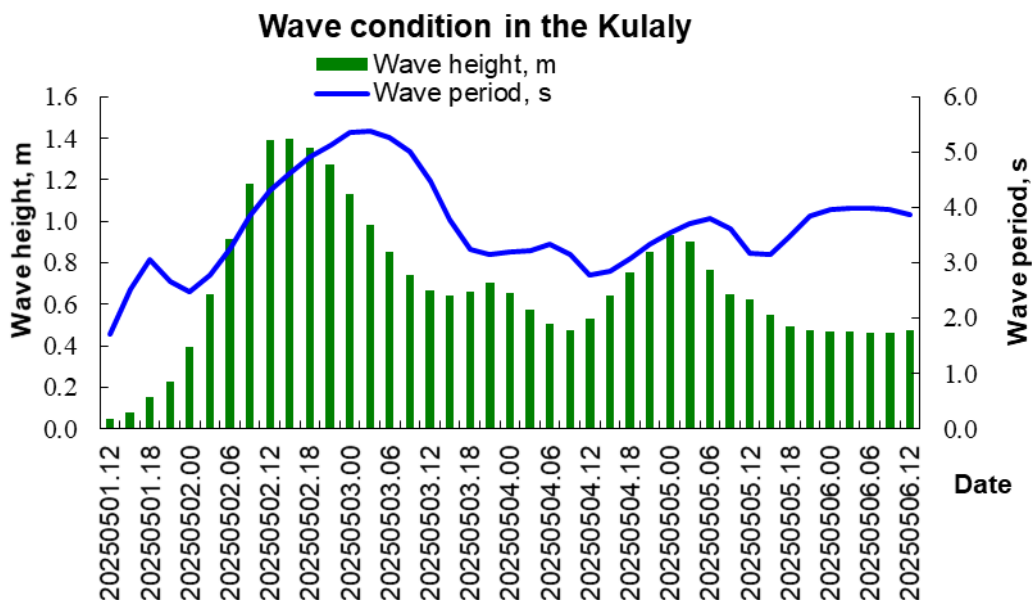
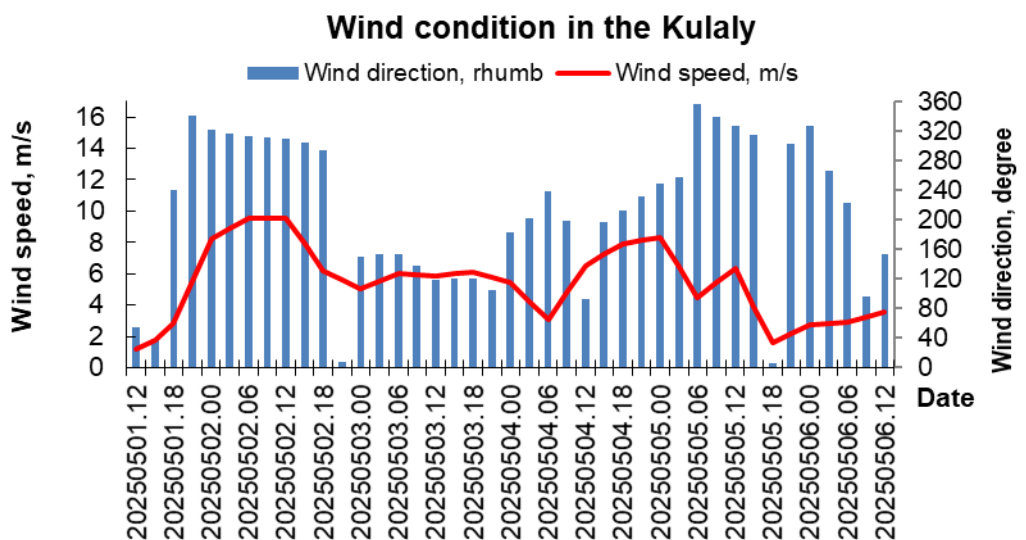




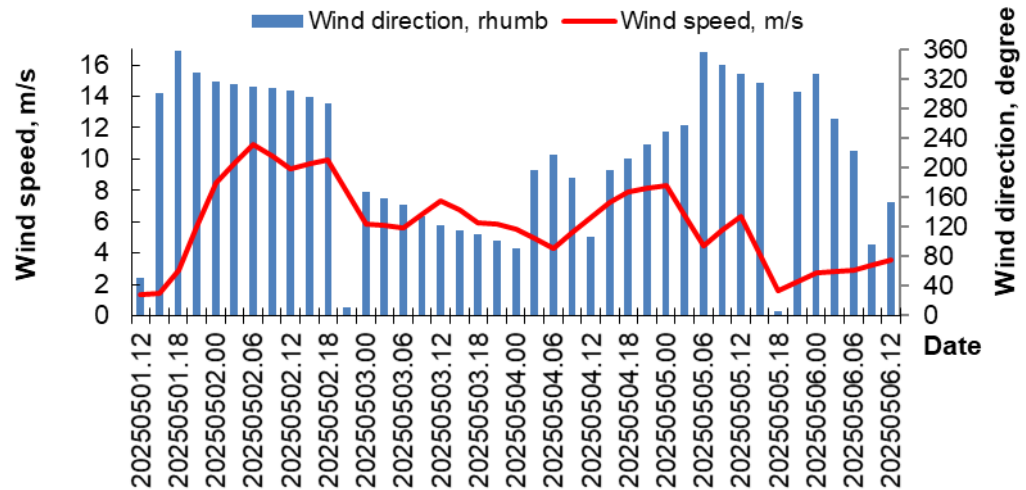
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 01-06, 2025.**

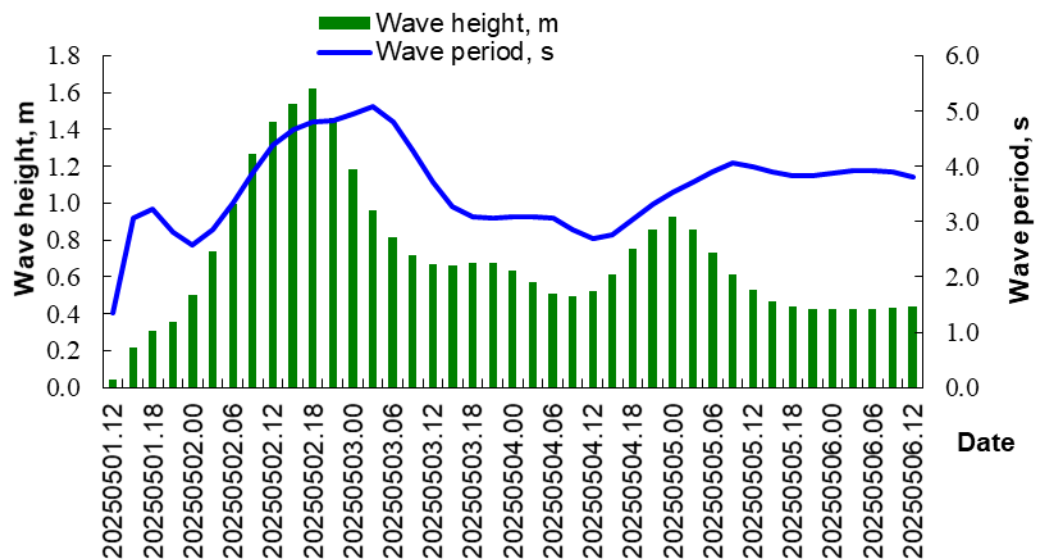


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250501.12	0.05	N	1.7	1	NE
20250501.15	0.08	E	2.5	2	NE
20250501.18	0.15	SE	3.1	3	SW
20250501.21	0.23	SE	2.7	6	N
20250502.00	0.39	SE	2.5	8	NW
20250502.03	0.65	SE	2.8	9	NW
20250502.06	0.92	SE	3.3	10	NW
20250502.09	1.18	SE	3.8	10	NW
20250502.12	1.39	E	4.3	10	NW
20250502.15	1.40	E	4.6	8	NW
20250502.18	1.35	E	4.9	6	NW
20250502.21	1.27	E	5.1	6	N
20250503.00	1.13	E	5.4	5	SE
20250503.03	0.98	E	5.4	6	SE
20250503.06	0.85	E	5.3	6	SE
20250503.09	0.74	E	5.0	6	SE
20250503.12	0.67	E	4.5	6	SE
20250503.15	0.64	SE	3.8	6	SE
20250503.18	0.66	E	3.3	6	SE
20250503.21	0.70	NW	3.2	6	E
20250504.00	0.65	W	3.2	5	S
20250504.03	0.58	W	3.2	4	S
20250504.06	0.51	W	3.3	3	SW
20250504.09	0.48	SW	3.1	5	S
20250504.12	0.53	W	2.8	6	E
20250504.15	0.64	W	2.8	7	S
20250504.18	0.75	W	3.1	8	SW
20250504.21	0.85	SW	3.3	8	SW
20250505.00	0.93	SW	3.5	8	W
20250505.03	0.90	SW	3.7	6	W
20250505.06	0.76	SW	3.8	4	N
20250505.09	0.65	SW	3.6	5	N
20250505.12	0.62	S	3.2	6	NW
20250505.15	0.55	S	3.2	4	NW
20250505.18	0.49	SW	3.5	2	N
20250505.21	0.47	SW	3.8	2	NW
20250506.00	0.47	SW	4.0	3	NW
20250506.03	0.47	SW	4.0	3	W
20250506.06	0.46	SW	4.0	3	SW
20250506.09	0.46	SW	4.0	3	E
20250506.12	0.47	SW	3.9	4	SE

Wind condition in the Fort-Shevchenko

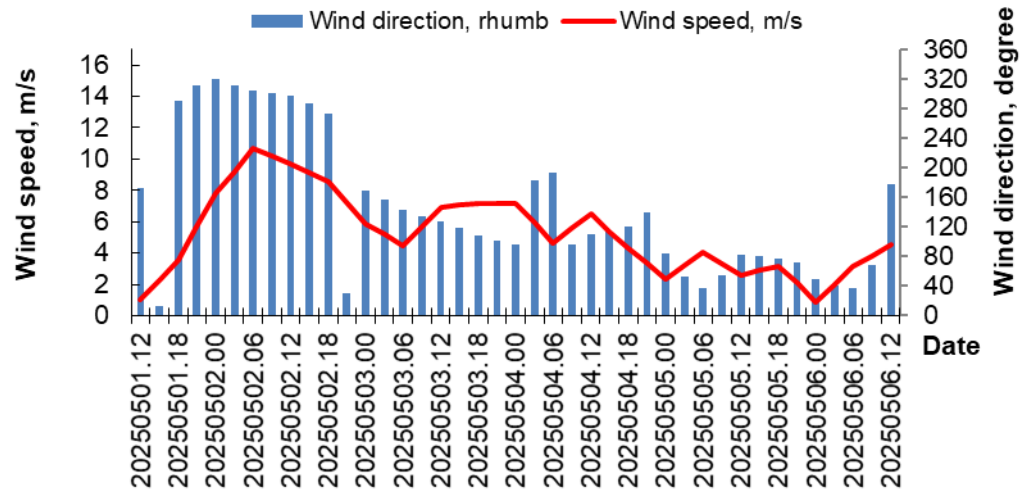


Wave condition in the Fort-Shevchenko

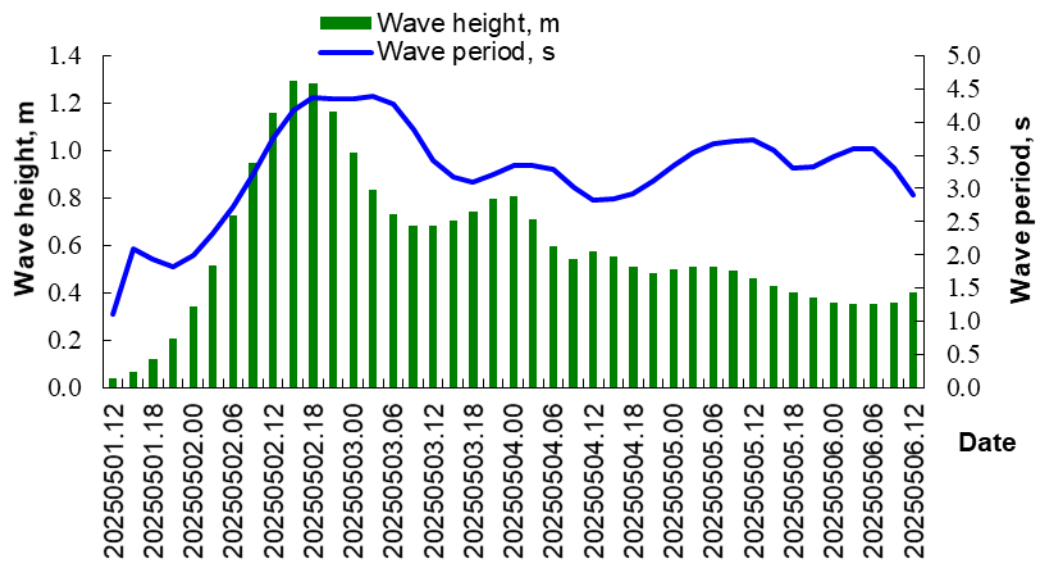


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250501.12	0.05	NE	1.4	1	NE
20250501.15	0.21	SE	3.1	1	NW
20250501.18	0.30	E	3.2	3	N
20250501.21	0.36	E	2.8	6	NW
20250502.00	0.50	SE	2.6	8	NW
20250502.03	0.74	SE	2.9	10	NW
20250502.06	1.00	SE	3.3	11	NW
20250502.09	1.27	SE	3.9	10	NW
20250502.12	1.44	E	4.4	9	NW
20250502.15	1.54	E	4.7	10	NW
20250502.18	1.62	E	4.8	10	W
20250502.21	1.46	E	4.8	8	N
20250503.00	1.19	E	4.9	6	S
20250503.03	0.96	E	5.1	6	S
20250503.06	0.81	E	4.8	6	SE
20250503.09	0.72	E	4.3	6	SE
20250503.12	0.67	E	3.7	7	SE
20250503.15	0.66	E	3.3	7	SE
20250503.18	0.68	NE	3.1	6	E
20250503.21	0.67	NW	3.1	6	E
20250504.00	0.64	W	3.1	6	E
20250504.03	0.57	W	3.1	5	S
20250504.06	0.51	W	3.1	4	SW
20250504.09	0.49	W	2.9	5	S
20250504.12	0.52	W	2.7	6	E
20250504.15	0.61	W	2.8	7	S
20250504.18	0.75	W	3.0	8	SW
20250504.21	0.86	W	3.3	8	SW
20250505.00	0.92	SW	3.5	8	W
20250505.03	0.86	SW	3.7	6	W
20250505.06	0.73	SW	3.9	4	N
20250505.09	0.61	SW	4.1	5	N
20250505.12	0.53	SW	4.0	6	NW
20250505.15	0.47	SW	3.9	4	NW
20250505.18	0.44	SW	3.8	2	N
20250505.21	0.43	SW	3.8	2	NW
20250506.00	0.42	SW	3.9	3	NW
20250506.03	0.43	SW	3.9	3	W
20250506.06	0.43	SW	3.9	3	SW
20250506.09	0.43	SW	3.9	3	E
20250506.12	0.44	SW	3.8	4	SE

Wind condition in the Aktau

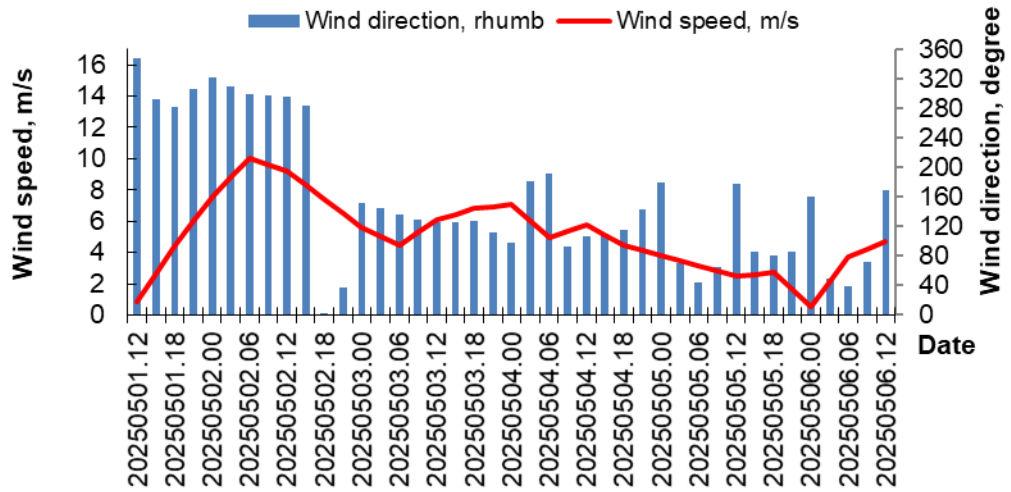


Wave condition in the Aktau

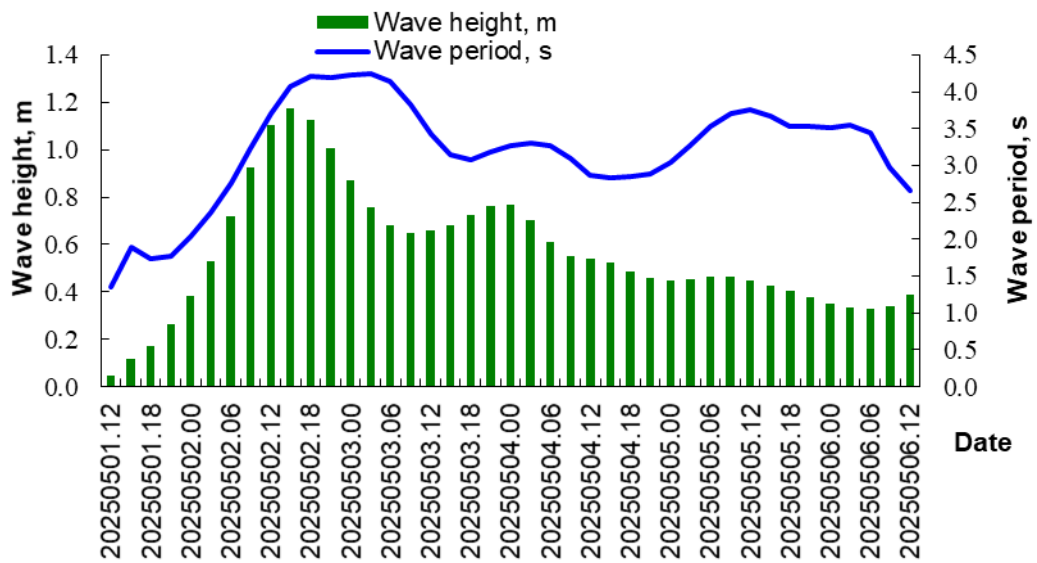


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250501.12	0.04	N	1.1	1	S
20250501.15	0.06	NE	2.1	2	N
20250501.18	0.12	E	1.9	4	W
20250501.21	0.21	E	1.8	6	NW
20250502.00	0.34	SE	2.0	8	NW
20250502.03	0.52	SE	2.3	9	NW
20250502.06	0.73	SE	2.7	11	NW
20250502.09	0.95	SE	3.2	10	NW
20250502.12	1.16	E	3.7	10	NW
20250502.15	1.29	E	4.2	9	W
20250502.18	1.28	E	4.4	9	W
20250502.21	1.17	E	4.3	7	NE
20250503.00	0.99	E	4.4	6	S
20250503.03	0.83	E	4.4	5	SE
20250503.06	0.73	E	4.3	4	SE
20250503.09	0.68	E	3.9	6	SE
20250503.12	0.68	E	3.4	7	SE
20250503.15	0.71	E	3.2	7	SE
20250503.18	0.74	NW	3.1	7	E
20250503.21	0.80	NW	3.2	7	E
20250504.00	0.81	NW	3.3	7	E
20250504.03	0.71	W	3.3	6	S
20250504.06	0.60	W	3.3	5	S
20250504.09	0.54	W	3.0	6	E
20250504.12	0.57	W	2.8	6	E
20250504.15	0.56	W	2.8	5	SE
20250504.18	0.51	W	2.9	4	SE
20250504.21	0.48	W	3.1	3	SE
20250505.00	0.50	W	3.3	2	E
20250505.03	0.51	W	3.5	3	NE
20250505.06	0.51	W	3.7	4	NE
20250505.09	0.49	W	3.7	3	NE
20250505.12	0.46	W	3.7	3	E
20250505.15	0.43	W	3.6	3	E
20250505.18	0.40	W	3.3	3	E
20250505.21	0.38	SW	3.3	2	E
20250506.00	0.36	SW	3.5	1	NE
20250506.03	0.35	SW	3.6	2	NE
20250506.06	0.35	SW	3.6	3	NE
20250506.09	0.36	SW	3.3	4	E
20250506.12	0.40	W	2.9	5	S

Wind condition in the Peschanyi

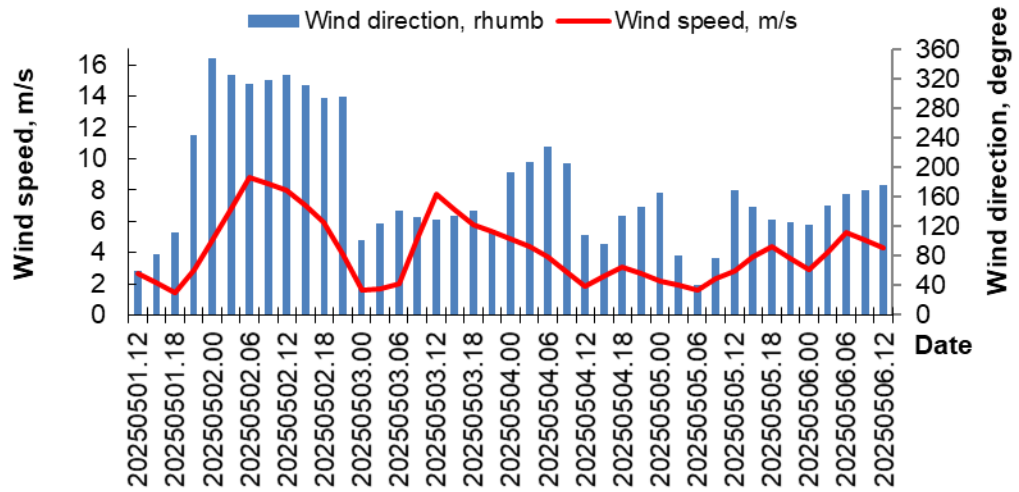


Wave condition in the Peschanyi

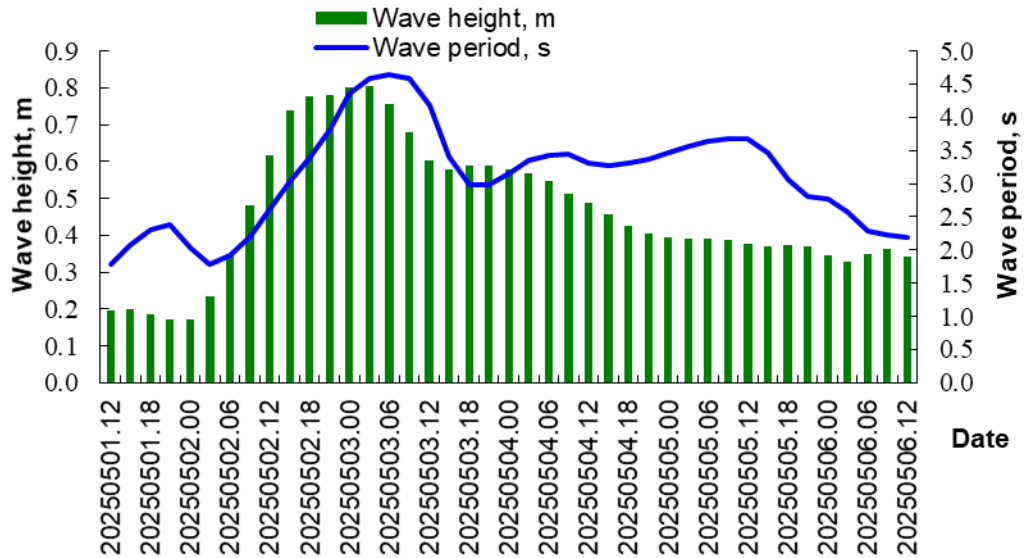


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250501.12	0.05	SE	1.3	1	N
20250501.15	0.12	E	1.9	3	W
20250501.18	0.17	E	1.7	4	W
20250501.21	0.26	E	1.8	6	NW
20250502.00	0.38	SE	2.0	8	NW
20250502.03	0.53	SE	2.4	9	NW
20250502.06	0.72	SE	2.8	10	NW
20250502.09	0.93	E	3.2	10	NW
20250502.12	1.11	E	3.7	9	NW
20250502.15	1.18	E	4.1	8	W
20250502.18	1.12	E	4.2	7	N
20250502.21	1.01	E	4.2	7	NE
20250503.00	0.87	E	4.2	6	SE
20250503.03	0.76	E	4.2	5	SE
20250503.06	0.68	E	4.1	4	SE
20250503.09	0.65	SE	3.8	5	SE
20250503.12	0.66	SE	3.4	6	SE
20250503.15	0.68	SE	3.1	6	SE
20250503.18	0.72	NW	3.1	7	SE
20250503.21	0.76	NW	3.2	7	E
20250504.00	0.77	W	3.3	7	E
20250504.03	0.71	W	3.3	6	S
20250504.06	0.61	W	3.3	5	S
20250504.09	0.55	W	3.1	5	E
20250504.12	0.54	W	2.9	6	E
20250504.15	0.52	W	2.8	5	E
20250504.18	0.48	W	2.8	4	SE
20250504.21	0.46	W	2.9	4	SE
20250505.00	0.45	W	3.0	4	S
20250505.03	0.46	W	3.3	3	E
20250505.06	0.46	W	3.5	3	NE
20250505.09	0.46	W	3.7	3	NE
20250505.12	0.45	W	3.8	2	S
20250505.15	0.43	W	3.7	3	E
20250505.18	0.40	W	3.5	3	E
20250505.21	0.38	W	3.5	2	E
20250506.00	0.35	W	3.5	1	S
20250506.03	0.34	W	3.6	2	NE
20250506.06	0.33	SW	3.4	4	NE
20250506.09	0.34	W	3.0	4	E
20250506.12	0.39	W	2.7	5	S

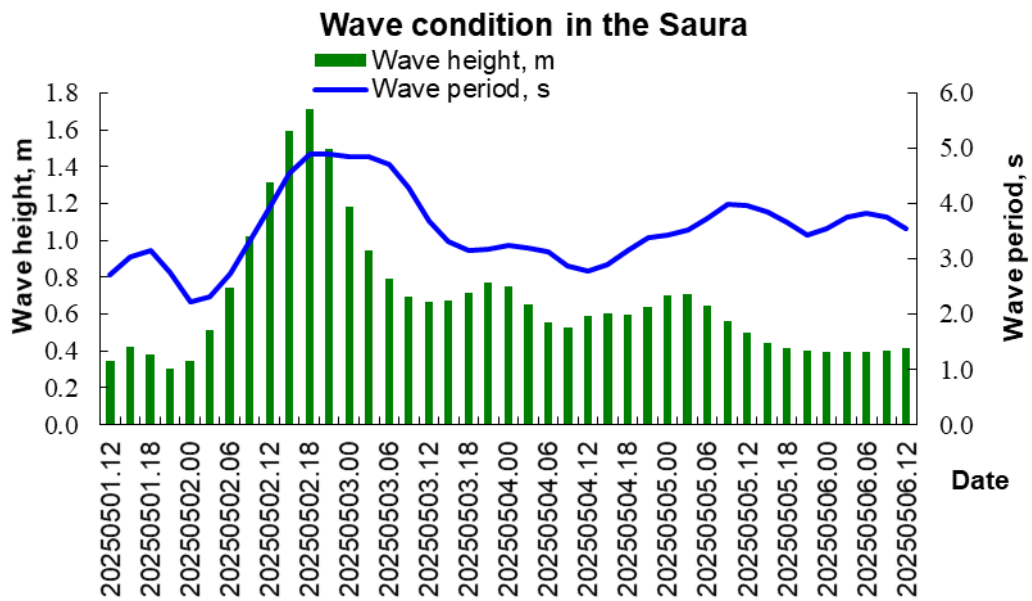
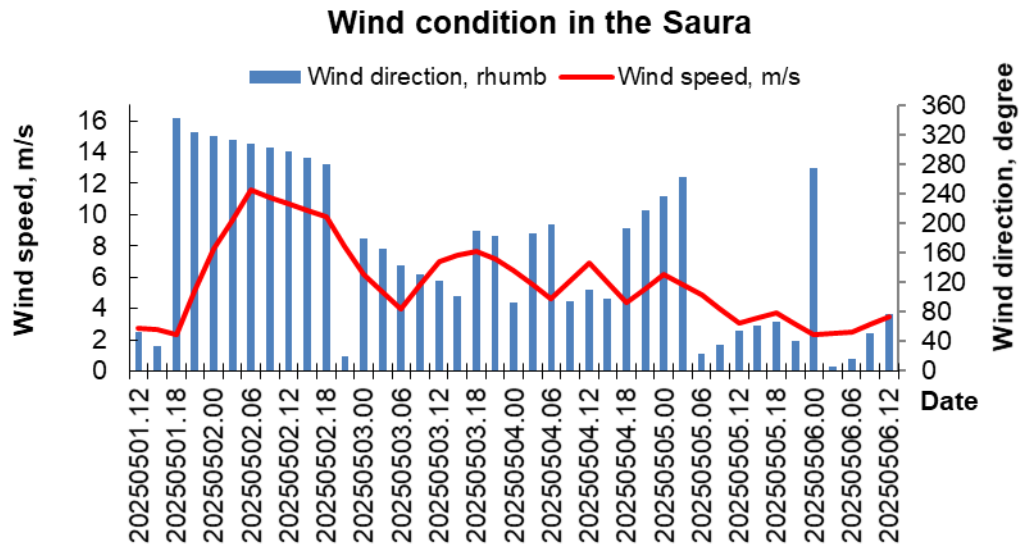
Wind condition in the Fetisovo



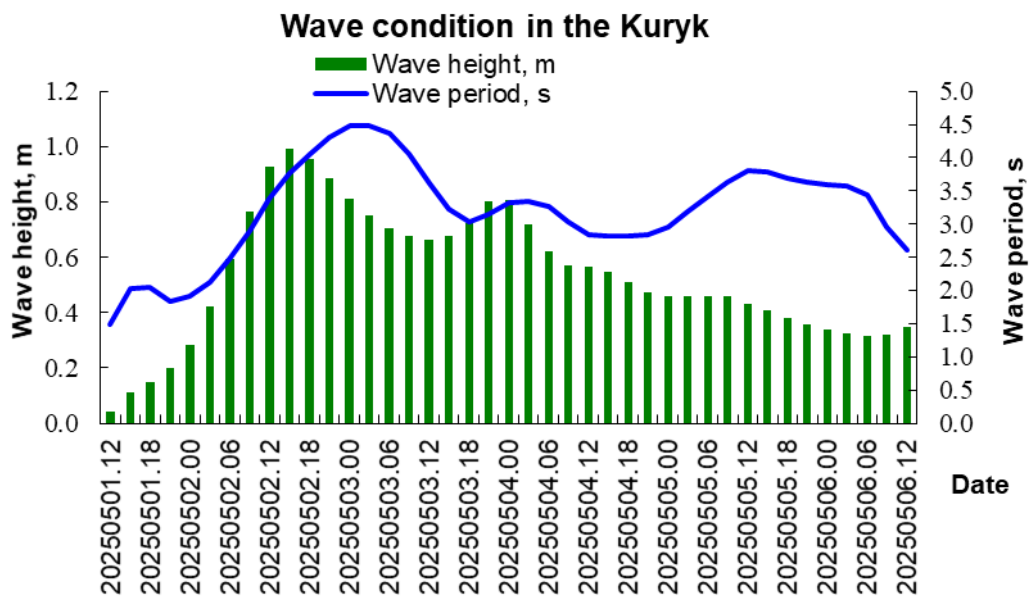
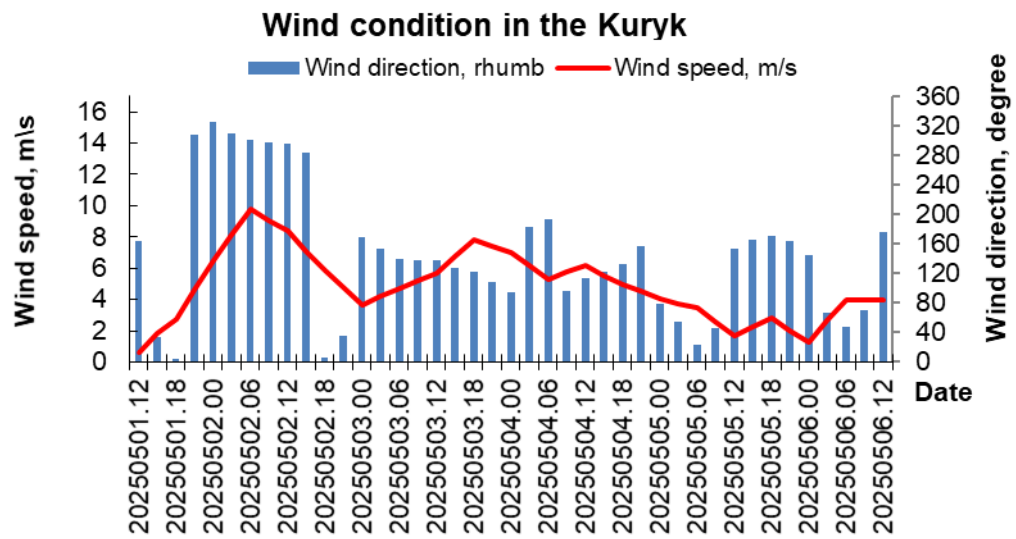
Wave condition in the Fetisovo



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250501.12	0.20	NE	1.8	3	NE
20250501.15	0.20	NE	2.1	2	E
20250501.18	0.19	NE	2.3	1	E
20250501.21	0.17	N	2.4	3	SW
20250502.00	0.17	N	2.0	5	N
20250502.03	0.23	SE	1.8	7	NW
20250502.06	0.35	SE	1.9	9	NW
20250502.09	0.48	SE	2.2	8	NW
20250502.12	0.62	SE	2.6	8	NW
20250502.15	0.74	SE	3.0	7	NW
20250502.18	0.78	SE	3.4	6	NW
20250502.21	0.78	SE	3.8	4	NW
20250503.00	0.80	SE	4.4	2	E
20250503.03	0.80	SE	4.6	2	SE
20250503.06	0.76	SE	4.7	2	SE
20250503.09	0.68	SE	4.6	5	SE
20250503.12	0.60	SE	4.2	8	SE
20250503.15	0.58	SE	3.4	7	SE
20250503.18	0.59	N	3.0	6	SE
20250503.21	0.59	NW	3.0	5	SE
20250504.00	0.58	NW	3.2	5	S
20250504.03	0.57	NW	3.3	4	SW
20250504.06	0.55	NW	3.4	4	SW
20250504.09	0.51	NW	3.4	3	SW
20250504.12	0.49	NW	3.3	2	E
20250504.15	0.46	NW	3.3	2	E
20250504.18	0.43	NW	3.3	3	SE
20250504.21	0.41	NW	3.4	3	SE
20250505.00	0.39	NW	3.5	2	S
20250505.03	0.39	NW	3.6	2	E
20250505.06	0.39	W	3.6	2	NE
20250505.09	0.39	W	3.7	2	E
20250505.12	0.38	W	3.7	3	S
20250505.15	0.37	W	3.5	4	SE
20250505.18	0.37	W	3.1	4	SE
20250505.21	0.37	W	2.8	4	SE
20250506.00	0.34	W	2.8	3	SE
20250506.03	0.33	W	2.6	4	SE
20250506.06	0.35	NW	2.3	5	S
20250506.09	0.36	NW	2.2	5	S
20250506.12	0.34	NW	2.2	4	S



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250501.12	0.34	E	2.7	3	NE
20250501.15	0.42	E	3.0	3	NE
20250501.18	0.38	NE	3.1	2	N
20250501.21	0.31	E	2.8	5	NW
20250502.00	0.35	E	2.2	8	NW
20250502.03	0.51	SE	2.3	10	NW
20250502.06	0.74	SE	2.7	12	NW
20250502.09	1.02	E	3.3	11	NW
20250502.12	1.31	E	3.9	11	NW
20250502.15	1.59	E	4.5	10	W
20250502.18	1.71	E	4.9	10	W
20250502.21	1.49	E	4.9	8	N
20250503.00	1.18	E	4.9	6	S
20250503.03	0.94	E	4.9	5	S
20250503.06	0.79	E	4.7	4	SE
20250503.09	0.70	E	4.3	5	SE
20250503.12	0.66	E	3.7	7	SE
20250503.15	0.67	E	3.3	7	E
20250503.18	0.72	N	3.2	8	S
20250503.21	0.77	NW	3.2	7	S
20250504.00	0.75	W	3.2	6	E
20250504.03	0.65	W	3.2	6	S
20250504.06	0.55	W	3.1	5	S
20250504.09	0.53	W	2.9	6	E
20250504.12	0.59	W	2.8	7	E
20250504.15	0.60	W	2.9	6	E
20250504.18	0.60	W	3.1	4	S
20250504.21	0.64	W	3.4	5	SW
20250505.00	0.70	W	3.4	6	SW
20250505.03	0.71	SW	3.5	6	W
20250505.06	0.64	SW	3.7	5	NE
20250505.09	0.56	SW	4.0	4	NE
20250505.12	0.50	SW	4.0	3	NE
20250505.15	0.45	SW	3.9	3	NE
20250505.18	0.42	SW	3.7	4	NE
20250505.21	0.40	SW	3.4	3	NE
20250506.00	0.40	SW	3.6	2	W
20250506.03	0.39	SW	3.8	2	N
20250506.06	0.40	SW	3.8	3	N
20250506.09	0.40	SW	3.8	3	NE
20250506.12	0.42	SW	3.5	3	E



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250501.12	0.04	SE	1.5	1	S
20250501.15	0.11	E	2.0	2	NE
20250501.18	0.15	E	2.0	3	N
20250501.21	0.20	E	1.8	5	NW
20250502.00	0.28	E	1.9	7	NW
20250502.03	0.42	SE	2.1	8	NW
20250502.06	0.59	SE	2.5	10	NW
20250502.09	0.76	E	2.9	9	NW
20250502.12	0.93	E	3.4	8	NW
20250502.15	0.99	E	3.8	7	W
20250502.18	0.96	E	4.1	6	N
20250502.21	0.89	E	4.3	5	NE
20250503.00	0.81	E	4.5	4	S
20250503.03	0.75	E	4.5	4	SE
20250503.06	0.70	E	4.4	5	SE
20250503.09	0.68	SE	4.1	5	SE
20250503.12	0.66	SE	3.6	6	SE
20250503.15	0.68	E	3.2	7	SE
20250503.18	0.73	NW	3.0	8	SE
20250503.21	0.80	NW	3.1	7	E
20250504.00	0.81	NW	3.3	7	E
20250504.03	0.72	NW	3.3	6	S
20250504.06	0.62	W	3.3	5	S
20250504.09	0.57	W	3.0	6	E
20250504.12	0.57	W	2.8	6	SE
20250504.15	0.55	W	2.8	6	SE
20250504.18	0.51	NW	2.8	5	SE
20250504.21	0.47	NW	2.8	5	S
20250505.00	0.46	W	3.0	4	E
20250505.03	0.46	W	3.2	4	NE
20250505.06	0.46	W	3.4	3	NE
20250505.09	0.46	W	3.6	3	NE
20250505.12	0.43	W	3.8	2	SE
20250505.15	0.41	W	3.8	2	S
20250505.18	0.38	W	3.7	3	S
20250505.21	0.36	W	3.6	2	S
20250506.00	0.34	W	3.6	1	SE
20250506.03	0.32	SW	3.6	3	NE
20250506.06	0.32	SW	3.4	4	NE
20250506.09	0.32	W	3.0	4	E
20250506.12	0.35	W	2.6	4	S

**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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