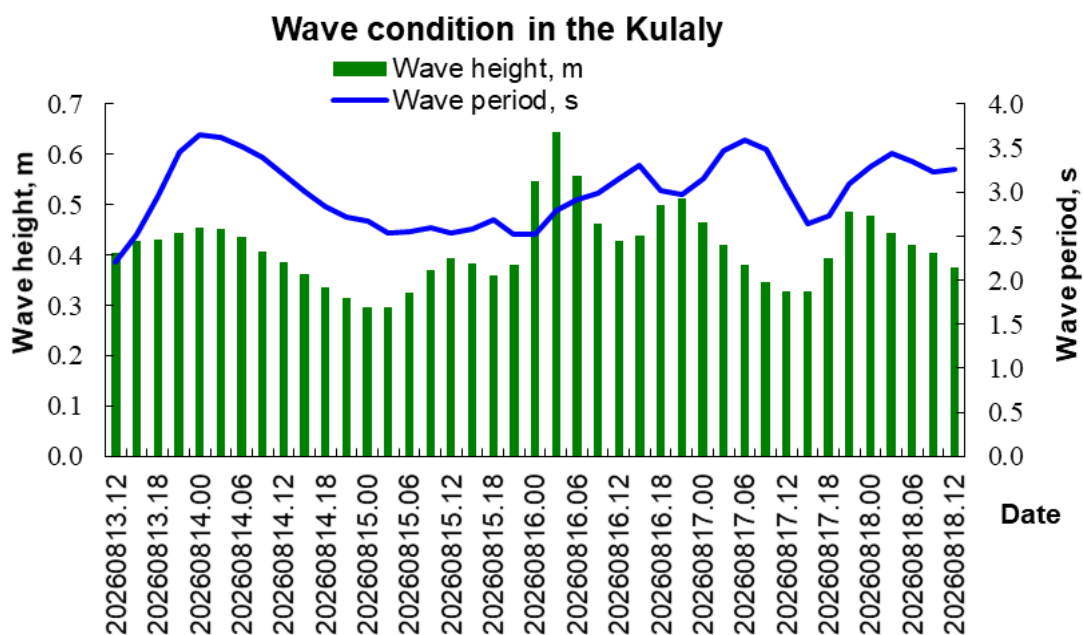
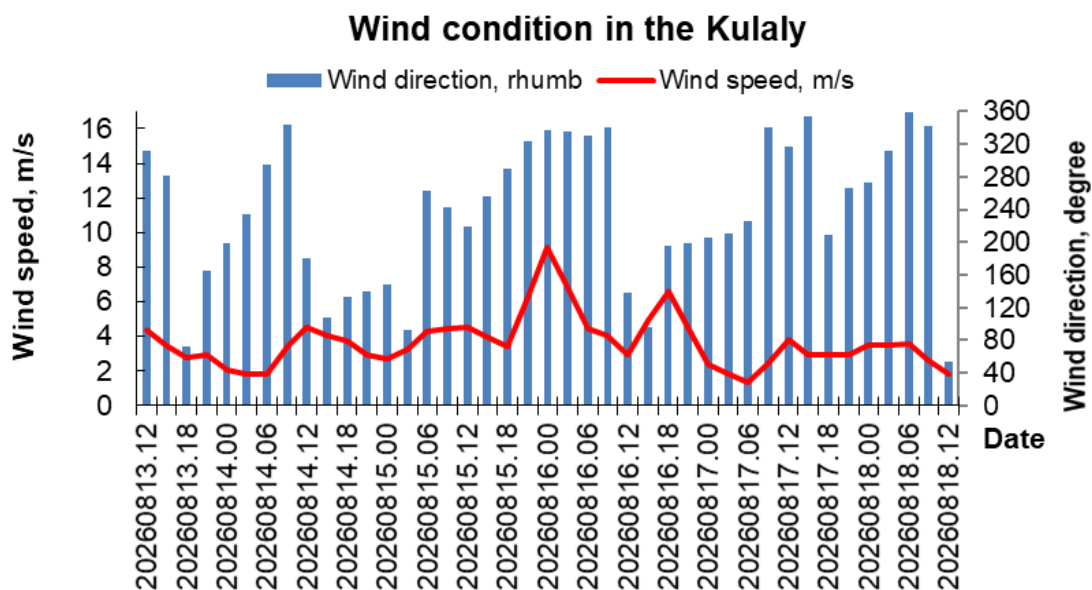




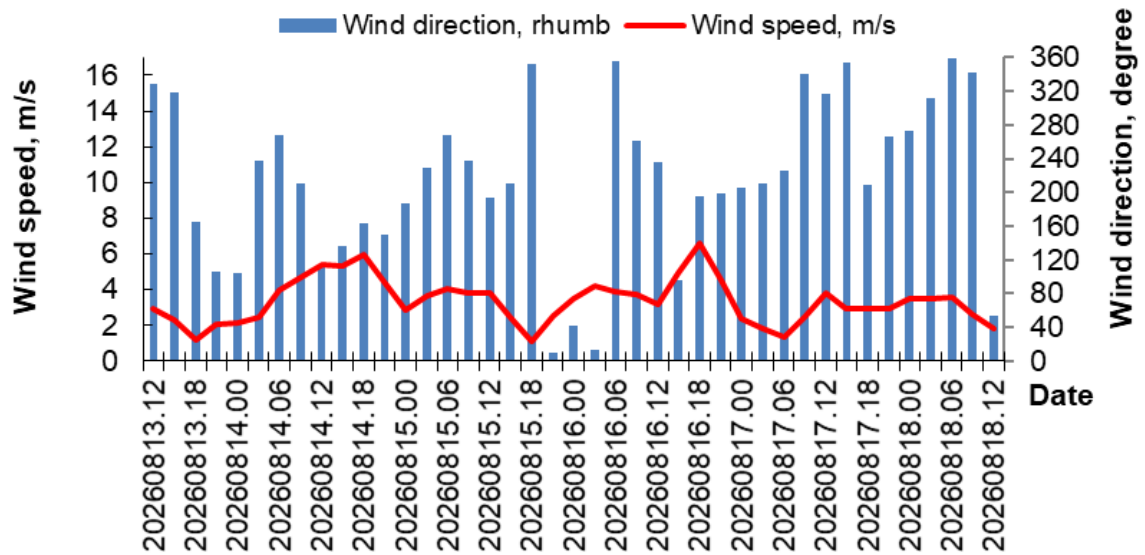
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period August 13 – 18, 2026 .**

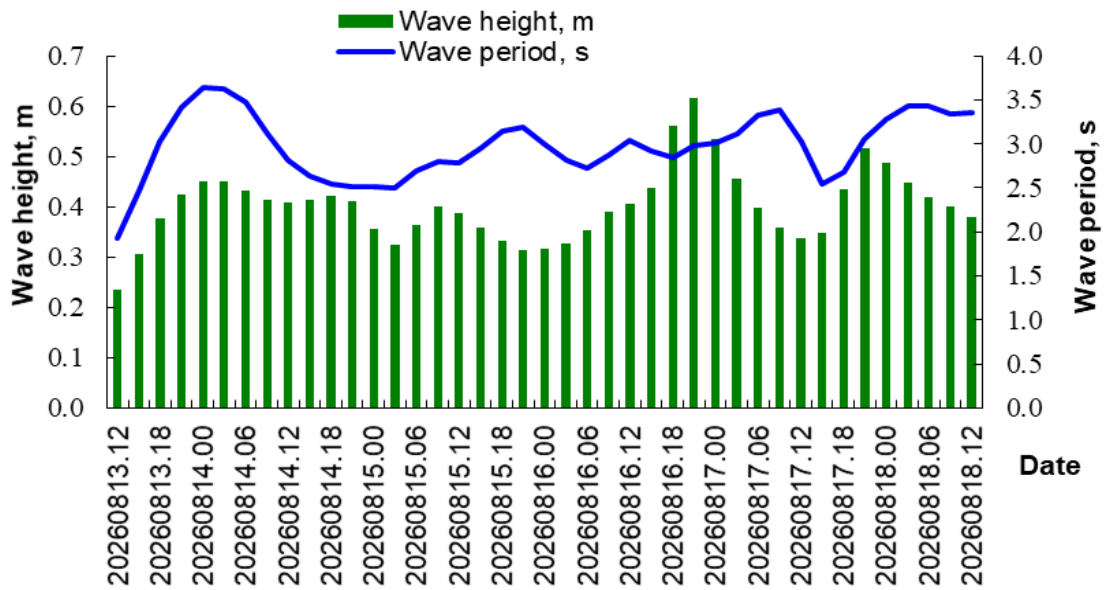


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260813.12	0.40	SE	2.2	4	NW
20260813.15	0.43	SE	2.5	3	W
20260813.18	0.43	S	3.0	3	E
20260813.21	0.44	S	3.5	3	S
20260814.00	0.45	S	3.7	2	S
20260814.03	0.45	S	3.6	2	SW
20260814.06	0.44	S	3.5	2	NW
20260814.09	0.41	S	3.4	3	N
20260814.12	0.39	S	3.2	5	S
20260814.15	0.36	S	3.0	4	E
20260814.18	0.34	S	2.8	4	SE
20260814.21	0.32	S	2.7	3	SE
20260815.00	0.30	S	2.7	3	SE
20260815.03	0.30	S	2.5	3	E
20260815.06	0.33	S	2.6	4	W
20260815.09	0.37	S	2.6	4	SW
20260815.12	0.39	S	2.5	5	SW
20260815.15	0.38	S	2.6	4	W
20260815.18	0.36	S	2.7	3	W
20260815.21	0.38	S	2.5	6	NW
20260816.00	0.55	S	2.5	9	NW
20260816.03	0.64	S	2.8	7	NW
20260816.06	0.56	S	2.9	4	NW
20260816.09	0.46	S	3.0	4	N
20260816.12	0.43	S	3.2	3	SE
20260816.15	0.44	SW	3.3	5	E
20260816.18	0.50	SW	3.0	7	S
20260816.21	0.51	SW	3.0	5	S
20260817.00	0.47	SW	3.2	2	SW
20260817.03	0.42	SW	3.5	2	SW
20260817.06	0.38	SW	3.6	1	SW
20260817.09	0.35	SW	3.5	2	N
20260817.12	0.33	SW	3.1	4	NW
20260817.15	0.33	SW	2.6	3	N
20260817.18	0.39	SW	2.7	3	SW
20260817.21	0.49	W	3.1	3	W
20260818.00	0.48	W	3.3	3	W
20260818.03	0.45	W	3.4	3	NW
20260818.06	0.42	SW	3.4	4	N
20260818.09	0.40	SW	3.2	3	N
20260818.12	0.38	SW	3.3	2	NE

Wind condition in the Fort-Shevchenko

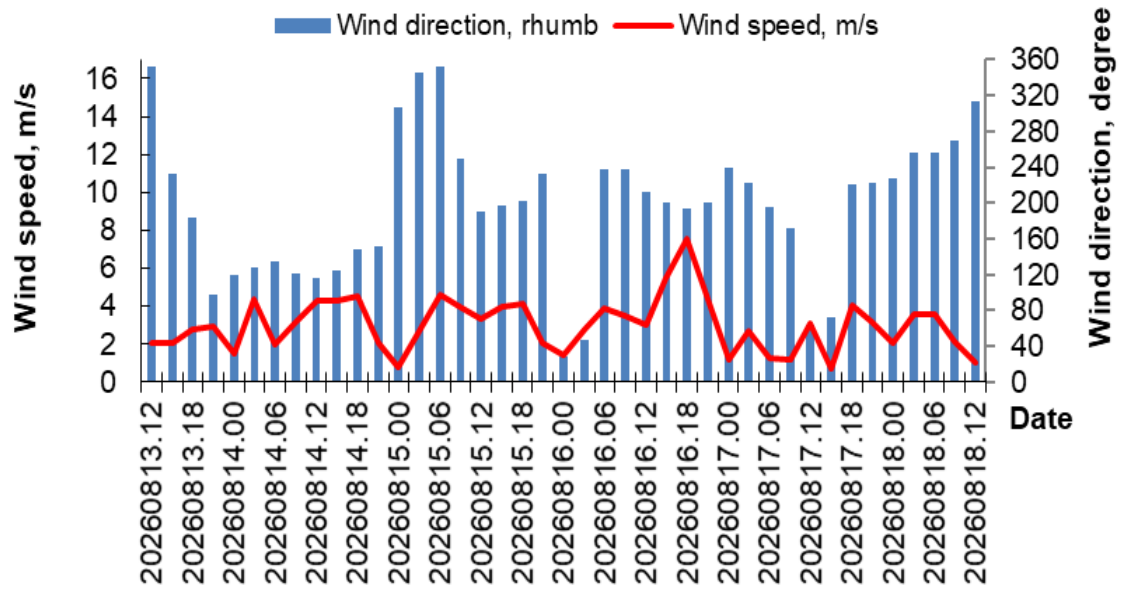


Wave condition in the Fort-Shevchenko

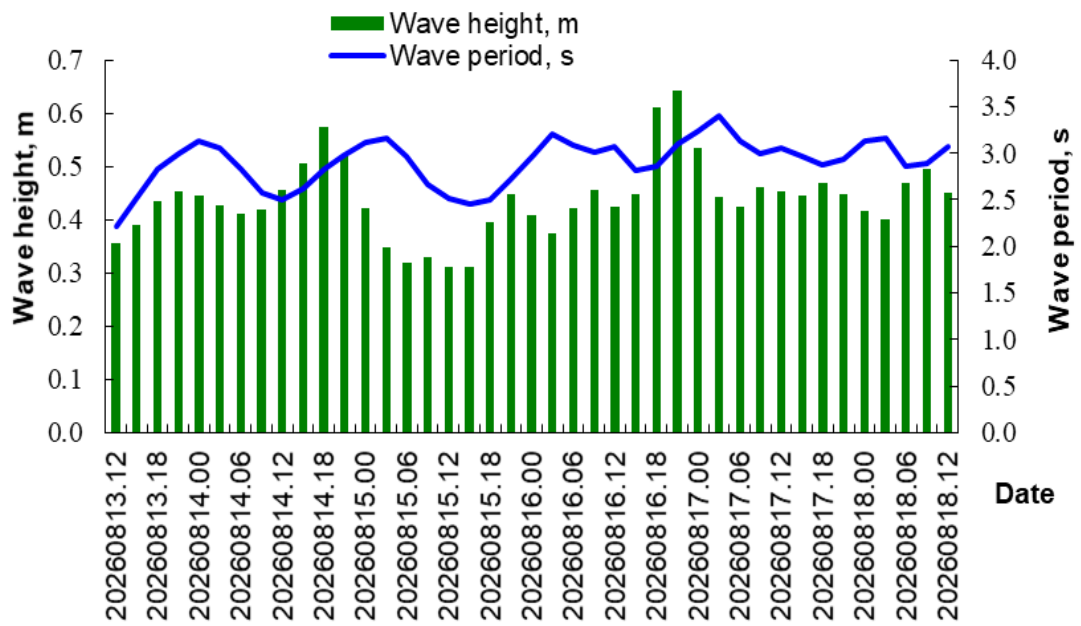


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260813.12	0.23	SE	1.9	3	NW
20260813.15	0.31	S	2.5	2	NW
20260813.18	0.38	S	3.0	1	S
20260813.21	0.42	S	3.4	2	E
20260814.00	0.45	S	3.6	2	E
20260814.03	0.45	S	3.6	2	SW
20260814.06	0.43	S	3.5	4	W
20260814.09	0.41	S	3.1	5	SW
20260814.12	0.41	S	2.8	5	E
20260814.15	0.41	SW	2.6	5	SE
20260814.18	0.42	SW	2.6	6	S
20260814.21	0.41	W	2.5	4	SE
20260815.00	0.36	W	2.5	3	S
20260815.03	0.33	SW	2.5	4	SW
20260815.06	0.37	S	2.7	4	W
20260815.09	0.40	S	2.8	4	SW
20260815.12	0.39	S	2.8	4	S
20260815.15	0.36	S	2.9	2	SW
20260815.18	0.33	S	3.2	1	N
20260815.21	0.31	S	3.2	3	N
20260816.00	0.32	S	3.0	3	NE
20260816.03	0.33	S	2.8	4	N
20260816.06	0.35	S	2.7	4	N
20260816.09	0.39	S	2.9	4	W
20260816.12	0.41	S	3.0	3	SW
20260816.15	0.44	SW	2.9	5	E
20260816.18	0.56	SW	2.8	7	S
20260816.21	0.62	SW	3.0	5	S
20260817.00	0.54	SW	3.0	2	SW
20260817.03	0.46	SW	3.1	2	SW
20260817.06	0.40	SW	3.3	1	SW
20260817.09	0.36	SW	3.4	2	N
20260817.12	0.34	SW	3.0	4	NW
20260817.15	0.35	SW	2.6	3	N
20260817.18	0.44	W	2.7	3	SW
20260817.21	0.52	W	3.1	3	W
20260818.00	0.49	W	3.3	3	W
20260818.03	0.45	W	3.4	3	NW
20260818.06	0.42	W	3.4	4	N
20260818.09	0.40	SW	3.3	3	N
20260818.12	0.38	SW	3.4	2	NE

Wind condition in the Aktau

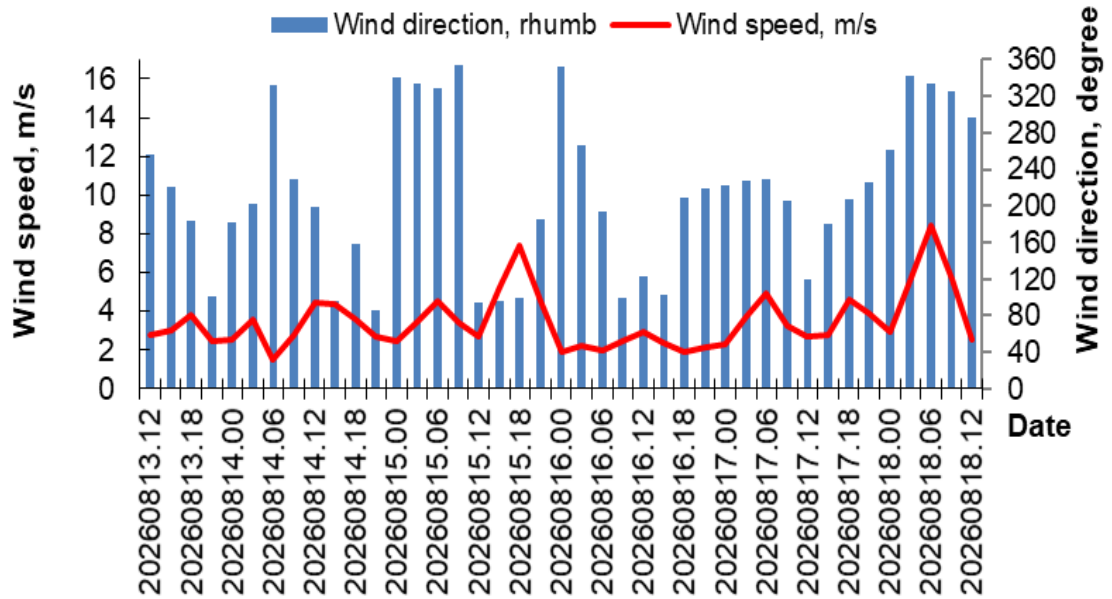


Wave condition in the Aktau

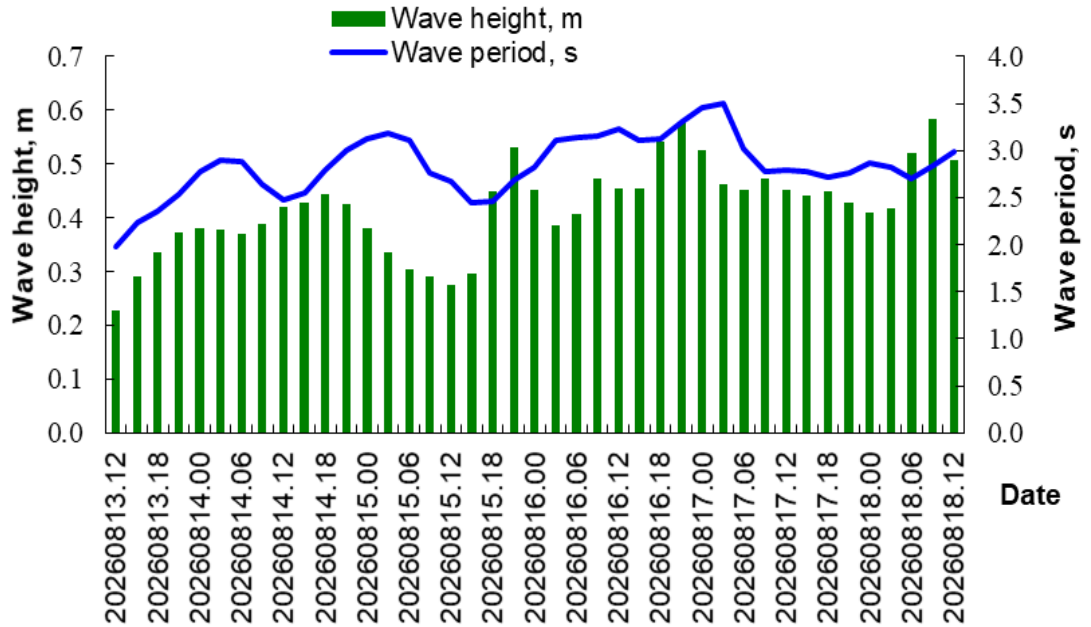


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260813.12	0.36	S	2.2	2	N
20260813.15	0.39	S	2.5	2	SW
20260813.18	0.44	S	2.8	3	S
20260813.21	0.45	S	3.0	3	E
20260814.00	0.45	S	3.1	2	SE
20260814.03	0.43	S	3.1	4	SE
20260814.06	0.41	SW	2.8	2	SE
20260814.09	0.42	SW	2.6	3	SE
20260814.12	0.46	W	2.5	4	SE
20260814.15	0.51	NW	2.6	4	SE
20260814.18	0.58	NW	2.8	5	SE
20260814.21	0.52	NW	3.0	2	SE
20260815.00	0.42	NW	3.1	1	NW
20260815.03	0.35	NW	3.2	3	N
20260815.06	0.32	W	3.0	5	N
20260815.09	0.33	SW	2.7	4	W
20260815.12	0.31	SW	2.5	3	S
20260815.15	0.31	SW	2.4	4	S
20260815.18	0.39	SW	2.5	4	S
20260815.21	0.45	SW	2.7	2	SW
20260816.00	0.41	SW	3.0	1	NE
20260816.03	0.37	SW	3.2	3	NE
20260816.06	0.42	SW	3.1	4	SW
20260816.09	0.46	SW	3.0	3	SW
20260816.12	0.43	SW	3.1	3	SW
20260816.15	0.45	SW	2.8	5	S
20260816.18	0.61	SW	2.9	8	S
20260816.21	0.64	SW	3.1	4	S
20260817.00	0.53	SW	3.2	1	SW
20260817.03	0.44	SW	3.4	3	SW
20260817.06	0.43	SW	3.1	1	S
20260817.09	0.46	SW	3.0	1	S
20260817.12	0.45	SW	3.1	3	NE
20260817.15	0.45	SW	3.0	1	E
20260817.18	0.47	SW	2.9	4	SW
20260817.21	0.45	SW	2.9	3	SW
20260818.00	0.42	SW	3.1	2	SW
20260818.03	0.40	SW	3.2	4	W
20260818.06	0.47	SW	2.9	4	W
20260818.09	0.49	SW	2.9	2	W
20260818.12	0.45	SW	3.1	1	NW

Wind condition in the Peschanyi

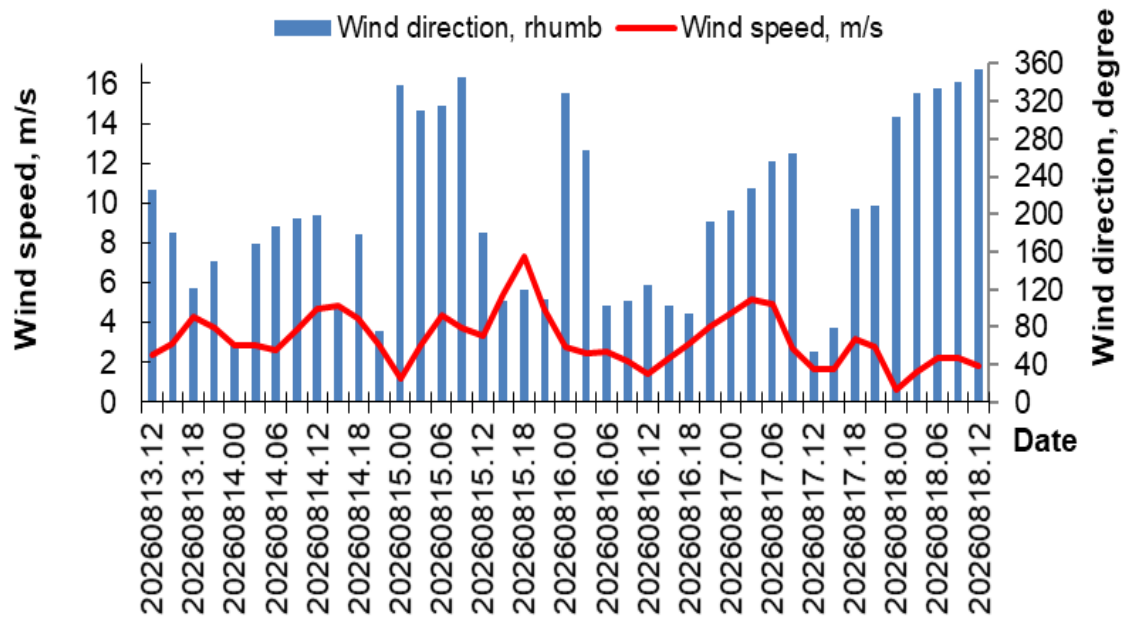


Wave condition in the Peschanyi

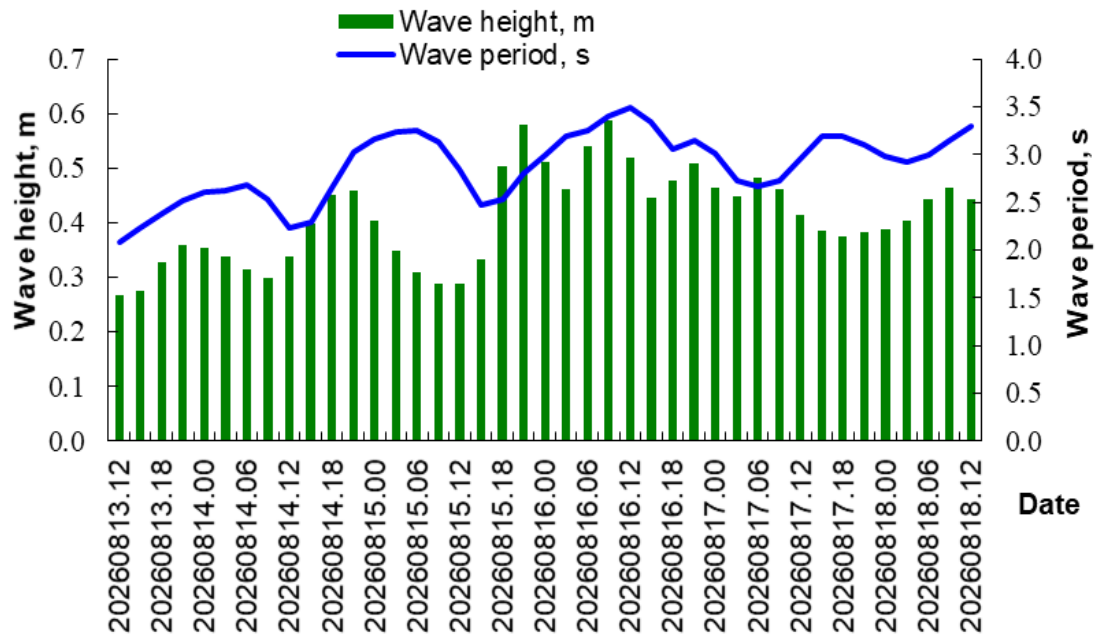


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260813.12	0.23	S	2.0	3	W
20260813.15	0.29	S	2.2	3	SW
20260813.18	0.34	S	2.4	4	S
20260813.21	0.37	S	2.5	2	E
20260814.00	0.38	S	2.8	3	S
20260814.03	0.38	SW	2.9	4	S
20260814.06	0.37	SW	2.9	1	NW
20260814.09	0.39	SW	2.6	3	SW
20260814.12	0.42	SW	2.5	4	S
20260814.15	0.43	W	2.6	4	E
20260814.18	0.44	NW	2.8	4	S
20260814.21	0.43	NW	3.0	3	E
20260815.00	0.38	NW	3.1	2	N
20260815.03	0.34	NW	3.2	3	NW
20260815.06	0.30	NW	3.1	5	NW
20260815.09	0.29	W	2.8	3	N
20260815.12	0.28	W	2.7	3	E
20260815.15	0.30	W	2.5	5	E
20260815.18	0.45	W	2.5	7	E
20260815.21	0.53	W	2.7	5	S
20260816.00	0.45	W	2.8	2	N
20260816.03	0.39	W	3.1	2	W
20260816.06	0.41	SW	3.1	2	S
20260816.09	0.47	SW	3.2	2	E
20260816.12	0.46	SW	3.2	3	SE
20260816.15	0.45	SW	3.1	2	E
20260816.18	0.54	SW	3.1	2	SW
20260816.21	0.58	SW	3.3	2	SW
20260817.00	0.53	SW	3.5	2	SW
20260817.03	0.46	SW	3.5	4	SW
20260817.06	0.45	SW	3.0	5	SW
20260817.09	0.47	SW	2.8	3	SW
20260817.12	0.45	SW	2.8	3	SE
20260817.15	0.44	SW	2.8	3	S
20260817.18	0.45	SW	2.7	5	SW
20260817.21	0.43	SW	2.8	4	SW
20260818.00	0.41	SW	2.9	3	W
20260818.03	0.42	SW	2.8	6	N
20260818.06	0.52	S	2.7	8	NW
20260818.09	0.58	S	2.8	6	NW
20260818.12	0.51	S	3.0	3	NW

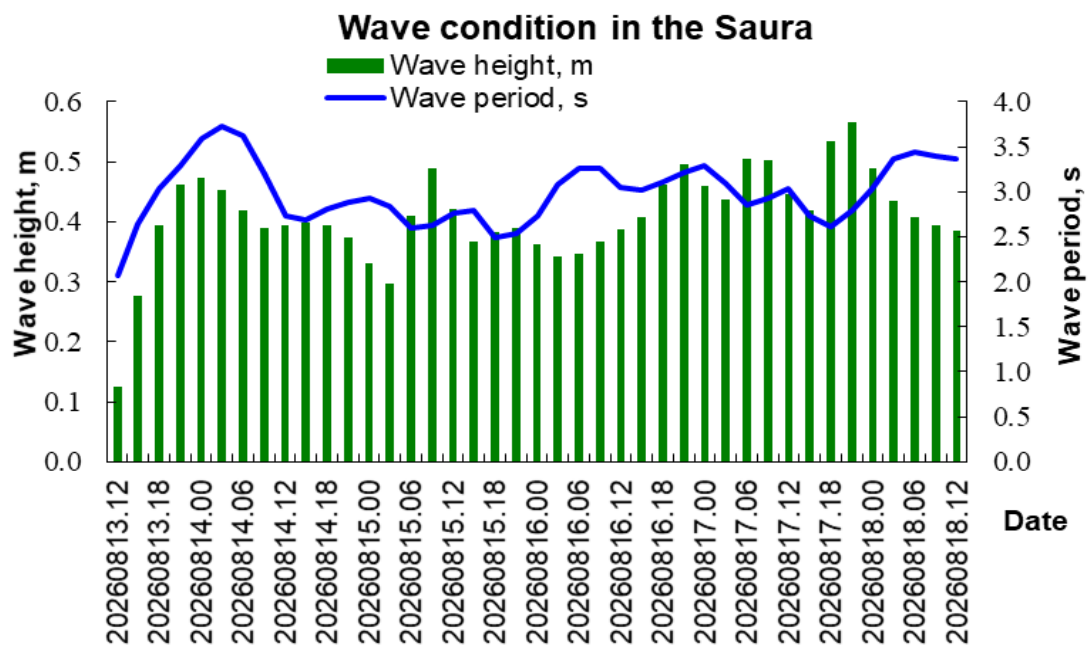
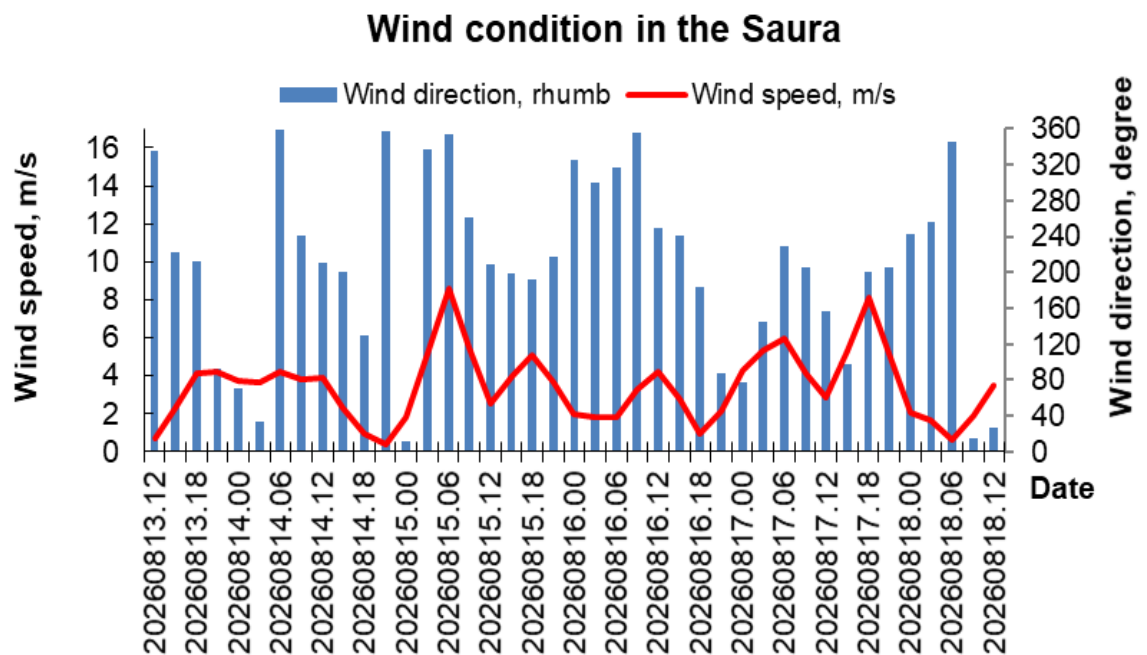
Wind condition in the Fetisovo



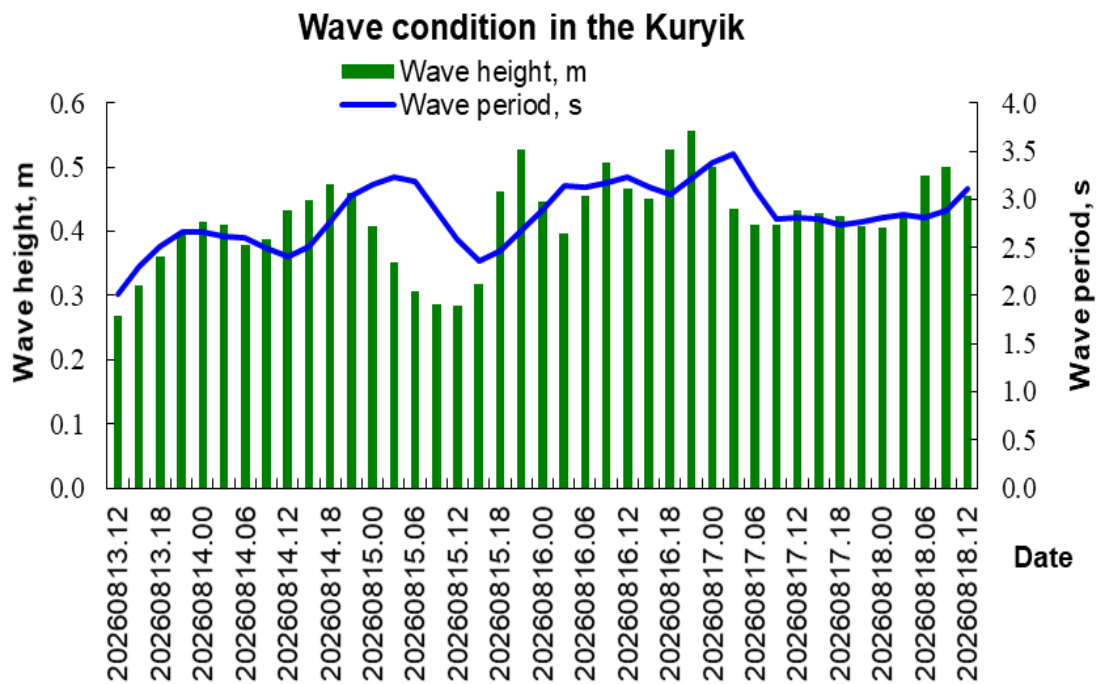
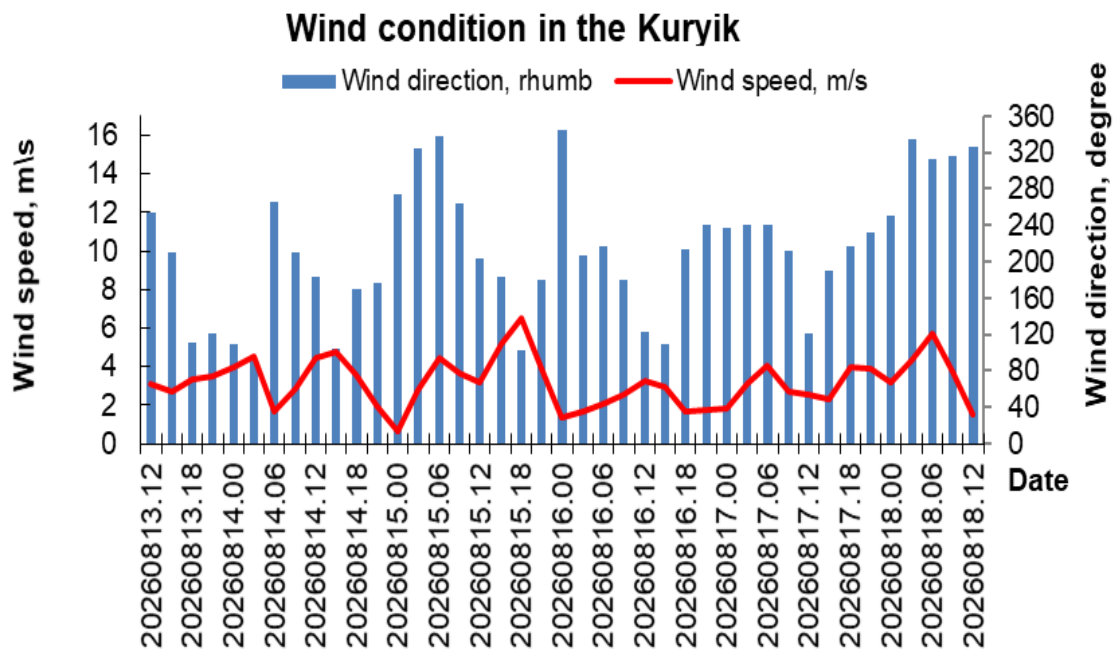
Wave condition in the Fetisovo



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260813.12	0.27	S	2.1	2	SW
20260813.15	0.28	S	2.2	3	S
20260813.18	0.33	S	2.4	4	SE
20260813.21	0.36	SW	2.5	4	SE
20260814.00	0.35	SW	2.6	3	NE
20260814.03	0.34	SW	2.6	3	S
20260814.06	0.31	SW	2.7	3	S
20260814.09	0.30	SW	2.5	4	S
20260814.12	0.34	W	2.2	5	S
20260814.15	0.40	W	2.3	5	E
20260814.18	0.45	NW	2.7	4	S
20260814.21	0.46	NW	3.0	3	E
20260815.00	0.40	NW	3.2	1	NW
20260815.03	0.35	NW	3.2	3	NW
20260815.06	0.31	NW	3.3	4	NW
20260815.09	0.29	NW	3.1	4	N
20260815.12	0.29	NW	2.9	3	S
20260815.15	0.33	W	2.5	5	E
20260815.18	0.50	W	2.5	7	SE
20260815.21	0.58	NW	2.8	5	E
20260816.00	0.51	W	3.0	3	NW
20260816.03	0.46	W	3.2	2	W
20260816.06	0.54	W	3.3	3	E
20260816.09	0.59	SW	3.4	2	E
20260816.12	0.52	SW	3.5	1	SE
20260816.15	0.45	SW	3.3	2	E
20260816.18	0.48	SW	3.1	3	E
20260816.21	0.51	SW	3.2	4	S
20260817.00	0.46	SW	3.0	4	SW
20260817.03	0.45	SW	2.7	5	SW
20260817.06	0.48	SW	2.7	5	W
20260817.09	0.46	SW	2.7	3	W
20260817.12	0.41	SW	2.9	2	NE
20260817.15	0.39	SW	3.2	2	E
20260817.18	0.37	SW	3.2	3	SW
20260817.21	0.38	SW	3.1	3	SW
20260818.00	0.39	SW	3.0	1	NW
20260818.03	0.40	SW	2.9	2	NW
20260818.06	0.44	SW	3.0	2	NW
20260818.09	0.46	SW	3.2	2	N
20260818.12	0.44	S	3.3	2	N



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260813.12	0.13	S	2.1	1	NW
20260813.15	0.28	S	2.6	2	SW
20260813.18	0.39	S	3.0	4	SW
20260813.21	0.46	S	3.3	4	E
20260814.00	0.47	S	3.6	4	E
20260814.03	0.45	S	3.7	4	NE
20260814.06	0.42	S	3.6	4	N
20260814.09	0.39	S	3.2	4	SW
20260814.12	0.39	S	2.7	4	SW
20260814.15	0.40	SW	2.7	2	S
20260814.18	0.39	SW	2.8	1	SE
20260814.21	0.37	W	2.9	0	N
20260815.00	0.33	W	2.9	2	N
20260815.03	0.30	W	2.8	5	NW
20260815.06	0.41	S	2.6	9	N
20260815.09	0.49	S	2.6	6	W
20260815.12	0.42	S	2.8	3	SW
20260815.15	0.37	S	2.8	4	S
20260815.18	0.38	SW	2.5	5	S
20260815.21	0.39	SW	2.5	4	SW
20260816.00	0.36	SW	2.7	2	NW
20260816.03	0.34	SW	3.1	2	NW
20260816.06	0.35	SW	3.3	2	NW
20260816.09	0.37	SW	3.3	3	N
20260816.12	0.39	SW	3.0	4	W
20260816.15	0.41	SW	3.0	3	SW
20260816.18	0.46	SW	3.1	1	S
20260816.21	0.50	SW	3.2	2	E
20260817.00	0.46	SW	3.3	4	E
20260817.03	0.44	SW	3.1	5	SE
20260817.06	0.50	SW	2.9	6	SW
20260817.09	0.50	SW	2.9	4	SW
20260817.12	0.45	SW	3.0	3	SE
20260817.15	0.42	SW	2.7	5	E
20260817.18	0.53	SW	2.6	8	S
20260817.21	0.57	SW	2.8	5	SW
20260818.00	0.49	SW	3.0	2	SW
20260818.03	0.44	SW	3.4	2	W
20260818.06	0.41	SW	3.4	1	N
20260818.09	0.39	SW	3.4	2	N
20260818.12	0.39	SW	3.4	3	NE



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260813.12	0.27	S	2.0	3	W
20260813.15	0.32	S	2.3	3	SW
20260813.18	0.36	S	2.5	3	E
20260813.21	0.40	S	2.7	3	SE
20260814.00	0.41	SW	2.7	4	E
20260814.03	0.41	SW	2.6	5	E
20260814.06	0.38	SW	2.6	2	W
20260814.09	0.39	SW	2.5	3	SW
20260814.12	0.43	W	2.4	4	S
20260814.15	0.45	W	2.5	5	E
20260814.18	0.47	NW	2.8	4	S
20260814.21	0.46	NW	3.0	2	S
20260815.00	0.41	NW	3.2	1	W
20260815.03	0.35	NW	3.2	3	NW
20260815.06	0.31	NW	3.2	4	N
20260815.09	0.29	NW	2.9	4	W
20260815.12	0.28	W	2.6	3	SW
20260815.15	0.32	W	2.4	5	S
20260815.18	0.46	W	2.5	6	E
20260815.21	0.53	W	2.7	4	S
20260816.00	0.45	W	2.9	1	N
20260816.03	0.40	W	3.1	2	SW
20260816.06	0.45	SW	3.1	2	SW
20260816.09	0.51	SW	3.2	3	S
20260816.12	0.47	SW	3.2	3	SE
20260816.15	0.45	SW	3.1	3	E
20260816.18	0.53	SW	3.0	2	SW
20260816.21	0.56	SW	3.2	2	SW
20260817.00	0.50	SW	3.4	2	SW
20260817.03	0.44	SW	3.5	3	SW
20260817.06	0.41	SW	3.1	4	SW
20260817.09	0.41	SW	2.8	3	SW
20260817.12	0.43	SW	2.8	3	SE
20260817.15	0.43	SW	2.8	2	S
20260817.18	0.42	SW	2.7	4	SW
20260817.21	0.41	SW	2.8	4	SW
20260818.00	0.40	SW	2.8	3	W
20260818.03	0.43	SW	2.8	4	NW
20260818.06	0.49	SW	2.8	6	NW
20260818.09	0.50	S	2.9	4	NW
20260818.12	0.45	SW	3.1	2	NW

**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.

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