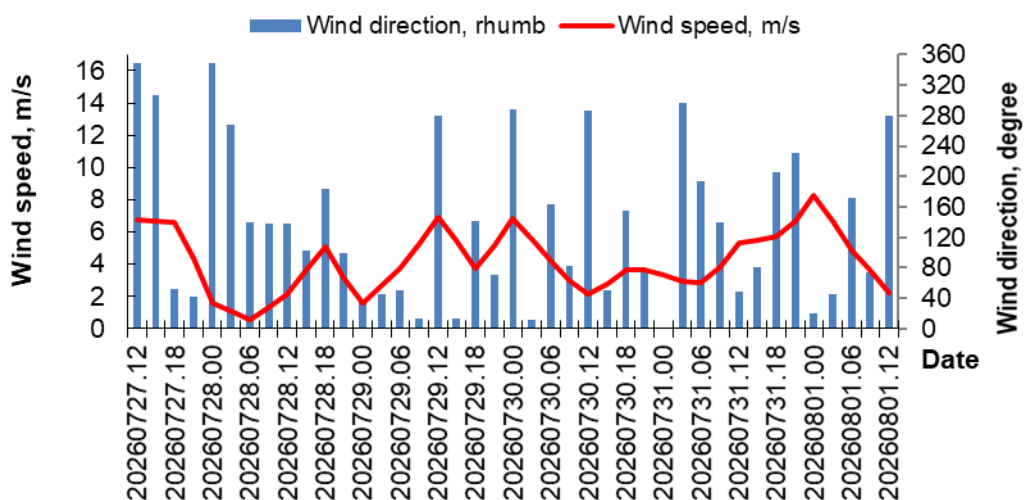




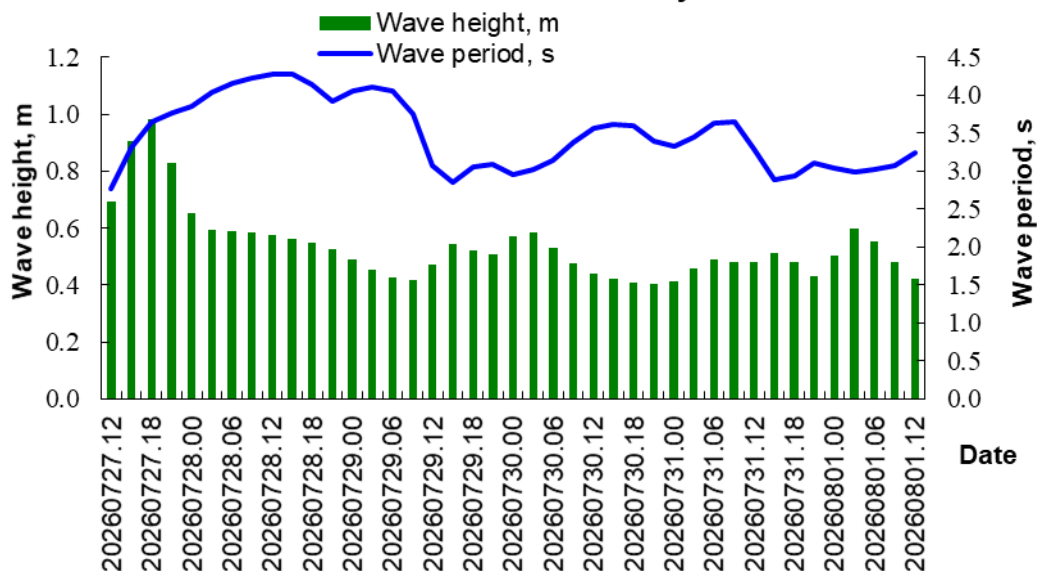
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period July 27 – August 01, 2026 .**

Wind condition in the Kulaly

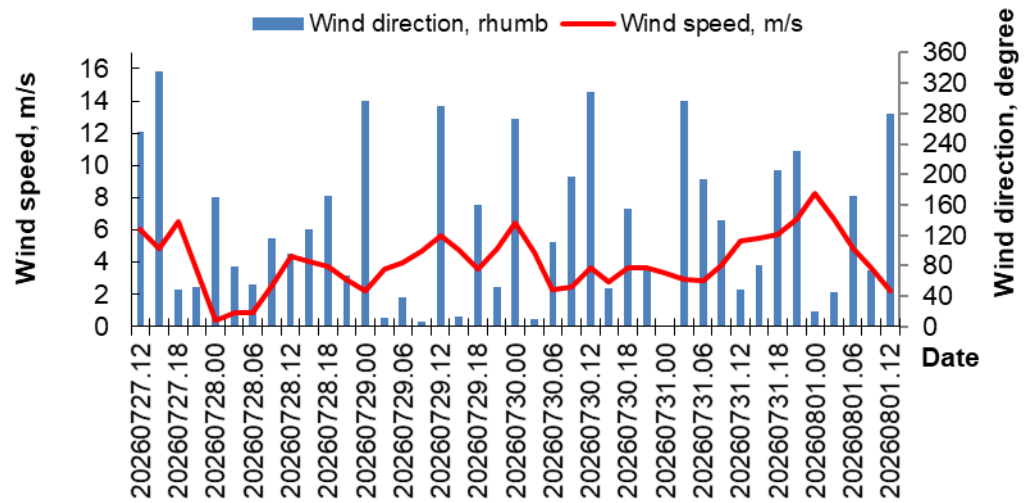


Wave condition in the Kulaly

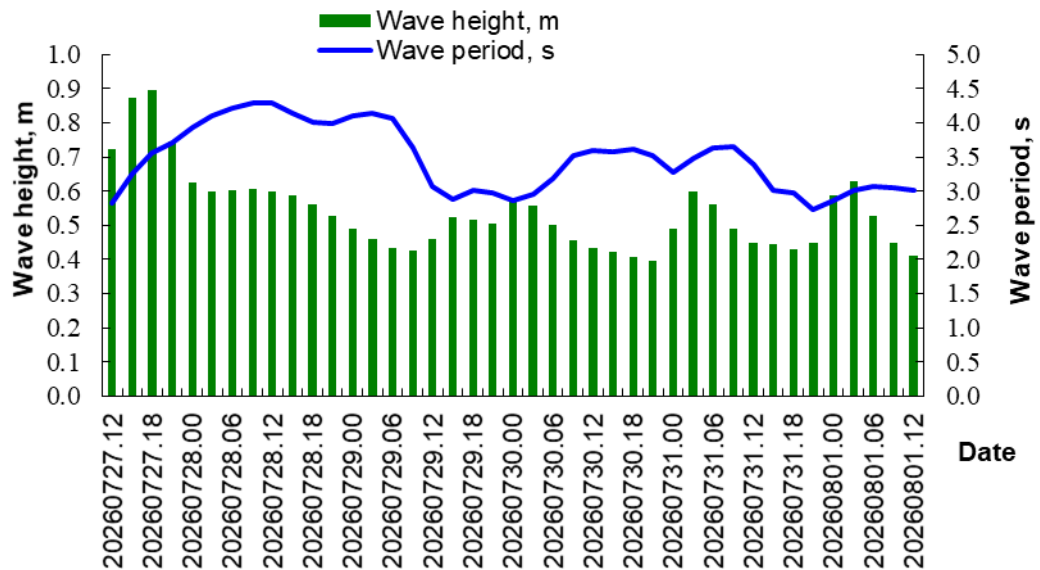


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260727.12	0.69	S	2.8	7	N
20260727.15	0.91	S	3.3	7	NW
20260727.18	0.98	S	3.7	7	NE
20260727.21	0.83	S	3.8	4	NE
20260728.00	0.65	S	3.9	2	N
20260728.03	0.59	S	4.0	1	W
20260728.06	0.59	N	4.2	1	SE
20260728.09	0.58	N	4.2	1	SE
20260728.12	0.57	NE	4.3	2	SE
20260728.15	0.56	NE	4.3	4	E
20260728.18	0.55	E	4.1	5	S
20260728.21	0.53	E	3.9	3	E
20260729.00	0.49	E	4.1	2	NE
20260729.03	0.45	E	4.1	3	NE
20260729.06	0.43	E	4.1	4	NE
20260729.09	0.42	E	3.8	5	N
20260729.12	0.47	E	3.1	7	W
20260729.15	0.54	E	2.9	5	N
20260729.18	0.52	E	3.1	4	SE
20260729.21	0.51	E	3.1	5	E
20260730.00	0.57	E	3.0	7	W
20260730.03	0.58	E	3.0	6	N
20260730.06	0.53	E	3.1	4	S
20260730.09	0.48	E	3.4	3	E
20260730.12	0.44	E	3.6	2	W
20260730.15	0.42	E	3.6	3	NE
20260730.18	0.41	E	3.6	4	SE
20260730.21	0.40	E	3.4	4	E
20260731.00	0.41	E	3.3	3	N
20260731.03	0.46	E	3.4	3	NW
20260731.06	0.49	E	3.6	3	S
20260731.09	0.48	E	3.7	4	SE
20260731.12	0.48	E	3.3	5	NE
20260731.15	0.51	NE	2.9	5	E
20260731.18	0.48	NE	2.9	6	SW
20260731.21	0.43	NE	3.1	7	SW
20260801.00	0.51	E	3.0	8	N
20260801.03	0.60	NE	3.0	7	NE
20260801.06	0.55	NE	3.0	5	S
20260801.09	0.48	NE	3.1	4	E
20260801.12	0.42	NE	3.2	2	W

Wind condition in the Fort-Shevchenko

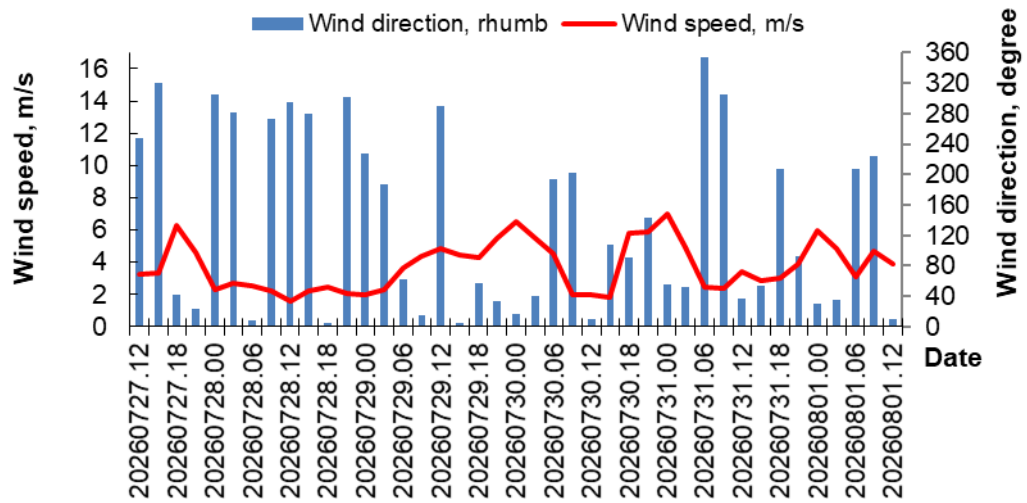


Wave condition in the Fort-Shevchenko

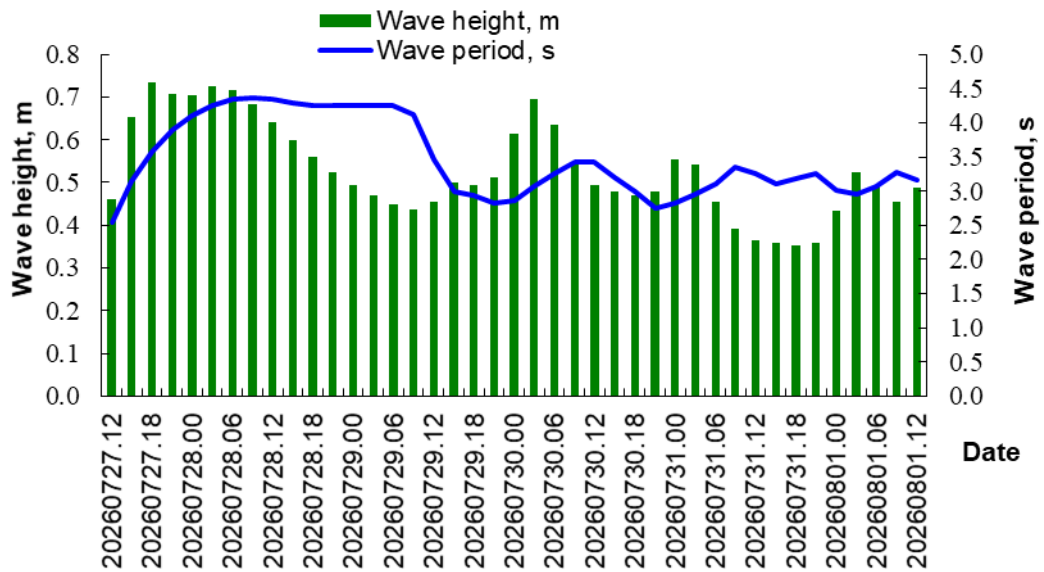


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260727.12	0.72	S	2.8	6	W
20260727.15	0.87	S	3.2	5	NW
20260727.18	0.89	S	3.6	7	NE
20260727.21	0.74	S	3.7	4	NE
20260728.00	0.63	S	3.9	0	S
20260728.03	0.60	SE	4.1	1	E
20260728.06	0.60	NE	4.2	1	NE
20260728.09	0.61	NE	4.3	3	SE
20260728.12	0.60	NE	4.3	4	E
20260728.15	0.59	E	4.1	4	SE
20260728.18	0.56	E	4.0	4	S
20260728.21	0.53	E	4.0	3	E
20260729.00	0.49	E	4.1	2	NW
20260729.03	0.46	E	4.1	4	N
20260729.06	0.43	E	4.1	4	NE
20260729.09	0.43	E	3.6	5	N
20260729.12	0.46	E	3.1	6	W
20260729.15	0.52	E	2.9	5	N
20260729.18	0.51	E	3.0	4	S
20260729.21	0.50	E	3.0	5	NE
20260730.00	0.57	E	2.9	6	W
20260730.03	0.56	E	3.0	5	N
20260730.06	0.50	E	3.2	2	E
20260730.09	0.46	E	3.5	2	S
20260730.12	0.43	E	3.6	4	NW
20260730.15	0.42	E	3.6	3	NE
20260730.18	0.41	E	3.6	4	SE
20260730.21	0.40	E	3.5	4	E
20260731.00	0.49	E	3.3	3	N
20260731.03	0.60	E	3.5	3	NW
20260731.06	0.56	E	3.6	3	S
20260731.09	0.49	E	3.6	4	SE
20260731.12	0.45	NE	3.4	5	NE
20260731.15	0.45	NE	3.0	5	E
20260731.18	0.43	NE	3.0	6	SW
20260731.21	0.45	NE	2.7	7	SW
20260801.00	0.59	NE	2.9	8	N
20260801.03	0.63	NE	3.0	7	NE
20260801.06	0.53	NE	3.1	5	S
20260801.09	0.45	NE	3.1	4	E
20260801.12	0.41	NE	3.0	2	W

Wind condition in the Aktau

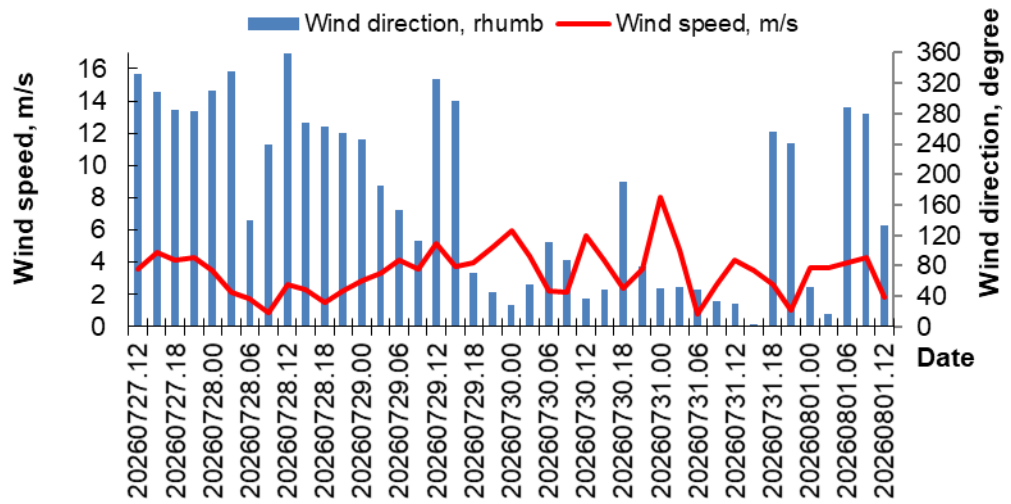


Wave condition in the Aktau

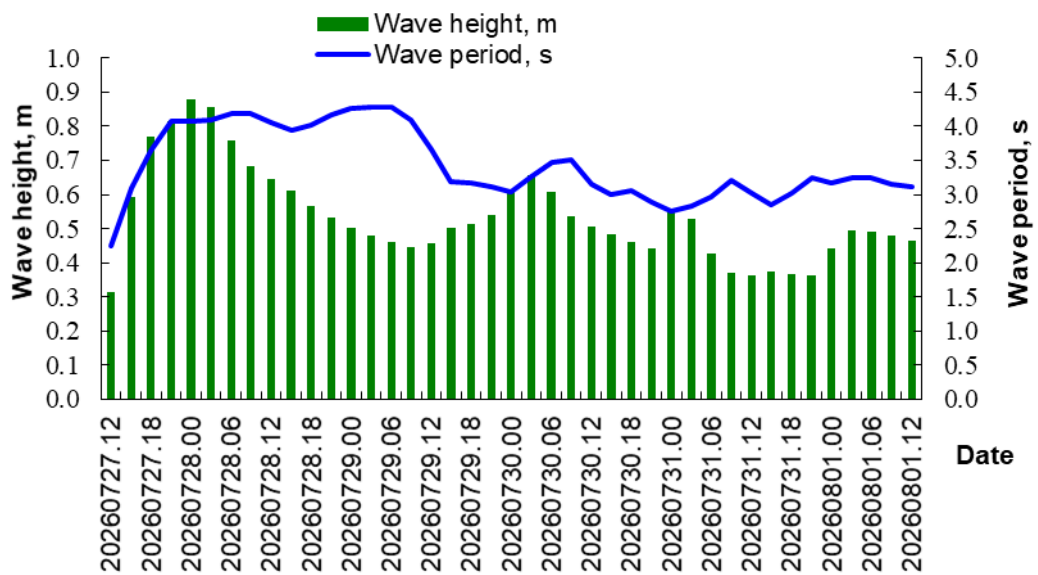


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260727.12	0.46	S	2.5	3	SW
20260727.15	0.65	S	3.1	3	NW
20260727.18	0.73	S	3.6	6	NE
20260727.21	0.71	SE	3.9	5	NE
20260728.00	0.70	SE	4.1	2	NW
20260728.03	0.72	E	4.3	3	W
20260728.06	0.72	E	4.3	3	N
20260728.09	0.68	E	4.4	2	W
20260728.12	0.64	E	4.4	2	NW
20260728.15	0.60	E	4.3	2	W
20260728.18	0.56	E	4.3	2	N
20260728.21	0.52	E	4.2	2	NW
20260729.00	0.50	E	4.2	2	SW
20260729.03	0.47	E	4.3	2	S
20260729.06	0.45	E	4.3	4	NE
20260729.09	0.44	E	4.1	4	N
20260729.12	0.46	E	3.5	5	W
20260729.15	0.50	E	3.0	4	N
20260729.18	0.49	E	2.9	4	NE
20260729.21	0.51	E	2.8	6	NE
20260730.00	0.61	E	2.9	7	N
20260730.03	0.70	E	3.1	5	NE
20260730.06	0.64	E	3.2	5	S
20260730.09	0.54	E	3.4	2	S
20260730.12	0.49	E	3.4	2	N
20260730.15	0.48	E	3.2	2	E
20260730.18	0.47	E	3.0	6	E
20260730.21	0.48	NE	2.7	6	SE
20260731.00	0.55	NE	2.8	7	NE
20260731.03	0.54	NE	3.0	5	NE
20260731.06	0.45	NE	3.1	2	N
20260731.09	0.39	NE	3.3	2	NW
20260731.12	0.36	NE	3.3	3	NE
20260731.15	0.36	NE	3.1	3	NE
20260731.18	0.35	NE	3.2	3	SW
20260731.21	0.36	NE	3.3	4	E
20260801.00	0.43	NE	3.0	6	NE
20260801.03	0.52	NE	3.0	5	NE
20260801.06	0.49	NE	3.1	3	SW
20260801.09	0.45	NE	3.3	5	SW
20260801.12	0.49	E	3.2	4	N

Wind condition in the Peschanyi

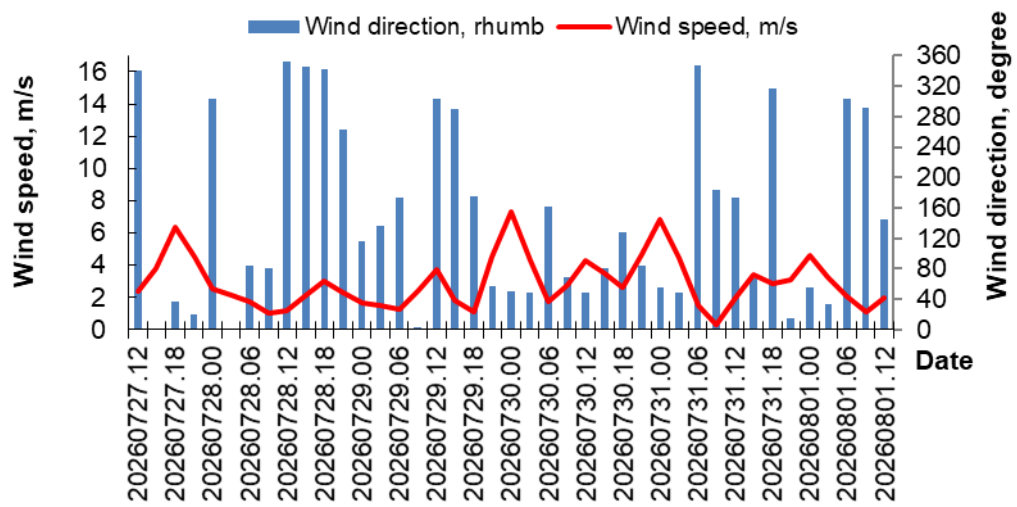


Wave condition in the Peschanyi

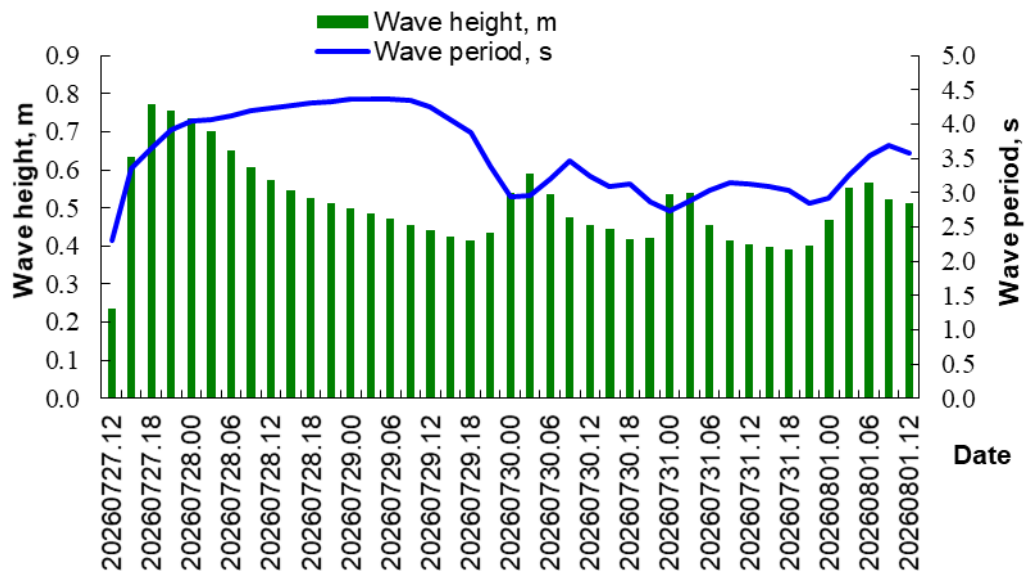


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260727.12	0.31	SE	2.2	4	NW
20260727.15	0.59	SE	3.1	5	NW
20260727.18	0.77	SE	3.6	4	W
20260727.21	0.82	E	4.1	4	W
20260728.00	0.88	E	4.1	4	NW
20260728.03	0.86	E	4.1	2	NW
20260728.06	0.76	E	4.2	2	SE
20260728.09	0.68	E	4.2	1	SW
20260728.12	0.65	SE	4.1	3	N
20260728.15	0.61	SE	3.9	2	W
20260728.18	0.57	E	4.0	1	W
20260728.21	0.53	E	4.2	2	W
20260729.00	0.50	E	4.3	3	SW
20260729.03	0.48	E	4.3	3	S
20260729.06	0.46	E	4.3	4	SE
20260729.09	0.45	E	4.1	4	SE
20260729.12	0.46	E	3.7	5	NW
20260729.15	0.50	E	3.2	4	NW
20260729.18	0.51	E	3.2	4	E
20260729.21	0.54	E	3.1	5	NE
20260730.00	0.62	E	3.0	6	NE
20260730.03	0.66	NE	3.3	4	NE
20260730.06	0.61	NE	3.5	2	E
20260730.09	0.54	NE	3.5	2	E
20260730.12	0.51	NE	3.2	6	NE
20260730.15	0.48	NE	3.0	4	NE
20260730.18	0.46	NE	3.1	2	S
20260730.21	0.44	NE	2.9	4	E
20260731.00	0.55	NE	2.8	8	NE
20260731.03	0.53	NE	2.8	5	NE
20260731.06	0.43	NE	3.0	1	NE
20260731.09	0.37	NE	3.2	3	NE
20260731.12	0.36	NE	3.0	4	NE
20260731.15	0.37	NE	2.8	3	N
20260731.18	0.37	NE	3.0	3	W
20260731.21	0.36	NE	3.2	1	SW
20260801.00	0.44	NE	3.2	4	NE
20260801.03	0.50	NE	3.2	4	N
20260801.06	0.49	NE	3.2	4	W
20260801.09	0.48	NE	3.2	4	W
20260801.12	0.46	E	3.1	2	SE

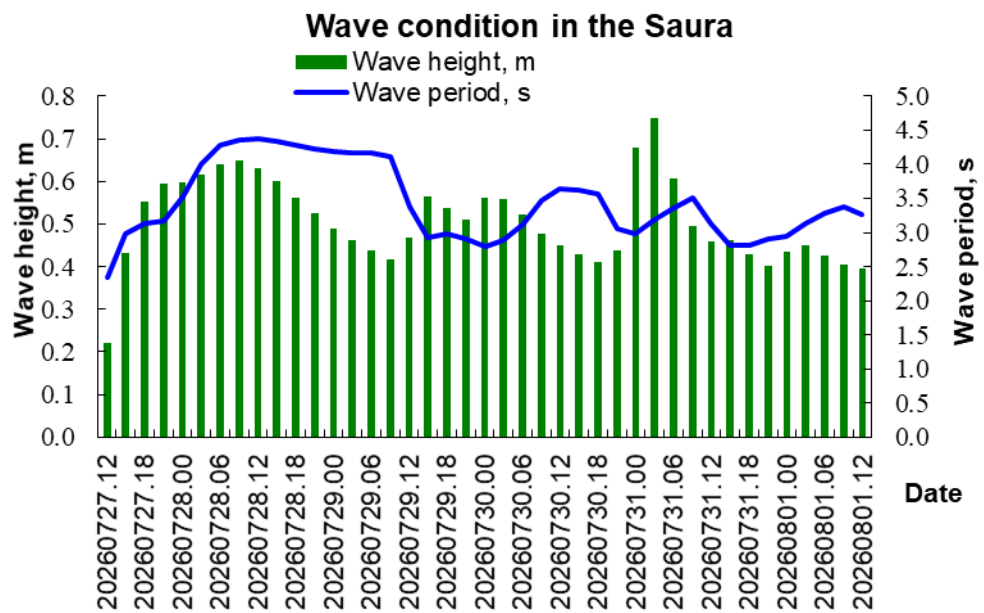
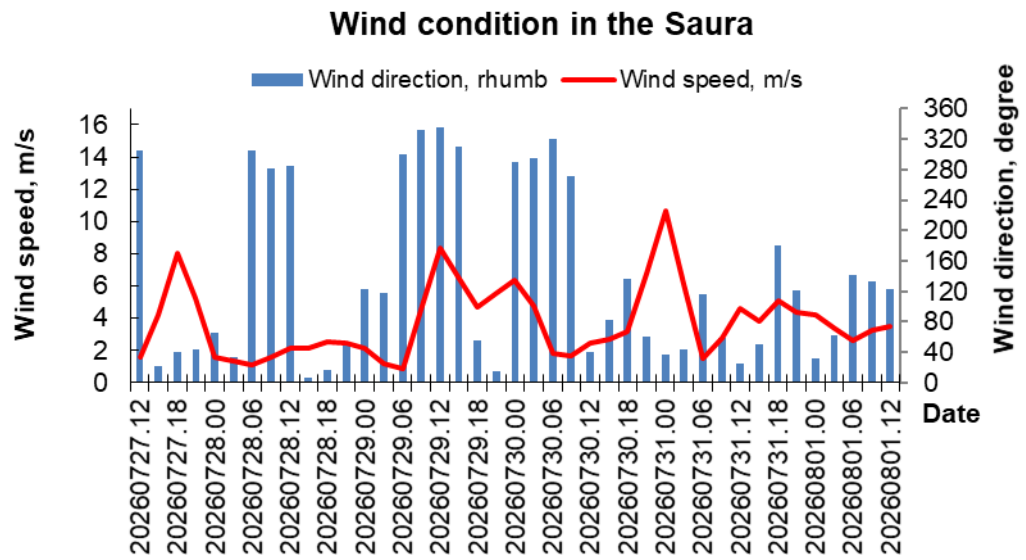
Wind condition in the Fetisovo



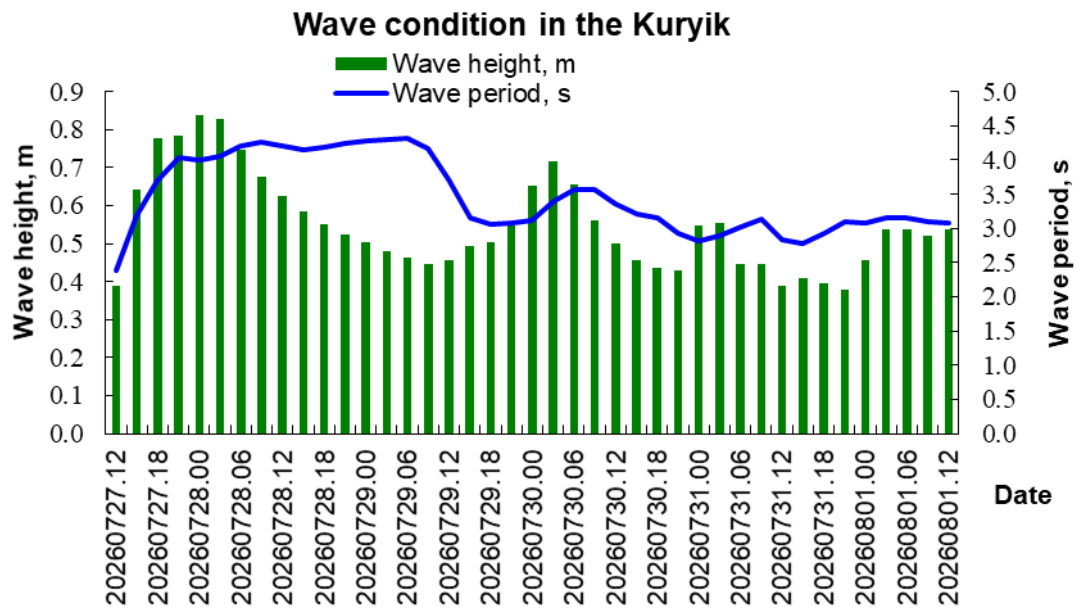
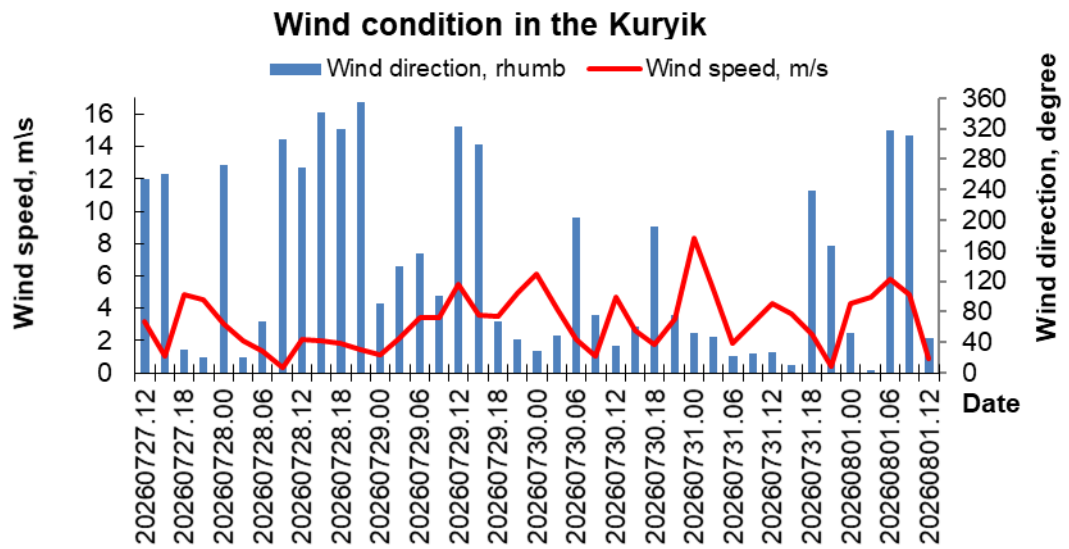
Wave condition in the Fetisovo



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260727.12	0.23	S	2.3	2	N
20260727.15	0.63	SE	3.4	4	N
20260727.18	0.77	SE	3.6	6	NE
20260727.21	0.76	E	3.9	5	N
20260728.00	0.74	E	4.0	3	NW
20260728.03	0.70	E	4.1	2	N
20260728.06	0.65	E	4.1	2	E
20260728.09	0.61	E	4.2	1	E
20260728.12	0.57	E	4.2	1	N
20260728.15	0.55	NE	4.3	2	N
20260728.18	0.53	NE	4.3	3	N
20260728.21	0.51	NE	4.3	2	W
20260729.00	0.50	NE	4.4	2	SE
20260729.03	0.49	NE	4.4	2	SE
20260729.06	0.47	NE	4.4	1	S
20260729.09	0.46	NE	4.3	2	N
20260729.12	0.44	NE	4.3	4	NW
20260729.15	0.42	NE	4.1	2	W
20260729.18	0.42	NE	3.9	1	S
20260729.21	0.44	NE	3.4	5	NE
20260730.00	0.54	NE	2.9	7	NE
20260730.03	0.59	NE	3.0	4	NE
20260730.06	0.54	NE	3.2	2	S
20260730.09	0.48	NE	3.5	3	E
20260730.12	0.45	NE	3.2	4	NE
20260730.15	0.44	NE	3.1	3	E
20260730.18	0.42	NE	3.1	3	SE
20260730.21	0.42	NE	2.9	5	E
20260731.00	0.54	NE	2.7	7	NE
20260731.03	0.54	NE	2.9	4	NE
20260731.06	0.46	NE	3.0	1	N
20260731.09	0.42	NE	3.1	0	S
20260731.12	0.41	NE	3.1	2	S
20260731.15	0.40	NE	3.1	3	E
20260731.18	0.39	NE	3.0	3	NW
20260731.21	0.40	NE	2.9	3	N
20260801.00	0.47	NE	2.9	5	NE
20260801.03	0.55	NE	3.3	3	NE
20260801.06	0.57	NE	3.5	2	NW
20260801.09	0.52	NE	3.7	1	W
20260801.12	0.51	NE	3.6	2	SE



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260727.12	0.22	S	2.3	2	NW
20260727.15	0.43	S	3.0	4	N
20260727.18	0.55	S	3.1	8	NE
20260727.21	0.59	SE	3.2	5	NE
20260728.00	0.60	E	3.5	2	NE
20260728.03	0.61	NE	4.0	1	NE
20260728.06	0.64	NE	4.3	1	NW
20260728.09	0.65	NE	4.4	2	W
20260728.12	0.63	E	4.4	2	W
20260728.15	0.60	E	4.3	2	N
20260728.18	0.56	E	4.3	3	N
20260728.21	0.52	E	4.2	2	NE
20260729.00	0.49	E	4.2	2	SE
20260729.03	0.46	E	4.2	1	SE
20260729.06	0.44	E	4.2	1	NW
20260729.09	0.42	E	4.1	5	NW
20260729.12	0.47	E	3.4	8	NW
20260729.15	0.56	SE	2.9	6	NW
20260729.18	0.54	E	3.0	5	NE
20260729.21	0.51	E	2.9	6	N
20260730.00	0.56	E	2.8	6	W
20260730.03	0.56	E	2.9	5	NW
20260730.06	0.52	E	3.1	2	NW
20260730.09	0.48	E	3.5	2	W
20260730.12	0.45	E	3.6	2	NE
20260730.15	0.43	E	3.6	3	E
20260730.18	0.41	E	3.6	3	SE
20260730.21	0.44	E	3.1	7	NE
20260731.00	0.68	NE	3.0	11	NE
20260731.03	0.75	NE	3.2	6	NE
20260731.06	0.61	NE	3.4	2	SE
20260731.09	0.49	NE	3.5	3	NE
20260731.12	0.46	NE	3.1	5	NE
20260731.15	0.46	NE	2.8	4	NE
20260731.18	0.43	NE	2.8	5	S
20260731.21	0.40	NE	2.9	4	SE
20260801.00	0.44	NE	3.0	4	NE
20260801.03	0.45	NE	3.1	3	NE
20260801.06	0.43	NE	3.3	3	SE
20260801.09	0.40	NE	3.4	3	SE
20260801.12	0.39	NE	3.3	3	SE



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260727.12	0.39	S	2.4	3	W
20260727.15	0.64	S	3.2	1	W
20260727.18	0.78	SE	3.7	5	NE
20260727.21	0.78	SE	4.0	5	N
20260728.00	0.84	E	4.0	3	W
20260728.03	0.83	E	4.1	2	N
20260728.06	0.75	E	4.2	1	NE
20260728.09	0.68	E	4.3	0	NW
20260728.12	0.62	E	4.2	2	W
20260728.15	0.59	E	4.1	2	N
20260728.18	0.55	E	4.2	2	NW
20260728.21	0.53	E	4.2	1	N
20260729.00	0.50	E	4.3	1	E
20260729.03	0.48	NE	4.3	2	SE
20260729.06	0.46	E	4.3	3	SE
20260729.09	0.45	NE	4.2	3	E
20260729.12	0.46	E	3.7	5	NW
20260729.15	0.49	E	3.2	4	NW
20260729.18	0.50	E	3.1	4	NE
20260729.21	0.55	NE	3.1	5	NE
20260730.00	0.65	NE	3.1	6	NE
20260730.03	0.72	NE	3.4	4	NE
20260730.06	0.66	NE	3.6	2	SW
20260730.09	0.56	NE	3.6	1	E
20260730.12	0.50	NE	3.4	5	NE
20260730.15	0.46	NE	3.2	3	NE
20260730.18	0.44	NE	3.2	2	S
20260730.21	0.43	NE	2.9	3	E
20260731.00	0.55	NE	2.8	8	NE
20260731.03	0.55	NE	2.9	5	NE
20260731.06	0.45	NE	3.0	2	N
20260731.09	0.45	NE	3.1	3	NE
20260731.12	0.39	NE	2.8	4	NE
20260731.15	0.41	NE	2.8	4	N
20260731.18	0.40	NE	2.9	2	SW
20260731.21	0.38	NE	3.1	0	S
20260801.00	0.46	NE	3.1	4	NE
20260801.03	0.54	NE	3.2	5	N
20260801.06	0.54	NE	3.1	6	NW
20260801.09	0.52	E	3.1	5	NW
20260801.12	0.54	E	3.1	1	NE

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

Compiled by: Kurmangalieva A.K.

Checked by: Zhagparova N.N.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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