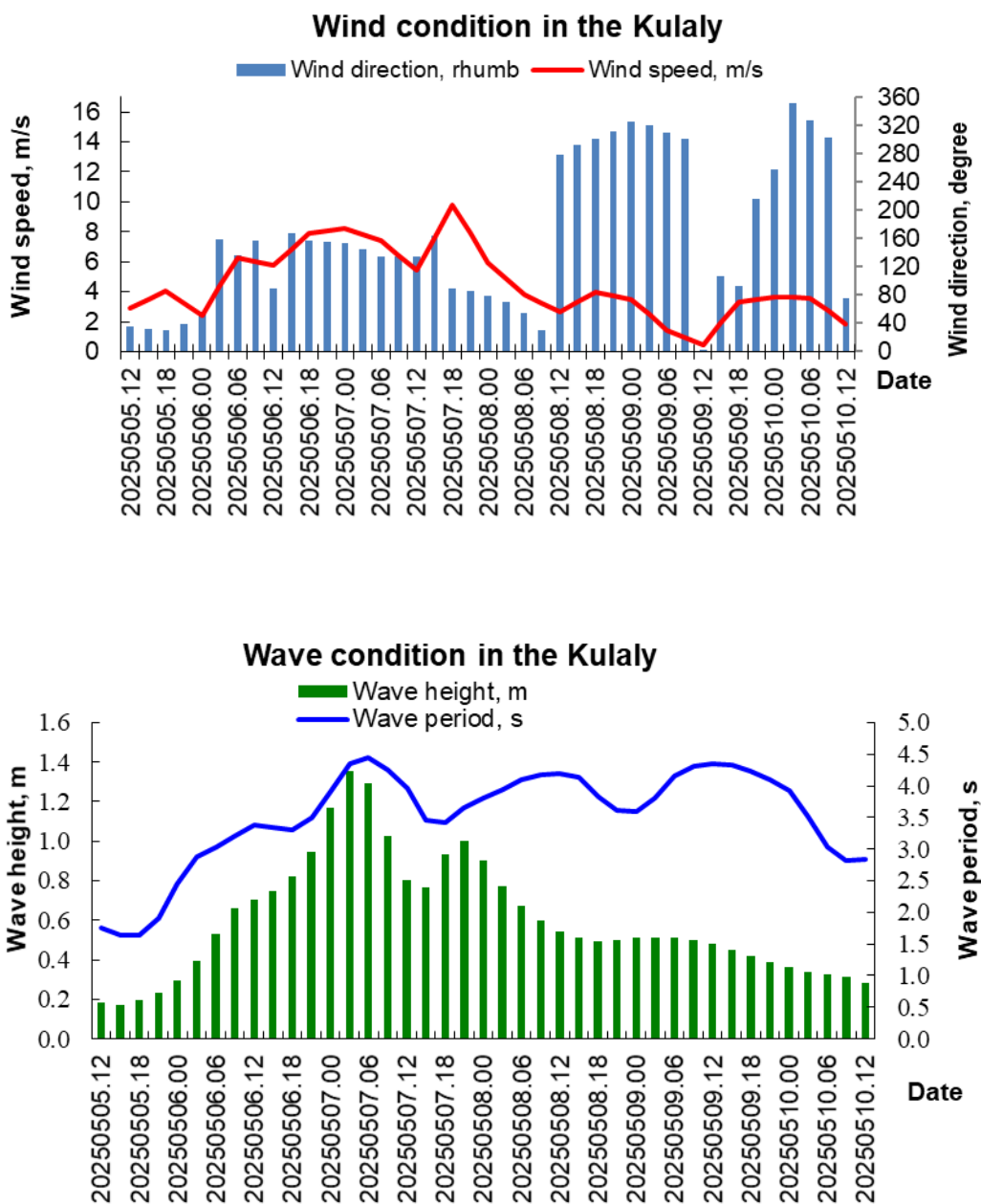




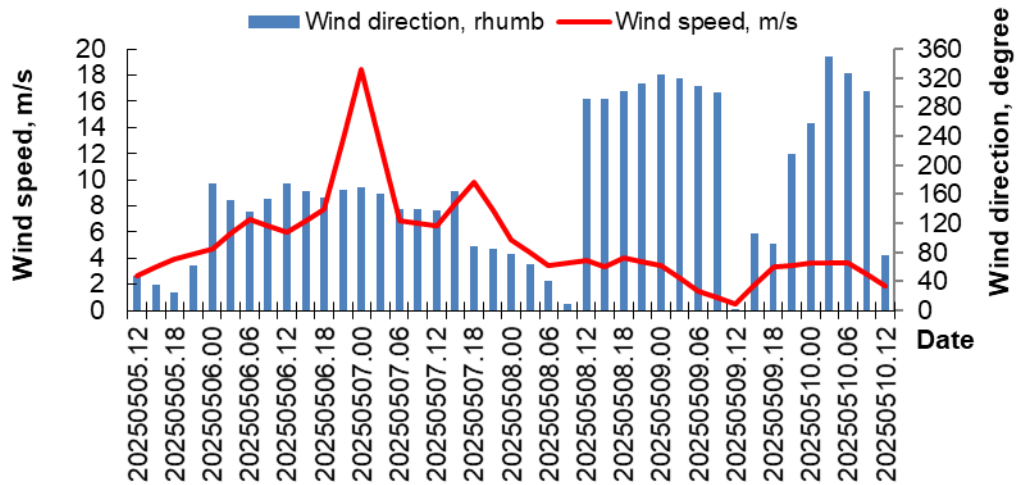
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period May 05 - 10, 2025.**

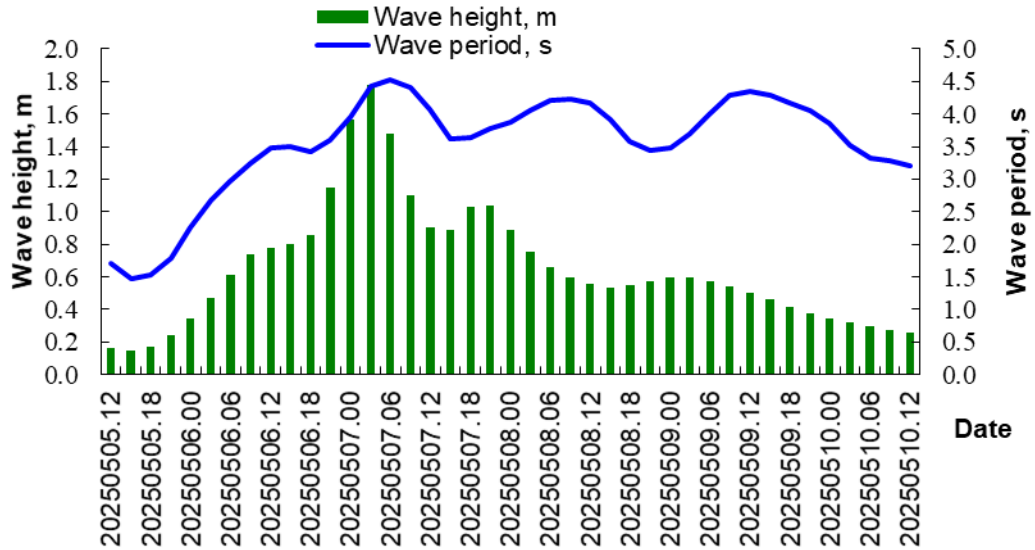


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250505.12	0.18	NE	1.8	3	NE
20250505.15	0.17	NE	1.6	3	NE
20250505.18	0.19	NE	1.6	4	NE
20250505.21	0.23	NE	1.9	3	NE
20250506.00	0.30	NE	2.4	2	NE
20250506.03	0.39	N	2.9	4	S
20250506.06	0.53	N	3.0	6	SE
20250506.09	0.66	N	3.2	6	SE
20250506.12	0.71	N	3.4	6	E
20250506.15	0.74	N	3.3	7	S
20250506.18	0.82	N	3.3	8	SE
20250506.21	0.95	N	3.5	8	SE
20250507.00	1.17	N	3.9	8	SE
20250507.03	1.36	N	4.4	8	SE
20250507.06	1.29	N	4.5	7	SE
20250507.09	1.02	N	4.2	6	SE
20250507.12	0.80	N	4.0	5	SE
20250507.15	0.77	NW	3.5	8	S
20250507.18	0.93	N	3.4	10	E
20250507.21	1.00	N	3.7	8	E
20250508.00	0.90	N	3.8	6	E
20250508.03	0.77	N	4.0	5	E
20250508.06	0.67	N	4.1	4	NE
20250508.09	0.60	NE	4.2	3	NE
20250508.12	0.54	NE	4.2	3	W
20250508.15	0.51	NE	4.1	3	W
20250508.18	0.50	NE	3.8	4	NW
20250508.21	0.50	E	3.6	4	NW
20250509.00	0.51	E	3.6	3	NW
20250509.03	0.51	E	3.8	2	NW
20250509.06	0.51	E	4.1	1	NW
20250509.09	0.50	E	4.3	1	NW
20250509.12	0.48	E	4.4	0	N
20250509.15	0.45	E	4.3	2	E
20250509.18	0.42	E	4.2	3	E
20250509.21	0.39	E	4.1	3	SW
20250510.00	0.36	E	3.9	4	W
20250510.03	0.34	E	3.5	4	N
20250510.06	0.33	E	3.0	4	NW
20250510.09	0.31	E	2.8	3	NW
20250510.12	0.29	E	2.8	2	E

Wind condition in the Fort-Shevchenko

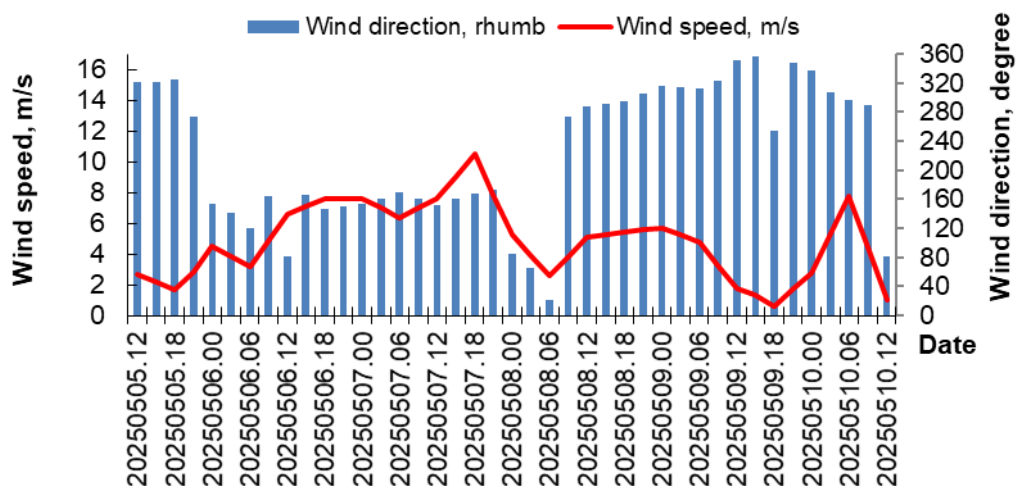


Wave condition in the Fort-Shevchenko

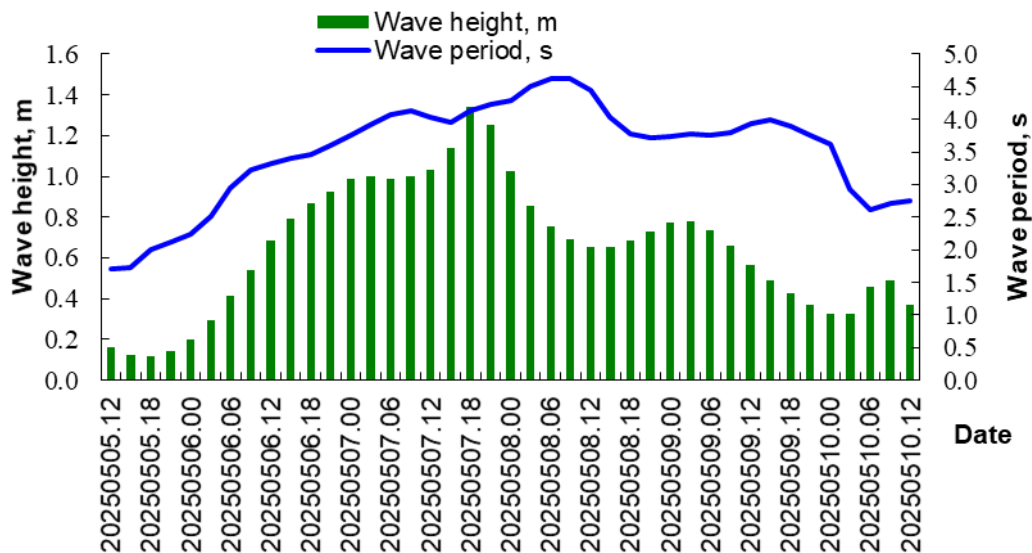


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250505.12	0.16	NE	1.7	3	NE
20250505.15	0.15	NE	1.5	3	NE
20250505.18	0.18	NE	1.5	4	NE
20250505.21	0.24	NE	1.8	4	NE
20250506.00	0.35	N	2.3	5	S
20250506.03	0.47	N	2.7	6	SE
20250506.06	0.61	N	3.0	7	SE
20250506.09	0.74	N	3.2	7	SE
20250506.12	0.78	N	3.5	6	S
20250506.15	0.80	N	3.5	7	S
20250506.18	0.86	N	3.4	8	SE
20250506.21	1.15	N	3.6	13	S
20250507.00	1.57	N	4.0	18	S
20250507.03	1.78	N	4.4	13	S
20250507.06	1.48	N	4.5	7	SE
20250507.09	1.10	N	4.4	7	SE
20250507.12	0.90	NW	4.1	6	SE
20250507.15	0.89	NW	3.6	8	S
20250507.18	1.03	N	3.6	10	E
20250507.21	1.04	N	3.8	8	E
20250508.00	0.89	N	3.9	5	E
20250508.03	0.75	N	4.0	4	NE
20250508.06	0.66	N	4.2	3	NE
20250508.09	0.60	N	4.2	4	N
20250508.12	0.56	NE	4.2	4	W
20250508.15	0.54	NE	3.9	3	W
20250508.18	0.55	NE	3.6	4	NW
20250508.21	0.57	E	3.4	4	NW
20250509.00	0.60	E	3.5	3	NW
20250509.03	0.60	E	3.7	2	NW
20250509.06	0.57	E	4.0	1	NW
20250509.09	0.54	E	4.3	1	NW
20250509.12	0.50	E	4.3	0	N
20250509.15	0.46	E	4.3	2	E
20250509.18	0.42	E	4.2	3	E
20250509.21	0.38	E	4.0	3	SW
20250510.00	0.34	E	3.9	4	W
20250510.03	0.32	E	3.5	4	N
20250510.06	0.29	E	3.3	4	NW
20250510.09	0.27	E	3.3	3	NW
20250510.12	0.26	E	3.2	2	E

Wind condition in the Aktau

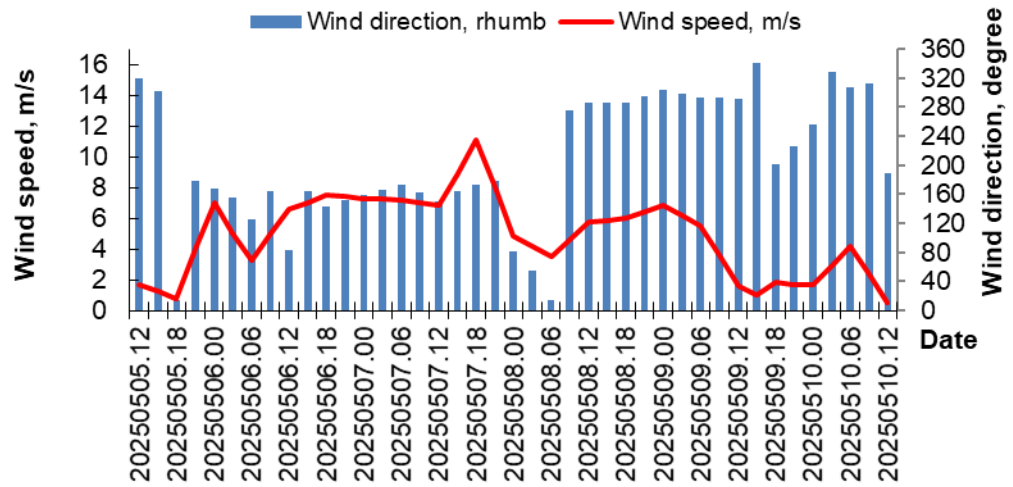


Wave condition in the Aktau

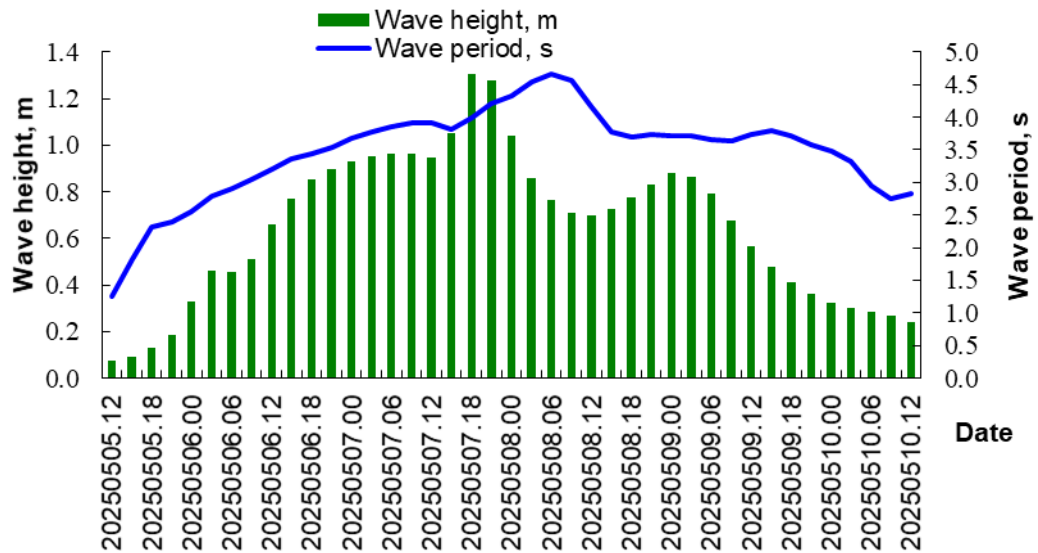


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250505.12	0.16	SE	1.7	3	NW
20250505.15	0.12	SE	1.7	2	NW
20250505.18	0.12	E	2.0	2	NW
20250505.21	0.14	E	2.1	3	W
20250506.00	0.20	NE	2.2	4	SE
20250506.03	0.30	N	2.5	4	SE
20250506.06	0.41	N	2.9	3	SE
20250506.09	0.54	N	3.2	5	S
20250506.12	0.69	N	3.3	7	E
20250506.15	0.80	N	3.4	7	S
20250506.18	0.87	N	3.5	8	SE
20250506.21	0.93	NW	3.6	8	SE
20250507.00	0.99	NW	3.8	8	SE
20250507.03	1.00	NW	3.9	7	S
20250507.06	0.99	NW	4.1	6	S
20250507.09	1.00	NW	4.1	7	S
20250507.12	1.03	NW	4.0	8	SE
20250507.15	1.14	NW	4.0	9	S
20250507.18	1.34	N	4.1	10	S
20250507.21	1.25	N	4.2	8	S
20250508.00	1.03	N	4.3	5	E
20250508.03	0.85	N	4.5	4	NE
20250508.06	0.76	N	4.6	3	N
20250508.09	0.69	N	4.6	4	W
20250508.12	0.66	N	4.4	5	W
20250508.15	0.65	NE	4.0	5	W
20250508.18	0.69	NE	3.8	5	NW
20250508.21	0.73	NE	3.7	6	NW
20250509.00	0.77	E	3.7	6	NW
20250509.03	0.78	E	3.8	5	NW
20250509.06	0.74	E	3.8	5	NW
20250509.09	0.66	E	3.8	3	NW
20250509.12	0.57	E	3.9	2	N
20250509.15	0.49	E	4.0	1	N
20250509.18	0.42	E	3.9	1	W
20250509.21	0.37	E	3.8	2	N
20250510.00	0.33	E	3.6	3	NW
20250510.03	0.32	E	2.9	5	NW
20250510.06	0.46	E	2.6	8	NW
20250510.09	0.49	E	2.7	4	W
20250510.12	0.37	E	2.8	1	E

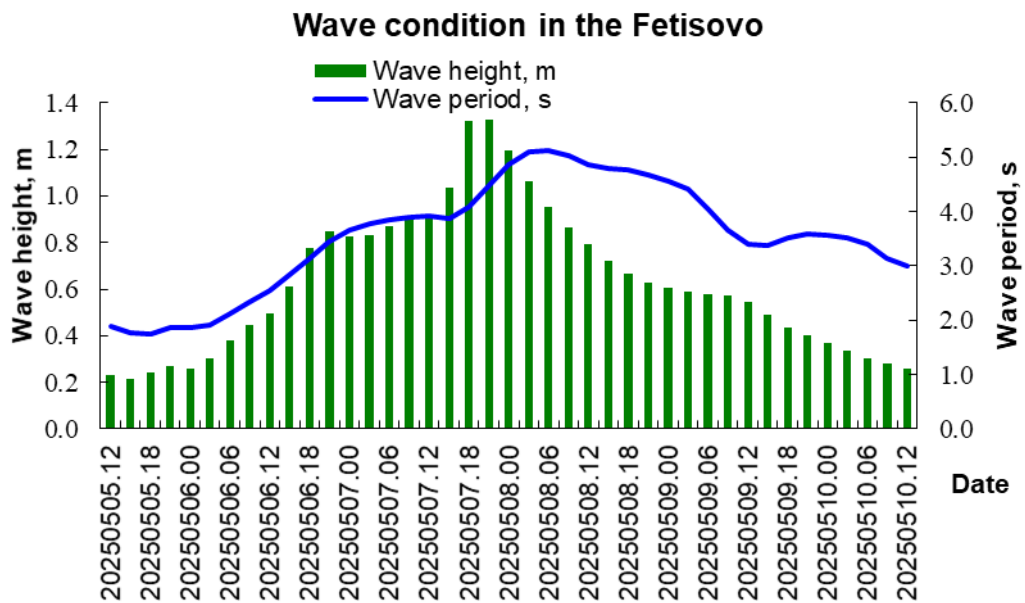
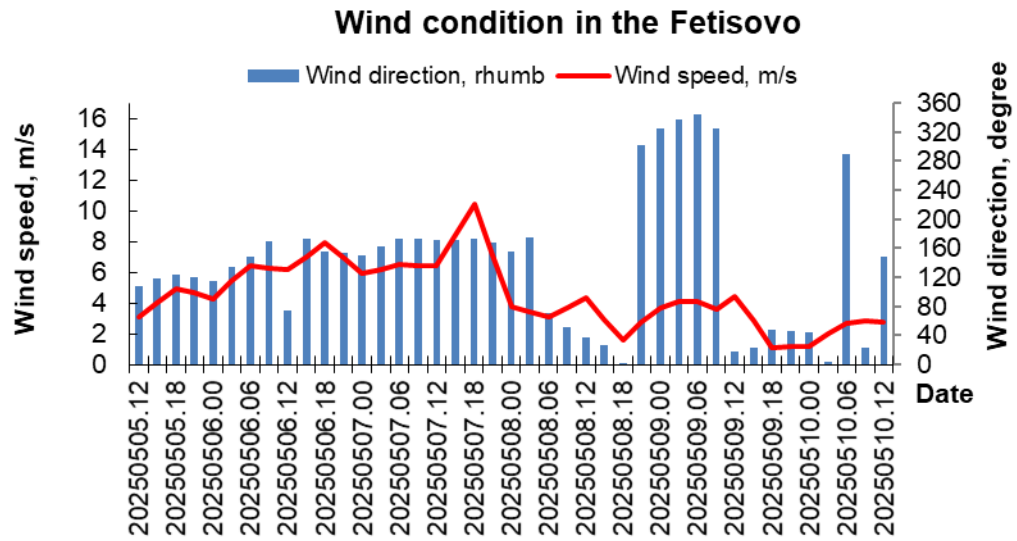
Wind condition in the Peschanyi



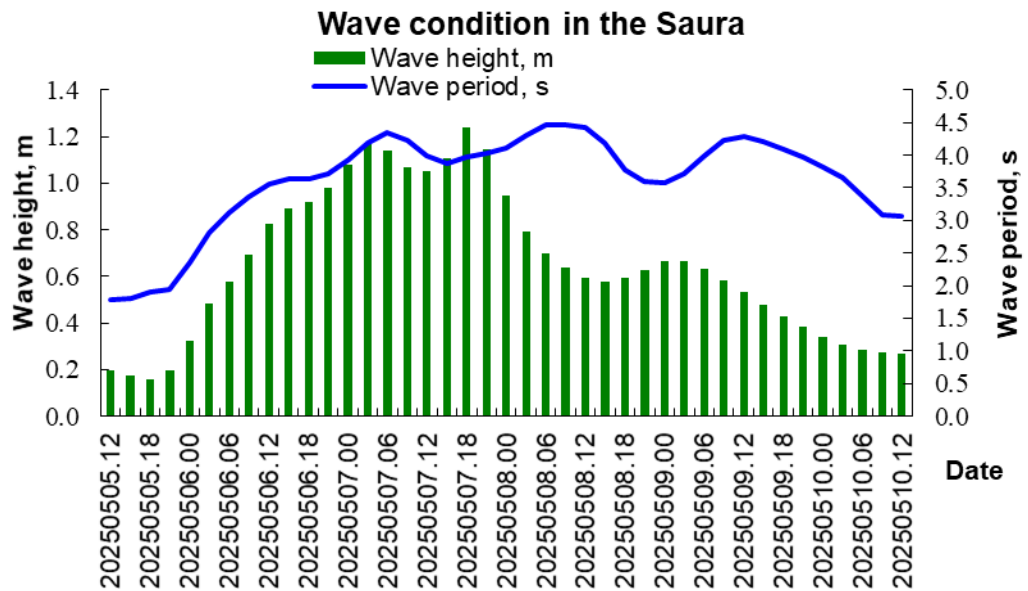
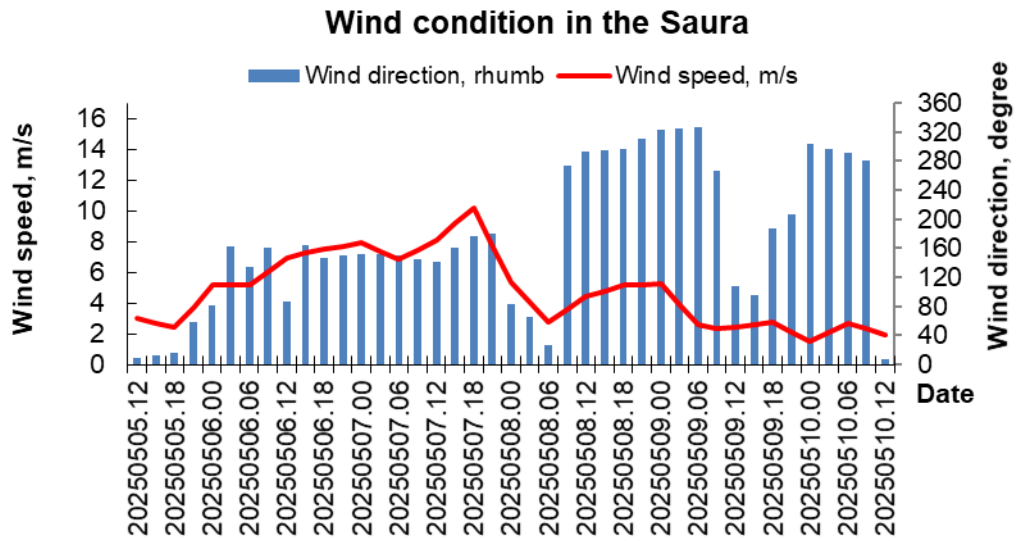
Wave condition in the Peschanyi



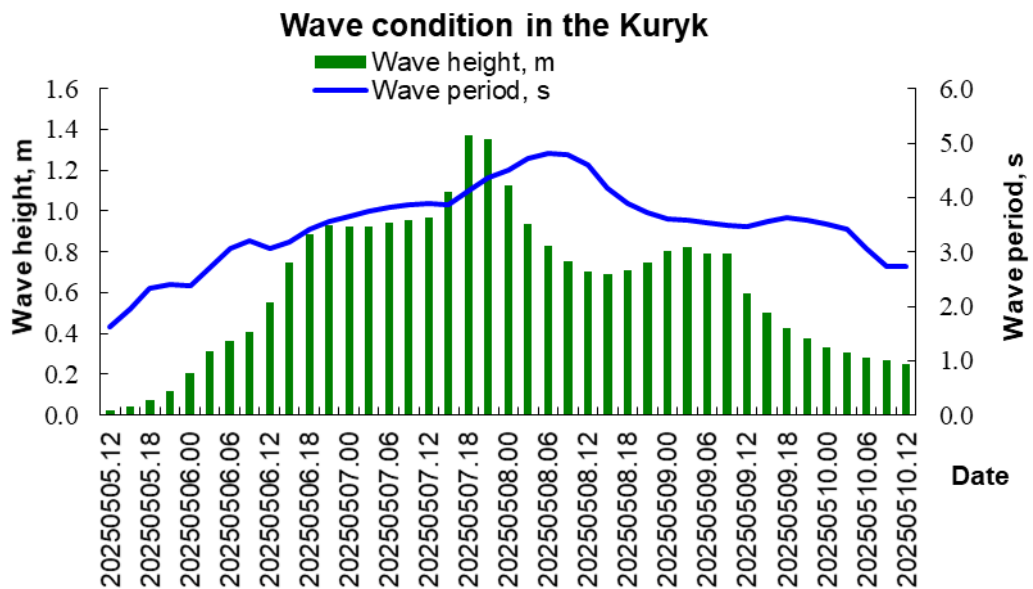
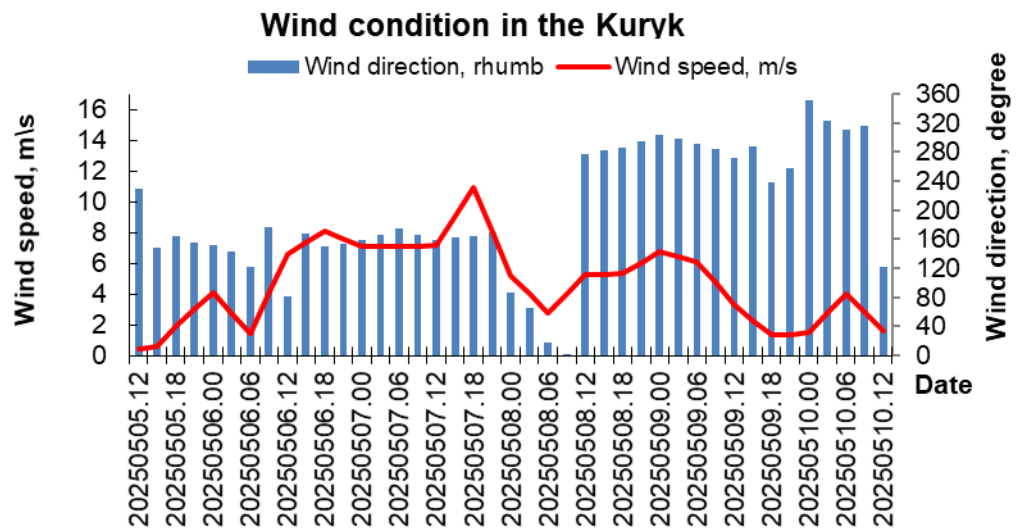
Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250505.12	0.07	SE	1.3	2	NW
20250505.15	0.09	E	1.8	1	NW
20250505.18	0.13	NE	2.3	1	N
20250505.21	0.19	NE	2.4	4	S
20250506.00	0.33	NE	2.5	7	S
20250506.03	0.46	NE	2.8	5	SE
20250506.06	0.46	N	2.9	3	SE
20250506.09	0.51	N	3.1	5	S
20250506.12	0.66	N	3.2	7	E
20250506.15	0.77	N	3.4	7	S
20250506.18	0.85	NW	3.4	8	SE
20250506.21	0.90	NW	3.5	7	SE
20250507.00	0.93	NW	3.7	7	S
20250507.03	0.95	NW	3.8	7	S
20250507.06	0.96	NW	3.8	7	S
20250507.09	0.96	NW	3.9	7	S
20250507.12	0.95	NW	3.9	7	SE
20250507.15	1.05	NW	3.8	9	S
20250507.18	1.31	N	4.0	11	S
20250507.21	1.28	N	4.2	8	S
20250508.00	1.04	N	4.3	5	E
20250508.03	0.86	N	4.6	4	NE
20250508.06	0.77	N	4.7	3	N
20250508.09	0.71	N	4.6	5	W
20250508.12	0.70	N	4.2	6	W
20250508.15	0.73	NE	3.8	6	W
20250508.18	0.78	NE	3.7	6	W
20250508.21	0.83	E	3.7	6	NW
20250509.00	0.88	E	3.7	7	NW
20250509.03	0.87	E	3.7	6	NW
20250509.06	0.79	E	3.6	5	NW
20250509.09	0.68	E	3.6	4	W
20250509.12	0.56	E	3.7	2	W
20250509.15	0.48	E	3.8	1	N
20250509.18	0.41	E	3.7	2	S
20250509.21	0.36	E	3.6	2	SW
20250510.00	0.33	E	3.5	2	W
20250510.03	0.30	NE	3.3	3	NW
20250510.06	0.29	NE	2.9	4	NW
20250510.09	0.27	NE	2.8	2	NW
20250510.12	0.24	NE	2.8	0	S



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250505.12	0.23	W	1.9	3	E
20250505.15	0.21	W	1.8	4	SE
20250505.18	0.24	NW	1.7	5	SE
20250505.21	0.27	NW	1.9	5	SE
20250506.00	0.26	W	1.9	4	SE
20250506.03	0.30	NW	1.9	5	SE
20250506.06	0.38	NW	2.1	6	SE
20250506.09	0.45	NW	2.3	6	S
20250506.12	0.50	N	2.6	6	E
20250506.15	0.61	N	2.8	7	S
20250506.18	0.78	N	3.1	8	SE
20250506.21	0.85	N	3.4	7	SE
20250507.00	0.83	N	3.7	6	SE
20250507.03	0.83	N	3.8	6	S
20250507.06	0.87	N	3.8	6	S
20250507.09	0.90	N	3.9	6	S
20250507.12	0.91	N	3.9	6	S
20250507.15	1.04	N	3.9	8	S
20250507.18	1.32	N	4.1	10	S
20250507.21	1.33	N	4.5	7	S
20250508.00	1.20	N	4.9	4	SE
20250508.03	1.06	N	5.1	3	S
20250508.06	0.95	N	5.1	3	E
20250508.09	0.86	N	5.0	4	NE
20250508.12	0.79	N	4.9	4	NE
20250508.15	0.72	N	4.8	3	NE
20250508.18	0.67	N	4.8	2	N
20250508.21	0.63	N	4.7	3	NW
20250509.00	0.60	N	4.6	4	NW
20250509.03	0.59	N	4.4	4	NW
20250509.06	0.58	NE	4.0	4	N
20250509.09	0.57	NE	3.7	4	NW
20250509.12	0.54	NE	3.4	4	N
20250509.15	0.49	NE	3.4	3	NE
20250509.18	0.44	NE	3.5	1	NE
20250509.21	0.40	NE	3.6	1	NE
20250510.00	0.37	NE	3.6	1	NE
20250510.03	0.33	NE	3.5	2	N
20250510.06	0.31	NE	3.4	3	W
20250510.09	0.28	NE	3.1	3	NE
20250510.12	0.26	NE	3.0	3	SE



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250505.12	0.19	E	1.8	3	N
20250505.15	0.17	E	1.8	3	N
20250505.18	0.16	E	1.9	2	N
20250505.21	0.20	NE	2.0	4	NE
20250506.00	0.32	NE	2.4	5	E
20250506.03	0.48	N	2.8	5	S
20250506.06	0.58	N	3.1	5	SE
20250506.09	0.69	N	3.4	6	S
20250506.12	0.83	N	3.6	7	E
20250506.15	0.89	N	3.6	7	S
20250506.18	0.92	N	3.6	8	SE
20250506.21	0.98	N	3.7	8	SE
20250507.00	1.08	N	3.9	8	SE
20250507.03	1.17	NW	4.2	7	SE
20250507.06	1.14	NW	4.3	7	SE
20250507.09	1.07	NW	4.2	7	SE
20250507.12	1.05	NW	4.0	8	SE
20250507.15	1.11	NW	3.9	9	S
20250507.18	1.24	N	4.0	10	S
20250507.21	1.14	N	4.0	8	S
20250508.00	0.95	N	4.1	5	E
20250508.03	0.79	N	4.3	4	NE
20250508.06	0.70	N	4.5	3	NE
20250508.09	0.64	N	4.5	4	W
20250508.12	0.60	N	4.4	4	NW
20250508.15	0.57	NE	4.2	5	NW
20250508.18	0.59	NE	3.8	5	NW
20250508.21	0.63	E	3.6	5	NW
20250509.00	0.66	E	3.6	5	NW
20250509.03	0.67	E	3.7	4	NW
20250509.06	0.63	E	4.0	3	NW
20250509.09	0.59	E	4.2	2	W
20250509.12	0.53	E	4.3	2	E
20250509.15	0.48	E	4.2	3	E
20250509.18	0.43	E	4.1	3	S
20250509.21	0.38	E	4.0	2	SW
20250510.00	0.34	E	3.8	1	NW
20250510.03	0.31	E	3.7	2	NW
20250510.06	0.28	E	3.4	3	W
20250510.09	0.27	E	3.1	2	W
20250510.12	0.27	E	3.1	2	N



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250505.12	0.02	S	1.6	0	SW
20250505.15	0.04	E	1.9	1	SE
20250505.18	0.07	NE	2.3	2	S
20250505.21	0.11	NE	2.4	3	SE
20250506.00	0.20	NE	2.4	4	SE
20250506.03	0.31	NE	2.7	3	SE
20250506.06	0.36	N	3.1	1	SE
20250506.09	0.41	N	3.2	4	S
20250506.12	0.55	N	3.1	7	E
20250506.15	0.75	N	3.2	7	S
20250506.18	0.89	N	3.4	8	SE
20250506.21	0.93	NW	3.6	8	SE
20250507.00	0.92	NW	3.7	7	S
20250507.03	0.93	NW	3.8	7	S
20250507.06	0.94	N	3.8	7	S
20250507.09	0.95	N	3.9	7	S
20250507.12	0.97	N	3.9	7	S
20250507.15	1.09	NW	3.9	9	S
20250507.18	1.37	NW	4.1	11	S
20250507.21	1.35	NW	4.4	8	S
20250508.00	1.13	NW	4.5	5	E
20250508.03	0.94	NW	4.7	4	NE
20250508.06	0.83	N	4.8	3	N
20250508.09	0.75	N	4.8	4	N
20250508.12	0.70	N	4.6	5	W
20250508.15	0.69	N	4.2	5	W
20250508.18	0.71	NE	3.9	5	W
20250508.21	0.75	NE	3.7	6	NW
20250509.00	0.80	NE	3.6	7	NW
20250509.03	0.83	E	3.6	6	NW
20250509.06	0.79	E	3.5	6	W
20250509.09	0.79	E	3.5	5	W
20250509.12	0.60	E	3.5	3	W
20250509.15	0.50	E	3.6	2	W
20250509.18	0.43	E	3.6	1	SW
20250509.21	0.37	E	3.6	1	W
20250510.00	0.33	NE	3.5	1	N
20250510.03	0.30	NE	3.4	3	NW
20250510.06	0.28	NE	3.1	4	NW
20250510.09	0.27	NE	2.7	3	NW
20250510.12	0.25	NE	2.7	2	SE

**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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