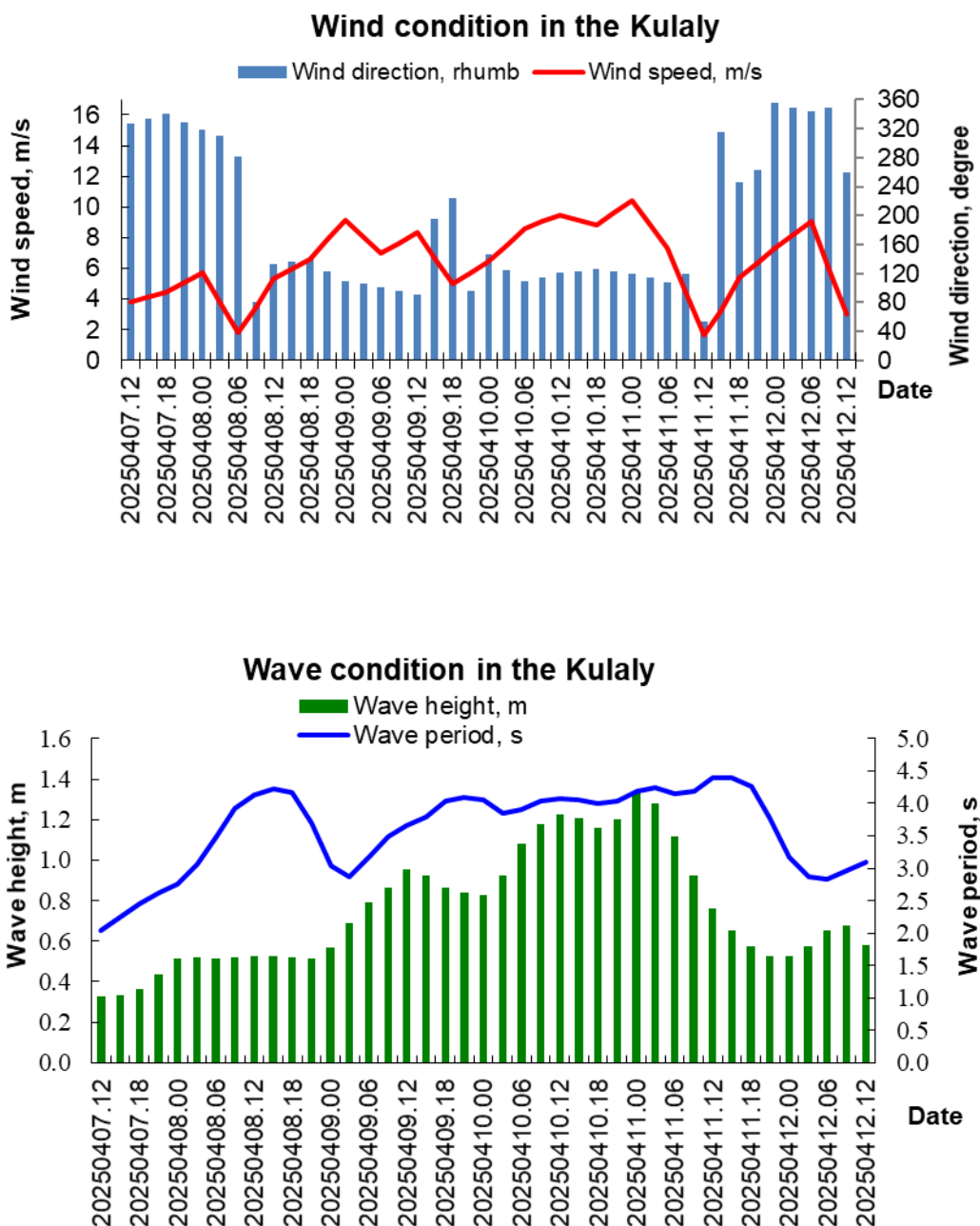




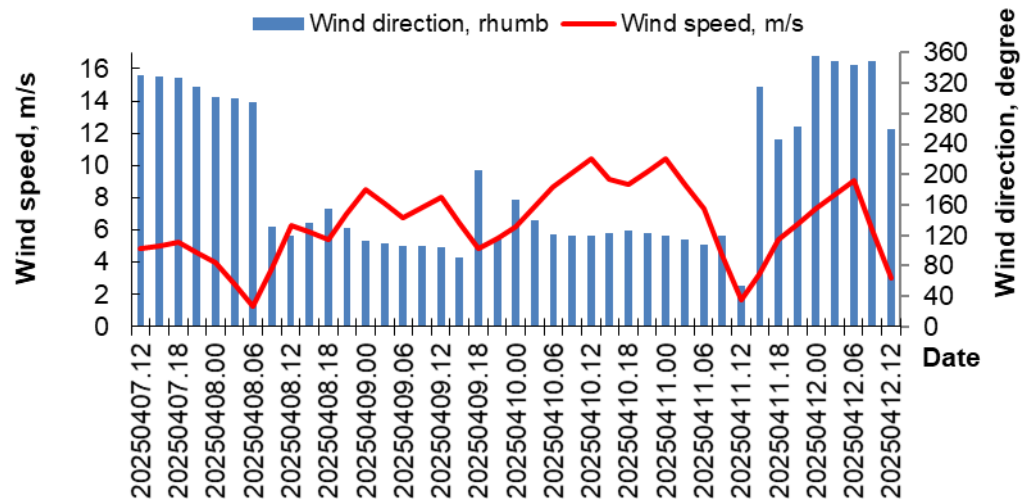
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period April 07 –12, 2025.**

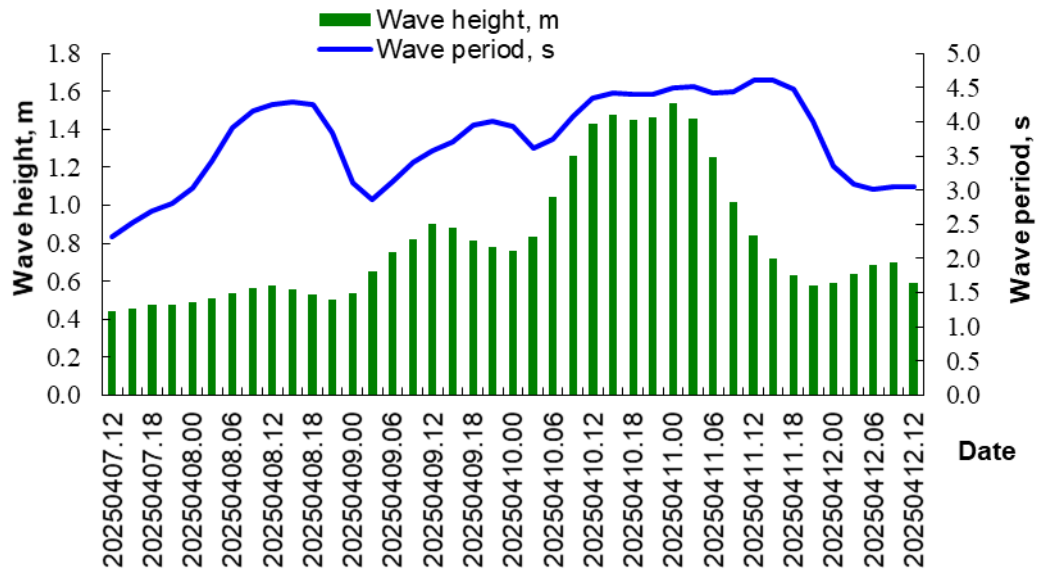


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250407.12	0.33	SE	2.0	4	NW
20250407.15	0.33	SE	2.3	4	NW
20250407.18	0.37	SE	2.5	4	N
20250407.21	0.44	SE	2.6	5	NW
20250408.00	0.51	SE	2.8	6	NW
20250408.03	0.52	SE	3.1	4	NW
20250408.06	0.52	SE	3.5	2	W
20250408.09	0.52	SE	3.9	4	E
20250408.12	0.53	SE	4.1	5	SE
20250408.15	0.53	SE	4.2	6	SE
20250408.18	0.52	SE	4.2	7	SE
20250408.21	0.51	SE	3.7	8	SE
20250409.00	0.57	SE	3.0	9	E
20250409.03	0.69	W	2.9	8	E
20250409.06	0.79	W	3.2	7	E
20250409.09	0.87	W	3.5	8	E
20250409.12	0.95	W	3.7	8	E
20250409.15	0.93	W	3.8	7	S
20250409.18	0.86	W	4.0	5	SW
20250409.21	0.84	W	4.1	6	E
20250410.00	0.83	W	4.1	6	SE
20250410.03	0.93	W	3.9	8	SE
20250410.06	1.08	W	3.9	9	E
20250410.09	1.18	W	4.0	9	SE
20250410.12	1.23	NW	4.1	10	SE
20250410.15	1.21	NW	4.1	9	SE
20250410.18	1.16	NW	4.0	9	SE
20250410.21	1.20	NW	4.0	10	SE
20250411.00	1.34	NW	4.2	10	SE
20250411.03	1.28	NW	4.2	9	SE
20250411.06	1.12	NW	4.1	7	E
20250411.09	0.93	NW	4.2	4	SE
20250411.12	0.76	NW	4.4	2	NE
20250411.15	0.65	NW	4.4	3	NW
20250411.18	0.57	W	4.3	5	SW
20250411.21	0.53	W	3.8	6	W
20250412.00	0.53	W	3.2	7	N
20250412.03	0.57	SW	2.9	8	N
20250412.06	0.65	S	2.8	9	N
20250412.09	0.68	S	3.0	6	N
20250412.12	0.58	S	3.1	3	W

Wind condition in the Fort-Shevchenko

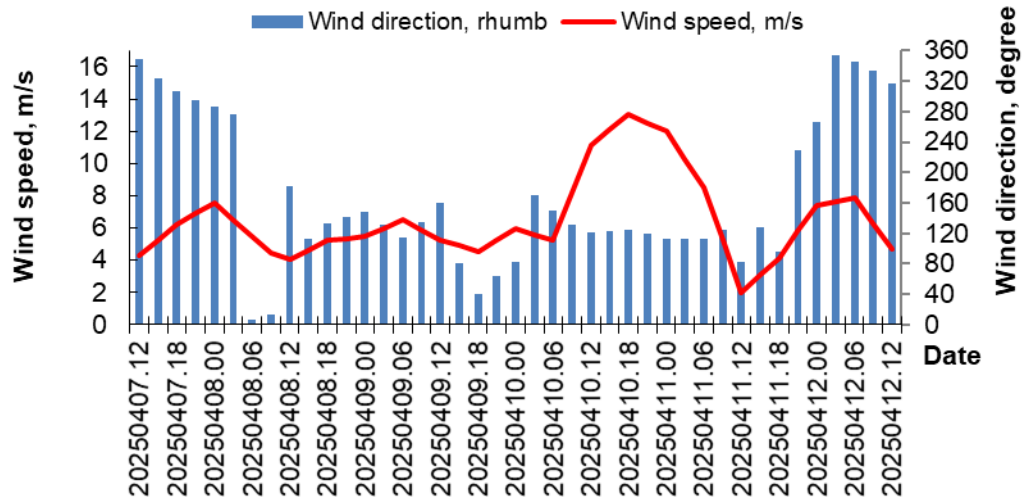


Wave condition in the Fort-Shevchenko

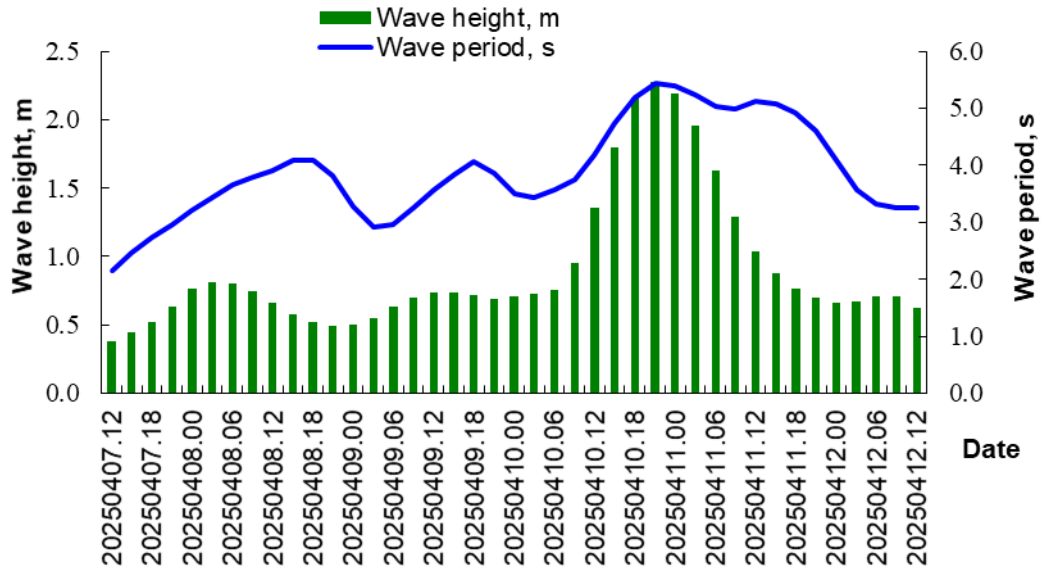


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250407.12	0.44	SE	2.3	5	NW
20250407.15	0.45	SE	2.5	5	NW
20250407.18	0.48	SE	2.7	5	NW
20250407.21	0.48	SE	2.8	5	NW
20250408.00	0.49	SE	3.0	4	NW
20250408.03	0.51	SE	3.4	3	NW
20250408.06	0.54	SE	3.9	1	NW
20250408.09	0.57	SE	4.2	4	SE
20250408.12	0.57	E	4.3	6	SE
20250408.15	0.56	E	4.3	6	SE
20250408.18	0.53	E	4.2	5	SE
20250408.21	0.50	E	3.8	7	SE
20250409.00	0.54	E	3.1	9	SE
20250409.03	0.65	NW	2.9	8	E
20250409.06	0.75	W	3.1	7	E
20250409.09	0.82	NW	3.4	7	E
20250409.12	0.90	W	3.6	8	E
20250409.15	0.88	W	3.7	6	E
20250409.18	0.82	W	4.0	5	SW
20250409.21	0.78	W	4.0	5	SE
20250410.00	0.76	W	3.9	6	S
20250410.03	0.84	W	3.6	7	SE
20250410.06	1.05	NW	3.7	9	SE
20250410.09	1.26	NW	4.1	10	SE
20250410.12	1.43	NW	4.3	10	SE
20250410.15	1.47	NW	4.4	9	SE
20250410.18	1.45	NW	4.4	9	SE
20250410.21	1.47	NW	4.4	10	SE
20250411.00	1.54	NW	4.5	10	SE
20250411.03	1.45	NW	4.5	9	SE
20250411.06	1.25	NW	4.4	7	E
20250411.09	1.02	NW	4.4	4	SE
20250411.12	0.84	NW	4.6	2	NE
20250411.15	0.72	NW	4.6	3	NW
20250411.18	0.63	NW	4.5	5	SW
20250411.21	0.58	W	4.0	6	W
20250412.00	0.59	W	3.4	7	N
20250412.03	0.64	SW	3.1	8	N
20250412.06	0.69	SW	3.0	9	N
20250412.09	0.70	S	3.0	6	N
20250412.12	0.59	S	3.1	3	W

Wind condition in the Aktau

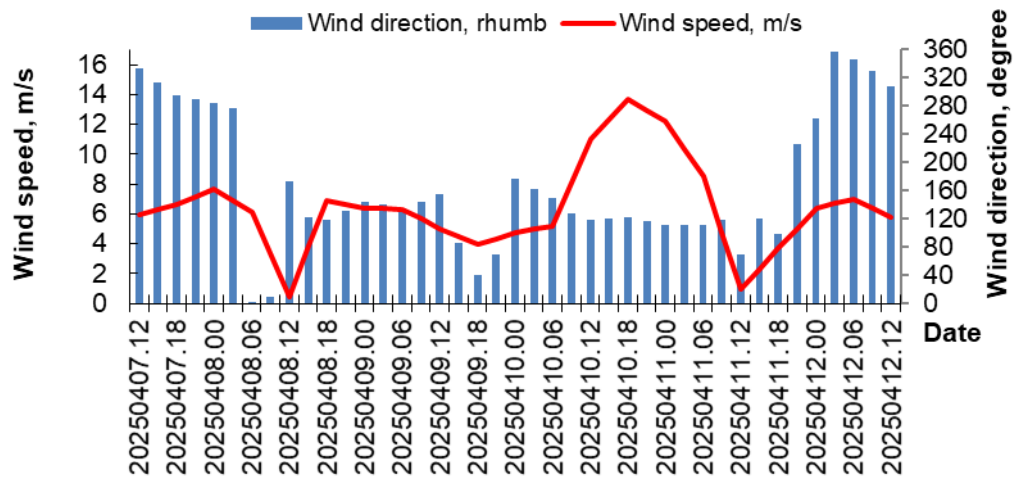


Wave condition in the Aktau

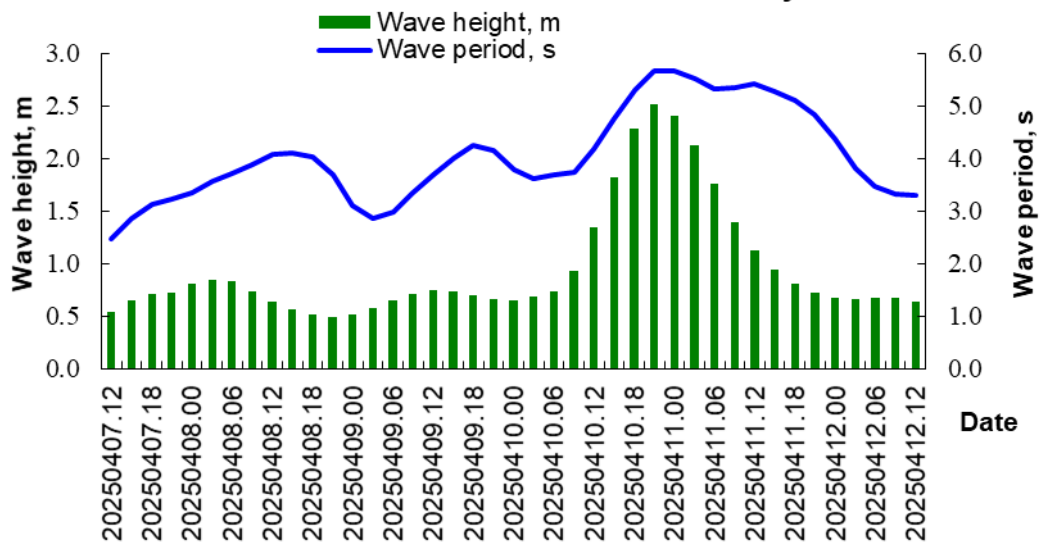


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250407.12	0.38	S	2.1	4	N
20250407.15	0.44	SE	2.5	5	NW
20250407.18	0.52	SE	2.7	6	NW
20250407.21	0.64	SE	3.0	7	NW
20250408.00	0.76	E	3.2	8	W
20250408.03	0.81	E	3.4	7	W
20250408.06	0.80	E	3.7	6	N
20250408.09	0.75	E	3.8	4	N
20250408.12	0.66	E	3.9	4	S
20250408.15	0.58	E	4.1	5	SE
20250408.18	0.52	E	4.1	5	SE
20250408.21	0.50	E	3.8	5	SE
20250409.00	0.50	E	3.3	5	SE
20250409.03	0.55	NE	2.9	6	SE
20250409.06	0.63	N	3.0	7	SE
20250409.09	0.70	NW	3.2	6	SE
20250409.12	0.74	NW	3.6	5	S
20250409.15	0.74	NW	3.8	5	E
20250409.18	0.71	NW	4.1	5	NE
20250409.21	0.69	NW	3.9	5	NE
20250410.00	0.71	NW	3.5	6	E
20250410.03	0.72	NW	3.4	6	S
20250410.06	0.76	NW	3.6	5	SE
20250410.09	0.95	NW	3.7	8	SE
20250410.12	1.35	NW	4.2	11	SE
20250410.15	1.79	NW	4.7	12	SE
20250410.18	2.16	NW	5.2	13	SE
20250410.21	2.28	NW	5.4	12	SE
20250411.00	2.20	NW	5.4	12	SE
20250411.03	1.96	NW	5.2	10	SE
20250411.06	1.63	NW	5.0	8	E
20250411.09	1.29	NW	5.0	5	SE
20250411.12	1.04	NW	5.1	2	E
20250411.15	0.88	NW	5.1	3	SE
20250411.18	0.77	NW	4.9	4	E
20250411.21	0.69	NW	4.6	6	SW
20250412.00	0.66	W	4.1	7	W
20250412.03	0.67	W	3.6	8	N
20250412.06	0.71	SW	3.3	8	N
20250412.09	0.70	SW	3.3	6	NW
20250412.12	0.62	SW	3.3	5	NW

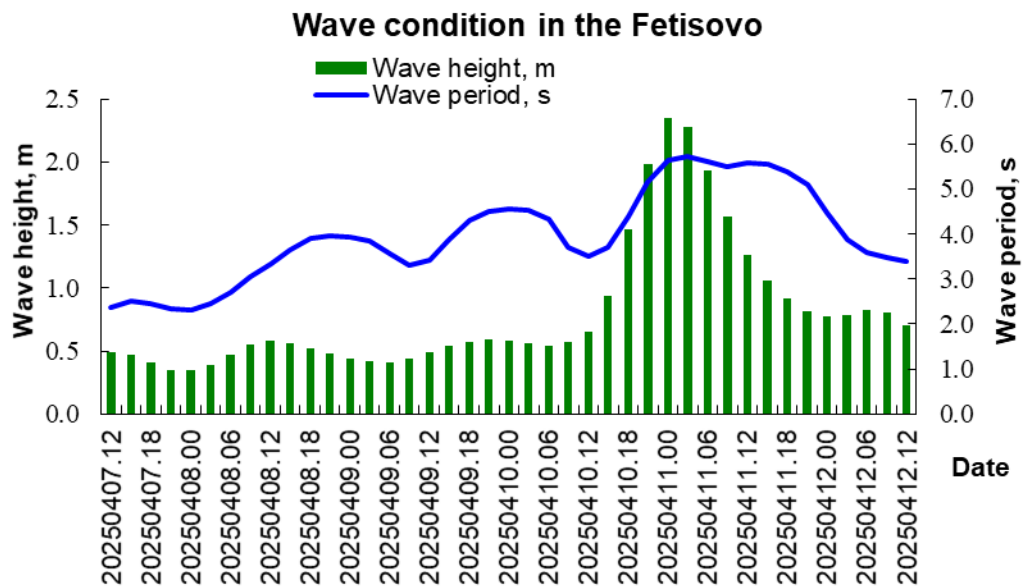
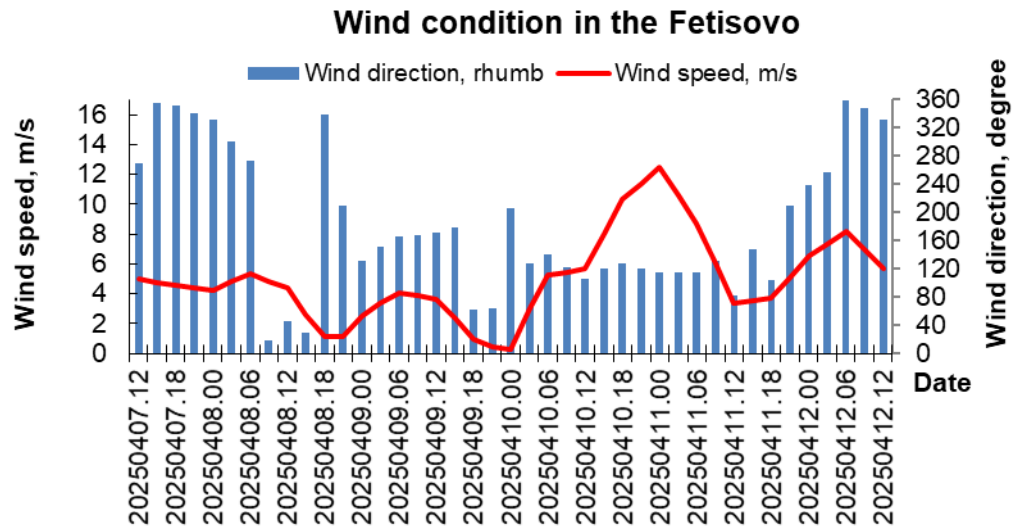
Wind condition in the Peschanyi



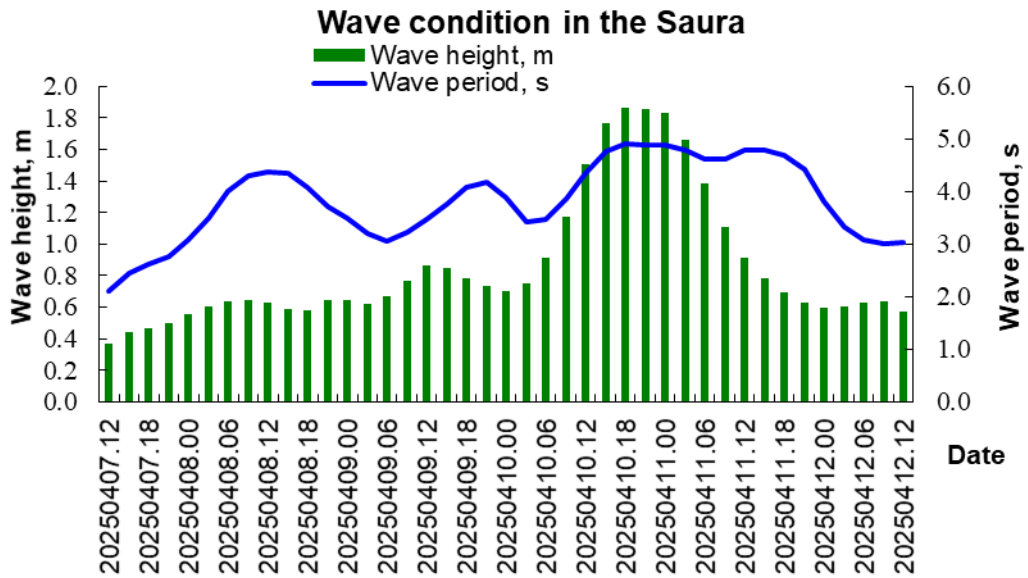
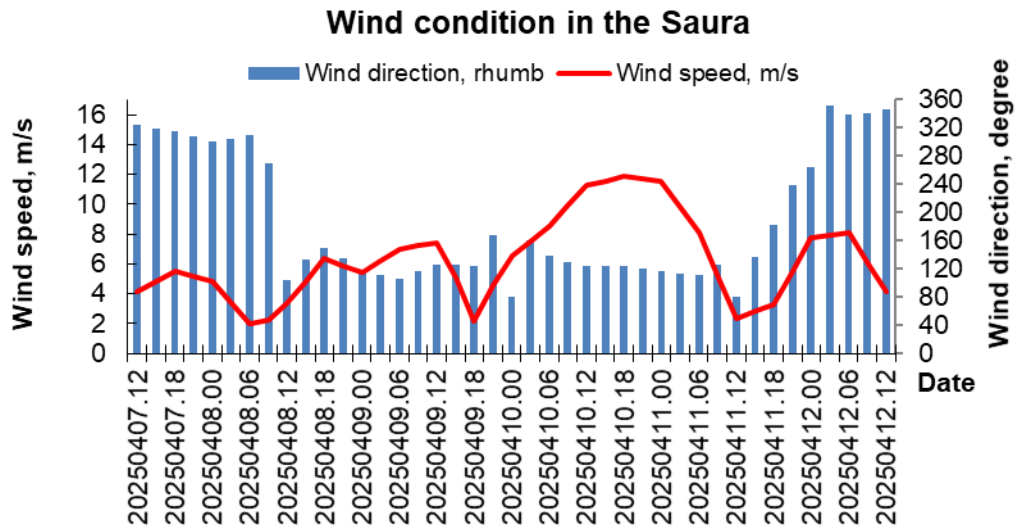
Wave condition in the Peschanyi



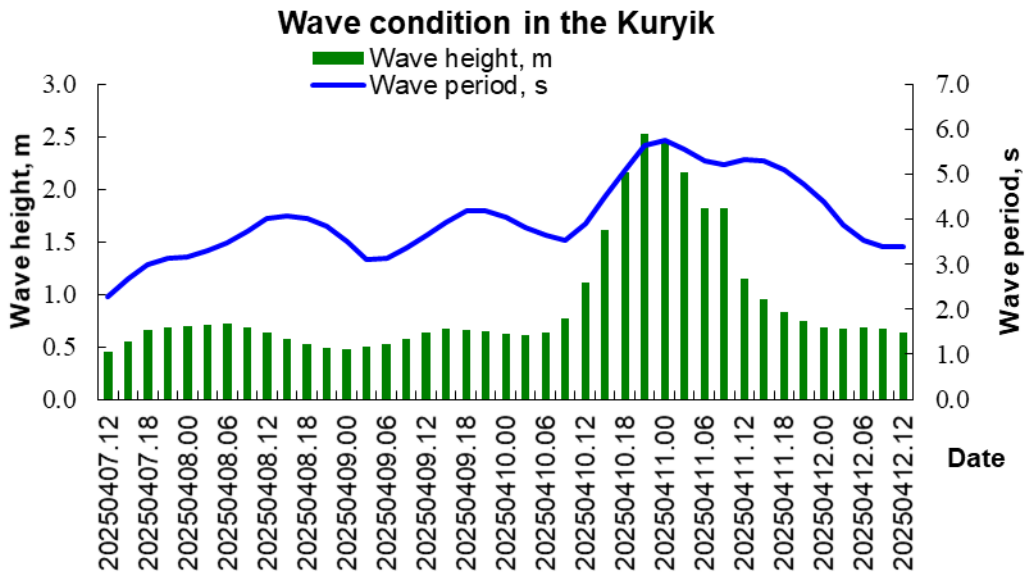
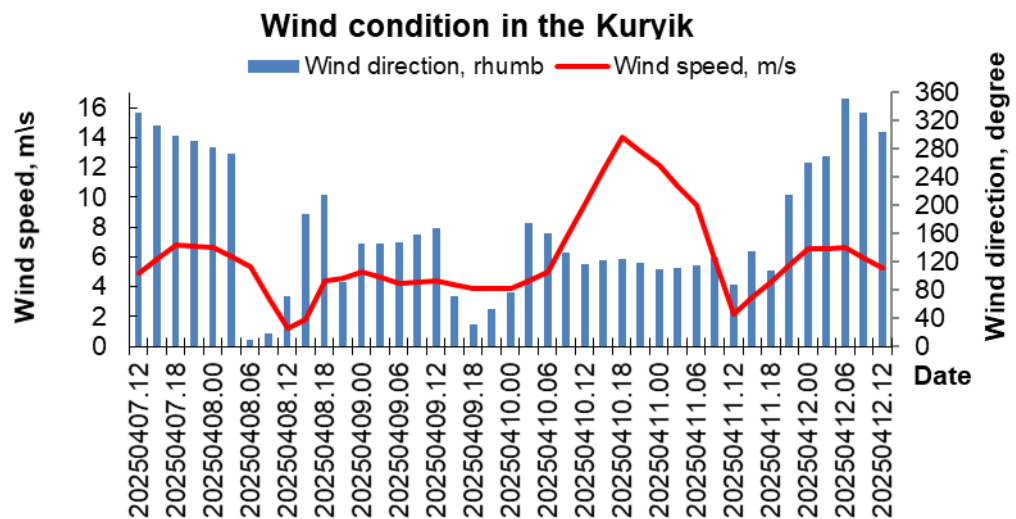
Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250407.12	0.55	SE	2.5	6	NW
20250407.15	0.66	SE	2.8	6	NW
20250407.18	0.71	SE	3.1	7	NW
20250407.21	0.72	SE	3.2	7	W
20250408.00	0.80	E	3.4	8	W
20250408.03	0.85	E	3.6	7	W
20250408.06	0.83	E	3.7	6	N
20250408.09	0.73	E	3.9	3	N
20250408.12	0.63	E	4.1	0	S
20250408.15	0.57	E	4.1	4	SE
20250408.18	0.52	E	4.0	7	SE
20250408.21	0.49	E	3.7	7	SE
20250409.00	0.51	NE	3.1	6	SE
20250409.03	0.58	N	2.9	6	SE
20250409.06	0.65	N	3.0	6	SE
20250409.09	0.72	N	3.3	6	SE
20250409.12	0.74	N	3.7	5	SE
20250409.15	0.73	N	4.0	4	E
20250409.18	0.70	NW	4.3	4	NE
20250409.21	0.67	NW	4.1	4	E
20250410.00	0.66	NW	3.8	5	S
20250410.03	0.68	NW	3.6	5	S
20250410.06	0.74	NW	3.7	5	SE
20250410.09	0.93	NW	3.7	8	SE
20250410.12	1.34	NW	4.2	11	SE
20250410.15	1.82	NW	4.8	12	SE
20250410.18	2.28	NW	5.3	14	SE
20250410.21	2.52	NW	5.7	13	SE
20250411.00	2.41	NW	5.7	12	E
20250411.03	2.12	NW	5.5	10	E
20250411.06	1.77	NW	5.3	8	E
20250411.09	1.40	NW	5.3	5	SE
20250411.12	1.13	NW	5.4	1	E
20250411.15	0.95	NW	5.3	2	SE
20250411.18	0.81	NW	5.1	4	E
20250411.21	0.72	NW	4.8	5	SW
20250412.00	0.67	NW	4.4	6	W
20250412.03	0.66	W	3.8	7	N
20250412.06	0.67	W	3.5	7	N
20250412.09	0.68	SW	3.3	6	NW
20250412.12	0.64	SW	3.3	6	NW



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250407.12	0.49	S	2.4	5	W
20250407.15	0.47	S	2.5	5	N
20250407.18	0.41	S	2.5	5	N
20250407.21	0.35	S	2.3	4	N
20250408.00	0.34	SE	2.3	4	NW
20250408.03	0.39	SE	2.5	5	NW
20250408.06	0.47	E	2.7	5	W
20250408.09	0.55	E	3.0	5	N
20250408.12	0.58	E	3.3	4	NE
20250408.15	0.56	NE	3.7	3	NE
20250408.18	0.52	NE	3.9	1	N
20250408.21	0.48	NE	4.0	1	SW
20250409.00	0.44	NE	3.9	3	SE
20250409.03	0.41	NE	3.8	3	SE
20250409.06	0.41	NE	3.6	4	S
20250409.09	0.44	NE	3.3	4	S
20250409.12	0.49	N	3.4	4	S
20250409.15	0.54	N	3.9	2	S
20250409.18	0.57	N	4.3	1	NE
20250409.21	0.59	N	4.5	0	NE
20250410.00	0.58	N	4.6	0	SW
20250410.03	0.56	N	4.5	3	SE
20250410.06	0.54	NW	4.3	5	SE
20250410.09	0.57	NW	3.7	5	SE
20250410.12	0.66	NW	3.5	6	E
20250410.15	0.93	NW	3.7	8	SE
20250410.18	1.47	NW	4.4	10	SE
20250410.21	1.99	NW	5.2	11	SE
20250411.00	2.35	NW	5.6	12	SE
20250411.03	2.27	NW	5.7	11	SE
20250411.06	1.93	NW	5.6	9	SE
20250411.09	1.57	NW	5.5	6	SE
20250411.12	1.26	NW	5.6	3	E
20250411.15	1.06	NW	5.5	4	SE
20250411.18	0.92	NW	5.4	4	E
20250411.21	0.81	NW	5.1	5	SW
20250412.00	0.77	NW	4.5	7	SW
20250412.03	0.79	W	3.9	7	W
20250412.06	0.83	W	3.6	8	N
20250412.09	0.81	SW	3.5	7	N
20250412.12	0.71	SW	3.4	6	NW



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250407.12	0.37	SE	2.1	4	NW
20250407.15	0.44	SE	2.4	5	NW
20250407.18	0.47	SE	2.6	6	NW
20250407.21	0.50	SE	2.8	5	NW
20250408.00	0.56	SE	3.1	5	NW
20250408.03	0.61	E	3.5	3	NW
20250408.06	0.63	E	4.0	2	NW
20250408.09	0.64	E	4.3	2	W
20250408.12	0.63	E	4.4	3	E
20250408.15	0.59	E	4.3	5	SE
20250408.18	0.58	E	4.1	6	SE
20250408.21	0.65	NE	3.7	6	SE
20250409.00	0.64	NE	3.5	5	SE
20250409.03	0.62	N	3.2	6	E
20250409.06	0.67	NW	3.1	7	E
20250409.09	0.77	NW	3.2	7	SE
20250409.12	0.86	NW	3.5	7	SE
20250409.15	0.85	NW	3.8	5	SE
20250409.18	0.78	W	4.1	2	SE
20250409.21	0.73	W	4.2	5	S
20250410.00	0.71	W	3.9	7	E
20250410.03	0.75	NW	3.4	8	S
20250410.06	0.92	NW	3.5	9	SE
20250410.09	1.17	NW	3.9	10	SE
20250410.12	1.51	NW	4.4	11	SE
20250410.15	1.77	NW	4.8	12	SE
20250410.18	1.86	NW	4.9	12	SE
20250410.21	1.85	NW	4.9	12	SE
20250411.00	1.83	NW	4.9	12	SE
20250411.03	1.66	NW	4.8	10	SE
20250411.06	1.39	NW	4.6	8	E
20250411.09	1.11	NW	4.6	5	SE
20250411.12	0.91	NW	4.8	2	E
20250411.15	0.78	NW	4.8	3	SE
20250411.18	0.69	NW	4.7	3	S
20250411.21	0.63	NW	4.4	6	SW
20250412.00	0.60	W	3.8	8	W
20250412.03	0.61	W	3.3	8	N
20250412.06	0.63	SW	3.1	8	N
20250412.09	0.64	S	3.0	6	N
20250412.12	0.57	S	3.0	4	N



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250407.12	0.45	SE	2.3	5	NW
20250407.15	0.56	SE	2.7	6	NW
20250407.18	0.66	SE	3.0	7	NW
20250407.21	0.69	SE	3.1	7	W
20250408.00	0.70	SE	3.2	7	W
20250408.03	0.71	E	3.3	6	W
20250408.06	0.72	E	3.5	5	N
20250408.09	0.69	E	3.7	3	N
20250408.12	0.63	E	4.0	1	E
20250408.15	0.58	E	4.1	2	S
20250408.18	0.53	E	4.0	4	SW
20250408.21	0.49	E	3.9	5	E
20250409.00	0.48	E	3.5	5	SE
20250409.03	0.50	NE	3.1	5	SE
20250409.06	0.53	N	3.1	4	SE
20250409.09	0.58	N	3.4	4	S
20250409.12	0.63	N	3.7	4	S
20250409.15	0.67	N	3.9	4	E
20250409.18	0.67	N	4.2	4	NE
20250409.21	0.65	NW	4.2	4	NE
20250410.00	0.62	NW	4.1	4	E
20250410.03	0.61	NW	3.8	4	S
20250410.06	0.64	NW	3.6	5	S
20250410.09	0.77	NW	3.5	7	SE
20250410.12	1.11	NW	3.9	10	SE
20250410.15	1.61	NW	4.5	12	SE
20250410.18	2.16	NW	5.1	14	SE
20250410.21	2.52	NW	5.6	13	SE
20250411.00	2.45	NW	5.7	12	E
20250411.03	2.15	NW	5.5	11	E
20250411.06	1.81	NW	5.3	9	SE
20250411.09	1.81	NW	5.2	6	SE
20250411.12	1.15	NW	5.3	2	E
20250411.15	0.96	NW	5.3	3	SE
20250411.18	0.83	NW	5.1	4	E
20250411.21	0.74	NW	4.8	5	SW
20250412.00	0.69	NW	4.4	7	W
20250412.03	0.67	W	3.9	7	W
20250412.06	0.68	W	3.5	7	N
20250412.09	0.67	SW	3.4	6	NW
20250412.12	0.64	SW	3.4	5	NW

**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

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