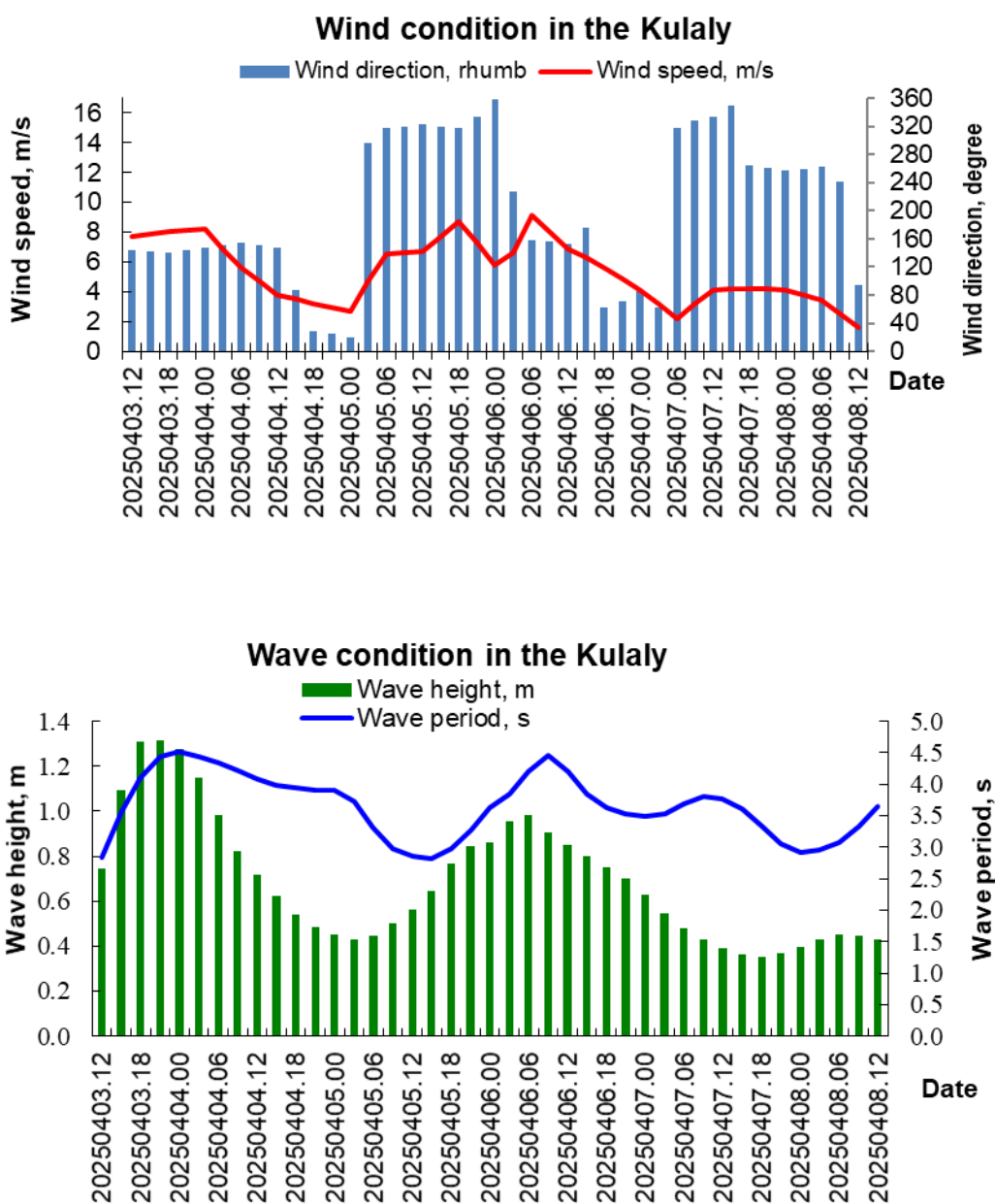




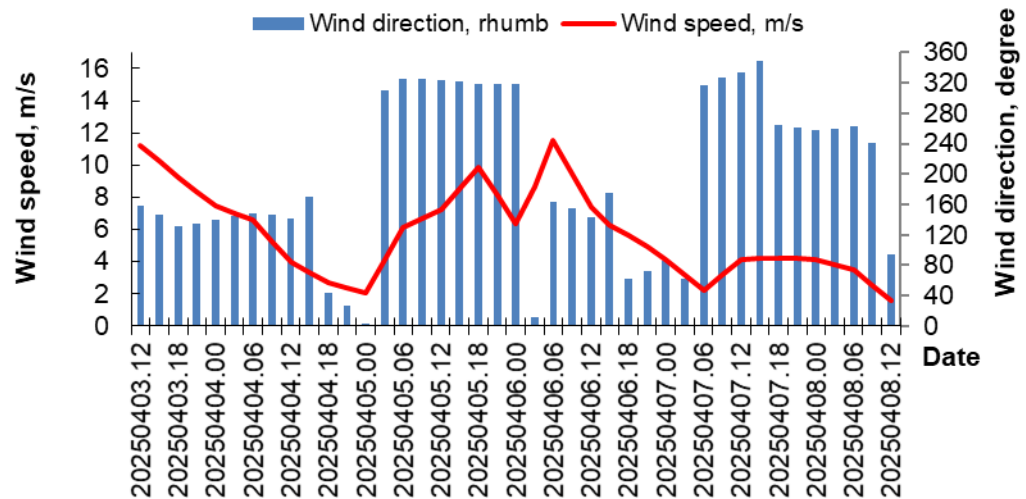
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 03 –08, 2025.**

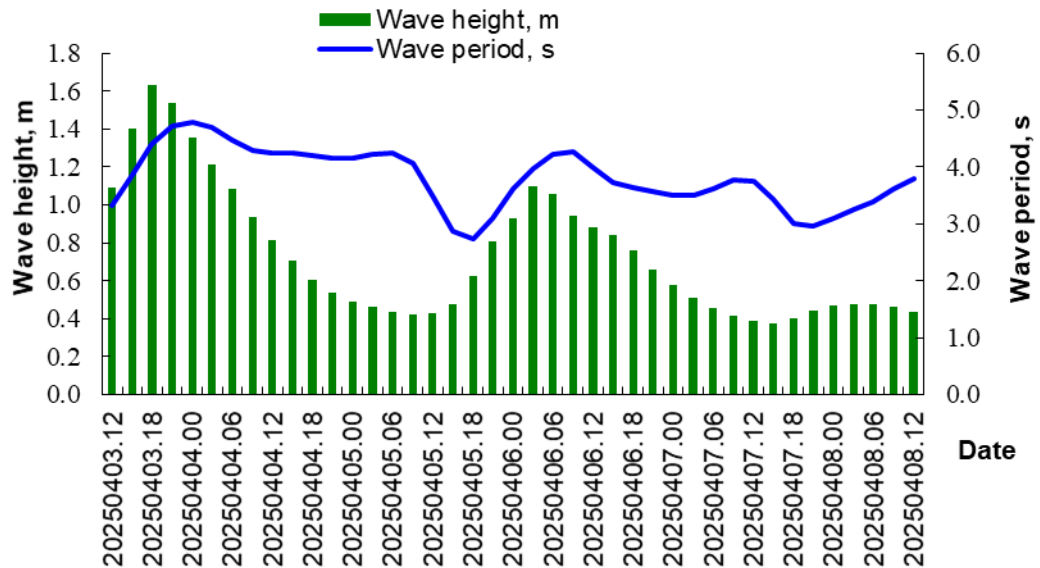


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250403.12	0.75	NW	2.8	8	SE
20250403.15	1.10	NW	3.6	8	SE
20250403.18	1.31	NW	4.1	8	SE
20250403.21	1.32	NW	4.4	8	SE
20250404.00	1.28	NW	4.5	8	SE
20250404.03	1.15	NW	4.4	7	SE
20250404.06	0.98	NW	4.3	6	SE
20250404.09	0.82	NW	4.2	5	SE
20250404.12	0.72	NW	4.1	4	SE
20250404.15	0.62	NW	4.0	4	E
20250404.18	0.54	NW	3.9	3	NE
20250404.21	0.48	NW	3.9	3	NE
20250405.00	0.45	N	3.9	3	N
20250405.03	0.43	N	3.7	5	NW
20250405.06	0.45	NE	3.3	7	NW
20250405.09	0.50	E	3.0	7	NW
20250405.12	0.56	E	2.9	7	NW
20250405.15	0.64	E	2.8	8	NW
20250405.18	0.77	E	3.0	9	NW
20250405.21	0.84	E	3.3	7	NW
20250406.00	0.86	E	3.6	6	N
20250406.03	0.96	E	3.8	7	SW
20250406.06	0.98	E	4.2	9	S
20250406.09	0.91	E	4.5	8	SE
20250406.12	0.85	E	4.2	7	SE
20250406.15	0.80	E	3.8	6	S
20250406.18	0.75	NE	3.6	6	NE
20250406.21	0.70	NE	3.5	5	E
20250407.00	0.63	E	3.5	4	E
20250407.03	0.55	E	3.5	3	NE
20250407.06	0.48	E	3.7	2	NW
20250407.09	0.43	E	3.8	3	NW
20250407.12	0.39	E	3.8	4	NW
20250407.15	0.36	E	3.6	4	N
20250407.18	0.35	E	3.3	4	W
20250407.21	0.37	E	3.1	4	W
20250408.00	0.40	E	2.9	4	W
20250408.03	0.43	E	2.9	4	W
20250408.06	0.45	SE	3.1	3	W
20250408.09	0.45	E	3.3	3	SW
20250408.12	0.43	E	3.7	2	E

Wind condition in the Fort-Shevchenko

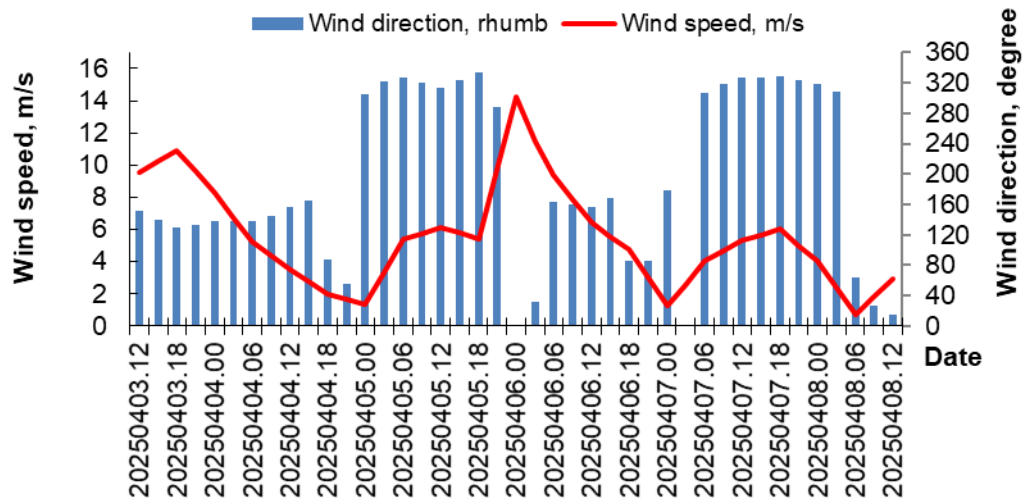


Wave condition in the Fort-Shevchenko

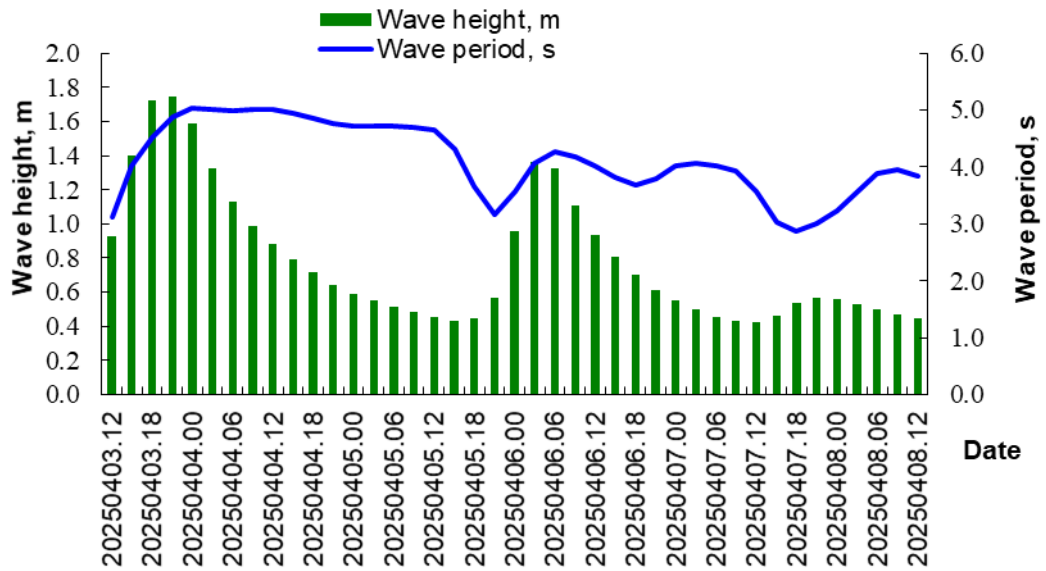


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250403.12	1.09	N	3.3	11	S
20250403.15	1.40	NW	3.9	10	SE
20250403.18	1.63	NW	4.4	9	SE
20250403.21	1.53	NW	4.7	8	SE
20250404.00	1.35	NW	4.8	7	SE
20250404.03	1.21	NW	4.7	7	SE
20250404.06	1.08	NW	4.5	7	SE
20250404.09	0.94	NW	4.3	5	SE
20250404.12	0.81	NW	4.2	4	SE
20250404.15	0.71	NW	4.2	3	S
20250404.18	0.61	NW	4.2	3	NE
20250404.21	0.54	NW	4.1	2	NE
20250405.00	0.49	N	4.2	2	N
20250405.03	0.46	N	4.2	4	NW
20250405.06	0.44	N	4.3	6	NW
20250405.09	0.42	NE	4.1	7	NW
20250405.12	0.43	NE	3.5	7	NW
20250405.15	0.47	E	2.9	9	NW
20250405.18	0.62	E	2.7	10	NW
20250405.21	0.81	E	3.1	8	NW
20250406.00	0.93	E	3.6	6	NW
20250406.03	1.10	E	4.0	9	N
20250406.06	1.06	E	4.2	12	S
20250406.09	0.95	E	4.3	9	SE
20250406.12	0.88	NE	4.0	7	SE
20250406.15	0.84	NE	3.7	6	S
20250406.18	0.76	NE	3.6	6	NE
20250406.21	0.66	NE	3.6	5	E
20250407.00	0.57	NE	3.5	4	E
20250407.03	0.51	NE	3.5	3	NE
20250407.06	0.45	NE	3.6	2	NW
20250407.09	0.41	NE	3.8	3	NW
20250407.12	0.39	NE	3.8	4	NW
20250407.15	0.38	E	3.4	4	N
20250407.18	0.40	E	3.0	4	W
20250407.21	0.44	E	3.0	4	W
20250408.00	0.47	E	3.1	4	W
20250408.03	0.48	E	3.2	4	W
20250408.06	0.48	E	3.4	3	W
20250408.09	0.46	E	3.6	3	SW
20250408.12	0.44	E	3.8	2	E

Wind condition in the Aktau

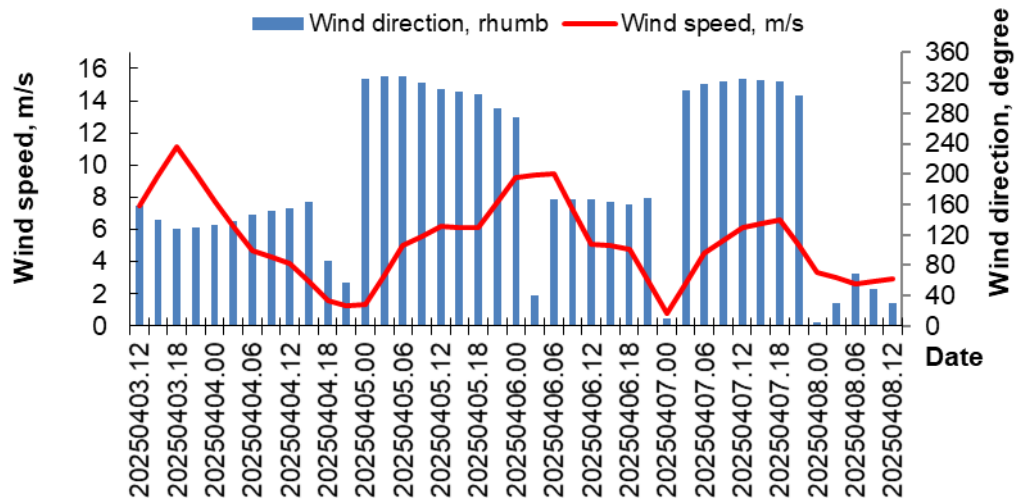


Wave condition in the Aktau

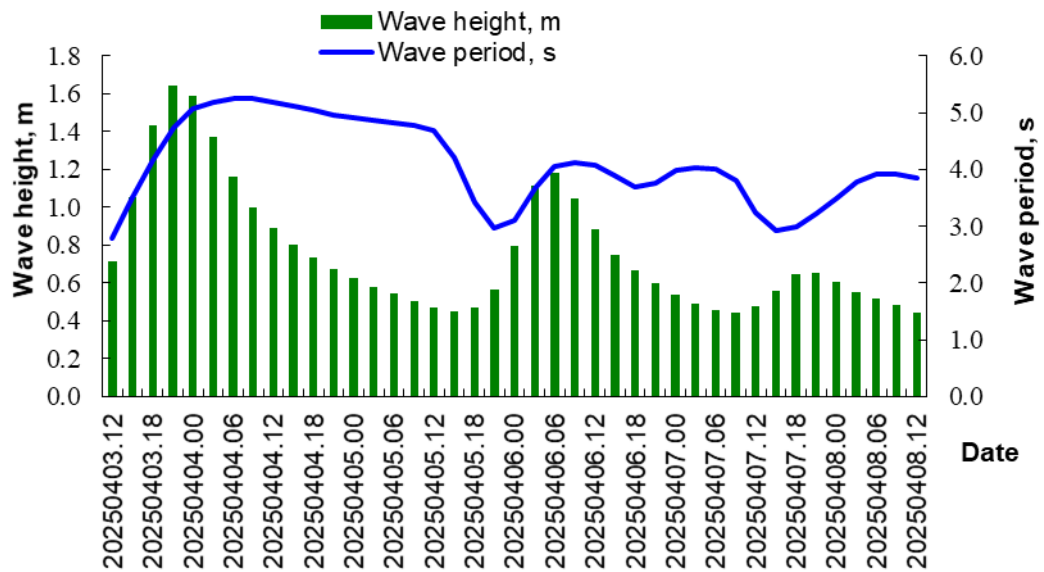


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250403.12	0.93	NW	3.1	10	SE
20250403.15	1.40	NW	4.0	10	SE
20250403.18	1.72	NW	4.5	11	SE
20250403.21	1.74	NW	4.9	10	SE
20250404.00	1.59	NW	5.0	8	SE
20250404.03	1.33	NW	5.0	7	SE
20250404.06	1.13	NW	5.0	5	SE
20250404.09	0.99	NW	5.0	4	SE
20250404.12	0.88	NW	5.0	4	SE
20250404.15	0.79	NW	4.9	3	S
20250404.18	0.71	NW	4.8	2	E
20250404.21	0.64	NW	4.8	2	NE
20250405.00	0.59	NW	4.7	1	NW
20250405.03	0.55	N	4.7	3	NW
20250405.06	0.51	N	4.7	5	NW
20250405.09	0.48	N	4.7	6	NW
20250405.12	0.45	N	4.7	6	NW
20250405.15	0.43	NE	4.3	6	NW
20250405.18	0.45	NE	3.6	5	NW
20250405.21	0.57	NE	3.2	10	W
20250406.00	0.95	E	3.6	14	N
20250406.03	1.36	E	4.1	11	NE
20250406.06	1.32	NE	4.3	9	S
20250406.09	1.11	NE	4.2	8	S
20250406.12	0.94	NE	4.0	6	SE
20250406.15	0.81	NE	3.8	6	S
20250406.18	0.70	NE	3.7	5	E
20250406.21	0.61	NE	3.8	3	E
20250407.00	0.55	NE	4.0	1	S
20250407.03	0.50	NE	4.1	3	N
20250407.06	0.46	NE	4.0	4	NW
20250407.09	0.43	NE	3.9	5	NW
20250407.12	0.42	NE	3.6	5	NW
20250407.15	0.46	E	3.0	6	NW
20250407.18	0.53	E	2.9	6	NW
20250407.21	0.57	E	3.0	5	NW
20250408.00	0.56	E	3.2	4	NW
20250408.03	0.53	E	3.6	2	NW
20250408.06	0.50	E	3.9	1	NE
20250408.09	0.47	E	4.0	2	NE
20250408.12	0.45	E	3.8	3	N

Wind condition in the Peschanyi

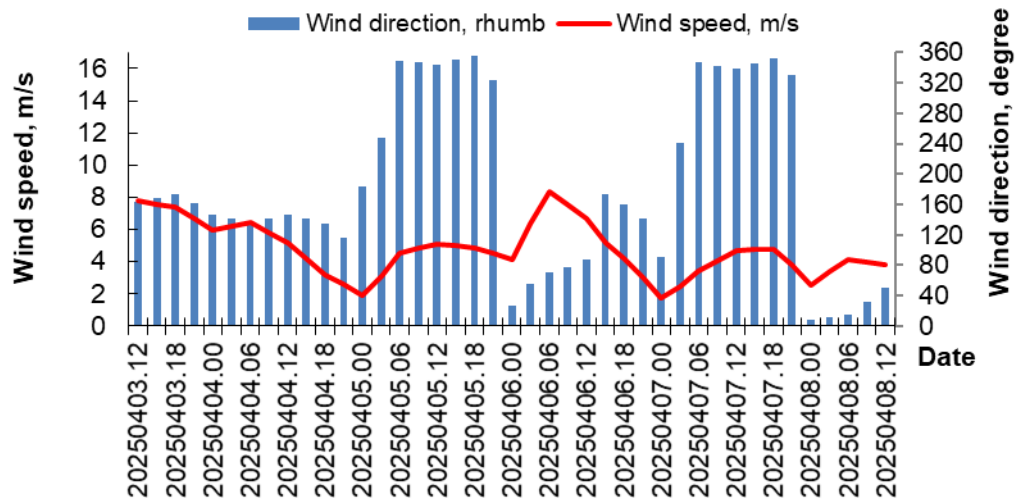


Wave condition in the Peschanyi

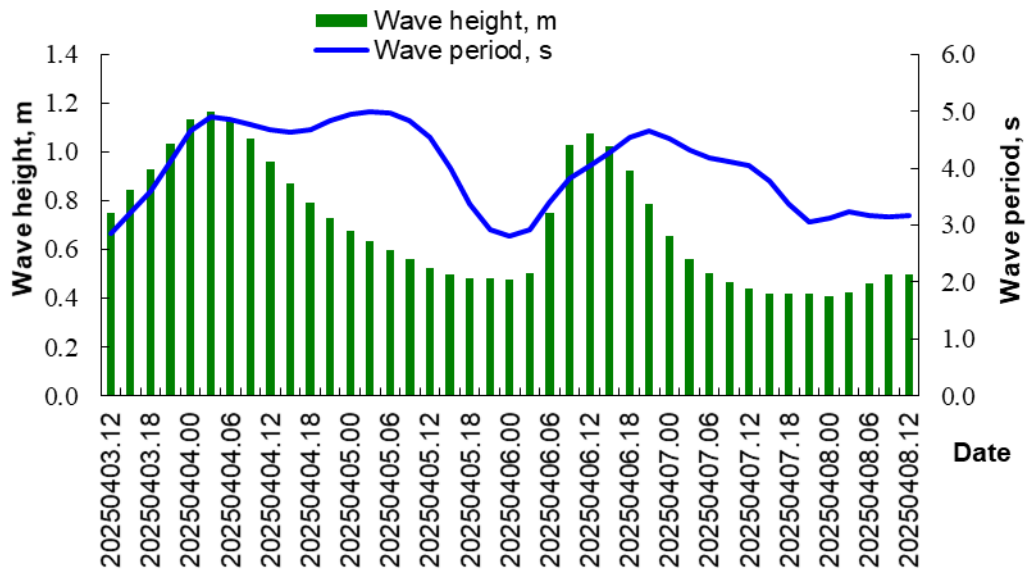


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250403.12	0.72	N	2.8	7	S
20250403.15	1.05	NW	3.5	9	SE
20250403.18	1.44	NW	4.2	11	SE
20250403.21	1.65	NW	4.7	9	SE
20250404.00	1.59	NW	5.1	8	SE
20250404.03	1.37	NW	5.2	6	SE
20250404.06	1.16	NW	5.2	5	SE
20250404.09	1.00	NW	5.3	4	SE
20250404.12	0.89	NW	5.2	4	SE
20250404.15	0.80	NW	5.1	3	S
20250404.18	0.73	NW	5.0	2	E
20250404.21	0.67	NW	5.0	1	NE
20250405.00	0.62	NW	4.9	1	NW
20250405.03	0.58	N	4.9	3	NW
20250405.06	0.54	N	4.8	5	NW
20250405.09	0.51	N	4.8	6	NW
20250405.12	0.47	N	4.7	6	NW
20250405.15	0.45	NE	4.2	6	NW
20250405.18	0.47	NE	3.4	6	NW
20250405.21	0.57	NE	3.0	8	W
20250406.00	0.80	NE	3.1	9	W
20250406.03	1.11	NE	3.7	9	NE
20250406.06	1.18	NE	4.1	9	S
20250406.09	1.05	NE	4.1	7	S
20250406.12	0.88	NE	4.1	5	S
20250406.15	0.75	NE	3.9	5	S
20250406.18	0.67	NE	3.7	5	S
20250406.21	0.60	NE	3.8	3	S
20250407.00	0.54	NE	4.0	1	N
20250407.03	0.49	NE	4.0	3	NW
20250407.06	0.46	NE	4.0	5	NW
20250407.09	0.44	NE	3.8	5	NW
20250407.12	0.48	NE	3.2	6	NW
20250407.15	0.56	E	2.9	6	NW
20250407.18	0.65	E	3.0	7	NW
20250407.21	0.65	E	3.2	5	NW
20250408.00	0.60	E	3.5	3	N
20250408.03	0.55	E	3.8	3	NE
20250408.06	0.52	E	3.9	3	E
20250408.09	0.48	E	3.9	3	NE
20250408.12	0.44	E	3.9	3	NE

Wind condition in the Fetisovo

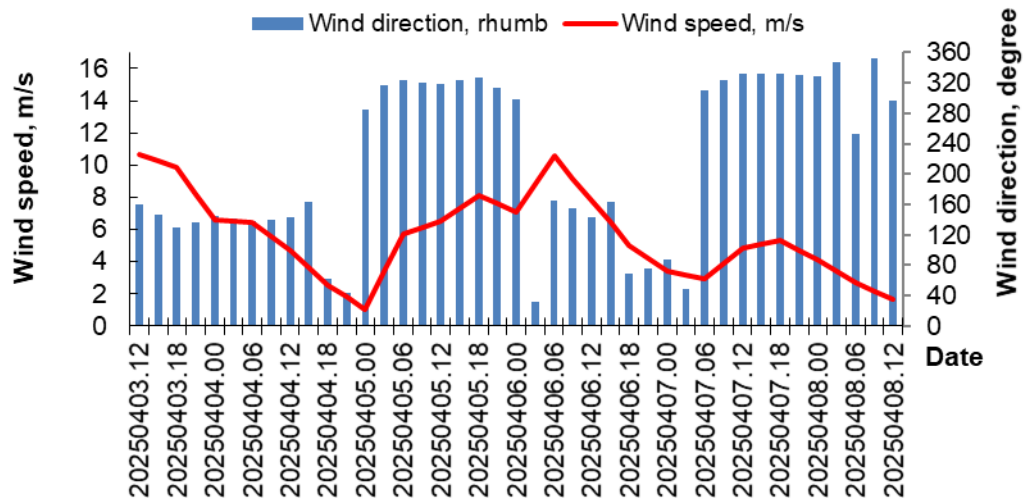


Wave condition in the Fetisovo

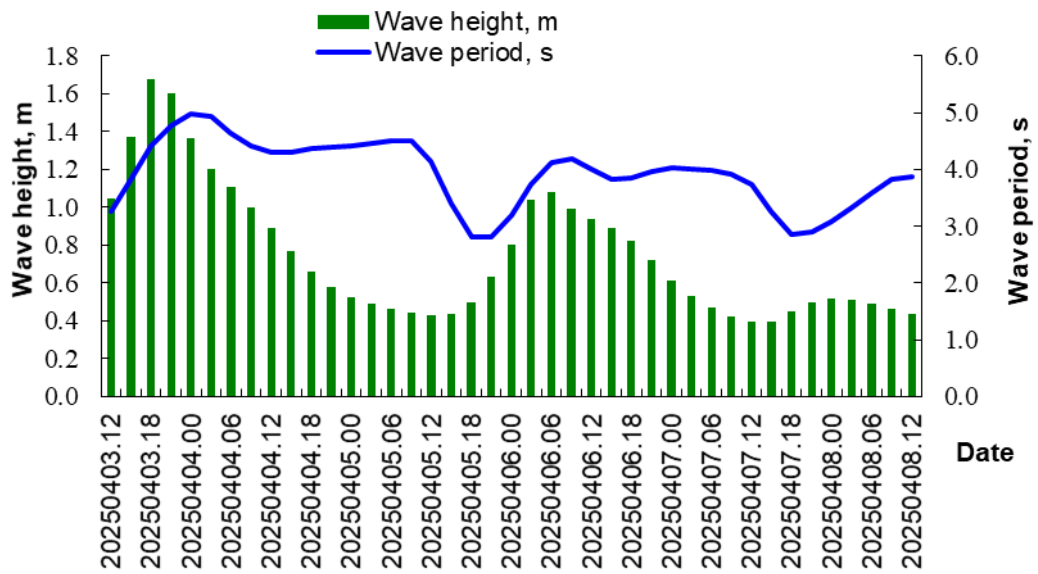


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250403.12	0.75	N	2.9	8	S
20250403.15	0.85	N	3.2	8	S
20250403.18	0.93	N	3.6	7	S
20250403.21	1.04	NW	4.1	7	S
20250404.00	1.13	NW	4.6	6	SE
20250404.03	1.16	NW	4.9	6	SE
20250404.06	1.14	NW	4.9	6	SE
20250404.09	1.06	NW	4.8	6	SE
20250404.12	0.96	NW	4.7	5	SE
20250404.15	0.87	NW	4.6	4	SE
20250404.18	0.79	NW	4.7	3	SE
20250404.21	0.73	NW	4.8	3	SE
20250405.00	0.68	NW	5.0	2	S
20250405.03	0.64	N	5.0	3	W
20250405.06	0.60	N	5.0	5	N
20250405.09	0.56	N	4.8	5	N
20250405.12	0.53	N	4.5	5	N
20250405.15	0.50	N	4.0	5	N
20250405.18	0.48	N	3.4	5	N
20250405.21	0.48	NE	2.9	5	NW
20250406.00	0.48	E	2.8	4	NE
20250406.03	0.50	NE	2.9	6	NE
20250406.06	0.75	NE	3.4	8	E
20250406.09	1.03	NE	3.8	8	E
20250406.12	1.07	NE	4.0	7	E
20250406.15	1.02	N	4.3	5	S
20250406.18	0.92	N	4.5	4	S
20250406.21	0.78	N	4.7	3	SE
20250407.00	0.65	N	4.5	2	E
20250407.03	0.56	N	4.3	2	SW
20250407.06	0.50	N	4.2	3	N
20250407.09	0.47	N	4.1	4	N
20250407.12	0.44	N	4.0	5	N
20250407.15	0.42	NE	3.8	5	N
20250407.18	0.42	NE	3.4	5	N
20250407.21	0.42	NE	3.1	4	NW
20250408.00	0.41	NE	3.1	3	N
20250408.03	0.42	NE	3.2	3	N
20250408.06	0.46	NE	3.2	4	N
20250408.09	0.49	NE	3.1	4	NE
20250408.12	0.50	NE	3.2	4	NE

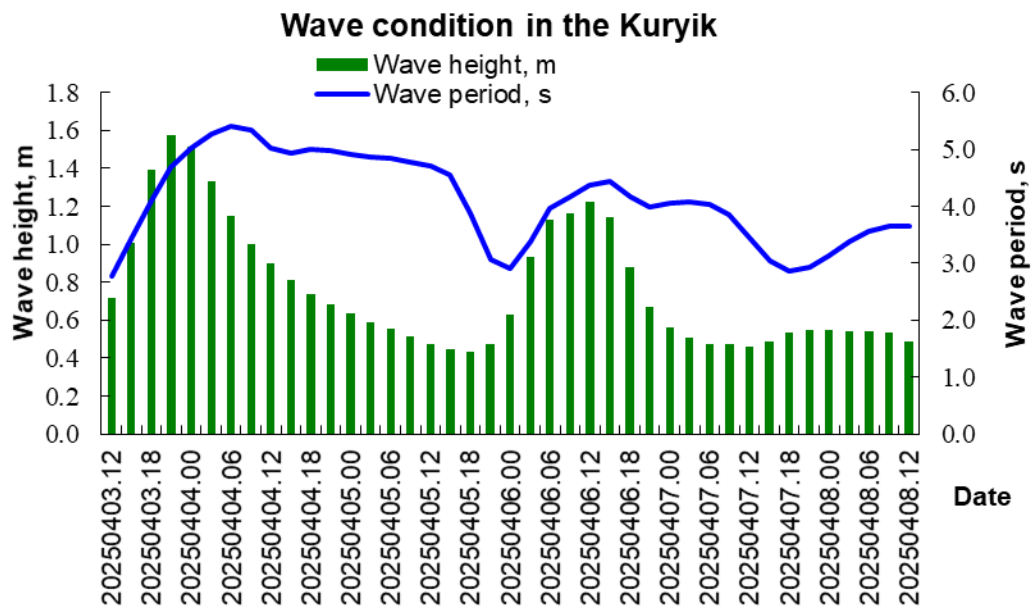
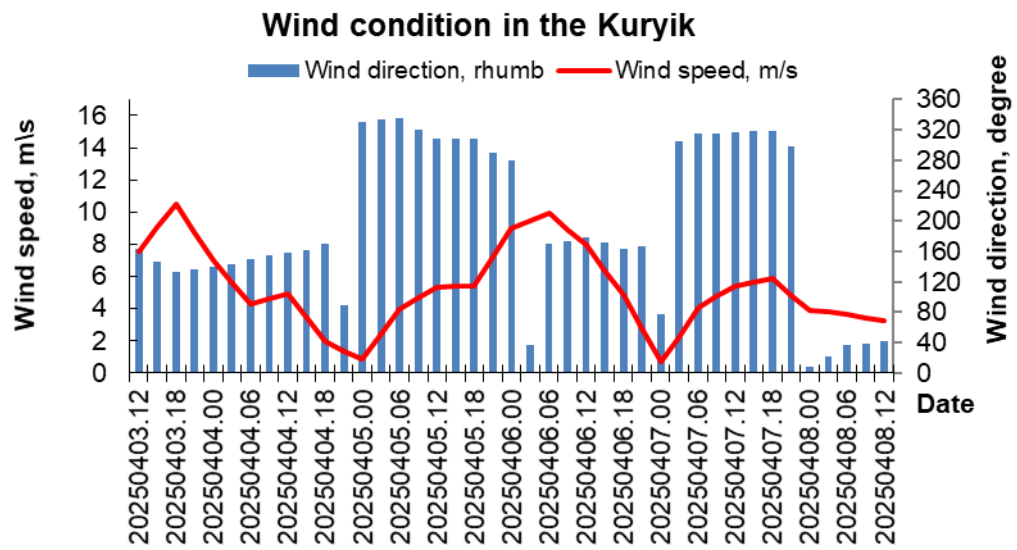
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250403.12	1.05	N	3.3	11	S
20250403.15	1.37	N	3.9	10	SE
20250403.18	1.67	NW	4.4	10	SE
20250403.21	1.61	NW	4.8	8	SE
20250404.00	1.36	NW	5.0	7	SE
20250404.03	1.21	NW	4.9	7	SE
20250404.06	1.11	NW	4.6	6	SE
20250404.09	1.00	NW	4.4	6	SE
20250404.12	0.89	NW	4.3	5	SE
20250404.15	0.77	NW	4.3	4	S
20250404.18	0.66	NW	4.4	3	NE
20250404.21	0.58	NW	4.4	2	NE
20250405.00	0.53	NW	4.4	1	W
20250405.03	0.49	N	4.5	3	NW
20250405.06	0.46	N	4.5	6	NW
20250405.09	0.44	N	4.5	6	NW
20250405.12	0.43	NE	4.2	6	NW
20250405.15	0.43	NE	3.4	7	NW
20250405.18	0.50	E	2.8	8	NW
20250405.21	0.63	E	2.8	8	NW
20250406.00	0.80	E	3.2	7	NW
20250406.03	1.04	E	3.7	9	NE
20250406.06	1.08	E	4.1	11	S
20250406.09	0.99	NE	4.2	9	SE
20250406.12	0.94	NE	4.0	8	SE
20250406.15	0.89	NE	3.8	6	S
20250406.18	0.82	NE	3.8	5	E
20250406.21	0.72	NE	4.0	4	E
20250407.00	0.61	NE	4.0	3	E
20250407.03	0.53	NE	4.0	3	NE
20250407.06	0.47	NE	4.0	3	NW
20250407.09	0.43	NE	3.9	4	NW
20250407.12	0.40	NE	3.7	5	NW
20250407.15	0.40	NE	3.3	5	NW
20250407.18	0.45	E	2.9	5	NW
20250407.21	0.50	E	2.9	5	NW
20250408.00	0.52	E	3.1	4	NW
20250408.03	0.51	E	3.3	3	N
20250408.06	0.49	E	3.6	3	W
20250408.09	0.46	E	3.8	2	N
20250408.12	0.44	E	3.9	2	NW



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250403.12	0.72	N	2.8	8	S
20250403.15	1.01	NW	3.4	9	SE
20250403.18	1.39	NW	4.1	11	SE
20250403.21	1.58	NW	4.7	9	SE
20250404.00	1.51	NW	5.0	7	SE
20250404.03	1.33	NW	5.3	6	SE
20250404.06	1.15	NW	5.4	4	SE
20250404.09	1.00	NW	5.3	5	SE
20250404.12	0.90	NW	5.0	5	S
20250404.15	0.81	NW	4.9	3	S
20250404.18	0.74	NW	5.0	2	S
20250404.21	0.68	NW	5.0	1	E
20250405.00	0.63	NW	4.9	1	NW
20250405.03	0.59	N	4.9	2	NW
20250405.06	0.55	N	4.8	4	NW
20250405.09	0.51	N	4.8	5	NW
20250405.12	0.48	N	4.7	5	NW
20250405.15	0.44	N	4.6	5	NW
20250405.18	0.43	NE	3.9	5	NW
20250405.21	0.47	NE	3.1	7	W
20250406.00	0.63	E	2.9	9	W
20250406.03	0.94	NE	3.4	9	NE
20250406.06	1.13	NE	4.0	10	S
20250406.09	1.16	NE	4.2	9	S
20250406.12	1.23	NE	4.4	8	S
20250406.15	1.14	NE	4.5	6	S
20250406.18	0.88	NE	4.2	5	S
20250406.21	0.67	NE	4.0	3	S
20250407.00	0.56	NE	4.1	1	E
20250407.03	0.51	NE	4.1	2	NW
20250407.06	0.47	NE	4.0	4	NW
20250407.09	0.47	NE	3.9	5	NW
20250407.12	0.46	NE	3.5	5	NW
20250407.15	0.49	E	3.1	6	NW
20250407.18	0.53	E	2.9	6	NW
20250407.21	0.55	E	2.9	5	NW
20250408.00	0.55	E	3.1	4	N
20250408.03	0.54	E	3.4	4	N
20250408.06	0.54	E	3.6	4	NE
20250408.09	0.53	NE	3.6	3	NE
20250408.12	0.49	NE	3.7	3	NE

**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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