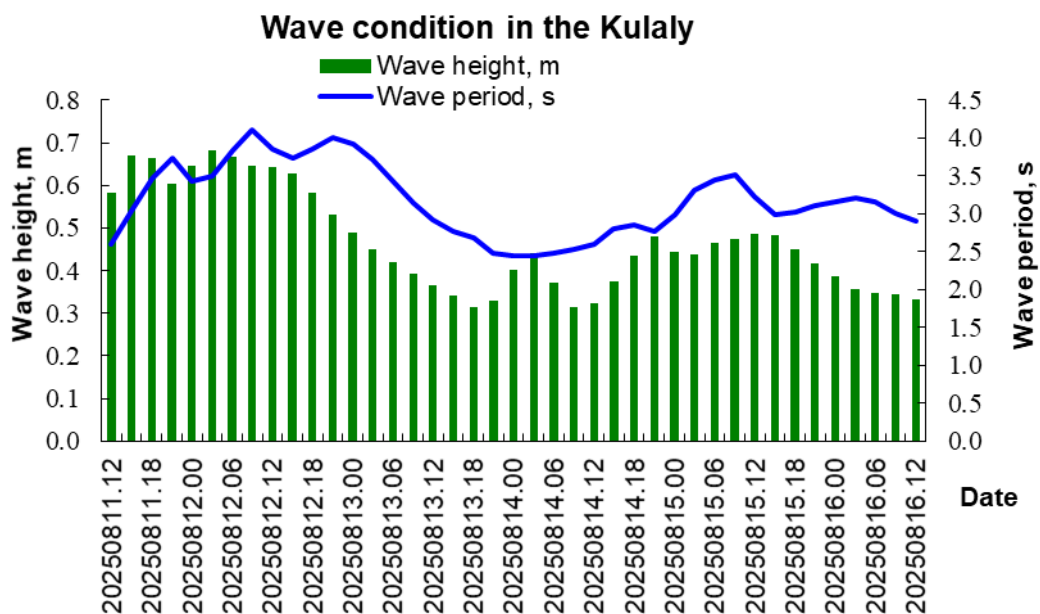
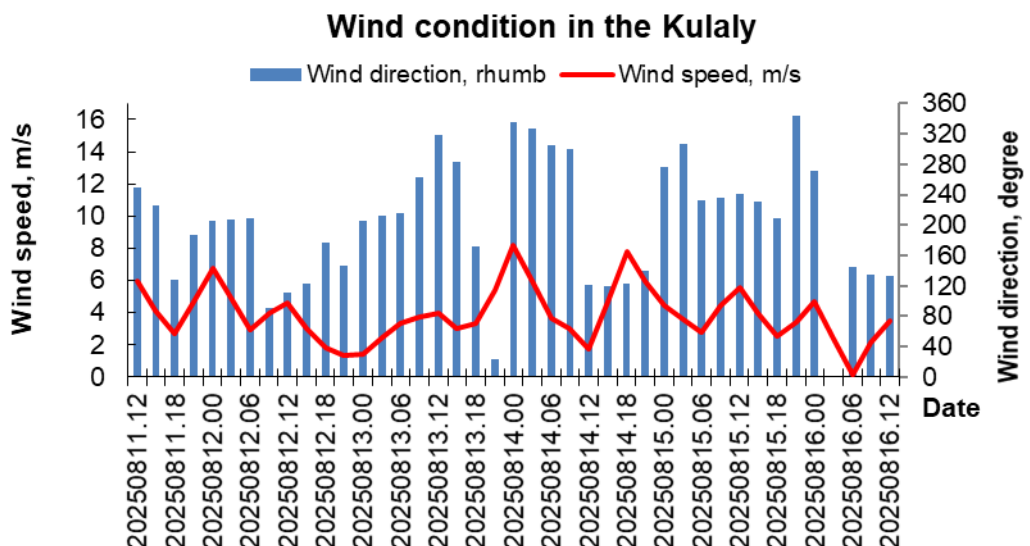




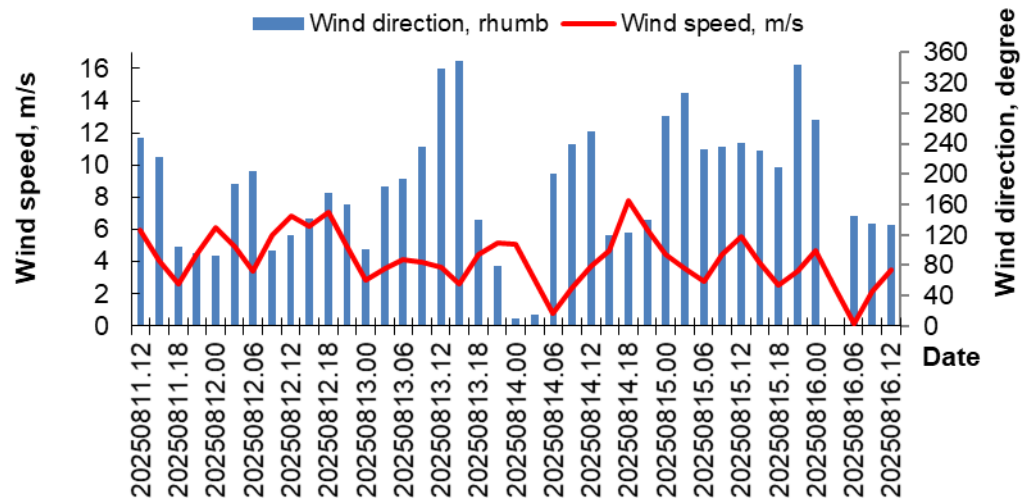
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period August 11 – 16, 2025.**

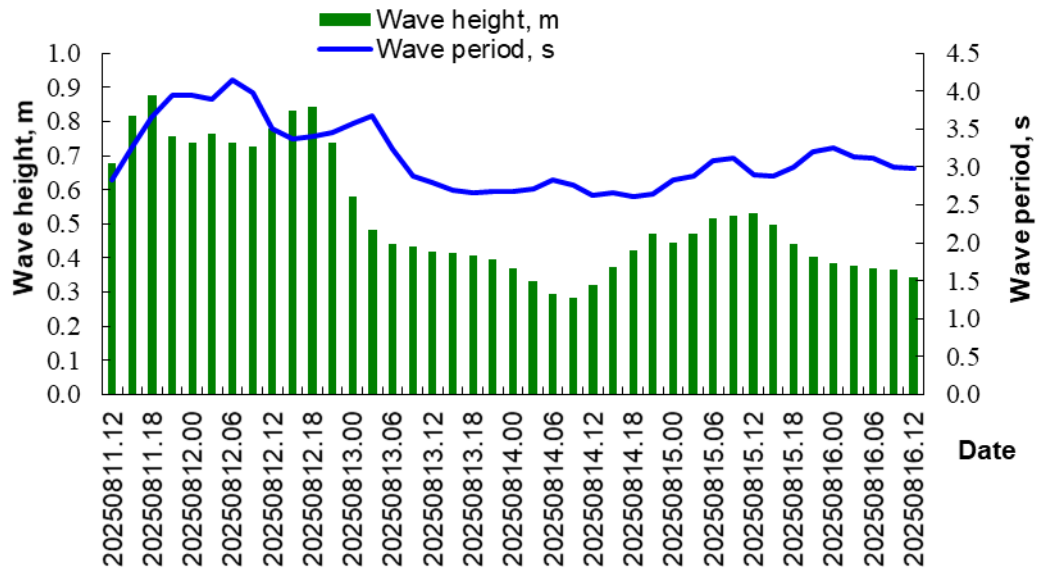


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250811.12	0.58	S	2.6	6	W
20250811.15	0.67	S	3.0	4	SW
20250811.18	0.66	S	3.5	3	SE
20250811.21	0.60	S	3.7	5	S
20250812.00	0.65	S	3.4	7	SW
20250812.03	0.68	S	3.5	5	SW
20250812.06	0.67	S	3.8	3	SW
20250812.09	0.65	S	4.1	4	E
20250812.12	0.64	S	3.8	5	E
20250812.15	0.63	S	3.7	3	SE
20250812.18	0.58	S	3.9	2	S
20250812.21	0.53	S	4.0	1	SE
20250813.00	0.49	S	3.9	1	SW
20250813.03	0.45	S	3.7	2	SW
20250813.06	0.42	S	3.4	3	SW
20250813.09	0.39	S	3.1	4	W
20250813.12	0.37	S	2.9	4	NW
20250813.15	0.34	S	2.8	3	W
20250813.18	0.32	S	2.7	3	S
20250813.21	0.33	W	2.5	5	NE
20250814.00	0.40	E	2.4	8	NW
20250814.03	0.44	SE	2.4	6	NW
20250814.06	0.37	SE	2.5	4	NW
20250814.09	0.31	E	2.5	3	NW
20250814.12	0.32	SE	2.6	2	SE
20250814.15	0.38	S	2.8	5	SE
20250814.18	0.43	S	2.9	8	SE
20250814.21	0.48	W	2.8	6	SE
20250815.00	0.45	W	3.0	4	W
20250815.03	0.44	W	3.3	4	NW
20250815.06	0.47	W	3.4	3	SW
20250815.09	0.48	SW	3.5	4	SW
20250815.12	0.49	SW	3.2	6	SW
20250815.15	0.48	SW	3.0	4	SW
20250815.18	0.45	SW	3.0	3	SW
20250815.21	0.42	SW	3.1	3	N
20250816.00	0.39	SW	3.2	5	W
20250816.03	0.36	SW	3.2	2	N
20250816.06	0.35	SW	3.2	0	SE
20250816.09	0.35	SW	3.0	2	SE
20250816.12	0.33	SW	2.9	3	SE

Wind condition in the Fort-Shevchenko

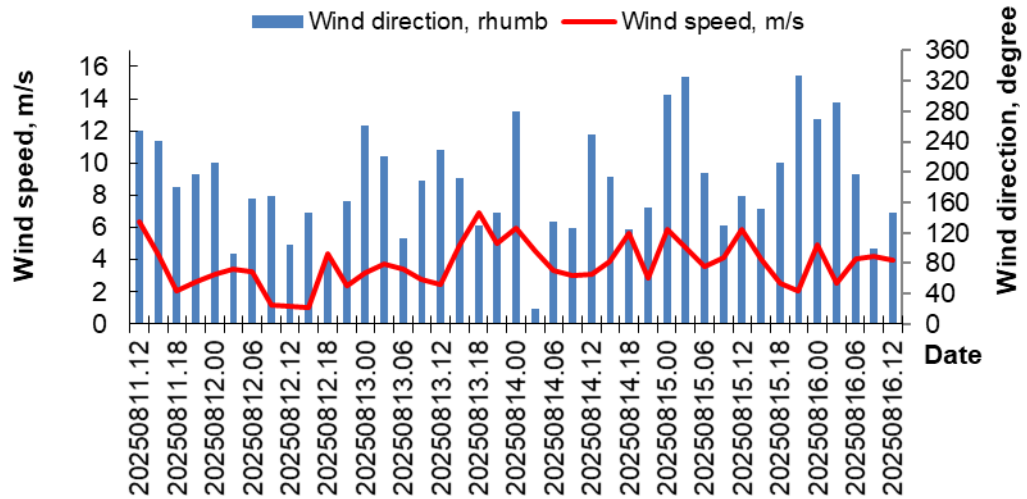


Wave condition in the Fort-Shevchenko

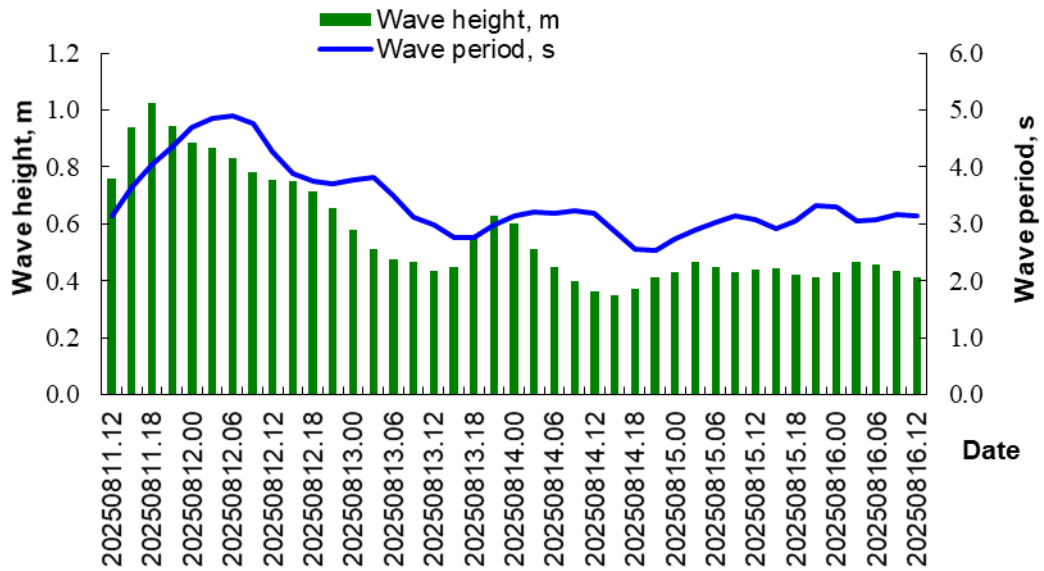


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250811.12	0.68	S	2.8	6	W
20250811.15	0.82	S	3.3	4	SW
20250811.18	0.88	S	3.7	3	E
20250811.21	0.76	S	4.0	4	E
20250812.00	0.74	S	3.9	6	E
20250812.03	0.76	S	3.9	5	S
20250812.06	0.74	S	4.1	3	SW
20250812.09	0.73	S	4.0	6	E
20250812.12	0.78	S	3.5	7	SE
20250812.15	0.83	SW	3.4	6	SE
20250812.18	0.84	W	3.4	7	S
20250812.21	0.74	NW	3.5	5	S
20250813.00	0.58	SW	3.6	3	E
20250813.03	0.48	S	3.7	4	S
20250813.06	0.44	S	3.2	4	S
20250813.09	0.43	SW	2.9	4	SW
20250813.12	0.42	SW	2.8	4	N
20250813.15	0.41	SW	2.7	3	N
20250813.18	0.41	W	2.7	4	SE
20250813.21	0.39	NW	2.7	5	E
20250814.00	0.37	N	2.7	5	N
20250814.03	0.33	N	2.7	3	N
20250814.06	0.29	N	2.8	1	S
20250814.09	0.28	NE	2.8	2	SW
20250814.12	0.32	SE	2.6	4	W
20250814.15	0.37	S	2.7	5	SE
20250814.18	0.42	SW	2.6	8	SE
20250814.21	0.47	W	2.6	6	SE
20250815.00	0.44	W	2.8	4	W
20250815.03	0.47	N	2.9	4	NW
20250815.06	0.51	SE	3.1	3	SW
20250815.09	0.52	SW	3.1	4	SW
20250815.12	0.53	W	2.9	6	SW
20250815.15	0.50	W	2.9	4	SW
20250815.18	0.44	W	3.0	3	SW
20250815.21	0.40	W	3.2	3	N
20250816.00	0.39	W	3.3	5	W
20250816.03	0.38	W	3.1	2	N
20250816.06	0.37	W	3.1	0	SE
20250816.09	0.36	W	3.0	2	SE
20250816.12	0.34	W	3.0	3	SE

Wind condition in the Aktau

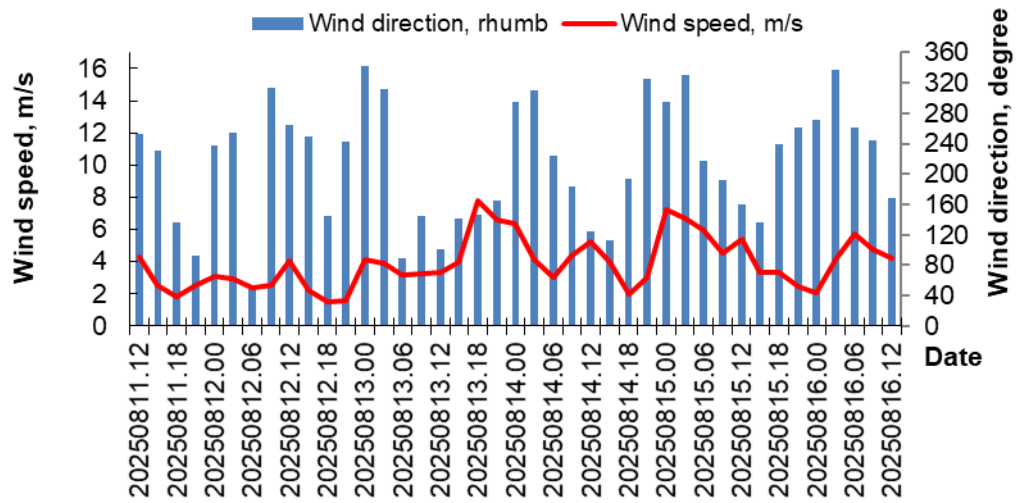


Wave condition in the Aktau

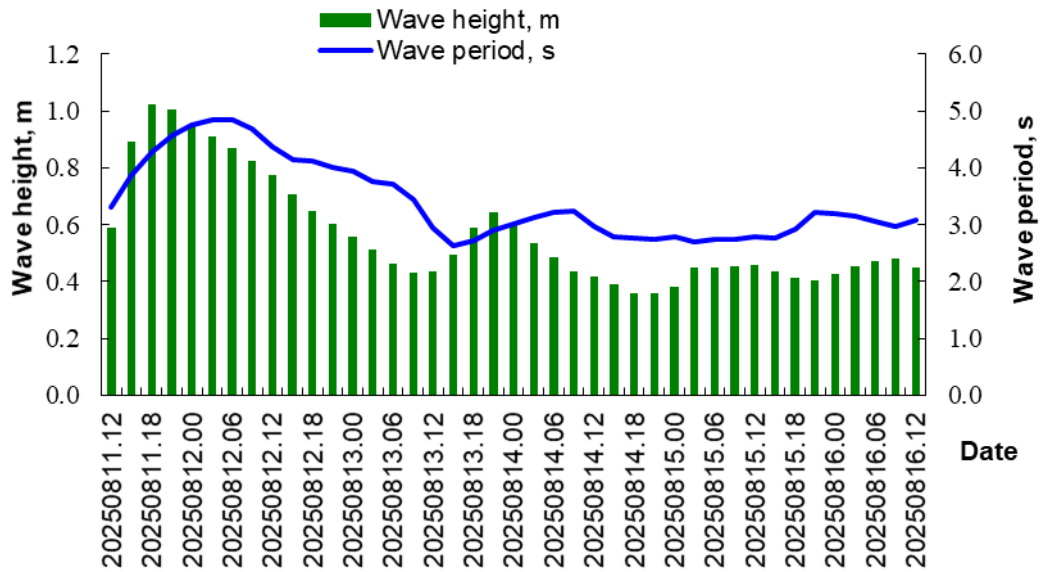


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250811.12	0.76	S	3.1	6	W
20250811.15	0.94	S	3.6	4	SW
20250811.18	1.02	S	4.0	2	S
20250811.21	0.94	S	4.4	3	S
20250812.00	0.89	S	4.7	3	SW
20250812.03	0.87	S	4.9	3	E
20250812.06	0.83	S	4.9	3	S
20250812.09	0.78	S	4.8	1	S
20250812.12	0.76	S	4.3	1	E
20250812.15	0.75	S	3.9	1	SE
20250812.18	0.71	SW	3.7	4	E
20250812.21	0.66	SW	3.7	2	S
20250813.00	0.58	SW	3.8	3	W
20250813.03	0.51	SW	3.8	4	SW
20250813.06	0.47	W	3.5	3	SE
20250813.09	0.47	W	3.1	3	S
20250813.12	0.44	W	3.0	2	SW
20250813.15	0.45	W	2.8	5	S
20250813.18	0.55	W	2.8	7	SE
20250813.21	0.63	W	3.0	5	SE
20250814.00	0.60	W	3.1	6	W
20250814.03	0.51	NW	3.2	5	N
20250814.06	0.45	NW	3.2	3	SE
20250814.09	0.40	NW	3.2	3	SE
20250814.12	0.36	NW	3.2	3	W
20250814.15	0.35	NW	2.9	4	S
20250814.18	0.37	W	2.6	6	SE
20250814.21	0.41	W	2.5	3	SE
20250815.00	0.43	NW	2.7	6	NW
20250815.03	0.47	SE	2.9	5	NW
20250815.06	0.45	SE	3.0	4	S
20250815.09	0.43	S	3.1	4	SE
20250815.12	0.44	SW	3.1	6	S
20250815.15	0.44	W	2.9	4	SE
20250815.18	0.42	W	3.1	3	SW
20250815.21	0.41	W	3.3	2	NW
20250816.00	0.43	W	3.3	5	W
20250816.03	0.47	W	3.0	3	W
20250816.06	0.46	W	3.1	4	S
20250816.09	0.43	W	3.2	4	E
20250816.12	0.41	W	3.2	4	SE

Wind condition in the Peschanyi

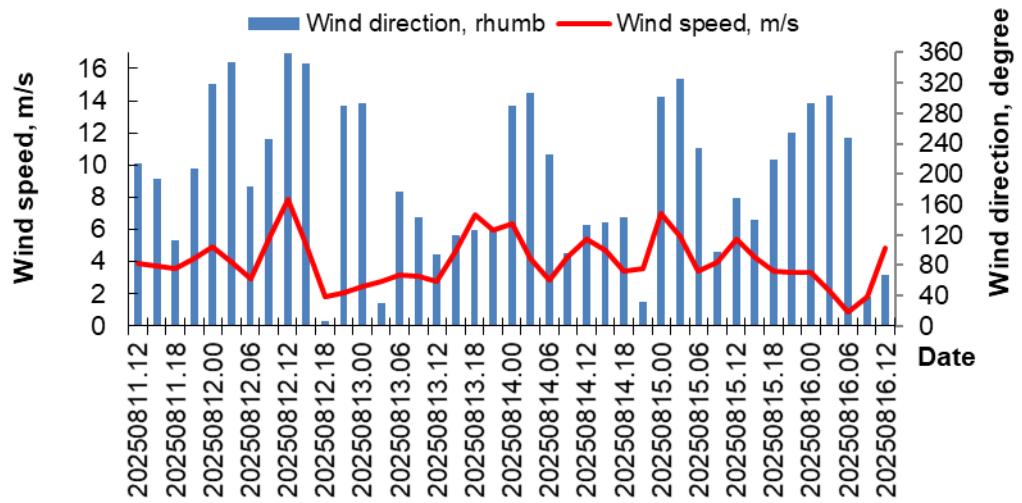


Wave condition in the Peschanyi

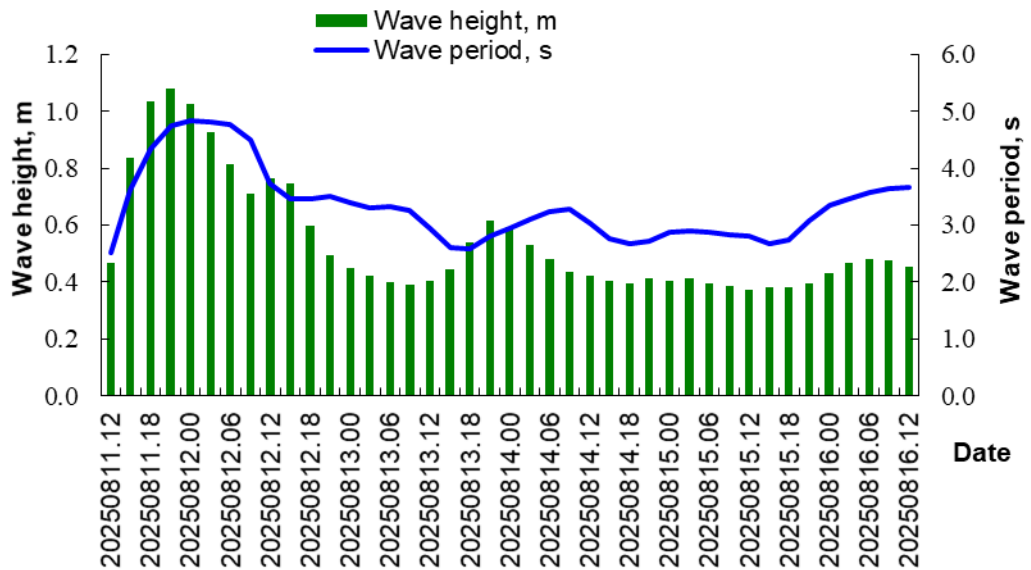


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250811.12	0.59	S	3.3	4	W
20250811.15	0.89	S	3.9	3	SW
20250811.18	1.03	S	4.3	2	SE
20250811.21	1.01	S	4.6	3	E
20250812.00	0.95	S	4.7	3	SW
20250812.03	0.91	S	4.8	3	W
20250812.06	0.87	S	4.8	2	NE
20250812.09	0.83	S	4.7	3	NW
20250812.12	0.78	S	4.4	4	W
20250812.15	0.71	S	4.2	2	W
20250812.18	0.65	S	4.1	2	SE
20250812.21	0.60	S	4.0	2	SW
20250813.00	0.56	SW	3.9	4	N
20250813.03	0.51	SW	3.8	4	NW
20250813.06	0.46	SW	3.7	3	E
20250813.09	0.43	SW	3.5	3	SE
20250813.12	0.44	W	2.9	3	E
20250813.15	0.50	W	2.6	4	SE
20250813.18	0.59	NW	2.7	8	SE
20250813.21	0.64	NW	2.9	7	S
20250814.00	0.60	NW	3.0	6	NW
20250814.03	0.53	NW	3.1	4	NW
20250814.06	0.49	NW	3.2	3	SW
20250814.09	0.44	NW	3.2	4	S
20250814.12	0.42	NW	3.0	5	SE
20250814.15	0.39	NW	2.8	4	SE
20250814.18	0.36	NW	2.8	2	S
20250814.21	0.36	NW	2.7	3	NW
20250815.00	0.38	W	2.8	7	NW
20250815.03	0.45	SE	2.7	7	NW
20250815.06	0.45	S	2.7	6	SW
20250815.09	0.45	S	2.7	5	S
20250815.12	0.46	SW	2.8	5	S
20250815.15	0.44	W	2.8	3	SE
20250815.18	0.42	W	2.9	3	SW
20250815.21	0.40	W	3.2	2	W
20250816.00	0.42	W	3.2	2	W
20250816.03	0.45	W	3.1	4	NW
20250816.06	0.47	W	3.1	6	W
20250816.09	0.48	SW	3.0	5	SW
20250816.12	0.45	W	3.1	4	S

Wind condition in the Fetisovo

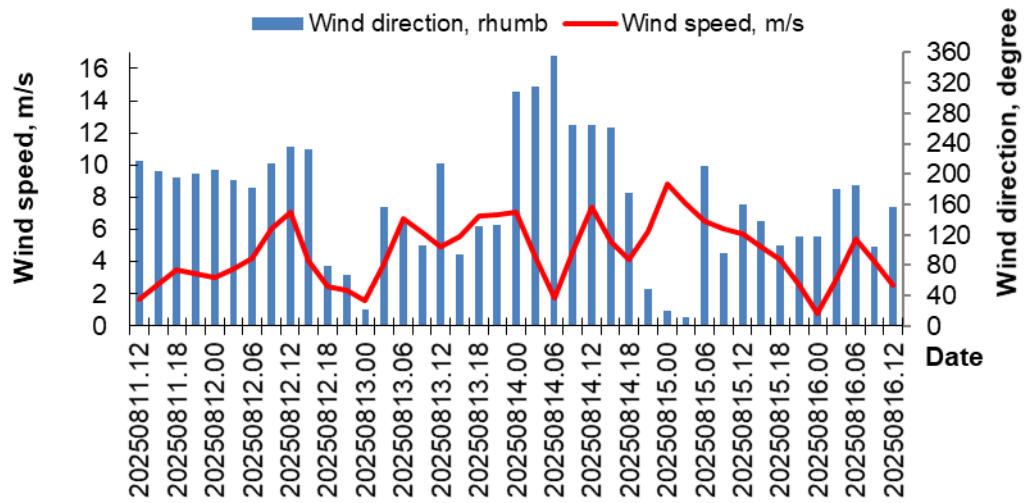


Wave condition in the Fetisovo

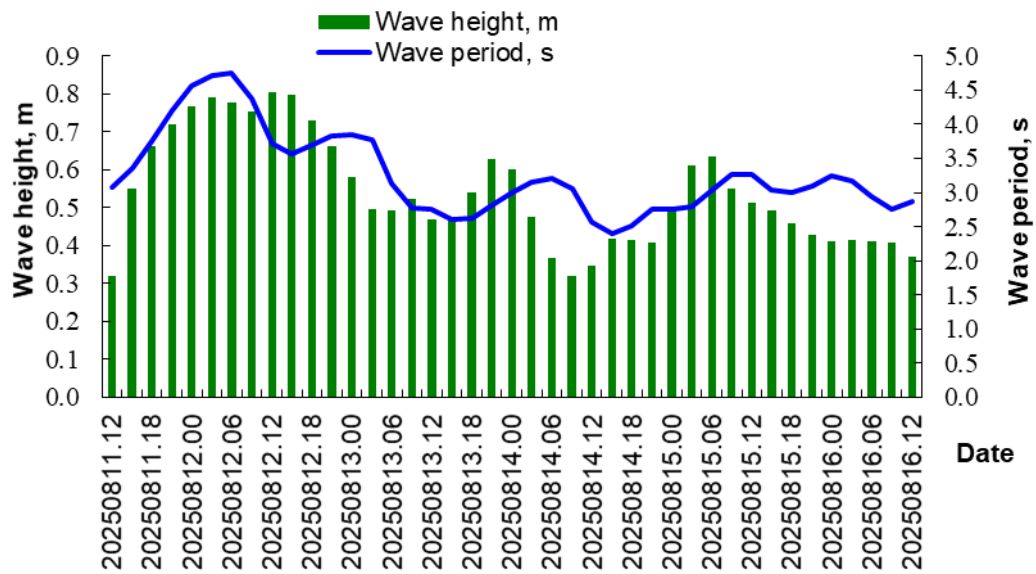


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250811.12	0.47	SW	2.5	4	SW
20250811.15	0.84	S	3.6	4	S
20250811.18	1.03	S	4.3	4	SE
20250811.21	1.08	S	4.7	4	SW
20250812.00	1.02	S	4.8	5	NW
20250812.03	0.93	S	4.8	4	N
20250812.06	0.81	S	4.8	3	S
20250812.09	0.71	S	4.5	5	SW
20250812.12	0.76	S	3.7	8	N
20250812.15	0.75	S	3.5	5	N
20250812.18	0.60	S	3.5	2	N
20250812.21	0.49	S	3.5	2	W
20250813.00	0.45	SW	3.4	2	NW
20250813.03	0.42	SW	3.3	3	NE
20250813.06	0.40	SW	3.3	3	S
20250813.09	0.39	W	3.2	3	SE
20250813.12	0.40	W	2.9	3	E
20250813.15	0.45	W	2.6	5	SE
20250813.18	0.54	NW	2.6	7	SE
20250813.21	0.62	NW	2.8	6	SE
20250814.00	0.59	NW	2.9	6	W
20250814.03	0.53	NW	3.1	4	NW
20250814.06	0.48	NW	3.2	3	SW
20250814.09	0.44	NW	3.3	4	E
20250814.12	0.42	NW	3.0	5	SE
20250814.15	0.40	NW	2.8	5	SE
20250814.18	0.39	NW	2.7	3	SE
20250814.21	0.41	NW	2.7	4	NE
20250815.00	0.40	W	2.9	7	NW
20250815.03	0.41	W	2.9	6	NW
20250815.06	0.40	SW	2.9	3	SW
20250815.09	0.38	W	2.8	4	E
20250815.12	0.37	W	2.8	5	S
20250815.15	0.38	W	2.7	4	SE
20250815.18	0.38	W	2.7	3	SW
20250815.21	0.39	W	3.1	3	W
20250816.00	0.43	W	3.4	3	NW
20250816.03	0.47	W	3.5	2	NW
20250816.06	0.48	W	3.6	1	SW
20250816.09	0.47	W	3.6	2	NE
20250816.12	0.45	W	3.7	5	NE

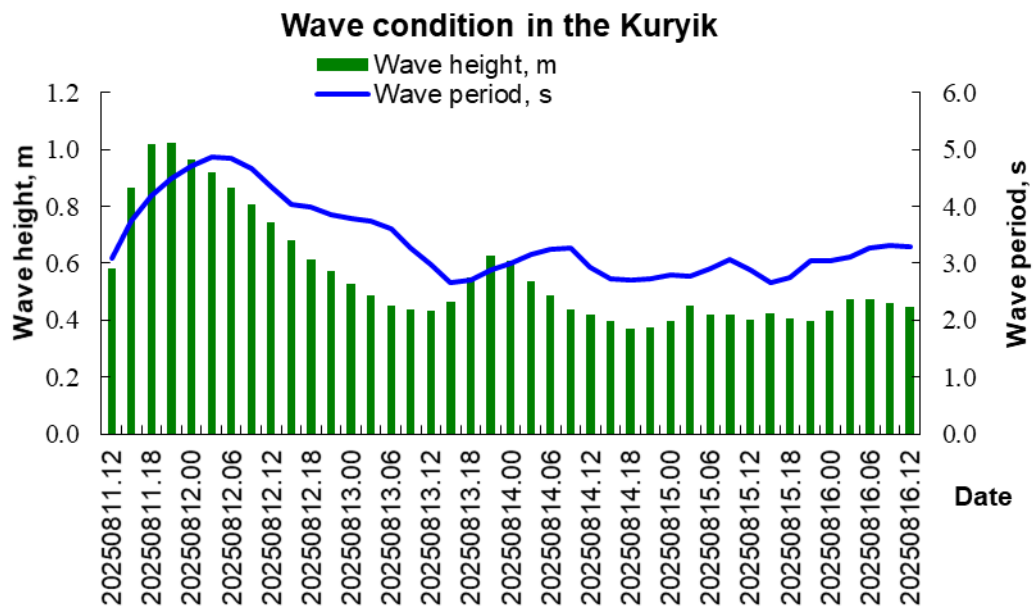
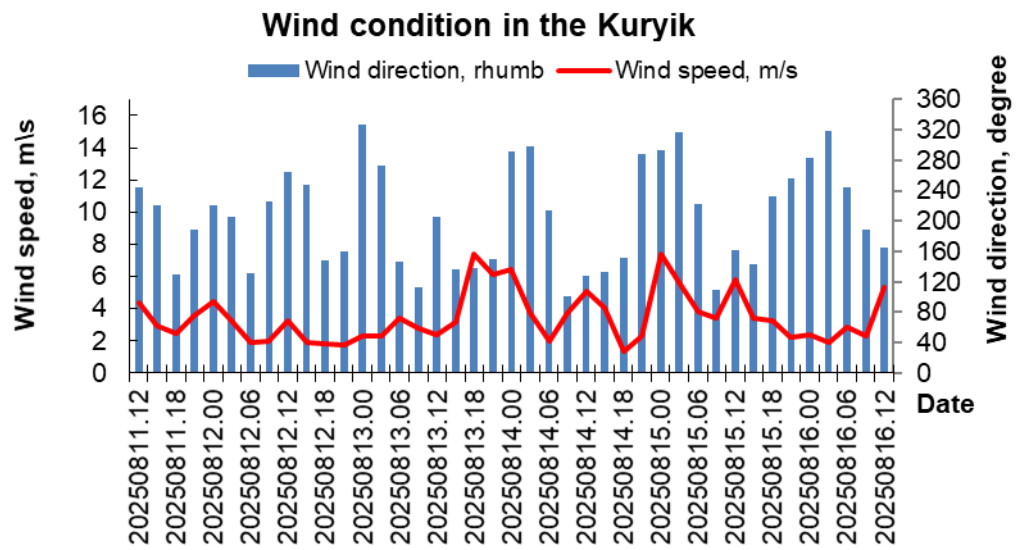
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250811.12	0.32	S	3.1	2	SW
20250811.15	0.55	S	3.4	3	SW
20250811.18	0.66	S	3.7	4	S
20250811.21	0.72	S	4.2	3	S
20250812.00	0.77	S	4.6	3	SW
20250812.03	0.79	S	4.7	4	S
20250812.06	0.78	S	4.7	4	S
20250812.09	0.75	S	4.4	6	SW
20250812.12	0.81	S	3.7	7	SW
20250812.15	0.80	S	3.6	4	SW
20250812.18	0.73	SW	3.7	2	E
20250812.21	0.66	SW	3.8	2	NE
20250813.00	0.58	SW	3.8	2	N
20250813.03	0.50	SW	3.8	4	SE
20250813.06	0.49	W	3.1	7	SE
20250813.09	0.52	NW	2.8	6	E
20250813.12	0.47	W	2.8	5	SW
20250813.15	0.47	W	2.6	6	E
20250813.18	0.54	W	2.6	7	SE
20250813.21	0.63	NW	2.8	7	SE
20250814.00	0.60	NW	3.0	7	NW
20250814.03	0.48	NW	3.2	4	NW
20250814.06	0.37	NW	3.2	2	N
20250814.09	0.32	NW	3.1	5	W
20250814.12	0.35	SW	2.6	7	W
20250814.15	0.42	S	2.4	5	W
20250814.18	0.41	S	2.5	4	S
20250814.21	0.41	SW	2.8	6	NE
20250815.00	0.49	NE	2.8	9	N
20250815.03	0.61	E	2.8	8	N
20250815.06	0.63	E	3.0	7	SW
20250815.09	0.55	SE	3.3	6	E
20250815.12	0.51	SW	3.3	6	S
20250815.15	0.49	W	3.0	5	SE
20250815.18	0.46	W	3.0	4	E
20250815.21	0.43	W	3.1	3	SE
20250816.00	0.41	W	3.2	1	SE
20250816.03	0.41	NW	3.2	3	S
20250816.06	0.41	W	2.9	5	S
20250816.09	0.41	W	2.8	4	E
20250816.12	0.37	W	2.9	3	SE



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250811.12	0.58	S	3.1	4	SW
20250811.15	0.87	S	3.7	3	SW
20250811.18	1.02	S	4.2	2	SE
20250811.21	1.02	S	4.5	4	S
20250812.00	0.97	S	4.7	4	SW
20250812.03	0.92	S	4.9	3	SW
20250812.06	0.87	S	4.8	2	SE
20250812.09	0.81	S	4.7	2	SW
20250812.12	0.74	S	4.3	3	W
20250812.15	0.68	S	4.0	2	W
20250812.18	0.62	S	4.0	2	SE
20250812.21	0.57	SW	3.9	2	S
20250813.00	0.53	SW	3.8	2	NW
20250813.03	0.49	SW	3.7	2	W
20250813.06	0.45	SW	3.6	3	SE
20250813.09	0.44	W	3.3	3	E
20250813.12	0.43	W	3.0	2	SW
20250813.15	0.47	W	2.7	3	SE
20250813.18	0.55	NW	2.7	7	SE
20250813.21	0.63	NW	2.9	6	SE
20250814.00	0.61	NW	3.0	6	W
20250814.03	0.54	NW	3.2	4	NW
20250814.06	0.49	NW	3.3	2	SW
20250814.09	0.44	NW	3.3	4	E
20250814.12	0.42	NW	2.9	5	SE
20250814.15	0.40	NW	2.7	4	SE
20250814.18	0.37	NW	2.7	1	SE
20250814.21	0.37	NW	2.7	2	W
20250815.00	0.40	W	2.8	7	NW
20250815.03	0.45	SE	2.8	6	NW
20250815.06	0.42	SE	2.9	4	SW
20250815.09	0.42	SE	3.1	3	E
20250815.12	0.40	SW	2.9	6	S
20250815.15	0.43	W	2.7	3	SE
20250815.18	0.41	W	2.8	3	SW
20250815.21	0.40	W	3.0	2	W
20250816.00	0.43	W	3.1	2	W
20250816.03	0.47	W	3.1	2	NW
20250816.06	0.48	W	3.3	3	SW
20250816.09	0.46	W	3.3	2	S
20250816.12	0.45	W	3.3	5	S

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

Compiled by: Zhagparova N.N.

Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

Phone. (717)2 79 83 12; E-mail: ugmikm@meteo.kz