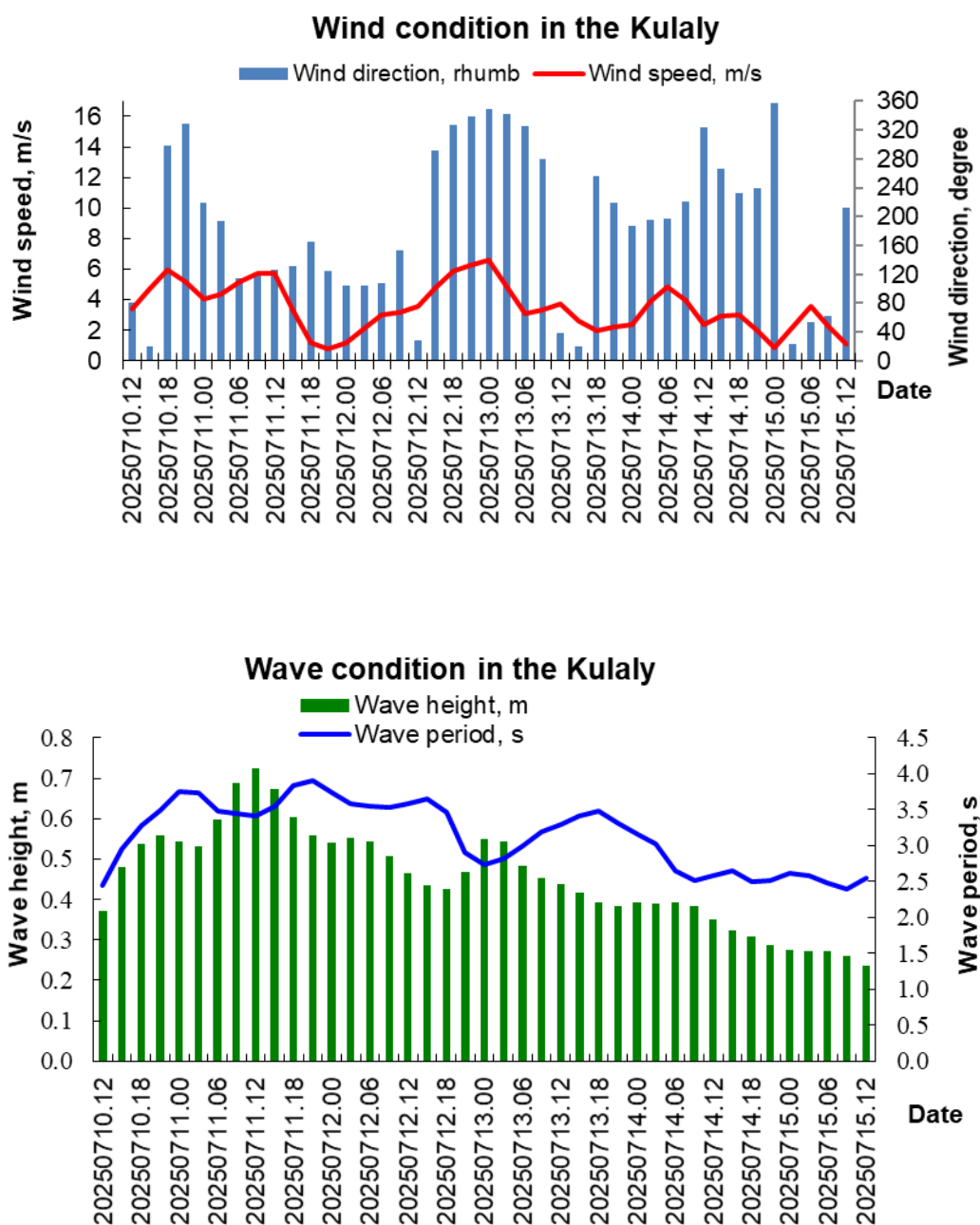




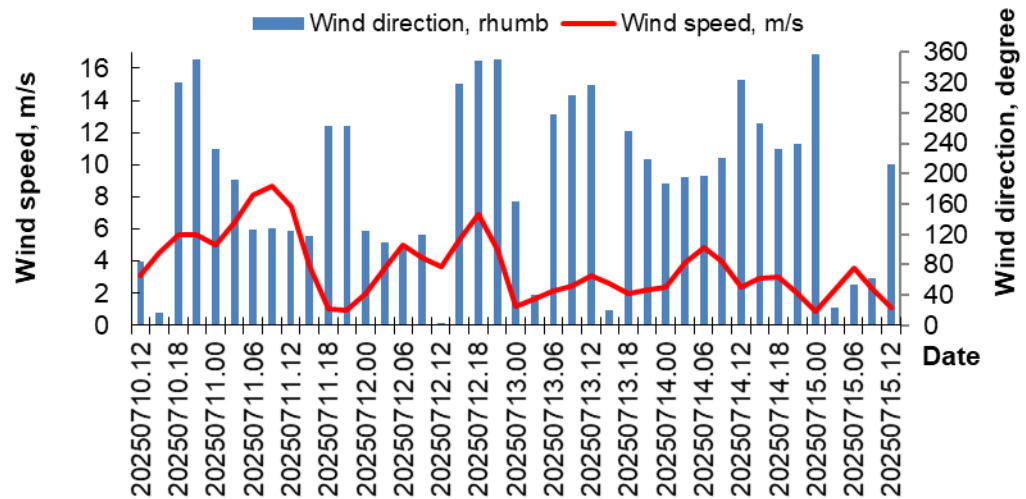
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 10 – 15, 2025.**

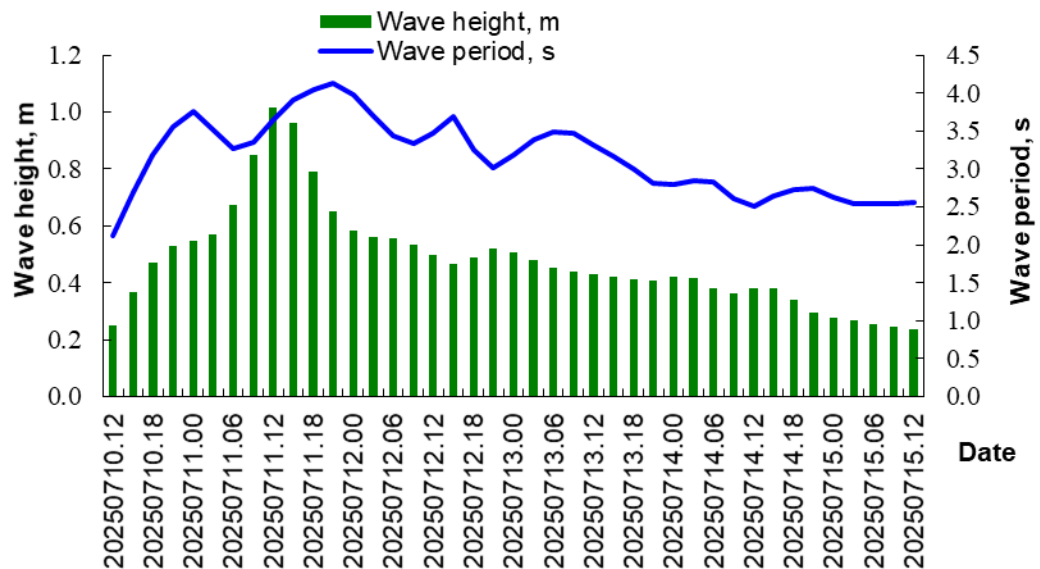


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250710.12	0.37	N	2.5	3	E
20250710.15	0.48	NW	2.9	5	N
20250710.18	0.54	NW	3.3	6	NW
20250710.21	0.56	NW	3.5	5	NW
20250711.00	0.54	NW	3.8	4	SW
20250711.03	0.53	NW	3.7	4	S
20250711.06	0.60	NW	3.5	5	SE
20250711.09	0.69	NW	3.4	6	SE
20250711.12	0.72	NW	3.4	6	SE
20250711.15	0.67	NW	3.6	3	SE
20250711.18	0.60	NW	3.8	1	S
20250711.21	0.56	NW	3.9	1	SE
20250712.00	0.54	W	3.7	1	E
20250712.03	0.55	W	3.6	2	E
20250712.06	0.54	W	3.6	3	E
20250712.09	0.51	W	3.5	3	SE
20250712.12	0.47	W	3.6	4	NE
20250712.15	0.44	SW	3.7	5	W
20250712.18	0.43	SW	3.5	6	NW
20250712.21	0.47	S	2.9	6	N
20250713.00	0.55	S	2.7	7	N
20250713.03	0.54	S	2.8	5	N
20250713.06	0.48	S	3.0	3	NW
20250713.09	0.45	S	3.2	3	W
20250713.12	0.44	S	3.3	4	NE
20250713.15	0.42	S	3.4	3	N
20250713.18	0.39	S	3.5	2	W
20250713.21	0.39	S	3.3	2	SW
20250714.00	0.39	S	3.2	2	S
20250714.03	0.39	S	3.0	4	S
20250714.06	0.39	S	2.6	5	S
20250714.09	0.38	SW	2.5	4	SW
20250714.12	0.35	SW	2.6	2	NW
20250714.15	0.32	SW	2.6	3	W
20250714.18	0.31	SW	2.5	3	SW
20250714.21	0.29	SW	2.5	2	SW
20250715.00	0.27	SW	2.6	1	N
20250715.03	0.27	W	2.6	2	NE
20250715.06	0.27	W	2.5	4	NE
20250715.09	0.26	W	2.4	2	NE
20250715.12	0.24	W	2.6	1	SW

Wind condition in the Fort-Shevchenko

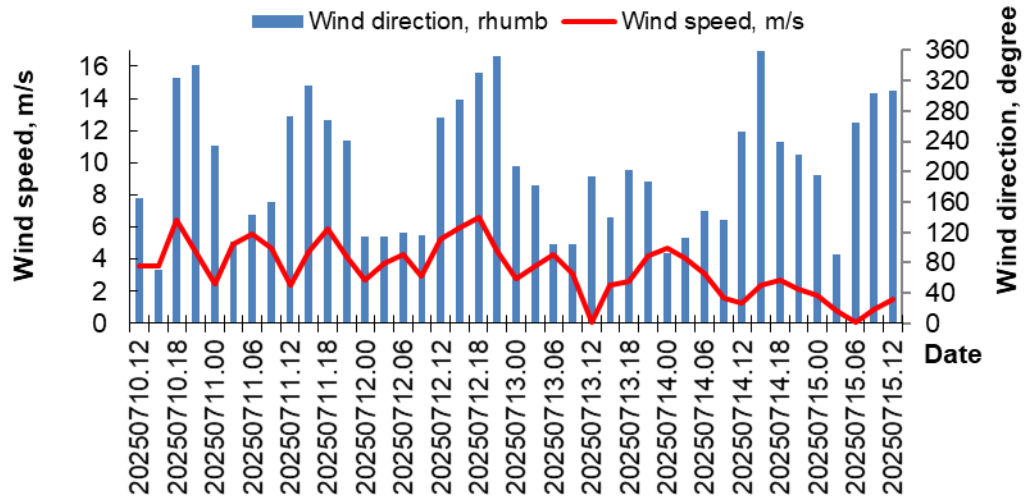


Wave condition in the Fort-Shevchenko

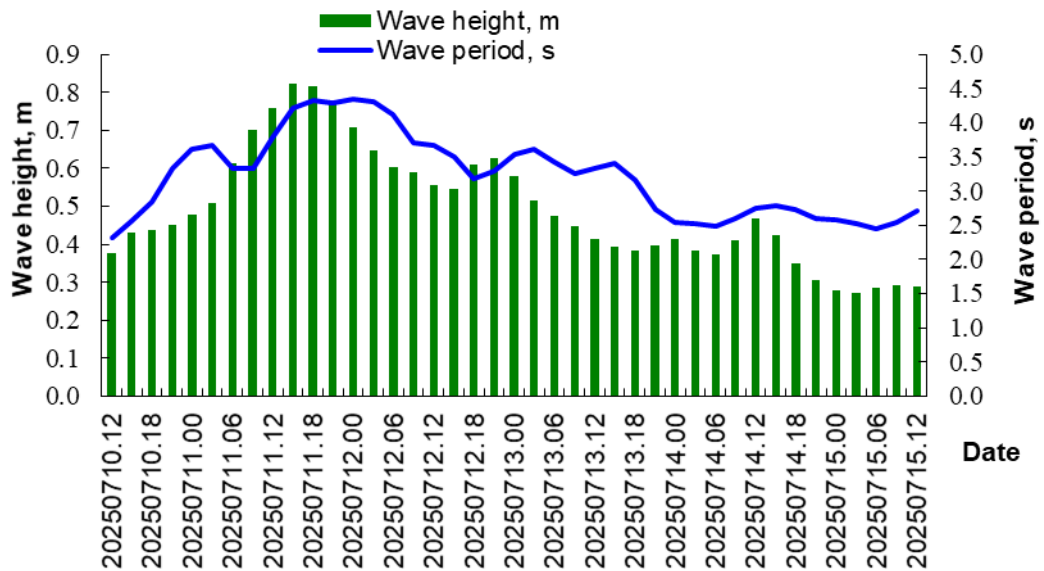


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250710.12	0.25	N	2.1	3	E
20250710.15	0.37	N	2.7	5	N
20250710.18	0.47	NW	3.2	6	NW
20250710.21	0.53	NW	3.5	6	N
20250711.00	0.55	NW	3.8	5	SW
20250711.03	0.57	W	3.5	6	S
20250711.06	0.67	W	3.3	8	SE
20250711.09	0.85	NW	3.4	9	SE
20250711.12	1.02	NW	3.6	7	SE
20250711.15	0.96	NW	3.9	4	SE
20250711.18	0.79	NW	4.1	1	W
20250711.21	0.65	NW	4.1	1	W
20250712.00	0.58	NW	4.0	2	SE
20250712.03	0.56	W	3.7	4	E
20250712.06	0.55	W	3.4	5	E
20250712.09	0.53	W	3.3	4	SE
20250712.12	0.50	W	3.5	4	N
20250712.15	0.47	SW	3.7	5	NW
20250712.18	0.49	S	3.3	7	N
20250712.21	0.52	S	3.0	5	N
20250713.00	0.51	S	3.2	1	S
20250713.03	0.48	S	3.4	2	NE
20250713.06	0.45	S	3.5	2	W
20250713.09	0.44	S	3.5	2	NW
20250713.12	0.43	S	3.3	3	NW
20250713.15	0.42	S	3.2	3	N
20250713.18	0.41	S	3.0	2	W
20250713.21	0.41	S	2.8	2	SW
20250714.00	0.42	S	2.8	2	S
20250714.03	0.41	S	2.8	4	S
20250714.06	0.38	SW	2.8	5	S
20250714.09	0.36	SW	2.6	4	SW
20250714.12	0.38	SW	2.5	2	NW
20250714.15	0.38	SW	2.6	3	W
20250714.18	0.34	W	2.7	3	SW
20250714.21	0.30	W	2.7	2	SW
20250715.00	0.28	W	2.6	1	N
20250715.03	0.27	W	2.5	2	NE
20250715.06	0.25	W	2.5	4	NE
20250715.09	0.25	W	2.5	2	NE
20250715.12	0.24	W	2.6	1	SW

Wind condition in the Aktau

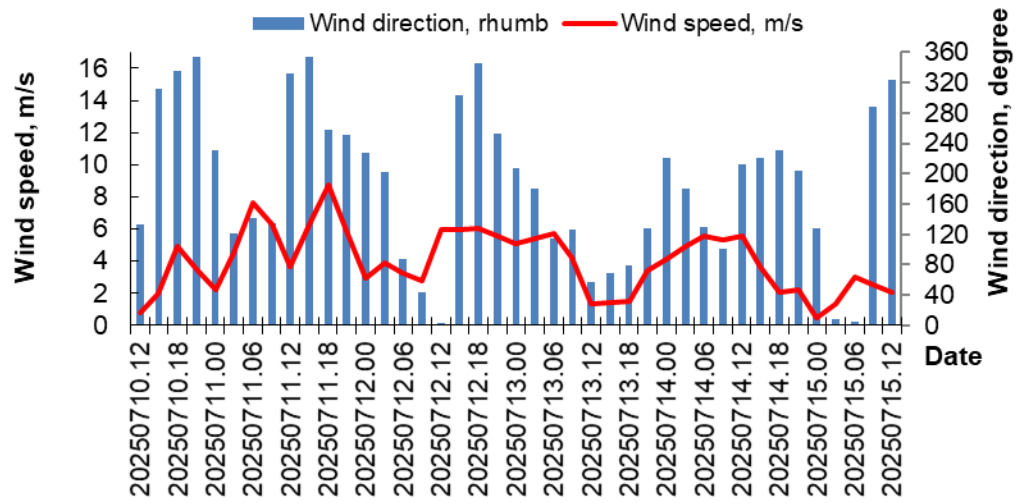


Wave condition in the Aktau

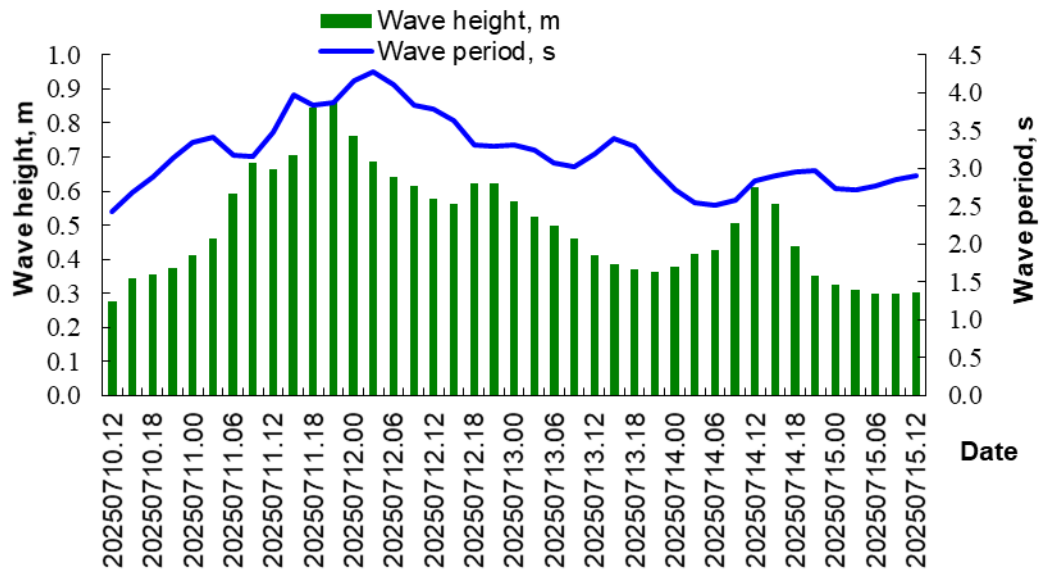


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250710.12	0.38	N	2.3	4	S
20250710.15	0.43	N	2.6	4	E
20250710.18	0.44	N	2.9	6	NW
20250710.21	0.45	NW	3.3	4	N
20250711.00	0.48	NW	3.6	2	SW
20250711.03	0.51	W	3.7	5	E
20250711.06	0.61	W	3.3	6	SE
20250711.09	0.70	NW	3.3	5	S
20250711.12	0.76	NW	3.8	2	W
20250711.15	0.82	NW	4.2	4	NW
20250711.18	0.82	W	4.3	6	W
20250711.21	0.77	W	4.3	4	SW
20250712.00	0.71	W	4.3	3	SE
20250712.03	0.65	W	4.3	4	SE
20250712.06	0.60	W	4.1	4	SE
20250712.09	0.59	W	3.7	3	SE
20250712.12	0.56	W	3.7	5	W
20250712.15	0.55	SW	3.5	6	NW
20250712.18	0.61	S	3.2	7	NW
20250712.21	0.63	SE	3.3	5	N
20250713.00	0.58	SE	3.5	3	SW
20250713.03	0.51	S	3.6	4	S
20250713.06	0.47	S	3.4	4	E
20250713.09	0.45	S	3.3	3	E
20250713.12	0.41	S	3.3	0	S
20250713.15	0.39	SW	3.4	2	SE
20250713.18	0.38	SW	3.2	3	S
20250713.21	0.40	SW	2.7	4	S
20250714.00	0.41	SW	2.5	5	E
20250714.03	0.38	SW	2.5	4	SE
20250714.06	0.37	W	2.5	3	SE
20250714.09	0.41	W	2.6	2	SE
20250714.12	0.47	W	2.8	1	W
20250714.15	0.42	W	2.8	2	N
20250714.18	0.35	W	2.7	3	SW
20250714.21	0.31	W	2.6	2	SW
20250715.00	0.28	W	2.6	2	S
20250715.03	0.27	W	2.5	1	E
20250715.06	0.29	W	2.4	0	W
20250715.09	0.29	W	2.5	1	NW
20250715.12	0.29	SW	2.7	2	NW

Wind condition in the Peschanyi

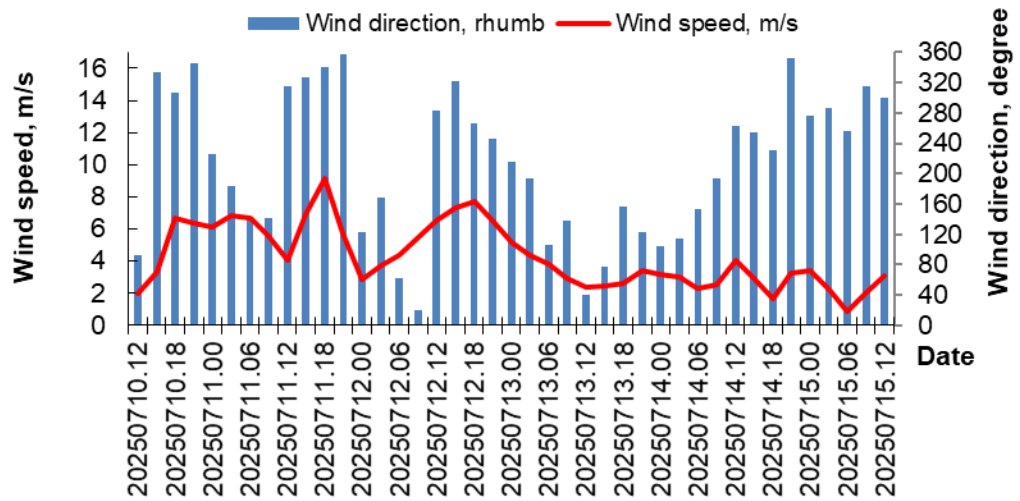


Wave condition in the Peschanyi

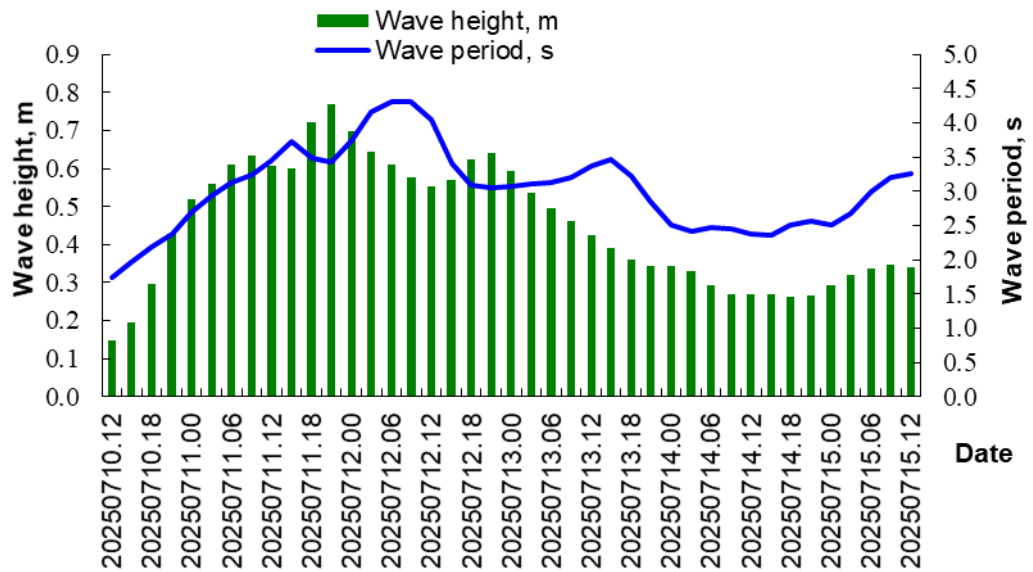


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250710.12	0.28	N	2.4	1	SE
20250710.15	0.34	N	2.7	2	NW
20250710.18	0.36	N	2.9	5	NW
20250710.21	0.37	NW	3.1	4	N
20250711.00	0.41	NW	3.3	2	SW
20250711.03	0.46	W	3.4	5	SE
20250711.06	0.59	W	3.2	8	SE
20250711.09	0.68	NW	3.2	6	SE
20250711.12	0.66	W	3.5	4	NW
20250711.15	0.71	W	4.0	6	N
20250711.18	0.84	W	3.8	9	W
20250711.21	0.86	SW	3.9	6	W
20250712.00	0.76	W	4.2	3	SW
20250712.03	0.69	W	4.3	4	SW
20250712.06	0.64	W	4.1	3	E
20250712.09	0.62	W	3.8	3	NE
20250712.12	0.58	W	3.8	6	N
20250712.15	0.56	SW	3.6	6	NW
20250712.18	0.62	S	3.3	6	N
20250712.21	0.62	S	3.3	6	W
20250713.00	0.57	S	3.3	5	SW
20250713.03	0.53	S	3.3	5	S
20250713.06	0.50	SW	3.1	6	SE
20250713.09	0.46	SW	3.0	4	SE
20250713.12	0.41	SW	3.2	1	NE
20250713.15	0.38	SW	3.4	1	E
20250713.18	0.37	SW	3.3	1	E
20250713.21	0.36	SW	3.0	3	SE
20250714.00	0.38	SW	2.7	4	SW
20250714.03	0.42	SW	2.6	5	S
20250714.06	0.43	W	2.5	6	SE
20250714.09	0.51	W	2.6	5	E
20250714.12	0.61	W	2.8	6	SW
20250714.15	0.56	W	2.9	4	SW
20250714.18	0.44	W	3.0	2	SW
20250714.21	0.35	W	3.0	2	SW
20250715.00	0.33	W	2.7	1	SE
20250715.03	0.31	SW	2.7	1	N
20250715.06	0.30	SW	2.8	3	N
20250715.09	0.30	SW	2.9	3	W
20250715.12	0.30	SW	2.9	2	NW

Wind condition in the Fetisovo

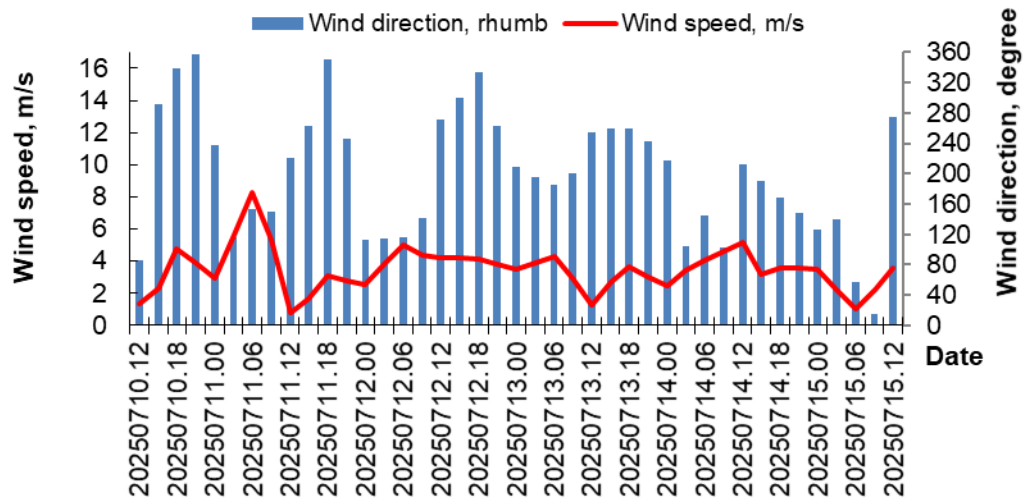


Wave condition in the Fetisovo

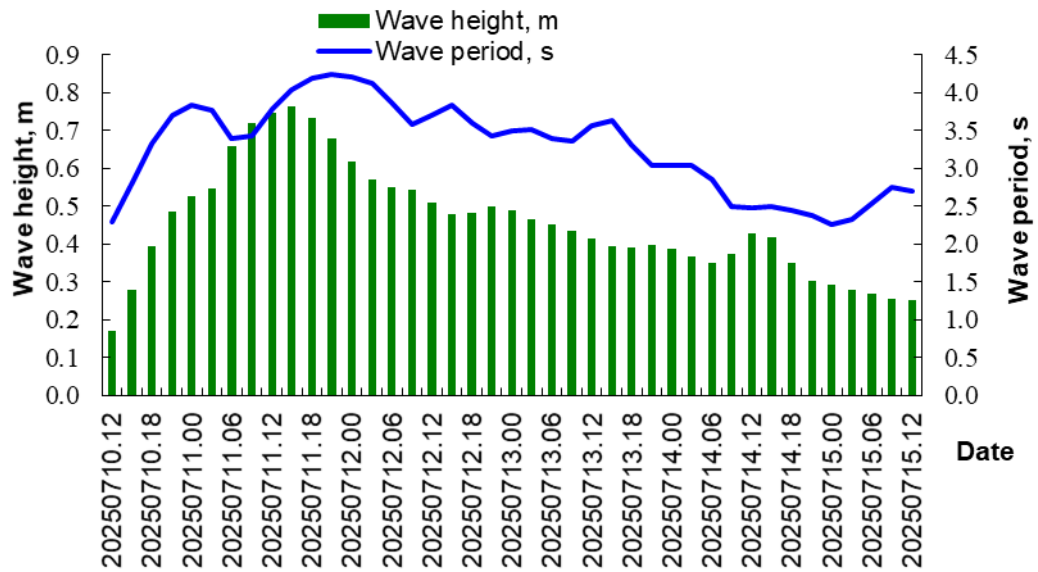


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250710.12	0.15	NW	1.7	2	E
20250710.15	0.20	NW	2.0	3	NW
20250710.18	0.29	NE	2.2	7	NW
20250710.21	0.43	S	2.4	6	N
20250711.00	0.52	S	2.7	6	SW
20250711.03	0.56	SW	2.9	7	S
20250711.06	0.61	SW	3.1	7	SE
20250711.09	0.64	W	3.2	6	SE
20250711.12	0.61	W	3.4	4	NW
20250711.15	0.60	W	3.7	7	NW
20250711.18	0.72	SW	3.5	9	N
20250711.21	0.77	SW	3.4	6	N
20250712.00	0.70	W	3.7	3	SE
20250712.03	0.64	W	4.2	4	S
20250712.06	0.61	W	4.3	4	NE
20250712.09	0.58	W	4.3	5	N
20250712.12	0.55	W	4.0	7	W
20250712.15	0.57	W	3.4	7	NW
20250712.18	0.62	S	3.1	8	W
20250712.21	0.64	S	3.0	6	SW
20250713.00	0.59	S	3.1	5	SW
20250713.03	0.53	SW	3.1	4	S
20250713.06	0.49	SW	3.1	4	E
20250713.09	0.46	SW	3.2	3	SE
20250713.12	0.42	SW	3.4	2	NE
20250713.15	0.39	SW	3.5	2	E
20250713.18	0.36	SW	3.2	3	SE
20250713.21	0.34	SW	2.8	3	SE
20250714.00	0.34	W	2.5	3	E
20250714.03	0.33	W	2.4	3	SE
20250714.06	0.29	W	2.5	2	SE
20250714.09	0.27	W	2.4	3	S
20250714.12	0.27	W	2.4	4	W
20250714.15	0.27	W	2.4	3	W
20250714.18	0.26	W	2.5	2	SW
20250714.21	0.27	W	2.6	3	N
20250715.00	0.29	SW	2.5	3	W
20250715.03	0.32	SW	2.7	2	W
20250715.06	0.34	SW	3.0	1	W
20250715.09	0.35	SW	3.2	2	NW
20250715.12	0.34	SW	3.3	3	NW

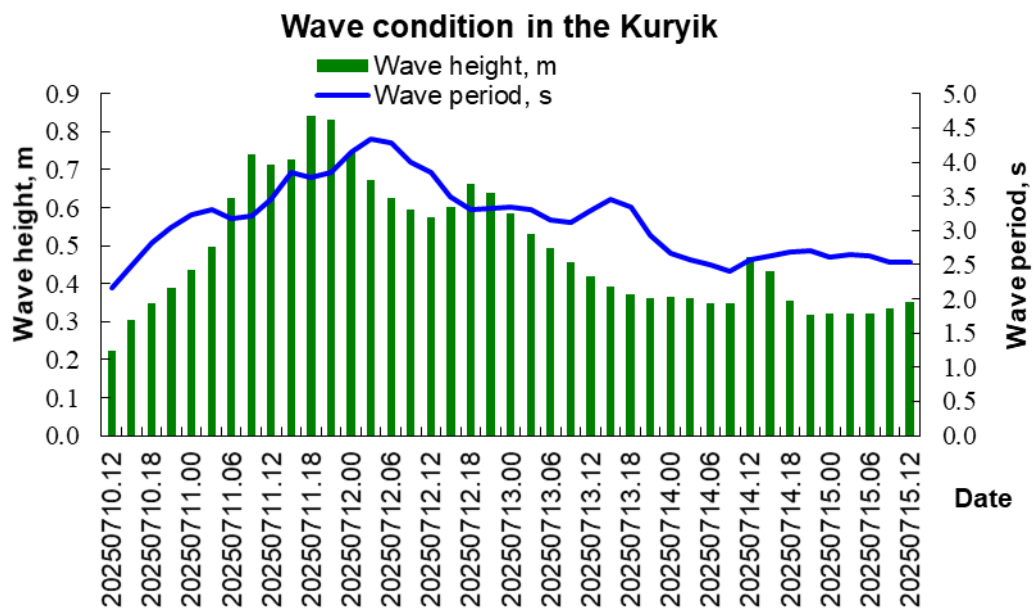
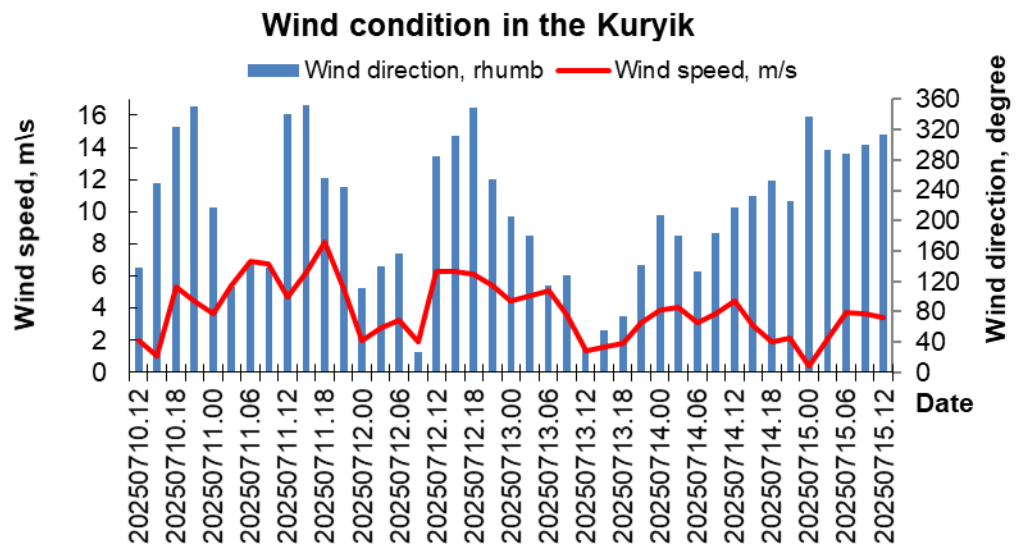
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250710.12	0.17	N	2.3	1	E
20250710.15	0.28	N	2.8	2	W
20250710.18	0.40	NW	3.3	5	N
20250710.21	0.48	NW	3.7	4	N
20250711.00	0.53	W	3.8	3	SW
20250711.03	0.55	W	3.8	6	SE
20250711.06	0.66	NW	3.4	8	SE
20250711.09	0.72	NW	3.4	5	SE
20250711.12	0.75	NW	3.8	1	SW
20250711.15	0.76	NW	4.0	2	W
20250711.18	0.73	NW	4.2	3	N
20250711.21	0.68	NW	4.2	3	SW
20250712.00	0.62	NW	4.2	3	SE
20250712.03	0.57	NW	4.1	4	SE
20250712.06	0.55	W	3.9	5	SE
20250712.09	0.54	W	3.6	4	SE
20250712.12	0.51	W	3.7	4	W
20250712.15	0.48	W	3.8	4	NW
20250712.18	0.48	SW	3.6	4	NW
20250712.21	0.50	S	3.4	4	W
20250713.00	0.49	SE	3.5	3	SW
20250713.03	0.46	SE	3.5	4	S
20250713.06	0.45	S	3.4	4	S
20250713.09	0.44	S	3.4	3	S
20250713.12	0.42	S	3.6	1	W
20250713.15	0.40	S	3.6	3	W
20250713.18	0.39	S	3.3	4	W
20250713.21	0.40	S	3.0	3	SW
20250714.00	0.39	S	3.0	2	SW
20250714.03	0.37	S	3.0	3	E
20250714.06	0.35	SW	2.9	4	SE
20250714.09	0.37	SW	2.5	5	E
20250714.12	0.43	W	2.5	5	SW
20250714.15	0.42	W	2.5	3	S
20250714.18	0.35	W	2.4	4	S
20250714.21	0.30	W	2.4	4	SE
20250715.00	0.29	W	2.3	3	SE
20250715.03	0.28	W	2.3	2	SE
20250715.06	0.27	W	2.5	1	NE
20250715.09	0.26	W	2.7	2	N
20250715.12	0.25	W	2.7	4	W



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250710.12	0.22	N	2.2	2	SE
20250710.15	0.31	N	2.5	1	W
20250710.18	0.35	N	2.8	5	NW
20250710.21	0.39	NW	3.0	4	N
20250711.00	0.44	W	3.2	4	SW
20250711.03	0.50	W	3.3	5	E
20250711.06	0.63	W	3.2	7	SE
20250711.09	0.74	NW	3.2	7	SE
20250711.12	0.71	NW	3.5	5	N
20250711.15	0.73	W	3.9	6	N
20250711.18	0.84	W	3.8	8	W
20250711.21	0.83	W	3.9	5	SW
20250712.00	0.74	W	4.2	2	E
20250712.03	0.67	W	4.3	3	SE
20250712.06	0.62	W	4.3	3	SE
20250712.09	0.59	W	4.0	2	NE
20250712.12	0.57	W	3.9	6	W
20250712.15	0.60	S	3.5	6	NW
20250712.18	0.66	S	3.3	6	N
20250712.21	0.64	S	3.3	5	W
20250713.00	0.58	S	3.3	4	SW
20250713.03	0.53	S	3.3	5	S
20250713.06	0.49	S	3.2	5	SE
20250713.09	0.46	SW	3.1	4	SE
20250713.12	0.42	SW	3.3	1	NE
20250713.15	0.39	SW	3.5	2	NE
20250713.18	0.37	SW	3.3	2	E
20250713.21	0.36	SW	2.9	3	SE
20250714.00	0.36	SW	2.7	4	SW
20250714.03	0.36	SW	2.6	4	S
20250714.06	0.35	W	2.5	3	SE
20250714.09	0.35	W	2.4	4	S
20250714.12	0.47	W	2.6	4	SW
20250714.15	0.43	W	2.6	3	SW
20250714.18	0.36	W	2.7	2	W
20250714.21	0.32	W	2.7	2	SW
20250715.00	0.32	SW	2.6	0	NW
20250715.03	0.32	SW	2.6	2	W
20250715.06	0.32	SW	2.6	4	W
20250715.09	0.34	SW	2.5	4	NW
20250715.12	0.35	S	2.5	3	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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