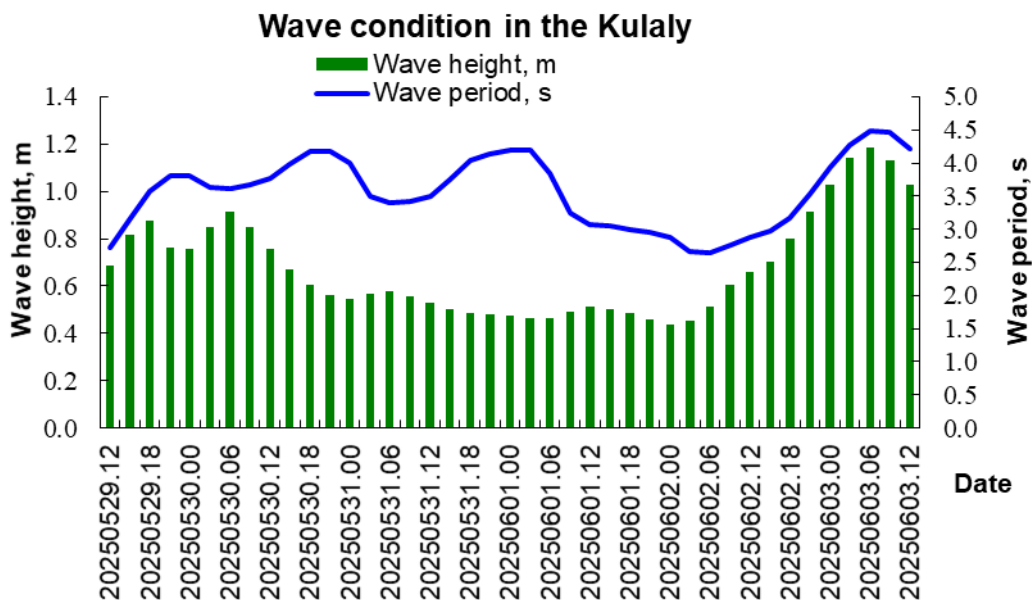
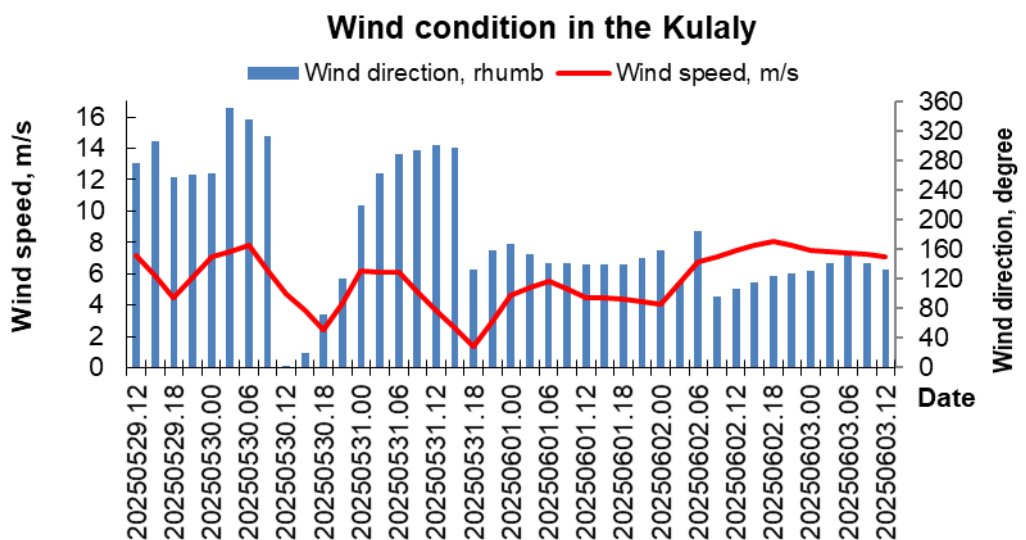




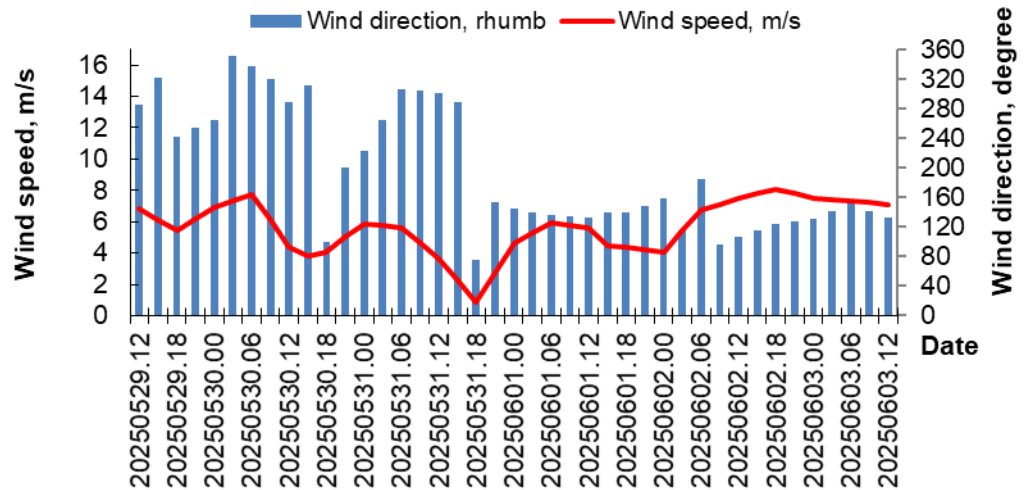
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 29 – June 03, 2025.**

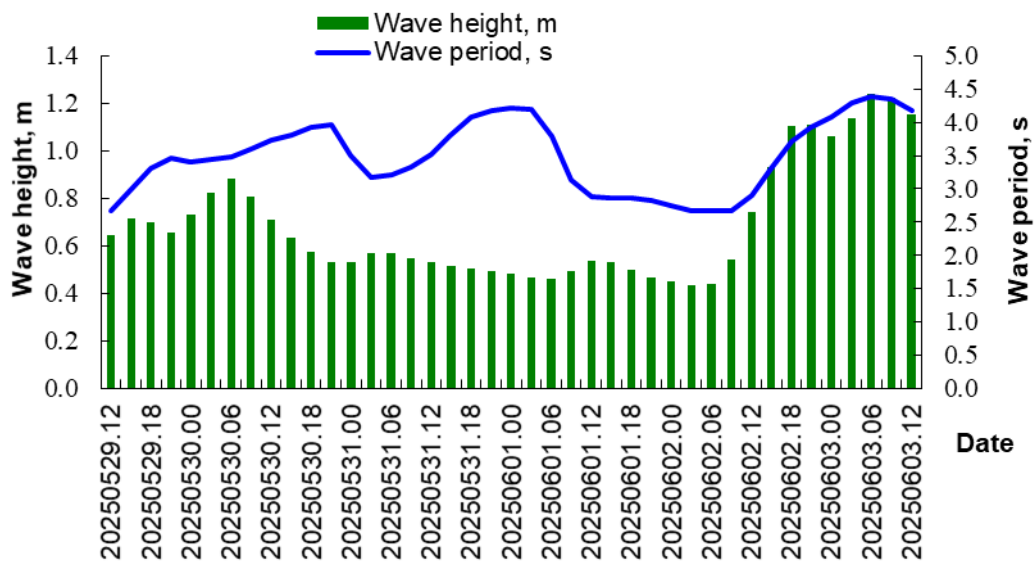


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250529.12	0.69	E	2.7	7	W
20250529.15	0.82	E	3.2	6	NW
20250529.18	0.88	E	3.6	4	W
20250529.21	0.76	SE	3.8	6	W
20250530.00	0.76	SE	3.8	7	W
20250530.03	0.85	S	3.6	7	N
20250530.06	0.91	S	3.6	8	NW
20250530.09	0.85	SE	3.7	6	NW
20250530.12	0.76	SE	3.8	5	N
20250530.15	0.67	SE	4.0	4	N
20250530.18	0.60	SE	4.2	2	E
20250530.21	0.56	SE	4.2	4	SE
20250531.00	0.54	S	4.0	6	SW
20250531.03	0.57	S	3.5	6	W
20250531.06	0.58	S	3.4	6	W
20250531.09	0.56	S	3.4	5	NW
20250531.12	0.53	S	3.5	4	NW
20250531.15	0.50	S	3.8	2	NW
20250531.18	0.49	S	4.0	1	SE
20250531.21	0.48	SE	4.1	3	S
20250601.00	0.47	SE	4.2	5	S
20250601.03	0.46	SE	4.2	5	SE
20250601.06	0.47	SE	3.8	6	SE
20250601.09	0.49	SE	3.2	5	SE
20250601.12	0.51	SE	3.1	4	SE
20250601.15	0.50	E	3.0	4	SE
20250601.18	0.48	N	3.0	4	SE
20250601.21	0.46	N	3.0	4	SE
20250602.00	0.44	N	2.9	4	S
20250602.03	0.45	NW	2.7	5	SE
20250602.06	0.51	NW	2.6	7	S
20250602.09	0.60	W	2.8	7	E
20250602.12	0.66	W	2.9	7	E
20250602.15	0.70	W	3.0	8	SE
20250602.18	0.80	NW	3.2	8	SE
20250602.21	0.91	NW	3.5	8	SE
20250603.00	1.03	NW	3.9	7	SE
20250603.03	1.14	NW	4.3	7	SE
20250603.06	1.19	N	4.5	7	SE
20250603.09	1.13	N	4.5	7	SE
20250603.12	1.03	NW	4.2	7	SE

Wind condition in the Fort-Shevchenko

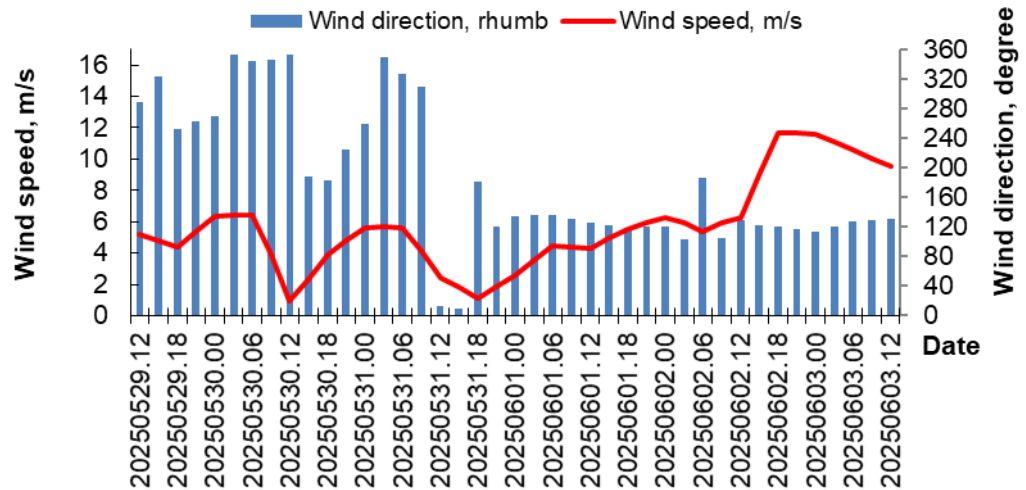


Wave condition in the Fort-Shevchenko

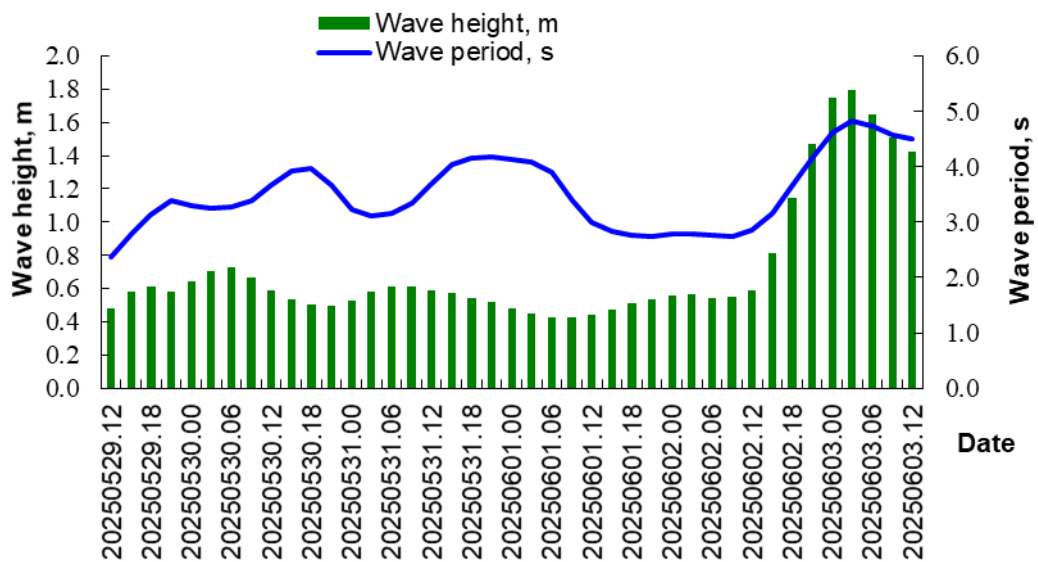


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250529.12	0.65	E	2.7	7	W
20250529.15	0.72	E	3.0	6	NW
20250529.18	0.70	SE	3.3	5	SW
20250529.21	0.66	SE	3.5	6	W
20250530.00	0.73	SE	3.4	7	W
20250530.03	0.83	S	3.4	7	N
20250530.06	0.88	S	3.5	8	NW
20250530.09	0.81	S	3.6	6	NW
20250530.12	0.71	SE	3.7	4	W
20250530.15	0.64	SE	3.8	4	NW
20250530.18	0.58	S	3.9	4	E
20250530.21	0.53	S	4.0	5	S
20250531.00	0.53	S	3.5	6	SW
20250531.03	0.57	S	3.2	6	W
20250531.06	0.57	S	3.2	6	NW
20250531.09	0.55	S	3.3	5	NW
20250531.12	0.53	S	3.5	4	NW
20250531.15	0.51	S	3.8	2	W
20250531.18	0.50	S	4.1	1	E
20250531.21	0.49	SE	4.2	3	SE
20250601.00	0.48	SE	4.2	5	SE
20250601.03	0.47	SE	4.2	5	SE
20250601.06	0.46	SE	3.8	6	SE
20250601.09	0.49	SE	3.1	6	SE
20250601.12	0.54	NE	2.9	6	SE
20250601.15	0.53	NW	2.9	4	SE
20250601.18	0.50	NW	2.9	4	SE
20250601.21	0.47	NW	2.8	4	SE
20250602.00	0.45	NW	2.7	4	S
20250602.03	0.44	NW	2.7	5	SE
20250602.06	0.44	NW	2.7	7	S
20250602.09	0.54	W	2.7	7	E
20250602.12	0.74	NW	2.9	7	E
20250602.15	0.93	NW	3.3	8	SE
20250602.18	1.10	NW	3.7	8	SE
20250602.21	1.11	NW	3.9	8	SE
20250603.00	1.06	NW	4.1	7	SE
20250603.03	1.14	NW	4.3	7	SE
20250603.06	1.24	NW	4.4	7	SE
20250603.09	1.22	NW	4.4	7	SE
20250603.12	1.15	NW	4.2	7	SE

Wind condition in the Aktau

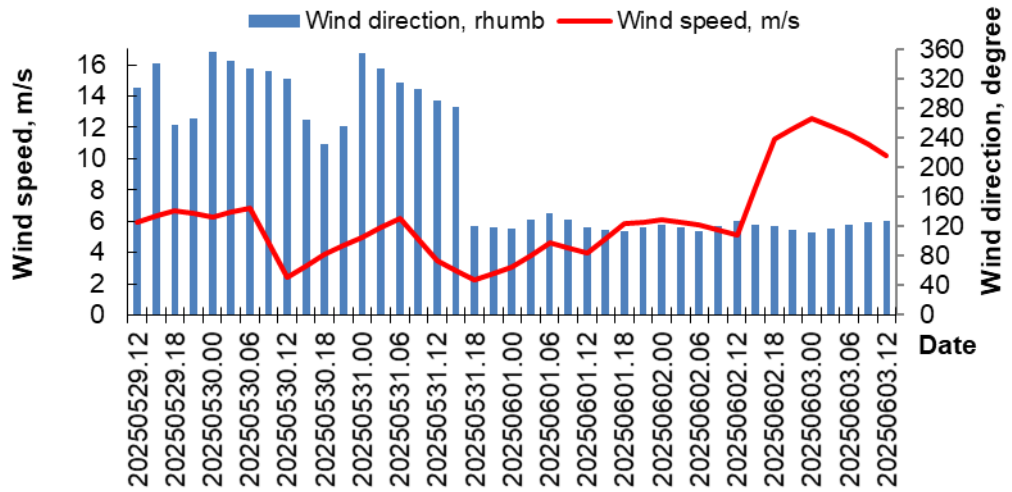


Wave condition in the Aktau

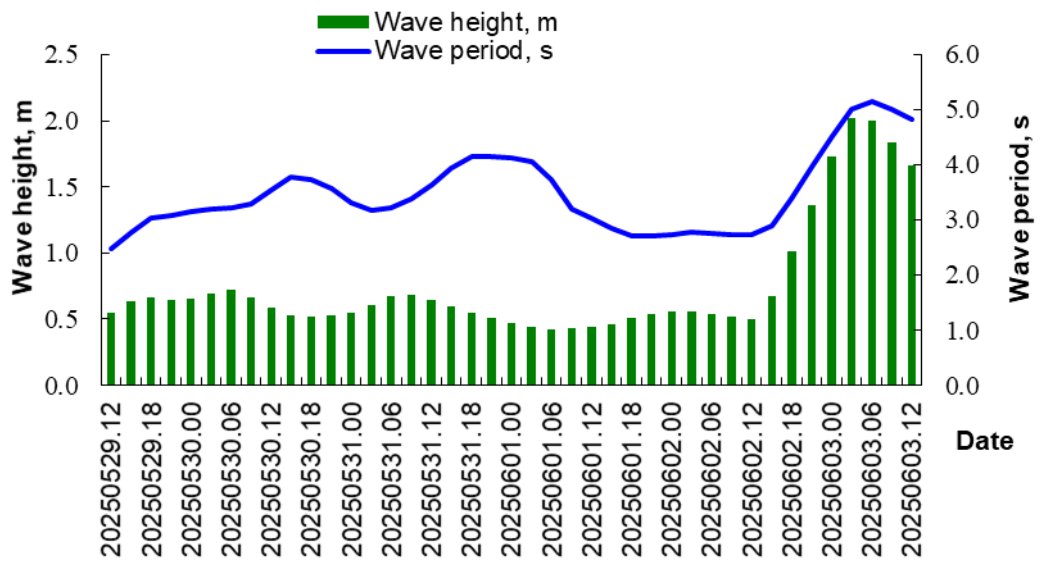


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250529.12	0.48	E	2.4	5	W
20250529.15	0.58	E	2.8	5	NW
20250529.18	0.61	SE	3.1	4	W
20250529.21	0.58	SE	3.4	5	W
20250530.00	0.64	S	3.3	6	W
20250530.03	0.71	S	3.3	6	N
20250530.06	0.73	S	3.3	6	N
20250530.09	0.66	S	3.4	4	N
20250530.12	0.59	S	3.7	1	N
20250530.15	0.53	S	3.9	2	S
20250530.18	0.50	S	4.0	4	S
20250530.21	0.50	S	3.7	5	SW
20250531.00	0.53	S	3.2	6	W
20250531.03	0.58	S	3.1	6	N
20250531.06	0.61	S	3.2	6	NW
20250531.09	0.61	SE	3.3	4	NW
20250531.12	0.59	SE	3.7	2	N
20250531.15	0.57	SE	4.0	2	N
20250531.18	0.55	SE	4.2	1	S
20250531.21	0.52	SE	4.2	2	SE
20250601.00	0.48	SE	4.1	3	SE
20250601.03	0.45	SE	4.1	4	SE
20250601.06	0.43	SE	3.9	4	SE
20250601.09	0.42	SE	3.4	4	SE
20250601.12	0.44	SE	3.0	4	SE
20250601.15	0.48	SW	2.8	5	SE
20250601.18	0.51	NW	2.8	6	SE
20250601.21	0.54	NW	2.7	6	SE
20250602.00	0.56	NW	2.8	6	SE
20250602.03	0.57	NW	2.8	6	E
20250602.06	0.54	NW	2.8	5	S
20250602.09	0.55	W	2.7	6	E
20250602.12	0.59	NW	2.9	6	SE
20250602.15	0.81	NW	3.2	9	SE
20250602.18	1.15	NW	3.6	12	SE
20250602.21	1.47	NW	4.2	12	SE
20250603.00	1.75	NW	4.6	12	SE
20250603.03	1.80	NW	4.8	11	SE
20250603.06	1.65	NW	4.7	11	SE
20250603.09	1.51	NW	4.6	10	SE
20250603.12	1.43	NW	4.5	10	SE

Wind condition in the Peschanyi

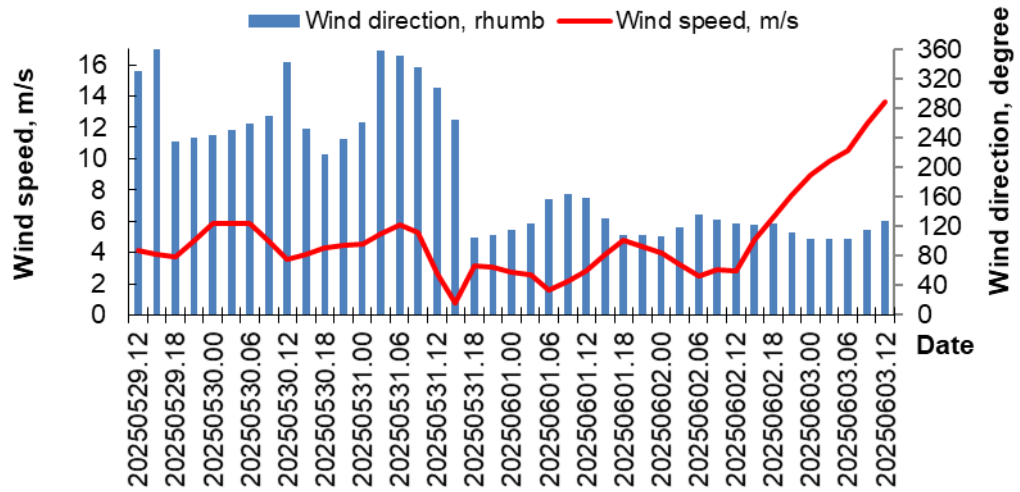


Wave condition in the Peschanyi

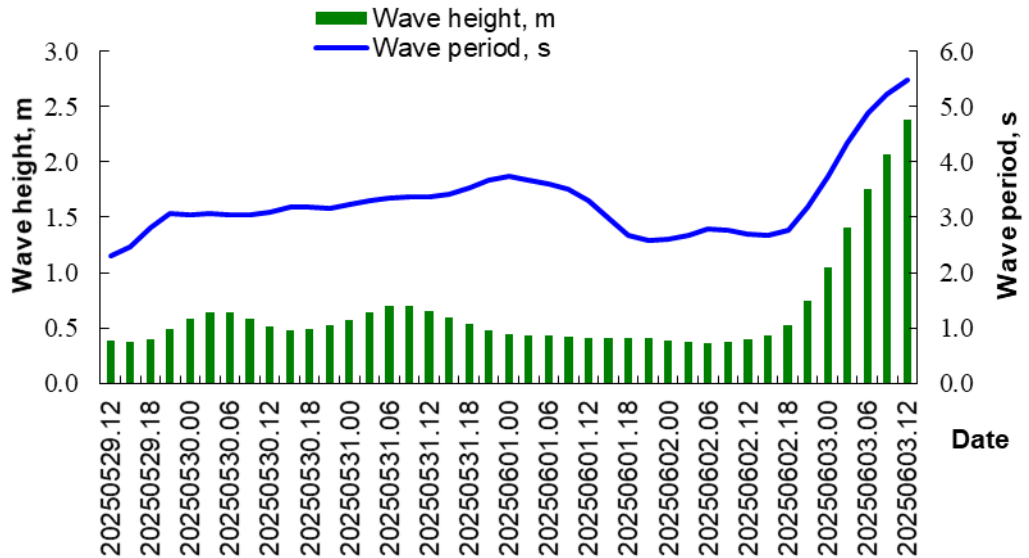


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250529.12	0.55	SE	2.5	6	NW
20250529.15	0.63	SE	2.8	6	N
20250529.18	0.66	SE	3.0	7	W
20250529.21	0.64	SE	3.1	6	W
20250530.00	0.66	S	3.2	6	N
20250530.03	0.69	S	3.2	7	N
20250530.06	0.73	S	3.2	7	NW
20250530.09	0.66	S	3.3	5	NW
20250530.12	0.58	S	3.5	2	NW
20250530.15	0.53	S	3.8	3	W
20250530.18	0.52	S	3.7	4	SW
20250530.21	0.52	S	3.6	4	W
20250531.00	0.55	S	3.3	5	N
20250531.03	0.61	S	3.2	6	NW
20250531.06	0.68	SE	3.2	6	NW
20250531.09	0.69	SE	3.4	5	NW
20250531.12	0.65	SE	3.6	3	W
20250531.15	0.60	SE	3.9	3	W
20250531.18	0.55	SE	4.1	2	SE
20250531.21	0.51	SE	4.2	3	SE
20250601.00	0.47	SE	4.1	3	SE
20250601.03	0.44	SE	4.0	4	SE
20250601.06	0.42	SE	3.7	5	SE
20250601.09	0.44	SE	3.2	4	SE
20250601.12	0.44	SE	3.0	4	SE
20250601.15	0.47	SW	2.8	5	SE
20250601.18	0.51	NW	2.7	6	SE
20250601.21	0.54	NW	2.7	6	SE
20250602.00	0.55	NW	2.7	6	SE
20250602.03	0.55	NW	2.8	6	SE
20250602.06	0.54	NW	2.8	6	SE
20250602.09	0.52	NW	2.7	5	SE
20250602.12	0.50	NW	2.7	5	SE
20250602.15	0.67	NW	2.9	8	SE
20250602.18	1.02	NW	3.4	11	SE
20250602.21	1.37	NW	4.0	12	SE
20250603.00	1.73	NW	4.5	13	E
20250603.03	2.02	NW	5.0	12	SE
20250603.06	2.00	NW	5.1	12	SE
20250603.09	1.84	NW	5.0	11	SE
20250603.12	1.67	NW	4.8	10	SE

Wind condition in the Fetisovo

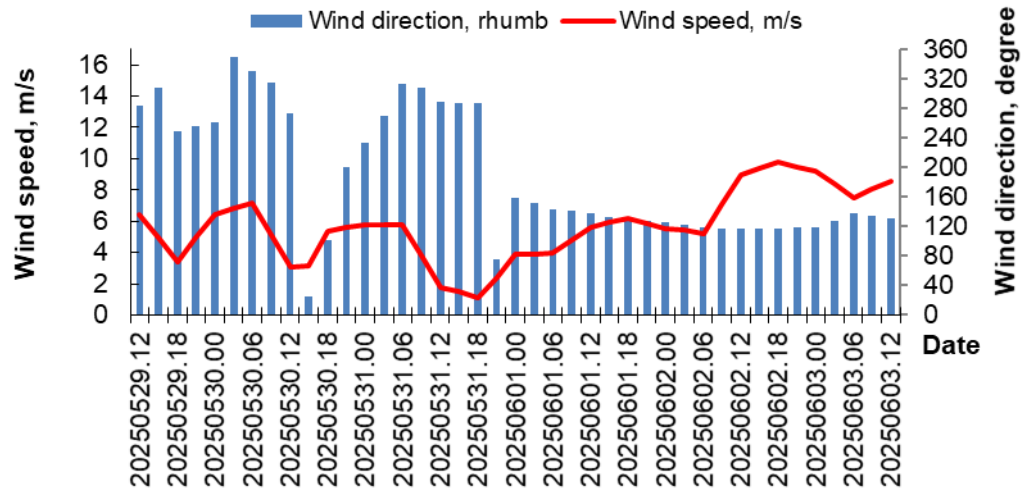


Wave condition in the Fetisovo

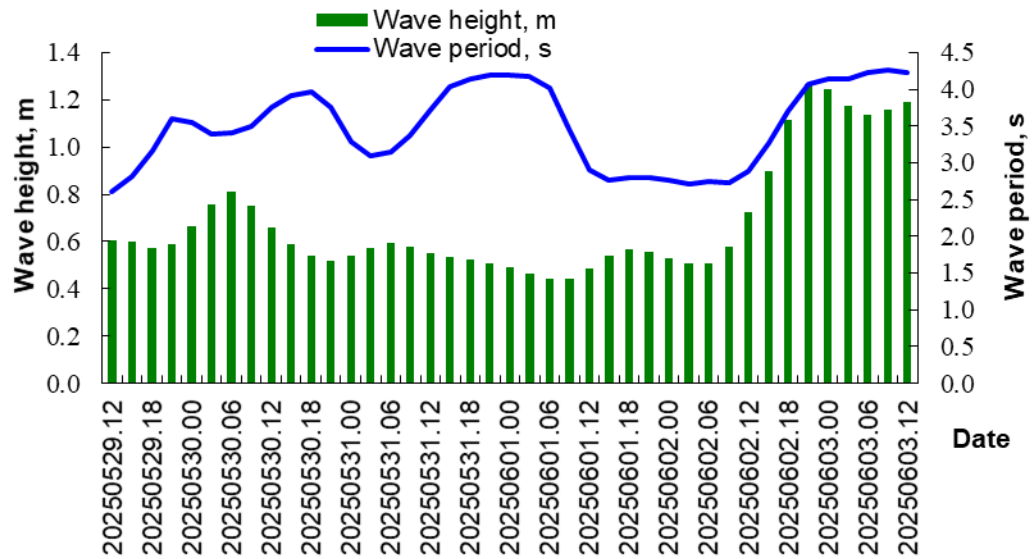


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250529.12	0.39	SE	2.3	4	NW
20250529.15	0.38	SE	2.5	4	N
20250529.18	0.40	S	2.8	4	SW
20250529.21	0.49	S	3.1	5	SW
20250530.00	0.59	S	3.1	6	SW
20250530.03	0.64	S	3.1	6	W
20250530.06	0.64	S	3.1	6	W
20250530.09	0.58	S	3.0	5	W
20250530.12	0.52	S	3.1	4	N
20250530.15	0.48	S	3.2	4	W
20250530.18	0.49	S	3.2	4	SW
20250530.21	0.53	S	3.2	4	SW
20250531.00	0.57	S	3.2	5	W
20250531.03	0.64	S	3.3	5	N
20250531.06	0.70	SE	3.3	6	N
20250531.09	0.70	SE	3.4	5	NW
20250531.12	0.66	SE	3.4	3	NW
20250531.15	0.60	SE	3.4	1	W
20250531.18	0.53	SE	3.5	3	E
20250531.21	0.48	SE	3.7	3	E
20250601.00	0.44	SE	3.8	3	SE
20250601.03	0.44	SE	3.7	3	SE
20250601.06	0.44	SE	3.6	2	SE
20250601.09	0.43	SE	3.5	2	S
20250601.12	0.41	SE	3.3	3	S
20250601.15	0.41	SE	3.0	4	SE
20250601.18	0.41	S	2.7	5	E
20250601.21	0.41	W	2.6	4	E
20250602.00	0.39	NW	2.6	4	E
20250602.03	0.38	NW	2.7	3	SE
20250602.06	0.37	NW	2.8	2	SE
20250602.09	0.37	NW	2.8	3	SE
20250602.12	0.40	NW	2.7	3	SE
20250602.15	0.43	NW	2.7	5	SE
20250602.18	0.53	NW	2.8	6	SE
20250602.21	0.74	NW	3.2	8	E
20250603.00	1.05	NW	3.8	9	E
20250603.03	1.41	NW	4.4	10	E
20250603.06	1.76	NW	4.9	11	E
20250603.09	2.07	NW	5.2	12	SE
20250603.12	2.39	NW	5.5	14	SE

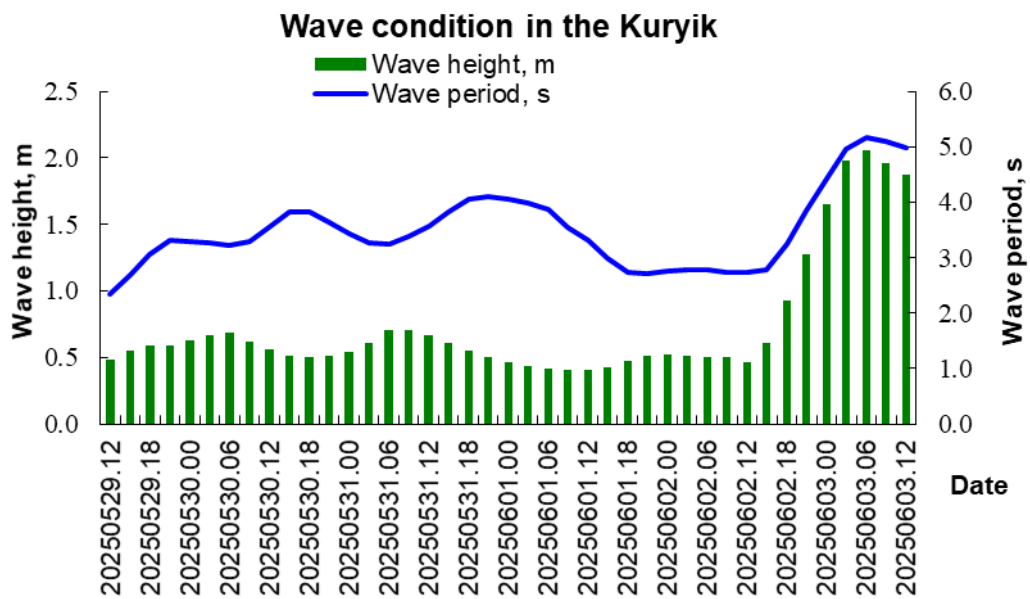
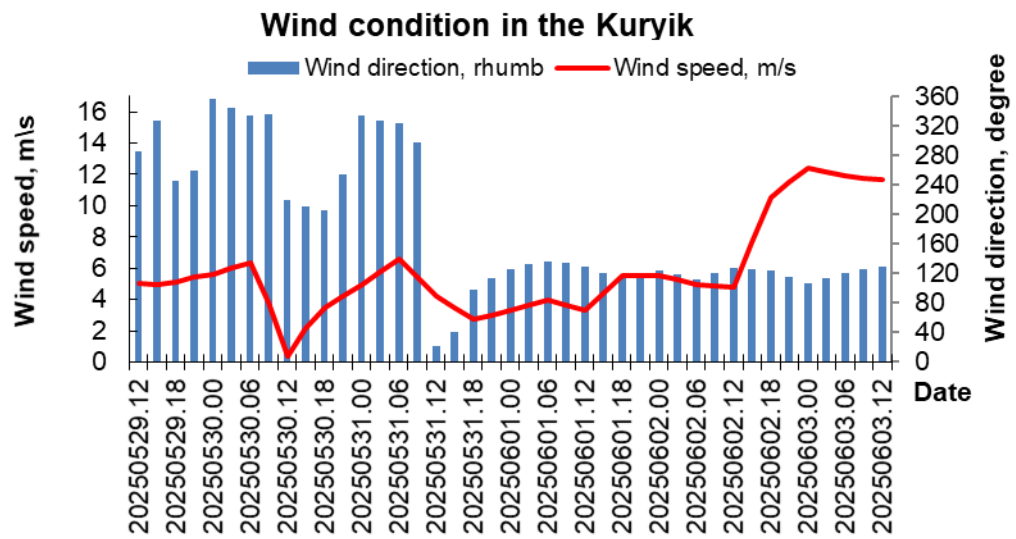
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250529.12	0.61	E	2.6	6	W
20250529.15	0.60	E	2.8	5	NW
20250529.18	0.57	SE	3.2	3	W
20250529.21	0.59	SE	3.6	5	W
20250530.00	0.67	SE	3.5	6	W
20250530.03	0.76	S	3.4	7	N
20250530.06	0.81	S	3.4	7	NW
20250530.09	0.75	S	3.5	5	NW
20250530.12	0.66	S	3.8	3	W
20250530.15	0.59	S	3.9	3	NE
20250530.18	0.54	S	4.0	5	E
20250530.21	0.52	S	3.8	6	S
20250531.00	0.54	S	3.3	6	SW
20250531.03	0.57	S	3.1	6	W
20250531.06	0.59	S	3.2	6	NW
20250531.09	0.58	S	3.4	4	NW
20250531.12	0.55	S	3.7	2	W
20250531.15	0.54	SE	4.0	1	W
20250531.18	0.52	SE	4.1	1	W
20250531.21	0.51	SE	4.2	2	E
20250601.00	0.49	SE	4.2	4	S
20250601.03	0.47	SE	4.2	4	SE
20250601.06	0.44	SE	4.0	4	SE
20250601.09	0.44	SE	3.5	5	SE
20250601.12	0.49	SE	2.9	6	SE
20250601.15	0.54	NW	2.8	6	SE
20250601.18	0.57	NW	2.8	6	SE
20250601.21	0.55	NW	2.8	6	SE
20250602.00	0.53	NW	2.8	6	SE
20250602.03	0.51	NW	2.7	5	SE
20250602.06	0.51	NW	2.7	5	SE
20250602.09	0.58	NW	2.7	7	SE
20250602.12	0.72	NW	2.9	9	SE
20250602.15	0.90	NW	3.3	9	SE
20250602.18	1.11	NW	3.7	10	SE
20250602.21	1.27	NW	4.1	9	SE
20250603.00	1.25	NW	4.1	9	SE
20250603.03	1.17	NW	4.1	8	SE
20250603.06	1.14	NW	4.2	8	SE
20250603.09	1.16	NW	4.3	8	SE
20250603.12	1.19	NW	4.2	9	SE



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250529.12	0.48	E	2.3	5	W
20250529.15	0.55	SE	2.7	5	NW
20250529.18	0.59	SE	3.1	5	SW
20250529.21	0.59	S	3.3	5	W
20250530.00	0.63	S	3.3	6	N
20250530.03	0.67	S	3.3	6	N
20250530.06	0.68	S	3.2	6	NW
20250530.09	0.62	S	3.3	4	NW
20250530.12	0.56	S	3.6	0	SW
20250530.15	0.52	S	3.8	2	SW
20250530.18	0.50	S	3.8	3	SW
20250530.21	0.51	S	3.6	4	W
20250531.00	0.54	S	3.4	5	NW
20250531.03	0.61	S	3.3	6	NW
20250531.06	0.70	SE	3.2	7	NW
20250531.09	0.71	SE	3.4	5	NW
20250531.12	0.66	SE	3.6	4	N
20250531.15	0.60	SE	3.8	3	NE
20250531.18	0.55	SE	4.1	3	E
20250531.21	0.50	SE	4.1	3	SE
20250601.00	0.46	SE	4.1	3	SE
20250601.03	0.43	SE	4.0	4	SE
20250601.06	0.41	SE	3.9	4	SE
20250601.09	0.41	SE	3.6	4	SE
20250601.12	0.41	SE	3.3	3	SE
20250601.15	0.43	SE	3.0	4	SE
20250601.18	0.47	W	2.7	5	SE
20250601.21	0.52	NW	2.7	5	SE
20250602.00	0.52	NW	2.8	5	SE
20250602.03	0.52	NW	2.8	5	SE
20250602.06	0.50	NW	2.8	5	SE
20250602.09	0.50	NW	2.7	5	SE
20250602.12	0.46	NW	2.7	5	SE
20250602.15	0.61	NW	2.8	8	SE
20250602.18	0.93	NW	3.3	10	SE
20250602.21	1.28	NW	3.9	11	SE
20250603.00	1.65	NW	4.4	12	E
20250603.03	1.98	NW	5.0	12	SE
20250603.06	2.05	NW	5.2	12	SE
20250603.09	1.96	NW	5.1	12	SE
20250603.12	1.87	NW	5.0	12	SE

**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