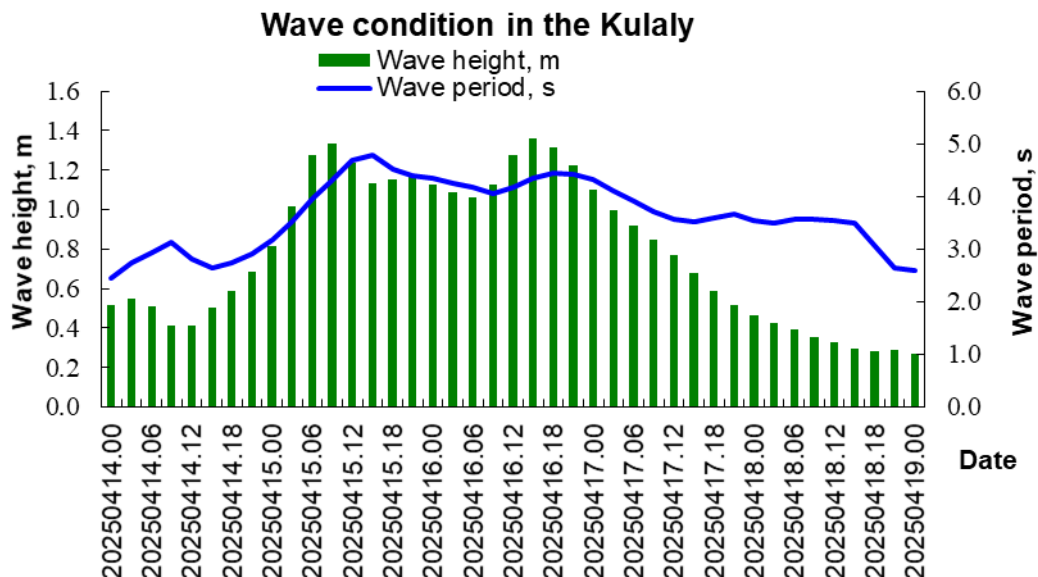
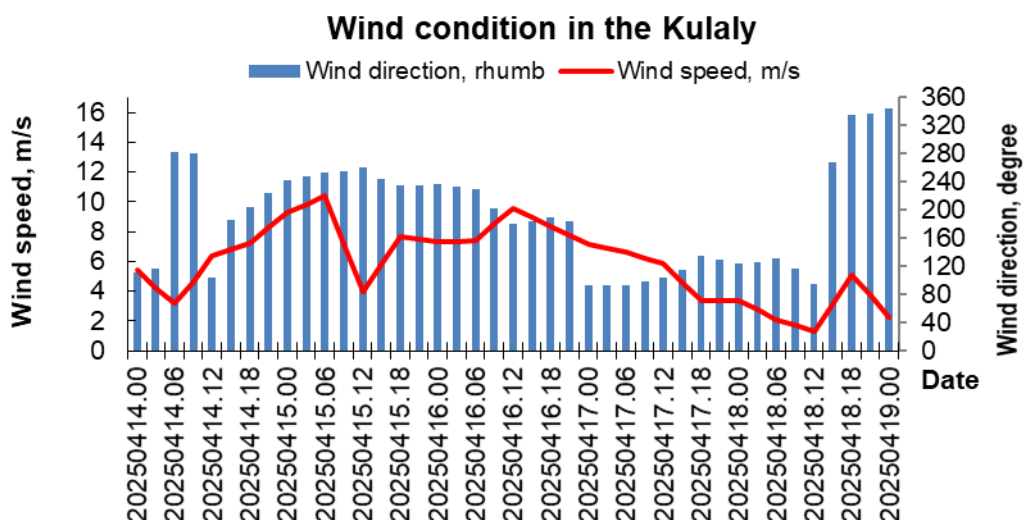




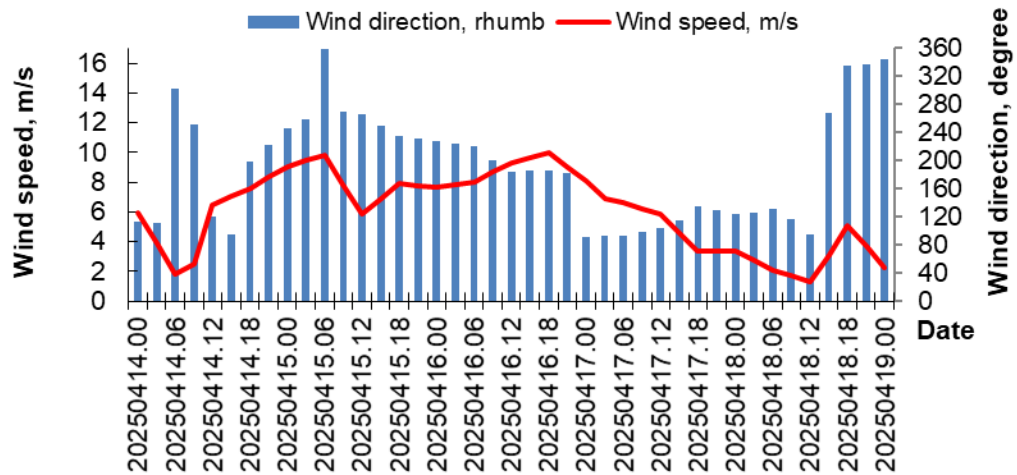
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 14 –19, 2025.**

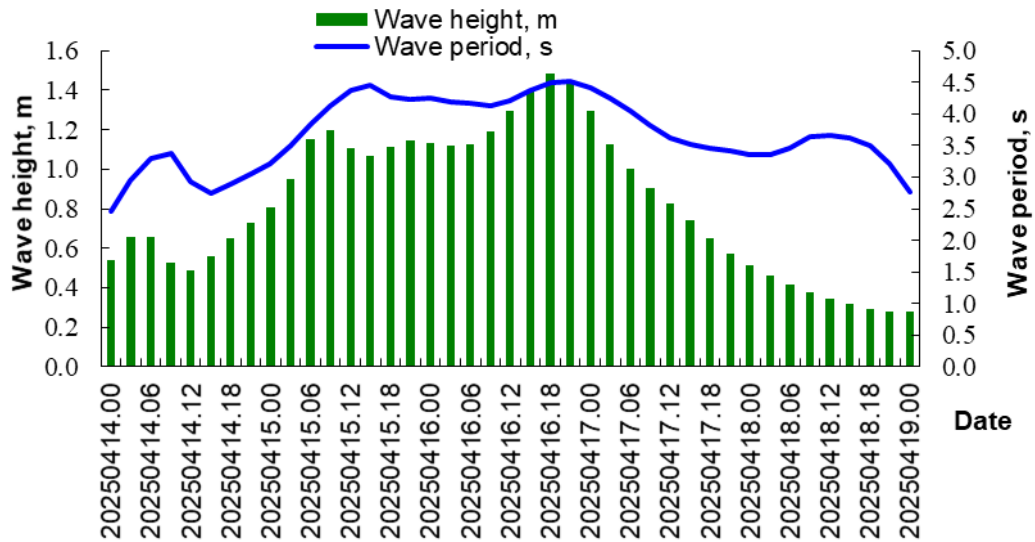


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250414.00	0.52	NW	2.4	5	E
20250414.03	0.55	NW	2.7	4	SE
20250414.06	0.51	NW	2.9	3	W
20250414.09	0.41	NW	3.1	5	W
20250414.12	0.41	NW	2.8	6	E
20250414.15	0.50	W	2.6	7	S
20250414.18	0.59	W	2.7	7	SW
20250414.21	0.68	W	2.9	8	SW
20250415.00	0.82	SW	3.2	9	SW
20250415.03	1.02	SW	3.5	10	W
20250415.06	1.28	SW	3.9	10	W
20250415.09	1.34	SW	4.3	7	W
20250415.12	1.24	SW	4.7	4	W
20250415.15	1.13	SW	4.8	6	SW
20250415.18	1.15	SW	4.5	8	SW
20250415.21	1.16	SW	4.4	7	SW
20250416.00	1.13	SW	4.4	7	SW
20250416.03	1.09	SW	4.3	7	SW
20250416.06	1.06	SW	4.2	7	SW
20250416.09	1.13	SW	4.1	9	SW
20250416.12	1.27	SW	4.2	10	S
20250416.15	1.36	SW	4.4	9	S
20250416.18	1.32	SW	4.4	8	S
20250416.21	1.22	SW	4.4	8	S
20250417.00	1.10	SW	4.3	7	E
20250417.03	1.00	SW	4.1	7	E
20250417.06	0.92	SW	3.9	7	E
20250417.09	0.84	SW	3.7	6	E
20250417.12	0.77	SW	3.6	6	E
20250417.15	0.68	SW	3.5	5	SE
20250417.18	0.59	SW	3.6	3	SE
20250417.21	0.51	SW	3.7	3	SE
20250418.00	0.46	SW	3.6	3	SE
20250418.03	0.43	SW	3.5	3	SE
20250418.06	0.39	SW	3.6	2	SE
20250418.09	0.36	SW	3.6	2	SE
20250418.12	0.32	SW	3.6	1	E
20250418.15	0.30	SW	3.5	3	W
20250418.18	0.28	SW	3.1	5	NW
20250418.21	0.29	SW	2.6	4	N
20250419.00	0.27	SW	2.6	2	N

Wind condition in the Fort-Shevchenko

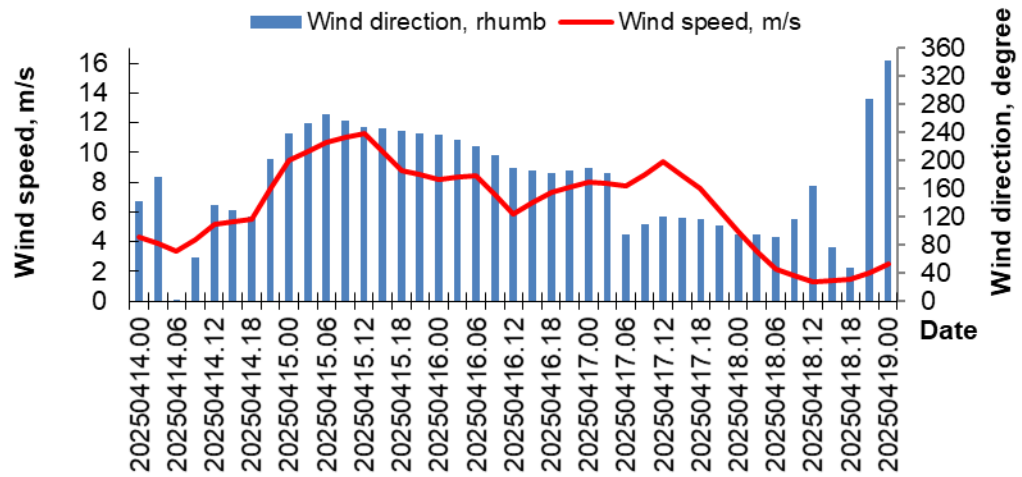


Wave condition in the Fort-Shevchenko

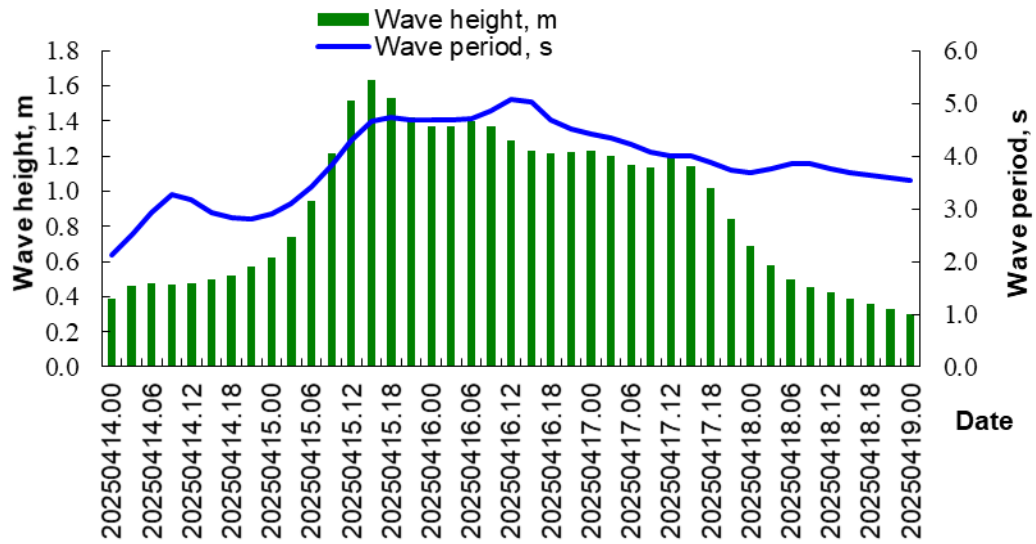


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250414.00	0.54	NW	2.5	6	SE
20250414.03	0.66	NW	2.9	4	E
20250414.06	0.66	NW	3.3	2	NW
20250414.09	0.53	NW	3.4	2	W
20250414.12	0.48	NW	2.9	6	SE
20250414.15	0.56	W	2.7	7	E
20250414.18	0.65	W	2.9	8	S
20250414.21	0.73	W	3.1	8	SW
20250415.00	0.81	SW	3.2	9	SW
20250415.03	0.95	SW	3.5	9	W
20250415.06	1.15	SW	3.8	10	N
20250415.09	1.19	SW	4.1	8	W
20250415.12	1.11	SW	4.4	6	W
20250415.15	1.07	SW	4.5	7	W
20250415.18	1.11	SW	4.3	8	SW
20250415.21	1.14	SW	4.2	8	SW
20250416.00	1.13	SW	4.2	8	SW
20250416.03	1.12	SW	4.2	8	SW
20250416.06	1.13	SW	4.2	8	SW
20250416.09	1.19	SW	4.1	9	S
20250416.12	1.30	SW	4.2	9	S
20250416.15	1.40	SW	4.4	10	S
20250416.18	1.48	SW	4.5	10	S
20250416.21	1.43	SW	4.5	9	S
20250417.00	1.29	SW	4.4	8	E
20250417.03	1.13	SW	4.3	7	E
20250417.06	1.00	SW	4.0	7	E
20250417.09	0.90	SW	3.8	6	E
20250417.12	0.83	W	3.6	6	E
20250417.15	0.74	W	3.5	5	SE
20250417.18	0.65	W	3.5	3	SE
20250417.21	0.57	W	3.4	3	SE
20250418.00	0.51	SW	3.3	3	SE
20250418.03	0.46	SW	3.4	3	SE
20250418.06	0.41	SW	3.5	2	SE
20250418.09	0.38	SW	3.6	2	SE
20250418.12	0.34	SW	3.7	1	E
20250418.15	0.32	SW	3.6	3	W
20250418.18	0.30	SW	3.5	5	NW
20250418.21	0.28	SW	3.2	4	N
20250419.00	0.28	SW	2.8	2	N

Wind condition in the Aktau

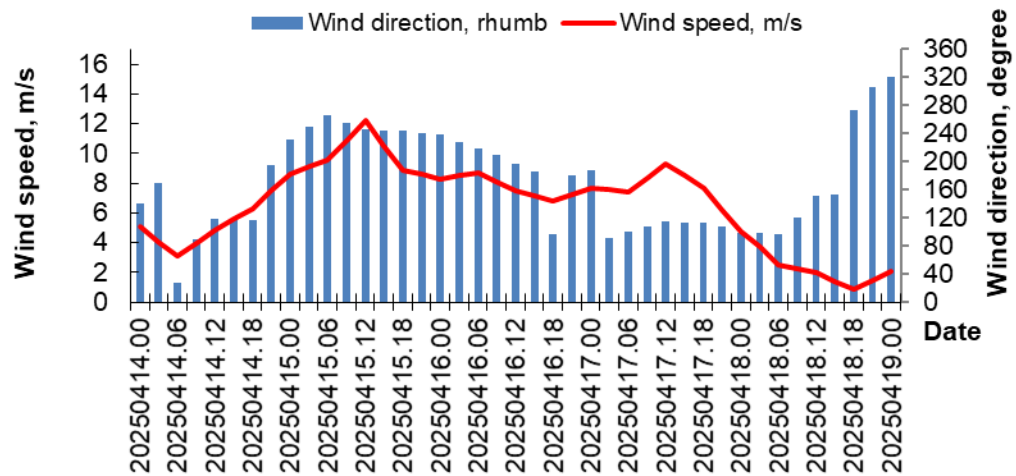


Wave condition in the Aktau

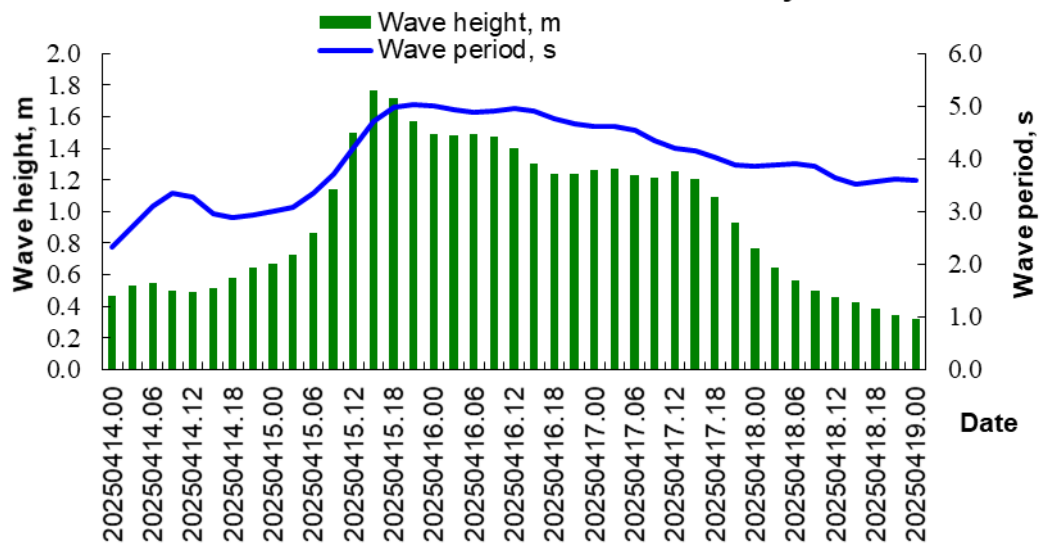


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250414.00	0.39	NW	2.1	4	SE
20250414.03	0.46	NW	2.5	4	S
20250414.06	0.48	NW	2.9	3	N
20250414.09	0.47	NW	3.3	4	NE
20250414.12	0.48	NW	3.2	5	SE
20250414.15	0.50	NW	2.9	5	SE
20250414.18	0.52	NW	2.8	6	SE
20250414.21	0.57	NW	2.8	7	S
20250415.00	0.62	W	2.9	9	SW
20250415.03	0.74	SW	3.1	10	W
20250415.06	0.94	SW	3.4	11	W
20250415.09	1.22	SW	3.8	11	W
20250415.12	1.51	SW	4.3	11	W
20250415.15	1.63	SW	4.6	10	SW
20250415.18	1.53	S	4.7	9	SW
20250415.21	1.42	S	4.7	9	SW
20250416.00	1.37	S	4.7	8	SW
20250416.03	1.37	S	4.7	8	SW
20250416.06	1.40	S	4.7	8	SW
20250416.09	1.37	S	4.8	7	SW
20250416.12	1.29	S	5.1	6	S
20250416.15	1.23	S	5.0	7	S
20250416.18	1.22	SW	4.7	7	S
20250416.21	1.23	SW	4.5	8	S
20250417.00	1.23	SW	4.4	8	S
20250417.03	1.20	W	4.3	8	S
20250417.06	1.15	W	4.2	8	E
20250417.09	1.14	W	4.1	9	E
20250417.12	1.19	W	4.0	9	SE
20250417.15	1.14	W	4.0	8	SE
20250417.18	1.01	W	3.9	8	SE
20250417.21	0.84	W	3.7	6	E
20250418.00	0.69	W	3.7	5	E
20250418.03	0.58	W	3.8	3	E
20250418.06	0.50	W	3.9	2	E
20250418.09	0.45	W	3.8	2	SE
20250418.12	0.42	W	3.8	1	S
20250418.15	0.39	W	3.7	1	E
20250418.18	0.36	W	3.6	1	NE
20250418.21	0.33	W	3.6	2	W
20250419.00	0.30	W	3.5	3	N

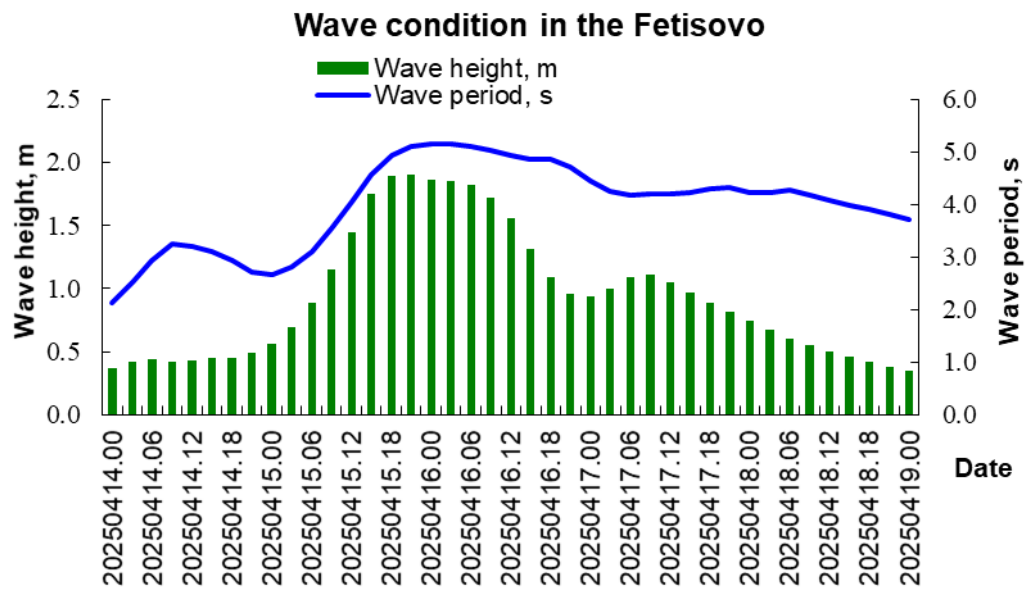
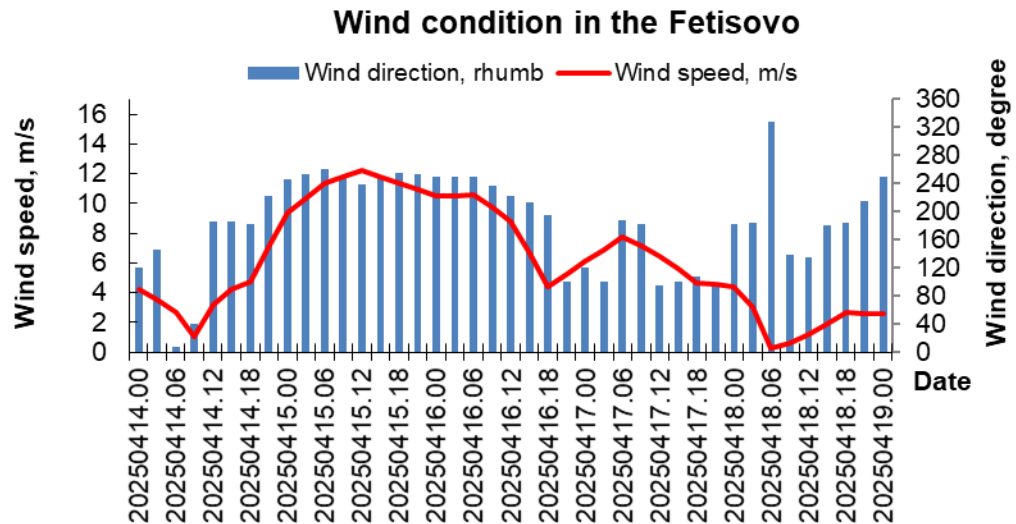
Wind condition in the Peschanyi



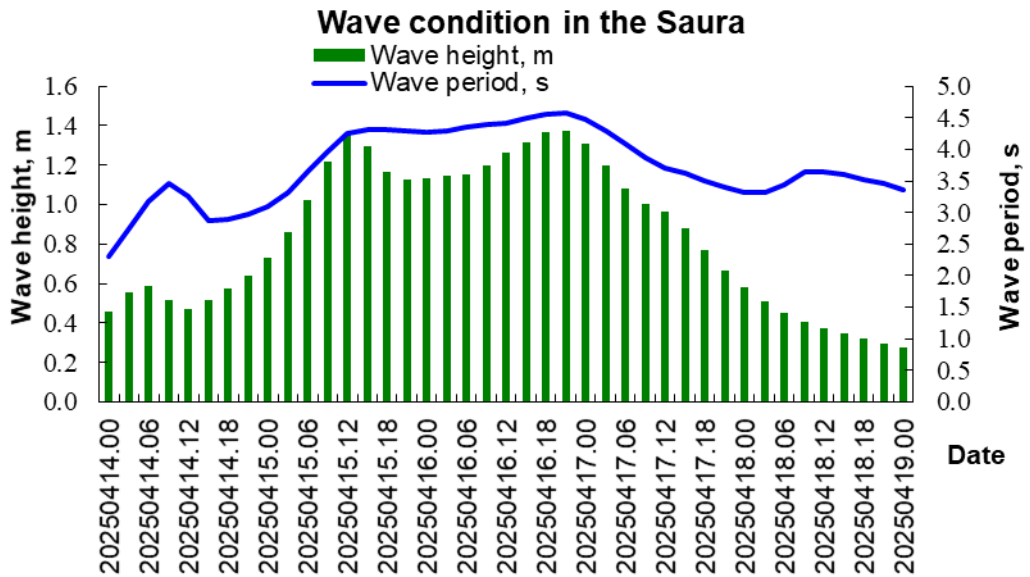
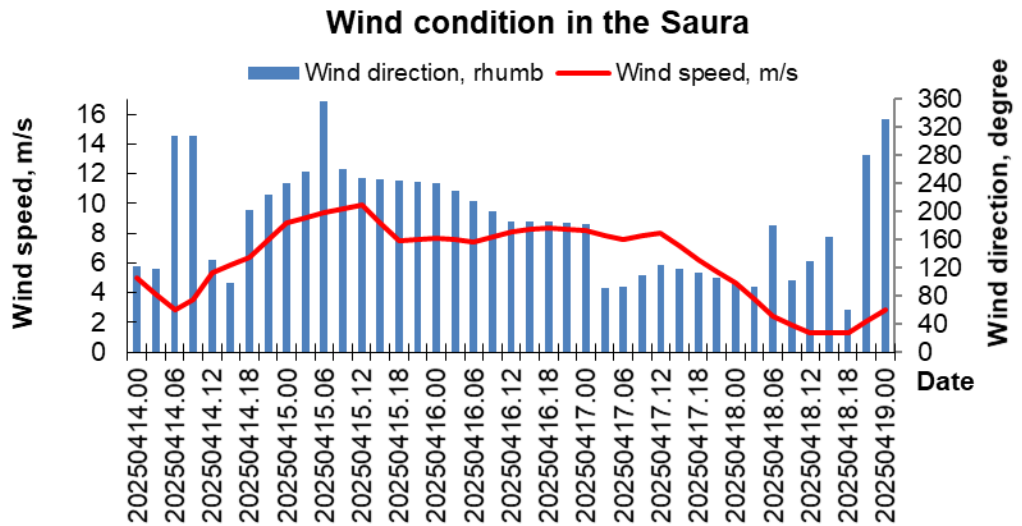
Wave condition in the Peschanyi



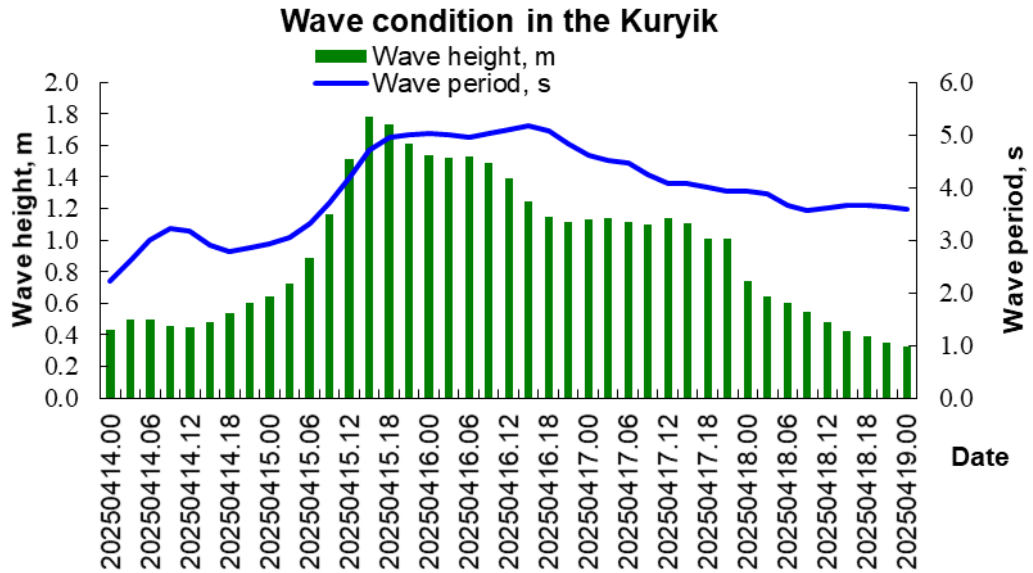
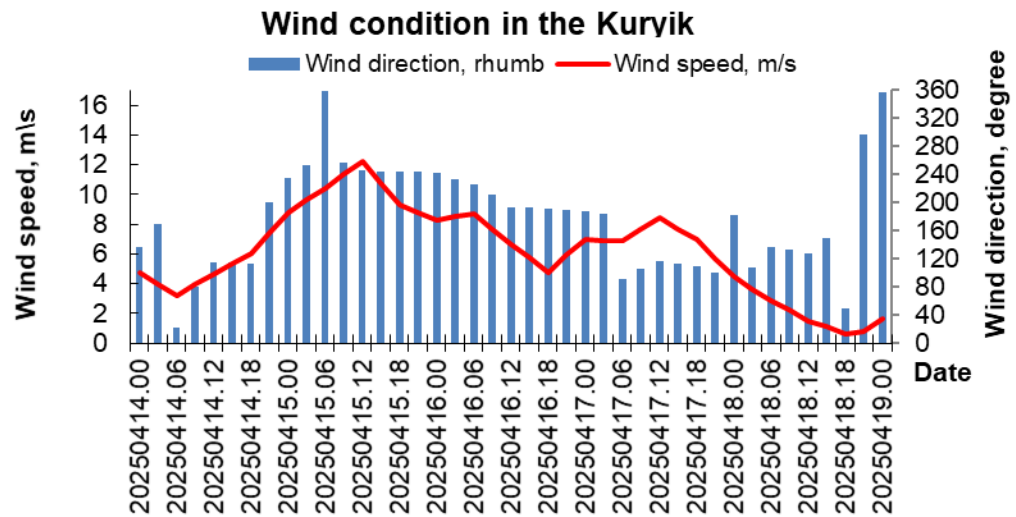
Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250414.00	0.47	NW	2.3	5	SE
20250414.03	0.53	NW	2.7	4	S
20250414.06	0.55	NW	3.1	3	NE
20250414.09	0.50	NW	3.4	4	E
20250414.12	0.49	NW	3.3	5	SE
20250414.15	0.52	NW	3.0	6	SE
20250414.18	0.58	NW	2.9	6	SE
20250414.21	0.64	NW	2.9	7	S
20250415.00	0.67	W	3.0	9	SW
20250415.03	0.73	W	3.1	9	W
20250415.06	0.87	SW	3.3	10	W
20250415.09	1.14	SW	3.7	11	W
20250415.12	1.50	SW	4.2	12	SW
20250415.15	1.76	SW	4.7	11	SW
20250415.18	1.71	SW	5.0	9	SW
20250415.21	1.57	S	5.0	9	SW
20250416.00	1.49	S	5.0	8	SW
20250416.03	1.48	S	4.9	8	SW
20250416.06	1.49	S	4.9	9	SW
20250416.09	1.47	S	4.9	8	SW
20250416.12	1.40	SW	5.0	8	S
20250416.15	1.30	SW	4.9	7	S
20250416.18	1.24	SW	4.8	7	E
20250416.21	1.24	SW	4.7	7	S
20250417.00	1.26	W	4.6	8	S
20250417.03	1.27	W	4.6	8	E
20250417.06	1.23	W	4.5	7	E
20250417.09	1.21	W	4.3	8	E
20250417.12	1.25	W	4.2	9	SE
20250417.15	1.20	W	4.2	8	SE
20250417.18	1.09	W	4.0	8	SE
20250417.21	0.93	W	3.9	6	E
20250418.00	0.77	W	3.9	5	E
20250418.03	0.65	W	3.9	4	E
20250418.06	0.56	W	3.9	3	E
20250418.09	0.50	W	3.9	2	SE
20250418.12	0.46	W	3.6	2	SE
20250418.15	0.42	W	3.5	1	SE
20250418.18	0.38	W	3.6	1	W
20250418.21	0.35	W	3.6	1	NW
20250419.00	0.32	W	3.6	2	NW



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250414.00	0.37	NW	2.1	4	SE
20250414.03	0.42	NW	2.5	4	SE
20250414.06	0.43	NW	2.9	3	N
20250414.09	0.42	NW	3.3	1	NE
20250414.12	0.43	NW	3.2	3	S
20250414.15	0.45	NW	3.1	4	S
20250414.18	0.45	NW	2.9	5	S
20250414.21	0.49	NW	2.7	7	SW
20250415.00	0.57	W	2.7	9	SW
20250415.03	0.69	SW	2.8	10	W
20250415.06	0.88	SW	3.1	11	W
20250415.09	1.15	SW	3.5	12	W
20250415.12	1.45	SW	4.0	12	SW
20250415.15	1.75	SW	4.6	12	SW
20250415.18	1.90	SW	4.9	11	W
20250415.21	1.91	S	5.1	11	W
20250416.00	1.87	S	5.2	10	W
20250416.03	1.85	S	5.1	11	W
20250416.06	1.82	S	5.1	11	W
20250416.09	1.72	S	5.0	10	SW
20250416.12	1.56	SW	4.9	9	SW
20250416.15	1.32	SW	4.9	7	SW
20250416.18	1.09	SW	4.9	4	S
20250416.21	0.96	SW	4.7	5	E
20250417.00	0.94	SW	4.4	6	SE
20250417.03	1.00	W	4.2	7	E
20250417.06	1.09	W	4.2	8	S
20250417.09	1.11	W	4.2	7	S
20250417.12	1.05	W	4.2	6	E
20250417.15	0.97	NW	4.2	6	E
20250417.18	0.88	NW	4.3	5	E
20250417.21	0.81	NW	4.3	5	E
20250418.00	0.74	NW	4.2	4	S
20250418.03	0.67	NW	4.2	3	S
20250418.06	0.60	NW	4.3	0	NW
20250418.09	0.55	NW	4.2	1	SE
20250418.12	0.50	NW	4.1	1	SE
20250418.15	0.46	NW	4.0	2	S
20250418.18	0.42	NW	3.9	3	S
20250418.21	0.38	NW	3.8	3	SW
20250419.00	0.35	NW	3.7	3	W



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250414.00	0.46	NW	2.3	5	SE
20250414.03	0.55	NW	2.8	4	SE
20250414.06	0.59	NW	3.2	3	NW
20250414.09	0.51	NW	3.5	4	NW
20250414.12	0.47	NW	3.3	5	SE
20250414.15	0.52	NW	2.9	6	E
20250414.18	0.57	NW	2.9	6	S
20250414.21	0.64	W	3.0	8	SW
20250415.00	0.73	W	3.1	9	SW
20250415.03	0.86	SW	3.3	9	W
20250415.06	1.02	SW	3.6	9	N
20250415.09	1.22	S	4.0	10	W
20250415.12	1.36	S	4.3	10	W
20250415.15	1.29	S	4.3	9	SW
20250415.18	1.17	S	4.3	7	SW
20250415.21	1.13	SW	4.3	8	SW
20250416.00	1.14	S	4.3	8	SW
20250416.03	1.14	S	4.3	8	SW
20250416.06	1.15	S	4.4	7	SW
20250416.09	1.20	SW	4.4	8	S
20250416.12	1.26	SW	4.4	8	S
20250416.15	1.32	SW	4.5	8	S
20250416.18	1.37	SW	4.6	8	S
20250416.21	1.37	SW	4.6	8	S
20250417.00	1.31	SW	4.5	8	S
20250417.03	1.20	SW	4.3	8	E
20250417.06	1.08	SW	4.1	8	E
20250417.09	1.00	W	3.9	8	E
20250417.12	0.96	W	3.7	8	SE
20250417.15	0.88	W	3.6	7	SE
20250417.18	0.77	W	3.5	6	SE
20250417.21	0.67	W	3.4	5	E
20250418.00	0.58	W	3.3	5	E
20250418.03	0.51	W	3.3	4	E
20250418.06	0.45	W	3.4	2	S
20250418.09	0.40	W	3.6	2	E
20250418.12	0.37	W	3.7	1	SE
20250418.15	0.34	W	3.6	1	S
20250418.18	0.32	W	3.5	1	NE
20250418.21	0.30	W	3.5	2	W
20250419.00	0.28	W	3.4	3	NW



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250414.00	0.43	NW	2.2	5	SE
20250414.03	0.49	NW	2.6	4	S
20250414.06	0.50	NW	3.0	3	NE
20250414.09	0.46	NW	3.2	4	E
20250414.12	0.45	NW	3.2	5	SE
20250414.15	0.48	NW	2.9	5	SE
20250414.18	0.54	NW	2.8	6	SE
20250414.21	0.61	NW	2.8	7	S
20250415.00	0.65	W	2.9	9	SW
20250415.03	0.72	W	3.0	10	W
20250415.06	0.89	SW	3.3	10	N
20250415.09	1.17	SW	3.7	11	W
20250415.12	1.51	SW	4.2	12	SW
20250415.15	1.78	SW	4.7	11	SW
20250415.18	1.73	SW	5.0	9	SW
20250415.21	1.61	S	5.0	9	SW
20250416.00	1.54	S	5.0	8	SW
20250416.03	1.52	S	5.0	9	SW
20250416.06	1.53	S	5.0	9	SW
20250416.09	1.49	S	5.0	8	SW
20250416.12	1.39	S	5.1	7	S
20250416.15	1.25	S	5.2	6	S
20250416.18	1.14	SW	5.1	5	S
20250416.21	1.11	SW	4.8	6	S
20250417.00	1.13	SW	4.6	7	S
20250417.03	1.14	W	4.5	7	S
20250417.06	1.11	W	4.5	7	E
20250417.09	1.10	W	4.2	8	E
20250417.12	1.14	W	4.1	8	SE
20250417.15	1.11	NW	4.1	8	SE
20250417.18	1.01	NW	4.0	7	E
20250417.21	1.01	NW	3.9	6	E
20250418.00	0.74	W	3.9	4	S
20250418.03	0.65	W	3.9	4	E
20250418.06	0.60	NW	3.7	3	SE
20250418.09	0.55	NW	3.6	2	SE
20250418.12	0.48	W	3.6	1	SE
20250418.15	0.43	W	3.7	1	SE
20250418.18	0.39	W	3.7	1	NE
20250418.21	0.35	W	3.6	1	NW
20250419.00	0.32	W	3.6	2	N

**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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