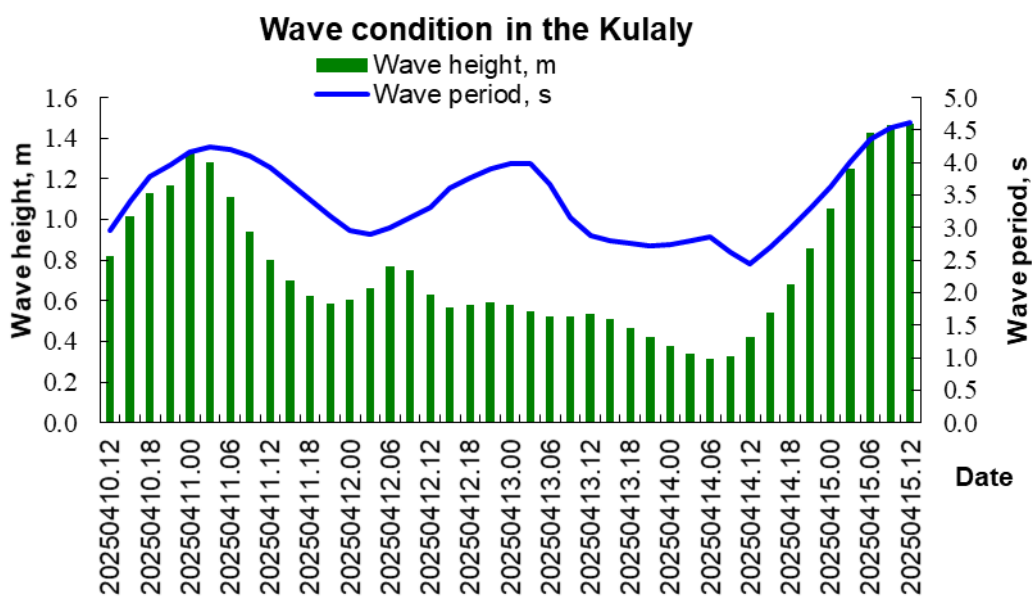
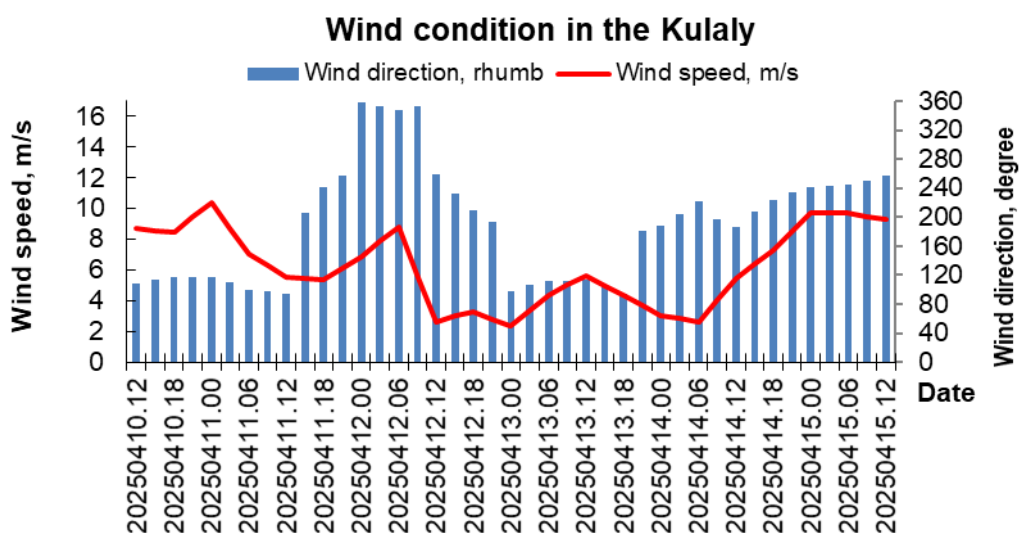




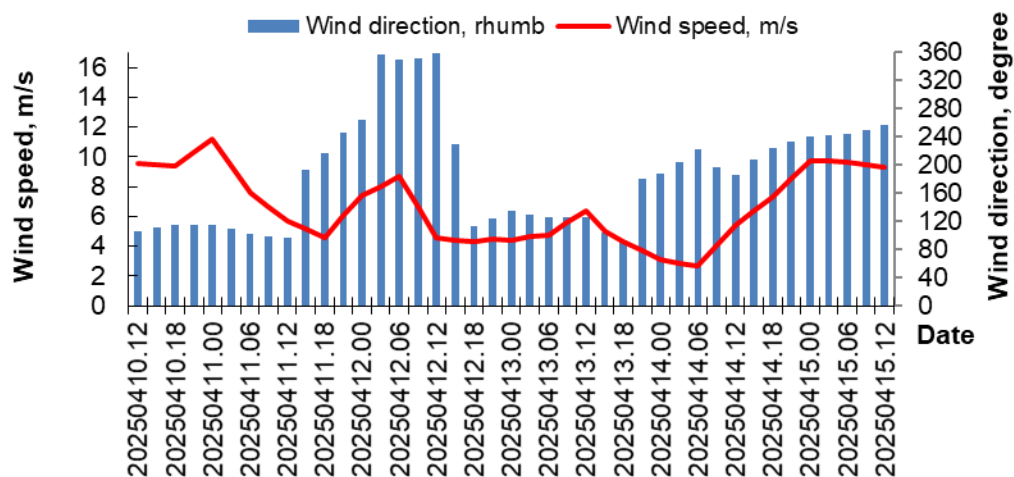
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 10 –15, 2025.**

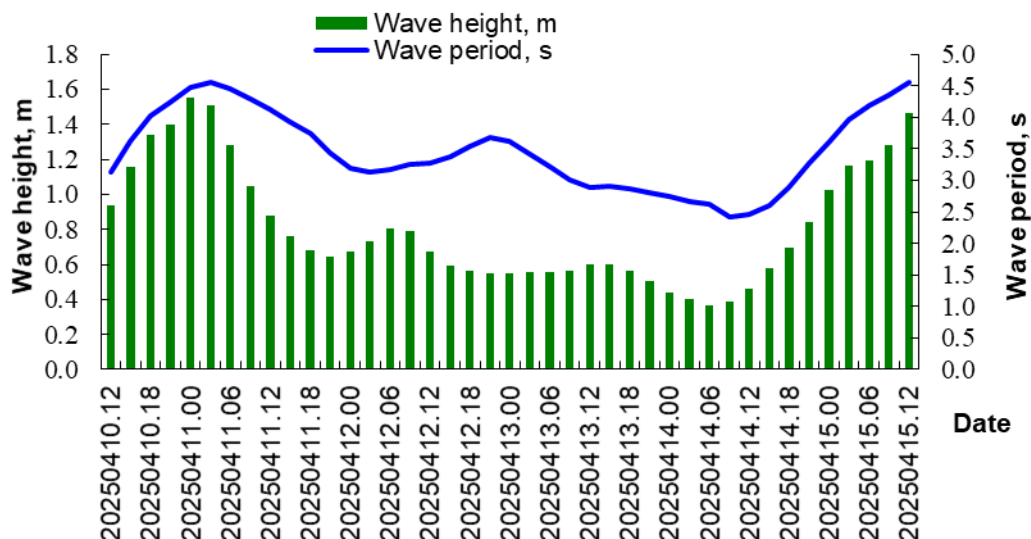


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250410.12	0.82	W	3.0	9	E
20250410.15	1.02	W	3.4	9	SE
20250410.18	1.13	W	3.8	8	SE
20250410.21	1.17	NW	4.0	9	SE
20250411.00	1.33	NW	4.2	10	SE
20250411.03	1.28	NW	4.2	9	E
20250411.06	1.11	NW	4.2	7	E
20250411.09	0.94	W	4.1	6	E
20250411.12	0.80	W	3.9	6	E
20250411.15	0.70	W	3.7	5	SW
20250411.18	0.62	W	3.4	5	SW
20250411.21	0.59	W	3.2	6	W
20250412.00	0.61	SW	3.0	7	N
20250412.03	0.66	SW	2.9	8	N
20250412.06	0.77	S	3.0	9	N
20250412.09	0.75	S	3.1	6	N
20250412.12	0.63	S	3.3	3	W
20250412.15	0.56	S	3.6	3	SW
20250412.18	0.58	S	3.8	3	SW
20250412.21	0.59	S	3.9	3	S
20250413.00	0.58	S	4.0	2	E
20250413.03	0.55	S	4.0	3	E
20250413.06	0.53	SW	3.7	4	E
20250413.09	0.52	SW	3.2	5	SE
20250413.12	0.53	W	2.9	6	SE
20250413.15	0.51	W	2.8	5	E
20250413.18	0.47	W	2.8	4	E
20250413.21	0.42	W	2.7	4	S
20250414.00	0.38	W	2.7	3	S
20250414.03	0.34	SW	2.8	3	SW
20250414.06	0.32	SW	2.9	3	SW
20250414.09	0.33	SW	2.6	4	S
20250414.12	0.42	W	2.4	5	S
20250414.15	0.54	SW	2.7	6	SW
20250414.18	0.68	SW	3.0	7	SW
20250414.21	0.86	SW	3.3	9	SW
20250415.00	1.06	SW	3.6	10	SW
20250415.03	1.25	SW	4.0	10	SW
20250415.06	1.42	SW	4.4	10	SW
20250415.09	1.47	SW	4.5	9	W
20250415.12	1.47	SW	4.6	9	W

Wind condition in the Fort-Shevchenko

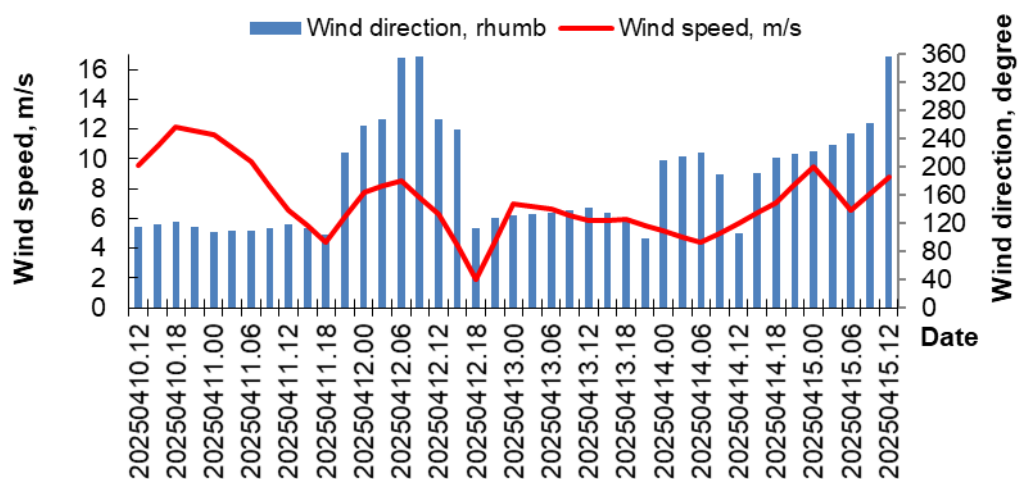


Wave condition in the Fort-Shevchenko

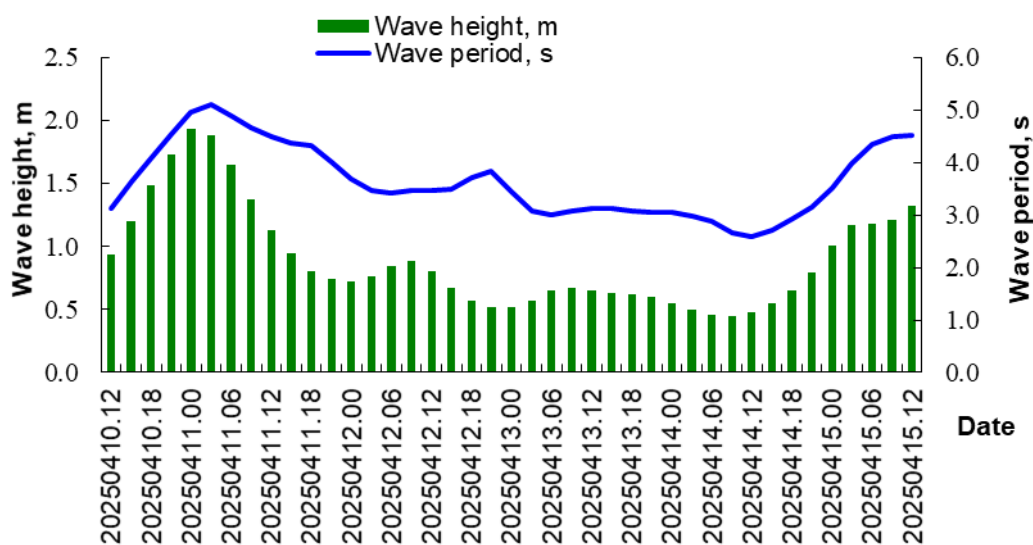


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250410.12	0.94	W	3.1	10	E
20250410.15	1.16	W	3.6	9	E
20250410.18	1.34	W	4.0	9	SE
20250410.21	1.40	W	4.2	10	SE
20250411.00	1.56	NW	4.5	11	SE
20250411.03	1.51	NW	4.6	9	E
20250411.06	1.28	NW	4.5	8	E
20250411.09	1.05	NW	4.3	7	E
20250411.12	0.88	W	4.1	6	E
20250411.15	0.76	W	3.9	5	S
20250411.18	0.68	W	3.7	5	SW
20250411.21	0.65	W	3.4	6	SW
20250412.00	0.67	SW	3.2	7	W
20250412.03	0.73	SW	3.1	8	N
20250412.06	0.81	S	3.2	9	N
20250412.09	0.79	S	3.3	7	N
20250412.12	0.68	S	3.3	5	N
20250412.15	0.60	S	3.4	4	SW
20250412.18	0.57	S	3.5	4	SE
20250412.21	0.55	S	3.7	4	SE
20250413.00	0.55	S	3.6	4	SE
20250413.03	0.55	SW	3.4	5	SE
20250413.06	0.55	SW	3.2	5	SE
20250413.09	0.57	W	3.0	6	SE
20250413.12	0.60	W	2.9	6	SE
20250413.15	0.60	W	2.9	5	E
20250413.18	0.56	W	2.9	4	E
20250413.21	0.50	W	2.8	4	S
20250414.00	0.44	W	2.7	3	S
20250414.03	0.40	W	2.7	3	SW
20250414.06	0.37	W	2.6	3	SW
20250414.09	0.39	W	2.4	4	S
20250414.12	0.46	W	2.5	5	S
20250414.15	0.58	W	2.6	6	SW
20250414.18	0.69	W	2.9	7	SW
20250414.21	0.84	SW	3.3	9	SW
20250415.00	1.02	SW	3.6	10	SW
20250415.03	1.17	SW	4.0	10	SW
20250415.06	1.20	SW	4.2	10	SW
20250415.09	1.28	SW	4.4	9	W
20250415.12	1.46	SW	4.6	9	W

Wind condition in the Aktau

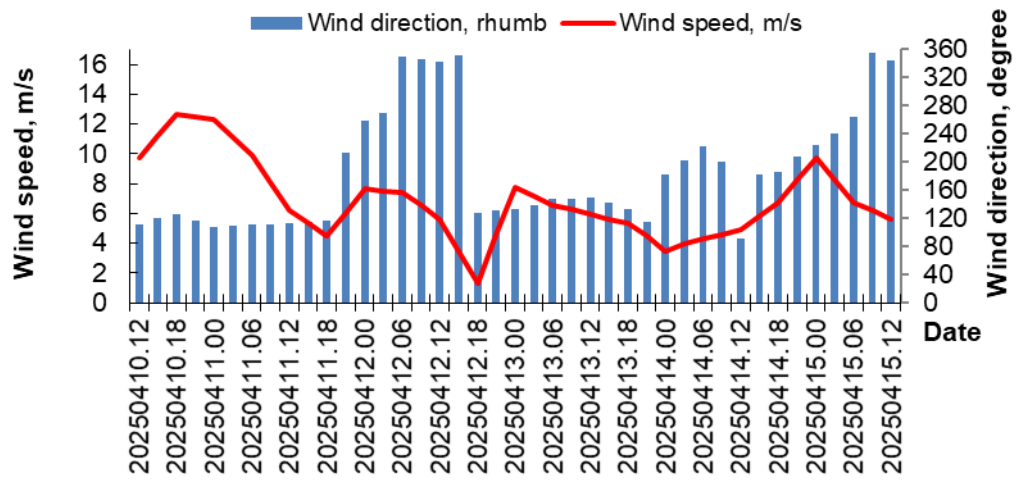


Wave condition in the Aktau

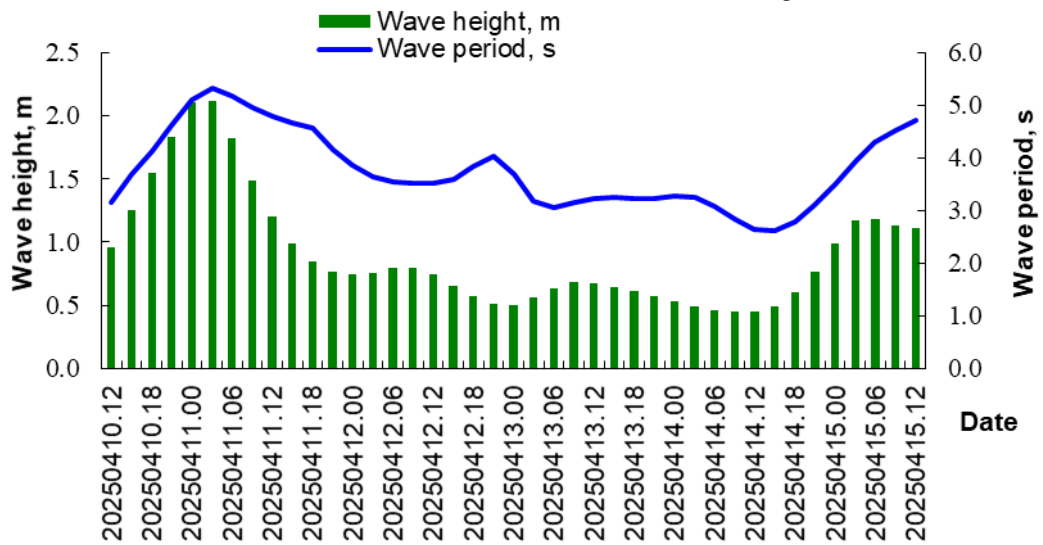


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250410.12	0.93	NW	3.1	10	SE
20250410.15	1.20	NW	3.6	11	SE
20250410.18	1.48	NW	4.1	12	SE
20250410.21	1.73	NW	4.5	12	SE
20250411.00	1.93	NW	5.0	12	E
20250411.03	1.88	NW	5.1	11	E
20250411.06	1.65	NW	4.9	10	E
20250411.09	1.37	NW	4.7	8	SE
20250411.12	1.13	NW	4.5	7	SE
20250411.15	0.94	NW	4.4	5	SE
20250411.18	0.81	NW	4.3	4	E
20250411.21	0.74	W	4.0	6	SW
20250412.00	0.72	W	3.7	8	W
20250412.03	0.77	W	3.5	8	W
20250412.06	0.84	SW	3.4	9	N
20250412.09	0.88	SW	3.5	7	N
20250412.12	0.80	S	3.5	6	W
20250412.15	0.67	S	3.5	4	W
20250412.18	0.57	S	3.7	2	SE
20250412.21	0.51	S	3.8	4	SE
20250413.00	0.51	SW	3.4	7	SE
20250413.03	0.57	W	3.1	7	SE
20250413.06	0.65	W	3.0	7	SE
20250413.09	0.68	NW	3.1	6	SE
20250413.12	0.65	NW	3.1	6	SE
20250413.15	0.63	NW	3.1	6	SE
20250413.18	0.62	NW	3.1	6	SE
20250413.21	0.60	NW	3.1	6	E
20250414.00	0.55	NW	3.1	5	SW
20250414.03	0.50	NW	3.0	5	SW
20250414.06	0.46	W	2.9	4	SW
20250414.09	0.44	W	2.7	5	S
20250414.12	0.48	W	2.6	6	E
20250414.15	0.55	W	2.7	6	S
20250414.18	0.65	W	2.9	7	SW
20250414.21	0.79	W	3.2	8	SW
20250415.00	1.00	SW	3.5	9	SW
20250415.03	1.17	SW	4.0	8	SW
20250415.06	1.18	SW	4.3	7	SW
20250415.09	1.21	SW	4.5	8	W
20250415.12	1.32	SW	4.5	9	N

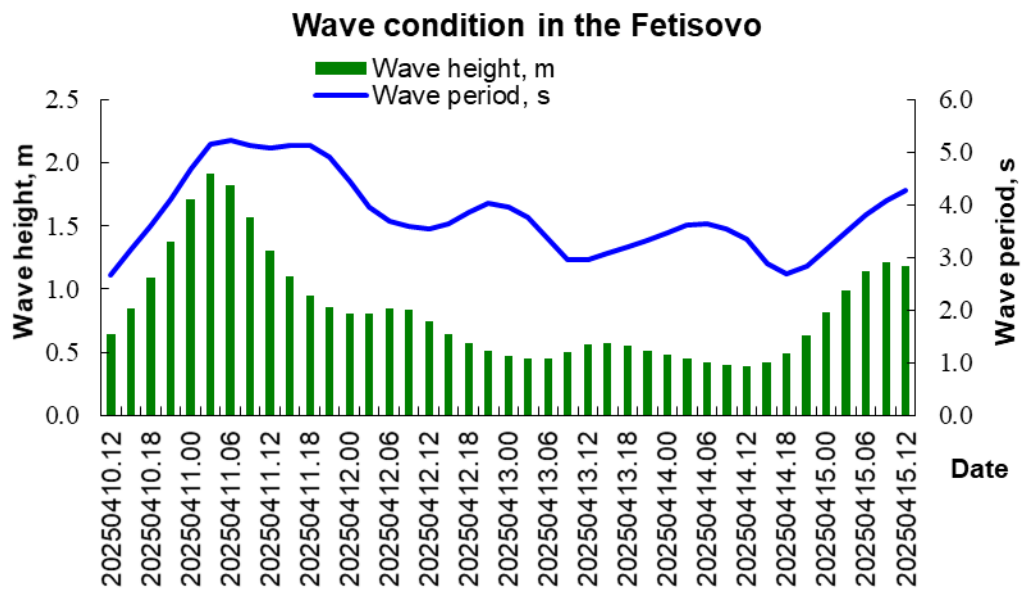
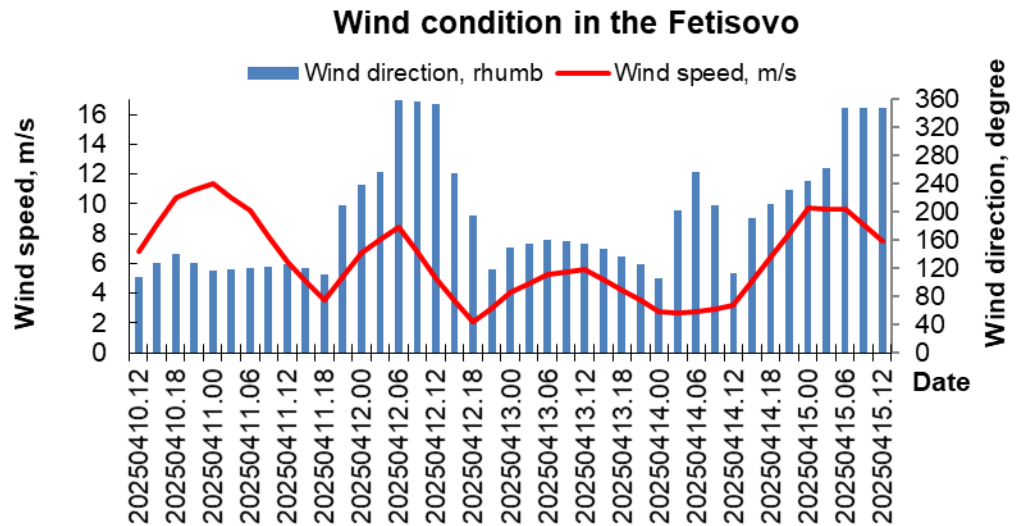
Wind condition in the Peschanyi



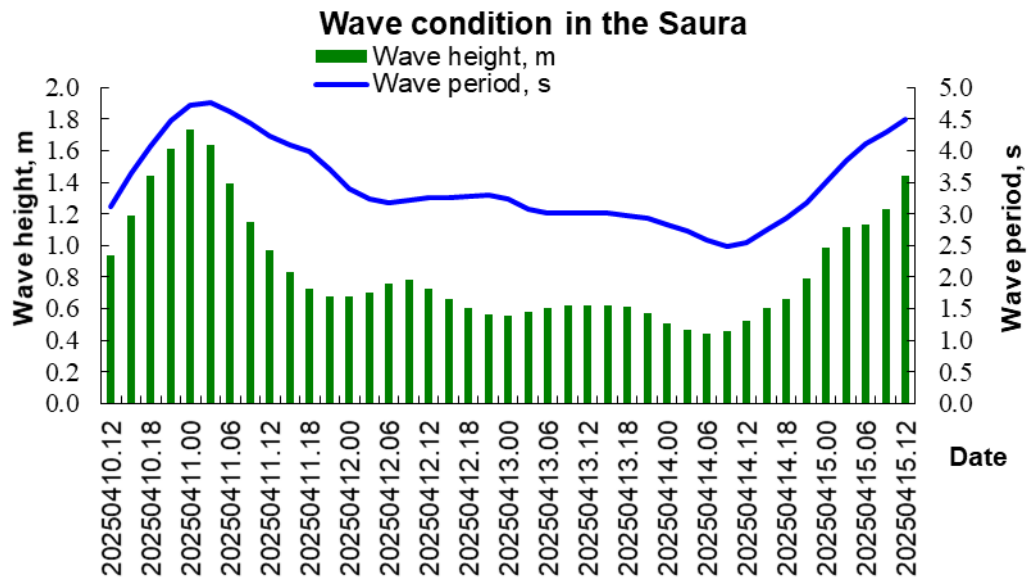
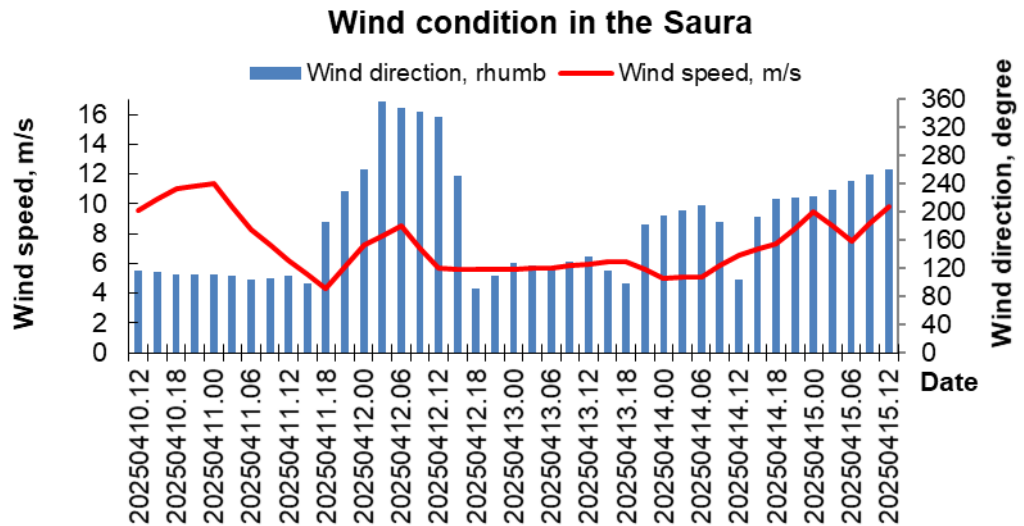
Wave condition in the Peschanyi



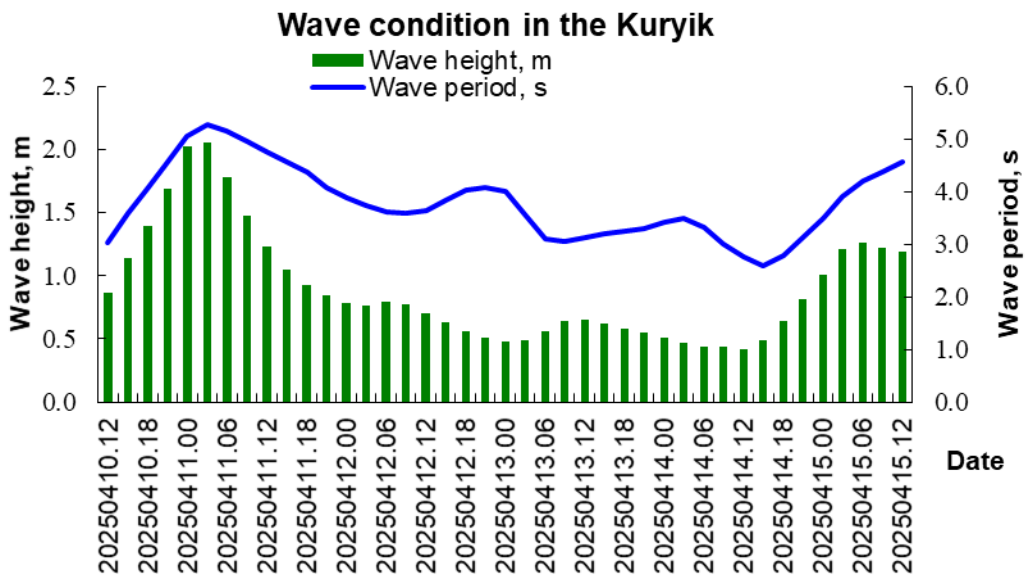
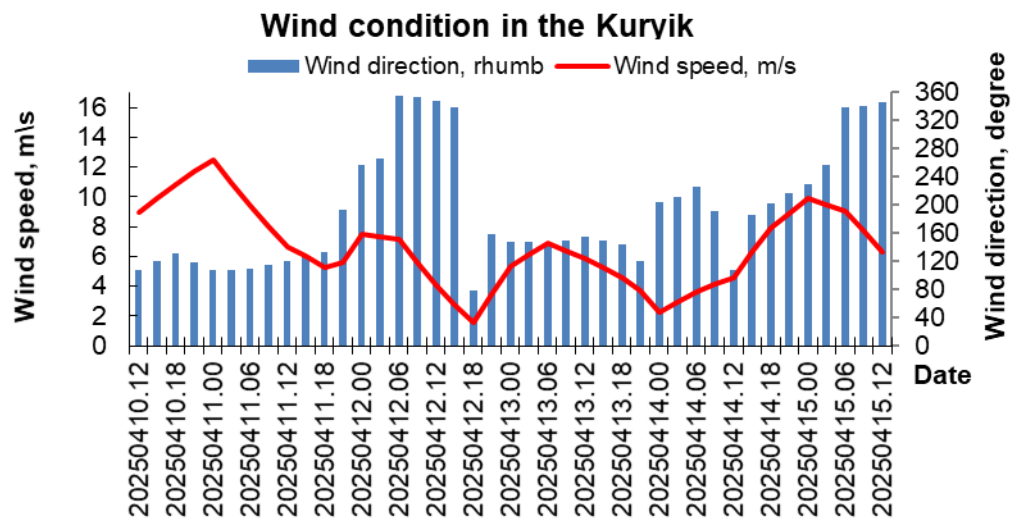
Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250410.12	0.96	W	3.2	10	E
20250410.15	1.25	NW	3.7	11	SE
20250410.18	1.55	NW	4.1	13	SE
20250410.21	1.83	NW	4.6	12	SE
20250411.00	2.11	NW	5.1	12	E
20250411.03	2.12	NW	5.3	11	E
20250411.06	1.82	NW	5.2	10	E
20250411.09	1.49	NW	5.0	8	E
20250411.12	1.20	NW	4.8	6	SE
20250411.15	0.99	NW	4.7	5	SE
20250411.18	0.84	NW	4.6	4	SE
20250411.21	0.77	W	4.2	6	SW
20250412.00	0.74	W	3.9	8	W
20250412.03	0.76	W	3.7	8	W
20250412.06	0.80	SW	3.5	7	N
20250412.09	0.80	SW	3.5	7	N
20250412.12	0.74	SW	3.5	6	N
20250412.15	0.66	SW	3.6	3	N
20250412.18	0.57	SW	3.8	1	SE
20250412.21	0.52	SW	4.0	5	SE
20250413.00	0.50	SW	3.7	8	SE
20250413.03	0.56	W	3.2	7	SE
20250413.06	0.63	NW	3.1	7	SE
20250413.09	0.68	NW	3.2	6	SE
20250413.12	0.68	NW	3.2	6	SE
20250413.15	0.65	NW	3.3	6	SE
20250413.18	0.61	NW	3.2	5	SE
20250413.21	0.58	NW	3.2	5	SE
20250414.00	0.53	NW	3.3	3	S
20250414.03	0.49	NW	3.2	4	S
20250414.06	0.46	NW	3.1	4	SW
20250414.09	0.45	W	2.8	5	S
20250414.12	0.45	W	2.6	5	E
20250414.15	0.49	W	2.6	6	S
20250414.18	0.60	W	2.8	7	S
20250414.21	0.77	W	3.1	8	SW
20250415.00	0.99	SW	3.5	10	SW
20250415.03	1.17	SW	3.9	8	SW
20250415.06	1.18	SW	4.3	7	W
20250415.09	1.13	SW	4.5	6	N
20250415.12	1.11	SW	4.7	6	N



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250410.12	0.65	W	2.7	7	E
20250410.15	0.85	NW	3.1	9	SE
20250410.18	1.09	NW	3.6	10	SE
20250410.21	1.37	NW	4.1	11	SE
20250411.00	1.71	NW	4.7	11	SE
20250411.03	1.92	NW	5.1	10	SE
20250411.06	1.82	NW	5.2	10	SE
20250411.09	1.57	NW	5.1	8	SE
20250411.12	1.31	NW	5.1	6	SE
20250411.15	1.10	NW	5.1	5	SE
20250411.18	0.95	NW	5.1	4	E
20250411.21	0.86	NW	4.9	5	SW
20250412.00	0.81	NW	4.4	7	SW
20250412.03	0.81	W	4.0	8	W
20250412.06	0.84	W	3.7	8	N
20250412.09	0.84	SW	3.6	7	N
20250412.12	0.75	SW	3.5	5	N
20250412.15	0.64	SW	3.6	3	W
20250412.18	0.57	W	3.9	2	S
20250412.21	0.51	W	4.0	3	SE
20250413.00	0.47	W	4.0	4	SE
20250413.03	0.45	W	3.8	5	SE
20250413.06	0.45	W	3.4	5	S
20250413.09	0.50	NW	3.0	5	S
20250413.12	0.56	NW	3.0	6	SE
20250413.15	0.57	N	3.1	5	SE
20250413.18	0.55	N	3.2	4	SE
20250413.21	0.51	NW	3.3	4	SE
20250414.00	0.48	NW	3.5	3	E
20250414.03	0.44	NW	3.6	3	SW
20250414.06	0.42	NW	3.6	3	W
20250414.09	0.40	NW	3.5	3	SW
20250414.12	0.39	NW	3.3	3	SE
20250414.15	0.42	NW	2.9	5	S
20250414.18	0.49	W	2.7	6	SW
20250414.21	0.64	W	2.8	8	SW
20250415.00	0.82	SW	3.1	10	SW
20250415.03	0.99	SW	3.5	10	W
20250415.06	1.14	SW	3.8	10	N
20250415.09	1.21	SW	4.1	9	N
20250415.12	1.18	S	4.3	7	N



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250410.12	0.94	NW	3.1	10	SE
20250410.15	1.19	NW	3.6	10	SE
20250410.18	1.44	NW	4.1	11	E
20250410.21	1.62	NW	4.5	11	E
20250411.00	1.74	NW	4.7	11	E
20250411.03	1.64	NW	4.8	10	E
20250411.06	1.39	NW	4.6	8	E
20250411.09	1.15	NW	4.4	7	E
20250411.12	0.97	NW	4.2	6	E
20250411.15	0.83	NW	4.1	5	E
20250411.18	0.73	W	4.0	4	S
20250411.21	0.68	W	3.7	6	SW
20250412.00	0.67	W	3.4	7	W
20250412.03	0.71	SW	3.2	8	N
20250412.06	0.76	SW	3.2	9	N
20250412.09	0.78	S	3.2	7	N
20250412.12	0.72	S	3.3	6	NW
20250412.15	0.66	S	3.3	6	W
20250412.18	0.60	S	3.3	6	E
20250412.21	0.56	S	3.3	6	E
20250413.00	0.55	SW	3.2	6	SE
20250413.03	0.58	W	3.1	6	SE
20250413.06	0.61	W	3.0	6	SE
20250413.09	0.62	W	3.0	6	SE
20250413.12	0.62	NW	3.0	6	SE
20250413.15	0.62	NW	3.0	6	SE
20250413.18	0.62	NW	3.0	6	E
20250413.21	0.57	W	2.9	6	S
20250414.00	0.51	W	2.8	5	S
20250414.03	0.47	W	2.7	5	SW
20250414.06	0.44	W	2.6	5	SW
20250414.09	0.46	W	2.5	6	S
20250414.12	0.52	W	2.5	7	E
20250414.15	0.60	W	2.8	7	S
20250414.18	0.66	W	2.9	7	SW
20250414.21	0.79	SW	3.2	8	SW
20250415.00	0.98	SW	3.5	9	SW
20250415.03	1.12	SW	3.8	9	SW
20250415.06	1.13	SW	4.1	8	SW
20250415.09	1.23	SW	4.3	9	W
20250415.12	1.44	S	4.5	10	W



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250410.12	0.86	W	3.0	9	E
20250410.15	1.14	NW	3.6	10	SE
20250410.18	1.40	NW	4.1	11	SE
20250410.21	1.69	NW	4.6	12	SE
20250411.00	2.03	NW	5.0	13	E
20250411.03	2.05	NW	5.3	11	E
20250411.06	1.77	NW	5.2	9	E
20250411.09	1.47	NW	5.0	8	SE
20250411.12	1.23	NW	4.8	7	SE
20250411.15	1.04	NW	4.6	6	SE
20250411.18	0.93	NW	4.4	5	SE
20250411.21	0.85	NW	4.1	6	S
20250412.00	0.78	W	3.9	7	W
20250412.03	0.77	W	3.7	7	W
20250412.06	0.79	W	3.6	7	N
20250412.09	0.78	SW	3.6	6	N
20250412.12	0.71	SW	3.6	4	N
20250412.15	0.63	SW	3.8	3	N
20250412.18	0.56	SW	4.0	2	E
20250412.21	0.51	SW	4.1	3	S
20250413.00	0.48	SW	4.0	5	SE
20250413.03	0.49	SW	3.6	6	SE
20250413.06	0.56	NW	3.1	7	SE
20250413.09	0.64	NW	3.0	6	SE
20250413.12	0.65	NW	3.1	6	SE
20250413.15	0.62	NW	3.2	5	SE
20250413.18	0.58	NW	3.2	5	SE
20250413.21	0.55	NW	3.3	4	SE
20250414.00	0.51	NW	3.4	2	SW
20250414.03	0.47	NW	3.5	3	SW
20250414.06	0.44	NW	3.3	4	SW
20250414.09	0.44	NW	3.0	4	S
20250414.12	0.42	NW	2.8	5	E
20250414.15	0.49	W	2.6	6	S
20250414.18	0.64	W	2.8	8	S
20250414.21	0.81	W	3.1	9	SW
20250415.00	1.01	SW	3.5	10	SW
20250415.03	1.21	SW	3.9	9	W
20250415.06	1.26	SW	4.2	9	N
20250415.09	1.22	SW	4.4	8	N
20250415.12	1.19	SW	4.6	6	N

**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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