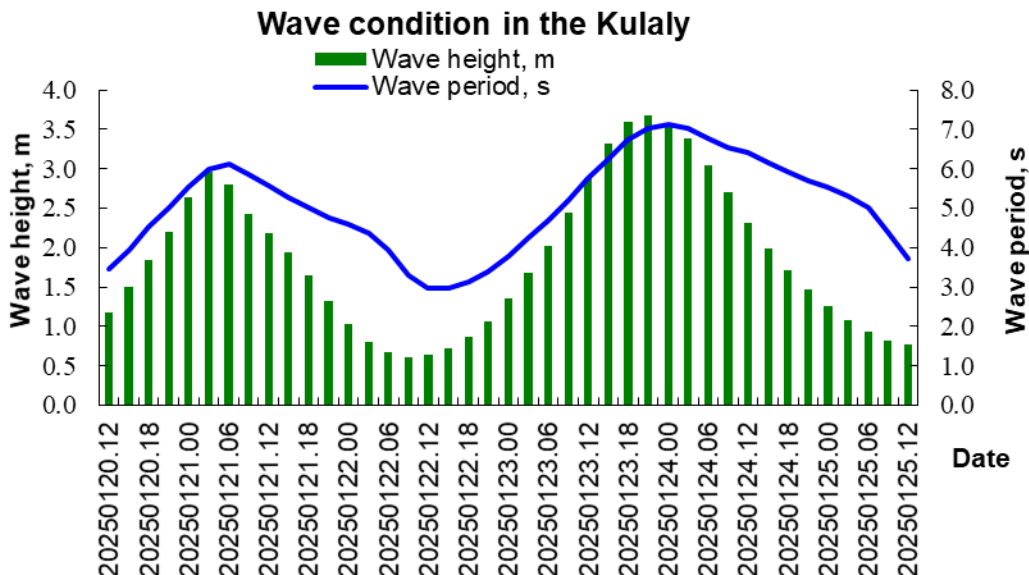
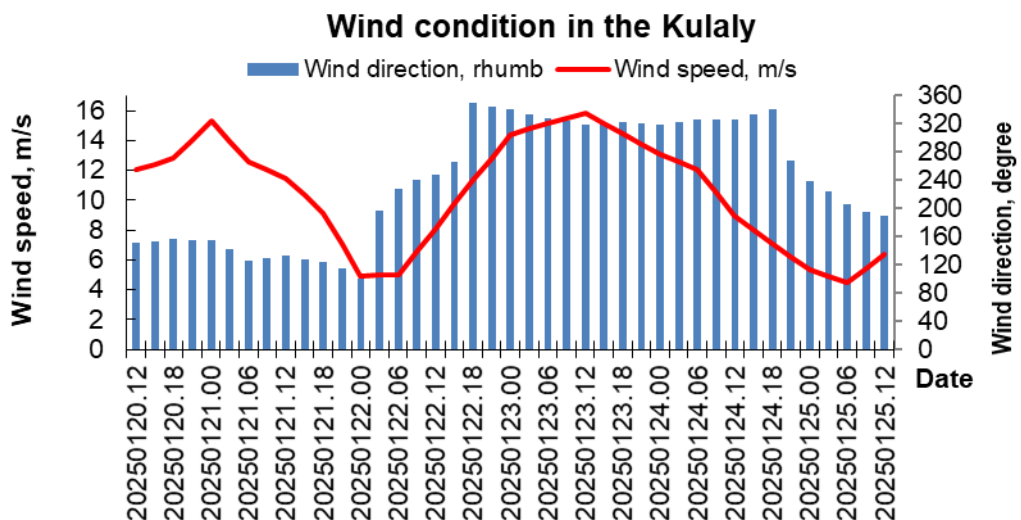




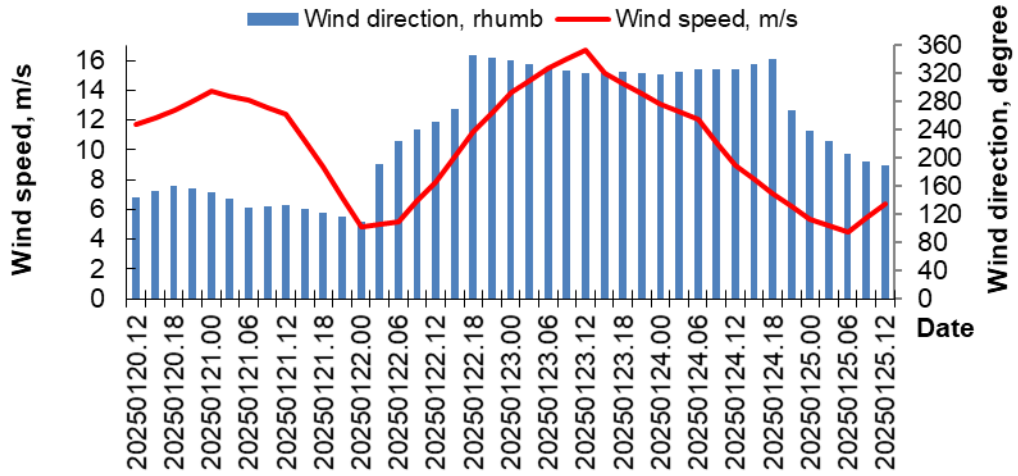
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
for the period January 20 – 25, 2025.**

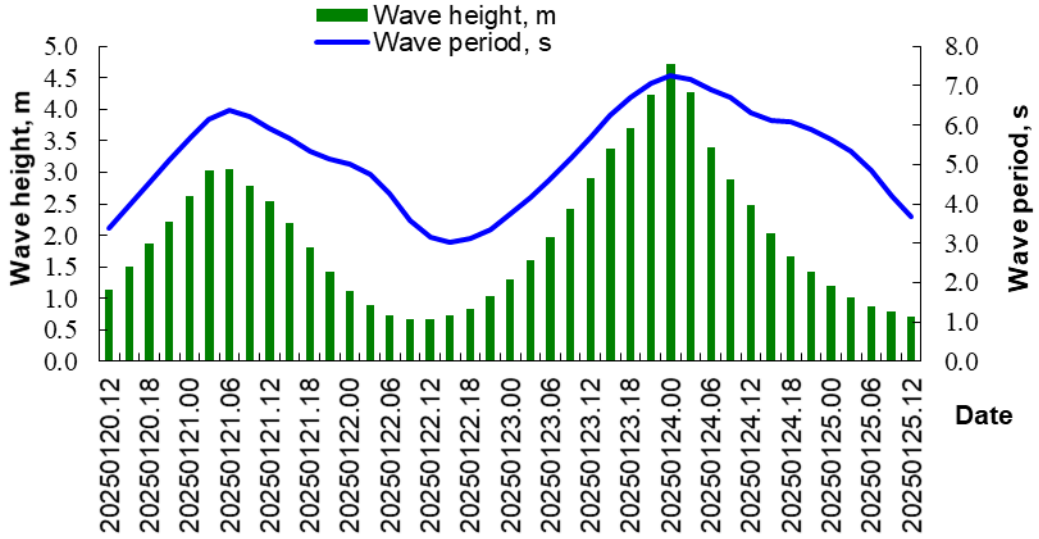


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250120.12	1.18	NW	3.4	12	SE
20250120.15	1.51	NW	4.0	12	SE
20250120.18	1.85	NW	4.5	13	SE
20250120.21	2.20	NW	5.0	14	SE
20250121.00	2.64	N	5.5	15	SE
20250121.03	2.96	NW	6.0	14	SE
20250121.06	2.80	NW	6.1	13	SE
20250121.09	2.43	NW	5.9	12	SE
20250121.12	2.18	NW	5.6	11	SE
20250121.15	1.94	NW	5.3	10	SE
20250121.18	1.64	NW	5.0	9	SE
20250121.21	1.32	NW	4.8	7	SE
20250122.00	1.02	NW	4.6	5	E
20250122.03	0.81	NW	4.4	5	S
20250122.06	0.67	NW	4.0	5	SW
20250122.09	0.61	W	3.3	7	SW
20250122.12	0.65	W	3.0	8	W
20250122.15	0.73	SW	3.0	10	W
20250122.18	0.86	SW	3.1	11	N
20250122.21	1.07	S	3.4	13	N
20250123.00	1.36	S	3.8	14	N
20250123.03	1.68	S	4.2	15	NW
20250123.06	2.02	S	4.7	15	NW
20250123.09	2.44	SE	5.2	16	NW
20250123.12	2.88	SE	5.7	16	NW
20250123.15	3.32	SE	6.3	15	NW
20250123.18	3.59	SE	6.8	15	NW
20250123.21	3.67	SE	7.0	14	NW
20250124.00	3.58	SE	7.1	13	NW
20250124.03	3.39	SE	7.0	13	NW
20250124.06	3.05	SE	6.8	12	NW
20250124.09	2.70	SE	6.5	11	NW
20250124.12	2.32	SE	6.4	9	NW
20250124.15	1.99	SE	6.2	8	NW
20250124.18	1.71	SE	5.9	7	N
20250124.21	1.47	SE	5.7	6	W
20250125.00	1.26	SE	5.5	5	SW
20250125.03	1.08	SE	5.3	5	SW
20250125.06	0.93	SE	5.0	4	SW
20250125.09	0.82	SE	4.4	5	S
20250125.12	0.77	S	3.7	6	S

Wind condition in the Fort-Shevchenko

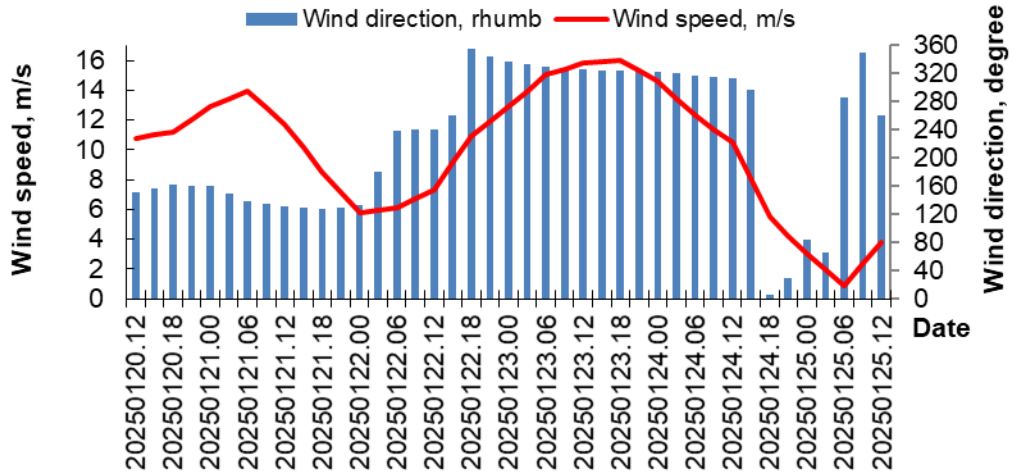


Wave condition in the Fort-Shevchenko

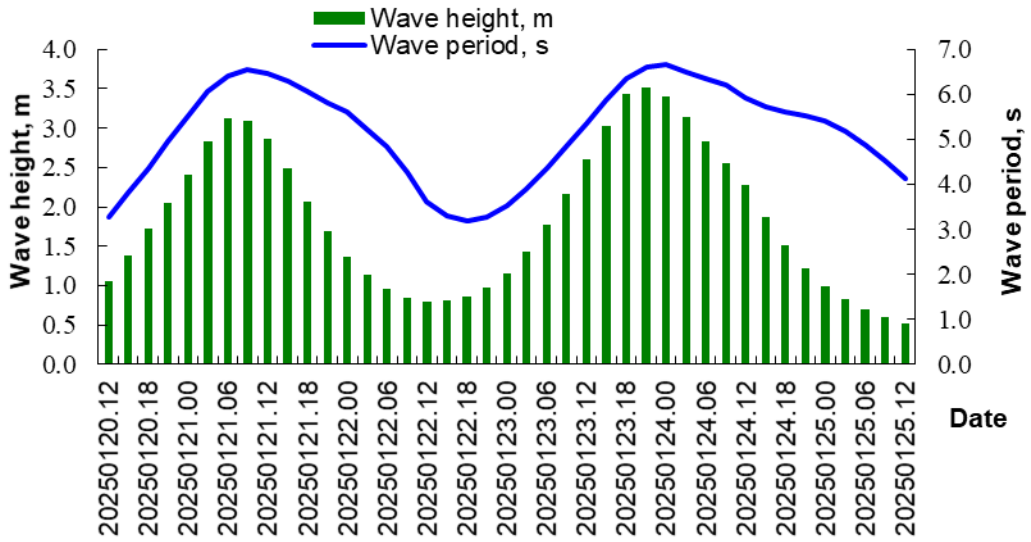


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250120.12	1.14	NW	3.4	12	SE
20250120.15	1.50	NW	4.0	12	SE
20250120.18	1.87	NW	4.5	13	S
20250120.21	2.22	NW	5.1	13	SE
20250121.00	2.63	NW	5.7	14	SE
20250121.03	3.02	NW	6.2	14	SE
20250121.06	3.04	NW	6.4	13	SE
20250121.09	2.79	NW	6.2	13	SE
20250121.12	2.54	NW	5.9	12	SE
20250121.15	2.20	NW	5.7	11	SE
20250121.18	1.80	NW	5.3	9	SE
20250121.21	1.42	NW	5.1	7	SE
20250122.00	1.11	NW	5.0	5	E
20250122.03	0.89	NW	4.7	5	S
20250122.06	0.74	NW	4.3	5	SW
20250122.09	0.67	NW	3.6	7	SW
20250122.12	0.67	W	3.1	8	W
20250122.15	0.73	SW	3.0	10	W
20250122.18	0.84	SW	3.1	11	N
20250122.21	1.03	S	3.4	13	N
20250123.00	1.30	S	3.7	14	N
20250123.03	1.61	S	4.1	15	NW
20250123.06	1.98	SE	4.6	15	NW
20250123.09	2.42	SE	5.1	16	NW
20250123.12	2.90	SE	5.7	17	NW
20250123.15	3.38	SE	6.2	15	NW
20250123.18	3.71	SE	6.7	15	NW
20250123.21	4.23	SE	7.1	14	NW
20250124.00	4.72	SE	7.3	13	NW
20250124.03	4.27	SE	7.2	13	NW
20250124.06	3.39	SE	6.9	12	NW
20250124.09	2.89	SE	6.7	11	NW
20250124.12	2.48	SE	6.3	9	NW
20250124.15	2.02	SE	6.1	8	NW
20250124.18	1.68	SE	6.1	7	N
20250124.21	1.42	SE	5.9	6	W
20250125.00	1.20	SE	5.6	5	SW
20250125.03	1.02	SE	5.3	5	SW
20250125.06	0.88	SE	4.9	4	SW
20250125.09	0.79	SE	4.2	5	S
20250125.12	0.72	S	3.7	6	S

Wind condition in the Aktau

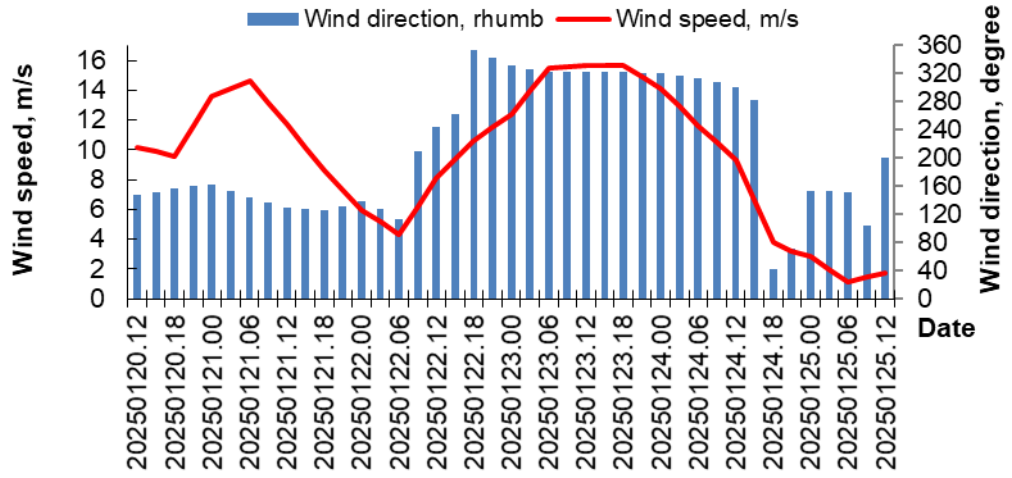


Wave condition in the Aktau

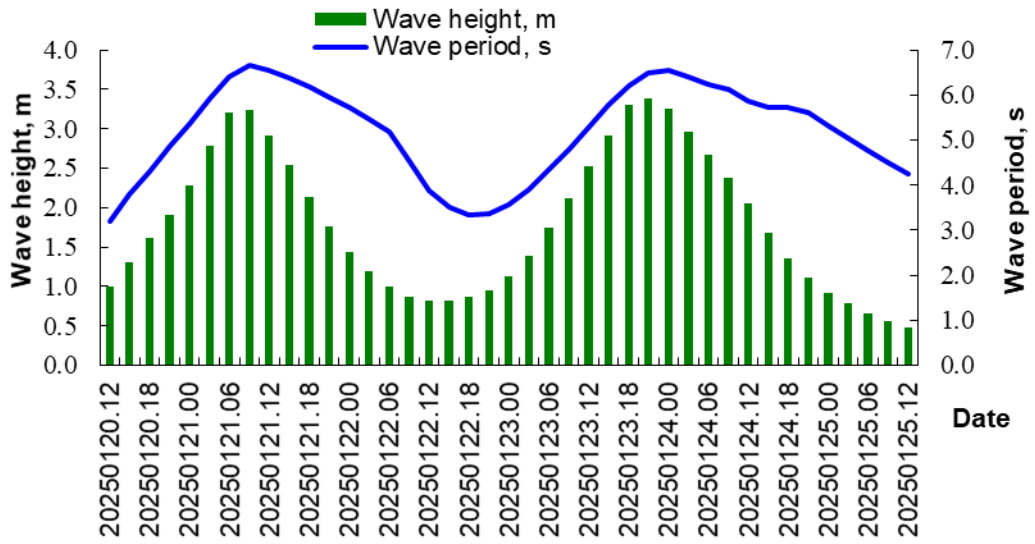


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250120.12	1.05	NW	3.3	11	SE
20250120.15	1.38	NW	3.8	11	SE
20250120.18	1.72	NW	4.4	11	S
20250120.21	2.05	NW	5.0	12	S
20250121.00	2.42	NW	5.5	13	S
20250121.03	2.83	NW	6.1	13	SE
20250121.06	3.12	NW	6.4	14	SE
20250121.09	3.10	NW	6.6	13	SE
20250121.12	2.86	NW	6.5	12	SE
20250121.15	2.49	NW	6.3	10	SE
20250121.18	2.07	NW	6.1	8	SE
20250121.21	1.69	NW	5.8	7	SE
20250122.00	1.37	NW	5.6	6	SE
20250122.03	1.14	NW	5.2	6	S
20250122.06	0.96	NW	4.8	6	SW
20250122.09	0.84	NW	4.3	7	SW
20250122.12	0.80	W	3.6	7	SW
20250122.15	0.81	W	3.3	9	W
20250122.18	0.86	SW	3.2	11	N
20250122.21	0.97	S	3.3	12	N
20250123.00	1.15	S	3.5	13	NW
20250123.03	1.42	S	3.9	14	NW
20250123.06	1.78	S	4.4	15	NW
20250123.09	2.17	SE	4.8	15	NW
20250123.12	2.60	SE	5.4	16	NW
20250123.15	3.02	SE	5.9	16	NW
20250123.18	3.43	SE	6.3	16	NW
20250123.21	3.51	SE	6.6	15	NW
20250124.00	3.40	SE	6.7	15	NW
20250124.03	3.14	SE	6.5	13	NW
20250124.06	2.83	SE	6.3	12	NW
20250124.09	2.56	SE	6.2	11	NW
20250124.12	2.27	SE	5.9	10	NW
20250124.15	1.88	SE	5.7	8	NW
20250124.18	1.50	SE	5.6	6	N
20250124.21	1.21	SE	5.5	4	NE
20250125.00	0.99	SE	5.4	3	E
20250125.03	0.83	SE	5.2	2	NE
20250125.06	0.70	SE	4.9	1	W
20250125.09	0.60	SE	4.5	2	N
20250125.12	0.52	SE	4.1	4	W

Wind condition in the Peschanyi

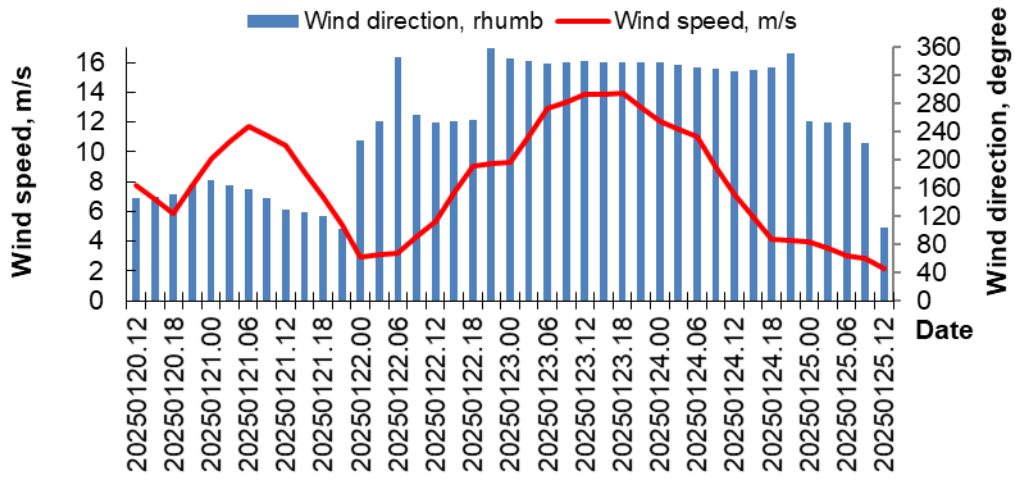


Wave condition in the Peschanyi

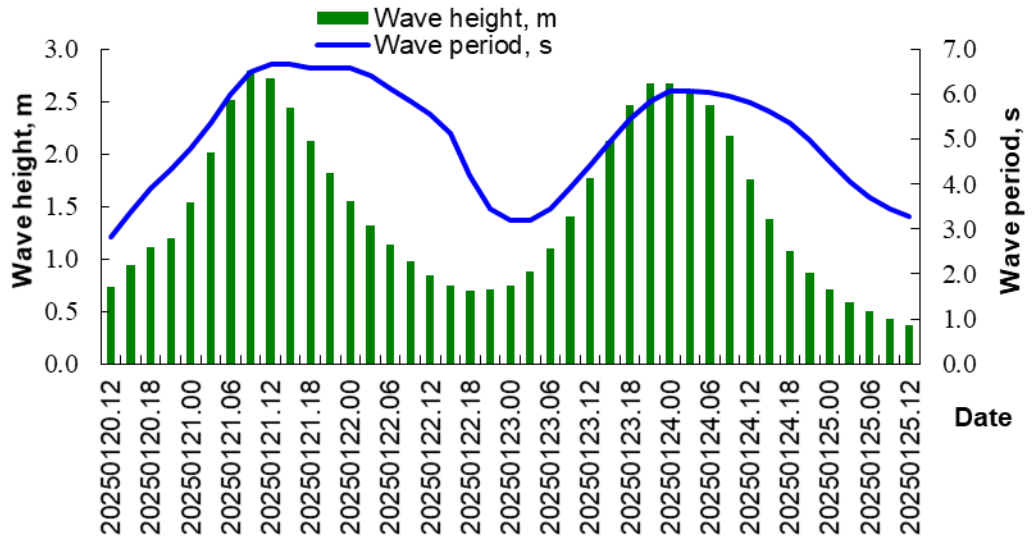


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250120.12	1.00	NW	3.2	10	SE
20250120.15	1.31	NW	3.8	10	SE
20250120.18	1.61	NW	4.3	10	SE
20250120.21	1.91	NW	4.9	12	S
20250121.00	2.28	NW	5.4	14	S
20250121.03	2.78	NW	5.9	14	SE
20250121.06	3.21	NW	6.4	15	SE
20250121.09	3.24	NW	6.7	13	SE
20250121.12	2.91	NW	6.6	12	SE
20250121.15	2.54	NW	6.4	10	SE
20250121.18	2.13	NW	6.2	9	SE
20250121.21	1.76	NW	6.0	7	SE
20250122.00	1.44	NW	5.7	6	SE
20250122.03	1.19	NW	5.5	5	SE
20250122.06	1.00	NW	5.2	4	SE
20250122.09	0.87	NW	4.6	6	SW
20250122.12	0.82	W	3.9	8	SW
20250122.15	0.82	W	3.5	9	W
20250122.18	0.86	SW	3.3	11	N
20250122.21	0.96	SW	3.4	11	N
20250123.00	1.12	S	3.6	12	NW
20250123.03	1.39	S	3.9	14	NW
20250123.06	1.74	S	4.3	16	NW
20250123.09	2.11	SE	4.8	16	NW
20250123.12	2.53	SE	5.3	16	NW
20250123.15	2.91	SE	5.8	16	NW
20250123.18	3.30	SE	6.2	16	NW
20250123.21	3.39	SE	6.5	15	NW
20250124.00	3.26	SE	6.6	14	NW
20250124.03	2.96	SE	6.4	13	NW
20250124.06	2.66	SE	6.2	12	NW
20250124.09	2.38	SE	6.1	10	NW
20250124.12	2.05	SE	5.9	9	NW
20250124.15	1.68	SE	5.7	7	W
20250124.18	1.35	SE	5.7	4	NE
20250124.21	1.11	SE	5.6	3	E
20250125.00	0.92	SE	5.3	3	SE
20250125.03	0.78	SE	5.0	2	SE
20250125.06	0.66	SE	4.8	1	SE
20250125.09	0.56	SE	4.5	1	E
20250125.12	0.48	S	4.2	2	S

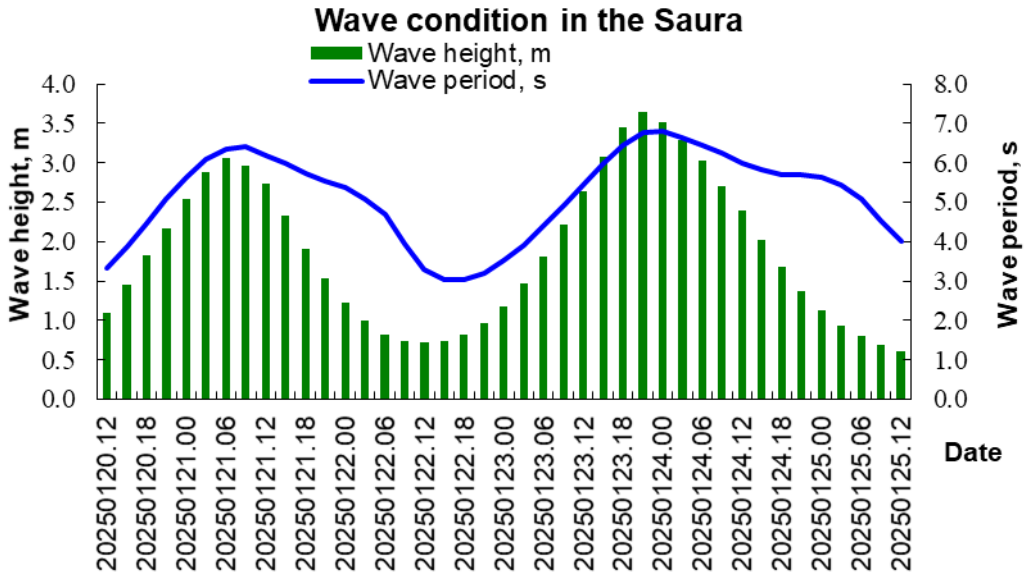
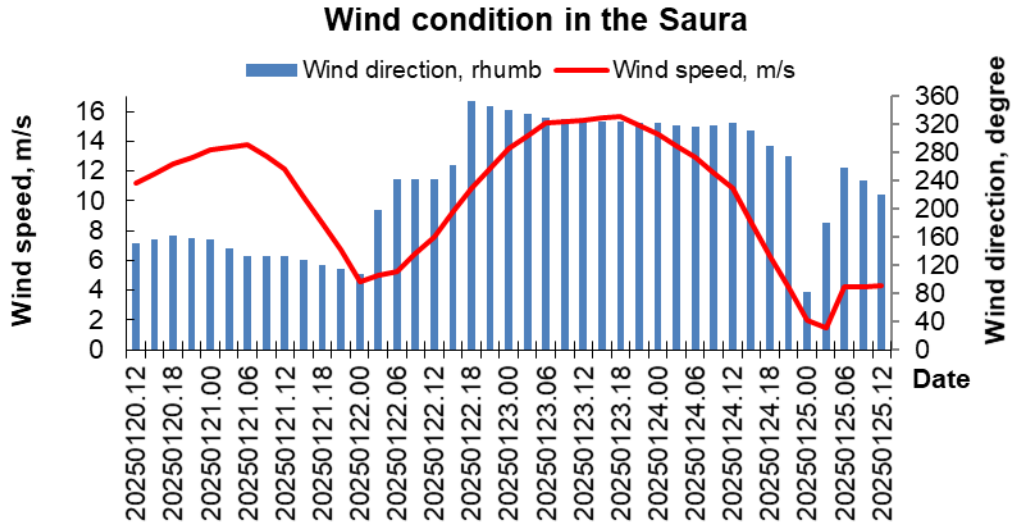
Wind condition in the Fetisovo



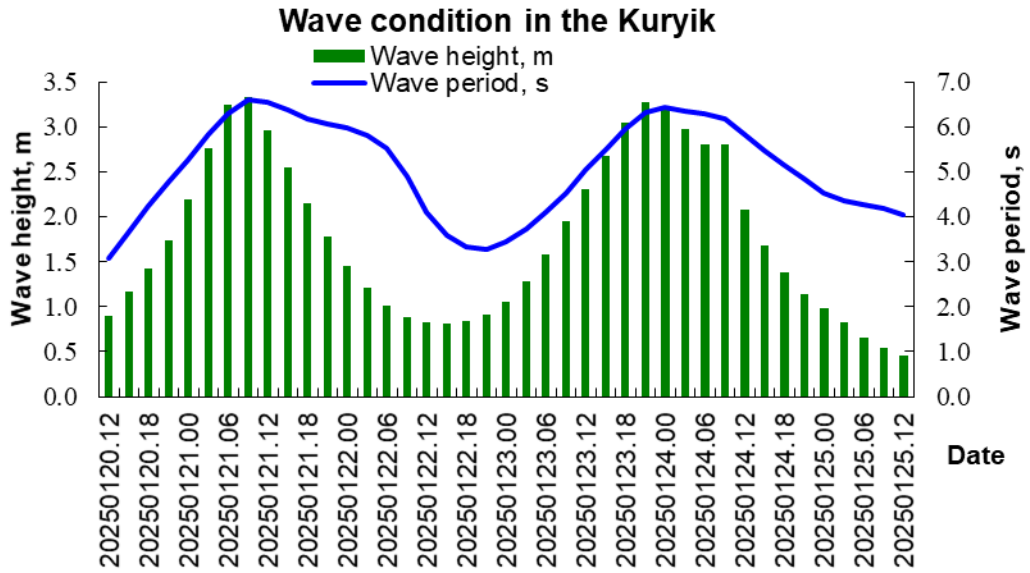
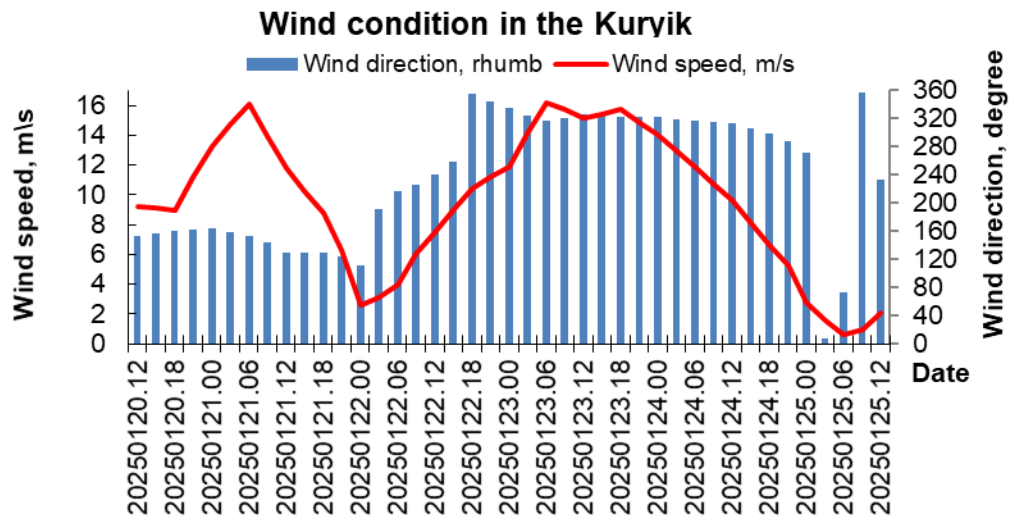
Wave condition in the Fetisovo



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250120.12	0.74	NW	2.8	8	SE
20250120.15	0.95	NW	3.4	7	SE
20250120.18	1.11	NW	3.9	6	SE
20250120.21	1.20	NW	4.3	8	S
20250121.00	1.54	NW	4.8	10	S
20250121.03	2.02	NW	5.4	11	S
20250121.06	2.51	NW	6.0	12	S
20250121.09	2.80	NW	6.5	11	SE
20250121.12	2.73	NW	6.7	10	SE
20250121.15	2.44	NW	6.7	9	SE
20250121.18	2.13	NW	6.6	7	SE
20250121.21	1.82	NW	6.6	5	E
20250122.00	1.55	NW	6.6	3	SW
20250122.03	1.32	NW	6.4	3	W
20250122.06	1.13	NW	6.1	3	N
20250122.09	0.98	NW	5.8	4	W
20250122.12	0.85	NW	5.6	5	W
20250122.15	0.75	NW	5.1	7	W
20250122.18	0.70	NW	4.2	9	W
20250122.21	0.71	W	3.5	9	N
20250123.00	0.75	SW	3.2	9	N
20250123.03	0.88	S	3.2	11	N
20250123.06	1.11	S	3.5	13	NW
20250123.09	1.40	S	3.9	13	N
20250123.12	1.76	S	4.4	14	N
20250123.15	2.12	S	4.9	14	N
20250123.18	2.47	SE	5.4	14	N
20250123.21	2.67	SE	5.8	13	N
20250124.00	2.68	SE	6.1	12	N
20250124.03	2.59	SE	6.1	12	NW
20250124.06	2.46	SE	6.0	11	NW
20250124.09	2.17	SE	5.9	9	NW
20250124.12	1.76	SE	5.8	7	NW
20250124.15	1.38	SE	5.6	6	NW
20250124.18	1.08	SE	5.4	4	NW
20250124.21	0.86	SE	5.0	4	N
20250125.00	0.71	SE	4.5	4	W
20250125.03	0.59	SE	4.1	4	W
20250125.06	0.50	SE	3.7	3	W
20250125.09	0.43	SE	3.4	3	SW
20250125.12	0.37	SE	3.3	2	E



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250120.12	1.09	NW	3.3	11	SE
20250120.15	1.45	NW	3.9	12	SE
20250120.18	1.82	NW	4.5	12	S
20250120.21	2.17	NW	5.1	13	S
20250121.00	2.54	NW	5.6	13	SE
20250121.03	2.88	NW	6.1	14	SE
20250121.06	3.06	NW	6.4	14	SE
20250121.09	2.97	NW	6.4	13	SE
20250121.12	2.74	NW	6.2	12	SE
20250121.15	2.33	NW	6.0	10	SE
20250121.18	1.91	NW	5.7	8	SE
20250121.21	1.53	NW	5.5	7	SE
20250122.00	1.22	NW	5.4	5	E
20250122.03	1.00	NW	5.1	5	S
20250122.06	0.83	NW	4.7	5	SW
20250122.09	0.73	NW	4.0	6	SW
20250122.12	0.71	W	3.3	8	SW
20250122.15	0.74	W	3.0	9	W
20250122.18	0.82	SW	3.0	11	N
20250122.21	0.96	S	3.2	12	N
20250123.00	1.18	S	3.5	13	N
20250123.03	1.46	S	3.9	14	NW
20250123.06	1.82	SE	4.4	15	NW
20250123.09	2.21	SE	4.9	15	NW
20250123.12	2.63	SE	5.4	15	NW
20250123.15	3.07	SE	6.0	16	NW
20250123.18	3.46	SE	6.5	16	NW
20250123.21	3.64	SE	6.8	15	NW
20250124.00	3.51	SE	6.8	14	NW
20250124.03	3.28	SE	6.7	14	NW
20250124.06	3.02	SE	6.4	13	NW
20250124.09	2.71	SE	6.2	12	NW
20250124.12	2.39	SE	6.0	11	NW
20250124.15	2.03	SE	5.8	9	NW
20250124.18	1.68	SE	5.7	6	W
20250124.21	1.37	SE	5.7	4	W
20250125.00	1.13	SE	5.6	2	E
20250125.03	0.94	SE	5.4	2	S
20250125.06	0.80	SE	5.1	4	W
20250125.09	0.70	SE	4.5	4	SW
20250125.12	0.61	SE	4.0	4	SW



Date time	Kuryik				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250120.12	0.89	NW	3.1	9	SE
20250120.15	1.17	NW	3.7	9	SE
20250120.18	1.42	NW	4.3	9	S
20250120.21	1.73	NW	4.8	11	S
20250121.00	2.19	NW	5.3	13	S
20250121.03	2.76	NW	5.8	15	S
20250121.06	3.25	NW	6.3	16	SE
20250121.09	3.33	NW	6.6	14	SE
20250121.12	2.96	NW	6.6	12	SE
20250121.15	2.55	NW	6.4	10	SE
20250121.18	2.15	NW	6.2	9	SE
20250121.21	1.78	NW	6.1	6	SE
20250122.00	1.46	NW	6.0	3	E
20250122.03	1.21	NW	5.8	3	S
20250122.06	1.02	NW	5.5	4	SW
20250122.09	0.88	NW	4.9	6	SW
20250122.12	0.82	NW	4.1	7	SW
20250122.15	0.81	W	3.6	9	W
20250122.18	0.84	W	3.3	10	N
20250122.21	0.92	SW	3.3	11	N
20250123.00	1.06	S	3.4	12	NW
20250123.03	1.28	S	3.7	14	NW
20250123.06	1.58	S	4.1	16	NW
20250123.09	1.95	SE	4.5	16	NW
20250123.12	2.31	SE	5.0	15	NW
20250123.15	2.68	SE	5.5	15	NW
20250123.18	3.04	SE	5.9	16	NW
20250123.21	3.27	SE	6.3	15	NW
20250124.00	3.19	SE	6.4	14	NW
20250124.03	2.97	SE	6.3	13	NW
20250124.06	2.80	SE	6.3	12	NW
20250124.09	2.80	SE	6.2	11	NW
20250124.12	2.08	SE	5.8	10	NW
20250124.15	1.69	SE	5.5	8	NW
20250124.18	1.38	SE	5.2	7	NW
20250124.21	1.14	SE	4.8	5	W
20250125.00	0.99	SE	4.5	3	W
20250125.03	0.83	SE	4.4	2	N
20250125.06	0.66	SE	4.3	1	E
20250125.09	0.54	SE	4.2	1	N
20250125.12	0.45	SE	4.0	2	SW

**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

Phone. (717)2 79 83 12; E-mail: ugmikm@meteo.kz