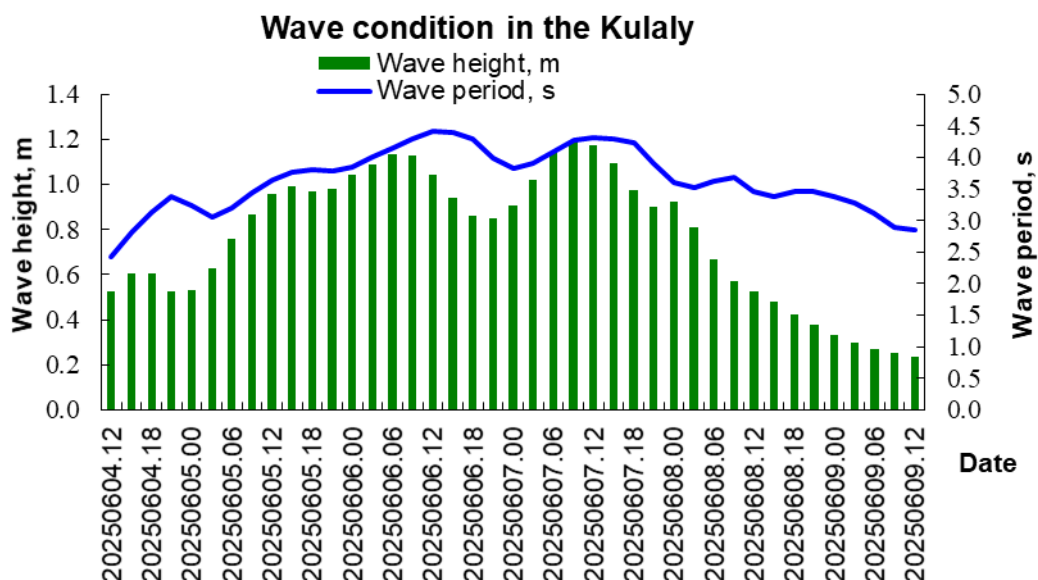
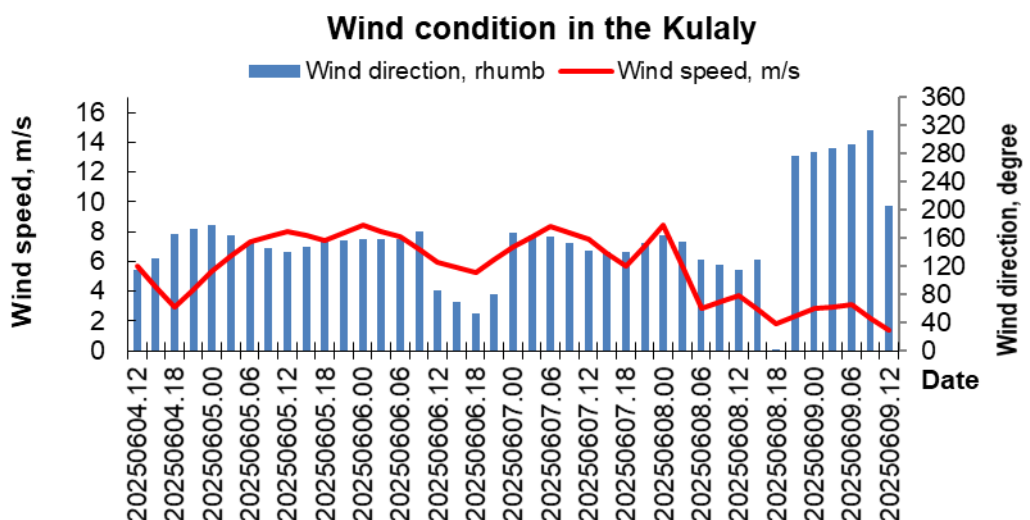




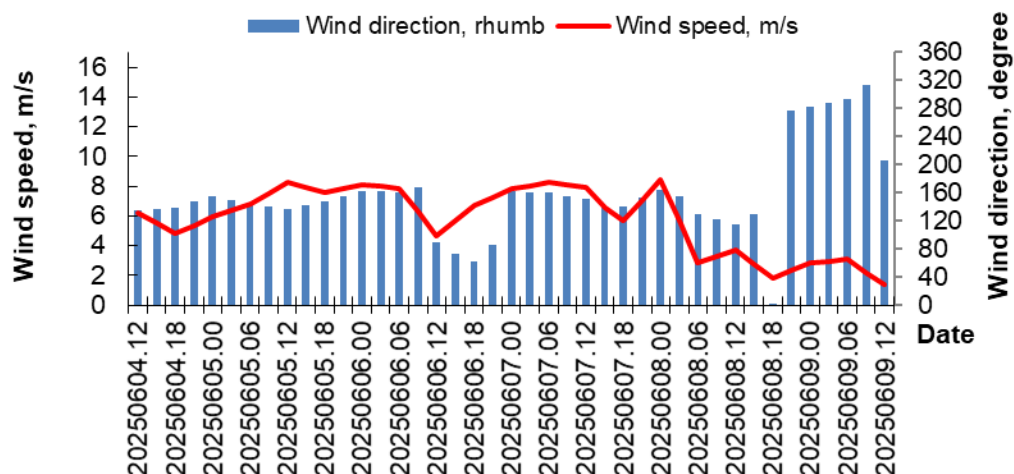
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 04 –09, 2025.**

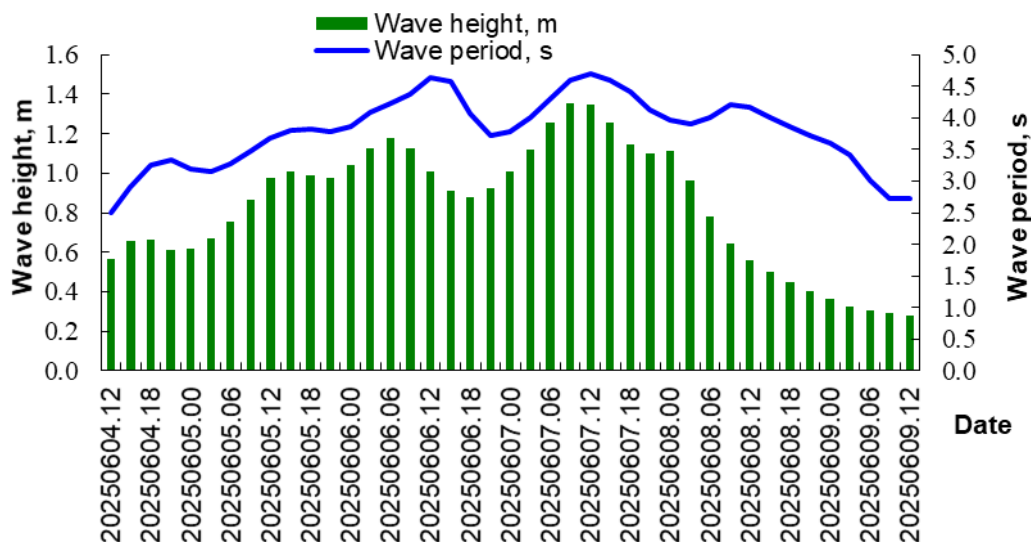


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250604.12	0.53	NW	2.4	6	SE
20250604.15	0.60	W	2.8	4	SE
20250604.18	0.60	W	3.1	3	S
20250604.21	0.52	W	3.4	4	S
20250605.00	0.53	W	3.2	5	S
20250605.03	0.63	NW	3.1	6	S
20250605.06	0.76	NW	3.2	7	SE
20250605.09	0.87	NW	3.4	8	SE
20250605.12	0.96	NW	3.6	8	SE
20250605.15	0.99	NW	3.8	8	SE
20250605.18	0.97	NW	3.8	7	SE
20250605.21	0.98	NW	3.8	8	SE
20250606.00	1.04	NW	3.8	8	S
20250606.03	1.09	NW	4.0	8	S
20250606.06	1.13	NW	4.2	8	S
20250606.09	1.13	NW	4.3	7	S
20250606.12	1.04	NW	4.4	6	E
20250606.15	0.94	NW	4.4	6	E
20250606.18	0.86	NW	4.3	5	NE
20250606.21	0.85	NW	4.0	6	E
20250607.00	0.91	N	3.8	7	S
20250607.03	1.02	N	3.9	8	S
20250607.06	1.14	N	4.1	8	S
20250607.09	1.19	N	4.3	8	SE
20250607.12	1.17	N	4.3	7	SE
20250607.15	1.10	N	4.3	7	SE
20250607.18	0.98	N	4.2	6	SE
20250607.21	0.90	N	3.9	7	SE
20250608.00	0.92	N	3.6	8	S
20250608.03	0.81	N	3.5	6	SE
20250608.06	0.67	N	3.6	3	SE
20250608.09	0.57	N	3.7	3	SE
20250608.12	0.52	N	3.5	4	SE
20250608.15	0.48	N	3.4	3	SE
20250608.18	0.42	N	3.5	2	N
20250608.21	0.38	N	3.5	2	W
20250609.00	0.33	NW	3.4	3	W
20250609.03	0.30	NW	3.3	3	W
20250609.06	0.27	NW	3.1	3	NW
20250609.09	0.25	NW	2.9	2	NW
20250609.12	0.23	N	2.9	1	SW

Wind condition in the Fort-Shevchenko

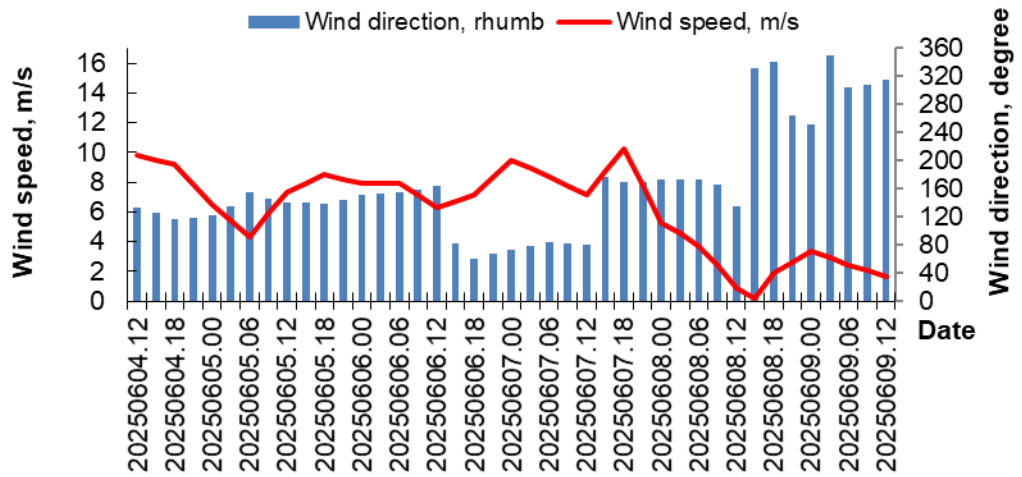


Wave condition in the Fort-Shevchenko

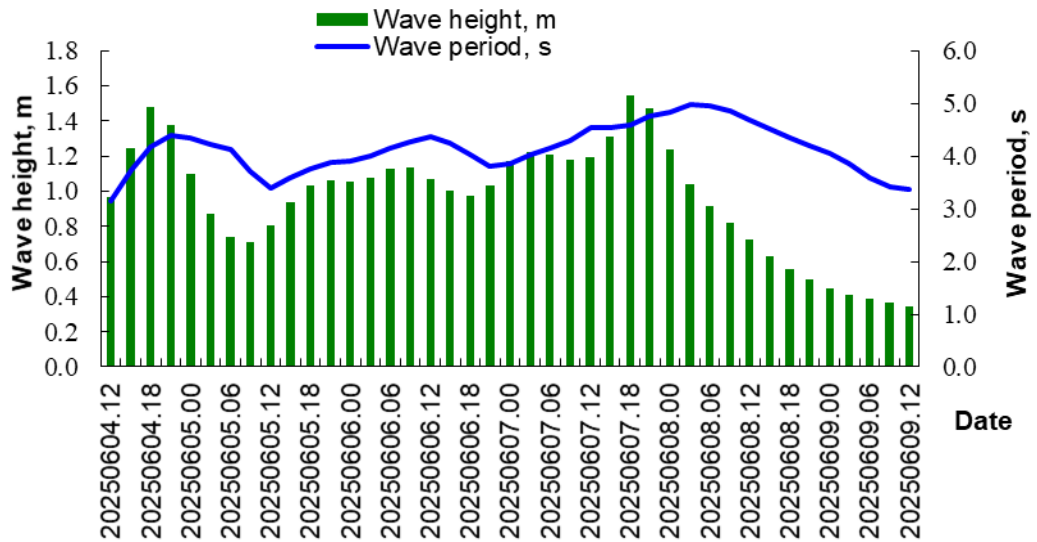


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250604.12	0.56	NW	2.5	6	SE
20250604.15	0.66	NW	2.9	6	SE
20250604.18	0.67	NW	3.2	5	SE
20250604.21	0.61	NW	3.3	5	SE
20250605.00	0.62	W	3.2	6	SE
20250605.03	0.67	NW	3.1	6	SE
20250605.06	0.75	NW	3.3	7	SE
20250605.09	0.87	NW	3.5	8	SE
20250605.12	0.98	NW	3.7	8	SE
20250605.15	1.01	NW	3.8	8	SE
20250605.18	0.99	NW	3.8	8	SE
20250605.21	0.98	NW	3.8	8	SE
20250606.00	1.04	NW	3.9	8	S
20250606.03	1.13	N	4.1	8	S
20250606.06	1.18	N	4.2	8	S
20250606.09	1.12	N	4.4	6	S
20250606.12	1.01	NW	4.6	5	E
20250606.15	0.91	NW	4.6	6	E
20250606.18	0.88	NW	4.1	7	NE
20250606.21	0.92	N	3.7	7	E
20250607.00	1.01	N	3.8	8	S
20250607.03	1.12	N	4.0	8	S
20250607.06	1.25	N	4.3	8	S
20250607.09	1.35	N	4.6	8	SE
20250607.12	1.35	N	4.7	8	SE
20250607.15	1.26	N	4.6	7	SE
20250607.18	1.15	N	4.4	6	SE
20250607.21	1.10	N	4.1	7	SE
20250608.00	1.12	N	4.0	8	S
20250608.03	0.96	N	3.9	6	SE
20250608.06	0.78	N	4.0	3	SE
20250608.09	0.65	N	4.2	3	SE
20250608.12	0.56	N	4.2	4	SE
20250608.15	0.50	N	4.0	3	SE
20250608.18	0.45	N	3.9	2	N
20250608.21	0.40	N	3.7	2	W
20250609.00	0.36	N	3.6	3	W
20250609.03	0.33	N	3.4	3	W
20250609.06	0.31	N	3.0	3	NW
20250609.09	0.29	N	2.7	2	NW
20250609.12	0.28	N	2.7	1	SW

Wind condition in the Aktau

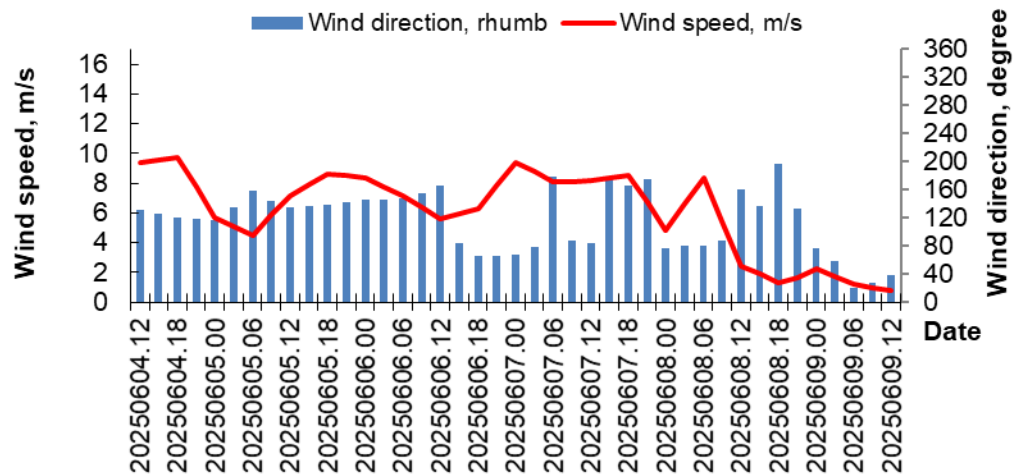


Wave condition in the Aktau

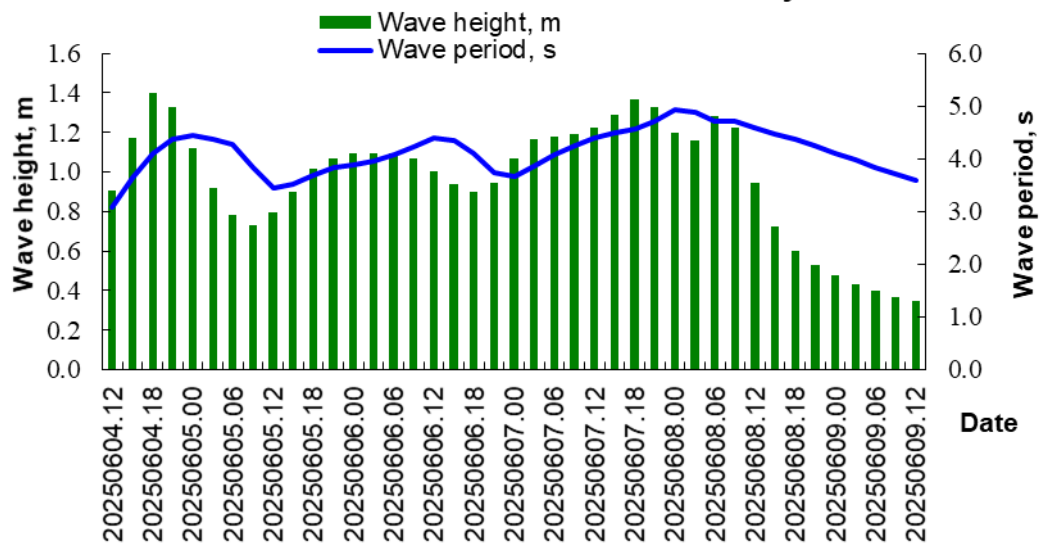


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250604.12	0.96	NW	3.2	10	SE
20250604.15	1.24	NW	3.7	9	SE
20250604.18	1.48	NW	4.2	9	SE
20250604.21	1.37	NW	4.4	8	SE
20250605.00	1.09	NW	4.3	6	SE
20250605.03	0.87	W	4.2	5	SE
20250605.06	0.74	W	4.1	4	SE
20250605.09	0.71	W	3.7	6	SE
20250605.12	0.81	NW	3.4	7	SE
20250605.15	0.94	NW	3.6	8	SE
20250605.18	1.04	NW	3.8	9	SE
20250605.21	1.06	NW	3.9	8	SE
20250606.00	1.06	NW	3.9	8	SE
20250606.03	1.08	NW	4.0	8	SE
20250606.06	1.13	NW	4.2	8	SE
20250606.09	1.14	NW	4.3	7	S
20250606.12	1.07	NW	4.4	6	S
20250606.15	1.00	NW	4.3	7	E
20250606.18	0.97	N	4.0	7	NE
20250606.21	1.04	N	3.8	8	E
20250607.00	1.17	N	3.9	9	E
20250607.03	1.22	N	4.0	9	E
20250607.06	1.21	N	4.1	8	E
20250607.09	1.18	N	4.3	8	E
20250607.12	1.19	N	4.5	7	E
20250607.15	1.31	N	4.5	9	S
20250607.18	1.55	N	4.6	10	S
20250607.21	1.47	N	4.8	8	S
20250608.00	1.24	N	4.8	5	S
20250608.03	1.04	N	5.0	5	S
20250608.06	0.92	N	4.9	4	S
20250608.09	0.82	N	4.9	2	S
20250608.12	0.73	N	4.7	1	SE
20250608.15	0.63	N	4.5	0	NW
20250608.18	0.55	N	4.3	2	N
20250608.21	0.50	N	4.2	3	W
20250609.00	0.45	N	4.0	3	W
20250609.03	0.41	N	3.9	3	N
20250609.06	0.39	N	3.6	2	NW
20250609.09	0.36	N	3.4	2	NW
20250609.12	0.34	N	3.4	2	NW

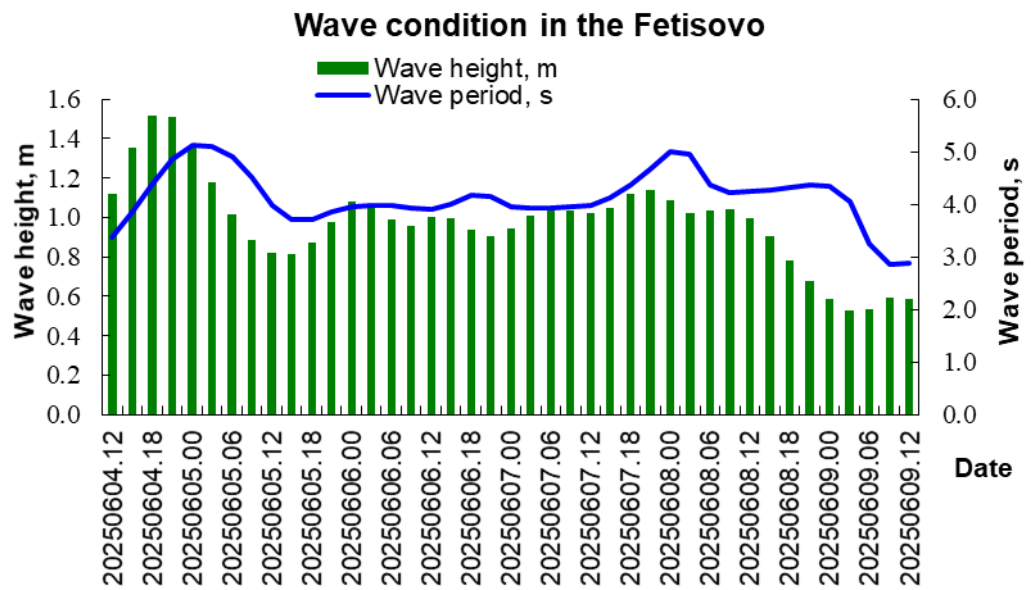
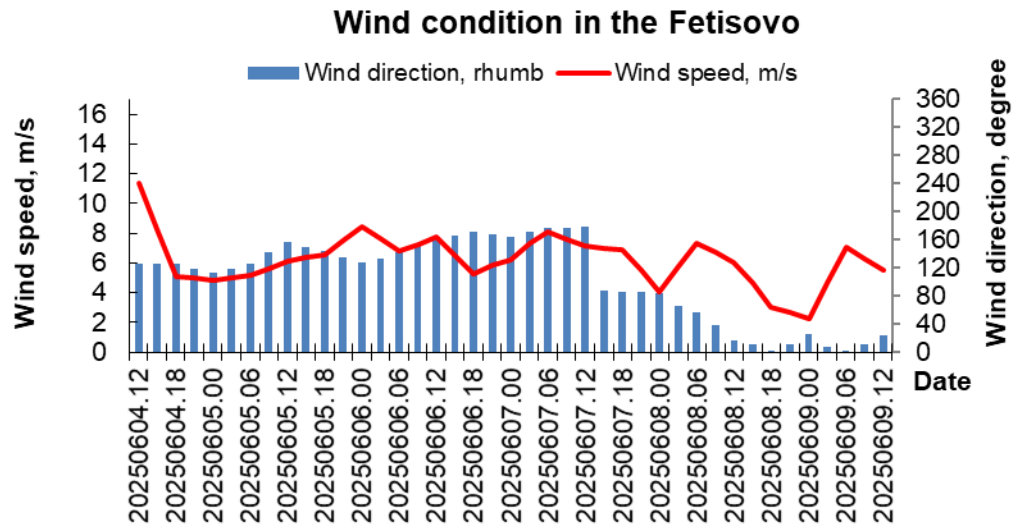
Wind condition in the Peschanyi



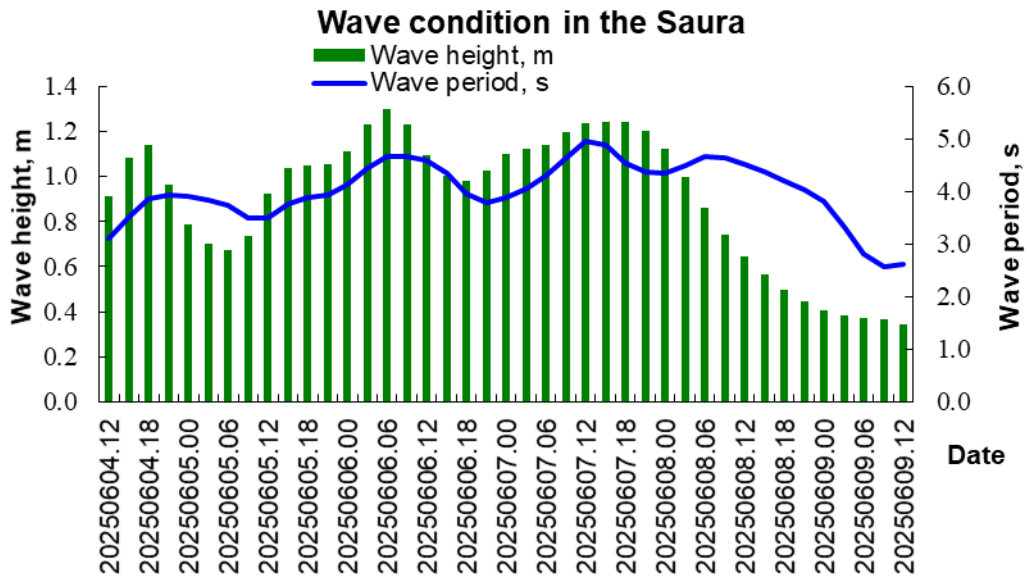
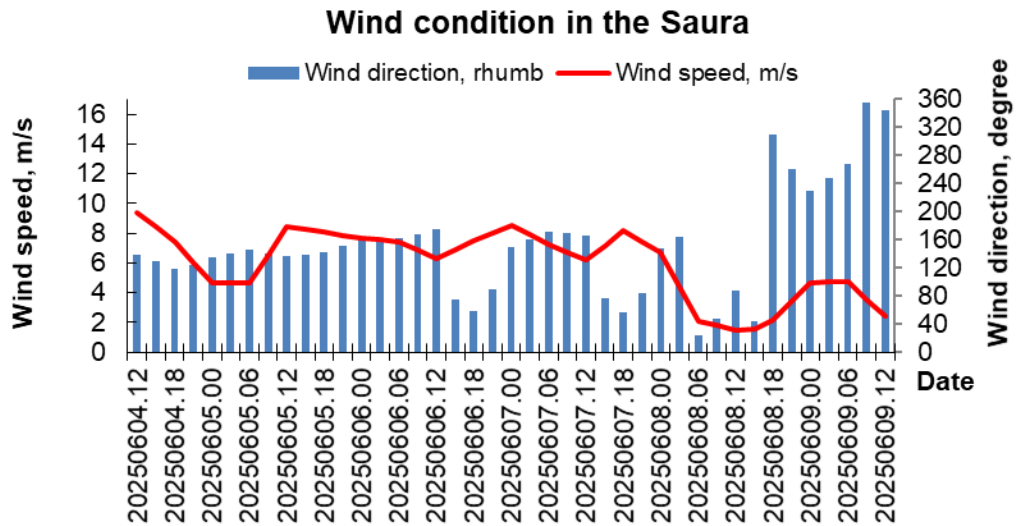
Wave condition in the Peschanyi



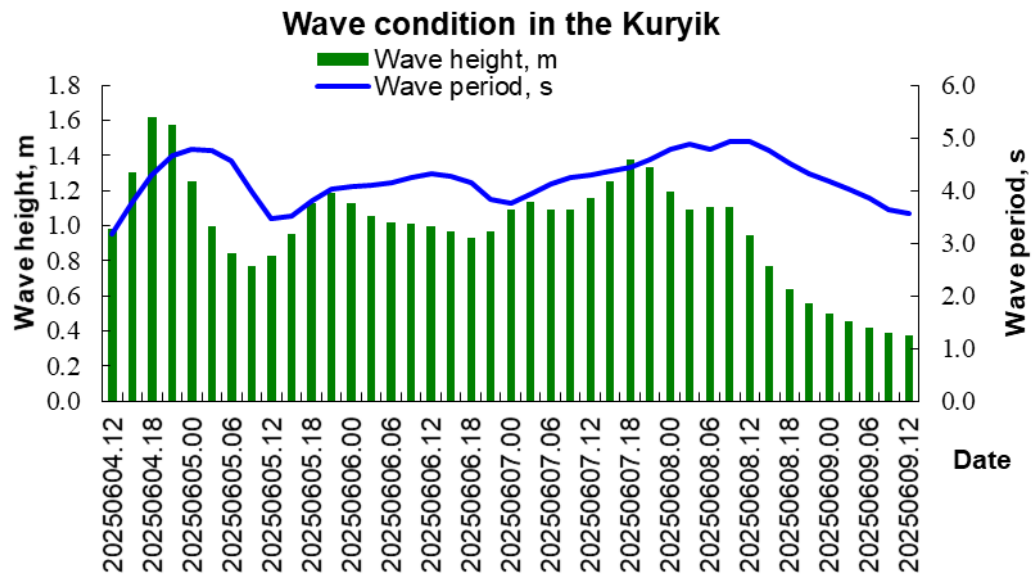
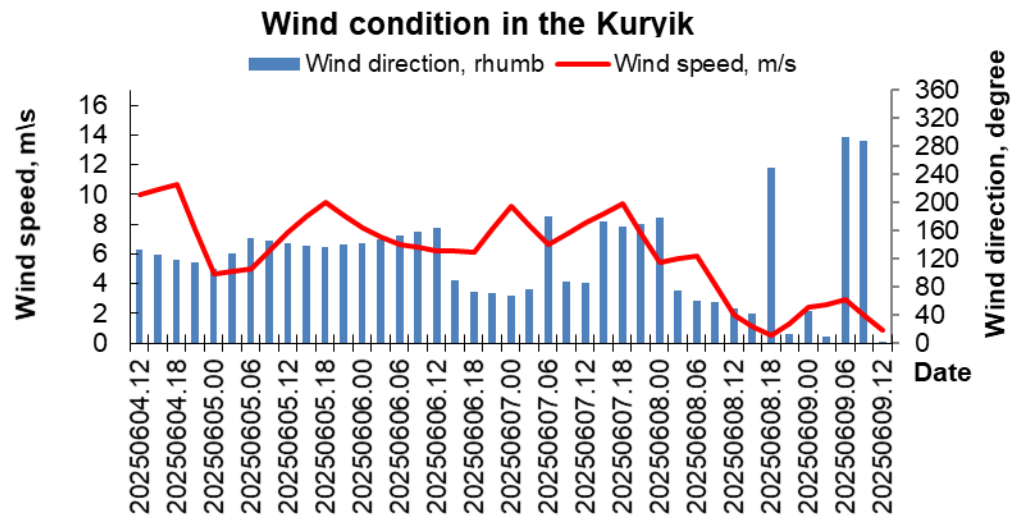
Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250604.12	0.91	NW	3.1	9	SE
20250604.15	1.17	NW	3.6	10	SE
20250604.18	1.40	NW	4.1	10	SE
20250604.21	1.33	NW	4.4	8	SE
20250605.00	1.12	NW	4.4	6	SE
20250605.03	0.92	W	4.4	5	SE
20250605.06	0.78	W	4.3	4	S
20250605.09	0.73	W	3.8	6	SE
20250605.12	0.79	NW	3.5	7	SE
20250605.15	0.90	NW	3.5	8	SE
20250605.18	1.01	NW	3.7	9	SE
20250605.21	1.07	NW	3.8	8	SE
20250606.00	1.09	NW	3.9	8	SE
20250606.03	1.09	NW	4.0	8	SE
20250606.06	1.09	NW	4.1	7	SE
20250606.09	1.07	NW	4.2	6	SE
20250606.12	1.00	NW	4.4	6	S
20250606.15	0.94	NW	4.4	6	E
20250606.18	0.90	NW	4.1	6	NE
20250606.21	0.94	N	3.7	8	NE
20250607.00	1.07	N	3.7	9	NE
20250607.03	1.16	N	3.9	9	E
20250607.06	1.18	N	4.1	8	S
20250607.09	1.19	N	4.2	8	E
20250607.12	1.23	N	4.4	8	E
20250607.15	1.29	N	4.5	8	S
20250607.18	1.37	N	4.6	9	S
20250607.21	1.33	NW	4.7	7	S
20250608.00	1.20	NW	4.9	5	E
20250608.03	1.16	N	4.9	7	E
20250608.06	1.28	N	4.7	8	E
20250608.09	1.23	N	4.7	5	E
20250608.12	0.95	N	4.6	2	S
20250608.15	0.72	N	4.5	2	SE
20250608.18	0.60	N	4.4	1	S
20250608.21	0.53	N	4.2	2	SE
20250609.00	0.47	N	4.1	2	E
20250609.03	0.43	N	4.0	2	NE
20250609.06	0.40	N	3.8	1	N
20250609.09	0.37	N	3.7	1	NE
20250609.12	0.35	N	3.6	1	NE



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250604.12	1.12	NW	3.4	11	SE
20250604.15	1.35	NW	3.9	8	SE
20250604.18	1.52	NW	4.4	5	SE
20250604.21	1.51	NW	4.9	5	SE
20250605.00	1.36	NW	5.1	5	E
20250605.03	1.18	NW	5.1	5	SE
20250605.06	1.01	NW	4.9	5	SE
20250605.09	0.89	NW	4.5	6	SE
20250605.12	0.82	NW	4.0	6	SE
20250605.15	0.82	NW	3.7	6	SE
20250605.18	0.87	NW	3.7	7	SE
20250605.21	0.98	NW	3.9	8	SE
20250606.00	1.08	NW	4.0	8	SE
20250606.03	1.06	NW	4.0	8	SE
20250606.06	0.99	NW	4.0	7	SE
20250606.09	0.96	NW	3.9	7	SE
20250606.12	1.00	NW	3.9	8	S
20250606.15	0.99	NW	4.0	6	S
20250606.18	0.94	NW	4.2	5	S
20250606.21	0.91	NW	4.1	6	S
20250607.00	0.95	NW	3.9	6	S
20250607.03	1.01	NW	3.9	7	S
20250607.06	1.05	N	3.9	8	S
20250607.09	1.04	N	4.0	8	S
20250607.12	1.02	N	4.0	7	S
20250607.15	1.05	N	4.1	7	E
20250607.18	1.12	N	4.4	7	E
20250607.21	1.14	N	4.7	5	E
20250608.00	1.09	N	5.0	4	E
20250608.03	1.02	N	4.9	6	NE
20250608.06	1.03	N	4.4	7	NE
20250608.09	1.04	N	4.2	7	NE
20250608.12	1.00	N	4.2	6	N
20250608.15	0.90	N	4.3	5	N
20250608.18	0.79	N	4.3	3	N
20250608.21	0.68	N	4.4	3	N
20250609.00	0.59	N	4.4	2	NE
20250609.03	0.53	N	4.1	5	N
20250609.06	0.54	N	3.3	7	N
20250609.09	0.60	NE	2.9	6	N
20250609.12	0.59	NE	2.9	6	NE



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250604.12	0.91	NW	3.1	9	SE
20250604.15	1.08	NW	3.5	8	SE
20250604.18	1.14	NW	3.9	7	SE
20250604.21	0.96	NW	3.9	6	SE
20250605.00	0.79	W	3.9	5	SE
20250605.03	0.70	W	3.8	5	SE
20250605.06	0.67	W	3.7	5	SE
20250605.09	0.73	NW	3.5	7	SE
20250605.12	0.92	NW	3.5	8	SE
20250605.15	1.04	NW	3.8	8	SE
20250605.18	1.05	NW	3.9	8	SE
20250605.21	1.05	NW	3.9	8	SE
20250606.00	1.11	NW	4.1	8	S
20250606.03	1.23	N	4.5	8	S
20250606.06	1.30	N	4.7	7	S
20250606.09	1.23	N	4.7	7	S
20250606.12	1.10	N	4.6	6	S
20250606.15	1.00	N	4.3	7	E
20250606.18	0.98	N	4.0	7	NE
20250606.21	1.02	N	3.8	8	E
20250607.00	1.10	N	3.9	9	SE
20250607.03	1.12	N	4.1	8	S
20250607.06	1.14	N	4.3	7	S
20250607.09	1.20	N	4.6	7	S
20250607.12	1.24	N	4.9	6	S
20250607.15	1.24	N	4.9	7	E
20250607.18	1.24	N	4.6	8	NE
20250607.21	1.20	N	4.4	7	E
20250608.00	1.12	N	4.3	7	SE
20250608.03	1.00	N	4.5	4	S
20250608.06	0.86	N	4.7	2	NE
20250608.09	0.74	N	4.6	2	NE
20250608.12	0.64	N	4.5	1	E
20250608.15	0.56	N	4.4	2	NE
20250608.18	0.50	N	4.2	2	NW
20250608.21	0.45	N	4.0	3	W
20250609.00	0.41	N	3.8	5	SW
20250609.03	0.38	N	3.3	5	W
20250609.06	0.37	N	2.8	5	W
20250609.09	0.36	N	2.6	4	N
20250609.12	0.34	E	2.6	2	N



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250604.12	0.98	NW	3.2	10	SE
20250604.15	1.30	NW	3.8	10	SE
20250604.18	1.62	NW	4.3	11	SE
20250604.21	1.57	NW	4.6	8	SE
20250605.00	1.26	NW	4.8	5	E
20250605.03	1.00	NW	4.8	5	SE
20250605.06	0.84	W	4.6	5	SE
20250605.09	0.77	W	4.0	6	SE
20250605.12	0.82	NW	3.5	8	SE
20250605.15	0.95	NW	3.5	8	SE
20250605.18	1.13	NW	3.8	9	SE
20250605.21	1.19	NW	4.0	9	SE
20250606.00	1.13	NW	4.1	8	SE
20250606.03	1.05	NW	4.1	7	SE
20250606.06	1.02	NW	4.2	7	SE
20250606.09	1.01	NW	4.3	6	S
20250606.12	1.00	NW	4.3	6	S
20250606.15	0.97	NW	4.3	6	E
20250606.18	0.93	NW	4.1	6	E
20250606.21	0.96	N	3.8	8	E
20250607.00	1.09	N	3.8	9	E
20250607.03	1.14	N	3.9	8	E
20250607.06	1.09	N	4.1	7	S
20250607.09	1.09	N	4.2	7	E
20250607.12	1.16	N	4.3	8	E
20250607.15	1.25	N	4.4	9	S
20250607.18	1.38	N	4.4	9	S
20250607.21	1.33	N	4.6	7	S
20250608.00	1.19	N	4.8	5	S
20250608.03	1.09	N	4.9	6	E
20250608.06	1.11	N	4.8	6	NE
20250608.09	1.11	N	4.9	4	NE
20250608.12	0.94	N	4.9	2	NE
20250608.15	0.77	N	4.8	1	NE
20250608.18	0.64	N	4.5	1	W
20250608.21	0.56	N	4.3	1	N
20250609.00	0.50	N	4.2	2	NE
20250609.03	0.45	N	4.0	3	N
20250609.06	0.42	N	3.8	3	NW
20250609.09	0.39	N	3.6	2	W
20250609.12	0.37	N	3.6	1	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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