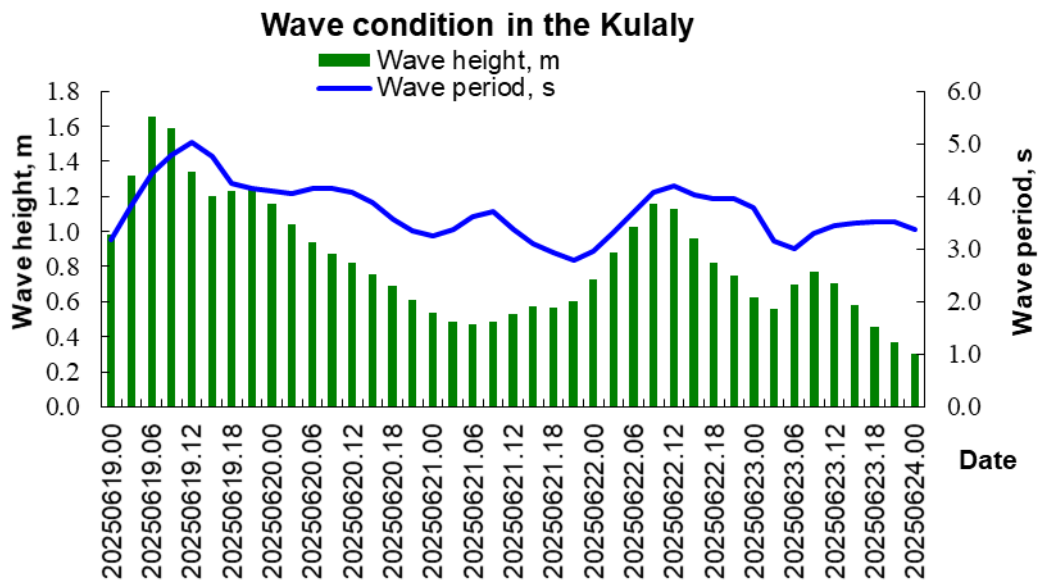
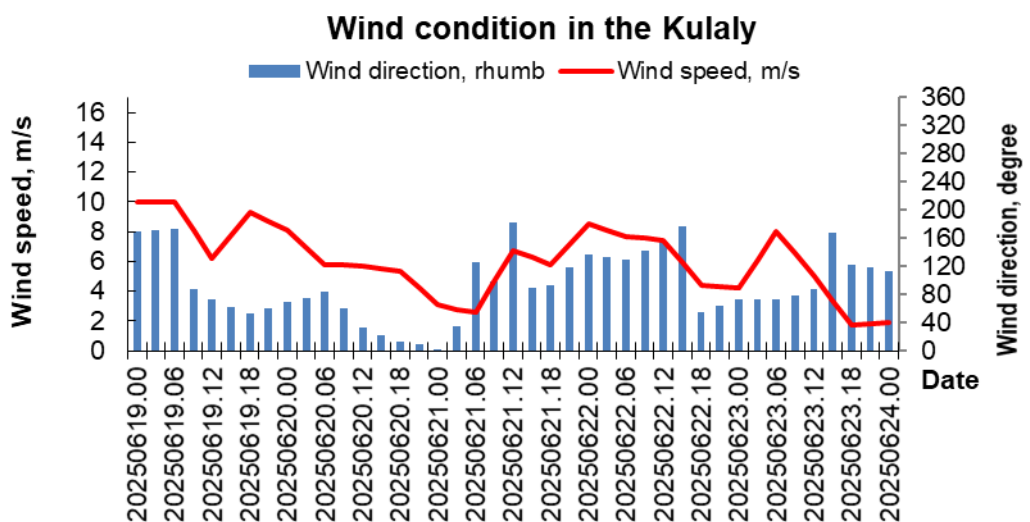




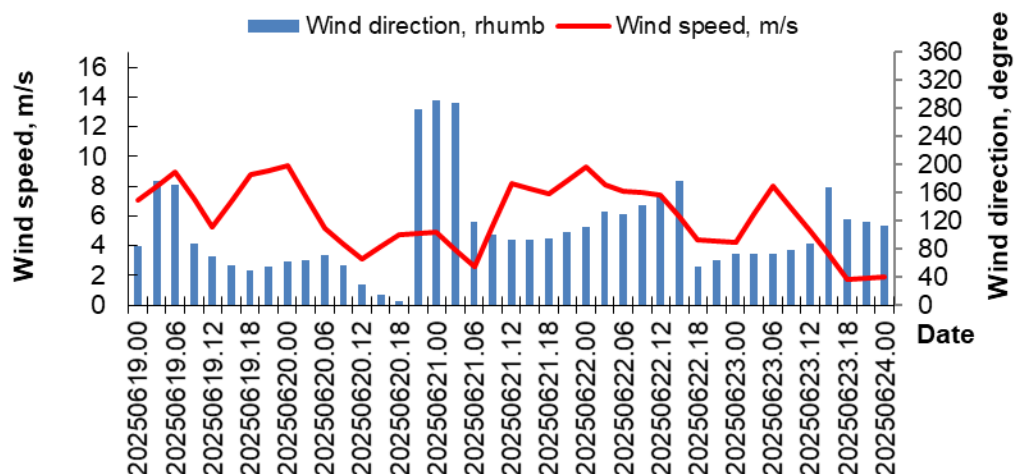
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 19 – 24, 2025.**

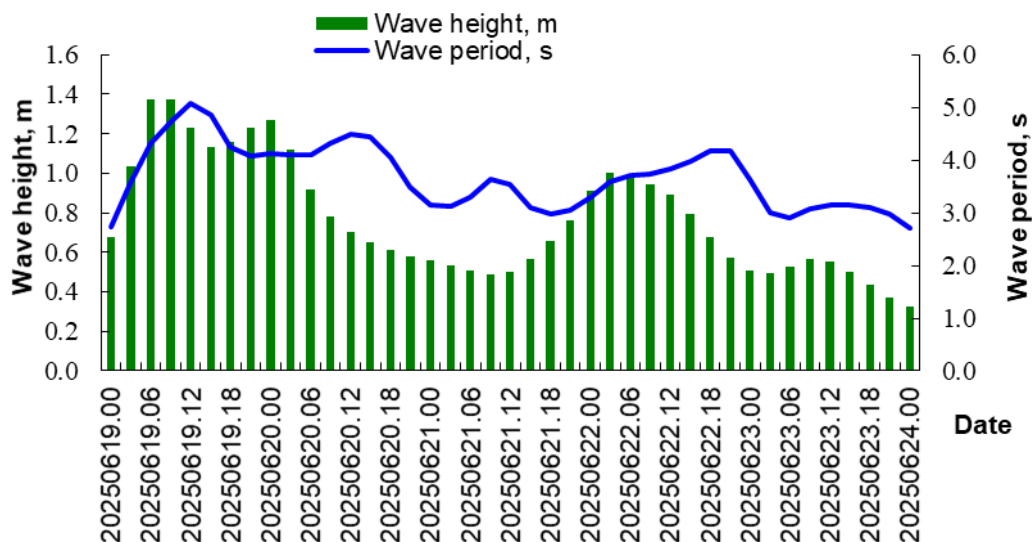


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250619.00	0.98	N	3.2	10	S
20250619.03	1.32	N	3.8	10	S
20250619.06	1.66	N	4.4	10	S
20250619.09	1.59	N	4.8	8	E
20250619.12	1.34	N	5.0	6	E
20250619.15	1.20	N	4.8	8	NE
20250619.18	1.23	N	4.3	9	NE
20250619.21	1.24	N	4.2	9	NE
20250620.00	1.16	N	4.1	8	E
20250620.03	1.04	N	4.1	7	E
20250620.06	0.94	N	4.1	6	E
20250620.09	0.88	N	4.2	6	NE
20250620.12	0.82	N	4.1	6	NE
20250620.15	0.76	N	3.9	6	NE
20250620.18	0.69	N	3.6	5	N
20250620.21	0.61	N	3.4	4	N
20250621.00	0.54	NE	3.3	3	N
20250621.03	0.48	NE	3.4	3	NE
20250621.06	0.47	NE	3.6	3	SE
20250621.09	0.49	NE	3.7	5	E
20250621.12	0.53	N	3.4	7	S
20250621.15	0.58	NW	3.1	6	E
20250621.18	0.57	NW	2.9	6	E
20250621.21	0.61	NW	2.8	7	SE
20250622.00	0.73	NW	2.9	9	SE
20250622.03	0.88	NW	3.3	8	SE
20250622.06	1.03	NW	3.7	8	SE
20250622.09	1.16	NW	4.1	8	SE
20250622.12	1.13	NW	4.2	7	SE
20250622.15	0.96	NW	4.0	6	S
20250622.18	0.82	N	4.0	4	NE
20250622.21	0.75	N	3.9	4	NE
20250623.00	0.63	N	3.8	4	E
20250623.03	0.56	N	3.2	6	E
20250623.06	0.70	N	3.0	8	E
20250623.09	0.77	N	3.3	7	E
20250623.12	0.70	N	3.4	5	E
20250623.15	0.58	N	3.5	3	S
20250623.18	0.46	N	3.5	2	SE
20250623.21	0.37	N	3.5	2	SE
20250624.00	0.30	N	3.4	2	SE

Wind condition in the Fort-Shevchenko

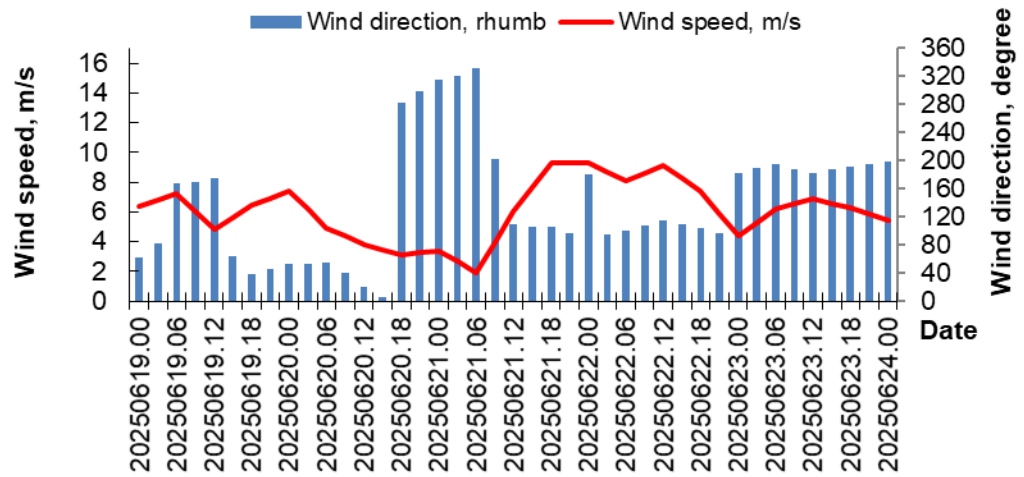


Wave condition in the Fort-Shevchenko

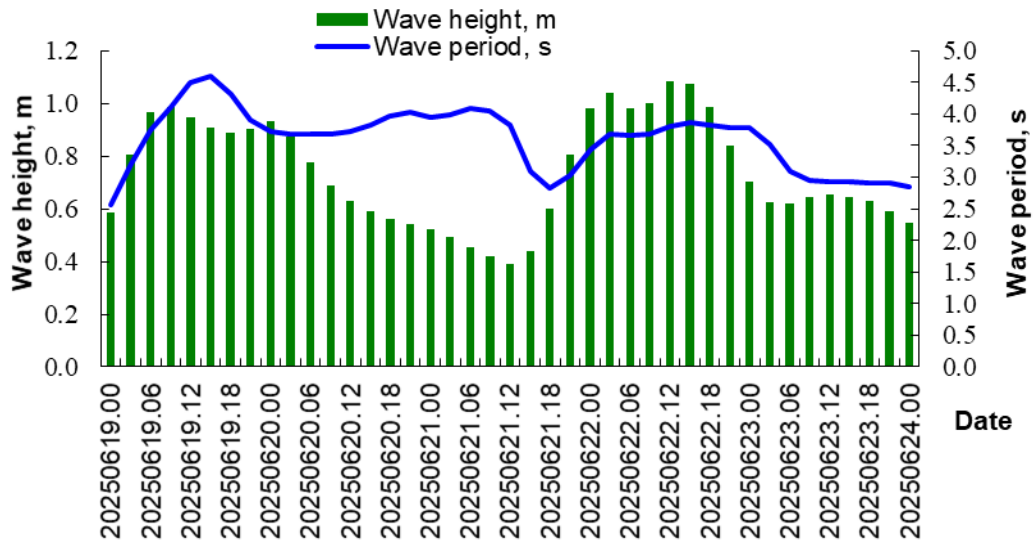


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250619.00	0.68	N	2.7	7	E
20250619.03	1.04	N	3.6	8	S
20250619.06	1.37	N	4.3	9	S
20250619.09	1.37	N	4.7	7	E
20250619.12	1.23	N	5.1	5	E
20250619.15	1.13	N	4.9	7	NE
20250619.18	1.16	N	4.3	9	NE
20250619.21	1.23	N	4.1	9	NE
20250620.00	1.27	N	4.1	9	NE
20250620.03	1.12	N	4.1	7	NE
20250620.06	0.92	N	4.1	5	E
20250620.09	0.78	N	4.3	4	NE
20250620.12	0.71	N	4.5	3	NE
20250620.15	0.65	N	4.5	4	N
20250620.18	0.61	N	4.0	5	N
20250620.21	0.58	N	3.5	5	W
20250621.00	0.56	NE	3.2	5	W
20250621.03	0.53	NE	3.1	4	W
20250621.06	0.51	NE	3.3	3	SE
20250621.09	0.49	NE	3.6	5	E
20250621.12	0.50	NE	3.6	8	E
20250621.15	0.57	N	3.1	8	E
20250621.18	0.66	NW	3.0	7	E
20250621.21	0.76	NW	3.1	8	E
20250622.00	0.91	NW	3.3	9	E
20250622.03	1.00	NW	3.6	8	SE
20250622.06	0.99	NW	3.7	8	SE
20250622.09	0.94	NW	3.7	8	SE
20250622.12	0.89	NW	3.8	7	SE
20250622.15	0.80	NW	4.0	6	S
20250622.18	0.68	NW	4.2	4	NE
20250622.21	0.57	NW	4.2	4	NE
20250623.00	0.51	NW	3.6	4	E
20250623.03	0.49	NW	3.0	6	E
20250623.06	0.53	N	2.9	8	E
20250623.09	0.56	N	3.1	7	E
20250623.12	0.55	NW	3.2	5	E
20250623.15	0.50	NW	3.2	3	S
20250623.18	0.43	NW	3.1	2	SE
20250623.21	0.37	NW	3.0	2	SE
20250624.00	0.33	NW	2.7	2	SE

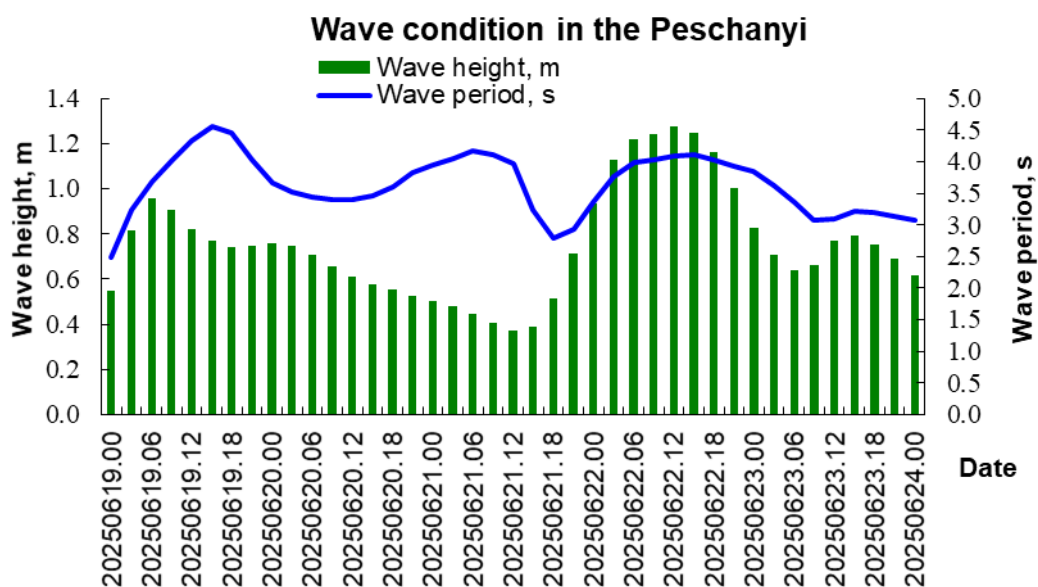
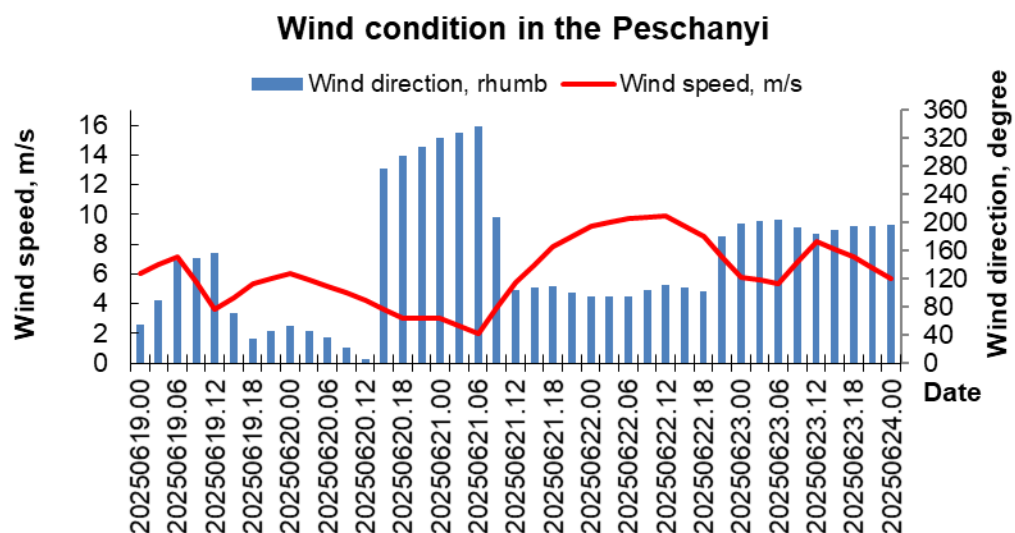
Wind condition in the Aktau



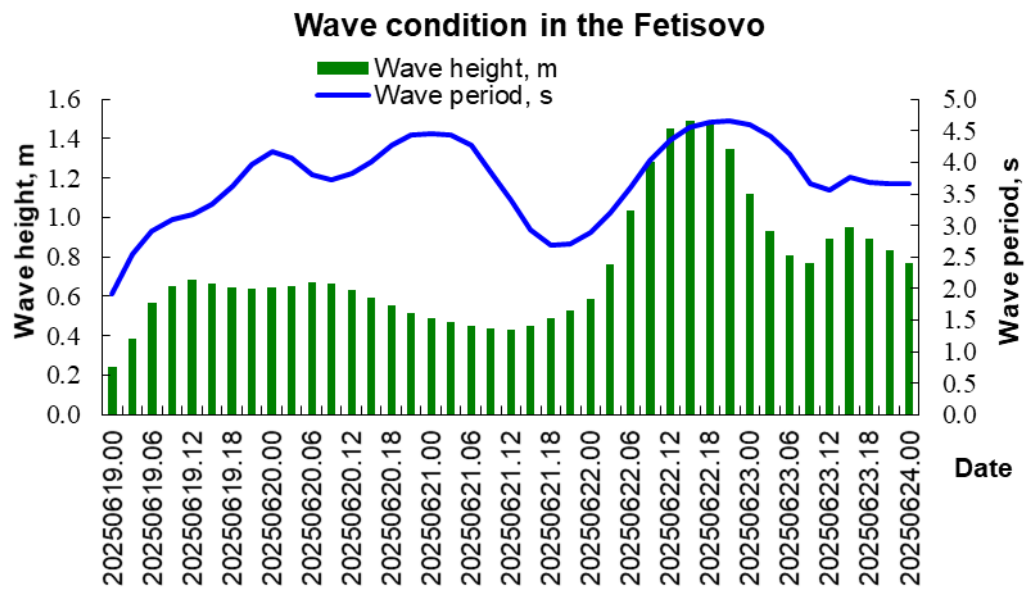
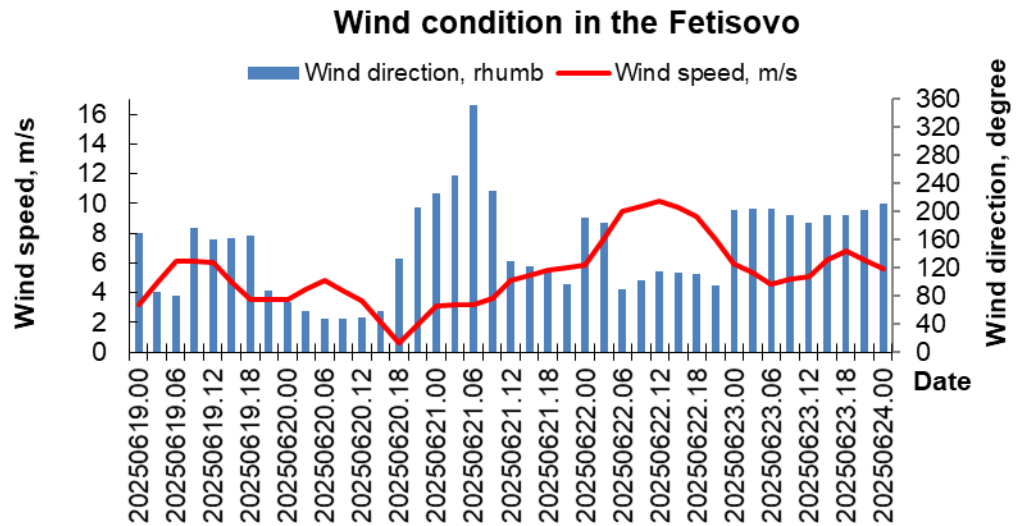
Wave condition in the Aktau



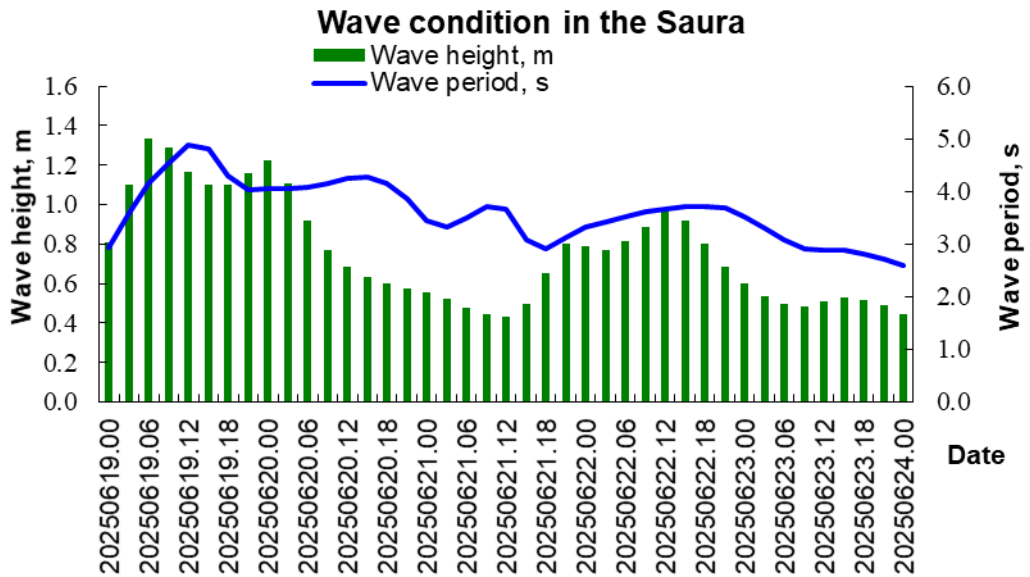
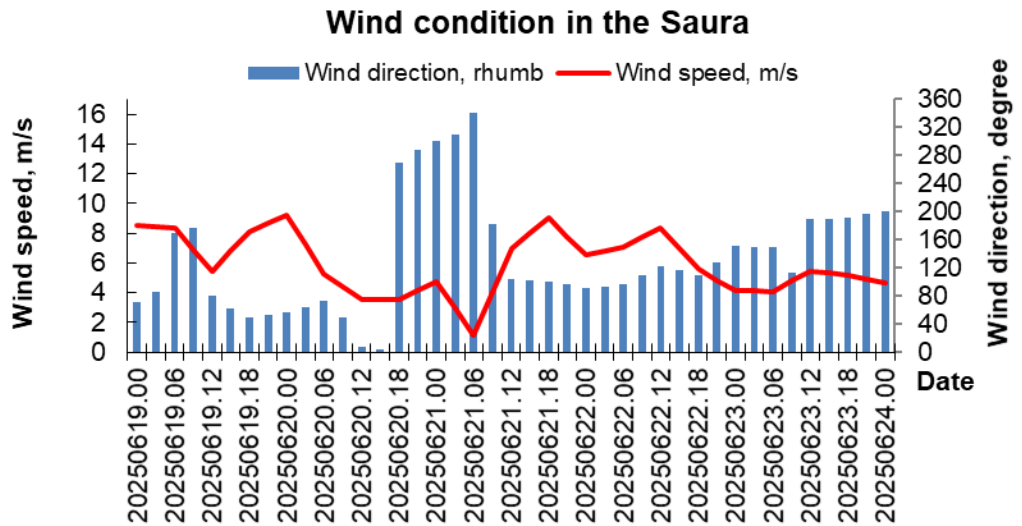
Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250619.00	0.59	NE	2.6	6	NE
20250619.03	0.81	NE	3.2	7	E
20250619.06	0.97	NE	3.7	7	S
20250619.09	0.98	NE	4.1	6	S
20250619.12	0.94	N	4.5	5	S
20250619.15	0.91	N	4.6	6	NE
20250619.18	0.89	N	4.3	6	NE
20250619.21	0.91	N	3.9	7	NE
20250620.00	0.93	N	3.7	7	NE
20250620.03	0.87	N	3.7	6	NE
20250620.06	0.78	N	3.7	5	NE
20250620.09	0.69	N	3.7	4	NE
20250620.12	0.63	N	3.7	4	N
20250620.15	0.59	N	3.8	3	N
20250620.18	0.56	N	4.0	3	W
20250620.21	0.54	N	4.0	3	NW
20250621.00	0.52	N	3.9	3	NW
20250621.03	0.49	N	4.0	3	NW
20250621.06	0.45	N	4.1	2	NW
20250621.09	0.42	N	4.0	4	S
20250621.12	0.39	NE	3.8	6	E
20250621.15	0.44	N	3.1	8	E
20250621.18	0.60	NW	2.8	9	E
20250621.21	0.80	NW	3.0	9	E
20250622.00	0.98	W	3.4	9	S
20250622.03	1.04	W	3.7	9	E
20250622.06	0.98	W	3.7	8	E
20250622.09	1.00	W	3.7	9	E
20250622.12	1.08	W	3.8	9	SE
20250622.15	1.07	NW	3.9	8	E
20250622.18	0.98	NW	3.8	7	E
20250622.21	0.84	W	3.8	6	E
20250623.00	0.70	NW	3.8	4	S
20250623.03	0.63	W	3.5	5	S
20250623.06	0.62	W	3.1	6	S
20250623.09	0.64	W	3.0	7	S
20250623.12	0.65	W	2.9	7	S
20250623.15	0.64	W	2.9	7	S
20250623.18	0.63	W	2.9	6	S
20250623.21	0.59	W	2.9	6	S
20250624.00	0.55	W	2.8	5	S



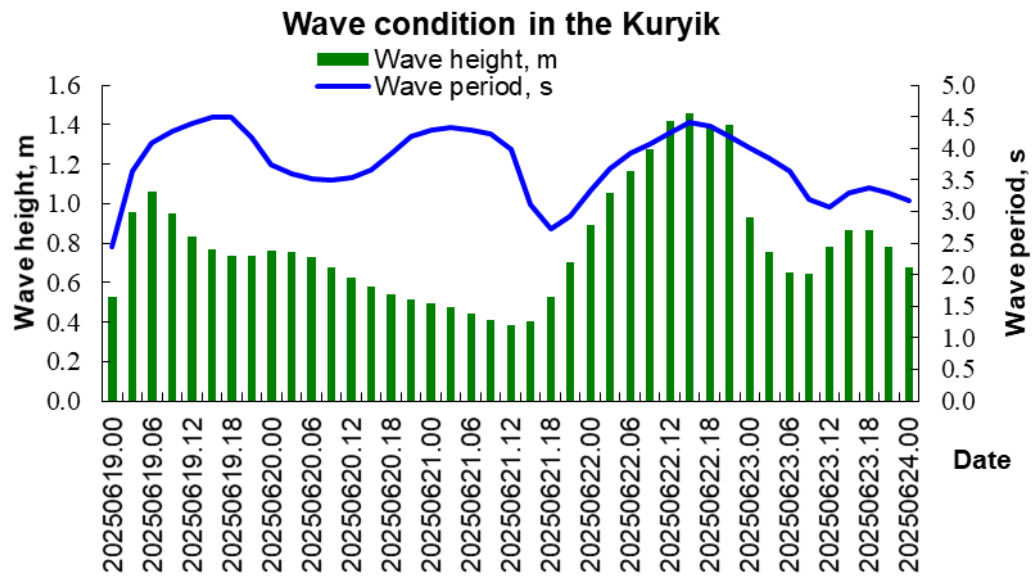
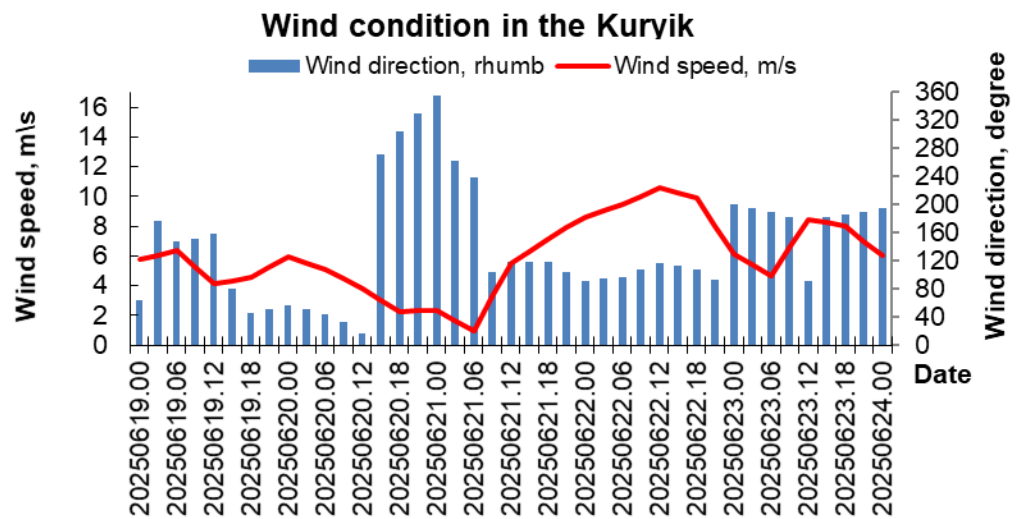
Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250619.00	0.55	NE	2.5	6	NE
20250619.03	0.81	NE	3.2	7	E
20250619.06	0.96	NE	3.7	7	SE
20250619.09	0.90	NE	4.0	5	SE
20250619.12	0.82	NE	4.3	4	SE
20250619.15	0.77	N	4.6	4	E
20250619.18	0.74	N	4.5	5	NE
20250619.21	0.75	N	4.0	6	NE
20250620.00	0.76	N	3.7	6	NE
20250620.03	0.75	N	3.5	6	NE
20250620.06	0.71	N	3.4	5	NE
20250620.09	0.66	N	3.4	5	NE
20250620.12	0.61	N	3.4	4	N
20250620.15	0.58	N	3.5	4	W
20250620.18	0.55	N	3.6	3	NW
20250620.21	0.53	N	3.8	3	NW
20250621.00	0.51	N	3.9	3	NW
20250621.03	0.48	N	4.1	3	NW
20250621.06	0.44	N	4.2	2	N
20250621.09	0.41	N	4.1	4	SW
20250621.12	0.37	N	4.0	5	E
20250621.15	0.39	N	3.2	7	E
20250621.18	0.51	NW	2.8	8	E
20250621.21	0.72	NW	2.9	9	E
20250622.00	0.93	W	3.4	9	E
20250622.03	1.13	W	3.8	9	E
20250622.06	1.22	W	4.0	10	E
20250622.09	1.24	W	4.0	10	E
20250622.12	1.28	W	4.1	10	E
20250622.15	1.25	W	4.1	9	E
20250622.18	1.16	W	4.0	9	E
20250622.21	1.01	W	3.9	7	S
20250623.00	0.83	W	3.8	6	S
20250623.03	0.71	W	3.6	6	S
20250623.06	0.64	W	3.4	5	SW
20250623.09	0.66	W	3.1	7	S
20250623.12	0.77	W	3.1	8	S
20250623.15	0.80	W	3.2	8	S
20250623.18	0.75	W	3.2	7	S
20250623.21	0.69	W	3.1	6	S
20250624.00	0.62	W	3.1	6	S



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250619.00	0.24	N	1.9	3	S
20250619.03	0.38	N	2.5	5	E
20250619.06	0.57	N	2.9	6	E
20250619.09	0.65	N	3.1	6	S
20250619.12	0.68	N	3.2	6	S
20250619.15	0.66	N	3.3	5	S
20250619.18	0.65	N	3.6	4	S
20250619.21	0.64	NW	4.0	4	E
20250620.00	0.64	NW	4.2	4	E
20250620.03	0.65	NW	4.1	4	NE
20250620.06	0.67	NW	3.8	5	NE
20250620.09	0.66	N	3.7	4	NE
20250620.12	0.63	N	3.8	3	NE
20250620.15	0.59	N	4.0	2	NE
20250620.18	0.55	NW	4.3	1	SE
20250620.21	0.52	NW	4.4	2	SW
20250621.00	0.49	NW	4.5	3	SW
20250621.03	0.47	NW	4.4	3	W
20250621.06	0.45	NW	4.3	3	N
20250621.09	0.44	NW	3.8	4	SW
20250621.12	0.43	NW	3.4	5	SE
20250621.15	0.45	NW	2.9	5	SE
20250621.18	0.49	NW	2.7	6	SE
20250621.21	0.53	NW	2.7	6	E
20250622.00	0.58	NW	2.9	6	S
20250622.03	0.76	NW	3.2	8	S
20250622.06	1.03	W	3.6	9	E
20250622.09	1.29	W	4.0	10	E
20250622.12	1.45	NW	4.4	10	SE
20250622.15	1.49	NW	4.6	10	SE
20250622.18	1.48	NW	4.6	9	E
20250622.21	1.35	NW	4.6	8	E
20250623.00	1.12	NW	4.6	6	S
20250623.03	0.93	W	4.4	5	SW
20250623.06	0.80	W	4.1	5	SW
20250623.09	0.77	W	3.7	5	S
20250623.12	0.89	W	3.6	5	S
20250623.15	0.95	W	3.8	6	S
20250623.18	0.89	W	3.7	7	S
20250623.21	0.84	W	3.7	6	SW
20250624.00	0.77	W	3.7	6	SW



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250619.00	0.81	N	2.9	9	E
20250619.03	1.10	NE	3.6	8	E
20250619.06	1.34	NE	4.2	8	S
20250619.09	1.29	N	4.5	7	S
20250619.12	1.17	N	4.9	5	E
20250619.15	1.10	N	4.8	7	NE
20250619.18	1.10	N	4.3	8	NE
20250619.21	1.16	N	4.0	9	NE
20250620.00	1.23	N	4.1	9	NE
20250620.03	1.10	N	4.1	7	NE
20250620.06	0.92	N	4.1	5	E
20250620.09	0.77	N	4.2	4	NE
20250620.12	0.68	N	4.3	4	N
20250620.15	0.64	N	4.3	4	N
20250620.18	0.60	N	4.2	4	W
20250620.21	0.57	N	3.9	4	W
20250621.00	0.55	N	3.4	5	NW
20250621.03	0.52	NE	3.3	3	NW
20250621.06	0.48	NE	3.5	1	N
20250621.09	0.44	NE	3.7	4	S
20250621.12	0.43	NE	3.7	7	E
20250621.15	0.50	N	3.1	8	E
20250621.18	0.65	NW	2.9	9	E
20250621.21	0.80	NW	3.1	8	E
20250622.00	0.79	NW	3.3	7	E
20250622.03	0.77	NW	3.4	7	E
20250622.06	0.81	NW	3.5	7	E
20250622.09	0.89	NW	3.6	8	E
20250622.12	0.97	NW	3.7	8	SE
20250622.15	0.92	NW	3.7	7	SE
20250622.18	0.80	NW	3.7	6	E
20250622.21	0.69	NW	3.7	5	SE
20250623.00	0.60	NW	3.5	4	SE
20250623.03	0.54	NW	3.3	4	SE
20250623.06	0.49	NW	3.1	4	SE
20250623.09	0.49	NW	2.9	5	SE
20250623.12	0.51	NW	2.9	5	S
20250623.15	0.53	NW	2.9	5	S
20250623.18	0.52	NW	2.8	5	S
20250623.21	0.49	NW	2.7	5	S
20250624.00	0.45	W	2.6	5	S



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250619.00	0.53	NE	2.4	6	NE
20250619.03	0.96	NE	3.6	6	S
20250619.06	1.06	NE	4.1	6	SE
20250619.09	0.95	NE	4.3	5	SE
20250619.12	0.83	NE	4.4	4	S
20250619.15	0.77	N	4.5	4	E
20250619.18	0.74	N	4.5	5	NE
20250619.21	0.74	N	4.2	5	NE
20250620.00	0.76	N	3.7	6	NE
20250620.03	0.76	N	3.6	6	NE
20250620.06	0.73	N	3.5	5	NE
20250620.09	0.68	N	3.5	4	NE
20250620.12	0.62	N	3.5	4	N
20250620.15	0.58	N	3.7	3	W
20250620.18	0.54	N	3.9	2	NW
20250620.21	0.52	N	4.2	2	NW
20250621.00	0.50	N	4.3	2	N
20250621.03	0.47	N	4.3	2	W
20250621.06	0.45	N	4.3	1	SW
20250621.09	0.41	N	4.2	3	E
20250621.12	0.38	N	4.0	6	SE
20250621.15	0.41	N	3.1	6	SE
20250621.18	0.53	NW	2.7	7	SE
20250621.21	0.70	NW	2.9	8	E
20250622.00	0.89	W	3.3	9	E
20250622.03	1.05	W	3.7	9	E
20250622.06	1.17	W	3.9	9	E
20250622.09	1.27	W	4.1	10	E
20250622.12	1.42	NW	4.3	11	SE
20250622.15	1.46	NW	4.4	10	E
20250622.18	1.40	W	4.4	10	E
20250622.21	1.40	W	4.2	8	E
20250623.00	0.93	W	4.0	6	S
20250623.03	0.76	W	3.8	5	S
20250623.06	0.65	W	3.6	5	S
20250623.09	0.65	W	3.2	7	S
20250623.12	0.78	W	3.1	8	E
20250623.15	0.87	W	3.3	8	S
20250623.18	0.86	W	3.4	8	S
20250623.21	0.78	W	3.3	7	S
20250624.00	0.68	W	3.2	6	S

**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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