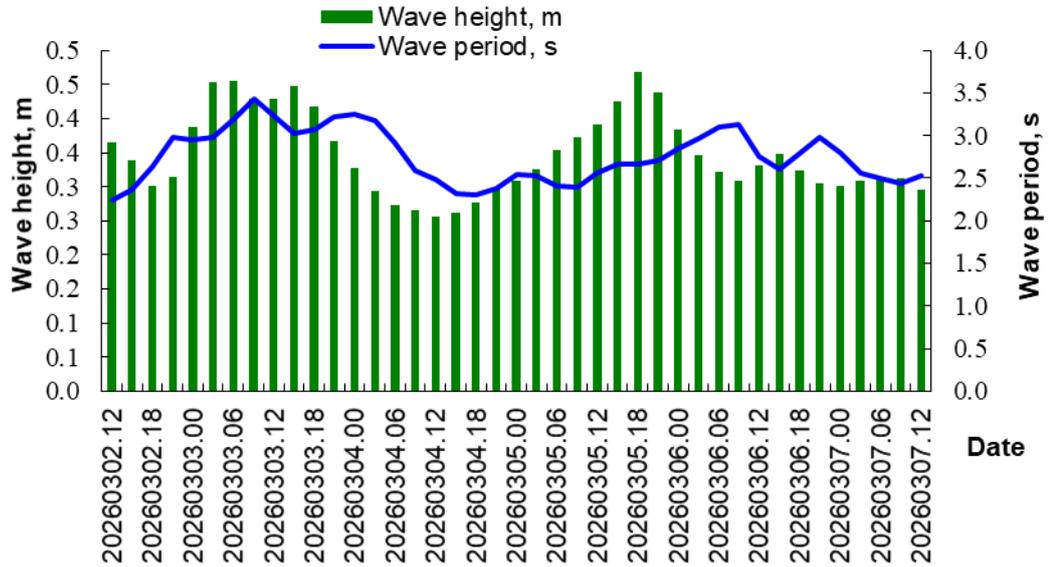


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260302.12	0.24	SW	1.9	3	SW
20260302.15	0.20	SW	2.0	2	E
20260302.18	0.21	SW	2.6	2	S
20260302.21	0.26	SW	2.8	3	SE
20260303.00	0.32	SW	2.6	4	S
20260303.03	0.35	SW	2.6	3	E
20260303.06	0.34	SW	2.8	1	NE
20260303.09	0.32	SW	3.0	3	SE
20260303.12	0.32	SW	2.7	5	SW
20260303.15	0.34	SW	2.4	4	S
20260303.18	0.32	S	2.5	3	NE
20260303.21	0.30	S	2.6	3	S
20260304.00	0.30	SW	2.3	4	SE
20260304.03	0.31	SW	2.2	3	SE
20260304.06	0.29	SW	2.3	1	E
20260304.09	0.26	SW	2.4	2	SE
20260304.12	0.24	SE	2.5	2	E
20260304.15	0.24	E	2.5	2	S
20260304.18	0.24	E	2.5	2	S
20260304.21	0.25	E	2.6	2	E
20260305.00	0.25	E	2.7	1	N
20260305.03	0.25	E	2.6	4	NE
20260305.06	0.31	NE	2.3	5	NE
20260305.09	0.33	NE	2.3	3	E
20260305.12	0.32	NE	2.5	2	S
20260305.15	0.33	NE	2.7	6	NE
20260305.18	0.37	NE	2.6	6	N
20260305.21	0.40	NE	2.6	5	N
20260306.00	0.39	NE	2.8	4	NW
20260306.03	0.37	NE	3.1	3	NW
20260306.06	0.35	NE	3.2	2	NW
20260306.09	0.34	NE	3.1	3	N
20260306.12	0.35	NE	2.7	4	SE
20260306.15	0.35	NE	2.6	3	SE
20260306.18	0.32	NE	2.7	2	SW
20260306.21	0.30	NE	3.0	4	NW
20260307.00	0.32	NE	2.6	6	NW
20260307.03	0.35	E	2.4	4	NW
20260307.06	0.33	E	2.4	3	SW
20260307.09	0.31	E	2.4	4	SW
20260307.12	0.30	E	2.4	5	E

Wind condition in the Aktau

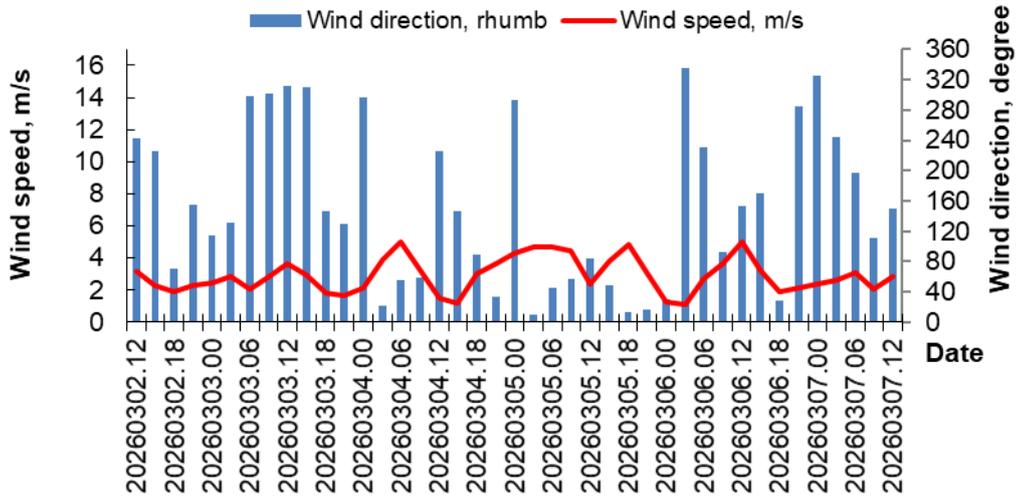


Wave condition in the Aktau

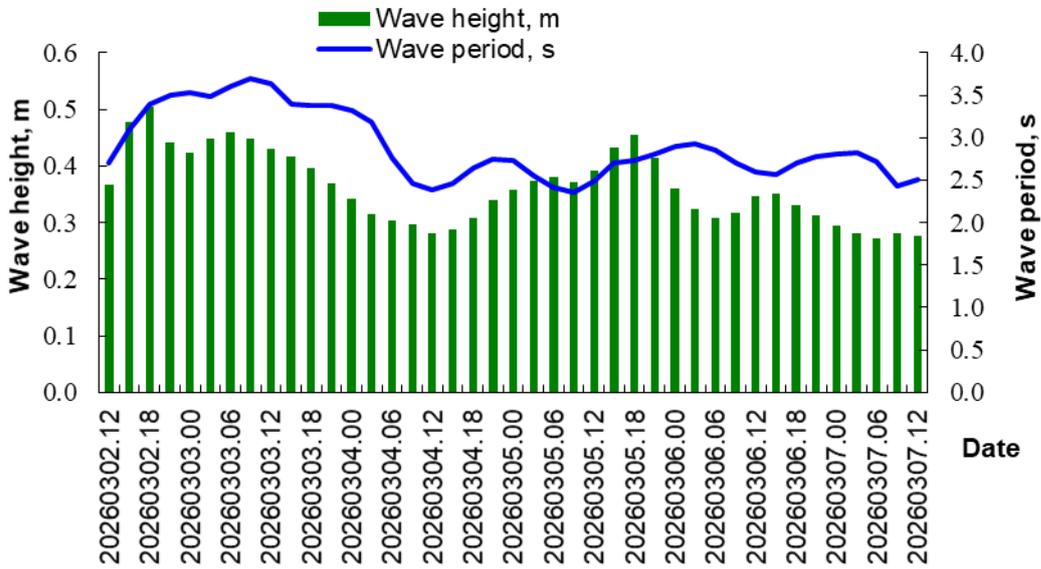


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260302.12	0.36	SW	2.3	3	SW
20260302.15	0.34	S	2.4	2	SW
20260302.18	0.30	S	2.6	2	S
20260302.21	0.31	S	3.0	3	SE
20260303.00	0.39	SW	3.0	5	E
20260303.03	0.45	SW	3.0	4	SE
20260303.06	0.45	SW	3.2	2	NE
20260303.09	0.43	S	3.4	1	N
20260303.12	0.43	SW	3.2	3	W
20260303.15	0.45	SW	3.0	1	SW
20260303.18	0.42	SW	3.1	3	NE
20260303.21	0.37	SW	3.2	3	NE
20260304.00	0.33	SW	3.3	3	NE
20260304.03	0.29	S	3.2	3	NE
20260304.06	0.27	S	2.9	2	S
20260304.09	0.27	S	2.6	0	E
20260304.12	0.26	SE	2.5	2	NW
20260304.15	0.26	SE	2.3	2	NE
20260304.18	0.28	E	2.3	4	S
20260304.21	0.30	E	2.4	3	NE
20260305.00	0.31	E	2.6	3	N
20260305.03	0.33	E	2.5	4	NE
20260305.06	0.35	E	2.4	4	E
20260305.09	0.37	NE	2.4	4	E
20260305.12	0.39	NE	2.6	3	S
20260305.15	0.42	NE	2.7	4	E
20260305.18	0.47	NE	2.7	3	NE
20260305.21	0.44	NE	2.7	2	N
20260306.00	0.38	NE	2.8	2	W
20260306.03	0.35	NE	3.0	2	N
20260306.06	0.32	NE	3.1	3	SW
20260306.09	0.31	NE	3.1	4	E
20260306.12	0.33	NE	2.8	5	S
20260306.15	0.35	NE	2.6	3	S
20260306.18	0.32	NE	2.8	2	W
20260306.21	0.30	NE	3.0	3	NW
20260307.00	0.30	NE	2.8	4	NW
20260307.03	0.31	NE	2.6	4	N
20260307.06	0.31	NE	2.5	4	SW
20260307.09	0.31	E	2.4	4	S
20260307.12	0.30	E	2.5	3	SE

Wind condition in the Peschanyi

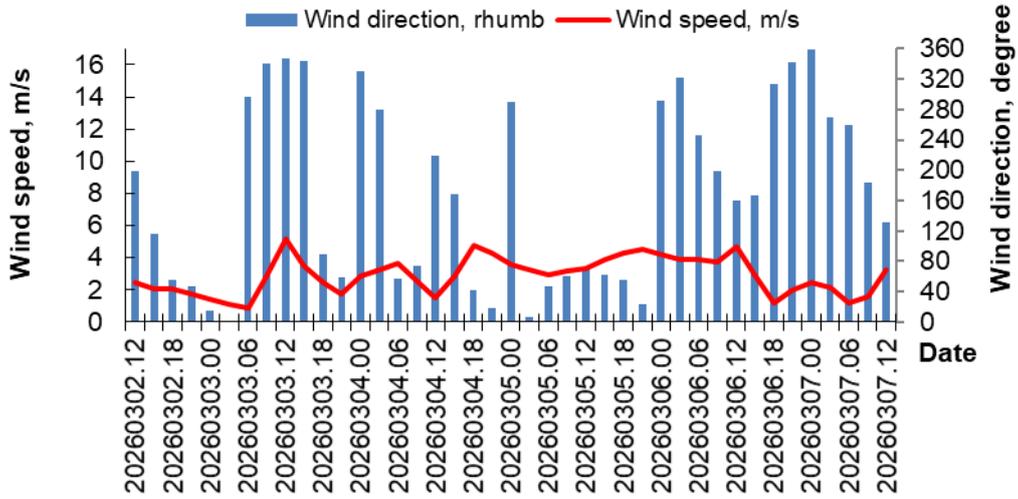


Wave condition in the Peschanyi

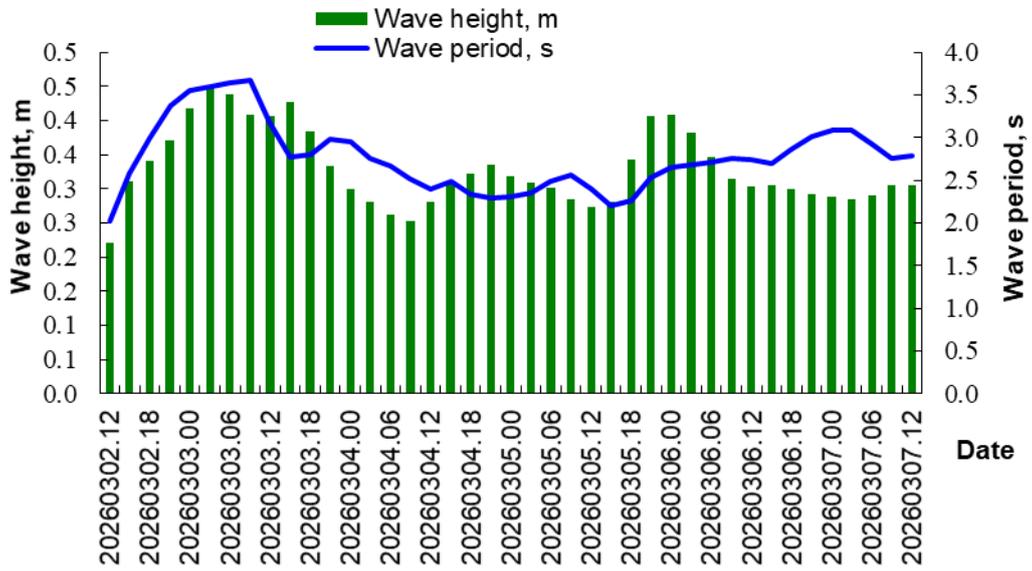


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260302.12	0.37	SW	2.7	3	SW
20260302.15	0.48	S	3.1	2	SW
20260302.18	0.50	S	3.4	2	E
20260302.21	0.44	S	3.5	2	SE
20260303.00	0.42	S	3.5	2	SE
20260303.03	0.45	S	3.5	3	SE
20260303.06	0.46	S	3.6	2	NW
20260303.09	0.45	S	3.7	3	NW
20260303.12	0.43	S	3.6	4	NW
20260303.15	0.42	S	3.4	3	NW
20260303.18	0.40	S	3.4	2	SE
20260303.21	0.37	S	3.4	2	SE
20260304.00	0.34	S	3.3	2	NW
20260304.03	0.31	S	3.2	4	N
20260304.06	0.30	S	2.8	5	NE
20260304.09	0.30	SE	2.5	3	NE
20260304.12	0.28	SE	2.4	1	SW
20260304.15	0.29	SE	2.5	1	SE
20260304.18	0.31	E	2.6	3	E
20260304.21	0.34	E	2.7	4	NE
20260305.00	0.36	E	2.7	4	NW
20260305.03	0.37	E	2.5	5	N
20260305.06	0.38	E	2.4	5	NE
20260305.09	0.37	E	2.4	4	NE
20260305.12	0.39	NE	2.5	2	E
20260305.15	0.43	E	2.7	4	NE
20260305.18	0.46	E	2.7	5	N
20260305.21	0.41	E	2.8	3	N
20260306.00	0.36	E	2.9	1	NE
20260306.03	0.32	E	2.9	1	NW
20260306.06	0.31	NE	2.9	3	SW
20260306.09	0.32	NE	2.7	4	E
20260306.12	0.35	NE	2.6	5	SE
20260306.15	0.35	NE	2.6	3	S
20260306.18	0.33	NE	2.7	2	NE
20260306.21	0.31	NE	2.8	2	W
20260307.00	0.30	NE	2.8	2	NW
20260307.03	0.28	NE	2.8	3	SW
20260307.06	0.27	NE	2.7	3	S
20260307.09	0.28	NE	2.4	2	E
20260307.12	0.28	NE	2.5	3	SE

Wind condition in the Fetisovo

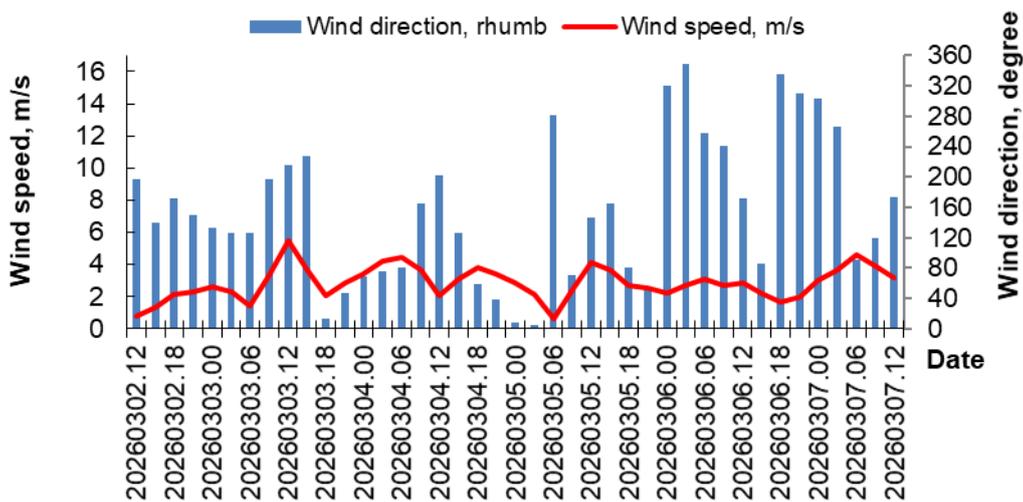


Wave condition in the Fetisovo

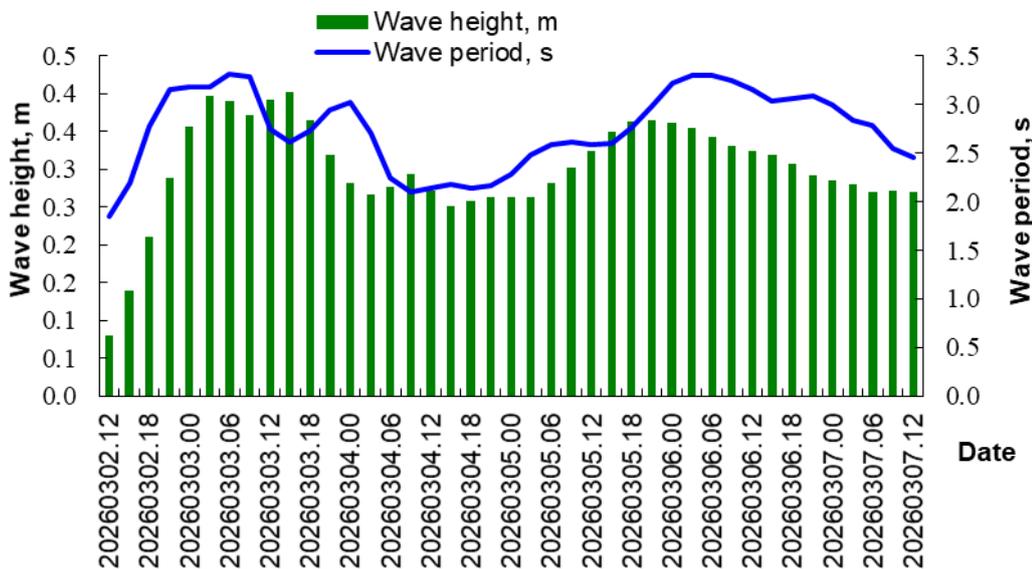


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260302.12	0.22	SW	2.0	2	S
20260302.15	0.31	S	2.6	2	SE
20260302.18	0.34	S	3.0	2	NE
20260302.21	0.37	S	3.4	2	NE
20260303.00	0.42	S	3.6	1	N
20260303.03	0.45	SW	3.6	1	N
20260303.06	0.44	SW	3.6	1	NW
20260303.09	0.41	SW	3.7	3	N
20260303.12	0.41	S	3.2	5	N
20260303.15	0.43	S	2.8	4	N
20260303.18	0.38	S	2.8	2	E
20260303.21	0.33	S	3.0	2	NE
20260304.00	0.30	S	2.9	3	NW
20260304.03	0.28	S	2.8	3	W
20260304.06	0.26	S	2.7	4	NE
20260304.09	0.25	SE	2.5	3	E
20260304.12	0.28	SE	2.4	2	SW
20260304.15	0.31	SE	2.5	3	S
20260304.18	0.32	E	2.3	5	NE
20260304.21	0.33	E	2.3	4	N
20260305.00	0.32	E	2.3	4	W
20260305.03	0.31	E	2.4	3	N
20260305.06	0.30	E	2.5	3	NE
20260305.09	0.28	NE	2.6	3	NE
20260305.12	0.27	NE	2.4	3	E
20260305.15	0.28	NE	2.2	4	NE
20260305.18	0.34	NE	2.3	4	NE
20260305.21	0.41	NE	2.5	4	NE
20260306.00	0.41	NE	2.7	4	W
20260306.03	0.38	NE	2.7	4	NW
20260306.06	0.35	NE	2.7	4	SW
20260306.09	0.32	NE	2.8	4	S
20260306.12	0.30	NE	2.7	5	S
20260306.15	0.31	NE	2.7	3	S
20260306.18	0.30	NE	2.9	1	NW
20260306.21	0.29	NE	3.0	2	N
20260307.00	0.29	NE	3.1	2	N
20260307.03	0.28	NE	3.1	2	W
20260307.06	0.29	NE	2.9	1	W
20260307.09	0.31	NE	2.8	2	S
20260307.12	0.31	E	2.8	3	SE

Wind condition in the Saura

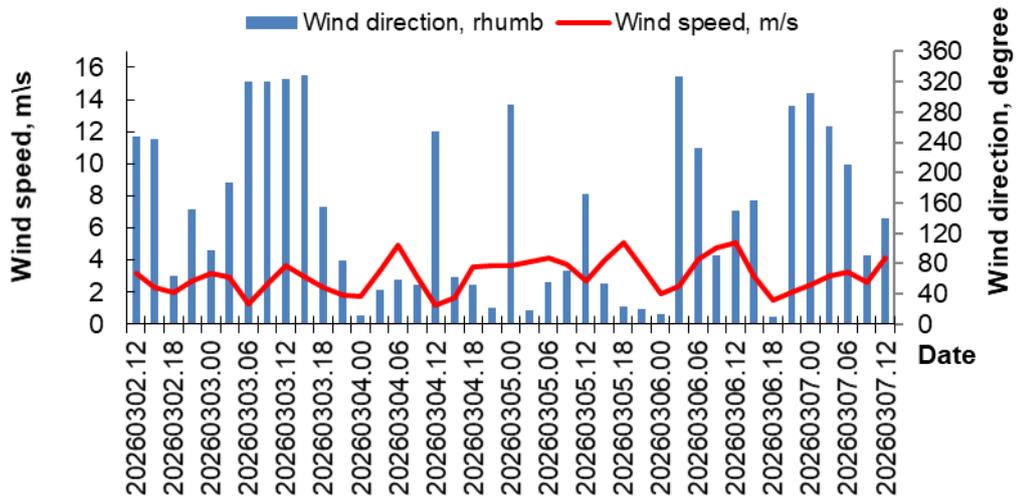


Wave condition in the Saura

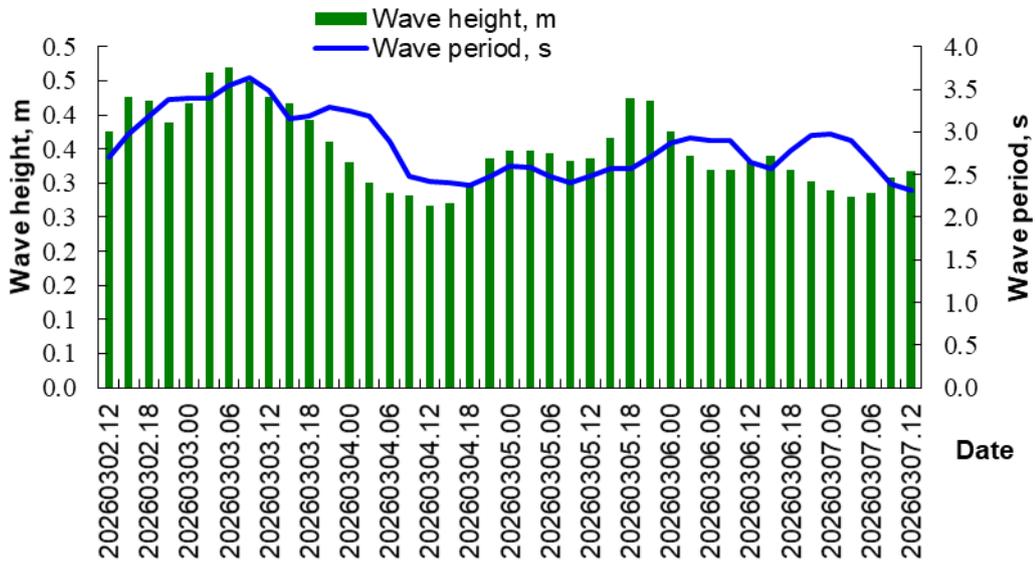


Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260302.12	0.08	SW	1.8	1	S
20260302.15	0.14	SW	2.2	1	SE
20260302.18	0.21	SW	2.8	2	S
20260302.21	0.29	SW	3.2	2	SE
20260303.00	0.36	SW	3.2	3	SE
20260303.03	0.40	SW	3.2	2	SE
20260303.06	0.39	SW	3.3	1	SE
20260303.09	0.37	S	3.3	3	S
20260303.12	0.39	SW	2.8	5	SW
20260303.15	0.40	SW	2.6	4	SW
20260303.18	0.37	SW	2.7	2	N
20260303.21	0.32	S	2.9	3	NE
20260304.00	0.28	S	3.0	3	E
20260304.03	0.27	S	2.7	4	E
20260304.06	0.28	S	2.2	4	E
20260304.09	0.29	N	2.1	4	S
20260304.12	0.27	N	2.1	2	S
20260304.15	0.25	NE	2.2	3	SE
20260304.18	0.26	NE	2.1	4	NE
20260304.21	0.26	NE	2.2	3	NE
20260305.00	0.26	E	2.3	3	N
20260305.03	0.26	E	2.5	2	N
20260305.06	0.28	E	2.6	1	W
20260305.09	0.30	NE	2.6	2	E
20260305.12	0.32	NE	2.6	4	SE
20260305.15	0.35	NE	2.6	4	S
20260305.18	0.36	NE	2.8	3	E
20260305.21	0.37	NE	3.0	3	NE
20260306.00	0.36	NE	3.2	2	NW
20260306.03	0.35	NE	3.3	3	N
20260306.06	0.34	NE	3.3	3	W
20260306.09	0.33	NE	3.3	3	SW
20260306.12	0.32	NE	3.2	3	S
20260306.15	0.32	NE	3.0	2	E
20260306.18	0.31	NE	3.1	2	NW
20260306.21	0.29	NE	3.1	2	NW
20260307.00	0.29	NE	3.0	3	NW
20260307.03	0.28	NE	2.8	4	W
20260307.06	0.27	NE	2.8	5	E
20260307.09	0.27	NE	2.5	4	SE
20260307.12	0.27	NE	2.5	3	S

Wind condition in the Kuryik



Wave condition in the Kuryik



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260302.12	0.38	SW	2.7	3	SW
20260302.15	0.43	S	3.0	2	SW
20260302.18	0.42	S	3.2	2	NE
20260302.21	0.39	S	3.4	3	SE
20260303.00	0.42	S	3.4	3	E
20260303.03	0.46	S	3.4	3	S
20260303.06	0.47	S	3.5	1	NW
20260303.09	0.45	S	3.6	2	NW
20260303.12	0.43	S	3.5	4	NW
20260303.15	0.42	S	3.2	3	NW
20260303.18	0.39	S	3.2	2	SE
20260303.21	0.36	S	3.3	2	E
20260304.00	0.33	S	3.3	2	N
20260304.03	0.30	S	3.2	3	NE
20260304.06	0.29	S	2.9	5	NE
20260304.09	0.28	SE	2.5	3	NE
20260304.12	0.27	SE	2.4	1	W
20260304.15	0.27	SE	2.4	2	NE
20260304.18	0.30	E	2.4	4	NE
20260304.21	0.34	E	2.5	4	N
20260305.00	0.35	E	2.6	4	W
20260305.03	0.35	E	2.6	4	N
20260305.06	0.34	E	2.5	4	NE
20260305.09	0.33	E	2.4	4	E
20260305.12	0.34	NE	2.5	3	S
20260305.15	0.37	NE	2.6	4	NE
20260305.18	0.42	NE	2.6	5	NE
20260305.21	0.42	NE	2.7	4	N
20260306.00	0.38	NE	2.9	2	N
20260306.03	0.34	NE	2.9	2	NW
20260306.06	0.32	NE	2.9	4	SW
20260306.09	0.32	NE	2.9	5	E
20260306.12	0.33	NE	2.7	5	SE
20260306.15	0.34	NE	2.6	3	S
20260306.18	0.32	NE	2.8	1	N
20260306.21	0.30	NE	3.0	2	W
20260307.00	0.29	NE	3.0	2	NW
20260307.03	0.28	NE	2.9	3	W
20260307.06	0.28	NE	2.7	3	SW
20260307.09	0.31	NE	2.4	3	E
20260307.12	0.32	NE	2.3	4	SE

**Calculation characteristics were obtained using the SWAN wave model, adapted in RSE «Kazhydromet» to the conditions of the Caspian Sea.*

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Checked by: Shishkina G.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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