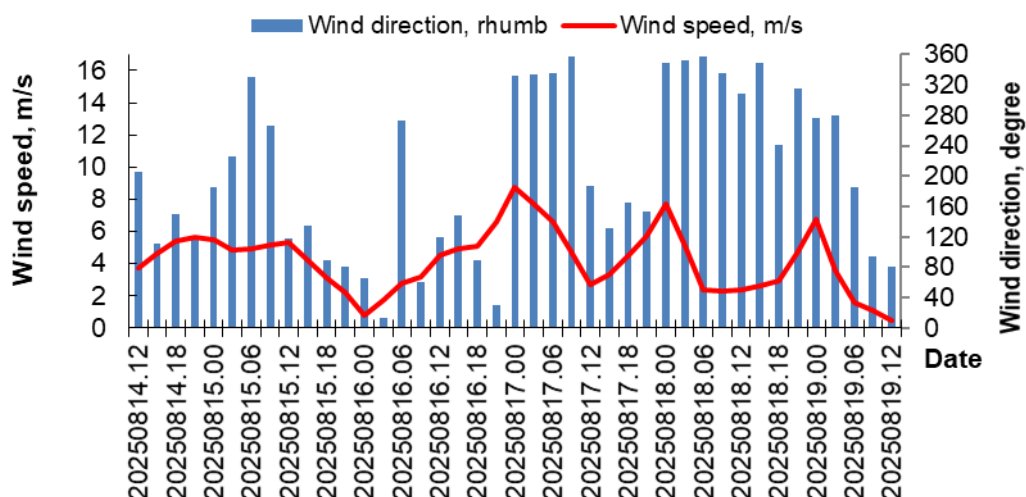




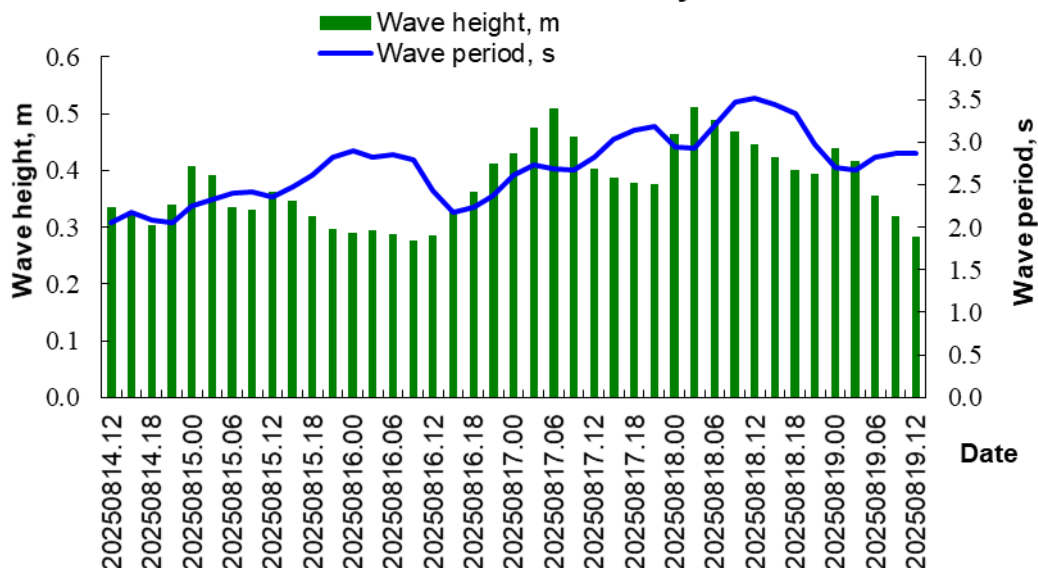
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 14 – 19, 2025.**

Wind condition in the Kulaly

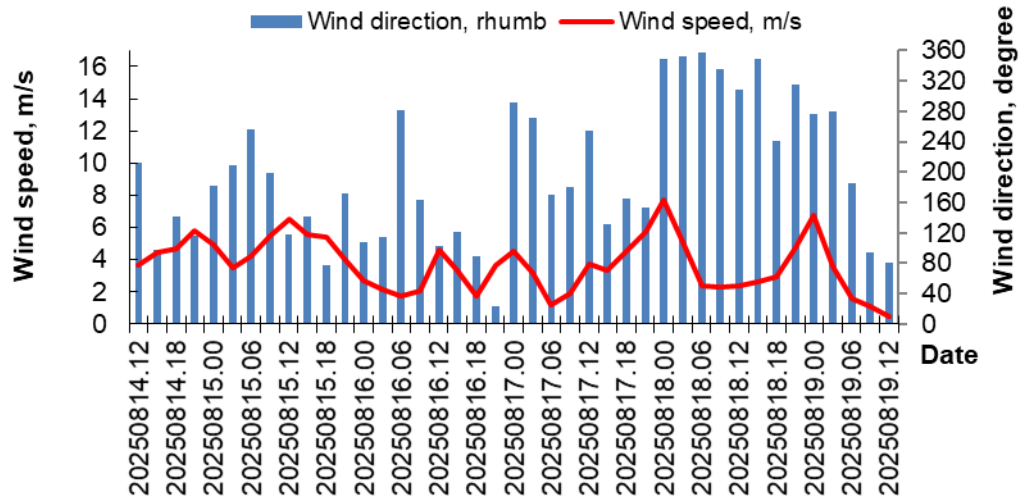


Wave condition in the Kulaly

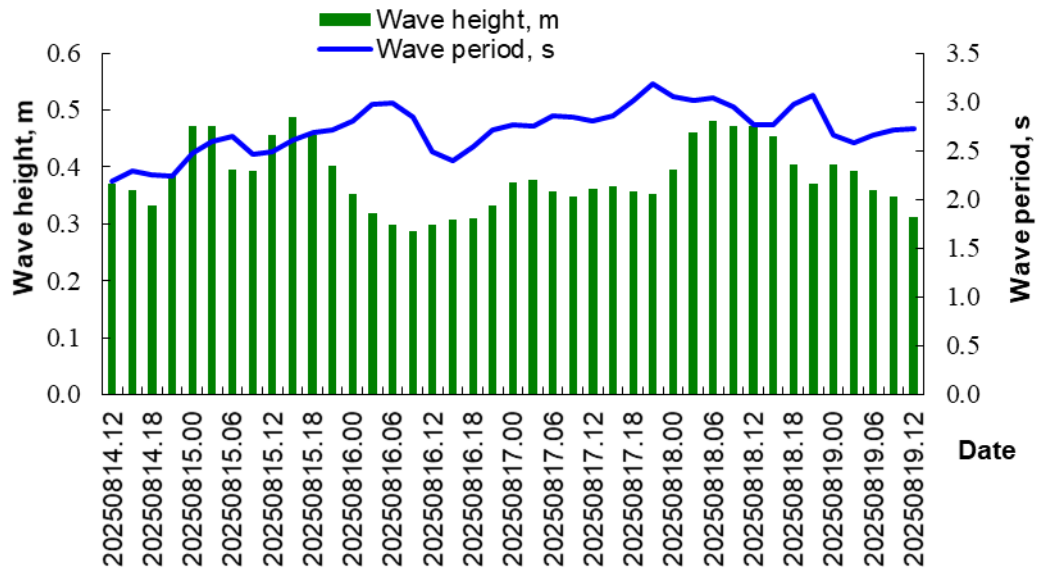


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250814.12	0.34	SW	2.1	4	SW
20250814.15	0.33	SW	2.2	5	E
20250814.18	0.30	W	2.1	5	SE
20250814.21	0.34	W	2.1	6	SE
20250815.00	0.41	W	2.2	5	S
20250815.03	0.39	W	2.3	5	SW
20250815.06	0.34	W	2.4	5	NW
20250815.09	0.33	W	2.4	5	W
20250815.12	0.36	W	2.4	5	SE
20250815.15	0.35	W	2.5	4	SE
20250815.18	0.32	W	2.6	3	E
20250815.21	0.30	SW	2.8	2	E
20250816.00	0.29	SW	2.9	1	NE
20250816.03	0.29	SW	2.8	2	N
20250816.06	0.29	SW	2.9	3	W
20250816.09	0.28	SW	2.8	3	NE
20250816.12	0.28	W	2.4	5	SE
20250816.15	0.33	NW	2.2	5	SE
20250816.18	0.36	NW	2.2	5	E
20250816.21	0.41	N	2.4	7	NE
20250817.00	0.43	NE	2.6	9	NW
20250817.03	0.48	E	2.7	8	NW
20250817.06	0.51	SE	2.7	7	NW
20250817.09	0.46	SE	2.7	5	N
20250817.12	0.40	S	2.8	3	S
20250817.15	0.39	S	3.0	3	SE
20250817.18	0.38	S	3.1	5	S
20250817.21	0.38	S	3.2	6	SE
20250818.00	0.46	S	2.9	8	N
20250818.03	0.51	S	2.9	5	N
20250818.06	0.49	S	3.2	2	N
20250818.09	0.47	S	3.5	2	NW
20250818.12	0.45	S	3.5	2	NW
20250818.15	0.42	S	3.4	3	N
20250818.18	0.40	S	3.3	3	SW
20250818.21	0.39	S	3.0	5	NW
20250819.00	0.44	SE	2.7	7	W
20250819.03	0.42	SE	2.7	4	W
20250819.06	0.36	SE	2.8	2	S
20250819.09	0.32	S	2.9	1	E
20250819.12	0.28	S	2.9	0	E

Wind condition in the Fort-Shevchenko

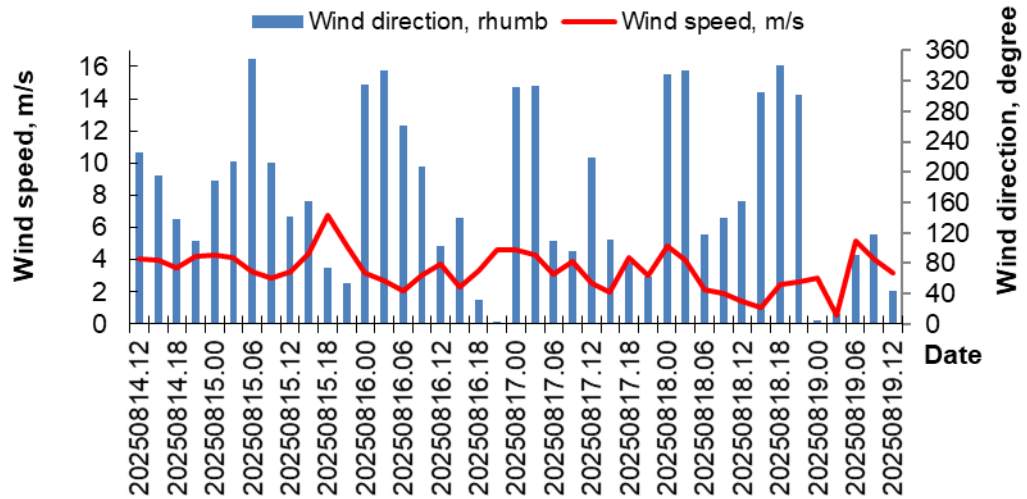


Wave condition in the Fort-Shevchenko

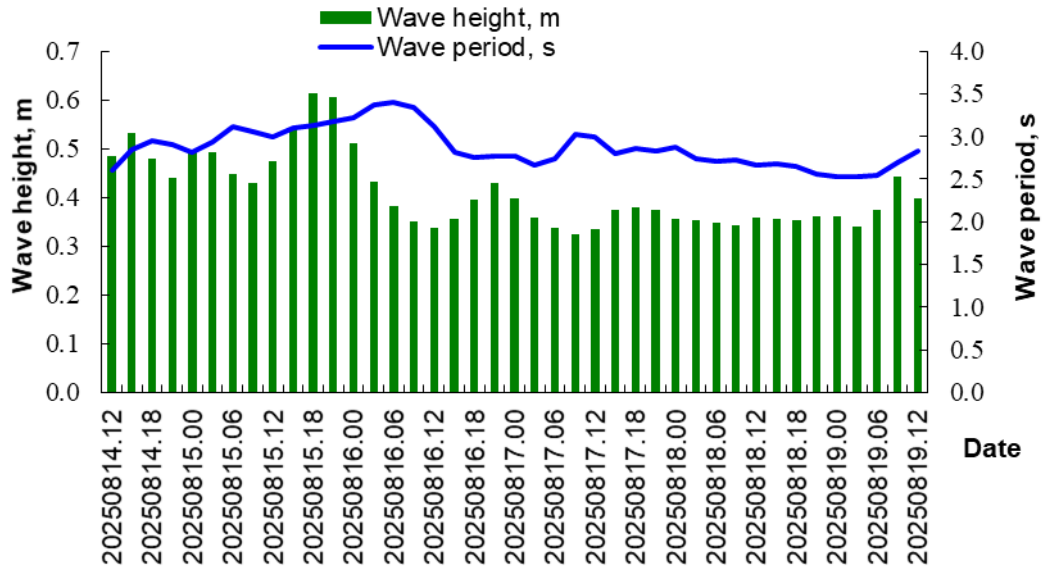


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250814.12	0.37	SW	2.2	4	SW
20250814.15	0.36	SW	2.3	4	E
20250814.18	0.33	W	2.2	5	SE
20250814.21	0.38	W	2.2	6	SE
20250815.00	0.47	W	2.5	5	S
20250815.03	0.47	W	2.6	3	SW
20250815.06	0.40	W	2.6	4	W
20250815.09	0.39	W	2.5	6	S
20250815.12	0.46	W	2.5	7	SE
20250815.15	0.49	W	2.6	6	SE
20250815.18	0.46	NW	2.7	5	E
20250815.21	0.40	NW	2.7	4	S
20250816.00	0.35	NW	2.8	3	E
20250816.03	0.32	W	3.0	2	SE
20250816.06	0.30	W	3.0	2	W
20250816.09	0.29	SW	2.8	2	S
20250816.12	0.30	SW	2.5	5	E
20250816.15	0.31	W	2.4	3	SE
20250816.18	0.31	W	2.5	2	E
20250816.21	0.33	N	2.7	4	NE
20250817.00	0.37	NE	2.8	5	W
20250817.03	0.38	E	2.8	3	W
20250817.06	0.36	SE	2.9	1	S
20250817.09	0.35	SE	2.8	2	S
20250817.12	0.36	S	2.8	4	W
20250817.15	0.37	S	2.9	3	SE
20250817.18	0.36	S	3.0	5	S
20250817.21	0.35	S	3.2	6	SE
20250818.00	0.39	S	3.1	8	N
20250818.03	0.46	S	3.0	5	N
20250818.06	0.48	S	3.0	2	N
20250818.09	0.47	S	2.9	2	NW
20250818.12	0.47	S	2.8	2	NW
20250818.15	0.45	SE	2.8	3	N
20250818.18	0.40	S	3.0	3	SW
20250818.21	0.37	S	3.1	5	NW
20250819.00	0.40	SE	2.7	7	W
20250819.03	0.39	SE	2.6	4	W
20250819.06	0.36	S	2.7	2	S
20250819.09	0.35	SW	2.7	1	E
20250819.12	0.31	SW	2.7	0	E

Wind condition in the Aktau

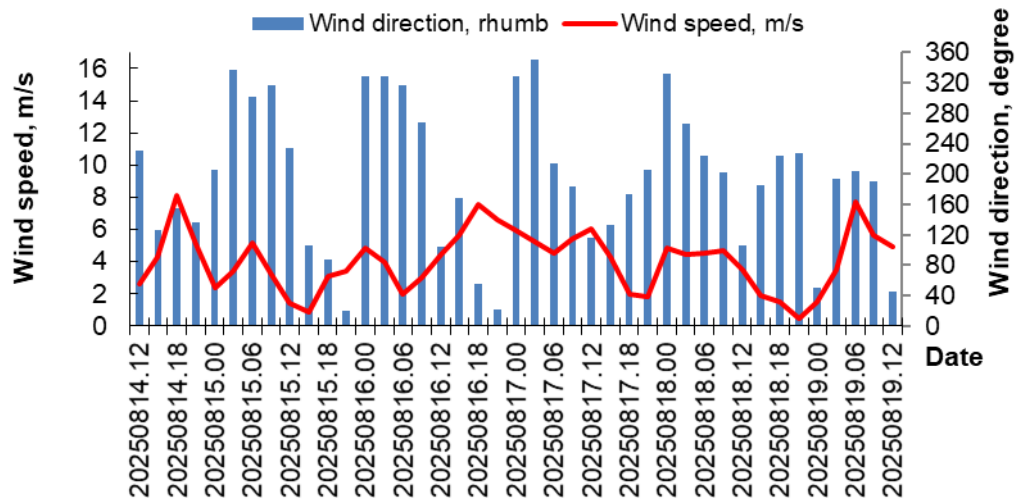


Wave condition in the Aktau

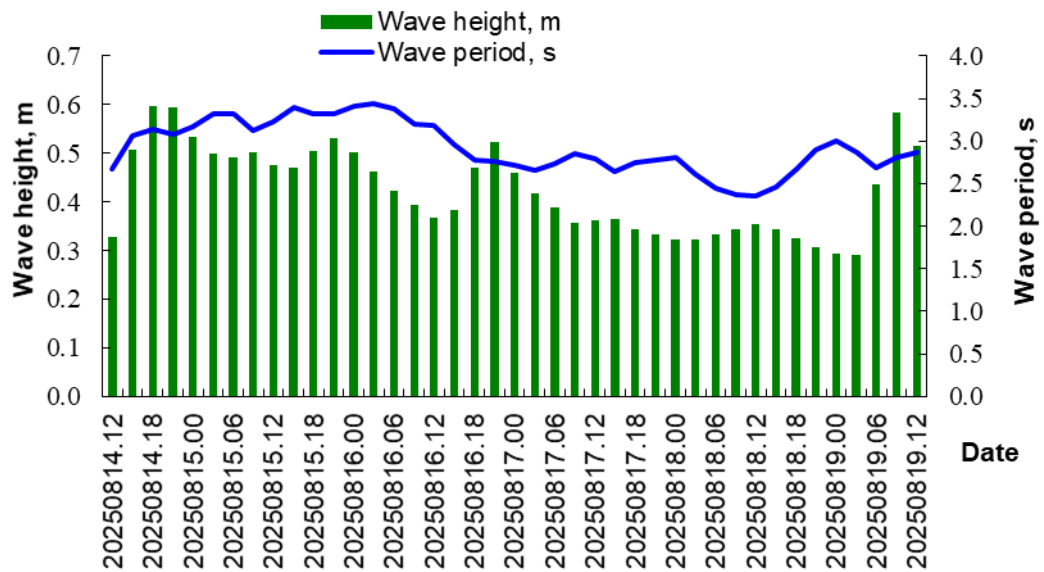


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250814.12	0.49	SW	2.6	4	SW
20250814.15	0.53	SW	2.8	4	S
20250814.18	0.48	SW	3.0	3	SE
20250814.21	0.44	SW	2.9	4	E
20250815.00	0.49	W	2.8	4	S
20250815.03	0.49	W	2.9	4	SW
20250815.06	0.45	W	3.1	3	N
20250815.09	0.43	SW	3.1	3	SW
20250815.12	0.47	W	3.0	3	SE
20250815.15	0.54	W	3.1	4	S
20250815.18	0.61	NW	3.1	7	E
20250815.21	0.61	NW	3.2	5	NE
20250816.00	0.51	NW	3.2	3	NW
20250816.03	0.43	NW	3.4	3	NW
20250816.06	0.38	NW	3.4	2	W
20250816.09	0.35	NW	3.3	3	SW
20250816.12	0.34	NW	3.1	4	E
20250816.15	0.36	NW	2.8	2	SE
20250816.18	0.40	N	2.8	3	NE
20250816.21	0.43	NE	2.8	5	N
20250817.00	0.40	NE	2.8	5	NW
20250817.03	0.36	E	2.7	4	NW
20250817.06	0.34	E	2.7	3	E
20250817.09	0.32	E	3.0	4	E
20250817.12	0.34	SE	3.0	3	SW
20250817.15	0.38	S	2.8	2	E
20250817.18	0.38	S	2.9	4	E
20250817.21	0.37	S	2.8	3	NE
20250818.00	0.36	S	2.9	5	NW
20250818.03	0.35	S	2.7	4	NW
20250818.06	0.35	S	2.7	2	SE
20250818.09	0.34	SW	2.7	2	SE
20250818.12	0.36	SW	2.7	1	S
20250818.15	0.36	SW	2.7	1	NW
20250818.18	0.35	SW	2.7	2	N
20250818.21	0.36	S	2.6	3	NW
20250819.00	0.36	S	2.5	3	N
20250819.03	0.34	S	2.5	1	N
20250819.06	0.37	SW	2.5	5	E
20250819.09	0.44	W	2.7	4	SE
20250819.12	0.40	W	2.8	3	NE

Wind condition in the Peschanyi

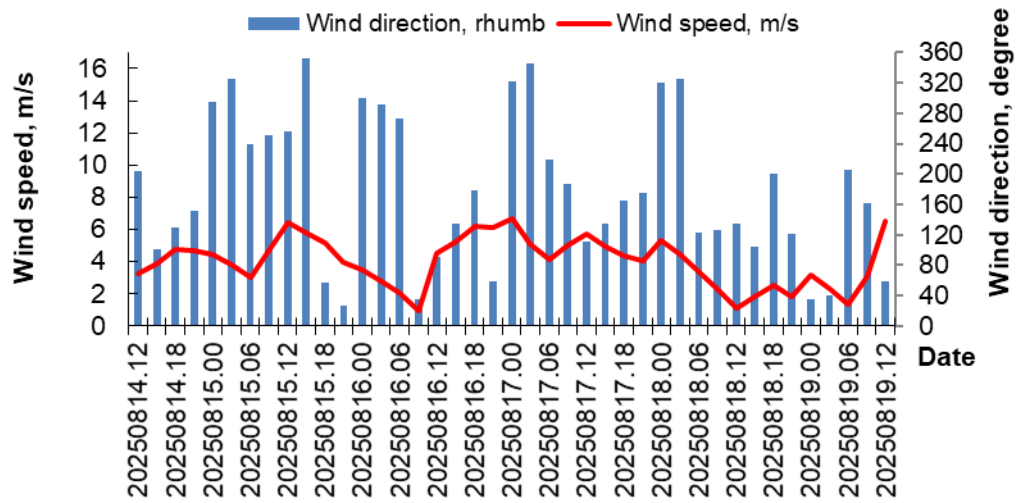


Wave condition in the Peschanyi

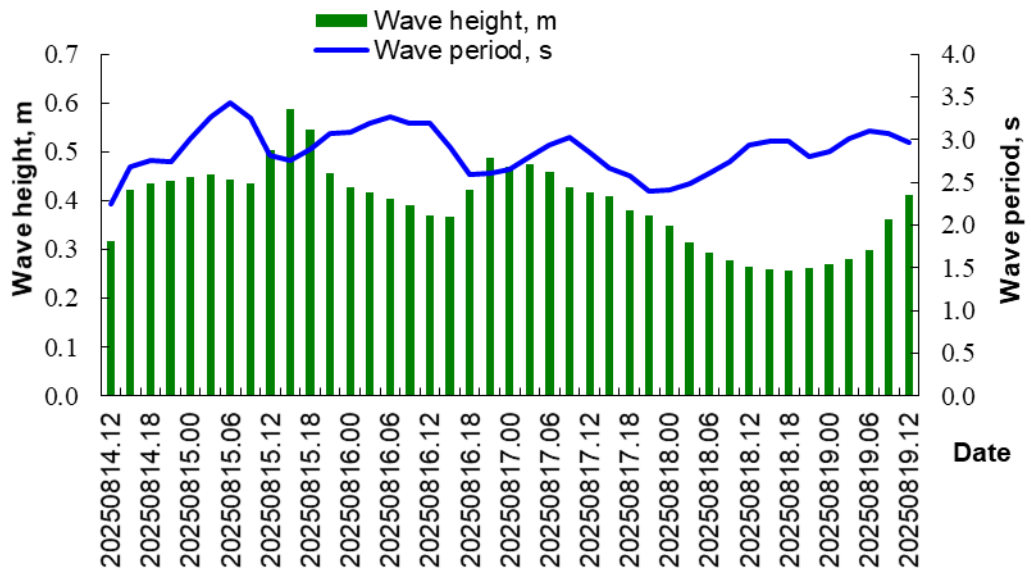


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250814.12	0.33	SW	2.7	3	SW
20250814.15	0.51	SW	3.1	4	SE
20250814.18	0.60	SW	3.1	8	SE
20250814.21	0.60	SW	3.1	5	SE
20250815.00	0.53	SW	3.2	2	SW
20250815.03	0.50	SW	3.3	3	NW
20250815.06	0.49	SW	3.3	5	NW
20250815.09	0.50	S	3.1	3	NW
20250815.12	0.48	S	3.2	1	SW
20250815.15	0.47	SW	3.4	1	E
20250815.18	0.50	W	3.3	3	E
20250815.21	0.53	NW	3.3	3	N
20250816.00	0.50	NW	3.4	5	NW
20250816.03	0.46	NW	3.4	4	NW
20250816.06	0.42	NW	3.4	2	NW
20250816.09	0.39	W	3.2	3	W
20250816.12	0.37	S	3.2	4	E
20250816.15	0.38	NW	3.0	6	S
20250816.18	0.47	N	2.8	8	NE
20250816.21	0.52	NE	2.8	7	NE
20250817.00	0.46	NE	2.7	6	NW
20250817.03	0.42	E	2.7	5	N
20250817.06	0.39	E	2.7	5	SW
20250817.09	0.36	SE	2.9	5	S
20250817.12	0.36	SE	2.8	6	SE
20250817.15	0.37	S	2.6	4	SE
20250817.18	0.34	S	2.8	2	S
20250817.21	0.33	S	2.8	2	SW
20250818.00	0.32	S	2.8	5	NW
20250818.03	0.32	S	2.6	4	W
20250818.06	0.33	SW	2.4	5	SW
20250818.09	0.34	SW	2.4	5	S
20250818.12	0.35	SW	2.4	4	E
20250818.15	0.34	SW	2.5	2	S
20250818.18	0.32	SW	2.7	2	SW
20250818.21	0.31	SW	2.9	0	SW
20250819.00	0.29	SW	3.0	2	NE
20250819.03	0.29	SW	2.9	3	S
20250819.06	0.44	SW	2.7	8	SW
20250819.09	0.58	W	2.8	6	S
20250819.12	0.51	W	2.9	5	NE

Wind condition in the Fetisovo

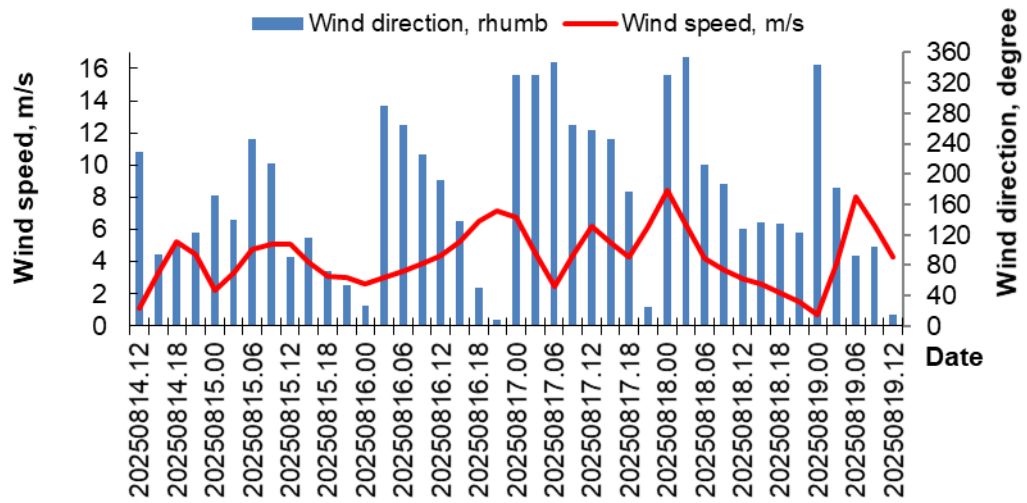


Wave condition in the Fetisovo

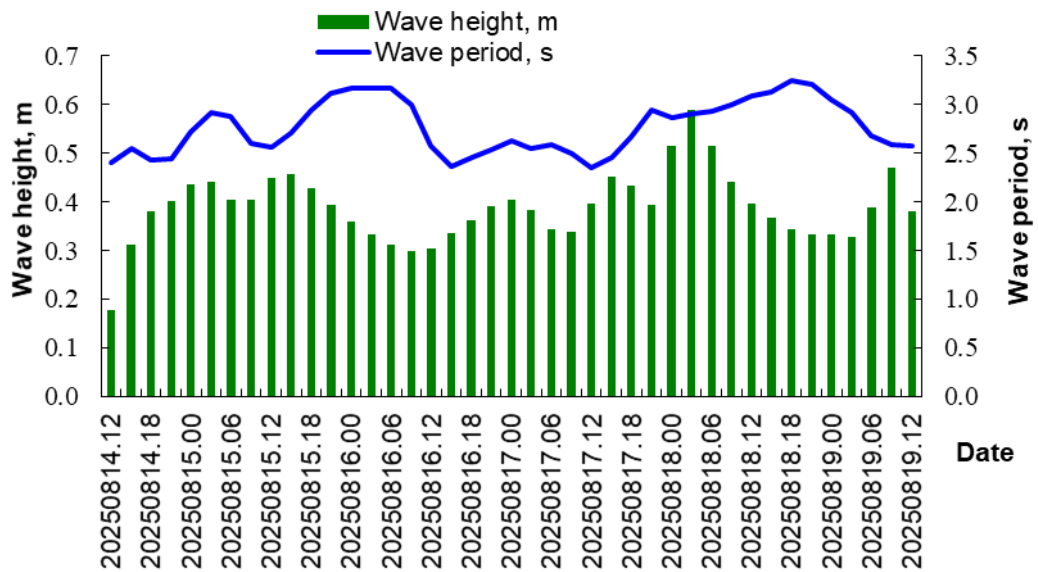


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250814.12	0.32	SW	2.2	3	SW
20250814.15	0.42	SW	2.7	4	E
20250814.18	0.44	SW	2.8	5	SE
20250814.21	0.44	W	2.7	5	SE
20250815.00	0.45	W	3.0	4	NW
20250815.03	0.45	NW	3.3	4	NW
20250815.06	0.44	NW	3.4	3	SW
20250815.09	0.44	W	3.3	5	W
20250815.12	0.50	SW	2.8	6	W
20250815.15	0.59	S	2.8	6	N
20250815.18	0.55	S	2.9	5	NE
20250815.21	0.46	S	3.1	4	NE
20250816.00	0.43	SW	3.1	3	NW
20250816.03	0.42	W	3.2	3	W
20250816.06	0.40	W	3.3	2	W
20250816.09	0.39	NW	3.2	1	NE
20250816.12	0.37	NW	3.2	4	E
20250816.15	0.37	NW	2.9	5	SE
20250816.18	0.42	NW	2.6	6	S
20250816.21	0.49	N	2.6	6	NE
20250817.00	0.47	N	2.7	7	NW
20250817.03	0.47	E	2.8	5	N
20250817.06	0.46	SE	2.9	4	SW
20250817.09	0.43	SE	3.0	5	S
20250817.12	0.42	S	2.9	6	E
20250817.15	0.41	SW	2.7	5	SE
20250817.18	0.38	W	2.6	4	S
20250817.21	0.37	NW	2.4	4	S
20250818.00	0.35	NW	2.4	5	NW
20250818.03	0.32	W	2.5	4	NW
20250818.06	0.29	S	2.6	3	SE
20250818.09	0.28	S	2.7	2	SE
20250818.12	0.27	SW	2.9	1	SE
20250818.15	0.26	SW	3.0	2	E
20250818.18	0.26	SW	3.0	3	S
20250818.21	0.26	SW	2.8	2	SE
20250819.00	0.27	SW	2.9	3	NE
20250819.03	0.28	SW	3.0	2	NE
20250819.06	0.30	SW	3.1	1	SW
20250819.09	0.36	W	3.1	3	S
20250819.12	0.41	W	3.0	7	NE

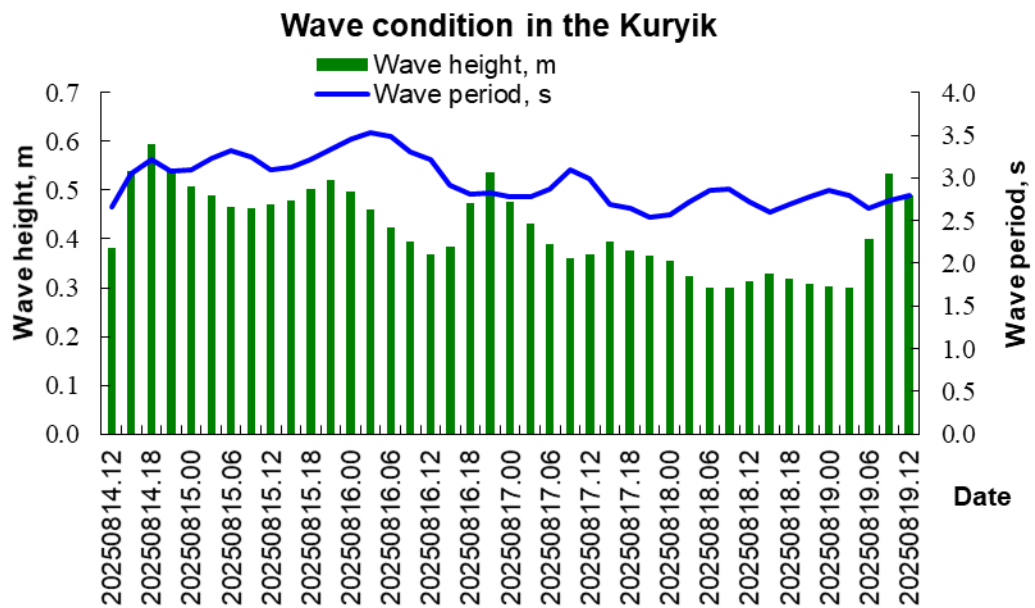
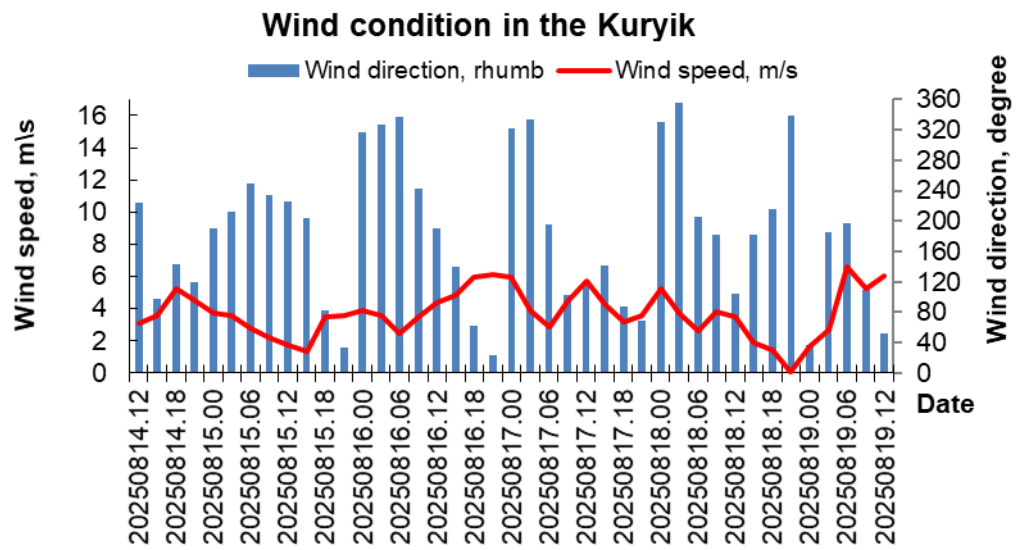
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250814.12	0.18	SW	2.4	1	SW
20250814.15	0.31	SW	2.5	3	E
20250814.18	0.38	W	2.4	5	E
20250814.21	0.40	W	2.4	4	SE
20250815.00	0.44	W	2.7	2	S
20250815.03	0.44	W	2.9	3	SE
20250815.06	0.40	W	2.9	5	SW
20250815.09	0.41	W	2.6	5	SW
20250815.12	0.45	W	2.6	5	E
20250815.15	0.46	W	2.7	4	SE
20250815.18	0.43	NW	2.9	3	E
20250815.21	0.39	NW	3.1	3	NE
20250816.00	0.36	NW	3.2	3	NE
20250816.03	0.33	NW	3.2	3	W
20250816.06	0.31	NW	3.2	3	W
20250816.09	0.30	W	3.0	4	SW
20250816.12	0.31	SW	2.6	4	S
20250816.15	0.34	W	2.4	5	SE
20250816.18	0.36	NW	2.5	7	NE
20250816.21	0.39	NE	2.5	7	N
20250817.00	0.40	E	2.6	7	NW
20250817.03	0.38	E	2.5	4	NW
20250817.06	0.34	E	2.6	2	N
20250817.09	0.34	SE	2.5	4	W
20250817.12	0.40	S	2.4	6	W
20250817.15	0.45	S	2.5	5	SW
20250817.18	0.43	S	2.7	4	S
20250817.21	0.39	S	2.9	6	NE
20250818.00	0.51	SE	2.9	8	NW
20250818.03	0.59	S	2.9	6	N
20250818.06	0.52	S	2.9	4	SW
20250818.09	0.44	S	3.0	4	S
20250818.12	0.40	SW	3.1	3	SE
20250818.15	0.37	SW	3.1	3	SE
20250818.18	0.34	SW	3.3	2	SE
20250818.21	0.33	SW	3.2	2	SE
20250819.00	0.33	SW	3.1	1	N
20250819.03	0.33	S	2.9	4	S
20250819.06	0.39	SW	2.7	8	E
20250819.09	0.47	W	2.6	6	E
20250819.12	0.38	W	2.6	4	N



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250814.12	0.38	SW	2.7	3	SW
20250814.15	0.54	SW	3.1	4	E
20250814.18	0.59	SW	3.2	5	SE
20250814.21	0.55	SW	3.1	5	SE
20250815.00	0.51	SW	3.1	4	S
20250815.03	0.49	W	3.2	4	SW
20250815.06	0.47	SW	3.3	3	W
20250815.09	0.46	SW	3.2	2	SW
20250815.12	0.47	S	3.1	2	SW
20250815.15	0.48	SW	3.1	1	SW
20250815.18	0.50	W	3.2	3	E
20250815.21	0.52	NW	3.3	4	NE
20250816.00	0.50	NW	3.5	4	NW
20250816.03	0.46	NW	3.5	4	NW
20250816.06	0.42	NW	3.5	2	NW
20250816.09	0.40	NW	3.3	4	SW
20250816.12	0.37	W	3.2	4	S
20250816.15	0.38	NW	2.9	5	SE
20250816.18	0.47	N	2.8	6	NE
20250816.21	0.54	N	2.8	6	NE
20250817.00	0.48	NE	2.8	6	NW
20250817.03	0.43	E	2.8	4	NW
20250817.06	0.39	E	2.9	3	S
20250817.09	0.36	E	3.1	4	E
20250817.12	0.37	SE	3.0	6	SE
20250817.15	0.40	S	2.7	4	SE
20250817.18	0.38	SW	2.6	3	E
20250817.21	0.37	SW	2.5	4	E
20250818.00	0.35	S	2.6	5	NW
20250818.03	0.32	S	2.7	4	N
20250818.06	0.30	SW	2.9	3	SW
20250818.09	0.30	SW	2.9	4	S
20250818.12	0.31	SW	2.7	4	E
20250818.15	0.33	SW	2.6	2	S
20250818.18	0.32	SW	2.7	1	SW
20250818.21	0.31	SW	2.8	0	N
20250819.00	0.30	SW	2.8	2	NE
20250819.03	0.30	SW	2.8	3	S
20250819.06	0.40	SW	2.6	7	S
20250819.09	0.53	W	2.7	5	E
20250819.12	0.49	W	2.8	6	NE

**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

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