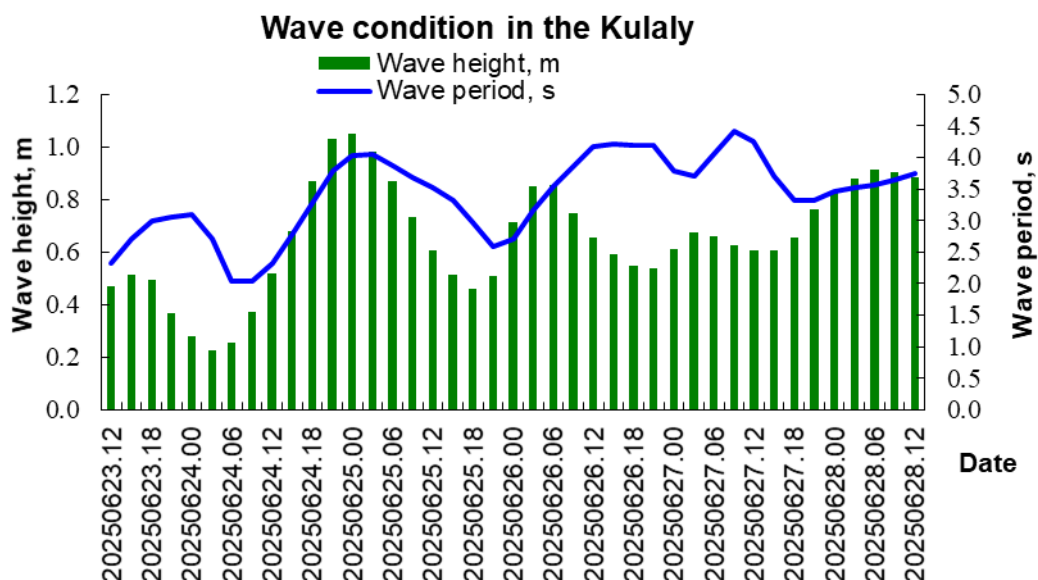
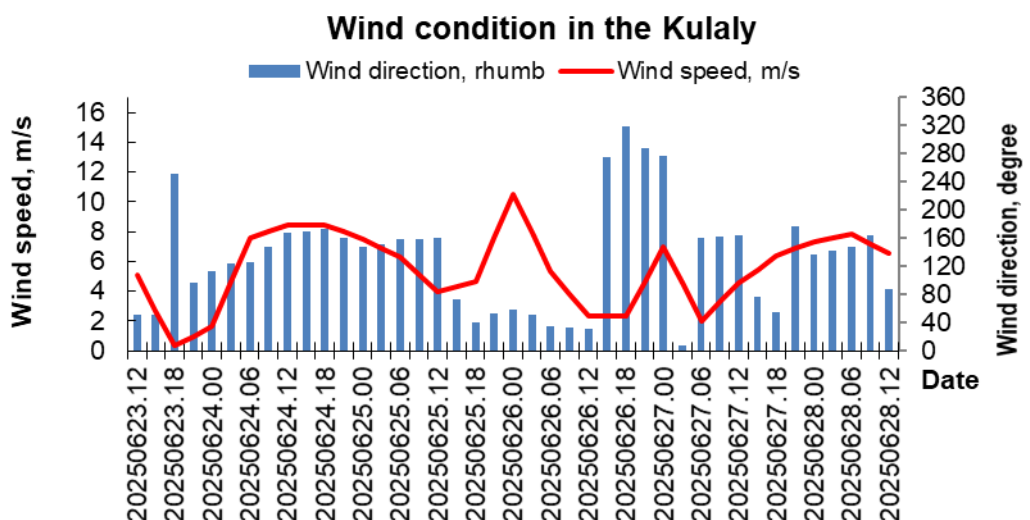




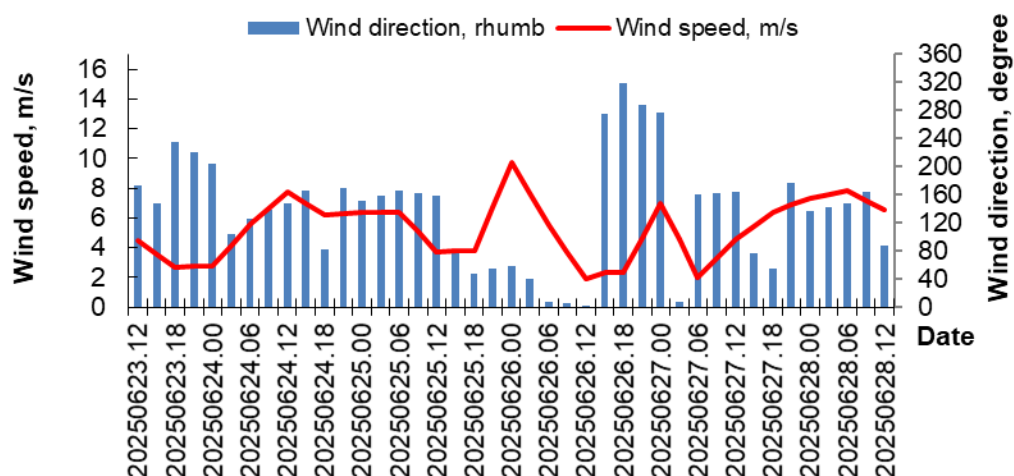
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 23 – 28, 2025.**

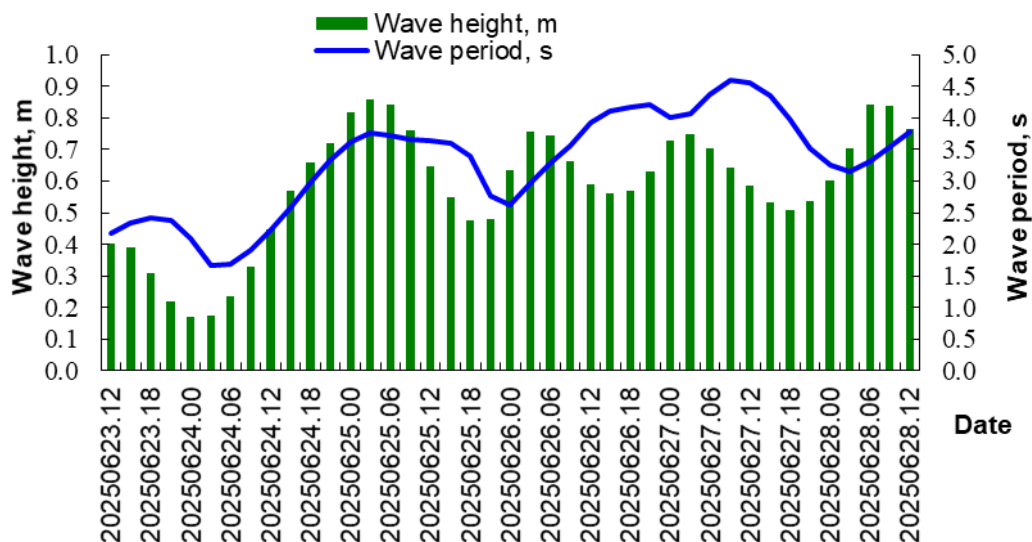


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250623.12	0.47	NE	2.3	5	NE
20250623.15	0.51	NE	2.7	3	NE
20250623.18	0.50	NE	3.0	0	W
20250623.21	0.37	NE	3.0	1	E
20250624.00	0.28	NE	3.1	2	SE
20250624.03	0.23	NE	2.7	5	SE
20250624.06	0.25	N	2.0	8	SE
20250624.09	0.37	N	2.0	8	SE
20250624.12	0.52	N	2.3	8	S
20250624.15	0.68	N	2.8	8	S
20250624.18	0.87	N	3.3	8	S
20250624.21	1.03	NW	3.8	8	S
20250625.00	1.05	NW	4.0	8	SE
20250625.03	0.98	NW	4.1	7	SE
20250625.06	0.87	NW	3.9	6	S
20250625.09	0.73	NW	3.7	5	S
20250625.12	0.61	NW	3.5	4	S
20250625.15	0.51	NW	3.3	4	E
20250625.18	0.46	N	3.0	5	NE
20250625.21	0.51	N	2.6	8	NE
20250626.00	0.71	NE	2.7	10	NE
20250626.03	0.85	NE	3.2	8	NE
20250626.06	0.85	NE	3.5	5	NE
20250626.09	0.75	NE	3.9	4	NE
20250626.12	0.66	NE	4.2	2	NE
20250626.15	0.59	NE	4.2	2	W
20250626.18	0.55	NE	4.2	2	NW
20250626.21	0.54	NE	4.2	5	W
20250627.00	0.61	E	3.8	7	W
20250627.03	0.67	E	3.7	5	N
20250627.06	0.66	E	4.0	2	S
20250627.09	0.63	E	4.4	3	S
20250627.12	0.61	E	4.2	5	S
20250627.15	0.61	E	3.7	5	E
20250627.18	0.66	NE	3.3	6	NE
20250627.21	0.76	NE	3.3	7	S
20250628.00	0.83	N	3.5	7	SE
20250628.03	0.88	N	3.5	8	SE
20250628.06	0.91	NW	3.6	8	SE
20250628.09	0.90	NW	3.6	7	S
20250628.12	0.88	NW	3.7	7	E

Wind condition in the Fort-Shevchenko

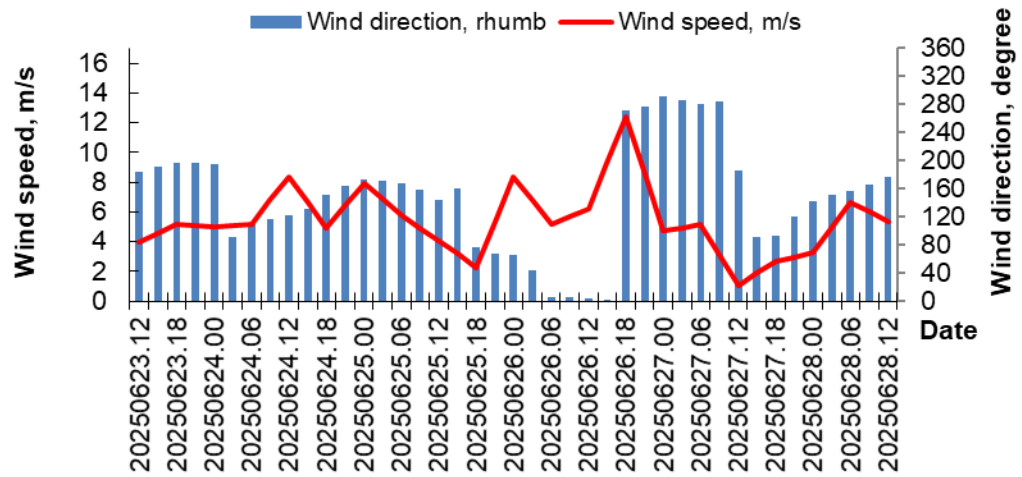


Wave condition in the Fort-Shevchenko

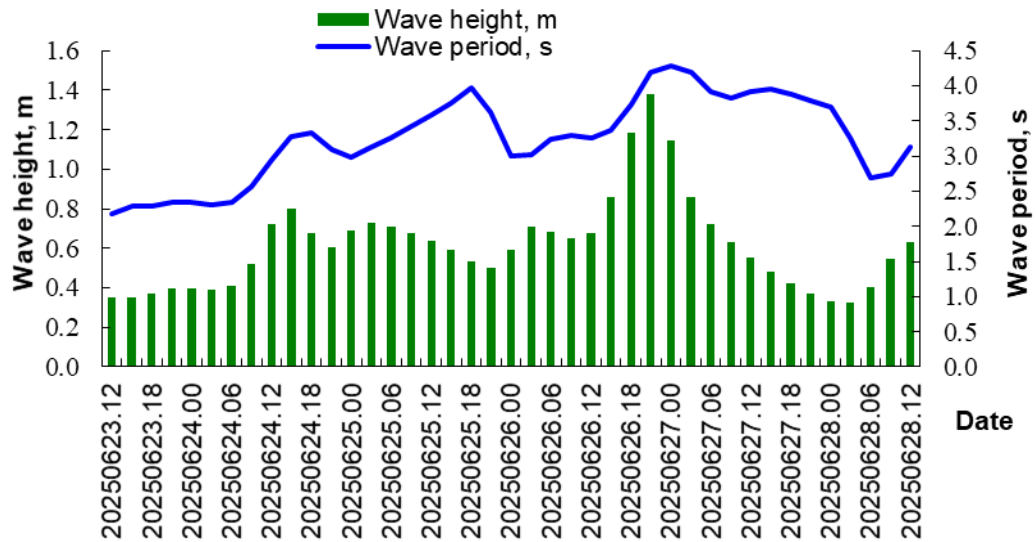


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250623.12	0.40	N	2.2	4	S
20250623.15	0.39	N	2.3	4	SE
20250623.18	0.31	N	2.4	3	SW
20250623.21	0.22	N	2.4	3	SW
20250624.00	0.17	N	2.1	3	SW
20250624.03	0.18	NW	1.7	4	E
20250624.06	0.23	W	1.7	6	SE
20250624.09	0.33	NW	1.9	7	SE
20250624.12	0.45	NW	2.2	8	SE
20250624.15	0.57	NW	2.6	7	S
20250624.18	0.66	NW	3.0	6	E
20250624.21	0.72	NW	3.3	6	S
20250625.00	0.82	NW	3.6	6	SE
20250625.03	0.86	NW	3.8	6	S
20250625.06	0.84	NW	3.7	6	S
20250625.09	0.76	NW	3.7	5	S
20250625.12	0.65	NW	3.6	4	S
20250625.15	0.55	NW	3.6	4	E
20250625.18	0.48	NW	3.4	4	NE
20250625.21	0.48	N	2.8	7	NE
20250626.00	0.64	N	2.6	10	NE
20250626.03	0.75	NE	3.0	8	NE
20250626.06	0.75	NE	3.3	6	N
20250626.09	0.66	NE	3.6	4	N
20250626.12	0.59	NE	3.9	2	N
20250626.15	0.56	NE	4.1	2	W
20250626.18	0.57	NE	4.2	2	NW
20250626.21	0.63	E	4.2	5	W
20250627.00	0.73	E	4.0	7	W
20250627.03	0.75	E	4.1	5	N
20250627.06	0.70	E	4.4	2	S
20250627.09	0.64	E	4.6	3	S
20250627.12	0.59	E	4.6	5	S
20250627.15	0.53	E	4.4	5	E
20250627.18	0.51	E	4.0	6	NE
20250627.21	0.54	NE	3.5	7	S
20250628.00	0.60	NE	3.2	7	SE
20250628.03	0.70	N	3.2	8	SE
20250628.06	0.84	NW	3.3	8	SE
20250628.09	0.84	NW	3.5	7	S
20250628.12	0.76	NW	3.8	7	E

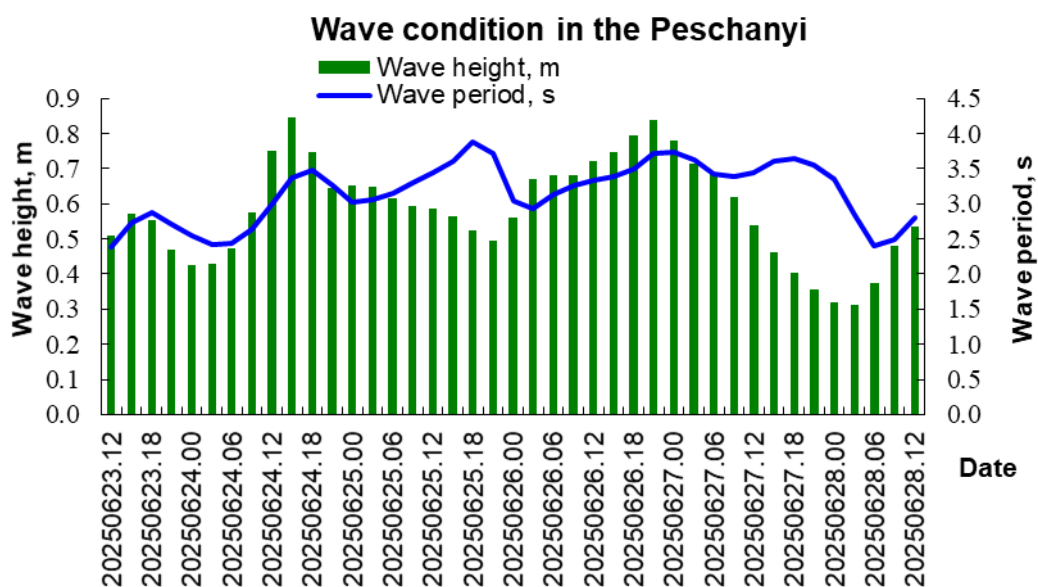
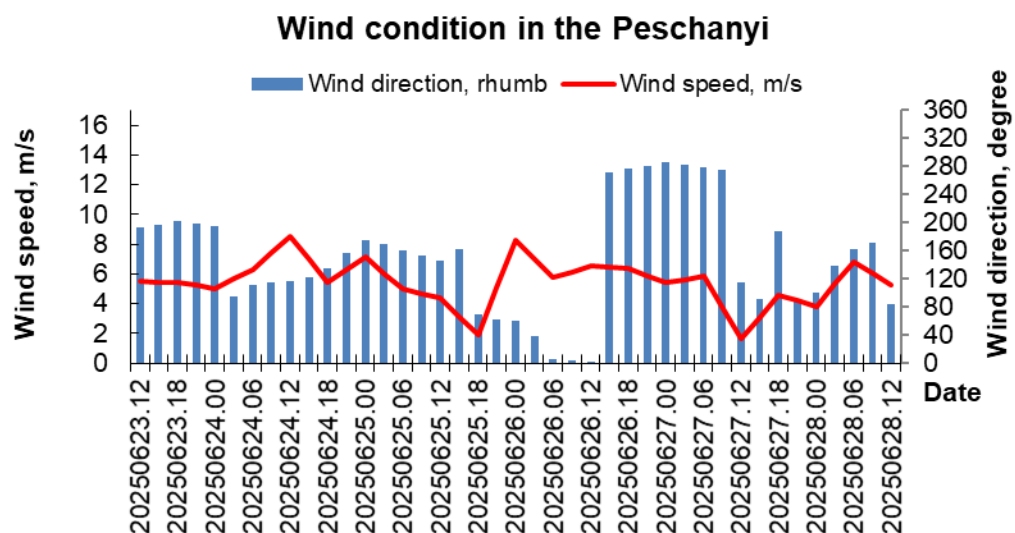
Wind condition in the Aktau



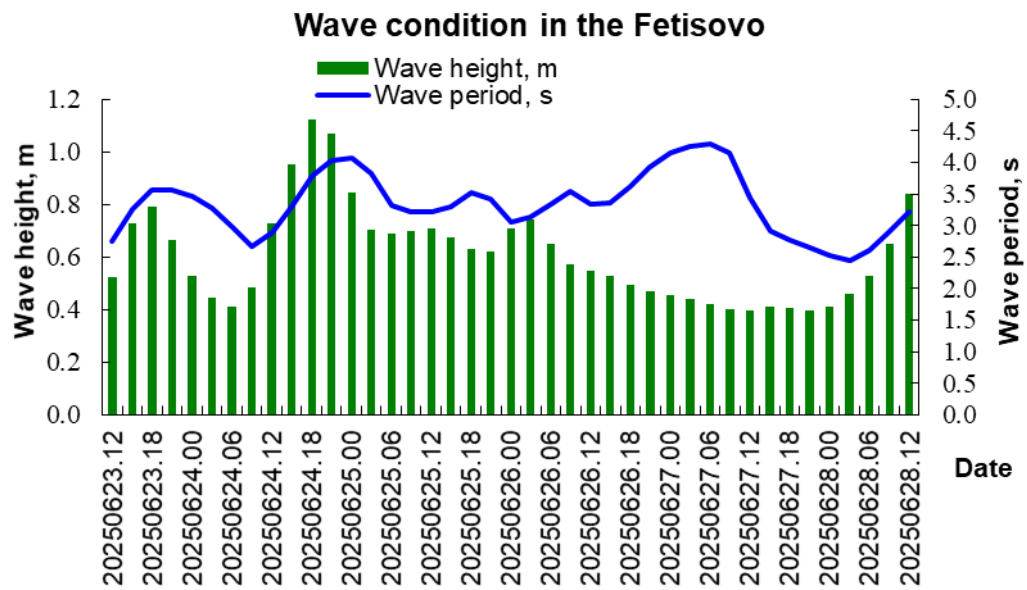
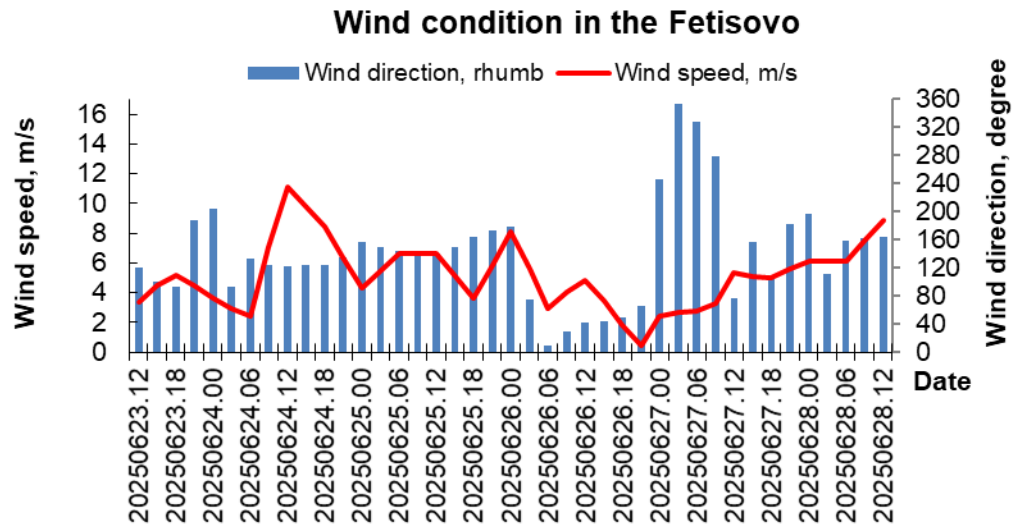
Wave condition in the Aktau



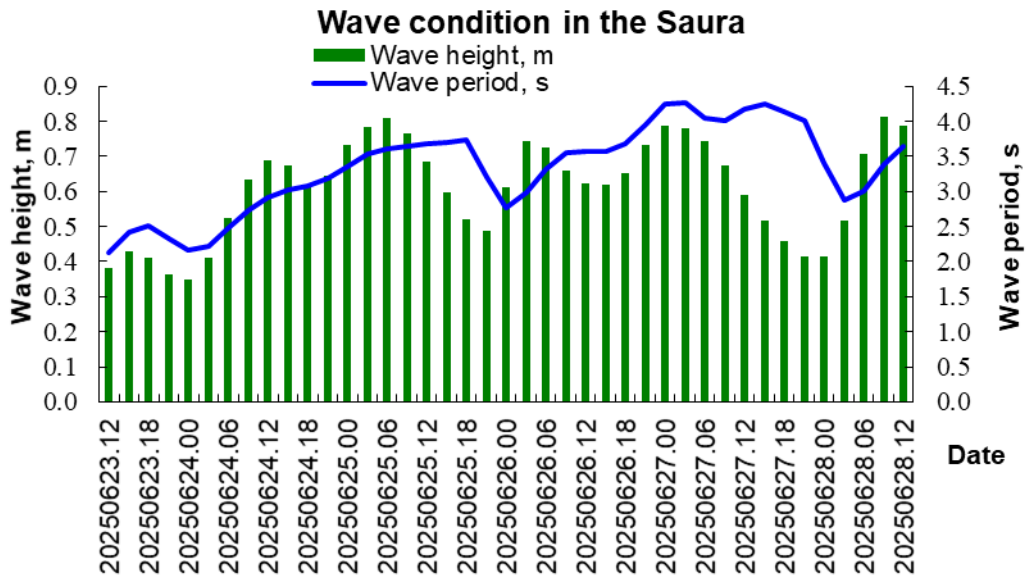
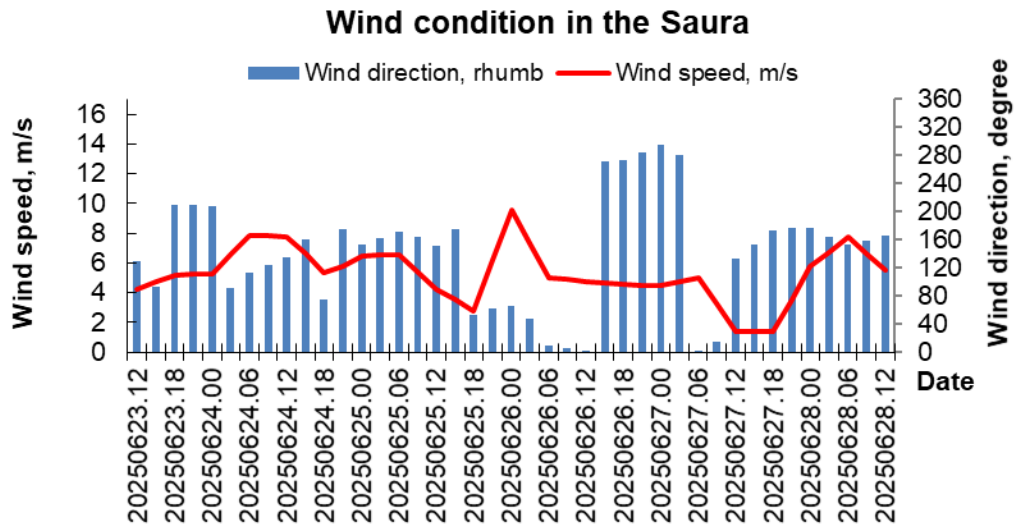
Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250623.12	0.35	W	2.2	4	S
20250623.15	0.35	W	2.3	5	S
20250623.18	0.37	W	2.3	5	S
20250623.21	0.40	W	2.3	5	S
20250624.00	0.40	W	2.3	5	S
20250624.03	0.39	W	2.3	5	E
20250624.06	0.41	W	2.3	5	E
20250624.09	0.52	W	2.6	7	SE
20250624.12	0.72	NW	2.9	8	SE
20250624.15	0.80	NW	3.3	7	SE
20250624.18	0.68	NW	3.3	5	SE
20250624.21	0.60	NW	3.1	6	S
20250625.00	0.69	NW	3.0	8	S
20250625.03	0.73	NW	3.1	7	S
20250625.06	0.71	NW	3.3	6	S
20250625.09	0.68	NW	3.4	5	S
20250625.12	0.64	NW	3.6	4	SE
20250625.15	0.59	NW	3.8	3	S
20250625.18	0.54	NW	4.0	2	E
20250625.21	0.50	NW	3.6	5	E
20250626.00	0.59	N	3.0	8	NE
20250626.03	0.71	N	3.0	7	NE
20250626.06	0.69	NE	3.2	5	N
20250626.09	0.65	NE	3.3	6	N
20250626.12	0.68	NE	3.3	6	N
20250626.15	0.86	E	3.4	9	N
20250626.18	1.19	E	3.7	12	W
20250626.21	1.38	E	4.2	9	W
20250627.00	1.15	E	4.3	5	W
20250627.03	0.86	E	4.2	5	W
20250627.06	0.72	E	3.9	5	W
20250627.09	0.63	E	3.8	3	W
20250627.12	0.55	NE	3.9	1	S
20250627.15	0.48	NE	3.9	2	E
20250627.18	0.42	NE	3.9	3	E
20250627.21	0.37	NE	3.8	3	SE
20250628.00	0.33	NE	3.7	3	SE
20250628.03	0.33	NE	3.3	5	SE
20250628.06	0.40	N	2.7	7	SE
20250628.09	0.55	NW	2.7	6	S
20250628.12	0.63	NW	3.1	5	S



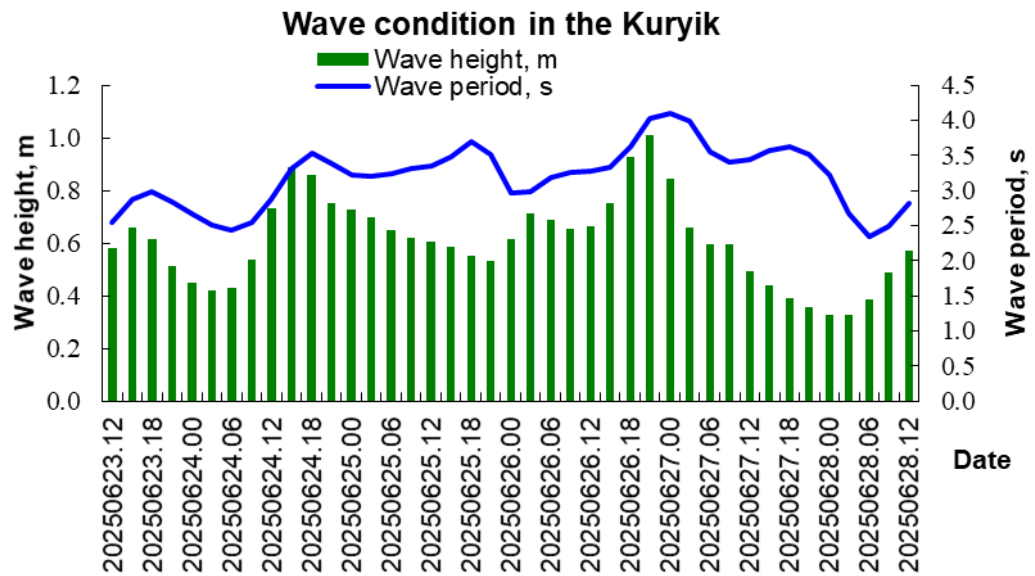
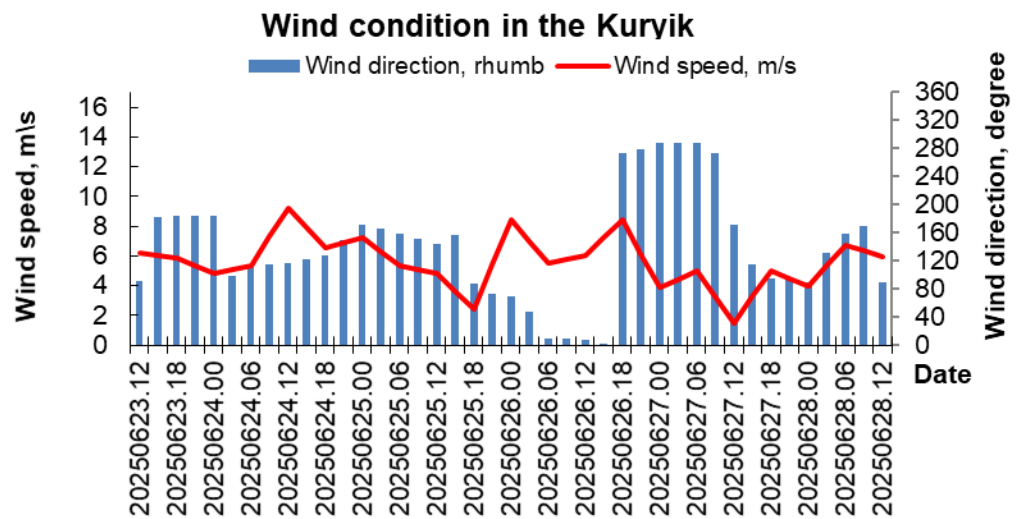
Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250623.12	0.51	W	2.4	6	S
20250623.15	0.57	W	2.7	5	S
20250623.18	0.55	W	2.9	5	SW
20250623.21	0.47	W	2.7	5	S
20250624.00	0.43	W	2.5	5	S
20250624.03	0.43	W	2.4	6	E
20250624.06	0.47	W	2.4	6	E
20250624.09	0.58	W	2.6	7	SE
20250624.12	0.75	W	3.0	9	SE
20250624.15	0.84	NW	3.4	7	SE
20250624.18	0.75	NW	3.5	5	SE
20250624.21	0.64	NW	3.3	6	SE
20250625.00	0.65	NW	3.0	7	S
20250625.03	0.65	NW	3.1	6	S
20250625.06	0.61	NW	3.2	5	S
20250625.09	0.59	NW	3.3	5	SE
20250625.12	0.59	NW	3.4	4	SE
20250625.15	0.56	NW	3.6	3	S
20250625.18	0.53	NW	3.9	2	E
20250625.21	0.50	NW	3.7	5	NE
20250626.00	0.56	N	3.0	8	NE
20250626.03	0.67	N	2.9	7	NE
20250626.06	0.68	NE	3.1	6	N
20250626.09	0.68	NE	3.3	6	N
20250626.12	0.72	NE	3.3	7	N
20250626.15	0.75	NE	3.4	6	W
20250626.18	0.79	E	3.5	6	W
20250626.21	0.84	E	3.7	6	W
20250627.00	0.78	E	3.7	5	W
20250627.03	0.72	E	3.6	6	W
20250627.06	0.68	E	3.4	6	W
20250627.09	0.62	NE	3.4	4	W
20250627.12	0.54	NE	3.4	2	SE
20250627.15	0.46	NE	3.6	3	E
20250627.18	0.40	NE	3.6	5	S
20250627.21	0.36	NE	3.6	4	E
20250628.00	0.32	NE	3.4	4	E
20250628.03	0.31	NE	2.8	5	SE
20250628.06	0.37	N	2.4	7	S
20250628.09	0.48	N	2.5	6	S
20250628.12	0.53	NW	2.8	5	E



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250623.12	0.52	NW	2.7	3	SE
20250623.15	0.73	NW	3.3	4	E
20250623.18	0.79	NW	3.6	5	E
20250623.21	0.66	NW	3.6	4	S
20250624.00	0.53	W	3.5	4	SW
20250624.03	0.45	W	3.3	3	E
20250624.06	0.41	W	3.0	2	SE
20250624.09	0.48	NW	2.7	7	SE
20250624.12	0.73	NW	2.9	11	SE
20250624.15	0.95	NW	3.3	10	SE
20250624.18	1.12	NW	3.8	8	SE
20250624.21	1.07	NW	4.0	6	SE
20250625.00	0.84	NW	4.1	4	SE
20250625.03	0.70	NW	3.8	5	SE
20250625.06	0.69	NW	3.3	7	SE
20250625.09	0.70	NW	3.2	7	SE
20250625.12	0.71	NW	3.2	7	SE
20250625.15	0.68	NW	3.3	5	SE
20250625.18	0.63	NW	3.5	4	S
20250625.21	0.62	NW	3.4	6	S
20250626.00	0.71	NW	3.1	8	S
20250626.03	0.74	N	3.1	6	E
20250626.06	0.65	N	3.3	3	N
20250626.09	0.57	N	3.5	4	NE
20250626.12	0.55	N	3.3	5	NE
20250626.15	0.53	N	3.4	3	NE
20250626.18	0.50	N	3.6	2	NE
20250626.21	0.47	N	3.9	0	NE
20250627.00	0.45	NE	4.1	2	SW
20250627.03	0.44	NE	4.3	3	N
20250627.06	0.42	NE	4.3	3	NW
20250627.09	0.40	NE	4.2	3	W
20250627.12	0.40	NE	3.4	5	E
20250627.15	0.41	NE	2.9	5	SE
20250627.18	0.40	N	2.8	5	E
20250627.21	0.40	N	2.6	6	S
20250628.00	0.41	N	2.5	6	S
20250628.03	0.46	NW	2.5	6	E
20250628.06	0.53	NW	2.6	6	S
20250628.09	0.65	NW	2.9	7	S
20250628.12	0.84	NW	3.2	9	S



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250623.12	0.38	NW	2.1	4	SE
20250623.15	0.43	NW	2.4	5	E
20250623.18	0.41	NW	2.5	5	SW
20250623.21	0.36	NW	2.3	5	SW
20250624.00	0.35	W	2.2	5	SW
20250624.03	0.41	W	2.2	7	E
20250624.06	0.52	W	2.5	8	SE
20250624.09	0.63	W	2.7	8	SE
20250624.12	0.69	NW	2.9	8	SE
20250624.15	0.68	NW	3.0	7	S
20250624.18	0.62	NW	3.1	5	E
20250624.21	0.65	NW	3.2	6	S
20250625.00	0.73	NW	3.4	6	SE
20250625.03	0.78	NW	3.5	7	S
20250625.06	0.81	NW	3.6	7	S
20250625.09	0.77	NW	3.6	5	S
20250625.12	0.68	NW	3.7	4	SE
20250625.15	0.60	NW	3.7	4	S
20250625.18	0.52	NW	3.7	3	NE
20250625.21	0.49	NW	3.2	6	NE
20250626.00	0.61	N	2.8	10	NE
20250626.03	0.74	NE	3.0	7	NE
20250626.06	0.73	NE	3.3	5	N
20250626.09	0.66	NE	3.5	5	N
20250626.12	0.62	NE	3.6	5	N
20250626.15	0.62	NE	3.6	5	W
20250626.18	0.65	E	3.7	5	W
20250626.21	0.73	E	4.0	5	W
20250627.00	0.79	E	4.2	4	NW
20250627.03	0.78	E	4.3	5	W
20250627.06	0.74	E	4.1	5	N
20250627.09	0.67	E	4.0	3	N
20250627.12	0.59	E	4.2	1	SE
20250627.15	0.52	E	4.2	1	SE
20250627.18	0.46	E	4.1	1	S
20250627.21	0.41	NE	4.0	4	S
20250628.00	0.42	NE	3.4	6	S
20250628.03	0.52	N	2.9	7	S
20250628.06	0.71	NW	3.0	8	SE
20250628.09	0.81	NW	3.4	7	S
20250628.12	0.79	NW	3.6	5	S



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250623.12	0.58	W	2.5	6	E
20250623.15	0.66	W	2.9	6	S
20250623.18	0.62	W	3.0	6	S
20250623.21	0.51	W	2.8	5	S
20250624.00	0.45	W	2.7	5	S
20250624.03	0.42	W	2.5	5	E
20250624.06	0.43	W	2.4	5	E
20250624.09	0.54	W	2.5	7	SE
20250624.12	0.73	NW	2.9	9	SE
20250624.15	0.89	NW	3.3	8	SE
20250624.18	0.86	NW	3.5	7	SE
20250624.21	0.75	NW	3.4	7	SE
20250625.00	0.73	NW	3.2	7	S
20250625.03	0.70	NW	3.2	6	S
20250625.06	0.65	NW	3.2	5	S
20250625.09	0.62	NW	3.3	5	SE
20250625.12	0.61	NW	3.4	5	SE
20250625.15	0.59	NW	3.5	4	SE
20250625.18	0.55	NW	3.7	2	E
20250625.21	0.53	NW	3.5	5	E
20250626.00	0.62	N	3.0	8	E
20250626.03	0.71	N	3.0	7	NE
20250626.06	0.69	NE	3.2	6	N
20250626.09	0.65	NE	3.3	6	N
20250626.12	0.66	NE	3.3	6	N
20250626.15	0.75	NE	3.3	7	N
20250626.18	0.93	NE	3.6	8	W
20250626.21	1.01	NE	4.0	6	W
20250627.00	0.84	NE	4.1	4	W
20250627.03	0.66	NE	4.0	4	W
20250627.06	0.59	NE	3.5	5	W
20250627.09	0.59	NE	3.4	3	W
20250627.12	0.50	NE	3.4	1	S
20250627.15	0.44	NE	3.6	3	SE
20250627.18	0.39	NE	3.6	5	E
20250627.21	0.36	NE	3.5	4	E
20250628.00	0.33	NE	3.2	4	E
20250628.03	0.33	N	2.7	5	SE
20250628.06	0.39	N	2.4	7	S
20250628.09	0.49	N	2.5	6	S
20250628.12	0.57	NW	2.8	6	E

**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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