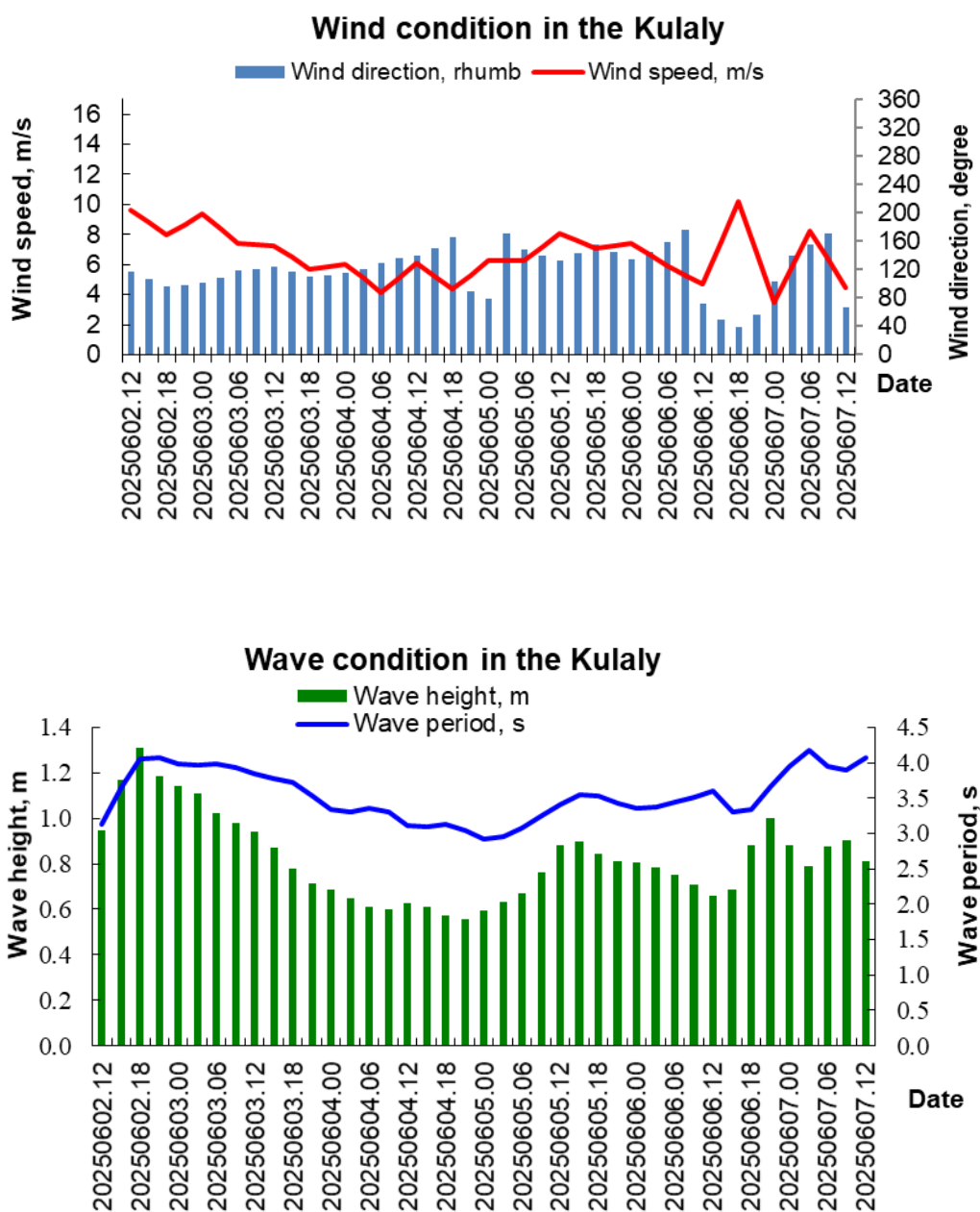




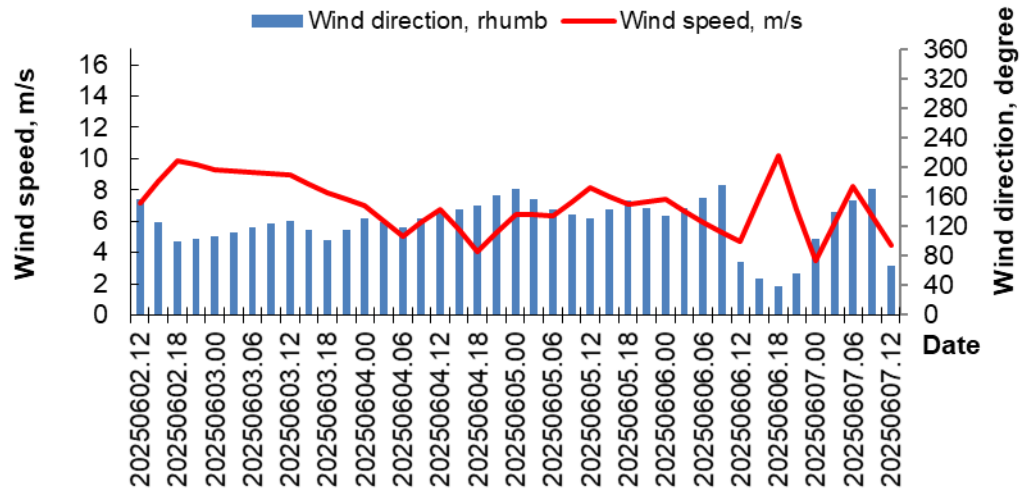
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 02 –07, 2025.**

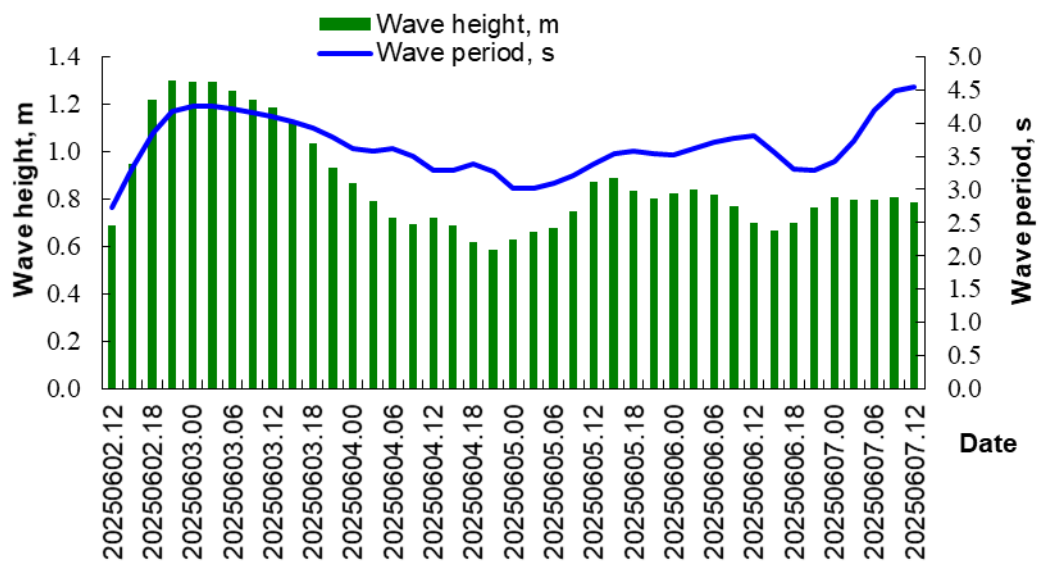


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250602.12	0.95	NW	3.1	10	SE
20250602.15	1.17	NW	3.6	9	E
20250602.18	1.31	W	4.1	8	E
20250602.21	1.19	W	4.1	9	E
20250603.00	1.14	W	4.0	9	E
20250603.03	1.11	W	4.0	8	E
20250603.06	1.02	NW	4.0	7	SE
20250603.09	0.98	NW	3.9	7	SE
20250603.12	0.94	NW	3.9	7	SE
20250603.15	0.87	NW	3.8	6	SE
20250603.18	0.78	NW	3.7	6	E
20250603.21	0.71	NW	3.5	6	E
20250604.00	0.69	NW	3.3	6	SE
20250604.03	0.65	NW	3.3	5	SE
20250604.06	0.61	NW	3.4	4	SE
20250604.09	0.60	NW	3.3	5	SE
20250604.12	0.62	NW	3.1	6	SE
20250604.15	0.61	NW	3.1	5	SE
20250604.18	0.57	N	3.1	4	S
20250604.21	0.56	N	3.0	5	E
20250605.00	0.59	N	2.9	6	E
20250605.03	0.63	N	3.0	6	S
20250605.06	0.67	N	3.1	6	SE
20250605.09	0.76	N	3.3	7	SE
20250605.12	0.88	NW	3.4	8	SE
20250605.15	0.90	NW	3.5	8	SE
20250605.18	0.84	NW	3.5	7	SE
20250605.21	0.81	NW	3.4	7	SE
20250606.00	0.81	NW	3.4	7	SE
20250606.03	0.79	NW	3.4	7	SE
20250606.06	0.75	NW	3.5	6	S
20250606.09	0.71	N	3.5	5	S
20250606.12	0.66	N	3.6	5	E
20250606.15	0.69	N	3.3	7	NE
20250606.18	0.88	N	3.3	10	NE
20250606.21	1.00	NE	3.7	7	NE
20250607.00	0.88	NE	4.0	3	E
20250607.03	0.79	N	4.2	6	SE
20250607.06	0.88	NW	3.9	8	SE
20250607.09	0.90	NW	3.9	6	S
20250607.12	0.81	NW	4.1	4	NE

Wind condition in the Fort-Shevchenko

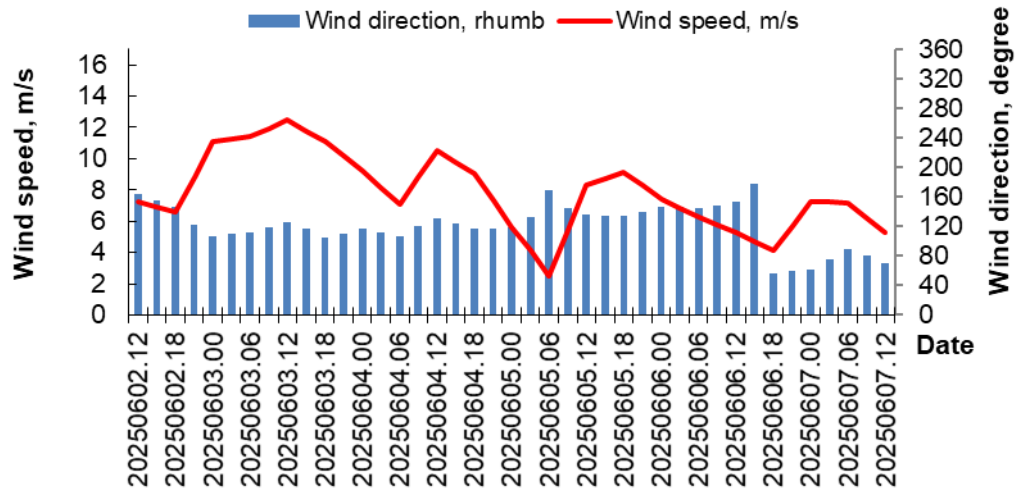


Wave condition in the Fort-Shevchenko

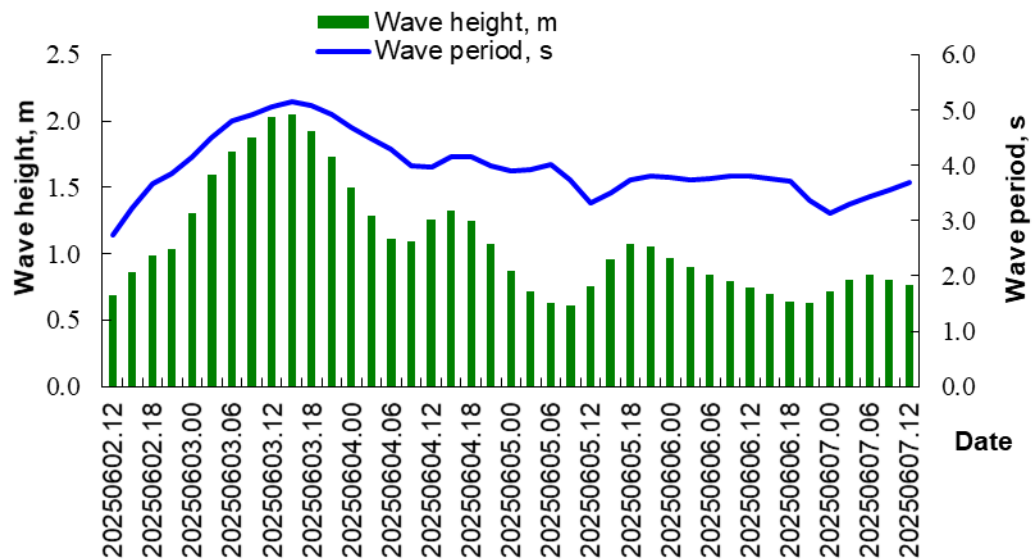


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250602.12	0.69	NW	2.7	7	SE
20250602.15	0.95	NW	3.3	9	SE
20250602.18	1.22	NW	3.8	10	E
20250602.21	1.30	NW	4.2	10	E
20250603.00	1.30	NW	4.3	9	E
20250603.03	1.29	NW	4.3	9	E
20250603.06	1.26	NW	4.2	9	SE
20250603.09	1.22	NW	4.2	9	SE
20250603.12	1.19	NW	4.1	9	SE
20250603.15	1.12	NW	4.0	8	SE
20250603.18	1.03	NW	3.9	8	E
20250603.21	0.93	W	3.8	7	SE
20250604.00	0.87	NW	3.6	7	SE
20250604.03	0.79	NW	3.6	6	SE
20250604.06	0.72	NW	3.6	5	SE
20250604.09	0.69	NW	3.5	6	SE
20250604.12	0.72	NW	3.3	7	SE
20250604.15	0.69	NW	3.3	5	SE
20250604.18	0.62	NW	3.4	4	SE
20250604.21	0.58	NW	3.3	5	S
20250605.00	0.63	NW	3.0	6	S
20250605.03	0.66	N	3.0	6	SE
20250605.06	0.68	N	3.1	6	SE
20250605.09	0.75	NW	3.2	7	SE
20250605.12	0.87	NW	3.4	8	SE
20250605.15	0.89	NW	3.5	8	SE
20250605.18	0.84	NW	3.6	7	SE
20250605.21	0.80	NW	3.5	7	SE
20250606.00	0.82	NW	3.5	7	SE
20250606.03	0.84	NW	3.6	7	SE
20250606.06	0.82	N	3.7	6	S
20250606.09	0.77	N	3.8	5	S
20250606.12	0.70	N	3.8	5	E
20250606.15	0.67	N	3.6	7	NE
20250606.18	0.70	N	3.3	10	NE
20250606.21	0.76	N	3.3	7	NE
20250607.00	0.81	N	3.4	3	E
20250607.03	0.79	N	3.7	6	SE
20250607.06	0.80	N	4.2	8	SE
20250607.09	0.81	N	4.5	6	S
20250607.12	0.78	N	4.5	4	NE

Wind condition in the Aktau

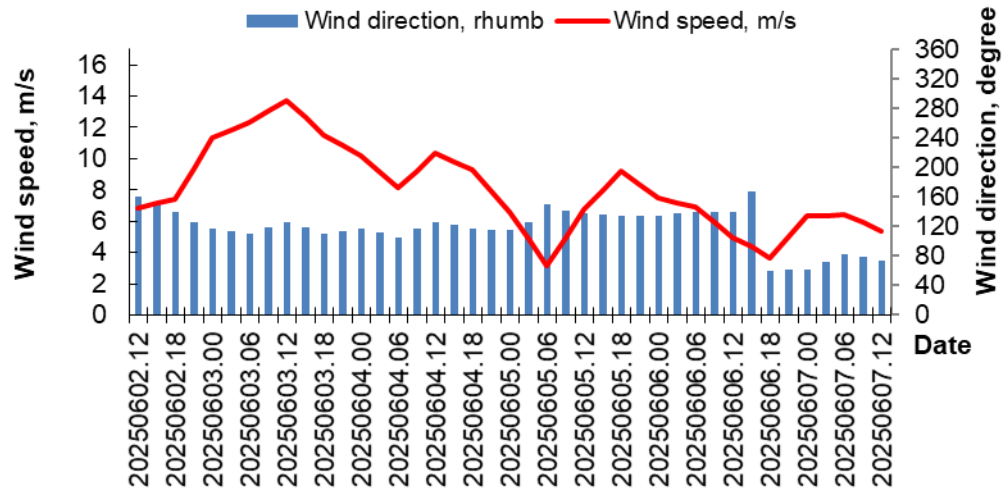


Wave condition in the Aktau

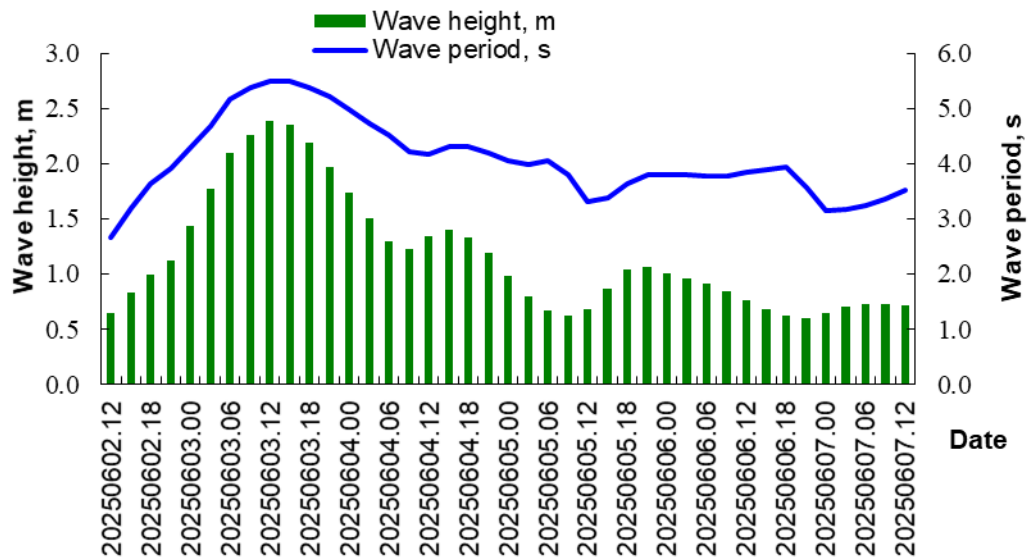


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250602.12	0.69	N	2.7	7	S
20250602.15	0.86	N	3.2	7	SE
20250602.18	0.99	N	3.7	7	SE
20250602.21	1.03	NW	3.9	9	SE
20250603.00	1.30	NW	4.2	11	E
20250603.03	1.60	NW	4.5	11	E
20250603.06	1.77	NW	4.8	11	E
20250603.09	1.87	NW	4.9	12	SE
20250603.12	2.03	NW	5.1	12	SE
20250603.15	2.05	NW	5.2	12	SE
20250603.18	1.93	NW	5.1	11	E
20250603.21	1.73	NW	4.9	10	E
20250604.00	1.50	W	4.7	9	SE
20250604.03	1.29	W	4.5	8	E
20250604.06	1.11	W	4.3	7	E
20250604.09	1.10	NW	4.0	9	SE
20250604.12	1.26	NW	4.0	11	SE
20250604.15	1.32	NW	4.2	10	SE
20250604.18	1.25	NW	4.1	9	SE
20250604.21	1.07	NW	4.0	7	SE
20250605.00	0.87	NW	3.9	6	SE
20250605.03	0.72	W	3.9	4	SE
20250605.06	0.63	NW	4.0	3	S
20250605.09	0.61	NW	3.7	5	SE
20250605.12	0.75	NW	3.3	8	SE
20250605.15	0.95	NW	3.5	9	SE
20250605.18	1.07	NW	3.7	9	SE
20250605.21	1.05	NW	3.8	8	SE
20250606.00	0.97	NW	3.8	7	SE
20250606.03	0.90	NW	3.7	7	SE
20250606.06	0.85	NW	3.8	6	SE
20250606.09	0.80	NW	3.8	6	SE
20250606.12	0.75	NW	3.8	5	SE
20250606.15	0.69	NW	3.8	5	S
20250606.18	0.64	NW	3.7	4	NE
20250606.21	0.63	NW	3.4	6	NE
20250607.00	0.72	N	3.1	7	NE
20250607.03	0.81	N	3.3	7	E
20250607.06	0.84	N	3.4	7	E
20250607.09	0.81	N	3.5	6	E
20250607.12	0.76	N	3.7	5	E

Wind condition in the Peschanyi

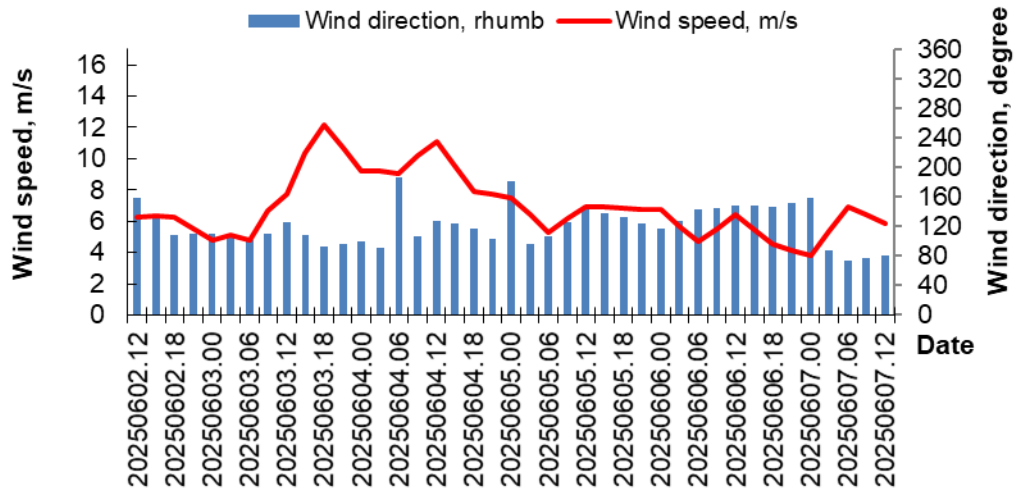


Wave condition in the Peschanyi

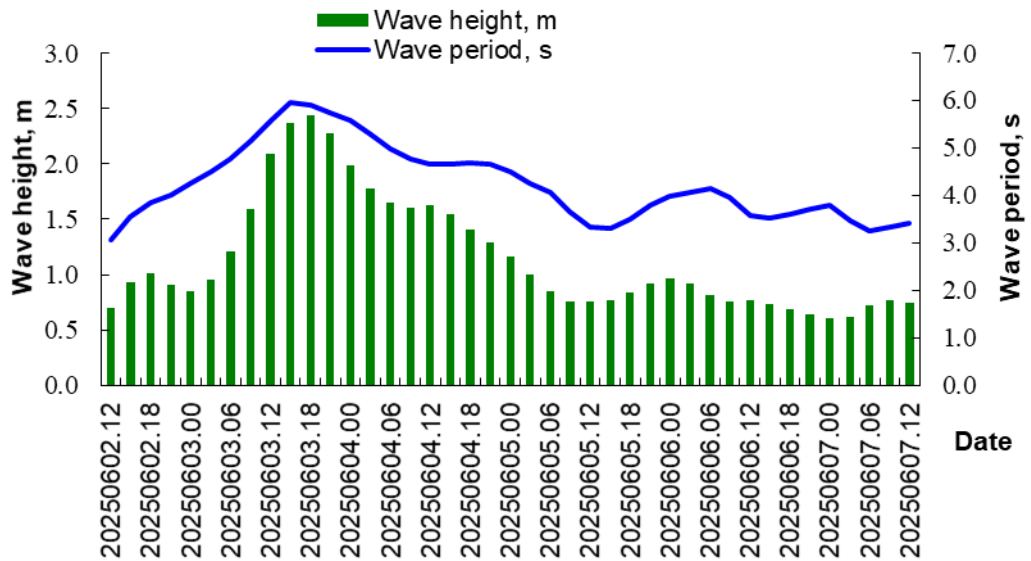


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250602.12	0.65	N	2.7	7	S
20250602.15	0.84	N	3.2	7	SE
20250602.18	0.99	NW	3.6	7	SE
20250602.21	1.12	NW	3.9	9	SE
20250603.00	1.44	NW	4.3	11	SE
20250603.03	1.77	NW	4.7	12	SE
20250603.06	2.10	NW	5.2	12	E
20250603.09	2.27	NW	5.4	13	SE
20250603.12	2.39	NW	5.5	14	SE
20250603.15	2.35	NW	5.5	13	SE
20250603.18	2.19	NW	5.4	12	E
20250603.21	1.97	NW	5.2	11	SE
20250604.00	1.74	NW	5.0	10	SE
20250604.03	1.50	W	4.7	9	E
20250604.06	1.29	W	4.5	8	E
20250604.09	1.23	W	4.2	9	SE
20250604.12	1.34	NW	4.2	10	SE
20250604.15	1.40	NW	4.3	10	SE
20250604.18	1.34	NW	4.3	9	SE
20250604.21	1.20	NW	4.2	8	SE
20250605.00	0.98	W	4.1	7	SE
20250605.03	0.80	W	4.0	5	SE
20250605.06	0.67	W	4.1	3	SE
20250605.09	0.62	W	3.8	5	SE
20250605.12	0.69	NW	3.3	7	SE
20250605.15	0.86	NW	3.4	8	SE
20250605.18	1.04	NW	3.7	9	SE
20250605.21	1.06	NW	3.8	8	SE
20250606.00	1.01	NW	3.8	7	SE
20250606.03	0.96	NW	3.8	7	SE
20250606.06	0.91	NW	3.8	7	SE
20250606.09	0.84	NW	3.8	6	SE
20250606.12	0.76	NW	3.9	5	SE
20250606.15	0.69	NW	3.9	4	S
20250606.18	0.62	NW	3.9	4	NE
20250606.21	0.60	NW	3.6	5	NE
20250607.00	0.65	N	3.1	6	NE
20250607.03	0.71	N	3.2	6	E
20250607.06	0.73	N	3.3	6	E
20250607.09	0.73	N	3.4	6	E
20250607.12	0.72	N	3.5	5	E

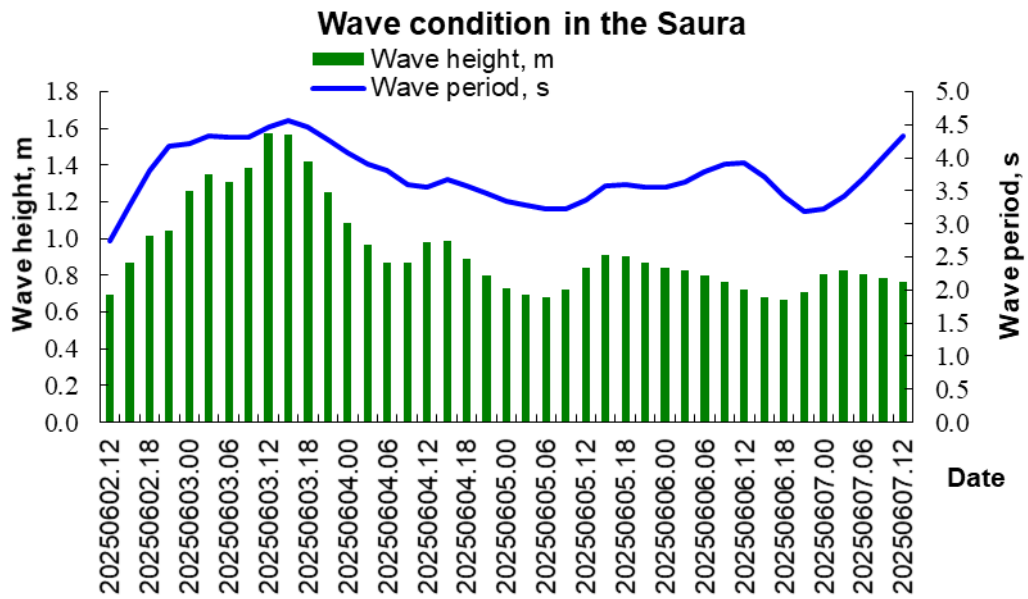
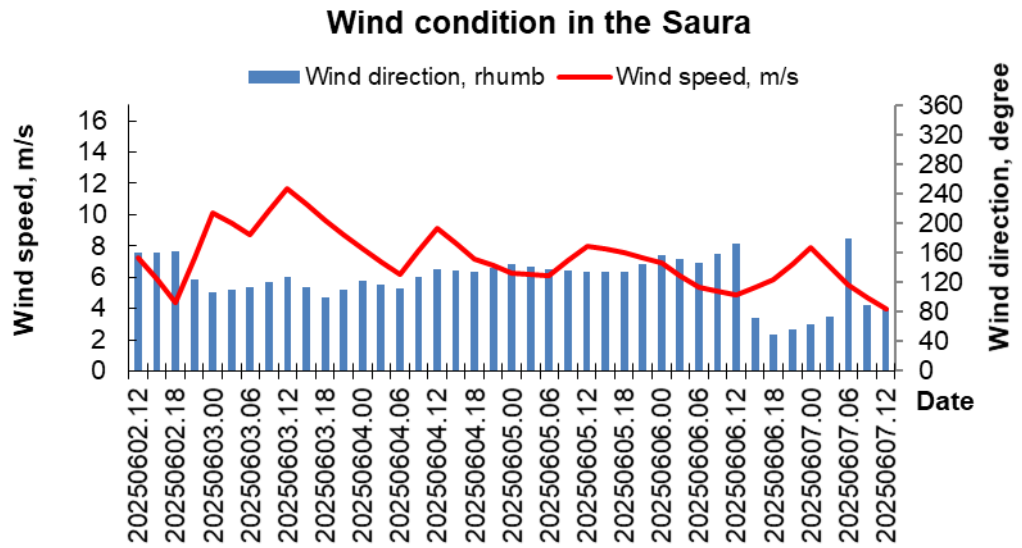
Wind condition in the Fetisovo



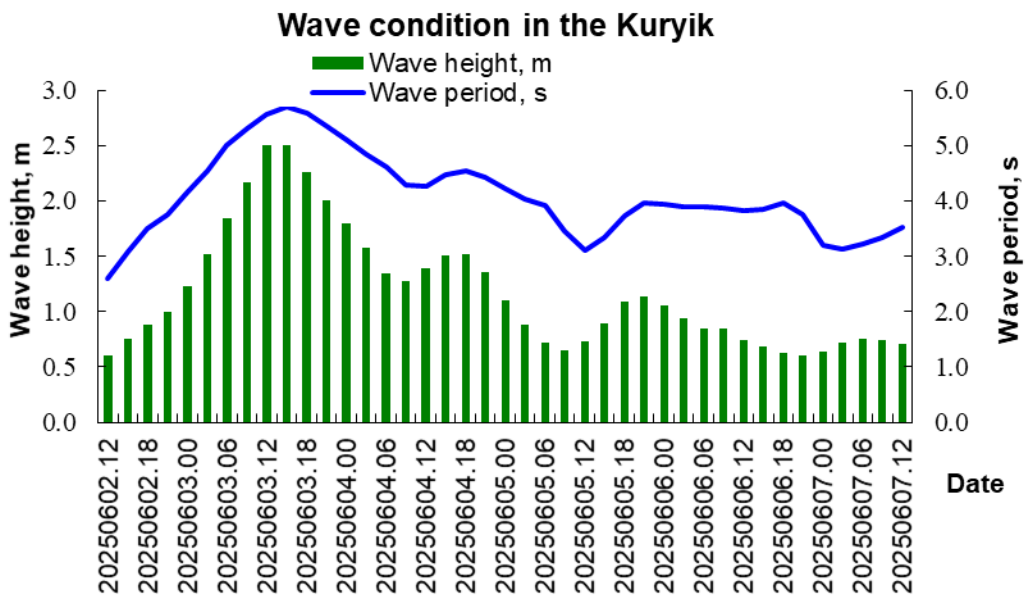
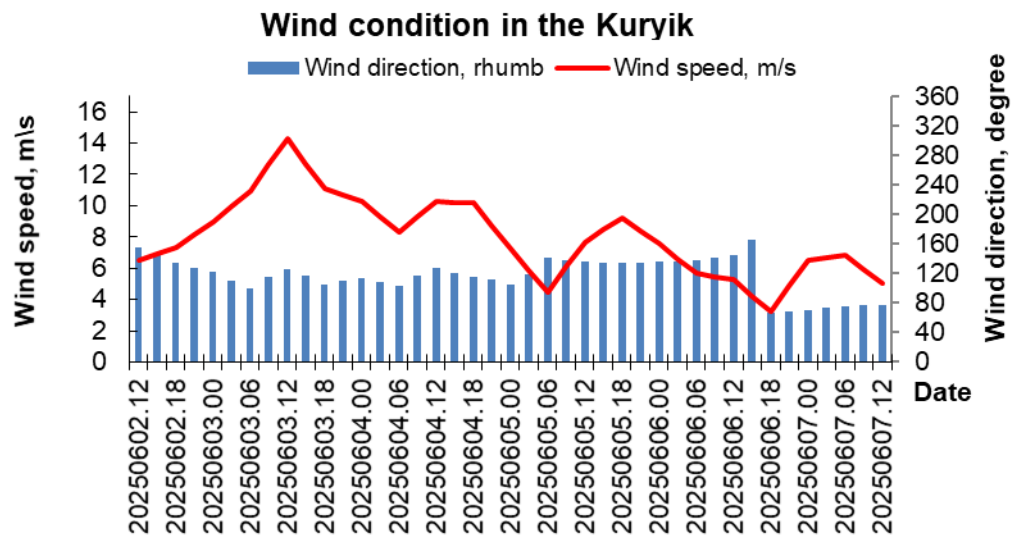
Wave condition in the Fetisovo



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250602.12	0.70	NW	3.1	6	S
20250602.15	0.93	NW	3.6	6	SE
20250602.18	1.01	NW	3.9	6	E
20250602.21	0.91	NW	4.0	6	E
20250603.00	0.85	NW	4.3	5	E
20250603.03	0.95	NW	4.5	5	E
20250603.06	1.20	NW	4.8	5	E
20250603.09	1.59	NW	5.2	7	E
20250603.12	2.09	NW	5.6	8	SE
20250603.15	2.37	NW	6.0	10	E
20250603.18	2.44	NW	5.9	12	E
20250603.21	2.28	NW	5.7	11	E
20250604.00	1.99	NW	5.6	9	E
20250604.03	1.77	NW	5.3	9	E
20250604.06	1.65	W	5.0	9	S
20250604.09	1.61	W	4.8	10	E
20250604.12	1.62	W	4.6	11	SE
20250604.15	1.55	NW	4.7	9	SE
20250604.18	1.41	NW	4.7	8	SE
20250604.21	1.29	NW	4.7	8	E
20250605.00	1.16	NW	4.5	7	S
20250605.03	1.00	NW	4.3	6	E
20250605.06	0.85	NW	4.1	5	E
20250605.09	0.76	NW	3.7	6	SE
20250605.12	0.75	NW	3.3	7	SE
20250605.15	0.77	NW	3.3	7	SE
20250605.18	0.84	NW	3.5	7	SE
20250605.21	0.93	NW	3.8	7	SE
20250606.00	0.97	NW	4.0	7	SE
20250606.03	0.92	NW	4.1	6	SE
20250606.06	0.82	NW	4.2	5	SE
20250606.09	0.75	NW	4.0	6	SE
20250606.12	0.76	NW	3.6	6	SE
20250606.15	0.74	NW	3.5	5	SE
20250606.18	0.69	NW	3.6	5	SE
20250606.21	0.65	NW	3.7	4	SE
20250607.00	0.61	NW	3.8	4	S
20250607.03	0.62	NW	3.5	5	E
20250607.06	0.72	N	3.2	7	E
20250607.09	0.77	N	3.3	6	E
20250607.12	0.75	N	3.4	6	E



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250602.12	0.70	N	2.7	7	S
20250602.15	0.87	N	3.3	6	S
20250602.18	1.02	NW	3.8	4	S
20250602.21	1.04	NW	4.2	7	SE
20250603.00	1.26	NW	4.2	10	E
20250603.03	1.35	NW	4.3	9	E
20250603.06	1.31	NW	4.3	9	SE
20250603.09	1.38	NW	4.3	10	SE
20250603.12	1.58	NW	4.5	12	SE
20250603.15	1.57	NW	4.6	11	SE
20250603.18	1.42	NW	4.5	10	E
20250603.21	1.25	W	4.3	9	E
20250604.00	1.09	W	4.1	8	SE
20250604.03	0.97	W	3.9	7	SE
20250604.06	0.87	NW	3.8	6	E
20250604.09	0.87	NW	3.6	8	SE
20250604.12	0.98	NW	3.6	9	SE
20250604.15	0.99	NW	3.7	8	SE
20250604.18	0.89	NW	3.6	7	SE
20250604.21	0.80	NW	3.5	7	SE
20250605.00	0.73	NW	3.3	6	SE
20250605.03	0.70	NW	3.3	6	SE
20250605.06	0.68	NW	3.2	6	SE
20250605.09	0.72	NW	3.2	7	SE
20250605.12	0.84	NW	3.4	8	SE
20250605.15	0.91	NW	3.6	8	SE
20250605.18	0.90	NW	3.6	8	SE
20250605.21	0.87	NW	3.5	7	SE
20250606.00	0.84	NW	3.5	7	SE
20250606.03	0.83	NW	3.6	6	SE
20250606.06	0.80	NW	3.8	5	SE
20250606.09	0.77	N	3.9	5	S
20250606.12	0.72	N	3.9	5	S
20250606.15	0.68	N	3.7	5	E
20250606.18	0.66	N	3.4	6	NE
20250606.21	0.71	N	3.2	7	NE
20250607.00	0.81	N	3.2	8	NE
20250607.03	0.83	N	3.4	7	E
20250607.06	0.81	N	3.7	6	S
20250607.09	0.79	N	4.0	5	E
20250607.12	0.76	N	4.3	4	E



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250602.12	0.60	NW	2.6	6	SE
20250602.15	0.76	NW	3.1	7	SE
20250602.18	0.88	NW	3.5	7	SE
20250602.21	1.00	NW	3.8	8	SE
20250603.00	1.23	NW	4.1	9	SE
20250603.03	1.52	NW	4.5	10	E
20250603.06	1.84	NW	5.0	11	E
20250603.09	2.16	NW	5.3	13	SE
20250603.12	2.51	NW	5.6	14	SE
20250603.15	2.50	NW	5.7	13	SE
20250603.18	2.26	NW	5.6	11	E
20250603.21	2.01	NW	5.4	11	E
20250604.00	1.80	NW	5.1	10	SE
20250604.03	1.58	NW	4.8	9	E
20250604.06	1.35	W	4.6	8	E
20250604.09	1.27	W	4.3	9	SE
20250604.12	1.39	NW	4.3	10	SE
20250604.15	1.51	NW	4.5	10	SE
20250604.18	1.51	NW	4.5	10	SE
20250604.21	1.35	NW	4.4	9	E
20250605.00	1.11	W	4.2	7	E
20250605.03	0.88	W	4.0	6	SE
20250605.06	0.72	W	3.9	4	SE
20250605.09	0.65	NW	3.5	6	SE
20250605.12	0.73	NW	3.1	8	SE
20250605.15	0.89	NW	3.3	8	SE
20250605.18	1.09	NW	3.7	9	SE
20250605.21	1.14	NW	4.0	8	SE
20250606.00	1.06	NW	3.9	8	SE
20250606.03	0.94	NW	3.9	7	SE
20250606.06	0.85	NW	3.9	6	SE
20250606.09	0.85	NW	3.9	5	SE
20250606.12	0.74	NW	3.8	5	SE
20250606.15	0.69	NW	3.9	4	S
20250606.18	0.63	NW	4.0	3	NE
20250606.21	0.60	NW	3.8	5	E
20250607.00	0.64	NW	3.2	6	E
20250607.03	0.71	N	3.1	7	E
20250607.06	0.76	N	3.2	7	E
20250607.09	0.74	N	3.3	6	E
20250607.12	0.71	N	3.5	5	E

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

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Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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