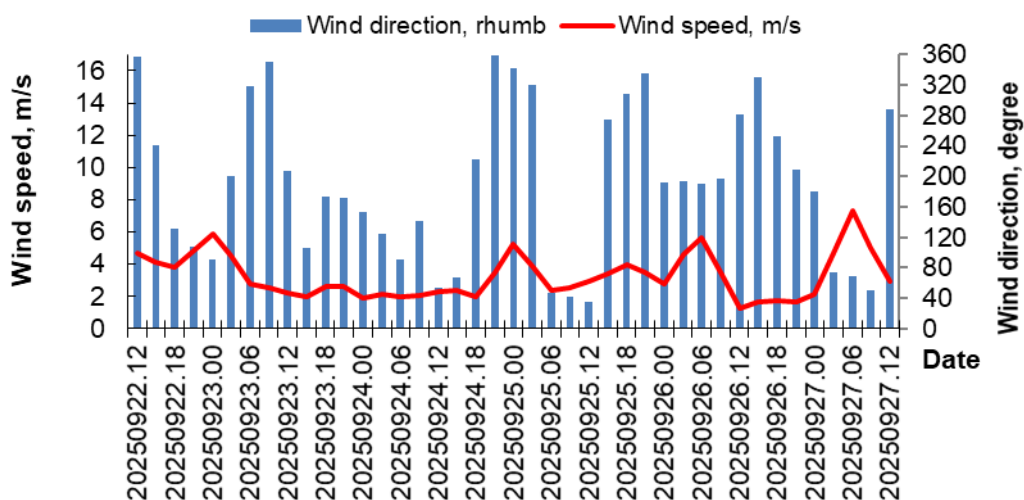




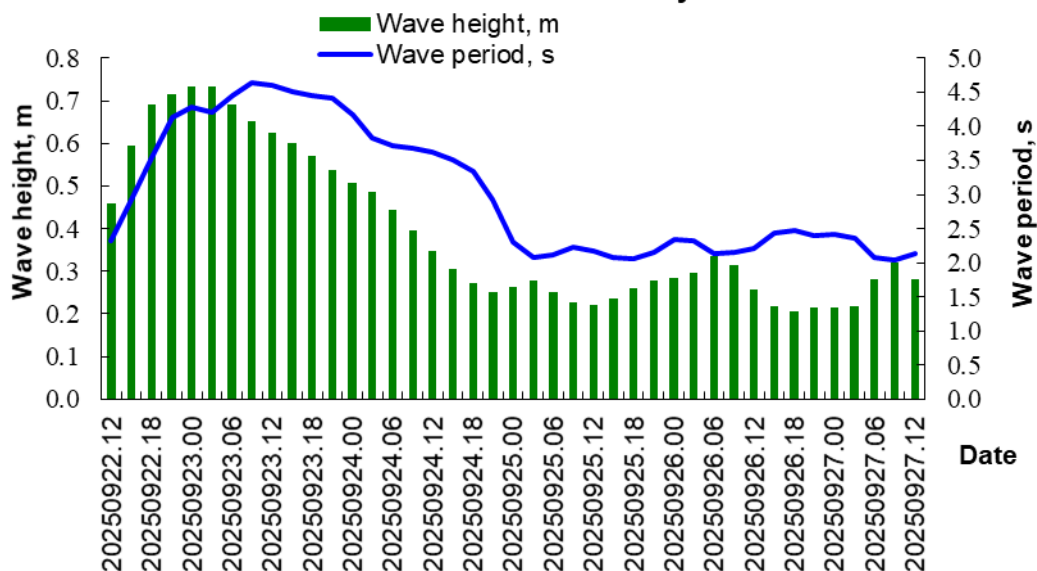
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period September 22 – 27, 2025.**

Wind condition in the Kulaly

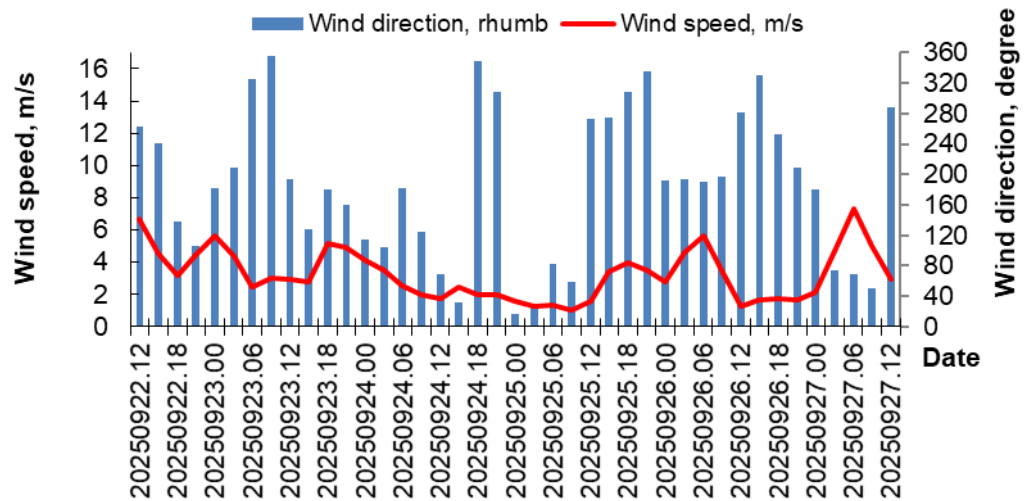


Wave condition in the Kulaly

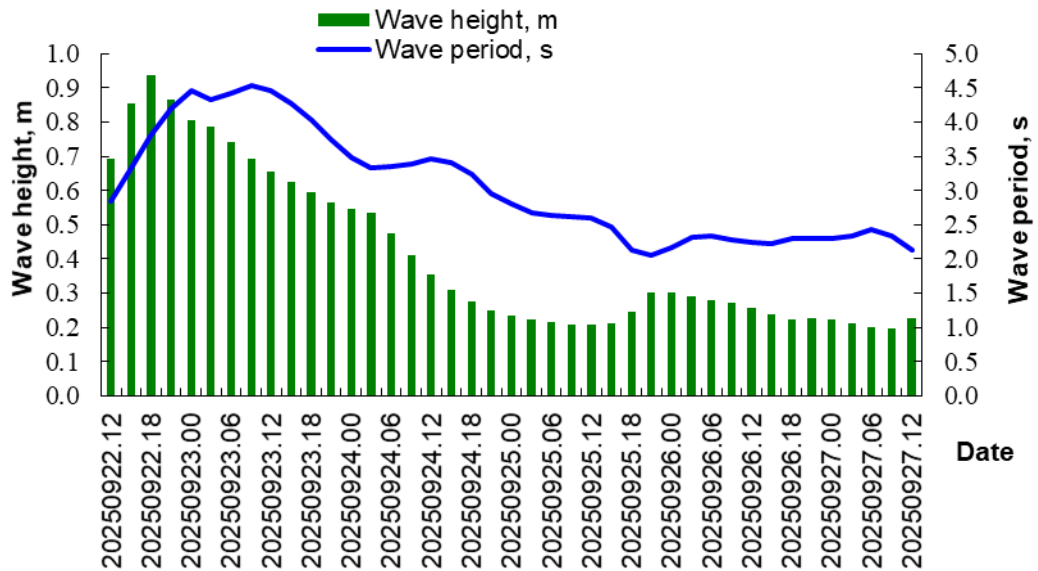


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250922.12	0.46	S	2.3	5	N
20250922.15	0.60	S	2.9	4	SW
20250922.18	0.69	S	3.5	4	SE
20250922.21	0.71	S	4.1	5	E
20250923.00	0.73	S	4.3	6	E
20250923.03	0.73	S	4.2	5	S
20250923.06	0.69	S	4.4	3	NW
20250923.09	0.65	S	4.6	3	N
20250923.12	0.62	S	4.6	2	SW
20250923.15	0.60	S	4.5	2	E
20250923.18	0.57	S	4.4	3	S
20250923.21	0.54	S	4.4	3	S
20250924.00	0.51	S	4.2	2	SE
20250924.03	0.49	S	3.8	2	SE
20250924.06	0.44	S	3.7	2	E
20250924.09	0.39	S	3.7	2	SE
20250924.12	0.35	S	3.6	2	NE
20250924.15	0.31	S	3.5	2	NE
20250924.18	0.27	S	3.3	2	SW
20250924.21	0.25	S	2.9	3	N
20250925.00	0.26	S	2.3	5	N
20250925.03	0.28	S	2.1	4	NW
20250925.06	0.25	S	2.1	2	NE
20250925.09	0.23	S	2.2	3	NE
20250925.12	0.22	S	2.2	3	NE
20250925.15	0.23	SE	2.1	3	W
20250925.18	0.26	SE	2.1	4	NW
20250925.21	0.28	S	2.1	3	NW
20250926.00	0.28	S	2.3	3	S
20250926.03	0.30	S	2.3	5	S
20250926.06	0.34	SW	2.1	6	S
20250926.09	0.31	SW	2.1	4	S
20250926.12	0.26	SW	2.2	1	W
20250926.15	0.22	S	2.4	2	NW
20250926.18	0.21	S	2.5	2	W
20250926.21	0.21	S	2.4	2	SW
20250927.00	0.22	S	2.4	2	S
20250927.03	0.22	S	2.4	5	E
20250927.06	0.28	N	2.1	7	E
20250927.09	0.32	N	2.0	5	NE
20250927.12	0.28	NE	2.1	3	W

Wind condition in the Fort-Shevchenko

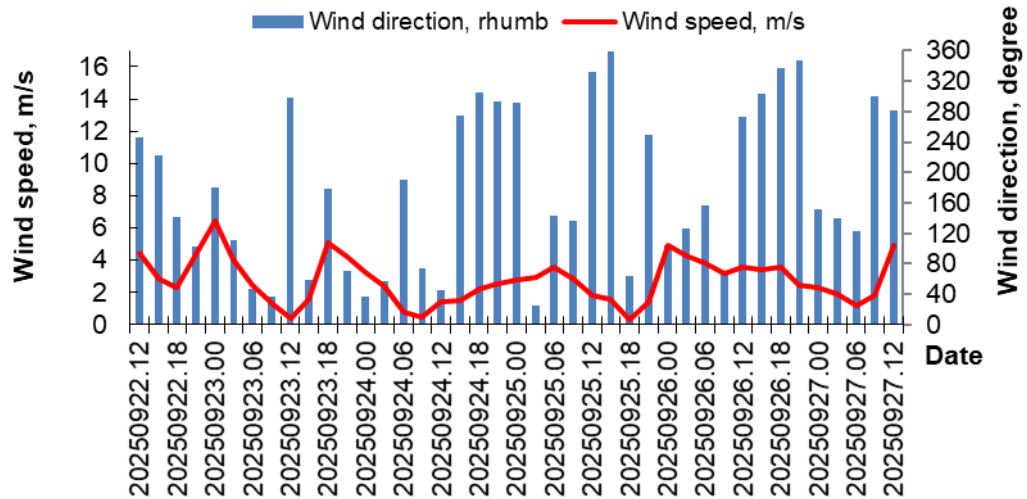


Wave condition in the Fort-Shevchenko

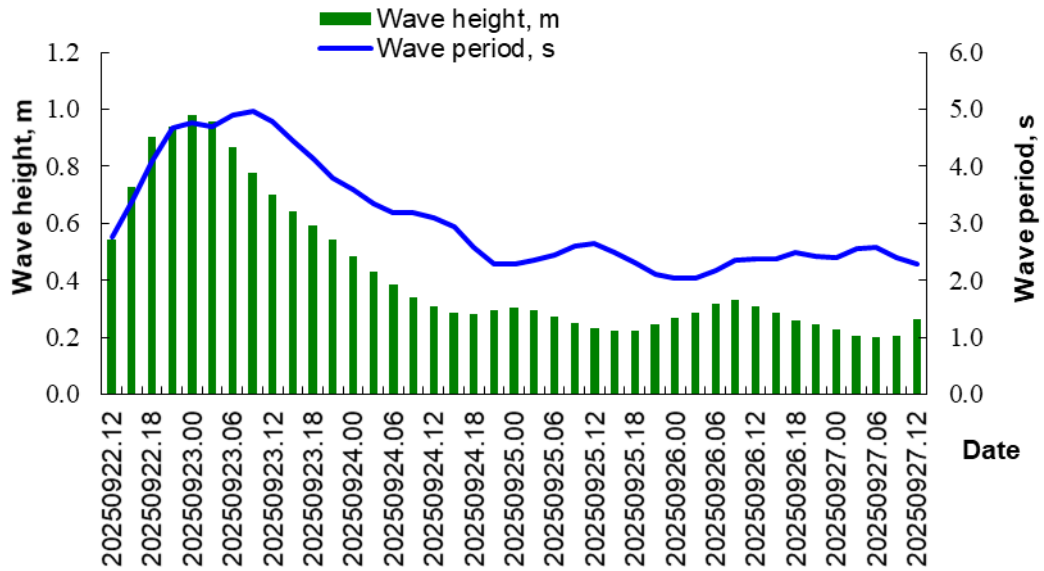


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250922.12	0.69	S	2.8	7	W
20250922.15	0.86	S	3.3	5	SW
20250922.18	0.94	S	3.8	3	SE
20250922.21	0.86	S	4.2	4	E
20250923.00	0.81	S	4.5	6	S
20250923.03	0.78	S	4.3	4	SW
20250923.06	0.74	S	4.4	2	NW
20250923.09	0.69	S	4.5	3	N
20250923.12	0.65	S	4.5	3	S
20250923.15	0.63	S	4.3	3	SE
20250923.18	0.60	S	4.0	5	S
20250923.21	0.56	S	3.8	5	S
20250924.00	0.55	S	3.5	4	SE
20250924.03	0.53	S	3.3	4	E
20250924.06	0.48	S	3.4	3	S
20250924.09	0.41	S	3.4	2	SE
20250924.12	0.35	S	3.5	2	E
20250924.15	0.31	S	3.4	2	NE
20250924.18	0.27	S	3.2	2	N
20250924.21	0.25	S	3.0	2	NW
20250925.00	0.23	S	2.8	2	N
20250925.03	0.22	S	2.7	1	NE
20250925.06	0.21	S	2.6	1	E
20250925.09	0.21	S	2.6	1	NE
20250925.12	0.21	S	2.6	2	W
20250925.15	0.21	S	2.5	3	W
20250925.18	0.25	SE	2.1	4	NW
20250925.21	0.30	SE	2.1	3	NW
20250926.00	0.30	S	2.2	3	S
20250926.03	0.29	S	2.3	5	S
20250926.06	0.28	S	2.3	6	S
20250926.09	0.27	SW	2.3	4	S
20250926.12	0.26	W	2.2	1	W
20250926.15	0.24	NW	2.2	2	NW
20250926.18	0.22	W	2.3	2	W
20250926.21	0.23	S	2.3	2	SW
20250927.00	0.22	S	2.3	2	S
20250927.03	0.21	S	2.3	5	E
20250927.06	0.20	S	2.4	7	E
20250927.09	0.20	SE	2.3	5	NE
20250927.12	0.23	E	2.1	3	W

Wind condition in the Aktau

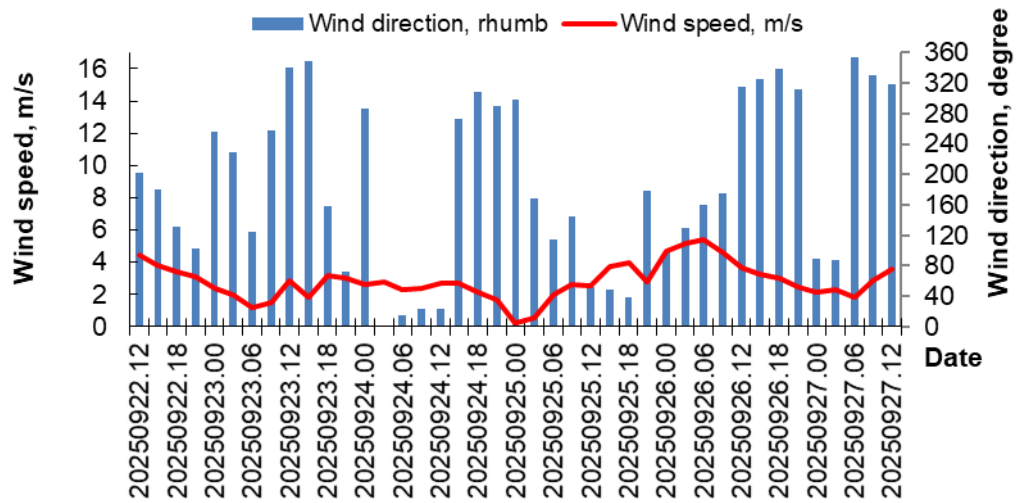


Wave condition in the Aktau

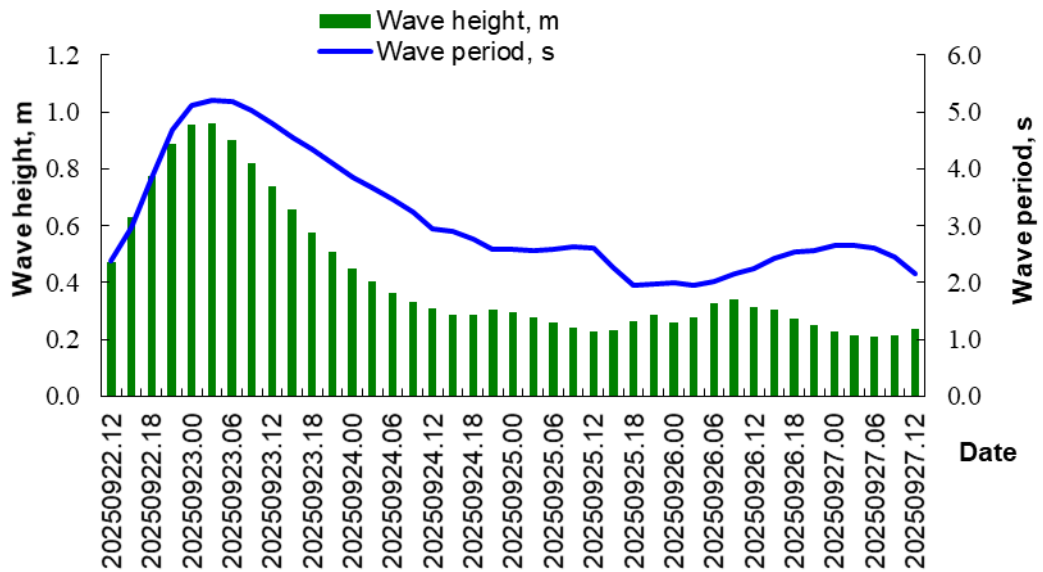


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250922.12	0.54	S	2.7	4	SW
20250922.15	0.73	S	3.4	3	SW
20250922.18	0.90	S	4.1	2	SE
20250922.21	0.94	S	4.7	4	E
20250923.00	0.98	S	4.8	6	S
20250923.03	0.96	S	4.7	4	E
20250923.06	0.87	S	4.9	2	NE
20250923.09	0.77	S	5.0	1	NE
20250923.12	0.70	S	4.8	0	NW
20250923.15	0.64	S	4.4	2	NE
20250923.18	0.59	S	4.1	5	S
20250923.21	0.54	S	3.8	4	E
20250924.00	0.48	S	3.6	3	NE
20250924.03	0.43	S	3.3	2	NE
20250924.06	0.39	S	3.2	1	S
20250924.09	0.34	S	3.2	0	E
20250924.12	0.31	SW	3.1	1	NE
20250924.15	0.29	SW	2.9	1	W
20250924.18	0.28	S	2.6	2	NW
20250924.21	0.29	S	2.3	3	W
20250925.00	0.30	SE	2.3	3	W
20250925.03	0.30	SE	2.3	3	NE
20250925.06	0.27	SE	2.4	4	SE
20250925.09	0.25	SE	2.6	3	SE
20250925.12	0.23	SE	2.7	2	NW
20250925.15	0.22	SE	2.5	2	N
20250925.18	0.22	SE	2.3	0	NE
20250925.21	0.24	SE	2.1	1	W
20250926.00	0.27	SW	2.0	5	E
20250926.03	0.29	W	2.0	4	SE
20250926.06	0.32	NW	2.2	4	SE
20250926.09	0.33	NW	2.4	3	E
20250926.12	0.31	NW	2.4	4	W
20250926.15	0.29	N	2.4	3	NW
20250926.18	0.26	N	2.5	4	NW
20250926.21	0.24	NE	2.4	2	N
20250927.00	0.22	E	2.4	2	SE
20250927.03	0.21	E	2.5	2	SE
20250927.06	0.20	NE	2.6	1	SE
20250927.09	0.20	NE	2.4	2	NW
20250927.12	0.26	E	2.3	5	W

Wind condition in the Peschanyi

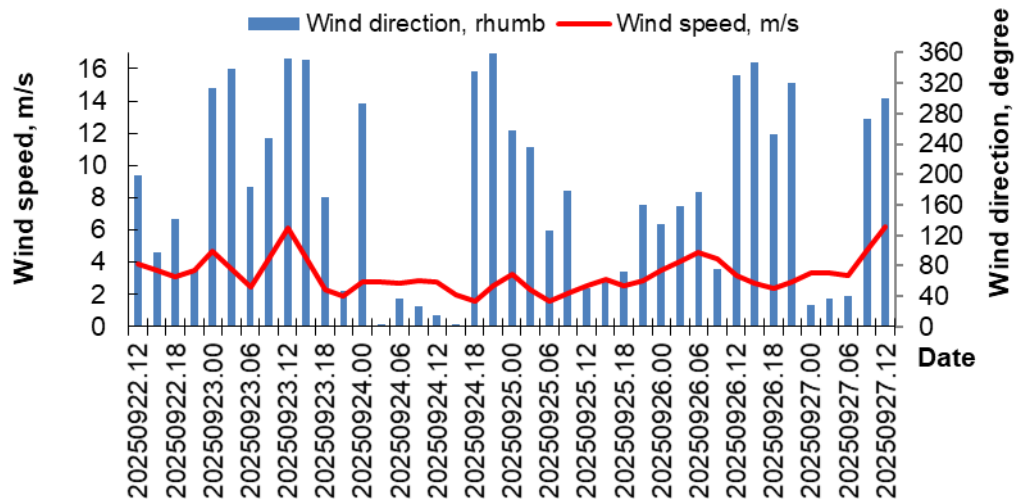


Wave condition in the Peschanyi

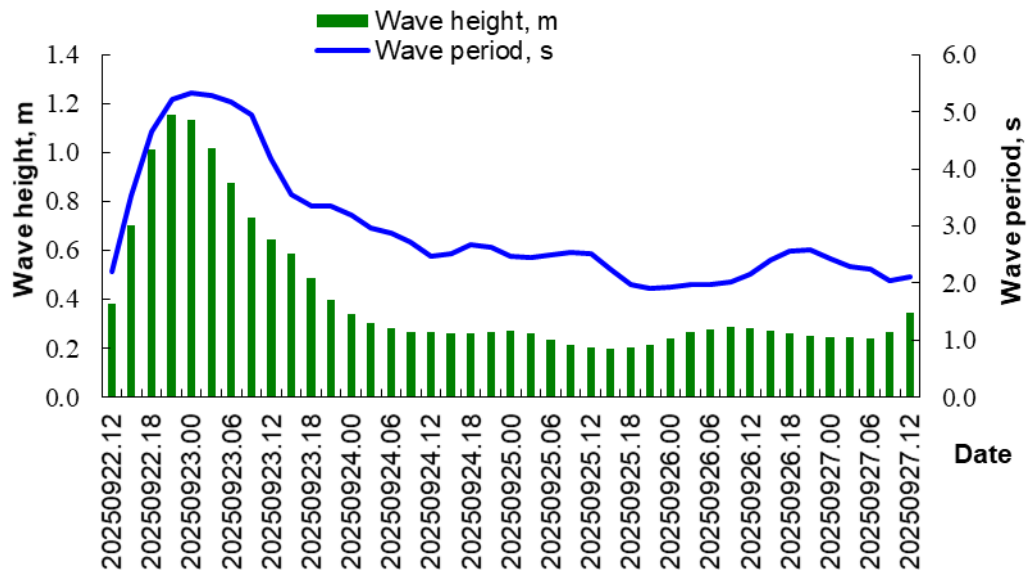


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250922.12	0.47	SW	2.4	4	S
20250922.15	0.63	SW	3.0	4	S
20250922.18	0.77	SW	3.8	3	SE
20250922.21	0.89	SW	4.7	3	E
20250923.00	0.96	S	5.1	2	W
20250923.03	0.96	S	5.2	2	SW
20250923.06	0.90	S	5.2	1	SE
20250923.09	0.82	S	5.0	2	W
20250923.12	0.74	S	4.8	3	N
20250923.15	0.66	S	4.6	2	N
20250923.18	0.58	S	4.3	3	S
20250923.21	0.51	S	4.1	3	E
20250924.00	0.45	S	3.9	3	W
20250924.03	0.40	S	3.7	3	N
20250924.06	0.36	S	3.5	2	N
20250924.09	0.33	S	3.2	2	NE
20250924.12	0.31	S	3.0	3	NE
20250924.15	0.29	S	2.9	3	W
20250924.18	0.29	S	2.8	2	NW
20250924.21	0.31	S	2.6	2	W
20250925.00	0.30	S	2.6	0	NW
20250925.03	0.28	SE	2.6	1	S
20250925.06	0.26	SE	2.6	2	SE
20250925.09	0.24	SE	2.6	3	SE
20250925.12	0.23	SE	2.6	3	NE
20250925.15	0.23	SE	2.3	4	NE
20250925.18	0.26	E	1.9	4	NE
20250925.21	0.29	NE	2.0	3	S
20250926.00	0.26	NE	2.0	5	E
20250926.03	0.28	NW	1.9	5	SE
20250926.06	0.33	NW	2.0	5	S
20250926.09	0.34	NW	2.1	5	S
20250926.12	0.32	N	2.2	4	NW
20250926.15	0.31	NE	2.4	3	NW
20250926.18	0.27	NE	2.5	3	N
20250926.21	0.25	E	2.6	2	NW
20250927.00	0.23	E	2.6	2	E
20250927.03	0.21	E	2.7	2	E
20250927.06	0.21	E	2.6	2	N
20250927.09	0.21	E	2.4	3	NW
20250927.12	0.24	E	2.2	4	NW

Wind condition in the Fetisovo

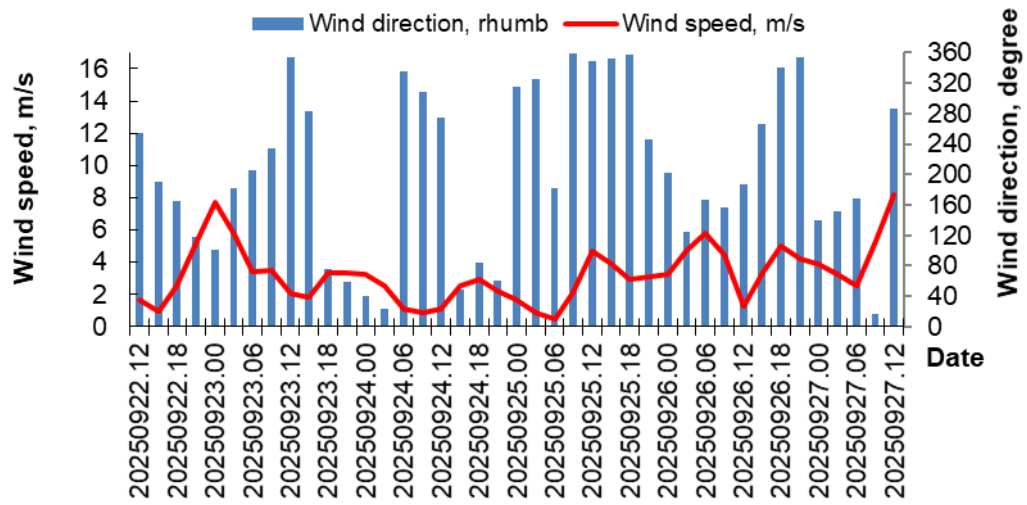


Wave condition in the Fetisovo

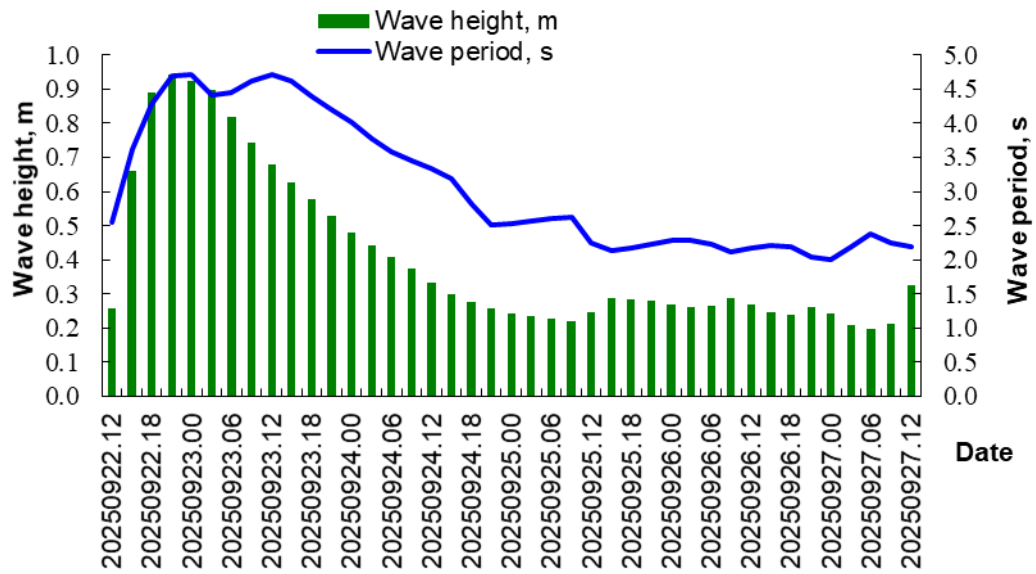


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250922.12	0.38	SW	2.2	4	S
20250922.15	0.70	SW	3.5	4	E
20250922.18	1.01	SW	4.7	3	SE
20250922.21	1.15	S	5.2	3	E
20250923.00	1.13	S	5.3	5	NW
20250923.03	1.02	S	5.3	4	N
20250923.06	0.88	S	5.2	2	S
20250923.09	0.73	S	4.9	4	W
20250923.12	0.65	S	4.2	6	N
20250923.15	0.59	S	3.5	4	N
20250923.18	0.49	S	3.3	2	S
20250923.21	0.40	S	3.3	2	NE
20250924.00	0.34	S	3.2	3	NW
20250924.03	0.30	S	3.0	3	N
20250924.06	0.28	S	2.9	3	NE
20250924.09	0.27	S	2.7	3	NE
20250924.12	0.27	S	2.5	3	N
20250924.15	0.26	S	2.5	2	N
20250924.18	0.26	S	2.7	2	NW
20250924.21	0.26	S	2.6	3	N
20250925.00	0.27	SE	2.5	3	W
20250925.03	0.26	SE	2.5	2	SW
20250925.06	0.24	S	2.5	2	SE
20250925.09	0.21	S	2.5	2	S
20250925.12	0.20	S	2.5	3	NE
20250925.15	0.20	S	2.2	3	NE
20250925.18	0.20	E	2.0	3	E
20250925.21	0.22	NE	1.9	3	S
20250926.00	0.24	N	1.9	4	SE
20250926.03	0.26	NW	2.0	4	S
20250926.06	0.28	NW	2.0	5	S
20250926.09	0.29	NW	2.0	4	E
20250926.12	0.28	N	2.2	3	NW
20250926.15	0.27	N	2.4	3	N
20250926.18	0.26	N	2.6	2	W
20250926.21	0.25	N	2.6	3	NW
20250927.00	0.25	NE	2.4	3	NE
20250927.03	0.25	NE	2.3	3	NE
20250927.06	0.24	NE	2.2	3	NE
20250927.09	0.27	E	2.0	5	W
20250927.12	0.34	E	2.1	6	NW

Wind condition in the Saura

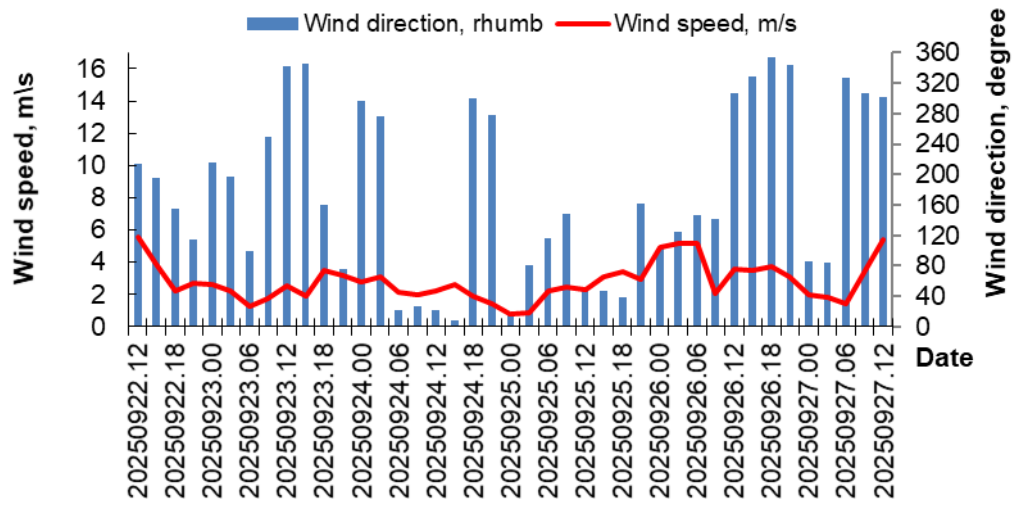


Wave condition in the Saura

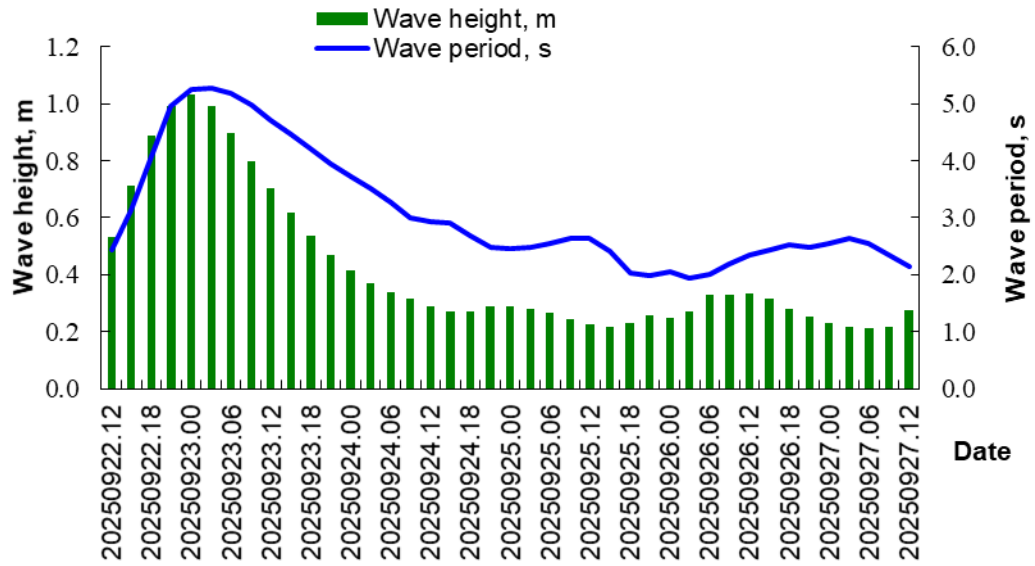


Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250922.12	0.26	S	2.6	2	W
20250922.15	0.66	S	3.6	1	S
20250922.18	0.89	S	4.3	3	S
20250922.21	0.94	S	4.7	5	SE
20250923.00	0.93	S	4.7	8	E
20250923.03	0.90	S	4.4	6	S
20250923.06	0.82	S	4.5	3	SW
20250923.09	0.74	S	4.6	3	SW
20250923.12	0.68	S	4.7	2	N
20250923.15	0.63	S	4.6	2	W
20250923.18	0.58	S	4.4	3	E
20250923.21	0.53	S	4.2	3	NE
20250924.00	0.48	S	4.0	3	NE
20250924.03	0.44	S	3.8	3	NE
20250924.06	0.41	S	3.6	1	NW
20250924.09	0.37	S	3.4	1	NW
20250924.12	0.33	SW	3.3	1	W
20250924.15	0.30	SW	3.2	3	NE
20250924.18	0.27	S	2.8	3	E
20250924.21	0.26	S	2.5	2	NE
20250925.00	0.24	S	2.5	2	NW
20250925.03	0.23	S	2.6	1	NW
20250925.06	0.23	S	2.6	0	S
20250925.09	0.22	S	2.6	2	N
20250925.12	0.25	S	2.3	5	N
20250925.15	0.29	S	2.1	4	N
20250925.18	0.28	S	2.2	3	N
20250925.21	0.28	S	2.2	3	SW
20250926.00	0.27	S	2.3	3	SW
20250926.03	0.26	S	2.3	5	SE
20250926.06	0.27	SW	2.2	6	S
20250926.09	0.29	W	2.1	4	SE
20250926.12	0.27	NW	2.2	1	S
20250926.15	0.25	NW	2.2	3	W
20250926.18	0.24	SW	2.2	5	N
20250926.21	0.26	S	2.0	4	N
20250927.00	0.24	S	2.0	4	SE
20250927.03	0.21	S	2.2	3	SE
20250927.06	0.20	SE	2.4	3	S
20250927.09	0.21	NE	2.2	5	N
20250927.12	0.33	E	2.2	8	W

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
20250922.12	0.53	SW	2.4	6	SW
20250922.15	0.71	SW	3.1	4	S
20250922.18	0.89	SW	4.1	2	SE
20250922.21	0.99	S	4.9	3	SE
20250923.00	1.03	S	5.3	3	SW
20250923.03	0.99	S	5.3	2	S
20250923.06	0.90	S	5.2	1	E
20250923.09	0.80	S	5.0	2	W
20250923.12	0.71	S	4.7	3	N
20250923.15	0.62	S	4.5	2	N
20250923.18	0.54	S	4.2	4	S
20250923.21	0.47	S	3.9	3	E
20250924.00	0.41	S	3.7	3	NW
20250924.03	0.37	S	3.5	3	W
20250924.06	0.34	S	3.3	2	N
20250924.09	0.31	S	3.0	2	NE
20250924.12	0.29	S	2.9	2	N
20250924.15	0.27	SW	2.9	3	N
20250924.18	0.27	S	2.7	2	NW
20250924.21	0.29	S	2.5	1	W
20250925.00	0.29	SE	2.5	1	N
20250925.03	0.28	SE	2.5	1	E
20250925.06	0.27	SE	2.5	2	SE
20250925.09	0.25	SE	2.6	2	SE
20250925.12	0.23	SE	2.6	2	NE
20250925.15	0.22	SE	2.4	3	NE
20250925.18	0.23	E	2.0	3	NE
20250925.21	0.26	NE	2.0	3	S
20250926.00	0.25	NE	2.0	5	E
20250926.03	0.27	NW	1.9	5	SE
20250926.06	0.33	NW	2.0	5	SE
20250926.09	0.33	NW	2.2	2	SE
20250926.12	0.34	NW	2.3	4	NW
20250926.15	0.32	NE	2.4	3	NW
20250926.18	0.28	NE	2.5	4	N
20250926.21	0.25	NE	2.5	3	N
20250927.00	0.23	NE	2.6	2	E
20250927.03	0.22	NE	2.6	2	E
20250927.06	0.21	E	2.5	1	NW
20250927.09	0.22	E	2.3	4	NW
20250927.12	0.27	E	2.1	5	NW

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

Compiled by: Bazarbay L.B.

Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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