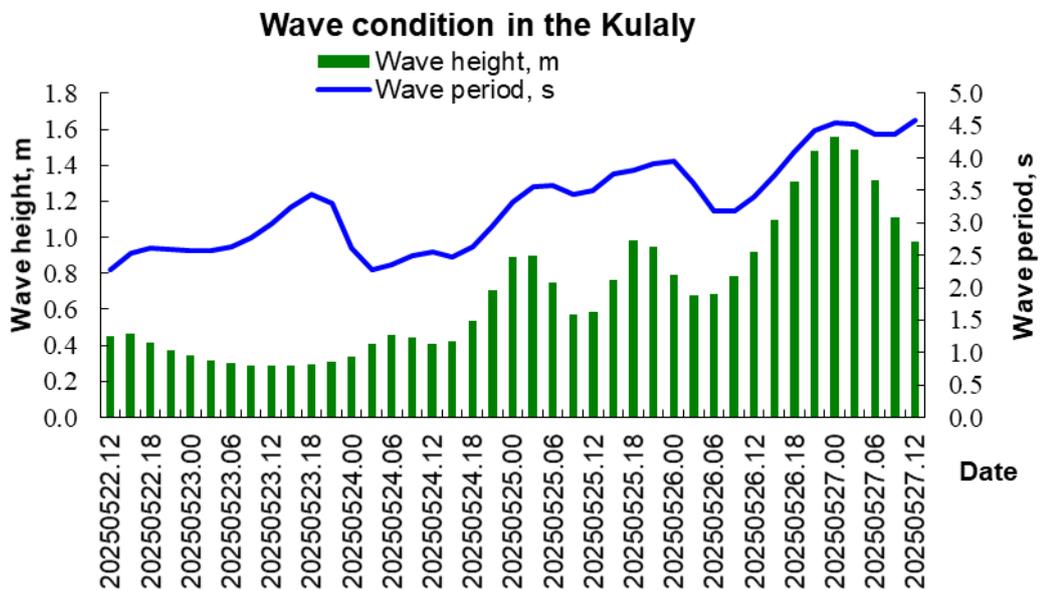
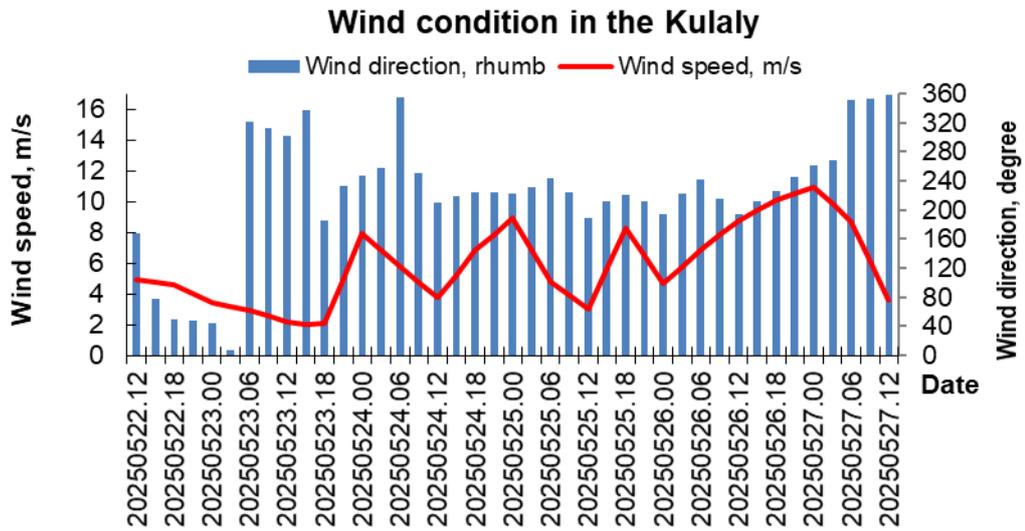




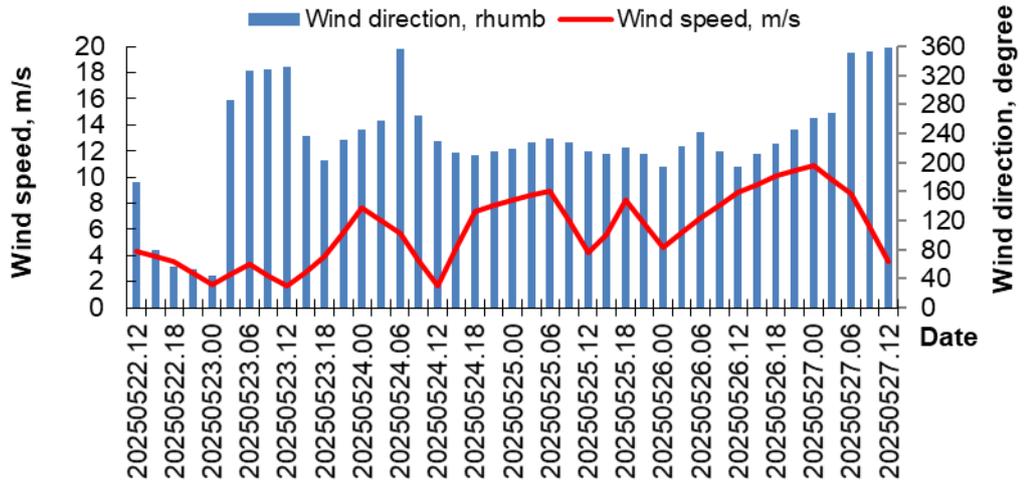
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 22 - 27, 2025.**

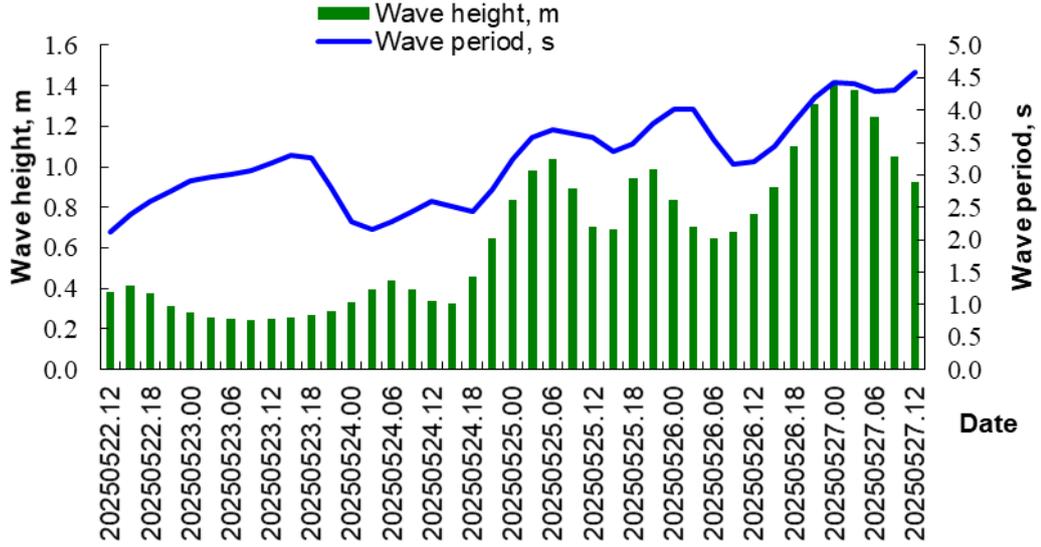


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250522.12	0.45	N	2.3	5	S
20250522.15	0.46	N	2.5	5	E
20250522.18	0.41	N	2.6	5	NE
20250522.21	0.37	N	2.6	4	NE
20250523.00	0.34	N	2.6	3	NE
20250523.03	0.32	N	2.6	3	N
20250523.06	0.30	N	2.6	3	NW
20250523.09	0.29	N	2.8	3	NW
20250523.12	0.29	N	3.0	2	NW
20250523.15	0.29	N	3.3	2	N
20250523.18	0.30	N	3.4	2	S
20250523.21	0.31	NE	3.3	5	SW
20250524.00	0.34	NE	2.6	8	SW
20250524.03	0.41	S	2.3	7	W
20250524.06	0.46	S	2.4	6	N
20250524.09	0.45	S	2.5	5	W
20250524.12	0.41	SW	2.5	4	SW
20250524.15	0.42	SW	2.5	5	SW
20250524.18	0.54	SW	2.6	7	SW
20250524.21	0.70	SW	2.9	8	SW
20250525.00	0.89	SW	3.3	9	SW
20250525.03	0.90	SW	3.6	7	SW
20250525.06	0.75	SW	3.6	5	SW
20250525.09	0.57	SW	3.4	4	SW
20250525.12	0.59	SW	3.5	3	S
20250525.15	0.76	SW	3.8	6	SW
20250525.18	0.98	SW	3.8	8	SW
20250525.21	0.95	SW	3.9	6	SW
20250526.00	0.79	SW	3.9	5	S
20250526.03	0.68	SW	3.6	6	SW
20250526.06	0.69	SW	3.2	7	SW
20250526.09	0.78	SW	3.2	8	SW
20250526.12	0.92	SW	3.4	9	S
20250526.15	1.10	SW	3.7	9	SW
20250526.18	1.31	SW	4.1	10	SW
20250526.21	1.48	SW	4.4	11	SW
20250527.00	1.56	SW	4.5	11	W
20250527.03	1.48	SW	4.5	10	W
20250527.06	1.32	S	4.4	9	N
20250527.09	1.11	S	4.4	6	N
20250527.12	0.98	S	4.6	4	N

Wind condition in the Fort-Shevchenko

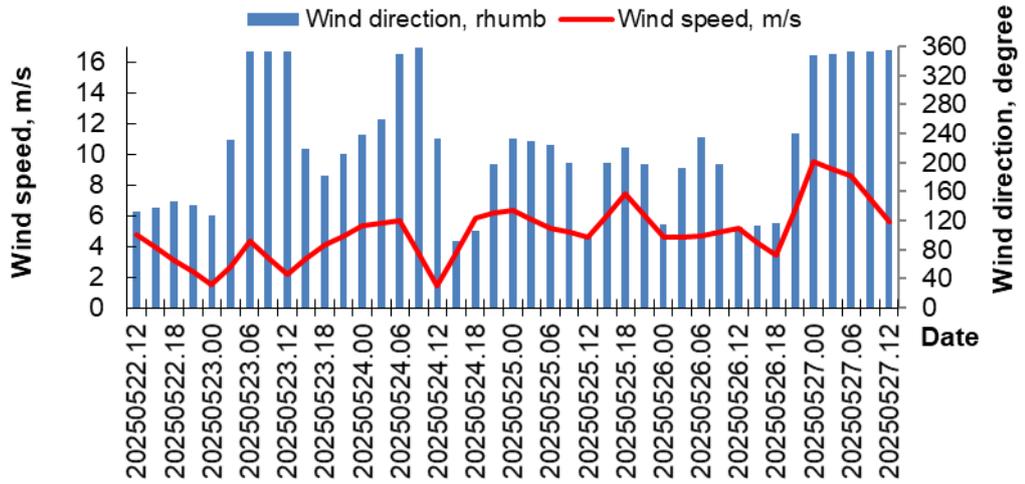


Wave condition in the Fort-Shevchenko

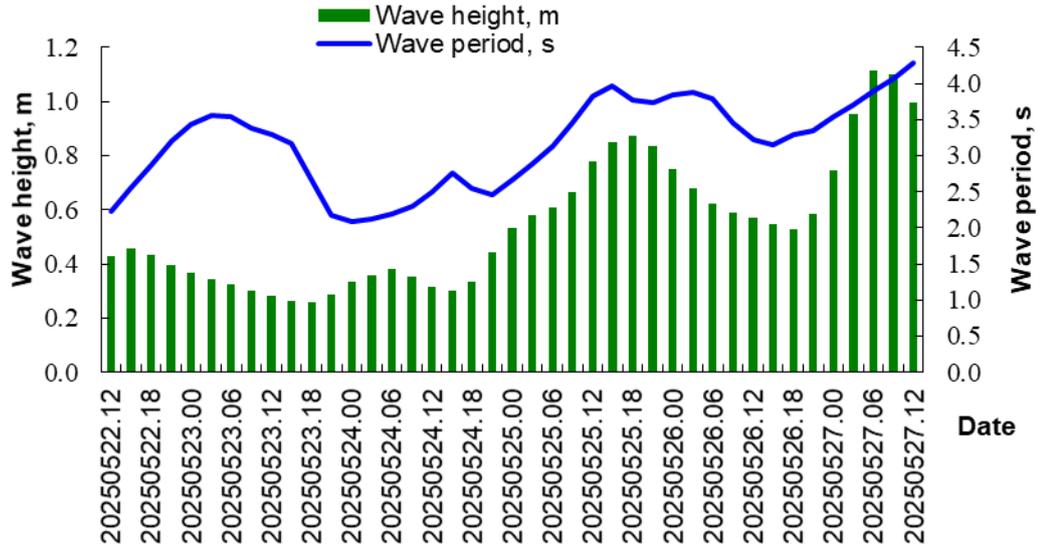


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250522.12	0.38	N	2.1	4	S
20250522.15	0.42	N	2.4	4	E
20250522.18	0.38	N	2.6	4	NE
20250522.21	0.31	NW	2.7	3	NE
20250523.00	0.28	NW	2.9	2	NE
20250523.03	0.26	NW	3.0	3	W
20250523.06	0.25	NW	3.0	3	NW
20250523.09	0.24	N	3.1	2	NW
20250523.12	0.25	N	3.2	2	NW
20250523.15	0.26	N	3.3	3	SW
20250523.18	0.27	N	3.3	4	SW
20250523.21	0.29	N	2.8	6	SW
20250524.00	0.33	NW	2.3	8	SW
20250524.03	0.39	SW	2.2	7	W
20250524.06	0.44	SW	2.3	6	N
20250524.09	0.40	SW	2.4	4	W
20250524.12	0.34	SW	2.6	2	SW
20250524.15	0.32	SW	2.5	5	SW
20250524.18	0.46	SW	2.4	7	SW
20250524.21	0.65	SW	2.8	8	SW
20250525.00	0.84	SW	3.2	8	SW
20250525.03	0.98	SW	3.6	9	SW
20250525.06	1.04	SW	3.7	9	SW
20250525.09	0.89	SW	3.6	7	SW
20250525.12	0.71	SW	3.6	4	SW
20250525.15	0.69	SW	3.4	6	SW
20250525.18	0.94	SW	3.5	8	SW
20250525.21	0.98	SW	3.8	6	SW
20250526.00	0.84	SW	4.0	5	S
20250526.03	0.71	SW	4.0	6	SW
20250526.06	0.65	SW	3.5	7	SW
20250526.09	0.68	SW	3.2	8	SW
20250526.12	0.77	SW	3.2	9	S
20250526.15	0.90	SW	3.4	9	SW
20250526.18	1.10	SW	3.8	10	SW
20250526.21	1.31	SW	4.2	11	SW
20250527.00	1.41	SW	4.4	11	W
20250527.03	1.38	SW	4.4	10	W
20250527.06	1.25	SW	4.3	9	N
20250527.09	1.05	SW	4.3	6	N
20250527.12	0.93	SW	4.6	4	N

Wind condition in the Aktau

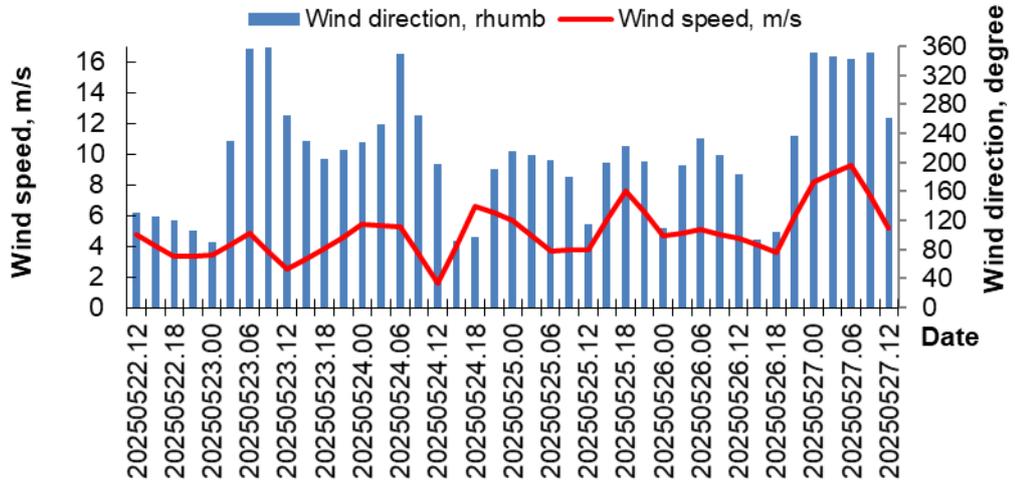


Wave condition in the Aktau

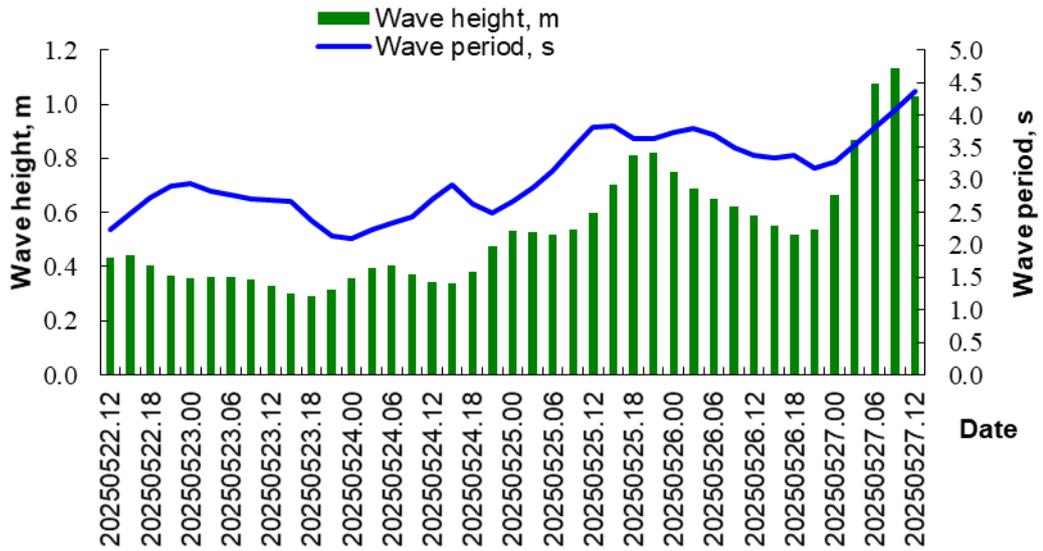


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250522.12	0.43	NW	2.2	5	SE
20250522.15	0.46	NW	2.5	4	SE
20250522.18	0.43	NW	2.9	3	SE
20250522.21	0.40	NW	3.2	2	SE
20250523.00	0.37	NW	3.4	2	SE
20250523.03	0.34	W	3.6	3	SW
20250523.06	0.32	W	3.5	4	N
20250523.09	0.30	W	3.4	3	N
20250523.12	0.28	W	3.3	2	N
20250523.15	0.26	NW	3.2	3	SW
20250523.18	0.26	NW	2.6	4	S
20250523.21	0.29	W	2.2	5	SW
20250524.00	0.33	W	2.1	5	SW
20250524.03	0.36	SW	2.1	6	W
20250524.06	0.38	SW	2.2	6	N
20250524.09	0.36	SW	2.3	4	N
20250524.12	0.32	SW	2.5	1	SW
20250524.15	0.30	S	2.8	4	E
20250524.18	0.33	SW	2.5	6	E
20250524.21	0.44	SW	2.5	6	S
20250525.00	0.53	SW	2.7	6	SW
20250525.03	0.58	SW	2.9	6	SW
20250525.06	0.61	SW	3.1	5	SW
20250525.09	0.66	W	3.4	5	S
20250525.12	0.78	W	3.8	5	E
20250525.15	0.85	W	4.0	6	S
20250525.18	0.88	W	3.8	7	SW
20250525.21	0.84	W	3.7	6	S
20250526.00	0.75	W	3.8	5	SE
20250526.03	0.68	W	3.9	5	S
20250526.06	0.62	W	3.8	5	SW
20250526.09	0.59	SW	3.5	5	S
20250526.12	0.57	W	3.2	5	E
20250526.15	0.55	W	3.2	4	SE
20250526.18	0.53	W	3.3	3	SE
20250526.21	0.59	W	3.3	6	SW
20250527.00	0.74	SW	3.5	9	N
20250527.03	0.95	SW	3.7	9	N
20250527.06	1.11	SW	3.9	9	N
20250527.09	1.10	SW	4.1	7	N
20250527.12	1.00	SW	4.3	6	N

Wind condition in the Peschanyi

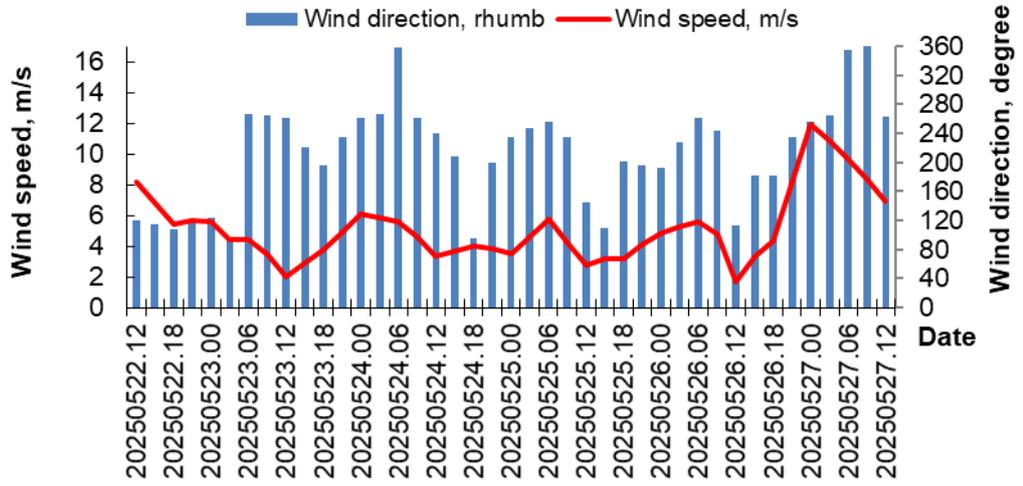


Wave condition in the Peschanyi

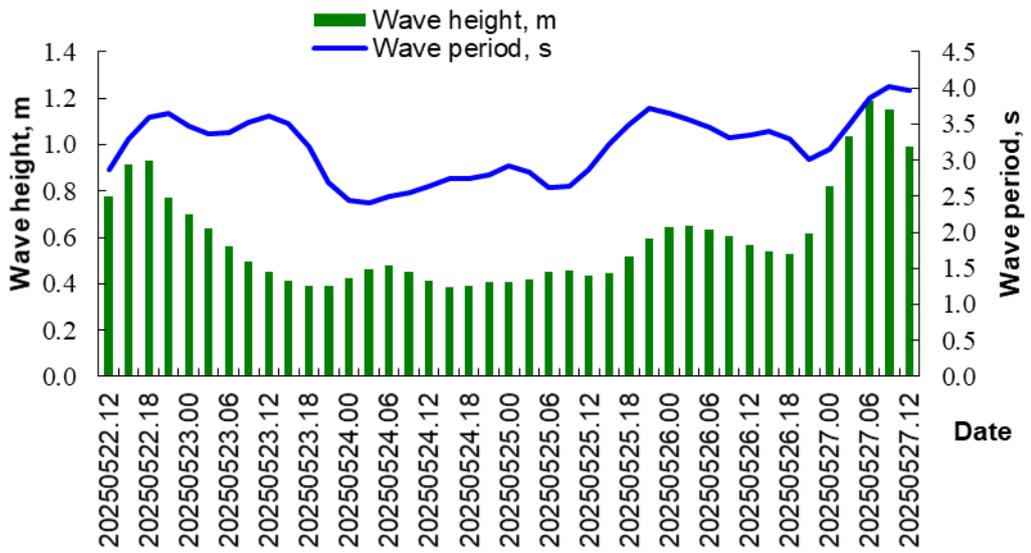


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250522.12	0.43	NW	2.2	5	SE
20250522.15	0.44	NW	2.5	4	SE
20250522.18	0.40	NW	2.7	3	SE
20250522.21	0.37	NW	2.9	3	E
20250523.00	0.36	W	2.9	3	E
20250523.03	0.36	W	2.8	4	SW
20250523.06	0.36	W	2.8	5	N
20250523.09	0.35	W	2.7	4	N
20250523.12	0.33	W	2.7	3	W
20250523.15	0.30	W	2.7	3	SW
20250523.18	0.29	W	2.4	4	SW
20250523.21	0.31	W	2.1	5	SW
20250524.00	0.36	W	2.1	5	SW
20250524.03	0.40	SW	2.2	5	W
20250524.06	0.40	SW	2.3	5	N
20250524.09	0.37	SW	2.4	3	W
20250524.12	0.35	S	2.7	2	S
20250524.15	0.34	S	2.9	4	E
20250524.18	0.38	SW	2.6	7	E
20250524.21	0.48	SW	2.5	6	S
20250525.00	0.53	SW	2.7	6	SW
20250525.03	0.53	SW	2.9	5	SW
20250525.06	0.52	SW	3.2	4	SW
20250525.09	0.54	SW	3.5	4	S
20250525.12	0.60	W	3.8	4	SE
20250525.15	0.70	W	3.8	6	S
20250525.18	0.81	W	3.6	8	SW
20250525.21	0.82	W	3.6	6	S
20250526.00	0.75	W	3.7	5	E
20250526.03	0.69	W	3.8	5	S
20250526.06	0.65	W	3.7	5	SW
20250526.09	0.62	W	3.5	5	SW
20250526.12	0.59	W	3.4	4	S
20250526.15	0.55	W	3.3	4	E
20250526.18	0.52	W	3.4	4	E
20250526.21	0.54	W	3.2	6	SW
20250527.00	0.66	SW	3.3	8	N
20250527.03	0.87	SW	3.5	9	N
20250527.06	1.08	SW	3.8	9	N
20250527.09	1.13	S	4.1	7	N
20250527.12	1.03	S	4.4	5	W

Wind condition in the Fetisovo

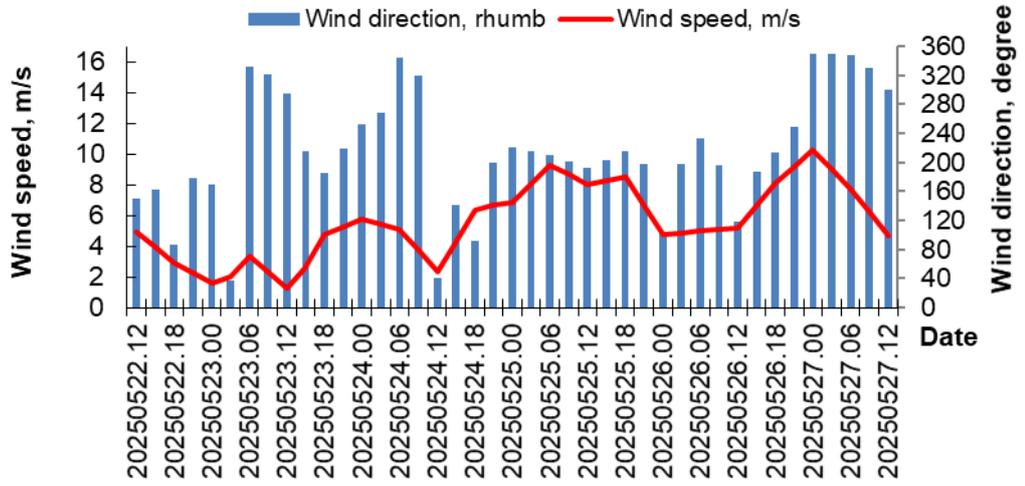


Wave condition in the Fetisovo

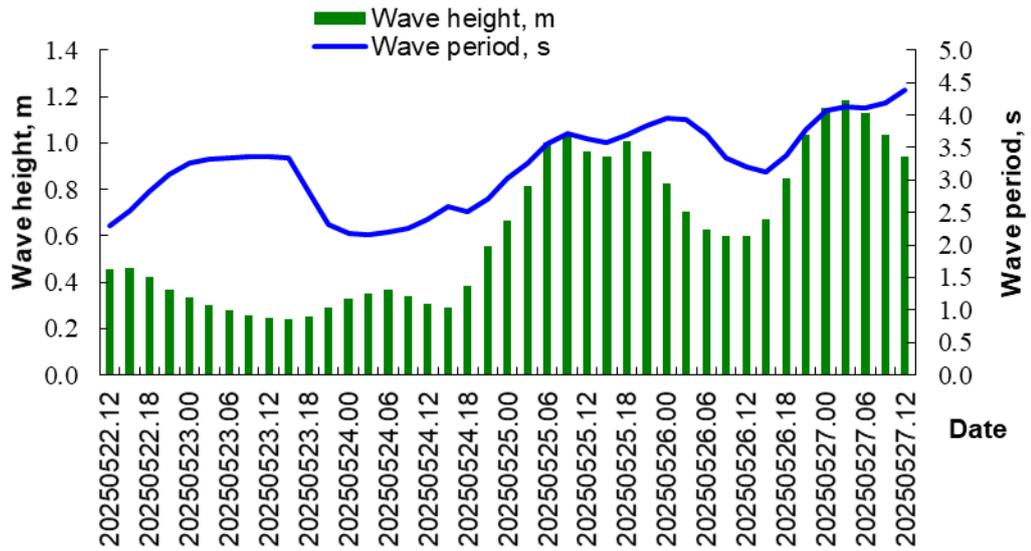


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250522.12	0.77	NW	2.9	8	SE
20250522.15	0.91	NW	3.3	7	SE
20250522.18	0.93	NW	3.6	5	E
20250522.21	0.77	NW	3.7	6	SE
20250523.00	0.70	NW	3.5	6	SE
20250523.03	0.64	NW	3.4	4	E
20250523.06	0.56	W	3.4	4	W
20250523.09	0.50	W	3.5	3	W
20250523.12	0.45	W	3.6	2	W
20250523.15	0.41	W	3.5	3	SW
20250523.18	0.39	W	3.2	4	S
20250523.21	0.39	W	2.7	5	SW
20250524.00	0.42	W	2.4	6	W
20250524.03	0.46	SW	2.4	6	W
20250524.06	0.48	S	2.5	6	N
20250524.09	0.45	S	2.6	5	W
20250524.12	0.41	S	2.6	3	SW
20250524.15	0.39	S	2.7	4	SW
20250524.18	0.39	S	2.7	4	E
20250524.21	0.41	SW	2.8	4	S
20250525.00	0.41	SW	2.9	3	SW
20250525.03	0.42	SW	2.8	5	W
20250525.06	0.45	SW	2.6	6	W
20250525.09	0.46	SW	2.6	4	SW
20250525.12	0.43	SW	2.9	3	SE
20250525.15	0.45	W	3.2	3	E
20250525.18	0.52	W	3.5	3	S
20250525.21	0.59	W	3.7	4	S
20250526.00	0.64	W	3.7	5	S
20250526.03	0.65	W	3.6	5	SW
20250526.06	0.63	W	3.4	6	W
20250526.09	0.61	W	3.3	5	SW
20250526.12	0.57	W	3.4	2	SE
20250526.15	0.54	W	3.4	3	S
20250526.18	0.53	W	3.3	4	S
20250526.21	0.62	W	3.0	8	SW
20250527.00	0.82	SW	3.1	12	W
20250527.03	1.04	SW	3.5	11	W
20250527.06	1.19	SW	3.9	10	N
20250527.09	1.15	S	4.0	8	N
20250527.12	0.99	S	4.0	7	W

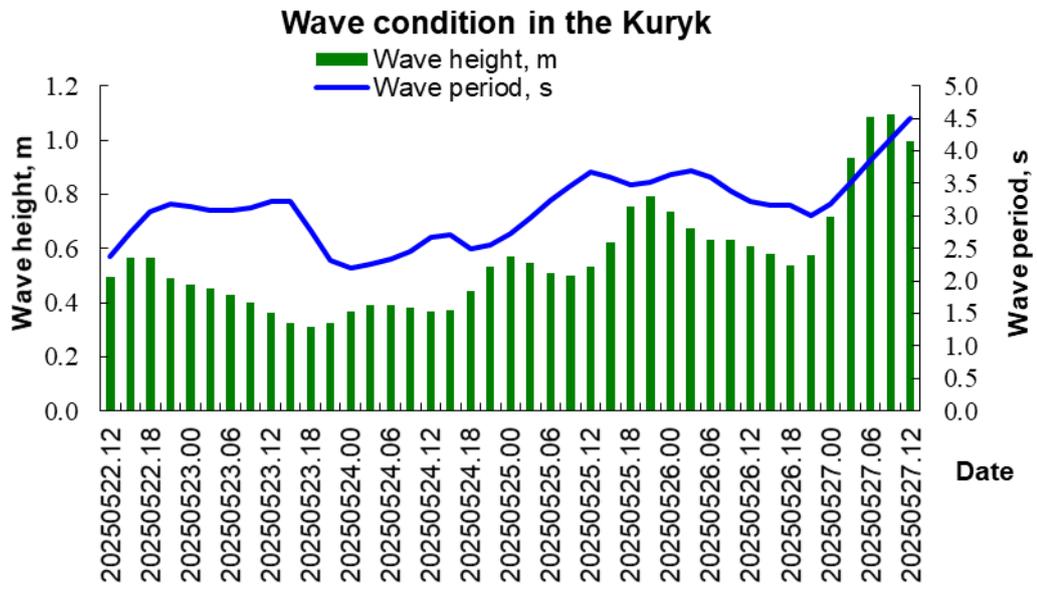
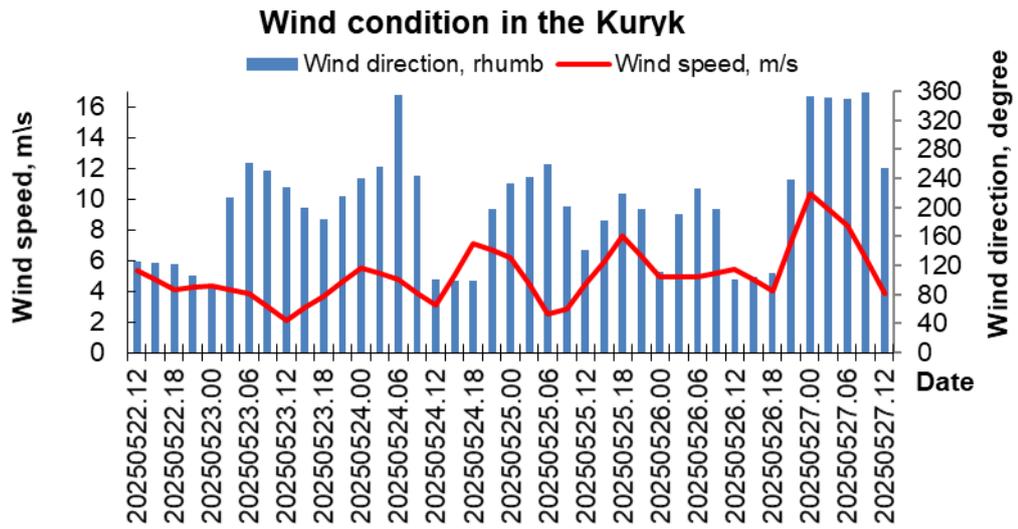
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250522.12	0.45	NW	2.3	5	SE
20250522.15	0.46	NW	2.5	4	S
20250522.18	0.42	NW	2.8	3	E
20250522.21	0.37	NW	3.1	2	S
20250523.00	0.33	NW	3.3	2	S
20250523.03	0.30	NW	3.3	2	NE
20250523.06	0.28	NW	3.3	3	NW
20250523.09	0.26	NW	3.4	2	NW
20250523.12	0.24	NW	3.4	1	NW
20250523.15	0.24	NW	3.4	3	SW
20250523.18	0.25	NW	2.8	5	S
20250523.21	0.29	NW	2.3	5	SW
20250524.00	0.33	W	2.2	6	W
20250524.03	0.35	W	2.2	5	W
20250524.06	0.37	SW	2.2	5	N
20250524.09	0.34	SW	2.2	4	NW
20250524.12	0.31	SW	2.4	2	NE
20250524.15	0.29	SW	2.6	4	SE
20250524.18	0.38	SW	2.5	6	E
20250524.21	0.55	W	2.7	7	S
20250525.00	0.67	W	3.0	7	SW
20250525.03	0.82	SW	3.3	8	SW
20250525.06	1.00	SW	3.6	9	SW
20250525.09	1.04	SW	3.7	9	S
20250525.12	0.96	SW	3.6	8	S
20250525.15	0.94	SW	3.6	8	SW
20250525.18	1.01	SW	3.7	9	SW
20250525.21	0.96	SW	3.8	7	S
20250526.00	0.83	SW	3.9	5	E
20250526.03	0.71	SW	3.9	5	S
20250526.06	0.63	SW	3.7	5	SW
20250526.09	0.60	SW	3.3	5	S
20250526.12	0.60	SW	3.2	5	SE
20250526.15	0.67	W	3.1	7	S
20250526.18	0.85	W	3.4	8	SW
20250526.21	1.04	SW	3.8	9	W
20250527.00	1.15	SW	4.1	10	N
20250527.03	1.18	SW	4.1	9	N
20250527.06	1.13	SW	4.1	8	N
20250527.09	1.03	SW	4.2	6	NW
20250527.12	0.94	S	4.4	5	NW



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250522.12	0.49	NW	2.4	5	SE
20250522.15	0.57	NW	2.7	5	SE
20250522.18	0.56	NW	3.1	4	SE
20250522.21	0.49	NW	3.2	4	E
20250523.00	0.47	W	3.1	4	E
20250523.03	0.45	W	3.1	4	SW
20250523.06	0.43	W	3.1	4	W
20250523.09	0.40	W	3.1	3	W
20250523.12	0.36	W	3.2	2	SW
20250523.15	0.33	W	3.2	3	S
20250523.18	0.31	W	2.8	4	S
20250523.21	0.33	W	2.3	5	SW
20250524.00	0.37	W	2.2	6	SW
20250524.03	0.39	SW	2.3	5	W
20250524.06	0.39	SW	2.3	5	N
20250524.09	0.38	S	2.5	4	SW
20250524.12	0.37	S	2.7	3	E
20250524.15	0.37	S	2.7	5	E
20250524.18	0.44	SW	2.5	7	E
20250524.21	0.53	W	2.5	7	S
20250525.00	0.57	SW	2.7	6	SW
20250525.03	0.55	SW	3.0	4	SW
20250525.06	0.51	SW	3.2	2	W
20250525.09	0.50	SW	3.4	3	S
20250525.12	0.53	W	3.7	4	SE
20250525.15	0.62	W	3.6	6	S
20250525.18	0.76	W	3.5	8	SW
20250525.21	0.79	W	3.5	6	S
20250526.00	0.73	W	3.6	5	E
20250526.03	0.67	W	3.7	5	S
20250526.06	0.63	W	3.6	5	SW
20250526.09	0.63	W	3.4	5	S
20250526.12	0.61	W	3.2	5	E
20250526.15	0.58	W	3.2	5	E
20250526.18	0.53	W	3.2	4	E
20250526.21	0.57	W	3.0	7	SW
20250527.00	0.72	SW	3.2	10	N
20250527.03	0.93	SW	3.5	9	N
20250527.06	1.09	SW	3.9	8	N
20250527.09	1.10	S	4.2	6	N
20250527.12	1.00	S	4.5	4	W

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

Compiled by: Bazarbay L.B.

Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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