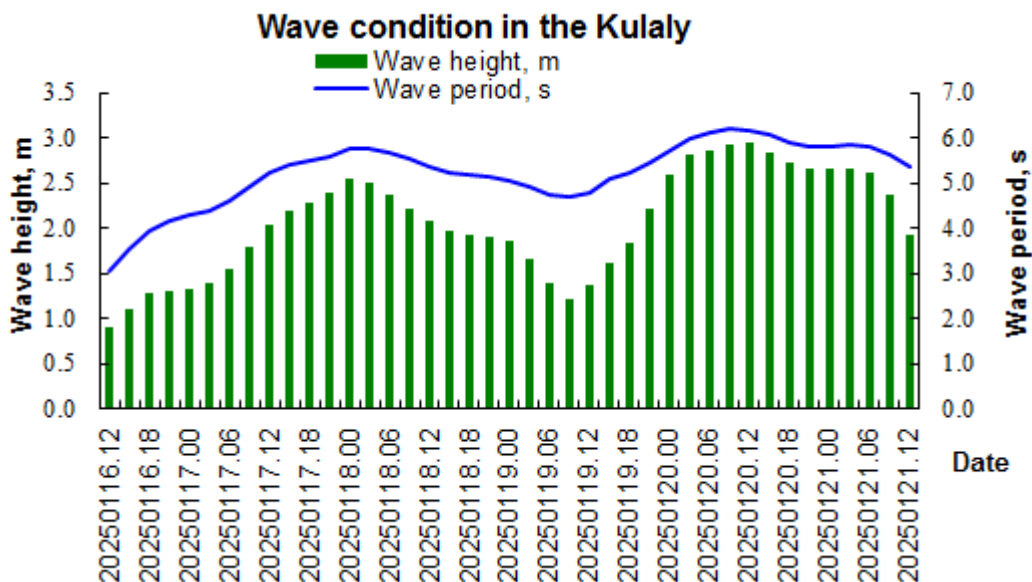
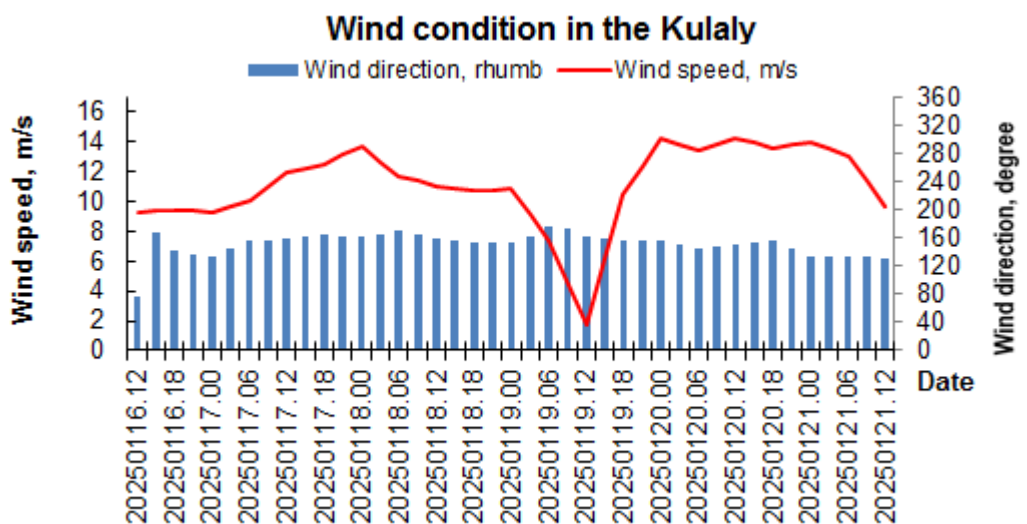




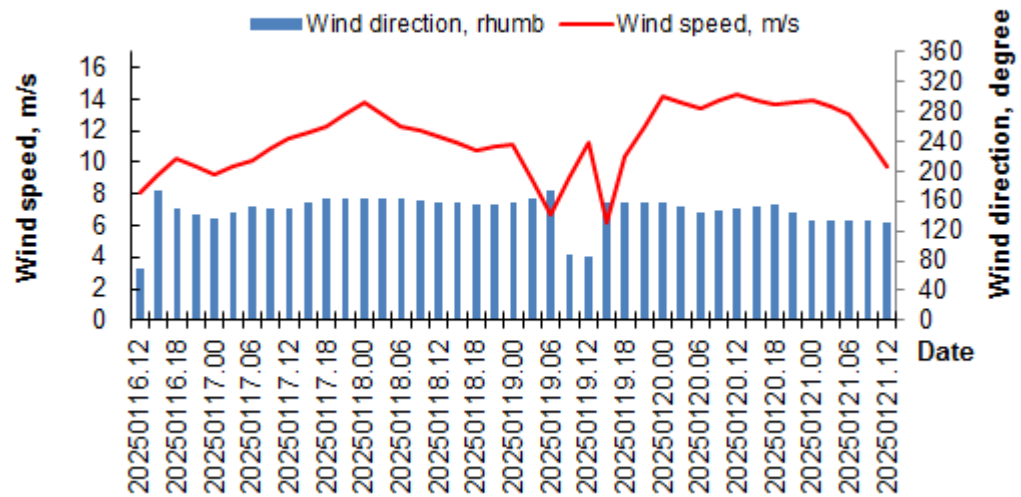
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
for the period January 16 - 21, 2025.**

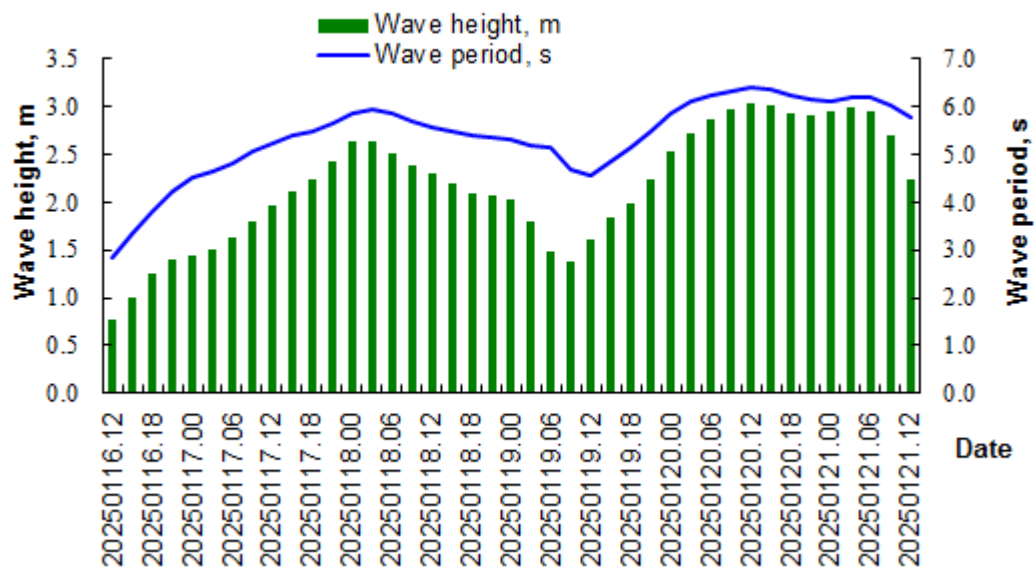


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250116.12	0.89	N	3.1	9	E
20250116.15	1.11	N	3.5	9	S
20250116.18	1.29	N	3.9	9	SE
20250116.21	1.30	N	4.2	9	SE
20250117.00	1.32	N	4.3	9	SE
20250117.03	1.40	N	4.4	10	SE
20250117.06	1.55	N	4.6	10	SE
20250117.09	1.79	N	4.9	11	SE
20250117.12	2.04	N	5.2	12	S
20250117.15	2.20	N	5.4	12	S
20250117.18	2.29	N	5.5	13	S
20250117.21	2.39	N	5.6	13	S
20250118.00	2.55	N	5.7	14	S
20250118.03	2.51	N	5.8	13	S
20250118.06	2.36	N	5.7	12	S
20250118.09	2.21	N	5.5	11	S
20250118.12	2.07	N	5.4	11	S
20250118.15	1.97	N	5.2	11	SE
20250118.18	1.93	N	5.2	11	SE
20250118.21	1.91	N	5.1	11	SE
20250119.00	1.86	N	5.1	11	SE
20250119.03	1.67	N	4.9	9	S
20250119.06	1.38	N	4.8	7	S
20250119.09	1.22	N	4.7	5	S
20250119.12	1.38	N	4.8	2	S
20250119.15	1.61	N	5.1	6	S
20250119.18	1.84	N	5.2	10	SE
20250119.21	2.21	N	5.4	12	S
20250120.00	2.60	N	5.7	14	S
20250120.03	2.82	N	6.0	14	SE
20250120.06	2.85	N	6.1	13	SE
20250120.09	2.92	N	6.2	14	SE
20250120.12	2.94	NW	6.2	14	SE
20250120.15	2.84	NW	6.1	14	SE
20250120.18	2.72	N	5.9	14	SE
20250120.21	2.65	NW	5.8	14	SE
20250121.00	2.65	NW	5.8	14	SE
20250121.03	2.65	NW	5.8	14	SE
20250121.06	2.62	NW	5.8	13	SE
20250121.09	2.37	NW	5.6	11	SE
20250121.12	1.93	NW	5.4	10	SE

Wind condition in the Fort-Shevchenko

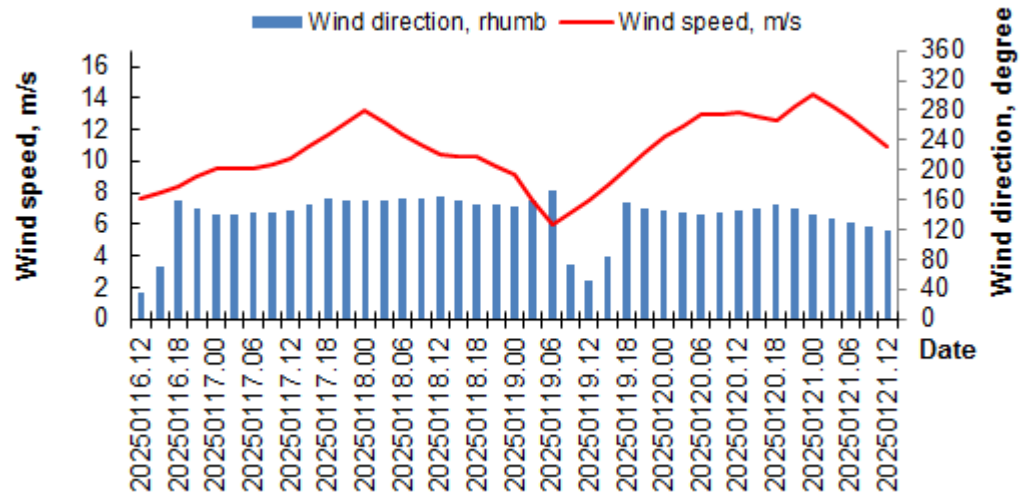


Wave condition in the Fort-Shevchenko

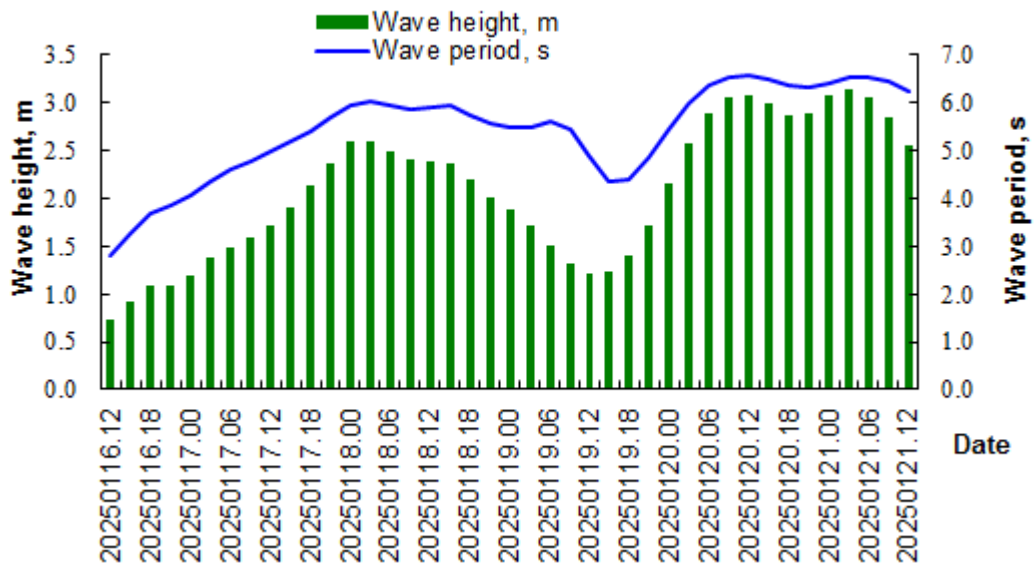


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250116.12	0.77	N	2.9	8	E
20250116.15	1.01	N	3.3	9	S
20250116.18	1.26	N	3.8	10	SE
20250116.21	1.40	N	4.2	10	SE
20250117.00	1.45	N	4.5	9	SE
20250117.03	1.51	NW	4.7	10	SE
20250117.06	1.63	N	4.8	10	SE
20250117.09	1.80	N	5.0	11	SE
20250117.12	1.96	NW	5.2	12	SE
20250117.15	2.11	NW	5.4	12	SE
20250117.18	2.23	NW	5.5	12	S
20250117.21	2.42	N	5.7	13	S
20250118.00	2.64	N	5.9	14	S
20250118.03	2.64	N	6.0	13	S
20250118.06	2.50	N	5.8	12	S
20250118.09	2.39	N	5.7	12	S
20250118.12	2.29	N	5.6	12	S
20250118.15	2.19	N	5.5	11	SE
20250118.18	2.10	N	5.4	11	SE
20250118.21	2.07	N	5.4	11	SE
20250119.00	2.03	N	5.3	11	S
20250119.03	1.81	N	5.2	9	S
20250119.06	1.49	N	5.1	7	S
20250119.09	1.38	N	4.7	9	E
20250119.12	1.62	N	4.6	11	E
20250119.15	1.84	N	4.9	6	S
20250119.18	1.99	N	5.2	10	SE
20250119.21	2.23	N	5.5	12	S
20250120.00	2.53	N	5.8	14	S
20250120.03	2.72	N	6.1	14	SE
20250120.06	2.87	N	6.2	13	SE
20250120.09	2.97	N	6.3	14	SE
20250120.12	3.03	NW	6.4	14	SE
20250120.15	3.01	NW	6.4	14	SE
20250120.18	2.94	NW	6.3	14	SE
20250120.21	2.91	NW	6.2	14	SE
20250121.00	2.95	NW	6.1	14	SE
20250121.03	2.99	NW	6.2	14	SE
20250121.06	2.96	NW	6.2	13	SE
20250121.09	2.70	NW	6.0	11	SE
20250121.12	2.23	NW	5.8	10	SE

Wind condition in the Aktau

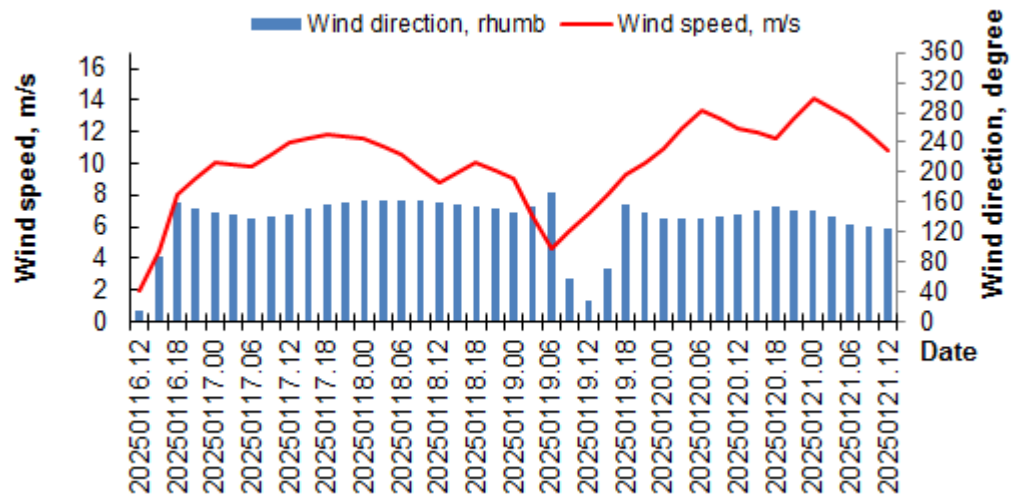


Wave condition in the Aktau

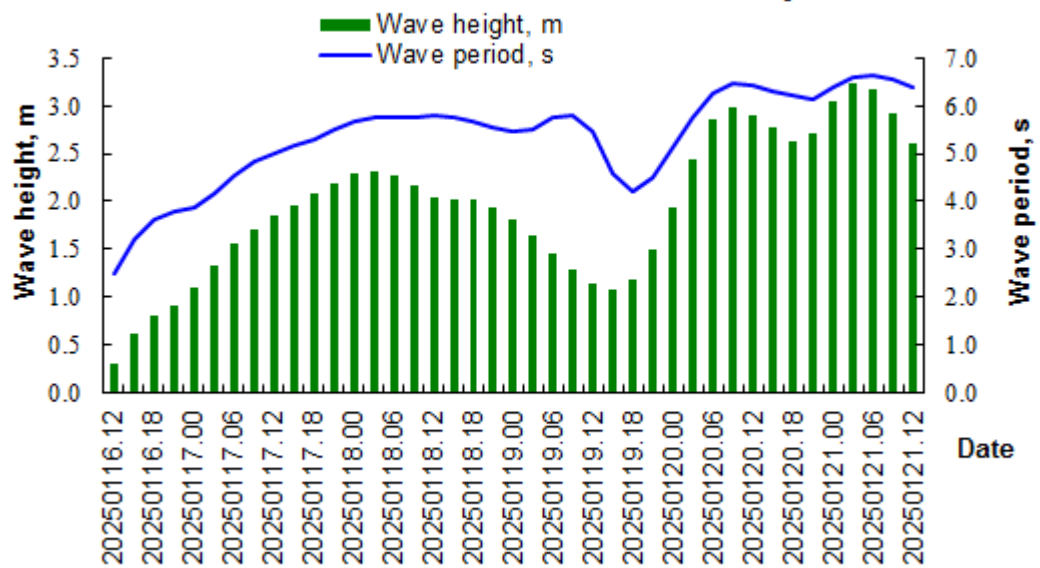


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250116.12	0.74	NE	2.8	8	NE
20250116.15	0.93	NE	3.3	8	E
20250116.18	1.09	NE	3.7	8	S
20250116.21	1.08	NE	3.9	9	SE
20250117.00	1.19	N	4.1	10	SE
20250117.03	1.38	NW	4.4	10	SE
20250117.06	1.49	NW	4.6	10	SE
20250117.09	1.59	NW	4.8	10	SE
20250117.12	1.72	NW	5.0	10	SE
20250117.15	1.90	NW	5.2	11	SE
20250117.18	2.13	NW	5.4	12	S
20250117.21	2.37	NW	5.7	12	S
20250118.00	2.59	NW	6.0	13	S
20250118.03	2.60	NW	6.0	12	S
20250118.06	2.49	NW	5.9	12	S
20250118.09	2.41	NW	5.9	11	S
20250118.12	2.39	NW	5.9	10	S
20250118.15	2.36	NW	5.9	10	S
20250118.18	2.21	NW	5.8	10	SE
20250118.21	2.02	NW	5.6	10	SE
20250119.00	1.88	NW	5.5	9	SE
20250119.03	1.72	NW	5.5	8	S
20250119.06	1.51	NW	5.6	6	S
20250119.09	1.33	NW	5.4	7	E
20250119.12	1.21	NW	4.9	8	NE
20250119.15	1.23	N	4.3	9	E
20250119.18	1.40	NW	4.4	10	SE
20250119.21	1.73	NW	4.9	11	SE
20250120.00	2.15	NW	5.4	12	SE
20250120.03	2.57	NW	6.0	12	SE
20250120.06	2.90	NW	6.4	13	SE
20250120.09	3.05	NW	6.5	13	SE
20250120.12	3.07	NW	6.6	13	SE
20250120.15	3.00	NW	6.5	13	SE
20250120.18	2.87	NW	6.4	13	SE
20250120.21	2.88	NW	6.3	13	SE
20250121.00	3.09	NW	6.4	14	SE
20250121.03	3.15	NW	6.5	13	SE
20250121.06	3.06	NW	6.5	13	SE
20250121.09	2.85	NW	6.5	12	SE
20250121.12	2.56	NW	6.3	11	SE

Wind condition in the Peschanyi

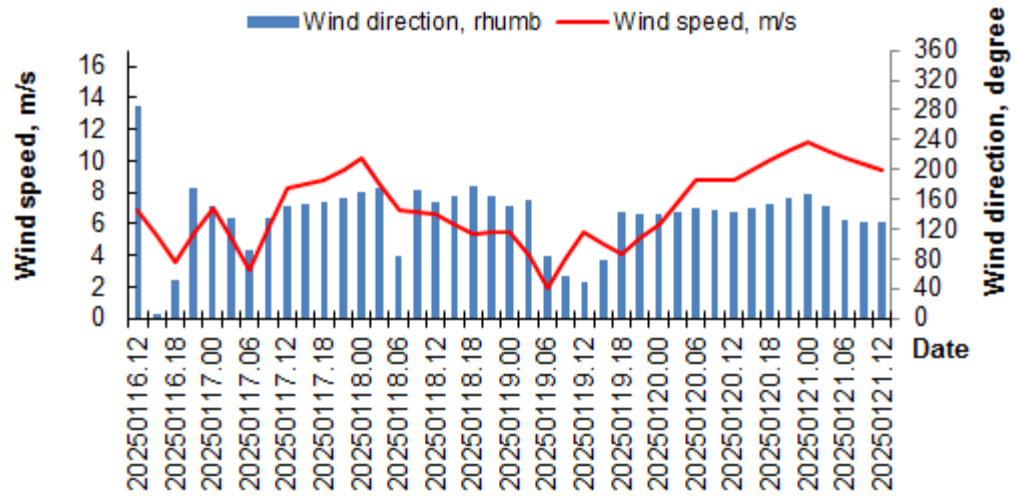


Wave condition in the Peschanyi

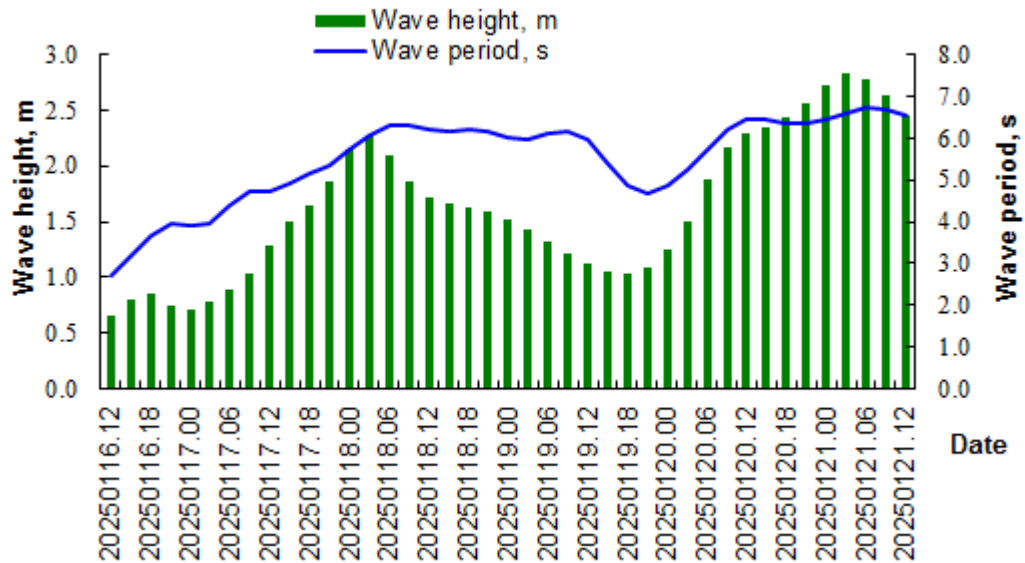


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250116.12	0.31	E	2.5	2	N
20250116.15	0.62	E	3.2	4	E
20250116.18	0.80	E	3.6	8	S
20250116.21	0.91	E	3.8	9	SE
20250117.00	1.09	N	3.9	10	SE
20250117.03	1.33	NW	4.2	10	SE
20250117.06	1.55	NW	4.6	10	SE
20250117.09	1.70	NW	4.8	11	SE
20250117.12	1.84	NW	5.0	11	SE
20250117.15	1.96	NW	5.2	12	SE
20250117.18	2.09	NW	5.3	12	S
20250117.21	2.19	NW	5.5	12	S
20250118.00	2.29	NW	5.7	12	S
20250118.03	2.31	NW	5.8	11	S
20250118.06	2.27	NW	5.8	11	S
20250118.09	2.18	NW	5.8	10	S
20250118.12	2.05	NW	5.8	9	S
20250118.15	2.01	NW	5.8	9	SE
20250118.18	2.01	NW	5.7	10	SE
20250118.21	1.93	NW	5.6	10	SE
20250119.00	1.82	NW	5.5	9	SE
20250119.03	1.64	NW	5.5	7	SE
20250119.06	1.45	NW	5.8	5	S
20250119.09	1.28	NW	5.8	6	NE
20250119.12	1.13	NW	5.5	7	NE
20250119.15	1.08	NW	4.6	8	E
20250119.18	1.19	NW	4.2	9	SE
20250119.21	1.50	NW	4.5	10	SE
20250120.00	1.94	NW	5.2	11	SE
20250120.03	2.43	NW	5.8	12	SE
20250120.06	2.86	NW	6.3	13	SE
20250120.09	2.99	NW	6.5	13	SE
20250120.12	2.91	NW	6.4	12	SE
20250120.15	2.78	NW	6.3	12	SE
20250120.18	2.64	NW	6.2	12	SE
20250120.21	2.71	NW	6.2	13	SE
20250121.00	3.05	NW	6.4	14	SE
20250121.03	3.24	NW	6.6	14	SE
20250121.06	3.17	NW	6.6	13	SE
20250121.09	2.92	NW	6.6	12	SE
20250121.12	2.62	NW	6.4	11	SE

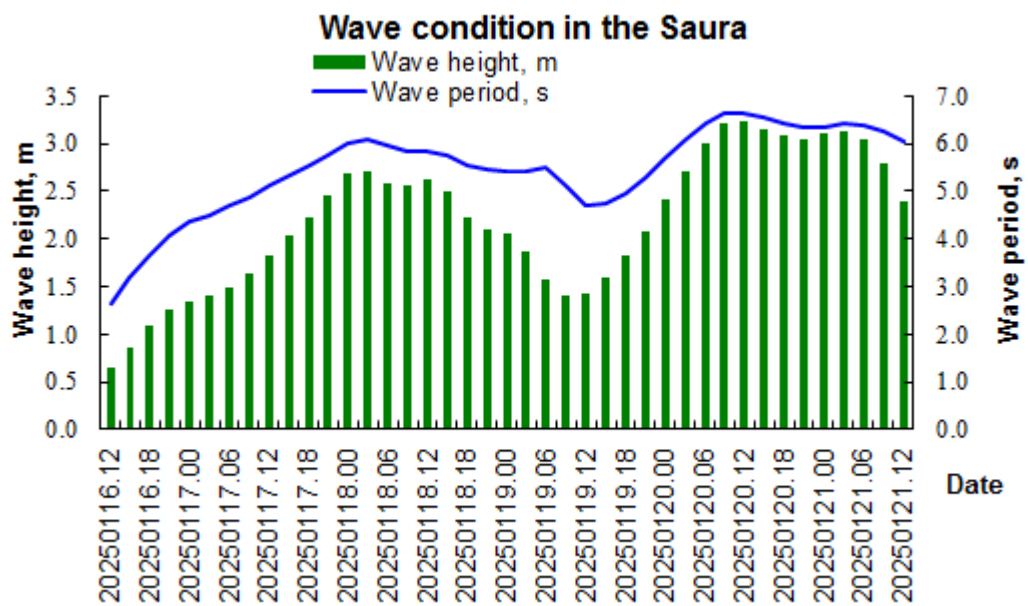
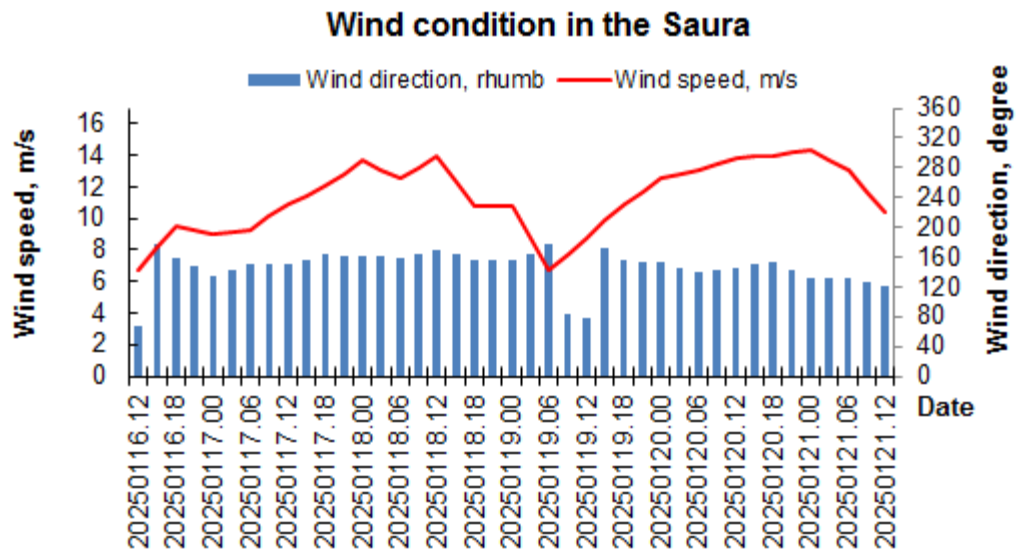
Wind condition in the Fetisovo



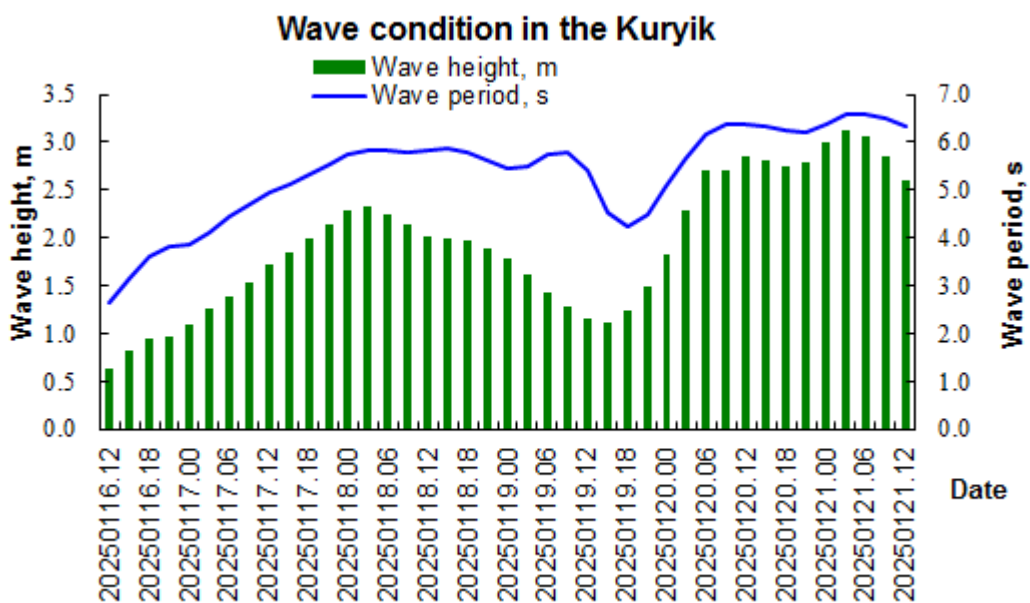
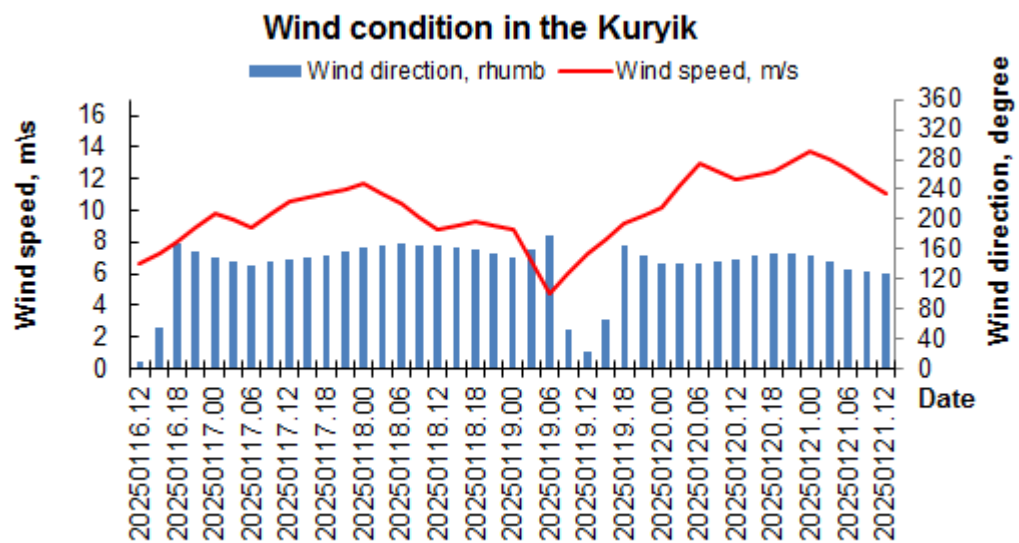
Wave condition in the Fetisovo



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250116.12	0.66	E	2.7	7	W
20250116.15	0.80	E	3.2	5	N
20250116.18	0.85	E	3.7	4	NE
20250116.21	0.75	E	4.0	5	S
20250117.00	0.72	E	3.9	7	SE
20250117.03	0.79	N	3.9	5	SE
20250117.06	0.89	N	4.4	3	E
20250117.09	1.03	N	4.7	6	SE
20250117.12	1.28	NW	4.7	8	SE
20250117.15	1.50	NW	4.9	8	SE
20250117.18	1.64	NW	5.1	9	SE
20250117.21	1.85	NW	5.4	9	S
20250118.00	2.15	NW	5.7	10	S
20250118.03	2.27	NW	6.1	9	S
20250118.06	2.09	NW	6.3	7	E
20250118.09	1.87	NW	6.3	7	S
20250118.12	1.72	NW	6.2	7	SE
20250118.15	1.66	NW	6.1	6	S
20250118.18	1.62	NW	6.2	5	S
20250118.21	1.59	NW	6.2	5	S
20250119.00	1.52	NW	6.0	6	SE
20250119.03	1.43	NW	6.0	4	S
20250119.06	1.32	NW	6.1	2	E
20250119.09	1.22	NW	6.1	4	NE
20250119.12	1.13	NW	6.0	5	NE
20250119.15	1.05	NW	5.4	5	E
20250119.18	1.03	NW	4.9	4	SE
20250119.21	1.10	NW	4.6	5	SE
20250120.00	1.24	NW	4.8	6	SE
20250120.03	1.51	NW	5.3	7	SE
20250120.06	1.88	NW	5.7	9	SE
20250120.09	2.17	NW	6.2	9	SE
20250120.12	2.29	NW	6.4	9	SE
20250120.15	2.35	NW	6.4	9	SE
20250120.18	2.44	NW	6.4	10	SE
20250120.21	2.55	NW	6.3	11	S
20250121.00	2.71	NW	6.4	11	S
20250121.03	2.82	NW	6.6	11	SE
20250121.06	2.77	NW	6.7	10	SE
20250121.09	2.62	NW	6.7	10	SE
20250121.12	2.45	NW	6.6	9	SE



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250116.12	0.64	NE	2.7	7	NE
20250116.15	0.86	N	3.2	8	S
20250116.18	1.09	N	3.7	10	S
20250116.21	1.25	N	4.1	9	SE
20250117.00	1.34	N	4.3	9	SE
20250117.03	1.40	NW	4.5	9	SE
20250117.06	1.48	NW	4.7	9	SE
20250117.09	1.63	NW	4.9	10	SE
20250117.12	1.83	NW	5.1	11	SE
20250117.15	2.03	NW	5.3	11	SE
20250117.18	2.22	N	5.5	12	S
20250117.21	2.46	N	5.8	13	S
20250118.00	2.68	N	6.0	14	S
20250118.03	2.70	N	6.1	13	S
20250118.06	2.58	NW	6.0	12	S
20250118.09	2.55	N	5.8	13	S
20250118.12	2.62	N	5.8	14	S
20250118.15	2.49	N	5.7	12	S
20250118.18	2.22	N	5.5	11	SE
20250118.21	2.09	N	5.4	11	SE
20250119.00	2.06	N	5.4	11	SE
20250119.03	1.88	N	5.4	9	S
20250119.06	1.58	N	5.5	7	S
20250119.09	1.40	N	5.1	8	E
20250119.12	1.43	N	4.7	9	E
20250119.15	1.59	N	4.7	10	S
20250119.18	1.82	N	5.0	11	SE
20250119.21	2.09	N	5.3	12	SE
20250120.00	2.42	N	5.7	13	SE
20250120.03	2.71	N	6.1	13	SE
20250120.06	3.01	N	6.4	13	SE
20250120.09	3.21	N	6.6	13	SE
20250120.12	3.23	NW	6.6	14	SE
20250120.15	3.16	NW	6.5	14	SE
20250120.18	3.08	NW	6.4	14	SE
20250120.21	3.05	NW	6.3	14	SE
20250121.00	3.12	NW	6.3	14	SE
20250121.03	3.12	NW	6.4	14	SE
20250121.06	3.04	NW	6.4	13	SE
20250121.09	2.79	NW	6.3	12	SE
20250121.12	2.38	NW	6.1	10	SE



Date time	Kuryik				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250116.12	0.63	E	2.6	7	N
20250116.15	0.82	E	3.2	7	NE
20250116.18	0.95	E	3.6	8	S
20250116.21	0.97	E	3.8	9	SE
20250117.00	1.08	N	3.9	10	SE
20250117.03	1.26	N	4.1	9	SE
20250117.06	1.40	NW	4.4	9	SE
20250117.09	1.54	NW	4.7	10	SE
20250117.12	1.71	NW	4.9	11	SE
20250117.15	1.86	NW	5.1	11	SE
20250117.18	2.00	NW	5.3	11	SE
20250117.21	2.15	NW	5.5	11	S
20250118.00	2.29	NW	5.7	12	S
20250118.03	2.32	NW	5.9	11	S
20250118.06	2.25	NW	5.8	10	S
20250118.09	2.15	NW	5.8	10	S
20250118.12	2.02	NW	5.8	9	S
20250118.15	1.99	NW	5.9	9	S
20250118.18	1.97	NW	5.8	9	S
20250118.21	1.88	NW	5.6	9	SE
20250119.00	1.77	NW	5.5	9	SE
20250119.03	1.61	NW	5.5	7	S
20250119.06	1.43	NW	5.7	5	S
20250119.09	1.28	NW	5.8	6	NE
20250119.12	1.15	NW	5.4	7	N
20250119.15	1.12	N	4.5	8	NE
20250119.18	1.24	N	4.2	9	S
20250119.21	1.48	NW	4.5	10	SE
20250120.00	1.83	NW	5.1	10	SE
20250120.03	2.30	NW	5.7	12	SE
20250120.06	2.71	NW	6.2	13	SE
20250120.09	2.71	NW	6.4	12	SE
20250120.12	2.85	NW	6.4	12	SE
20250120.15	2.81	NW	6.3	12	SE
20250120.18	2.75	NW	6.3	12	SE
20250120.21	2.79	NW	6.2	13	SE
20250121.00	3.01	NW	6.4	14	SE
20250121.03	3.13	NW	6.6	13	SE
20250121.06	3.06	NW	6.6	13	SE
20250121.09	2.86	NW	6.5	12	SE
20250121.12	2.61	NW	6.3	11	SE

**Calculation characteristics were obtained using the SWAN wave model, adapted in RSE «Kazhydromet» to the conditions of the Caspian Sea.*

Compiled by: Bazarbai L.B

Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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