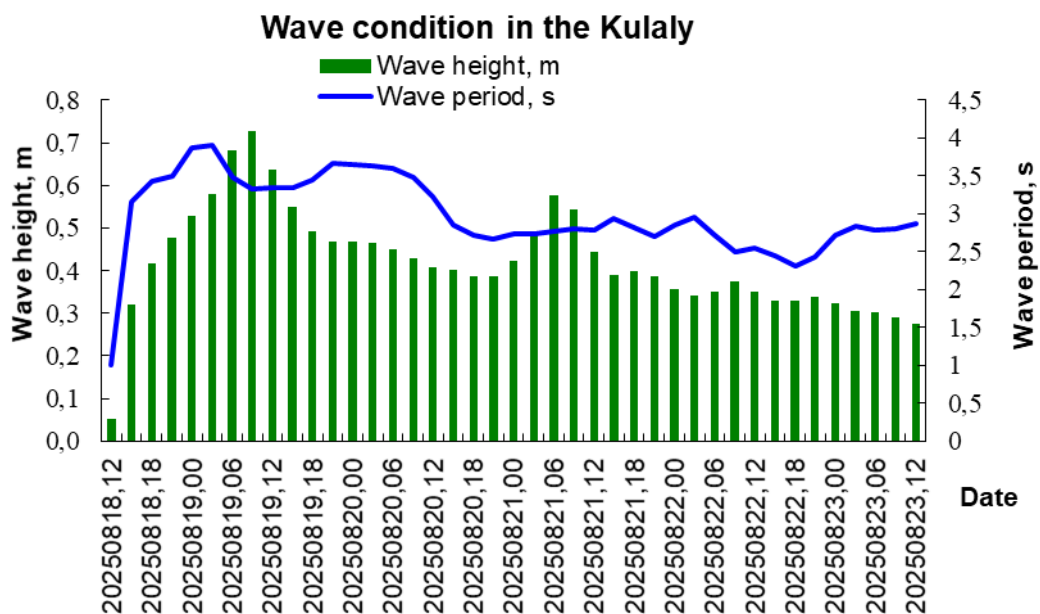
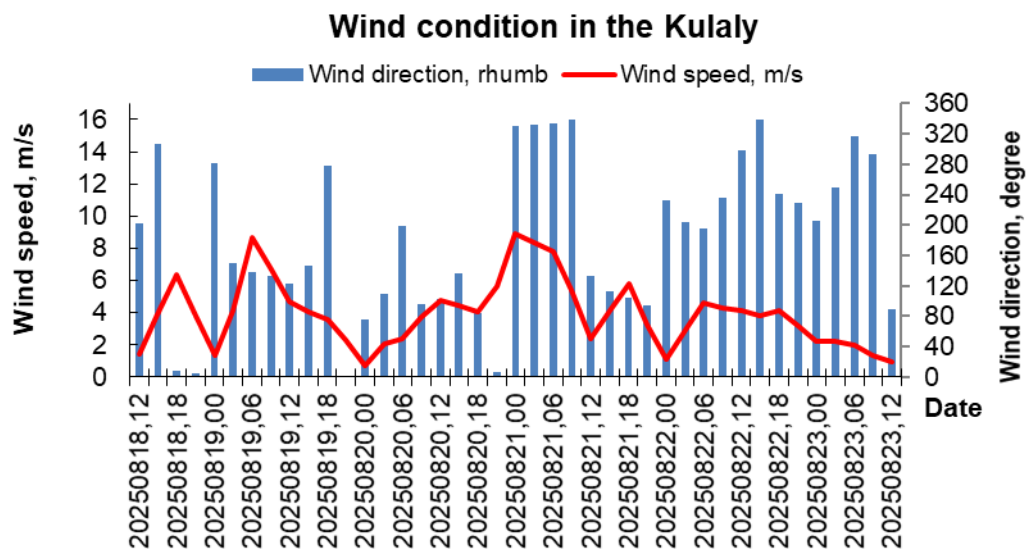




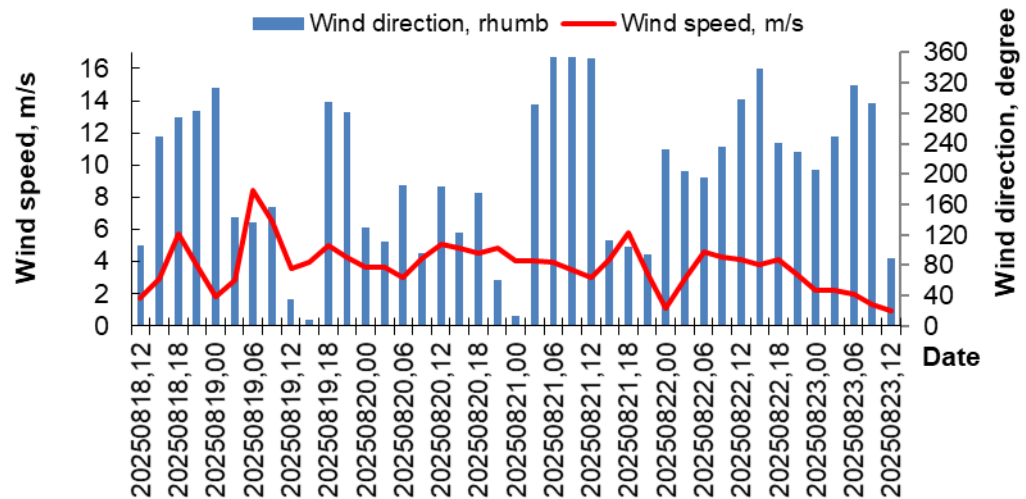
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 18 – 23, 2025.**

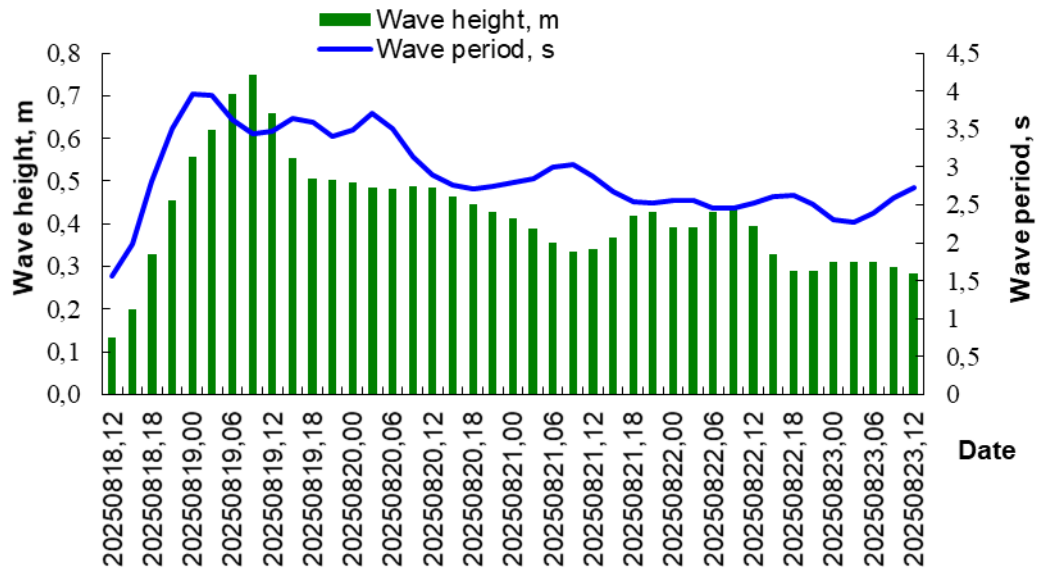


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250818.12	0.05	SW	1.0	1	SW
20250818.15	0.32	NW	3.2	4	NW
20250818.18	0.42	NW	3.4	6	N
20250818.21	0.48	N	3.5	4	N
20250819.00	0.53	N	3.9	1	W
20250819.03	0.58	N	3.9	4	SE
20250819.06	0.68	N	3.5	9	SE
20250819.09	0.73	N	3.3	7	SE
20250819.12	0.64	N	3.3	5	SE
20250819.15	0.55	N	3.3	4	SE
20250819.18	0.49	N	3.4	4	W
20250819.21	0.47	N	3.7	2	N
20250820.00	0.47	N	3.7	1	E
20250820.03	0.46	N	3.6	2	E
20250820.06	0.45	N	3.6	2	S
20250820.09	0.43	NE	3.5	4	E
20250820.12	0.41	NE	3.2	5	E
20250820.15	0.40	N	2.8	4	SE
20250820.18	0.39	N	2.7	4	E
20250820.21	0.39	NE	2.7	6	N
20250821.00	0.42	NE	2.7	9	NW
20250821.03	0.49	E	2.7	8	NW
20250821.06	0.58	SE	2.8	8	NW
20250821.09	0.54	SE	2.8	5	N
20250821.12	0.44	SE	2.8	2	SE
20250821.15	0.39	SE	2.9	4	E
20250821.18	0.40	S	2.8	6	E
20250821.21	0.39	SW	2.7	3	E
20250822.00	0.36	S	2.8	1	SW
20250822.03	0.34	S	3.0	3	SW
20250822.06	0.35	S	2.7	5	S
20250822.09	0.37	SW	2.5	4	SW
20250822.12	0.35	S	2.5	4	NW
20250822.15	0.33	S	2.5	4	N
20250822.18	0.33	S	2.3	4	SW
20250822.21	0.34	SW	2.4	3	SW
20250823.00	0.32	SW	2.7	2	SW
20250823.03	0.31	SW	2.8	2	W
20250823.06	0.30	SW	2.8	2	NW
20250823.09	0.29	SW	2.8	1	NW
20250823.12	0.28	SW	2.9	1	E

Wind condition in the Fort-Shevchenko

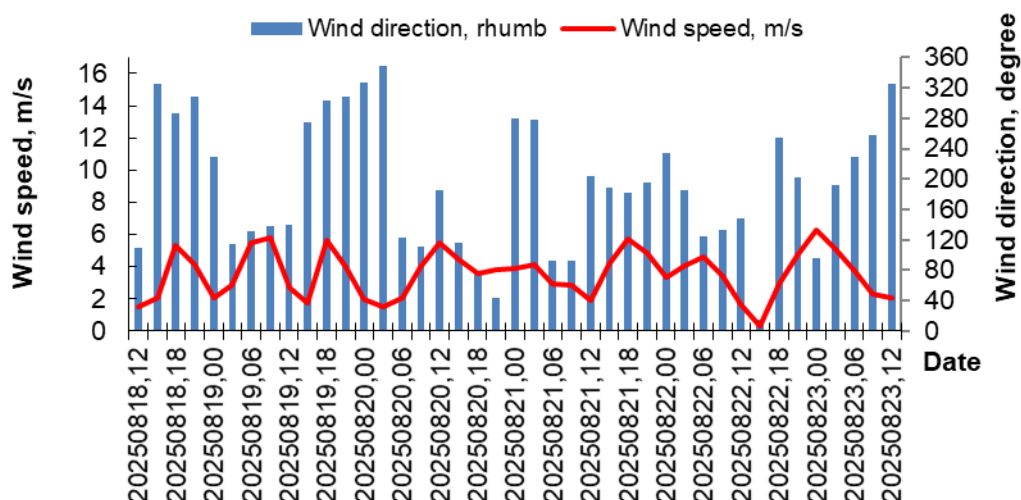


Wave condition in the Fort-Shevchenko

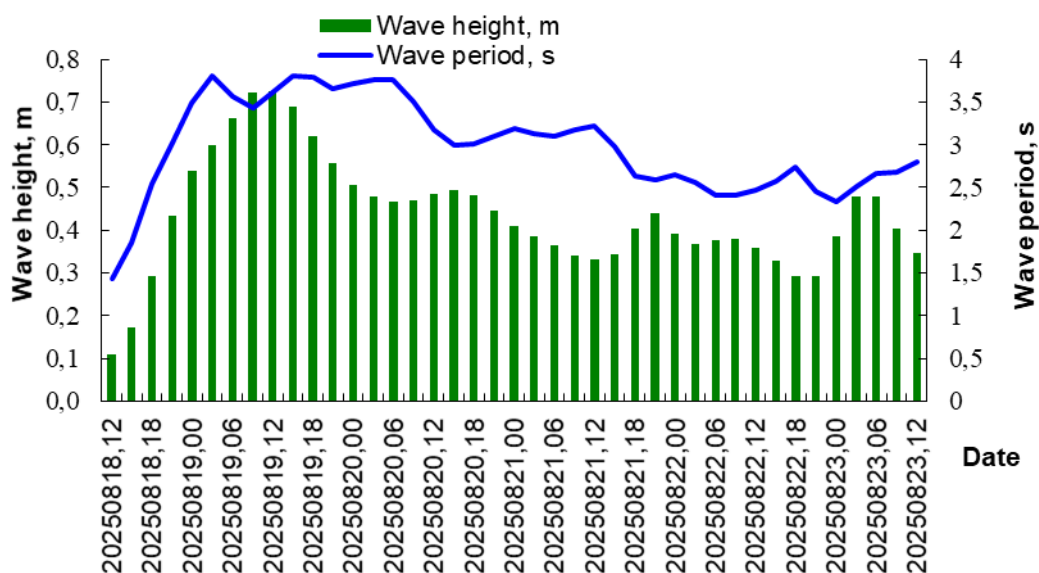


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250818.12	0.13	NW	1.6	2	E
20250818.15	0.20	NW	2.0	3	W
20250818.18	0.33	N	2.8	6	W
20250818.21	0.46	N	3.5	4	W
20250819.00	0.56	N	4.0	2	NW
20250819.03	0.62	N	4.0	3	SE
20250819.06	0.70	N	3.6	8	SE
20250819.09	0.75	N	3.4	6	SE
20250819.12	0.66	N	3.5	4	NE
20250819.15	0.55	N	3.6	4	N
20250819.18	0.51	N	3.6	5	NW
20250819.21	0.50	N	3.4	4	W
20250820.00	0.50	N	3.5	4	SE
20250820.03	0.48	N	3.7	4	E
20250820.06	0.48	N	3.5	3	S
20250820.09	0.49	N	3.1	4	E
20250820.12	0.49	N	2.9	5	S
20250820.15	0.46	N	2.8	5	SE
20250820.18	0.45	N	2.7	5	S
20250820.21	0.43	N	2.8	5	NE
20250821.00	0.41	N	2.8	4	N
20250821.03	0.39	N	2.9	4	W
20250821.06	0.35	NE	3.0	4	N
20250821.09	0.33	NE	3.0	4	N
20250821.12	0.34	NE	2.9	3	N
20250821.15	0.37	S	2.7	4	E
20250821.18	0.42	SW	2.5	6	E
20250821.21	0.43	SW	2.5	3	E
20250822.00	0.39	SW	2.6	1	SW
20250822.03	0.39	SW	2.6	3	SW
20250822.06	0.43	SW	2.5	5	S
20250822.09	0.44	W	2.5	4	SW
20250822.12	0.40	W	2.5	4	NW
20250822.15	0.33	W	2.6	4	N
20250822.18	0.29	W	2.6	4	SW
20250822.21	0.29	W	2.5	3	SW
20250823.00	0.31	W	2.3	2	SW
20250823.03	0.31	W	2.3	2	W
20250823.06	0.31	W	2.4	2	NW
20250823.09	0.30	W	2.6	1	NW
20250823.12	0.28	W	2.7	1	E

Wind condition in the Aktau

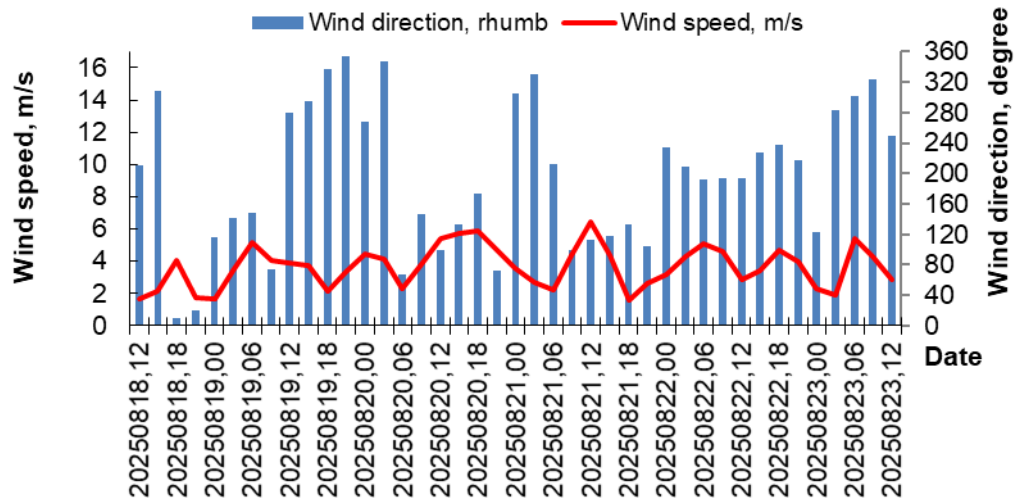


Wave condition in the Aktau

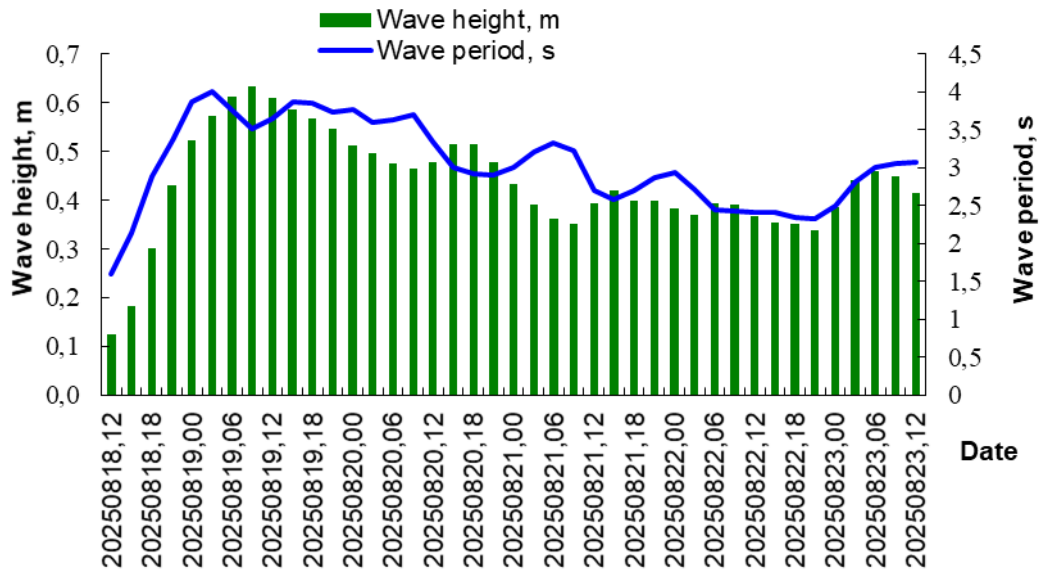


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250818.12	0.11	W	1.4	2	E
20250818.15	0.17	NW	1.9	2	NW
20250818.18	0.29	N	2.5	5	W
20250818.21	0.43	N	3.0	4	NW
20250819.00	0.54	N	3.5	2	SW
20250819.03	0.60	N	3.8	3	SE
20250819.06	0.66	N	3.6	5	SE
20250819.09	0.72	N	3.4	6	SE
20250819.12	0.72	NW	3.6	3	SE
20250819.15	0.69	NW	3.8	2	W
20250819.18	0.62	NW	3.8	6	NW
20250819.21	0.56	NW	3.7	4	NW
20250820.00	0.51	N	3.7	2	NW
20250820.03	0.48	N	3.8	2	N
20250820.06	0.47	N	3.8	2	SE
20250820.09	0.47	N	3.5	4	E
20250820.12	0.48	N	3.2	5	S
20250820.15	0.50	NW	3.0	4	SE
20250820.18	0.48	N	3.0	4	E
20250820.21	0.45	N	3.1	4	NE
20250821.00	0.41	N	3.2	4	W
20250821.03	0.39	N	3.1	4	W
20250821.06	0.36	N	3.1	3	E
20250821.09	0.34	N	3.2	3	E
20250821.12	0.33	N	3.2	2	SW
20250821.15	0.34	N	3.0	4	S
20250821.18	0.40	W	2.6	6	S
20250821.21	0.44	W	2.6	5	S
20250822.00	0.39	W	2.6	3	SW
20250822.03	0.37	W	2.6	4	S
20250822.06	0.38	W	2.4	5	SE
20250822.09	0.38	W	2.4	3	SE
20250822.12	0.36	W	2.5	2	SE
20250822.15	0.33	W	2.6	0	N
20250822.18	0.29	W	2.7	3	W
20250822.21	0.29	W	2.5	5	S
20250823.00	0.39	W	2.3	6	E
20250823.03	0.48	W	2.5	5	S
20250823.06	0.48	SW	2.7	4	SW
20250823.09	0.40	SW	2.7	2	W
20250823.12	0.35	SW	2.8	2	NW

Wind condition in the Peschanyi

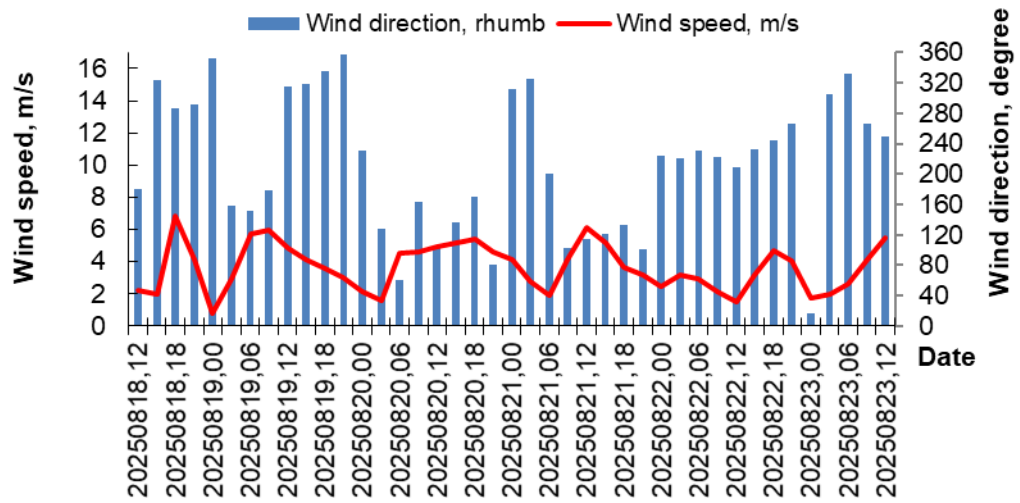


Wave condition in the Peschanyi

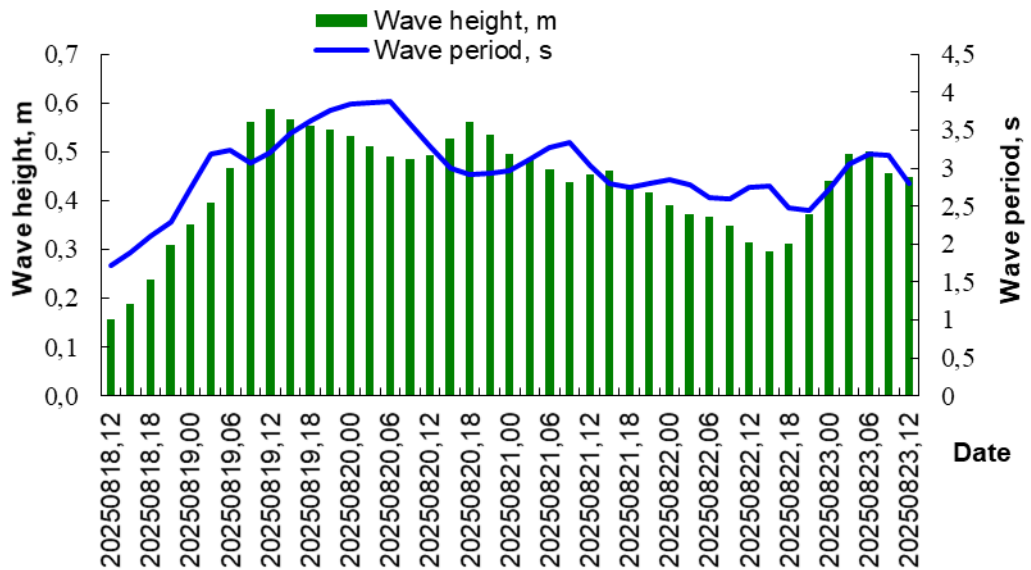


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250818.12	0.12	W	1.6	2	SW
20250818.15	0.18	NW	2.1	2	NW
20250818.18	0.30	N	2.9	4	N
20250818.21	0.43	N	3.4	2	N
20250819.00	0.52	N	3.9	2	SE
20250819.03	0.57	N	4.0	3	SE
20250819.06	0.61	N	3.7	5	SE
20250819.09	0.63	N	3.5	4	E
20250819.12	0.61	N	3.7	4	W
20250819.15	0.59	NW	3.9	4	NW
20250819.18	0.57	NW	3.9	2	NW
20250819.21	0.55	N	3.7	3	N
20250820.00	0.51	N	3.8	4	W
20250820.03	0.50	N	3.6	4	N
20250820.06	0.48	N	3.6	2	NE
20250820.09	0.46	N	3.7	4	SE
20250820.12	0.48	N	3.3	5	E
20250820.15	0.52	NW	3.0	6	SE
20250820.18	0.51	NW	2.9	6	S
20250820.21	0.48	N	2.9	5	E
20250821.00	0.43	N	3.0	4	NW
20250821.03	0.39	N	3.2	3	NW
20250821.06	0.36	N	3.3	2	SW
20250821.09	0.35	N	3.2	4	E
20250821.12	0.39	NW	2.7	6	SE
20250821.15	0.42	NW	2.6	4	SE
20250821.18	0.40	NW	2.7	2	SE
20250821.21	0.40	W	2.9	3	E
20250822.00	0.38	W	2.9	3	SW
20250822.03	0.37	W	2.7	4	SW
20250822.06	0.39	W	2.5	5	S
20250822.09	0.39	W	2.4	5	S
20250822.12	0.37	W	2.4	3	S
20250822.15	0.35	W	2.4	3	SW
20250822.18	0.35	W	2.3	5	SW
20250822.21	0.34	SW	2.3	4	SW
20250823.00	0.39	W	2.5	2	SE
20250823.03	0.44	W	2.8	2	W
20250823.06	0.46	W	3.0	5	NW
20250823.09	0.45	SW	3.1	4	NW
20250823.12	0.42	SW	3.1	3	W

Wind condition in the Fetisovo

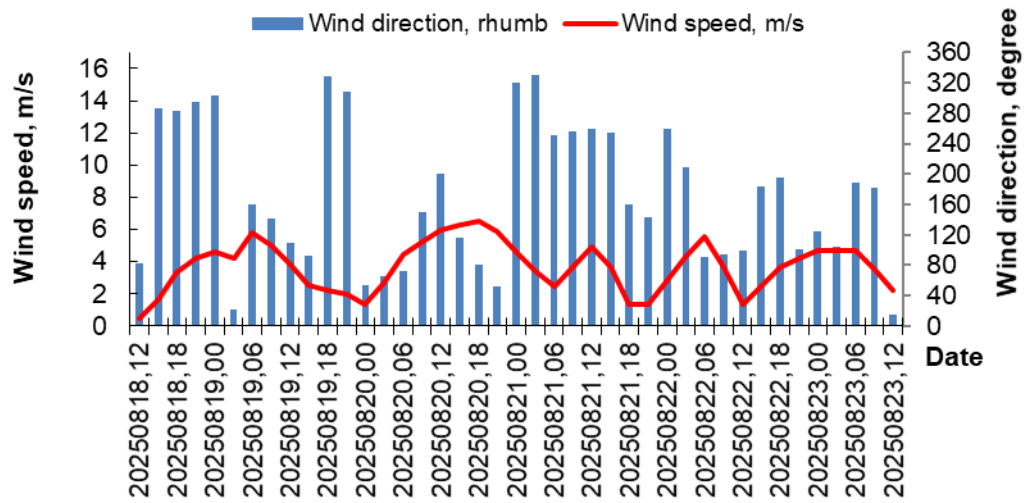


Wave condition in the Fetisovo

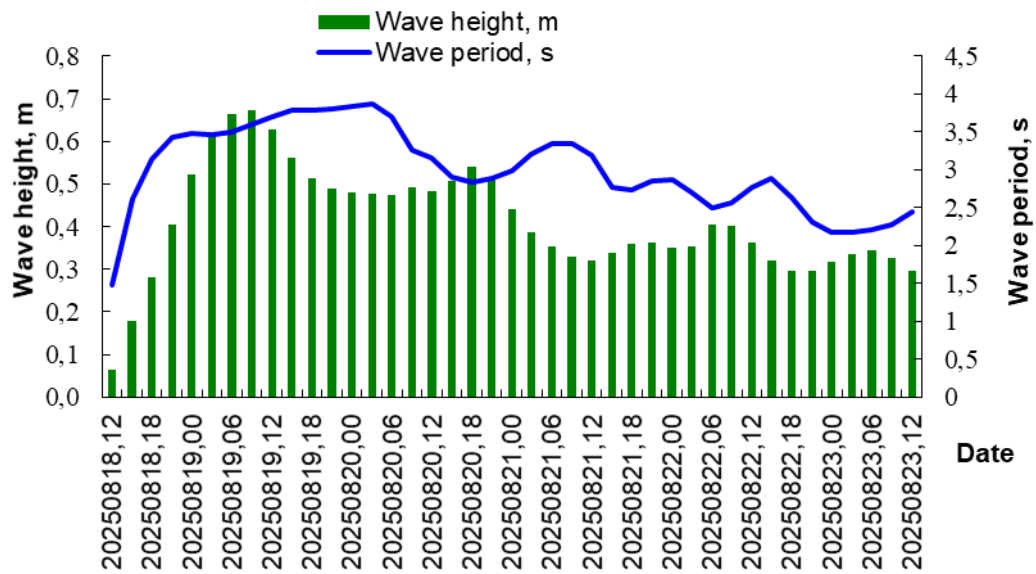


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250818.12	0.16	W	1.7	2	S
20250818.15	0.19	W	1.9	2	NW
20250818.18	0.24	W	2.1	7	W
20250818.21	0.31	E	2.3	4	W
20250819.00	0.35	NE	2.7	1	N
20250819.03	0.40	N	3.2	3	S
20250819.06	0.47	N	3.2	6	SE
20250819.09	0.56	N	3.1	6	S
20250819.12	0.59	N	3.2	5	NW
20250819.15	0.57	N	3.5	4	NW
20250819.18	0.55	N	3.6	4	NW
20250819.21	0.55	N	3.8	3	N
20250820.00	0.53	N	3.8	2	SW
20250820.03	0.51	N	3.9	2	SE
20250820.06	0.49	N	3.9	5	NE
20250820.09	0.49	N	3.6	5	S
20250820.12	0.49	N	3.3	5	E
20250820.15	0.53	NW	3.0	5	SE
20250820.18	0.56	NW	2.9	5	S
20250820.21	0.54	N	2.9	5	E
20250821.00	0.50	N	3.0	4	NW
20250821.03	0.48	NE	3.1	3	NW
20250821.06	0.46	NE	3.3	2	S
20250821.09	0.44	NE	3.3	4	E
20250821.12	0.45	NW	3.0	6	SE
20250821.15	0.46	NW	2.8	5	SE
20250821.18	0.43	NW	2.7	4	SE
20250821.21	0.42	NW	2.8	3	E
20250822.00	0.39	W	2.9	2	SW
20250822.03	0.37	W	2.8	3	SW
20250822.06	0.37	W	2.6	3	SW
20250822.09	0.35	W	2.6	2	SW
20250822.12	0.32	W	2.8	1	SW
20250822.15	0.30	W	2.8	3	SW
20250822.18	0.31	W	2.5	5	SW
20250822.21	0.37	SW	2.4	4	W
20250823.00	0.44	SW	2.7	2	N
20250823.03	0.50	SW	3.0	2	NW
20250823.06	0.50	SW	3.2	3	NW
20250823.09	0.46	SW	3.2	4	W
20250823.12	0.45	SW	2.8	6	W

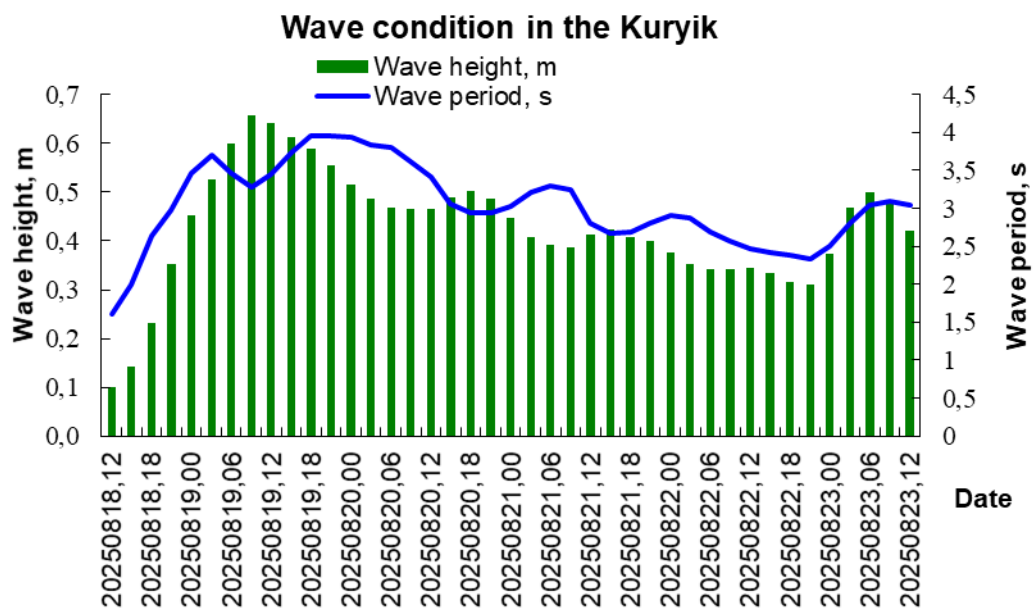
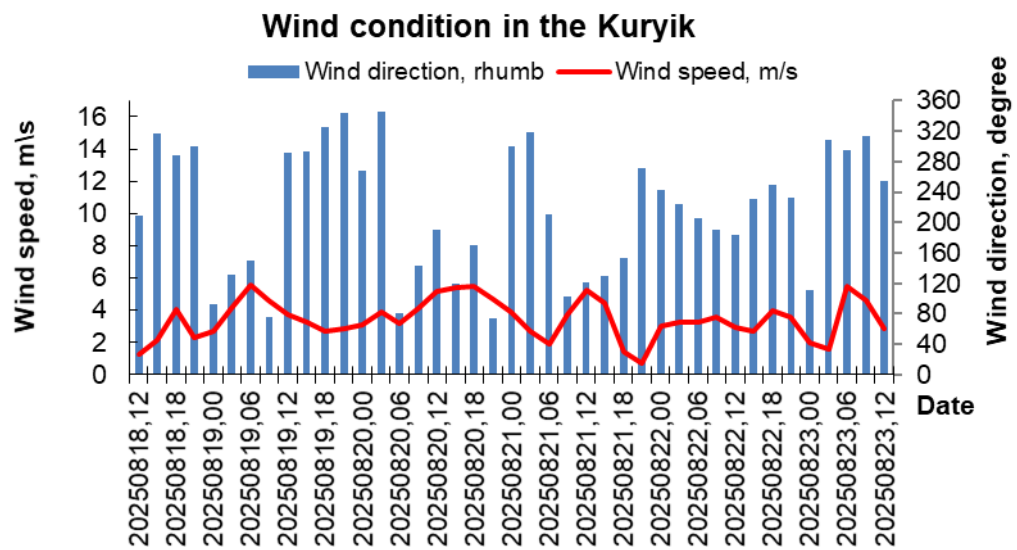
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250818.12	0.06	NW	1.5	0	E
20250818.15	0.18	NW	2.6	2	W
20250818.18	0.28	NW	3.1	3	W
20250818.21	0.40	N	3.4	4	NW
20250819.00	0.52	N	3.5	5	NW
20250819.03	0.61	N	3.5	4	N
20250819.06	0.67	N	3.5	6	S
20250819.09	0.67	N	3.6	5	SE
20250819.12	0.63	N	3.7	4	E
20250819.15	0.56	N	3.8	3	E
20250819.18	0.51	N	3.8	2	NW
20250819.21	0.49	N	3.8	2	NW
20250820.00	0.48	N	3.8	1	NE
20250820.03	0.48	N	3.9	3	NE
20250820.06	0.48	N	3.7	4	E
20250820.09	0.49	N	3.3	5	SE
20250820.12	0.48	N	3.2	6	S
20250820.15	0.51	NW	2.9	6	SE
20250820.18	0.54	NW	2.8	7	E
20250820.21	0.51	N	2.9	6	NE
20250821.00	0.44	N	3.0	5	NW
20250821.03	0.39	N	3.2	3	NW
20250821.06	0.35	N	3.3	2	W
20250821.09	0.33	N	3.4	4	W
20250821.12	0.32	N	3.2	5	W
20250821.15	0.34	N	2.8	4	W
20250821.18	0.36	SW	2.7	1	S
20250821.21	0.36	SW	2.8	1	SE
20250822.00	0.35	SW	2.9	3	W
20250822.03	0.35	SW	2.7	4	SW
20250822.06	0.40	SW	2.5	6	E
20250822.09	0.40	SW	2.6	4	E
20250822.12	0.36	W	2.8	1	E
20250822.15	0.32	W	2.9	2	S
20250822.18	0.30	W	2.6	4	S
20250822.21	0.30	W	2.3	4	E
20250823.00	0.32	W	2.2	5	SE
20250823.03	0.34	W	2.2	5	E
20250823.06	0.34	W	2.2	5	S
20250823.09	0.33	W	2.3	4	S
20250823.12	0.30	W	2.5	2	N



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250818.12	0.10	W	1.6	1	SW
20250818.15	0.14	W	2.0	2	NW
20250818.18	0.23	N	2.6	4	W
20250818.21	0.35	N	3.0	2	NW
20250819.00	0.45	N	3.5	3	E
20250819.03	0.53	N	3.7	4	SE
20250819.06	0.60	N	3.5	6	SE
20250819.09	0.66	N	3.3	5	E
20250819.12	0.64	N	3.5	4	W
20250819.15	0.61	NW	3.7	3	NW
20250819.18	0.59	NW	3.9	3	NW
20250819.21	0.55	NW	4.0	3	N
20250820.00	0.52	NW	3.9	3	W
20250820.03	0.49	N	3.8	4	N
20250820.06	0.47	N	3.8	3	E
20250820.09	0.47	N	3.6	4	SE
20250820.12	0.47	N	3.4	5	S
20250820.15	0.49	NW	3.1	5	SE
20250820.18	0.50	NW	2.9	6	S
20250820.21	0.49	N	2.9	5	E
20250821.00	0.45	N	3.0	4	NW
20250821.03	0.41	N	3.2	3	NW
20250821.06	0.39	N	3.3	2	SW
20250821.09	0.39	N	3.2	4	E
20250821.12	0.41	NW	2.8	5	SE
20250821.15	0.42	NW	2.7	4	SE
20250821.18	0.41	NW	2.7	1	SE
20250821.21	0.40	W	2.8	1	W
20250822.00	0.38	W	2.9	3	SW
20250822.03	0.35	W	2.9	3	SW
20250822.06	0.34	W	2.7	3	SW
20250822.09	0.34	W	2.6	4	S
20250822.12	0.35	W	2.5	3	S
20250822.15	0.33	W	2.4	3	SW
20250822.18	0.31	W	2.4	4	W
20250822.21	0.31	SW	2.3	4	SW
20250823.00	0.37	W	2.5	2	E
20250823.03	0.47	W	2.8	2	NW
20250823.06	0.50	SW	3.0	5	NW
20250823.09	0.48	SW	3.1	5	NW
20250823.12	0.42	SW	3.0	3	W

**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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