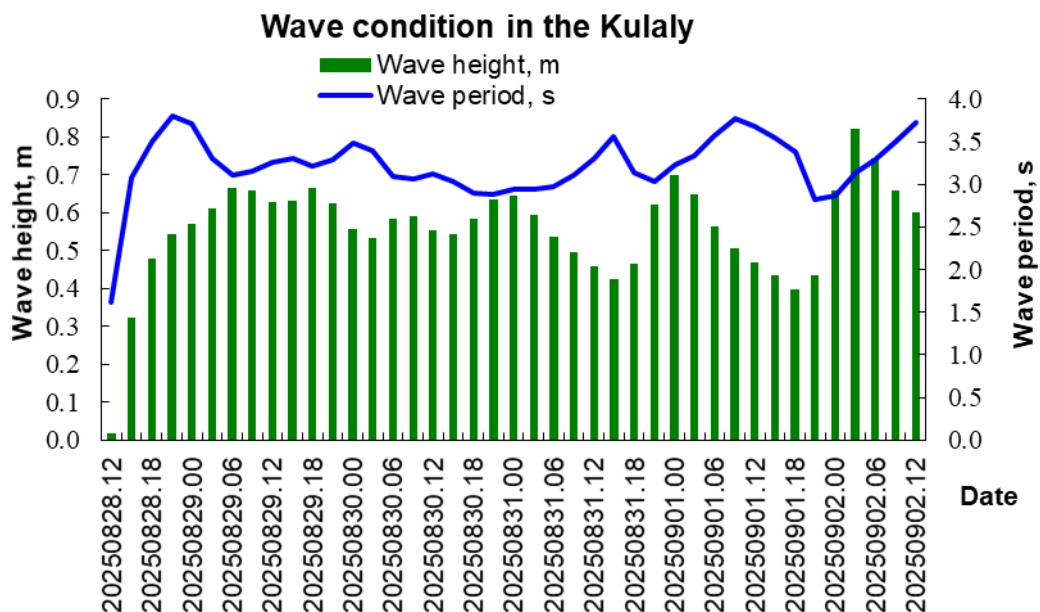
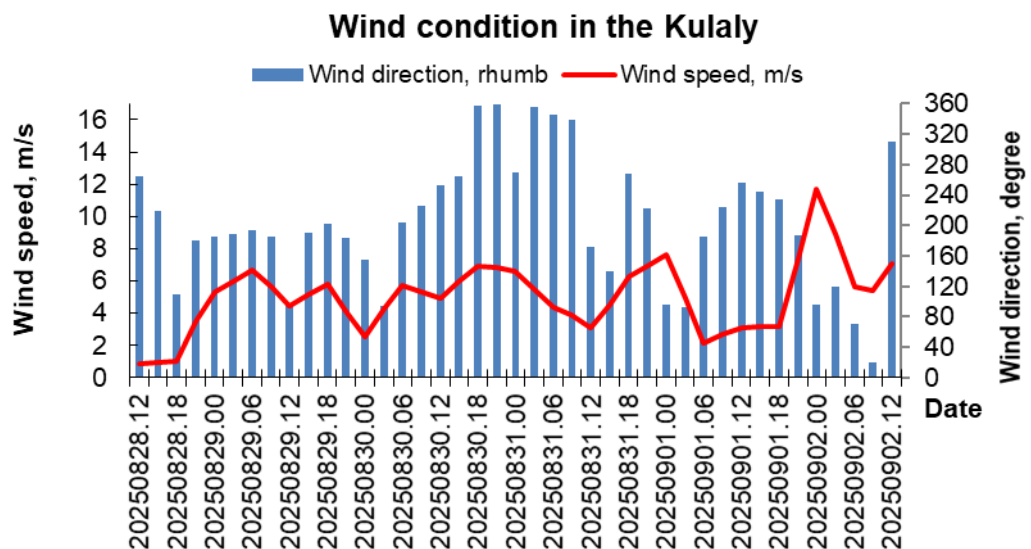




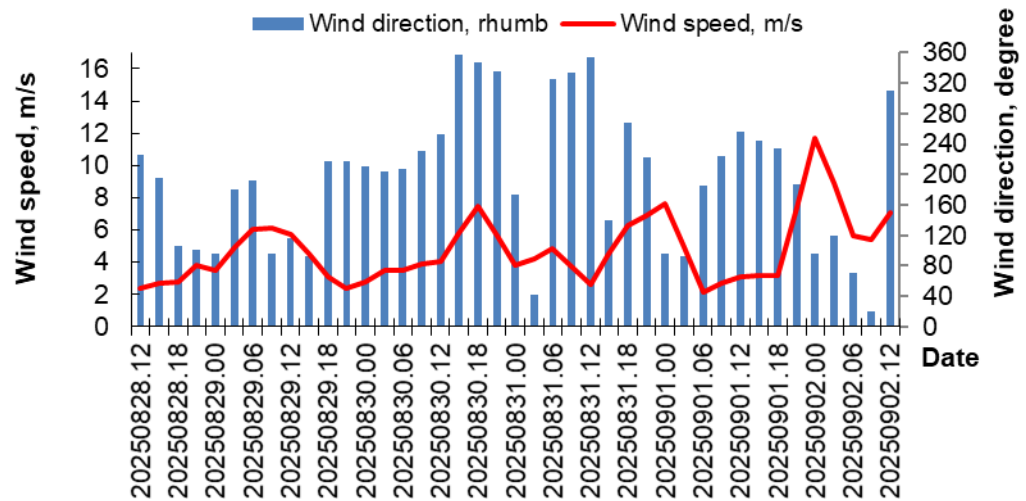
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 28 – September 02, 2025.**

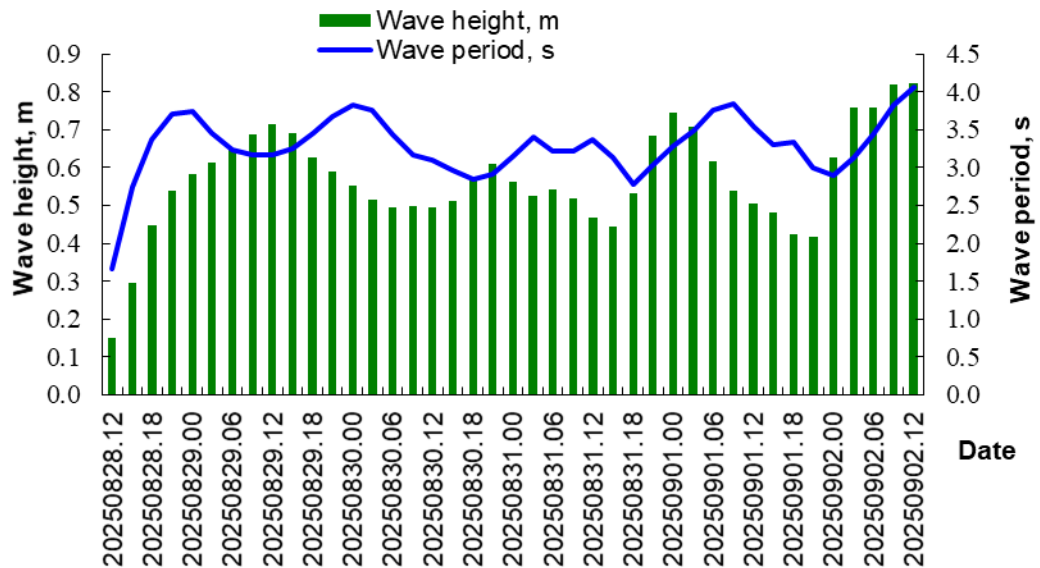


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250828.12	0.02	S	1.6	1	W
20250828.15	0.32	SW	3.1	1	SW
20250828.18	0.48	S	3.5	1	E
20250828.21	0.54	S	3.8	3	S
20250829.00	0.57	S	3.7	5	S
20250829.03	0.61	S	3.3	6	S
20250829.06	0.66	SW	3.1	7	S
20250829.09	0.66	SW	3.2	6	S
20250829.12	0.63	SW	3.3	4	E
20250829.15	0.63	SW	3.3	5	S
20250829.18	0.67	SW	3.2	6	SW
20250829.21	0.63	SW	3.3	4	S
20250830.00	0.56	SW	3.5	3	SE
20250830.03	0.53	SW	3.4	4	E
20250830.06	0.58	SW	3.1	6	SW
20250830.09	0.59	SW	3.1	5	SW
20250830.12	0.55	SW	3.1	5	W
20250830.15	0.54	SW	3.0	6	W
20250830.18	0.58	SW	2.9	7	N
20250830.21	0.64	SW	2.9	7	N
20250831.00	0.65	S	2.9	7	W
20250831.03	0.59	S	2.9	5	N
20250831.06	0.54	S	3.0	4	N
20250831.09	0.50	S	3.1	4	N
20250831.12	0.46	S	3.3	3	S
20250831.15	0.42	S	3.6	5	SE
20250831.18	0.46	SW	3.1	6	W
20250831.21	0.62	SW	3.0	7	SW
20250901.00	0.70	SW	3.2	8	E
20250901.03	0.65	SW	3.3	5	E
20250901.06	0.56	SW	3.6	2	S
20250901.09	0.50	SW	3.8	3	SW
20250901.12	0.47	SW	3.7	3	W
20250901.15	0.44	SW	3.6	3	SW
20250901.18	0.40	SW	3.4	3	SW
20250901.21	0.44	SW	2.8	7	S
20250902.00	0.66	W	2.9	12	E
20250902.03	0.82	W	3.1	9	SE
20250902.06	0.74	W	3.3	6	E
20250902.09	0.66	W	3.5	5	N
20250902.12	0.60	SW	3.7	7	NW

Wind condition in the Fort-Shevchenko

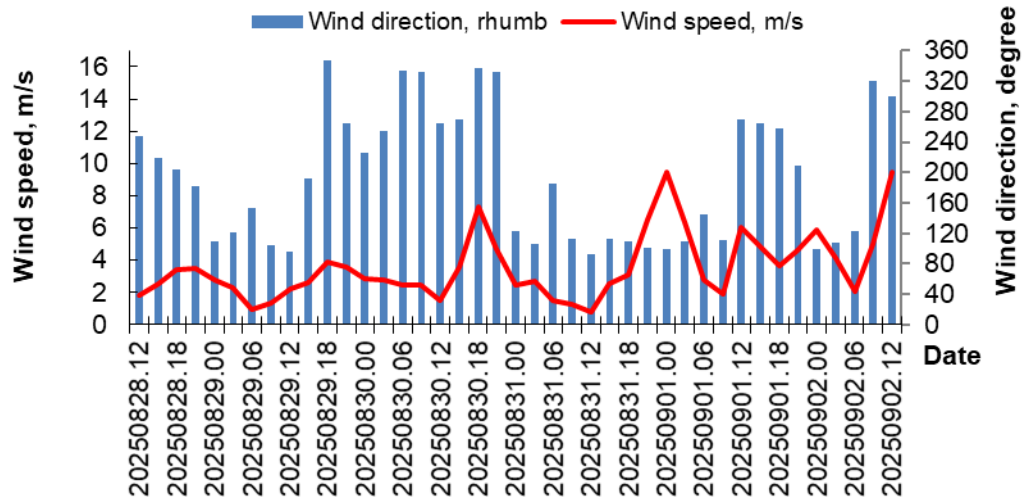


Wave condition in the Fort-Shevchenko

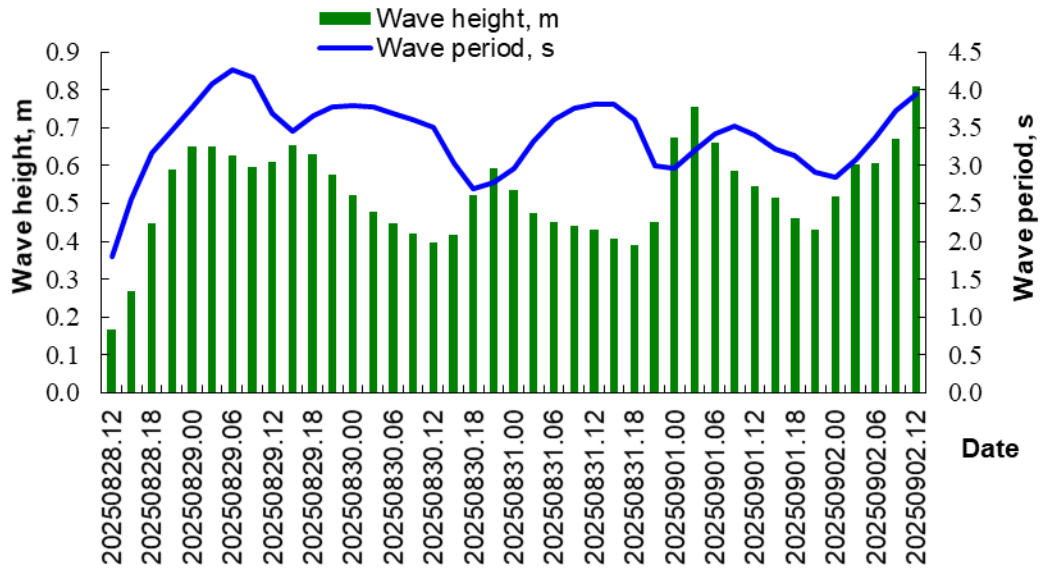


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250828.12	0.15	SW	1.7	2	SW
20250828.15	0.30	S	2.7	3	S
20250828.18	0.45	S	3.4	3	E
20250828.21	0.54	S	3.7	4	E
20250829.00	0.58	S	3.7	4	E
20250829.03	0.61	S	3.5	5	S
20250829.06	0.65	S	3.2	6	S
20250829.09	0.69	SW	3.2	6	E
20250829.12	0.71	SW	3.2	6	SE
20250829.15	0.69	SW	3.3	5	E
20250829.18	0.63	SW	3.4	3	SW
20250829.21	0.59	SW	3.7	2	SW
20250830.00	0.55	SW	3.8	3	SW
20250830.03	0.51	SW	3.8	4	SW
20250830.06	0.50	SW	3.4	4	SW
20250830.09	0.50	SW	3.2	4	SW
20250830.12	0.49	SW	3.1	4	W
20250830.15	0.51	SW	3.0	6	N
20250830.18	0.57	SW	2.9	7	N
20250830.21	0.61	S	2.9	6	NW
20250831.00	0.56	S	3.2	4	S
20250831.03	0.53	S	3.4	4	NE
20250831.06	0.54	S	3.2	5	NW
20250831.09	0.52	S	3.2	4	NW
20250831.12	0.47	S	3.4	3	N
20250831.15	0.45	S	3.1	5	SE
20250831.18	0.53	S	2.8	6	W
20250831.21	0.68	SW	3.0	7	SW
20250901.00	0.75	SW	3.3	8	E
20250901.03	0.71	SW	3.5	5	E
20250901.06	0.62	SW	3.8	2	S
20250901.09	0.54	SW	3.8	3	SW
20250901.12	0.51	SW	3.5	3	W
20250901.15	0.48	SW	3.3	3	SW
20250901.18	0.43	SW	3.3	3	SW
20250901.21	0.42	SW	3.0	7	S
20250902.00	0.63	W	2.9	12	E
20250902.03	0.76	W	3.1	9	SE
20250902.06	0.76	W	3.4	6	E
20250902.09	0.82	W	3.8	5	N
20250902.12	0.82	SW	4.1	7	NW

Wind condition in the Aktau

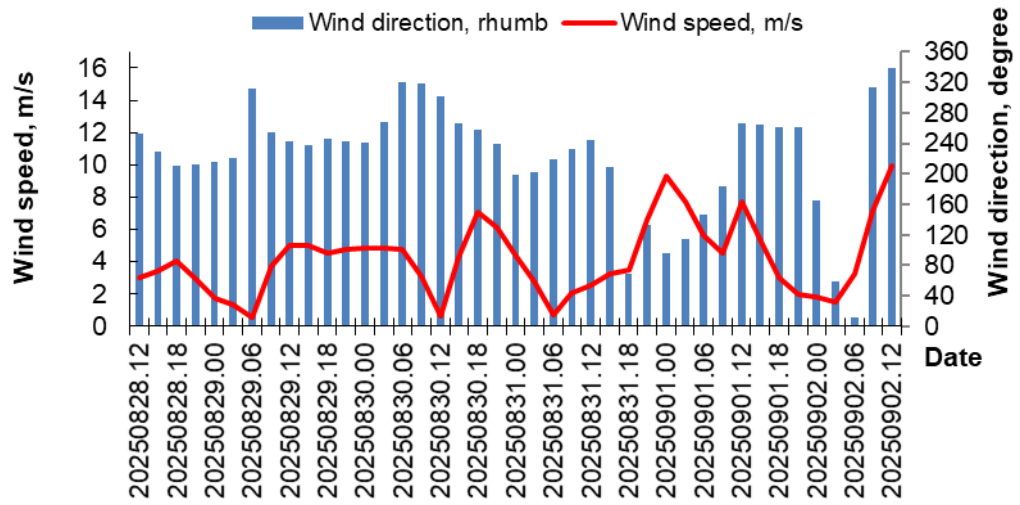


Wave condition in the Aktau

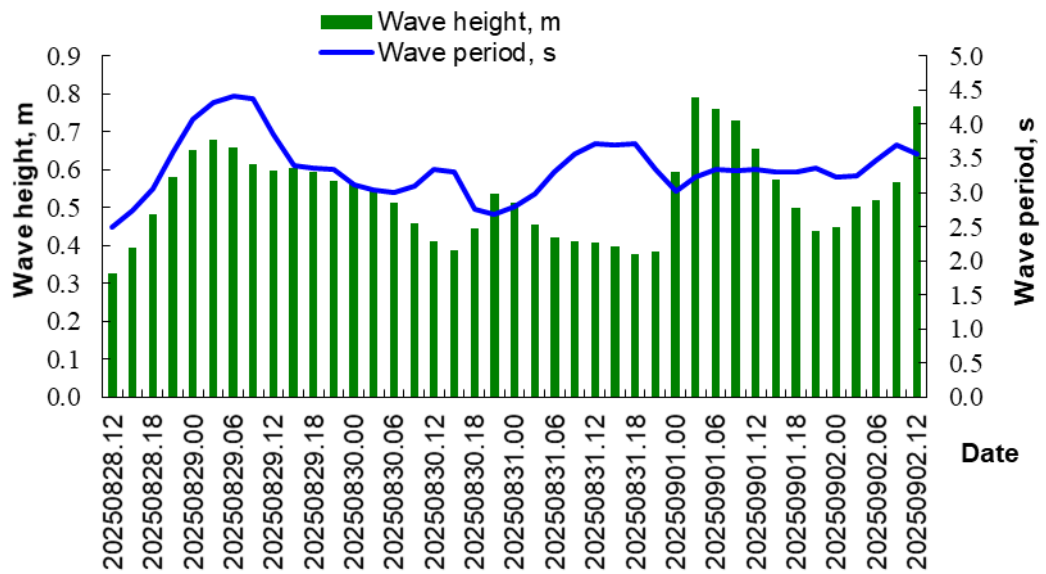


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250828.12	0.17	S	1.8	2	W
20250828.15	0.27	S	2.6	3	SW
20250828.18	0.45	S	3.2	3	SW
20250828.21	0.59	S	3.5	4	S
20250829.00	0.65	S	3.8	3	E
20250829.03	0.65	S	4.1	2	SE
20250829.06	0.63	S	4.3	1	SE
20250829.09	0.60	S	4.2	1	E
20250829.12	0.61	S	3.7	2	E
20250829.15	0.65	SW	3.5	3	S
20250829.18	0.63	SW	3.7	4	N
20250829.21	0.58	SW	3.8	4	W
20250830.00	0.52	SW	3.8	3	SW
20250830.03	0.48	SW	3.8	3	W
20250830.06	0.45	SW	3.7	2	NW
20250830.09	0.42	SW	3.6	2	NW
20250830.12	0.40	SW	3.5	1	W
20250830.15	0.42	SW	3.0	4	W
20250830.18	0.52	S	2.7	7	N
20250830.21	0.59	S	2.8	5	NW
20250831.00	0.54	S	3.0	2	SE
20250831.03	0.48	SW	3.3	3	E
20250831.06	0.45	SW	3.6	2	S
20250831.09	0.44	SW	3.8	1	SE
20250831.12	0.43	SW	3.8	1	E
20250831.15	0.41	SW	3.8	3	SE
20250831.18	0.39	SW	3.6	3	E
20250831.21	0.45	SW	3.0	7	E
20250901.00	0.67	W	3.0	9	E
20250901.03	0.75	W	3.2	6	E
20250901.06	0.66	W	3.4	3	SE
20250901.09	0.59	W	3.5	2	E
20250901.12	0.55	SW	3.4	6	W
20250901.15	0.51	SW	3.2	5	W
20250901.18	0.46	SW	3.1	4	W
20250901.21	0.43	SW	2.9	5	SW
20250902.00	0.52	SW	2.8	6	E
20250902.03	0.60	W	3.1	4	E
20250902.06	0.61	W	3.4	2	SE
20250902.09	0.67	W	3.7	5	NW
20250902.12	0.81	SW	3.9	9	NW

Wind condition in the Peschanyi

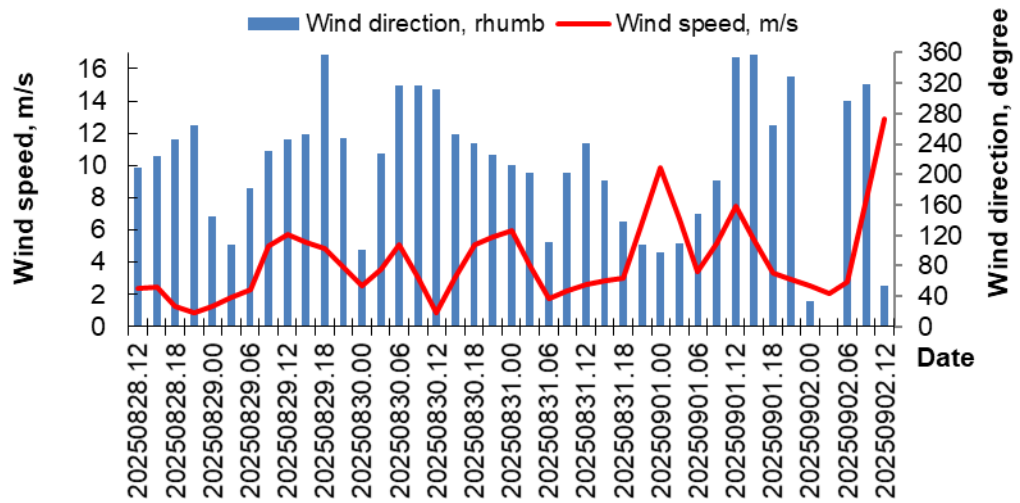


Wave condition in the Peschanyi

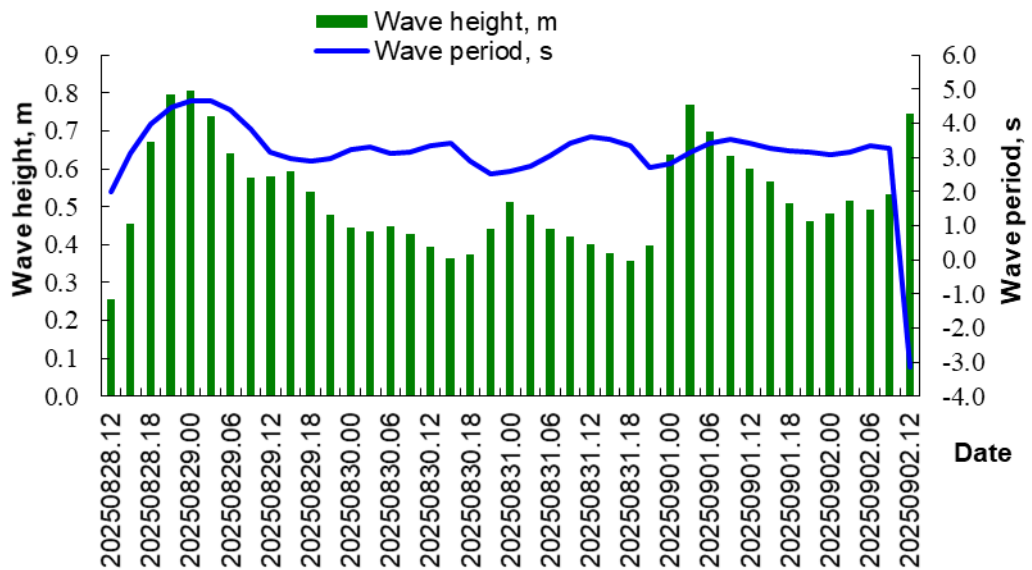


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250828.12	0.33	S	2.5	3	W
20250828.15	0.39	S	2.7	3	SW
20250828.18	0.48	S	3.1	4	SW
20250828.21	0.58	S	3.6	3	SW
20250829.00	0.65	S	4.1	2	SW
20250829.03	0.68	S	4.3	1	SW
20250829.06	0.66	S	4.4	1	NW
20250829.09	0.62	S	4.4	4	W
20250829.12	0.60	S	3.9	5	SW
20250829.15	0.61	S	3.4	5	SW
20250829.18	0.59	SW	3.4	5	SW
20250829.21	0.57	SW	3.3	5	SW
20250830.00	0.56	SW	3.1	5	SW
20250830.03	0.55	SW	3.0	5	W
20250830.06	0.51	SW	3.0	5	NW
20250830.09	0.46	SW	3.1	3	NW
20250830.12	0.41	SW	3.3	1	NW
20250830.15	0.39	SW	3.3	4	W
20250830.18	0.45	SW	2.8	7	W
20250830.21	0.54	SW	2.7	6	SW
20250831.00	0.51	SW	2.8	4	S
20250831.03	0.45	SW	3.0	3	S
20250831.06	0.42	SW	3.3	1	SW
20250831.09	0.41	SW	3.6	2	SW
20250831.12	0.41	SW	3.7	3	SW
20250831.15	0.40	SW	3.7	3	SW
20250831.18	0.38	SW	3.7	3	E
20250831.21	0.39	SW	3.3	7	SE
20250901.00	0.60	W	3.0	9	E
20250901.03	0.79	W	3.2	8	SE
20250901.06	0.76	W	3.3	6	SE
20250901.09	0.73	W	3.3	5	S
20250901.12	0.66	W	3.3	8	W
20250901.15	0.57	SW	3.3	5	W
20250901.18	0.50	SW	3.3	3	W
20250901.21	0.44	SW	3.4	2	W
20250902.00	0.45	SW	3.2	2	S
20250902.03	0.50	W	3.2	1	NE
20250902.06	0.52	W	3.5	3	N
20250902.09	0.57	W	3.7	7	NW
20250902.12	0.77	SW	3.6	10	N

Wind condition in the Fetisovo

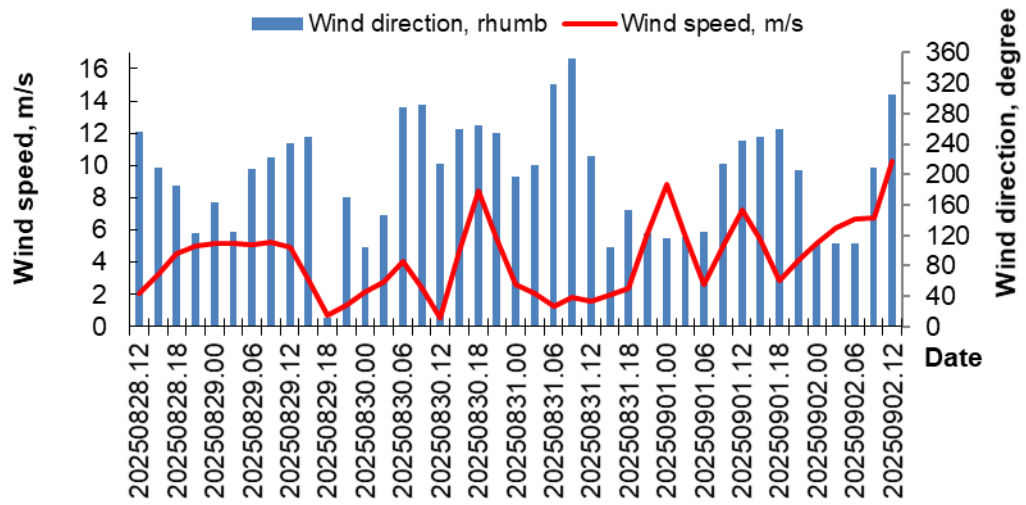


Wave condition in the Fetisovo

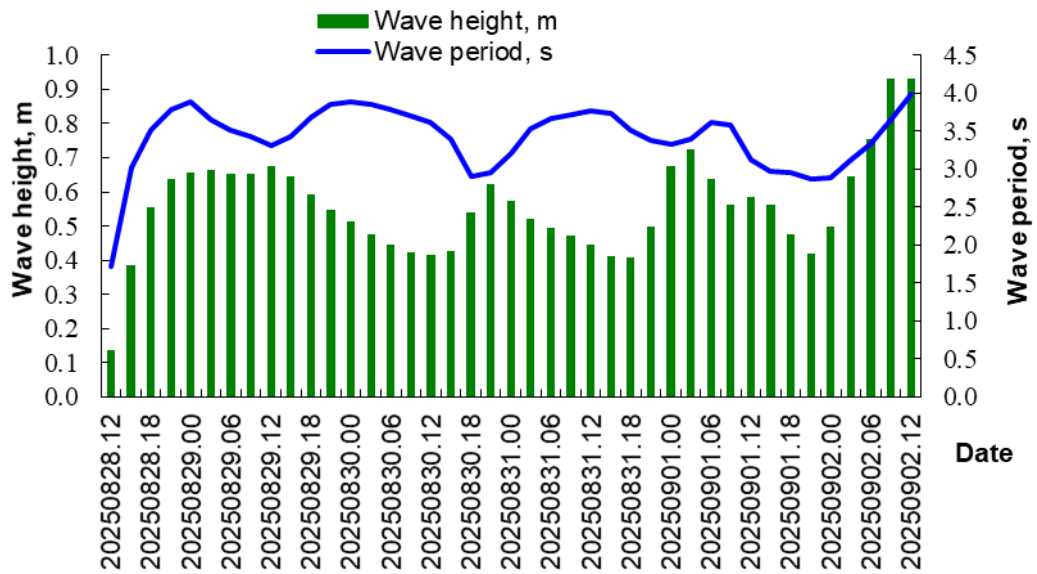


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250828.12	0.26	SW	2.0	2	SW
20250828.15	0.45	S	3.1	2	SW
20250828.18	0.67	S	4.0	1	SW
20250828.21	0.80	S	4.5	1	W
20250829.00	0.81	S	4.7	1	SE
20250829.03	0.74	S	4.7	2	E
20250829.06	0.64	S	4.4	2	S
20250829.09	0.58	S	3.8	5	SW
20250829.12	0.58	S	3.2	6	SW
20250829.15	0.59	S	3.0	5	W
20250829.18	0.54	S	2.9	5	N
20250829.21	0.48	S	3.0	4	W
20250830.00	0.44	SW	3.2	3	E
20250830.03	0.43	SW	3.3	4	SW
20250830.06	0.45	SW	3.1	5	NW
20250830.09	0.43	SW	3.2	3	NW
20250830.12	0.39	SW	3.4	1	NW
20250830.15	0.36	SW	3.4	3	W
20250830.18	0.37	SW	2.9	5	SW
20250830.21	0.44	SW	2.5	6	SW
20250831.00	0.51	SW	2.6	6	SW
20250831.03	0.48	SW	2.7	4	S
20250831.06	0.44	SW	3.0	2	E
20250831.09	0.42	SW	3.4	2	S
20250831.12	0.40	SW	3.6	3	SW
20250831.15	0.38	W	3.5	3	S
20250831.18	0.36	W	3.3	3	SE
20250831.21	0.40	W	2.7	7	E
20250901.00	0.64	W	2.8	10	E
20250901.03	0.77	W	3.1	7	E
20250901.06	0.70	W	3.4	3	SE
20250901.09	0.63	W	3.5	5	S
20250901.12	0.60	W	3.4	7	N
20250901.15	0.57	W	3.3	5	N
20250901.18	0.51	SW	3.2	3	W
20250901.21	0.46	SW	3.2	3	NW
20250902.00	0.48	W	3.1	3	NE
20250902.03	0.52	W	3.2	2	N
20250902.06	0.49	W	3.4	3	NW
20250902.09	0.53	SW	3.3	8	NW
20250902.12	0.75	S	-3.2	13	NE

Wind condition in the Saura

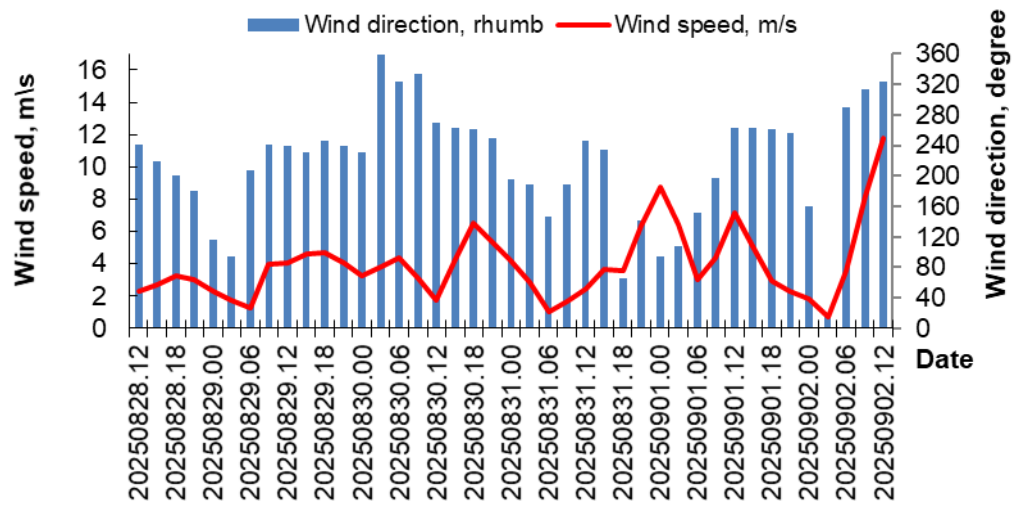


Wave condition in the Saura

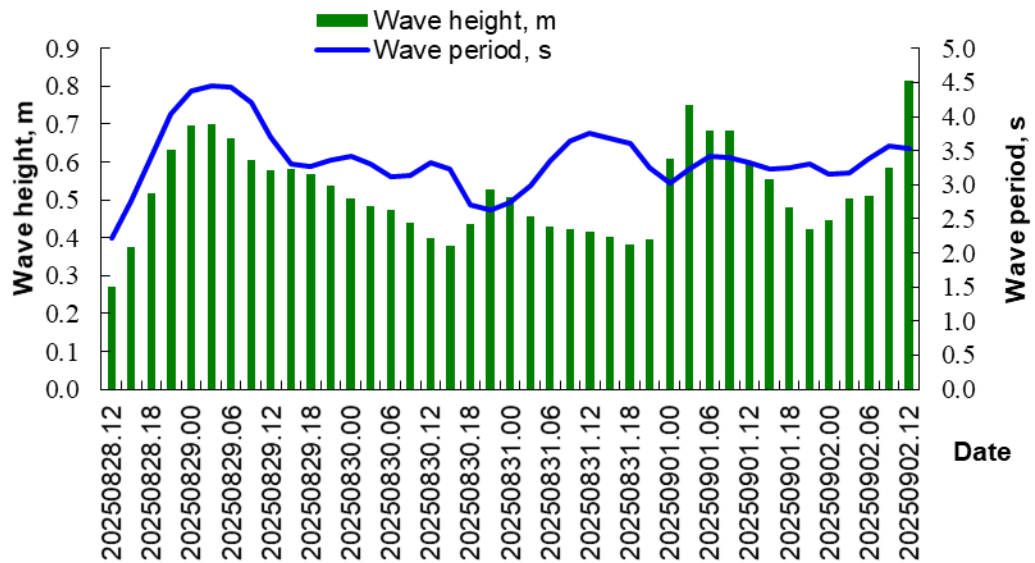


Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250828.12	0.14	S	1.7	2	W
20250828.15	0.38	S	3.0	3	SW
20250828.18	0.55	S	3.5	5	S
20250828.21	0.64	S	3.8	5	SE
20250829.00	0.66	S	3.9	5	S
20250829.03	0.66	S	3.6	5	SE
20250829.06	0.65	S	3.5	5	SW
20250829.09	0.65	S	3.4	5	SW
20250829.12	0.67	SW	3.3	5	SW
20250829.15	0.64	SW	3.4	3	W
20250829.18	0.59	SW	3.7	1	N
20250829.21	0.55	SW	3.9	1	S
20250830.00	0.51	SW	3.9	2	E
20250830.03	0.48	SW	3.9	3	SE
20250830.06	0.44	SW	3.8	4	W
20250830.09	0.42	SW	3.7	2	W
20250830.12	0.42	SW	3.6	1	SW
20250830.15	0.43	SW	3.4	5	W
20250830.18	0.54	SW	2.9	8	W
20250830.21	0.62	S	3.0	5	W
20250831.00	0.57	S	3.2	3	S
20250831.03	0.52	SW	3.5	2	SW
20250831.06	0.49	SW	3.7	1	NW
20250831.09	0.47	SW	3.7	2	N
20250831.12	0.44	SW	3.8	2	SW
20250831.15	0.41	SW	3.7	2	E
20250831.18	0.41	SW	3.5	2	SE
20250831.21	0.50	SW	3.4	6	SE
20250901.00	0.67	SW	3.3	9	SE
20250901.03	0.72	SW	3.4	6	SE
20250901.06	0.64	SW	3.6	3	SE
20250901.09	0.56	SW	3.6	5	SW
20250901.12	0.59	SW	3.1	7	SW
20250901.15	0.56	SW	3.0	5	W
20250901.18	0.48	SW	3.0	3	W
20250901.21	0.42	SW	2.9	4	SW
20250902.00	0.50	SW	2.9	5	E
20250902.03	0.65	W	3.1	6	E
20250902.06	0.75	W	3.3	7	E
20250902.09	0.93	W	3.6	7	SW
20250902.12	0.93	SW	4.0	10	NW

Wind condition in the Kuryik



Wave condition in the Kuryik



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250828.12	0.27	S	2.2	2	SW
20250828.15	0.38	S	2.8	3	SW
20250828.18	0.52	S	3.4	3	S
20250828.21	0.63	S	4.0	3	S
20250829.00	0.70	S	4.4	2	SE
20250829.03	0.70	S	4.5	2	E
20250829.06	0.66	S	4.4	1	SW
20250829.09	0.61	S	4.2	4	SW
20250829.12	0.58	S	3.7	4	SW
20250829.15	0.58	S	3.3	5	SW
20250829.18	0.57	SW	3.3	5	SW
20250829.21	0.54	SW	3.4	4	SW
20250830.00	0.50	SW	3.4	3	SW
20250830.03	0.48	SW	3.3	4	N
20250830.06	0.47	SW	3.1	4	NW
20250830.09	0.44	SW	3.1	3	NW
20250830.12	0.40	SW	3.3	2	W
20250830.15	0.38	SW	3.2	4	W
20250830.18	0.44	SW	2.7	7	W
20250830.21	0.53	SW	2.6	5	W
20250831.00	0.51	SW	2.7	4	S
20250831.03	0.46	SW	3.0	3	S
20250831.06	0.43	SW	3.4	1	SE
20250831.09	0.42	SW	3.7	2	S
20250831.12	0.41	SW	3.8	2	SW
20250831.15	0.40	SW	3.7	4	SW
20250831.18	0.38	SW	3.6	4	NE
20250831.21	0.40	SW	3.2	6	SE
20250901.00	0.61	W	3.0	9	E
20250901.03	0.75	W	3.2	6	E
20250901.06	0.68	W	3.4	3	SE
20250901.09	0.68	W	3.4	4	S
20250901.12	0.60	W	3.3	7	W
20250901.15	0.55	SW	3.2	5	W
20250901.18	0.48	SW	3.3	3	W
20250901.21	0.42	SW	3.3	2	W
20250902.00	0.45	SW	3.2	2	S
20250902.03	0.51	W	3.2	1	N
20250902.06	0.51	W	3.4	4	W
20250902.09	0.59	SW	3.6	8	NW
20250902.12	0.82	SW	3.5	12	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.

Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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