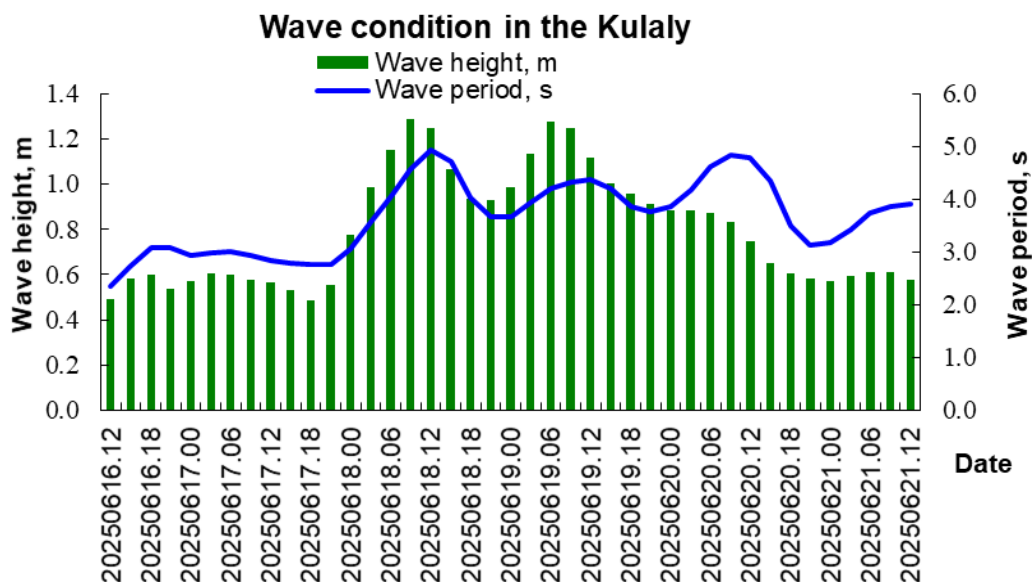
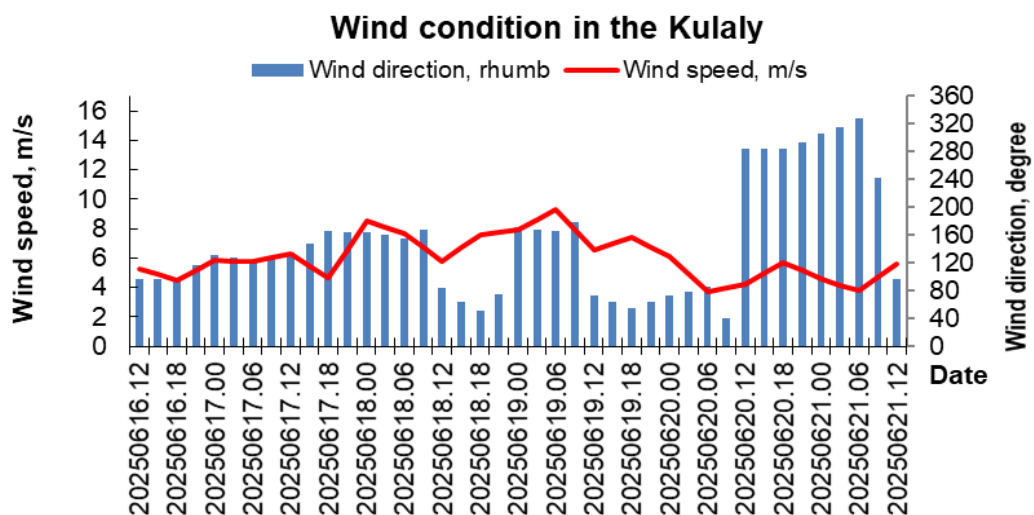




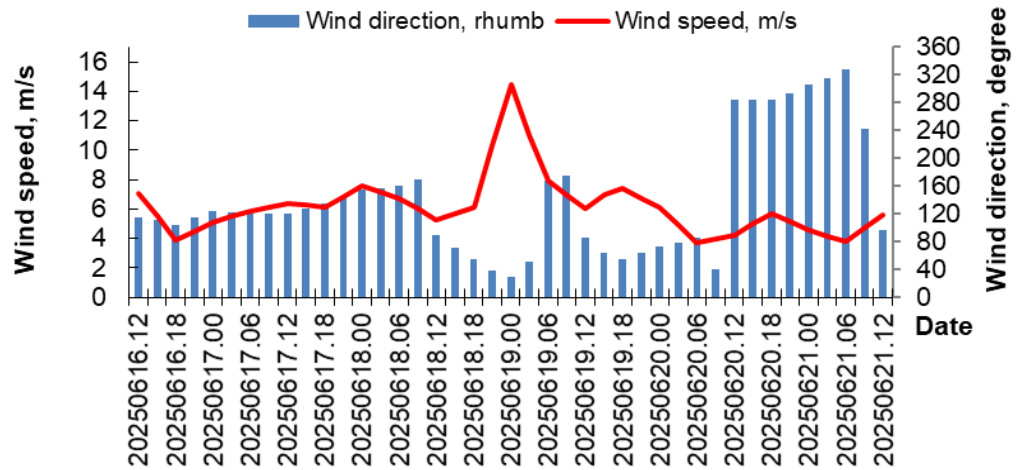
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period June 16 – 21, 2025.**

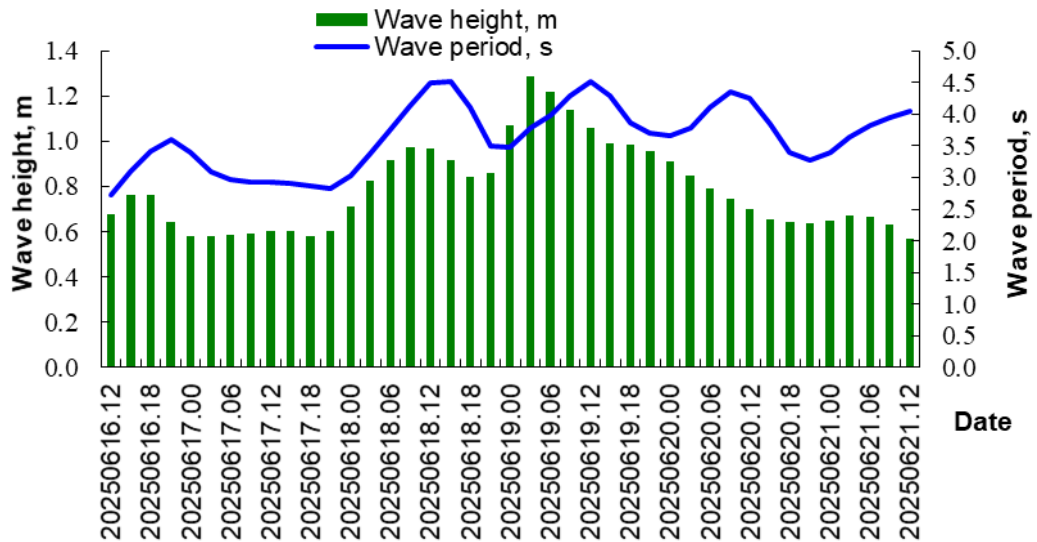


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250616.12	0.49	W	2.4	5	E
20250616.15	0.58	W	2.8	5	E
20250616.18	0.60	W	3.1	4	E
20250616.21	0.53	W	3.1	5	SE
20250617.00	0.57	W	2.9	6	SE
20250617.03	0.61	W	3.0	6	SE
20250617.06	0.60	W	3.0	6	SE
20250617.09	0.58	W	2.9	6	SE
20250617.12	0.57	NW	2.8	6	SE
20250617.15	0.53	NW	2.8	5	SE
20250617.18	0.48	NW	2.8	5	S
20250617.21	0.56	NW	2.8	7	S
20250618.00	0.77	NW	3.1	9	S
20250618.03	0.98	NW	3.6	8	S
20250618.06	1.15	NW	4.1	8	SE
20250618.09	1.29	NW	4.6	7	S
20250618.12	1.25	NW	4.9	6	E
20250618.15	1.07	N	4.7	7	NE
20250618.18	0.94	N	4.0	8	NE
20250618.21	0.93	N	3.7	8	E
20250619.00	0.99	N	3.7	8	S
20250619.03	1.13	N	3.9	9	S
20250619.06	1.28	N	4.2	9	S
20250619.09	1.25	N	4.3	8	S
20250619.12	1.12	N	4.4	7	E
20250619.15	1.00	N	4.2	7	NE
20250619.18	0.96	N	3.9	7	NE
20250619.21	0.91	N	3.8	7	NE
20250620.00	0.88	N	3.9	6	E
20250620.03	0.88	N	4.2	5	E
20250620.06	0.87	N	4.6	4	E
20250620.09	0.83	N	4.8	4	NE
20250620.12	0.75	N	4.8	4	W
20250620.15	0.65	N	4.4	5	W
20250620.18	0.60	N	3.5	6	W
20250620.21	0.58	NE	3.1	5	NW
20250621.00	0.57	E	3.2	5	NW
20250621.03	0.59	E	3.4	4	NW
20250621.06	0.61	E	3.7	4	NW
20250621.09	0.61	E	3.9	5	SW
20250621.12	0.58	E	3.9	6	E

Wind condition in the Fort-Shevchenko

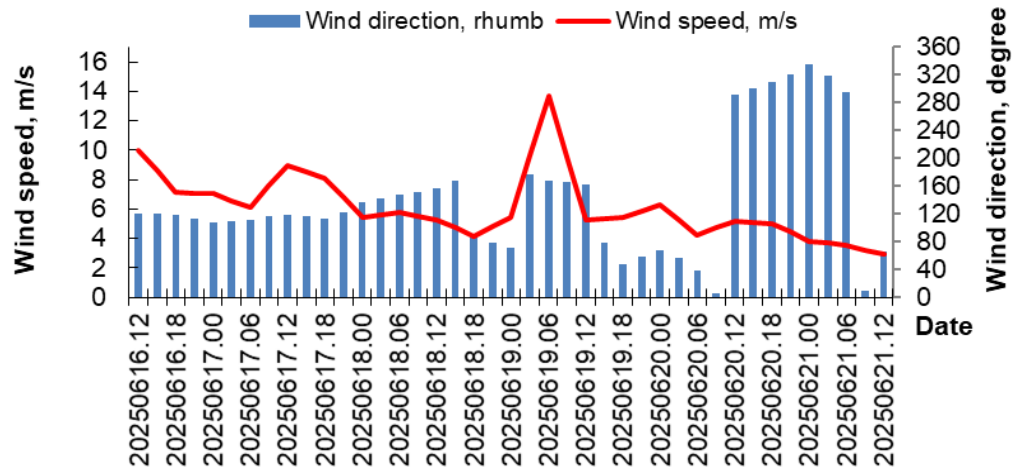


Wave condition in the Fort-Shevchenko

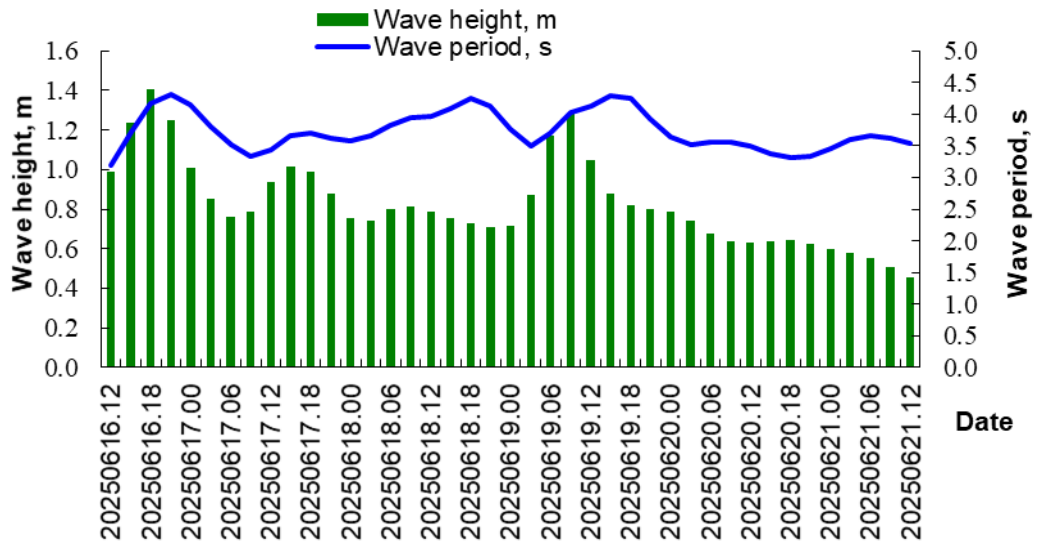


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250616.12	0.68	NW	2.7	7	SE
20250616.15	0.77	W	3.1	5	E
20250616.18	0.76	W	3.4	4	E
20250616.21	0.64	W	3.6	5	SE
20250617.00	0.58	W	3.4	5	SE
20250617.03	0.58	W	3.1	5	SE
20250617.06	0.59	W	3.0	6	SE
20250617.09	0.59	W	2.9	6	SE
20250617.12	0.61	W	2.9	6	SE
20250617.15	0.60	W	2.9	6	SE
20250617.18	0.58	NW	2.9	6	SE
20250617.21	0.60	NW	2.8	7	SE
20250618.00	0.71	NW	3.0	8	SE
20250618.03	0.82	NW	3.4	7	SE
20250618.06	0.92	NW	3.8	7	S
20250618.09	0.97	NW	4.1	6	S
20250618.12	0.97	NW	4.5	5	E
20250618.15	0.92	NW	4.5	6	E
20250618.18	0.84	NW	4.1	6	NE
20250618.21	0.86	N	3.5	10	NE
20250619.00	1.07	NE	3.5	14	NE
20250619.03	1.28	NE	3.8	11	NE
20250619.06	1.22	N	4.0	8	S
20250619.09	1.14	N	4.3	7	S
20250619.12	1.06	N	4.5	6	E
20250619.15	0.99	N	4.3	7	NE
20250619.18	0.98	N	3.9	7	NE
20250619.21	0.96	N	3.7	7	NE
20250620.00	0.91	N	3.7	6	E
20250620.03	0.85	N	3.8	5	E
20250620.06	0.79	N	4.1	4	E
20250620.09	0.74	N	4.4	4	NE
20250620.12	0.70	N	4.3	4	W
20250620.15	0.66	N	3.9	5	W
20250620.18	0.64	N	3.4	6	W
20250620.21	0.64	NE	3.3	5	NW
20250621.00	0.65	E	3.4	5	NW
20250621.03	0.67	E	3.6	4	NW
20250621.06	0.67	E	3.8	4	NW
20250621.09	0.63	E	3.9	5	SW
20250621.12	0.57	E	4.1	6	E

Wind condition in the Aktau

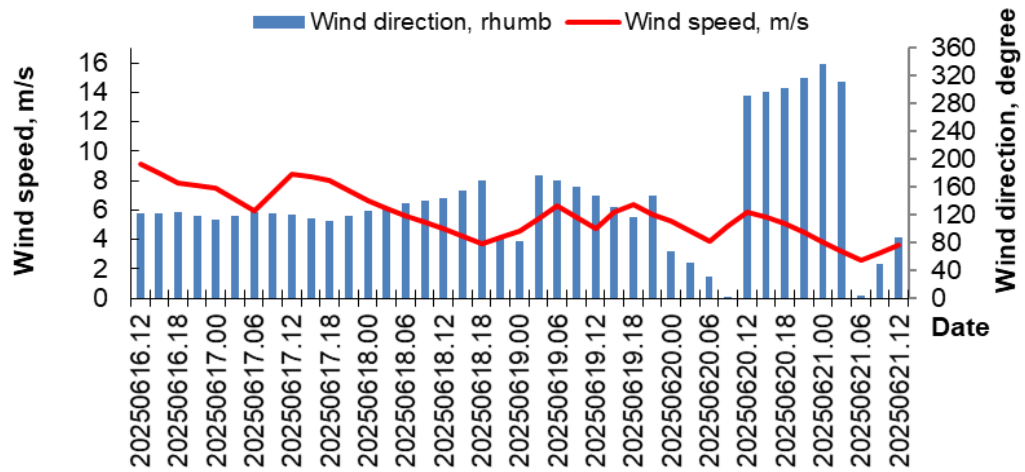


Wave condition in the Aktau

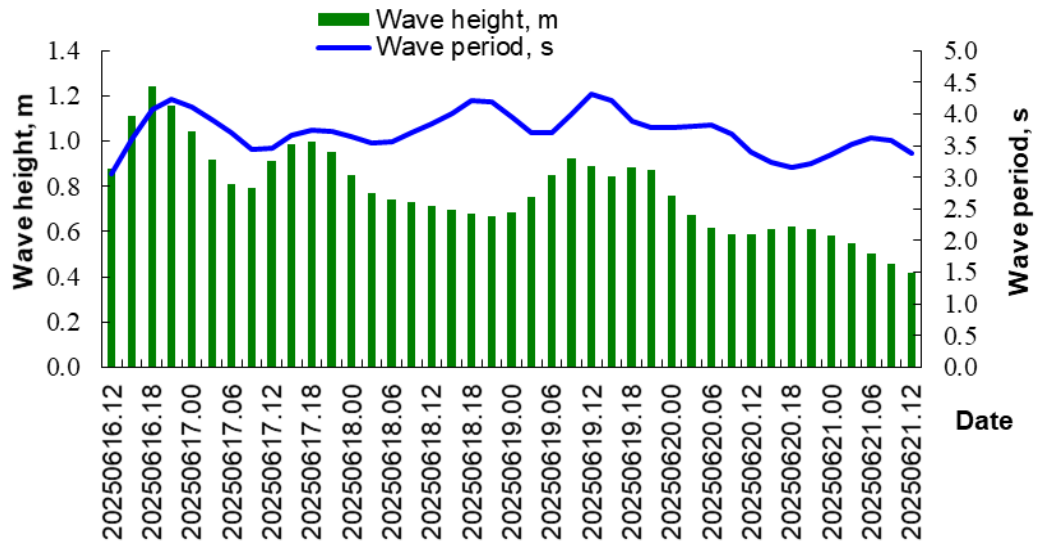


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250616.12	0.99	NW	3.2	10	SE
20250616.15	1.24	NW	3.7	9	SE
20250616.18	1.40	NW	4.2	7	SE
20250616.21	1.25	W	4.3	7	SE
20250617.00	1.01	W	4.1	7	E
20250617.03	0.85	W	3.8	7	E
20250617.06	0.76	W	3.5	6	E
20250617.09	0.79	W	3.3	8	SE
20250617.12	0.94	W	3.4	9	SE
20250617.15	1.01	W	3.7	9	SE
20250617.18	0.99	W	3.7	8	SE
20250617.21	0.88	W	3.6	7	SE
20250618.00	0.76	NW	3.6	5	SE
20250618.03	0.74	NW	3.7	6	SE
20250618.06	0.80	NW	3.8	6	SE
20250618.09	0.81	NW	3.9	6	SE
20250618.12	0.79	NW	4.0	5	SE
20250618.15	0.76	NW	4.1	5	S
20250618.18	0.73	NW	4.2	4	E
20250618.21	0.71	NW	4.1	5	E
20250619.00	0.72	NW	3.8	5	E
20250619.03	0.87	N	3.5	10	S
20250619.06	1.17	N	3.7	14	S
20250619.09	1.28	N	4.0	10	S
20250619.12	1.05	N	4.1	5	S
20250619.15	0.88	NW	4.3	5	E
20250619.18	0.82	NW	4.2	5	NE
20250619.21	0.80	NW	3.9	6	NE
20250620.00	0.79	N	3.6	6	E
20250620.03	0.74	N	3.5	5	NE
20250620.06	0.68	N	3.6	4	NE
20250620.09	0.64	N	3.6	5	N
20250620.12	0.63	N	3.5	5	W
20250620.15	0.64	N	3.4	5	NW
20250620.18	0.64	N	3.3	5	NW
20250620.21	0.63	NE	3.3	4	NW
20250621.00	0.60	NE	3.5	4	NW
20250621.03	0.58	NE	3.6	4	NW
20250621.06	0.55	NE	3.7	4	NW
20250621.09	0.51	NE	3.6	3	N
20250621.12	0.46	NE	3.5	3	NE

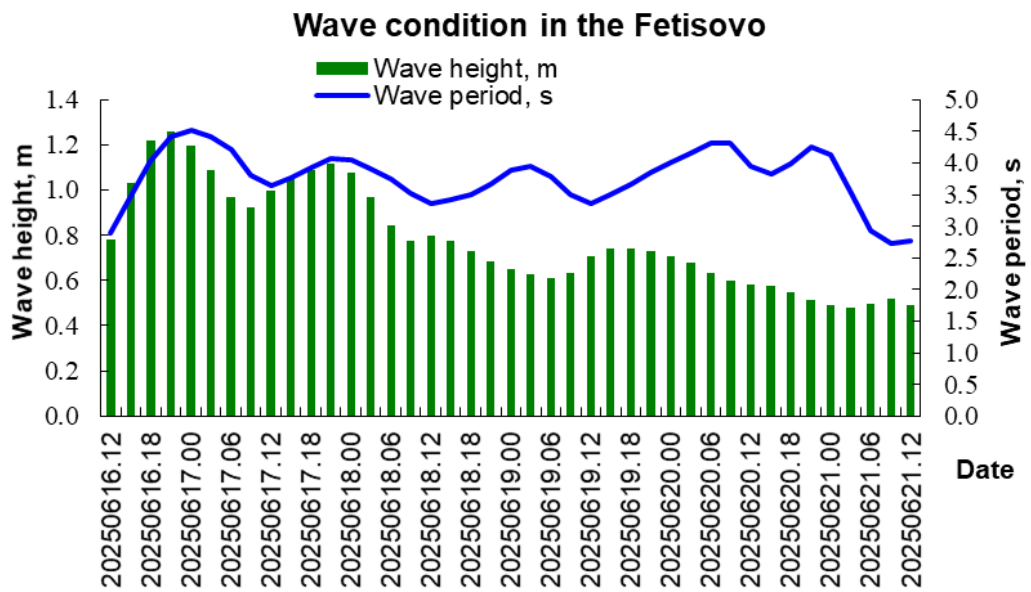
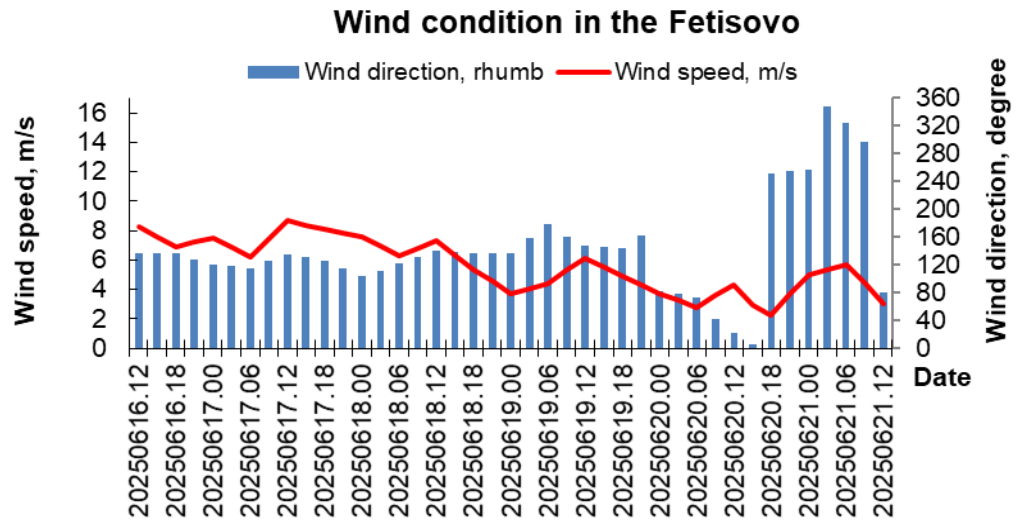
Wind condition in the Peschanyi



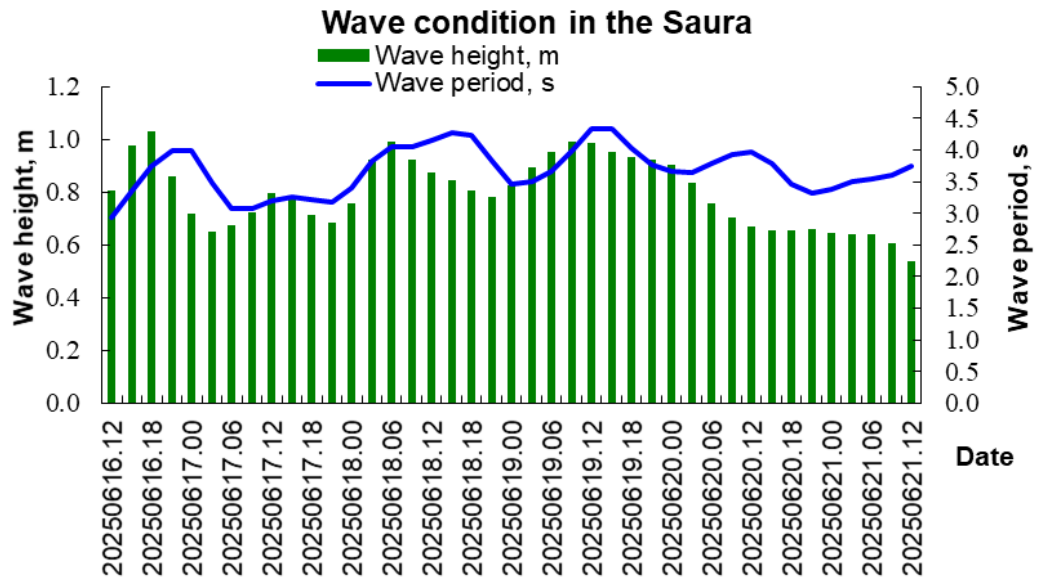
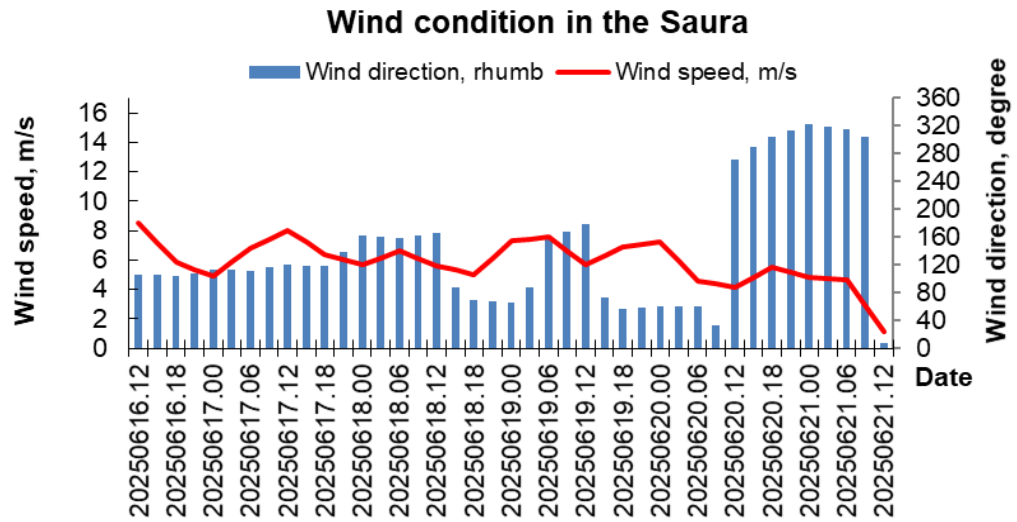
Wave condition in the Peschanyi



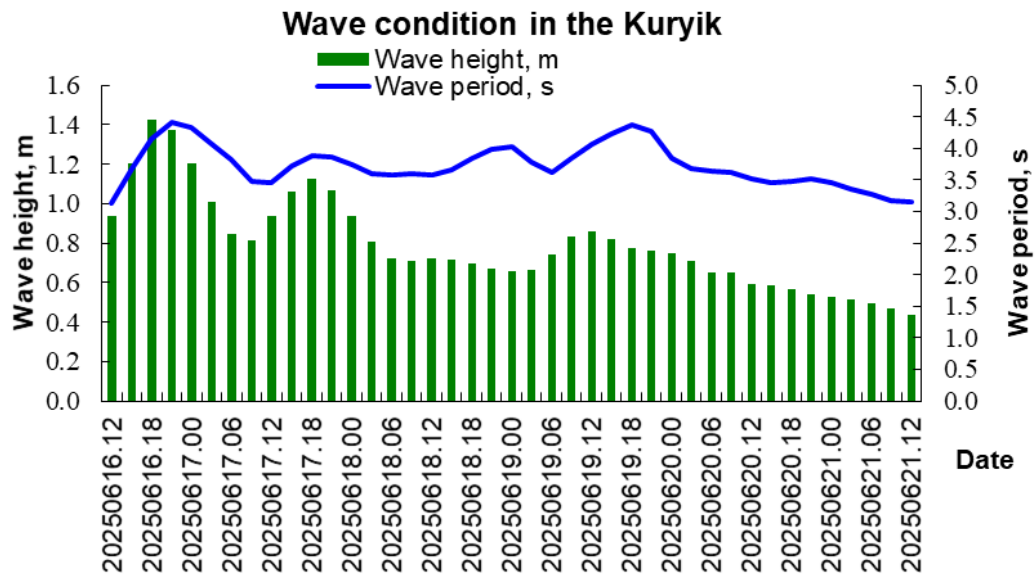
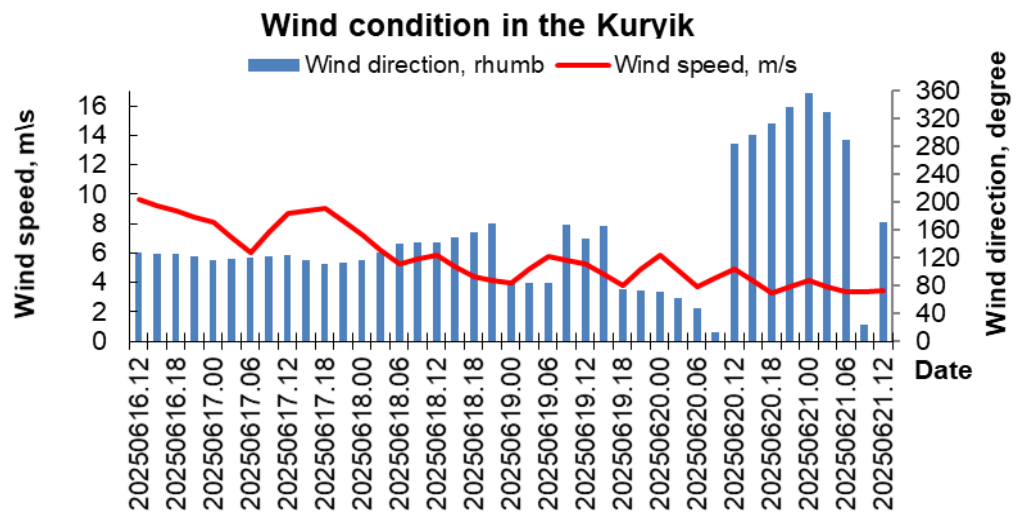
Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250616.12	0.88	NW	3.0	9	SE
20250616.15	1.11	NW	3.6	9	SE
20250616.18	1.24	NW	4.1	8	SE
20250616.21	1.15	W	4.2	8	SE
20250617.00	1.04	W	4.1	8	SE
20250617.03	0.92	W	3.9	7	SE
20250617.06	0.81	W	3.7	6	SE
20250617.09	0.79	W	3.4	7	SE
20250617.12	0.91	W	3.5	8	SE
20250617.15	0.99	W	3.7	8	SE
20250617.18	1.00	W	3.7	8	E
20250617.21	0.95	W	3.7	7	SE
20250618.00	0.85	W	3.6	7	SE
20250618.03	0.77	NW	3.5	6	SE
20250618.06	0.74	NW	3.6	6	SE
20250618.09	0.73	NW	3.7	5	SE
20250618.12	0.71	NW	3.8	5	SE
20250618.15	0.69	NW	4.0	4	SE
20250618.18	0.68	NW	4.2	4	S
20250618.21	0.67	NW	4.2	4	E
20250619.00	0.69	NW	3.9	5	E
20250619.03	0.76	N	3.7	5	S
20250619.06	0.85	N	3.7	6	S
20250619.09	0.92	NW	4.0	6	S
20250619.12	0.89	NW	4.3	5	SE
20250619.15	0.84	NW	4.2	6	SE
20250619.18	0.89	NW	3.9	6	SE
20250619.21	0.87	NW	3.8	6	SE
20250620.00	0.76	NW	3.8	5	NE
20250620.03	0.67	NW	3.8	5	NE
20250620.06	0.62	NW	3.8	4	NE
20250620.09	0.59	NW	3.7	5	N
20250620.12	0.59	N	3.4	6	W
20250620.15	0.61	N	3.2	5	NW
20250620.18	0.62	N	3.2	5	NW
20250620.21	0.61	NE	3.2	4	NW
20250621.00	0.58	NE	3.4	4	NW
20250621.03	0.55	NE	3.5	3	NW
20250621.06	0.51	NE	3.6	3	N
20250621.09	0.46	NE	3.6	3	NE
20250621.12	0.42	NE	3.4	4	E



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250616.12	0.78	NW	2.9	8	SE
20250616.15	1.03	NW	3.5	8	SE
20250616.18	1.22	NW	4.0	7	SE
20250616.21	1.26	NW	4.4	7	SE
20250617.00	1.20	NW	4.5	8	SE
20250617.03	1.09	NW	4.4	7	SE
20250617.06	0.97	NW	4.2	6	SE
20250617.09	0.92	NW	3.8	7	SE
20250617.12	1.00	NW	3.6	9	SE
20250617.15	1.05	NW	3.8	8	SE
20250617.18	1.09	NW	3.9	8	SE
20250617.21	1.11	NW	4.1	8	SE
20250618.00	1.07	NW	4.0	8	E
20250618.03	0.97	NW	3.9	7	E
20250618.06	0.84	NW	3.7	6	SE
20250618.09	0.78	NW	3.5	7	SE
20250618.12	0.80	NW	3.4	7	SE
20250618.15	0.78	NW	3.4	6	SE
20250618.18	0.73	NW	3.5	5	SE
20250618.21	0.68	NW	3.7	5	SE
20250619.00	0.65	NW	3.9	4	SE
20250619.03	0.62	NW	4.0	4	S
20250619.06	0.61	NW	3.8	4	S
20250619.09	0.63	NW	3.5	5	S
20250619.12	0.71	NW	3.4	6	SE
20250619.15	0.74	NW	3.5	6	SE
20250619.18	0.74	NW	3.7	5	SE
20250619.21	0.73	NW	3.8	4	S
20250620.00	0.71	NW	4.0	4	E
20250620.03	0.68	NW	4.2	3	E
20250620.06	0.64	NW	4.3	3	E
20250620.09	0.60	NW	4.3	4	NE
20250620.12	0.58	NW	4.0	4	NE
20250620.15	0.57	NW	3.8	3	N
20250620.18	0.55	NW	4.0	2	W
20250620.21	0.52	NW	4.2	4	W
20250621.00	0.49	NW	4.1	5	W
20250621.03	0.48	NW	3.5	5	N
20250621.06	0.50	NW	2.9	6	NW
20250621.09	0.52	NE	2.7	5	NW
20250621.12	0.49	E	2.8	3	E



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250616.12	0.81	W	2.9	9	E
20250616.15	0.97	W	3.4	7	E
20250616.18	1.03	W	3.8	6	E
20250616.21	0.86	W	4.0	5	E
20250617.00	0.72	W	4.0	5	SE
20250617.03	0.65	W	3.5	6	SE
20250617.06	0.67	W	3.1	7	E
20250617.09	0.72	W	3.1	7	SE
20250617.12	0.80	W	3.2	8	SE
20250617.15	0.78	W	3.3	7	SE
20250617.18	0.72	W	3.2	6	SE
20250617.21	0.69	NW	3.2	6	SE
20250618.00	0.76	NW	3.4	6	S
20250618.03	0.92	NW	3.8	6	S
20250618.06	0.99	NW	4.0	7	S
20250618.09	0.93	NW	4.1	6	S
20250618.12	0.87	NW	4.2	6	S
20250618.15	0.85	NW	4.3	5	E
20250618.18	0.81	NW	4.2	5	E
20250618.21	0.78	N	3.8	6	E
20250619.00	0.83	N	3.5	7	NE
20250619.03	0.89	N	3.5	7	E
20250619.06	0.95	N	3.7	8	S
20250619.09	0.99	N	4.0	7	S
20250619.12	0.99	N	4.3	6	S
20250619.15	0.95	N	4.3	6	E
20250619.18	0.93	N	4.0	7	NE
20250619.21	0.92	N	3.8	7	NE
20250620.00	0.90	N	3.7	7	NE
20250620.03	0.83	N	3.6	6	NE
20250620.06	0.76	N	3.8	5	NE
20250620.09	0.70	N	3.9	4	NE
20250620.12	0.67	N	4.0	4	W
20250620.15	0.65	N	3.8	5	W
20250620.18	0.66	N	3.5	5	NW
20250620.21	0.66	NE	3.3	5	NW
20250621.00	0.65	NE	3.4	5	NW
20250621.03	0.64	E	3.5	5	NW
20250621.06	0.64	E	3.5	5	NW
20250621.09	0.60	E	3.6	3	NW
20250621.12	0.54	E	3.7	1	N



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250616.12	0.94	NW	3.1	10	SE
20250616.15	1.21	NW	3.7	9	SE
20250616.18	1.42	NW	4.2	9	SE
20250616.21	1.37	NW	4.4	8	SE
20250617.00	1.20	NW	4.3	8	SE
20250617.03	1.01	W	4.1	7	SE
20250617.06	0.85	W	3.8	6	SE
20250617.09	0.81	W	3.5	7	SE
20250617.12	0.94	NW	3.5	9	SE
20250617.15	1.06	NW	3.7	9	SE
20250617.18	1.12	W	3.9	9	E
20250617.21	1.07	W	3.9	8	SE
20250618.00	0.94	W	3.7	7	SE
20250618.03	0.81	NW	3.6	6	SE
20250618.06	0.72	NW	3.6	5	SE
20250618.09	0.71	NW	3.6	6	SE
20250618.12	0.72	NW	3.6	6	SE
20250618.15	0.71	NW	3.7	5	SE
20250618.18	0.69	NW	3.8	4	S
20250618.21	0.67	NW	4.0	4	S
20250619.00	0.66	NW	4.0	4	E
20250619.03	0.66	NW	3.8	5	E
20250619.06	0.74	N	3.6	6	E
20250619.09	0.83	NW	3.8	6	S
20250619.12	0.86	NW	4.1	5	SE
20250619.15	0.82	NW	4.2	5	S
20250619.18	0.78	NW	4.4	4	E
20250619.21	0.76	NW	4.3	5	E
20250620.00	0.75	NW	3.9	6	E
20250620.03	0.71	NW	3.7	5	NE
20250620.06	0.65	NW	3.6	4	NE
20250620.09	0.65	NW	3.6	4	N
20250620.12	0.59	N	3.5	5	W
20250620.15	0.58	N	3.5	4	NW
20250620.18	0.57	N	3.5	3	NW
20250620.21	0.54	N	3.5	4	NW
20250621.00	0.53	N	3.5	4	N
20250621.03	0.51	N	3.4	4	NW
20250621.06	0.49	NE	3.3	3	W
20250621.09	0.47	NE	3.2	3	NE
20250621.12	0.43	NE	3.2	3	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

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