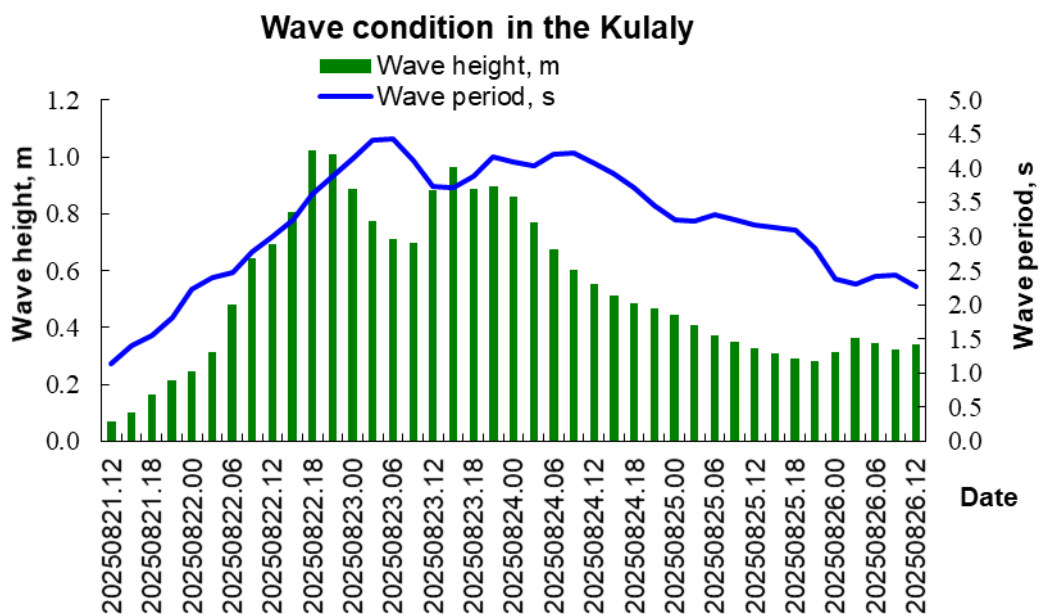
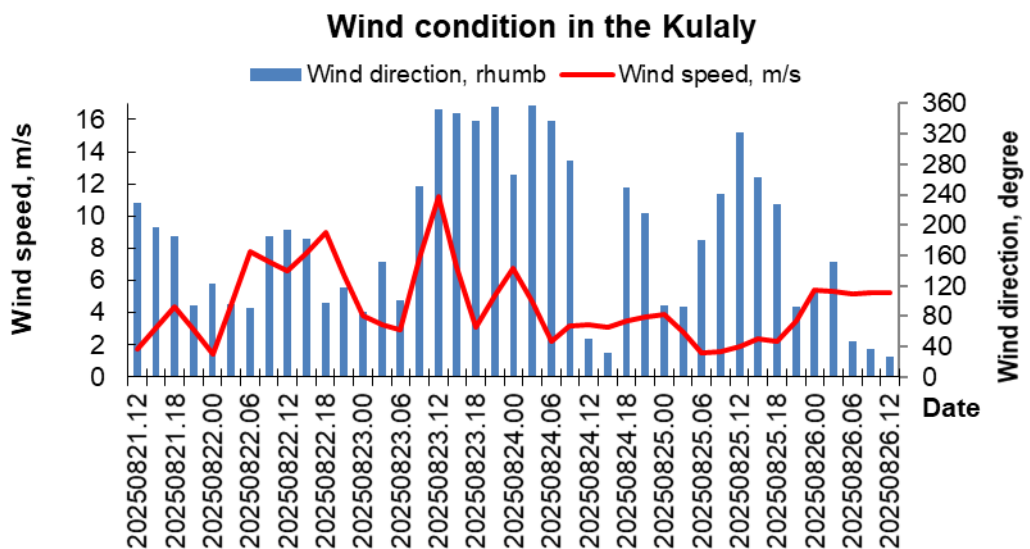




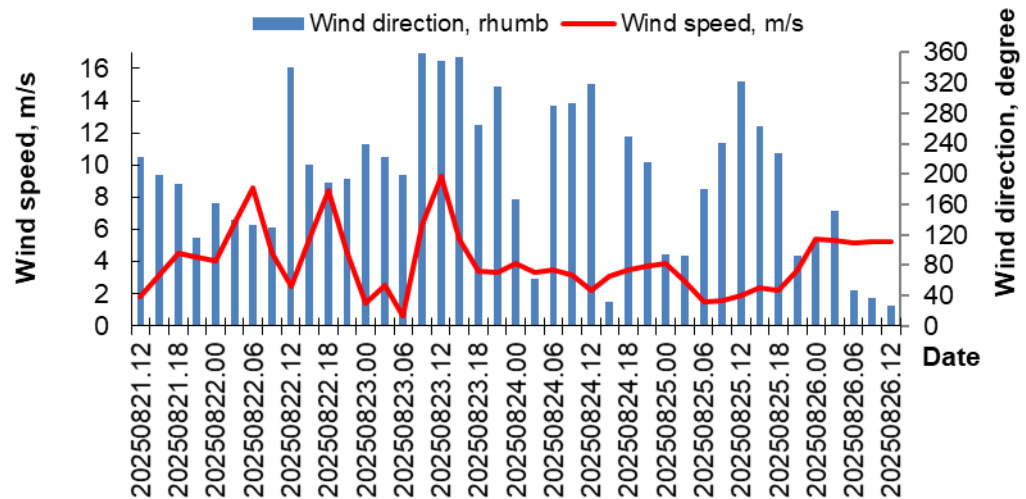
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 21 – 26, 2025.**

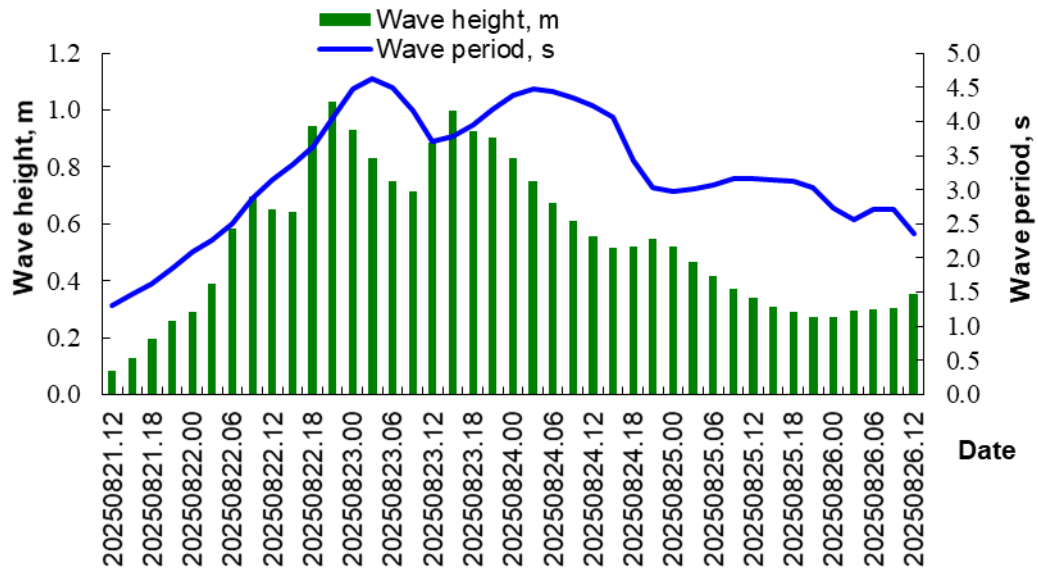


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250821.12	0.07	SW	1.1	2	SW
20250821.15	0.10	SW	1.4	3	S
20250821.18	0.16	SW	1.6	4	S
20250821.21	0.22	SW	1.8	3	E
20250822.00	0.25	W	2.2	1	SE
20250822.03	0.31	W	2.4	4	E
20250822.06	0.48	W	2.5	8	E
20250822.09	0.64	W	2.8	7	S
20250822.12	0.69	W	3.0	7	S
20250822.15	0.80	W	3.2	8	S
20250822.18	1.02	W	3.6	9	E
20250822.21	1.01	W	3.9	6	SE
20250823.00	0.89	SW	4.1	4	E
20250823.03	0.78	SW	4.4	3	SE
20250823.06	0.71	SW	4.4	3	E
20250823.09	0.70	SW	4.1	7	W
20250823.12	0.88	SW	3.7	11	N
20250823.15	0.97	S	3.7	7	N
20250823.18	0.89	SW	3.9	3	N
20250823.21	0.90	SW	4.2	5	N
20250824.00	0.86	SW	4.1	7	W
20250824.03	0.77	SW	4.0	5	N
20250824.06	0.67	SW	4.2	2	N
20250824.09	0.60	SW	4.2	3	W
20250824.12	0.55	SW	4.1	3	NE
20250824.15	0.51	SW	3.9	3	NE
20250824.18	0.49	SW	3.7	4	W
20250824.21	0.47	S	3.5	4	SW
20250825.00	0.44	S	3.3	4	E
20250825.03	0.41	S	3.2	3	E
20250825.06	0.37	S	3.3	2	S
20250825.09	0.35	S	3.2	2	SW
20250825.12	0.33	SW	3.2	2	NW
20250825.15	0.31	SW	3.1	2	W
20250825.18	0.29	SW	3.1	2	SW
20250825.21	0.28	SW	2.8	3	E
20250826.00	0.32	SW	2.4	5	E
20250826.03	0.36	W	2.3	5	SE
20250826.06	0.34	W	2.4	5	NE
20250826.09	0.32	W	2.4	5	NE
20250826.12	0.34	N	2.3	5	NE

Wind condition in the Fort-Shevchenko

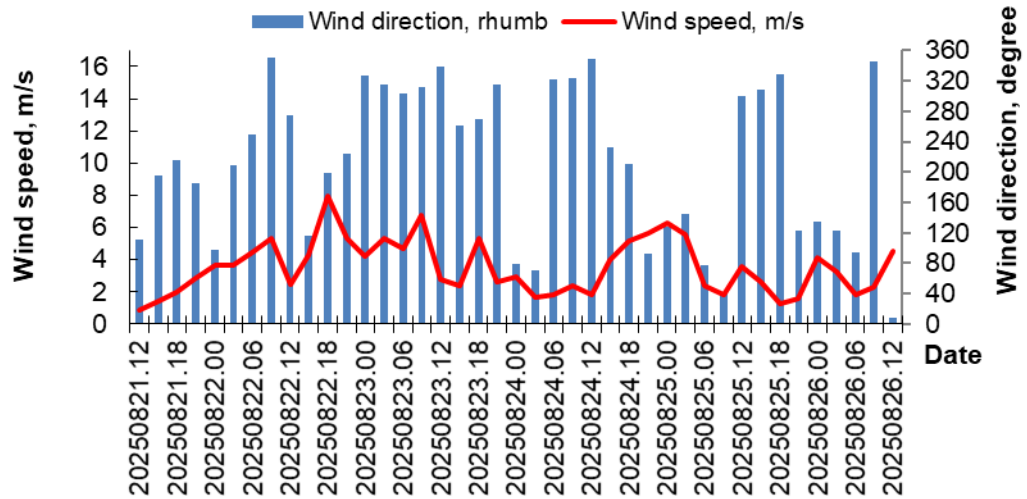


Wave condition in the Fort-Shevchenko

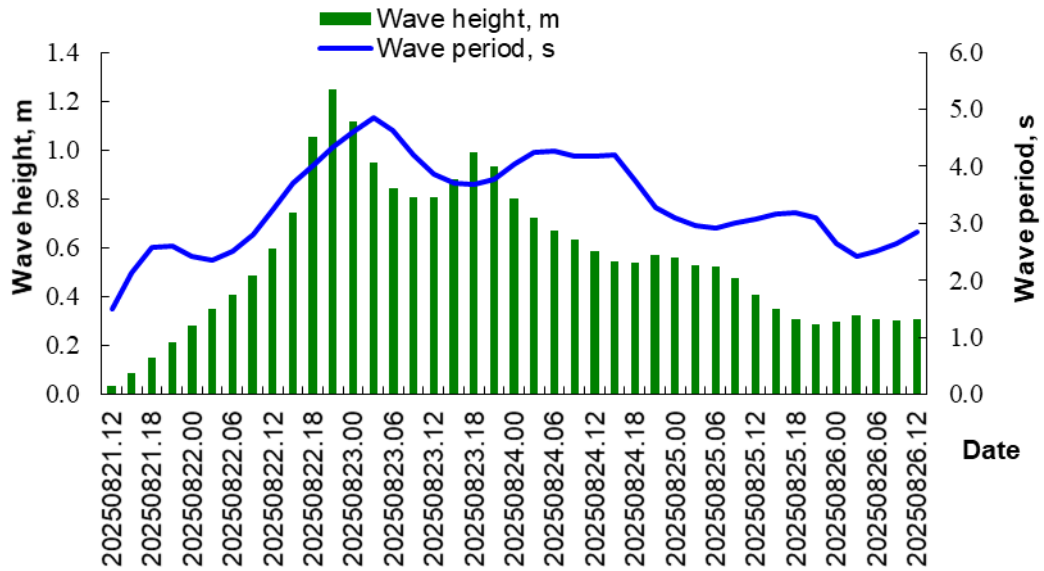


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250821.12	0.08	SW	1.3	2	SW
20250821.15	0.13	SW	1.5	3	S
20250821.18	0.20	SW	1.6	5	S
20250821.21	0.26	W	1.8	4	SE
20250822.00	0.29	W	2.1	4	S
20250822.03	0.39	NW	2.3	6	SE
20250822.06	0.58	NW	2.5	9	SE
20250822.09	0.70	NW	2.9	5	SE
20250822.12	0.65	W	3.1	2	N
20250822.15	0.64	W	3.4	5	SW
20250822.18	0.95	W	3.6	8	S
20250822.21	1.03	SW	4.0	5	S
20250823.00	0.93	SW	4.5	1	SW
20250823.03	0.83	SW	4.6	3	SW
20250823.06	0.75	SW	4.5	1	S
20250823.09	0.71	SW	4.2	6	N
20250823.12	0.88	S	3.7	9	N
20250823.15	1.00	S	3.8	5	N
20250823.18	0.93	S	4.0	3	W
20250823.21	0.90	SW	4.2	3	NW
20250824.00	0.83	SW	4.4	4	S
20250824.03	0.75	SW	4.5	3	NE
20250824.06	0.68	SW	4.4	3	W
20250824.09	0.61	SW	4.4	3	NW
20250824.12	0.56	SW	4.2	2	NW
20250824.15	0.52	SW	4.1	3	NE
20250824.18	0.52	SW	3.4	4	W
20250824.21	0.55	SW	3.0	4	SW
20250825.00	0.52	SW	3.0	4	E
20250825.03	0.47	SW	3.0	3	E
20250825.06	0.41	SW	3.1	2	S
20250825.09	0.37	SW	3.2	2	SW
20250825.12	0.34	SW	3.2	2	NW
20250825.15	0.31	SW	3.1	2	W
20250825.18	0.29	SW	3.1	2	SW
20250825.21	0.27	SW	3.0	3	E
20250826.00	0.27	SW	2.7	5	E
20250826.03	0.29	W	2.6	5	SE
20250826.06	0.30	W	2.7	5	NE
20250826.09	0.30	W	2.7	5	NE
20250826.12	0.35	E	2.4	5	NE

Wind condition in the Aktau

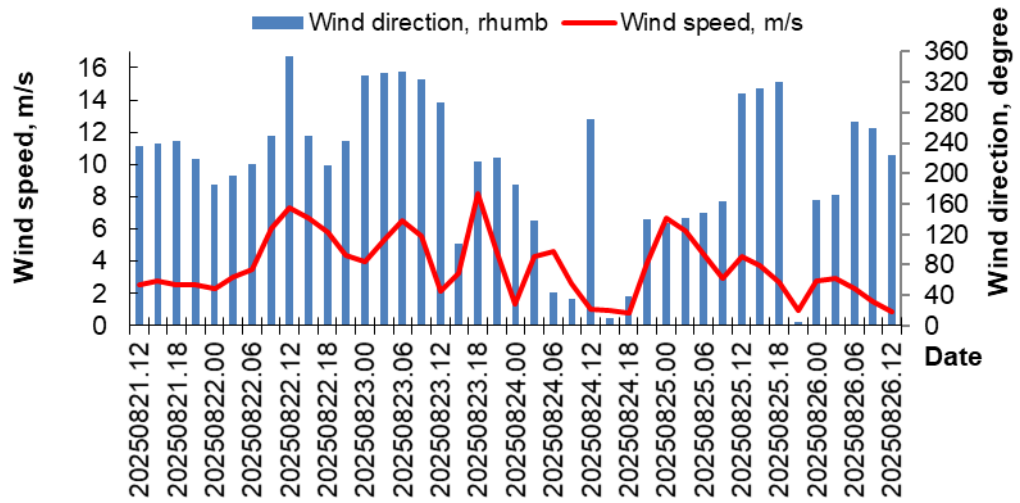


Wave condition in the Aktau

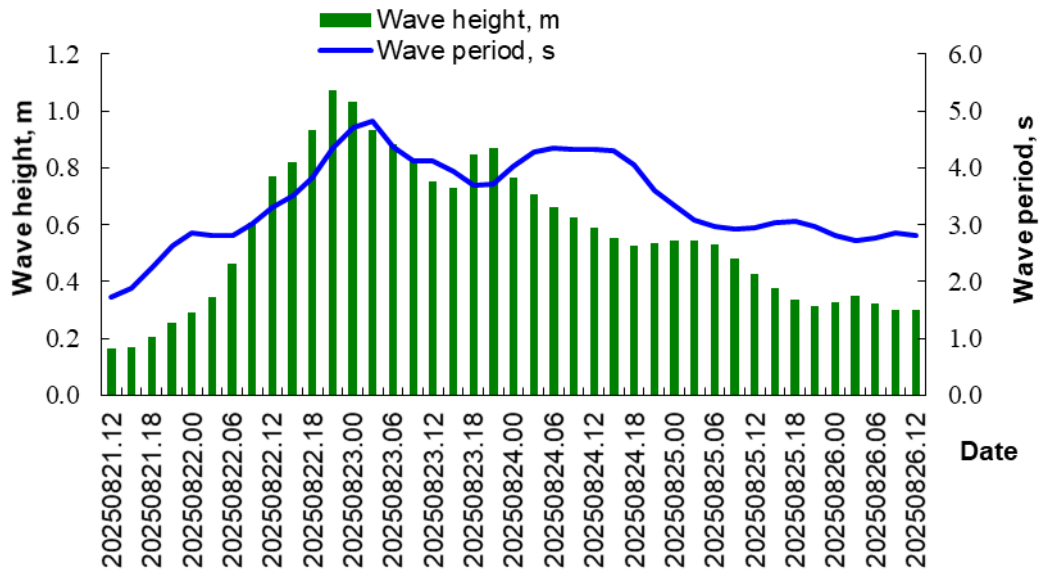


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250821.12	0.03	NW	1.5	1	E
20250821.15	0.08	SW	2.1	1	S
20250821.18	0.15	S	2.6	2	SW
20250821.21	0.21	S	2.6	3	S
20250822.00	0.28	S	2.4	4	E
20250822.03	0.35	SW	2.3	4	SW
20250822.06	0.41	S	2.5	4	W
20250822.09	0.48	S	2.8	5	N
20250822.12	0.60	S	3.2	3	W
20250822.15	0.74	S	3.7	4	SE
20250822.18	1.05	SW	4.0	8	S
20250822.21	1.25	SW	4.3	5	SW
20250823.00	1.12	SW	4.6	4	NW
20250823.03	0.95	SW	4.9	5	NW
20250823.06	0.84	SW	4.6	5	NW
20250823.09	0.81	SW	4.2	7	NW
20250823.12	0.81	S	3.9	3	N
20250823.15	0.88	S	3.7	2	W
20250823.18	0.99	S	3.7	5	W
20250823.21	0.93	SW	3.8	3	NW
20250824.00	0.80	SW	4.0	3	E
20250824.03	0.72	SW	4.3	2	E
20250824.06	0.67	SW	4.3	2	NW
20250824.09	0.63	SW	4.2	2	NW
20250824.12	0.59	SW	4.2	2	N
20250824.15	0.55	SW	4.2	4	SW
20250824.18	0.54	SW	3.7	5	SW
20250824.21	0.57	SW	3.3	6	E
20250825.00	0.56	SW	3.1	6	SE
20250825.03	0.53	W	3.0	6	SE
20250825.06	0.52	W	2.9	2	E
20250825.09	0.48	W	3.0	2	NE
20250825.12	0.41	W	3.1	4	NW
20250825.15	0.35	W	3.2	3	NW
20250825.18	0.31	W	3.2	1	NW
20250825.21	0.28	W	3.1	2	SE
20250826.00	0.30	W	2.6	4	SE
20250826.03	0.32	W	2.4	3	SE
20250826.06	0.31	W	2.5	2	E
20250826.09	0.30	W	2.6	2	N
20250826.12	0.31	W	2.8	4	N

Wind condition in the Peschanyi

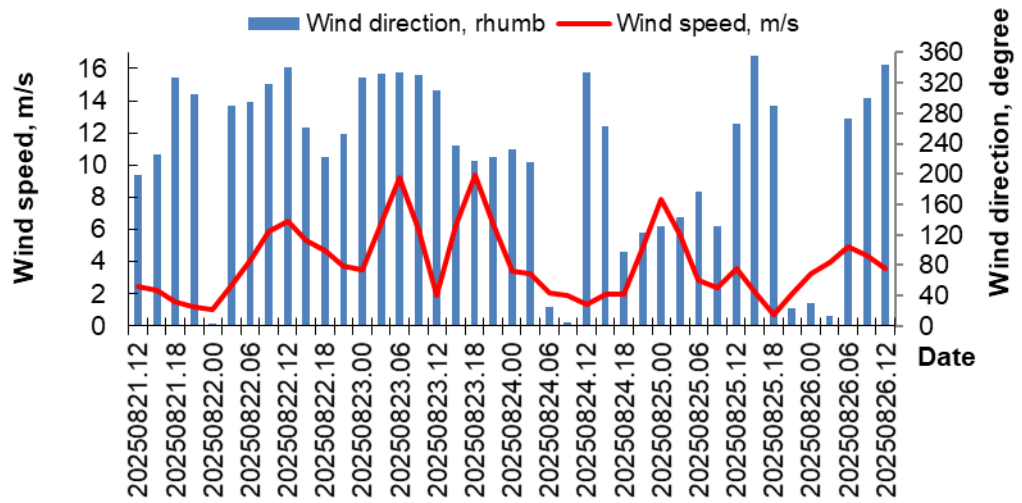


Wave condition in the Peschanyi

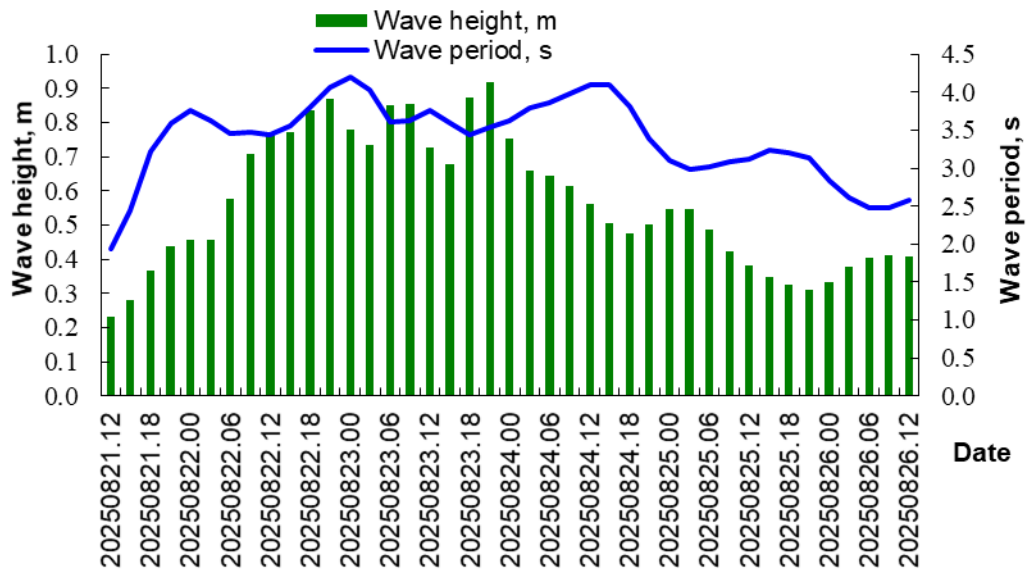


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250821.12	0.17	SW	1.7	3	SW
20250821.15	0.17	S	1.9	3	SW
20250821.18	0.21	S	2.3	3	SW
20250821.21	0.25	S	2.6	3	SW
20250822.00	0.29	S	2.9	2	S
20250822.03	0.35	S	2.8	3	S
20250822.06	0.46	S	2.8	3	SW
20250822.09	0.61	S	3.0	6	W
20250822.12	0.77	S	3.3	7	N
20250822.15	0.82	S	3.5	7	W
20250822.18	0.93	SW	3.8	6	SW
20250822.21	1.07	SW	4.3	4	SW
20250823.00	1.03	SW	4.7	4	NW
20250823.03	0.93	SW	4.8	5	NW
20250823.06	0.88	SW	4.4	7	NW
20250823.09	0.83	SW	4.1	6	NW
20250823.12	0.75	SW	4.1	2	W
20250823.15	0.73	SW	3.9	3	E
20250823.18	0.85	SW	3.7	8	SW
20250823.21	0.87	SW	3.7	5	SW
20250824.00	0.77	SW	4.0	1	S
20250824.03	0.71	SW	4.3	4	SE
20250824.06	0.66	SW	4.4	5	NE
20250824.09	0.62	SW	4.3	3	NE
20250824.12	0.59	SW	4.3	1	W
20250824.15	0.55	SW	4.3	1	N
20250824.18	0.53	SW	4.0	1	NE
20250824.21	0.54	SW	3.6	4	SE
20250825.00	0.54	SW	3.3	7	SE
20250825.03	0.54	W	3.1	6	SE
20250825.06	0.53	W	3.0	4	SE
20250825.09	0.48	W	2.9	3	S
20250825.12	0.42	W	3.0	4	NW
20250825.15	0.38	W	3.0	4	NW
20250825.18	0.34	W	3.1	3	NW
20250825.21	0.31	W	3.0	1	N
20250826.00	0.33	W	2.8	3	S
20250826.03	0.35	W	2.7	3	S
20250826.06	0.32	W	2.8	2	W
20250826.09	0.30	W	2.9	2	W
20250826.12	0.30	W	2.8	1	SW

Wind condition in the Fetisovo

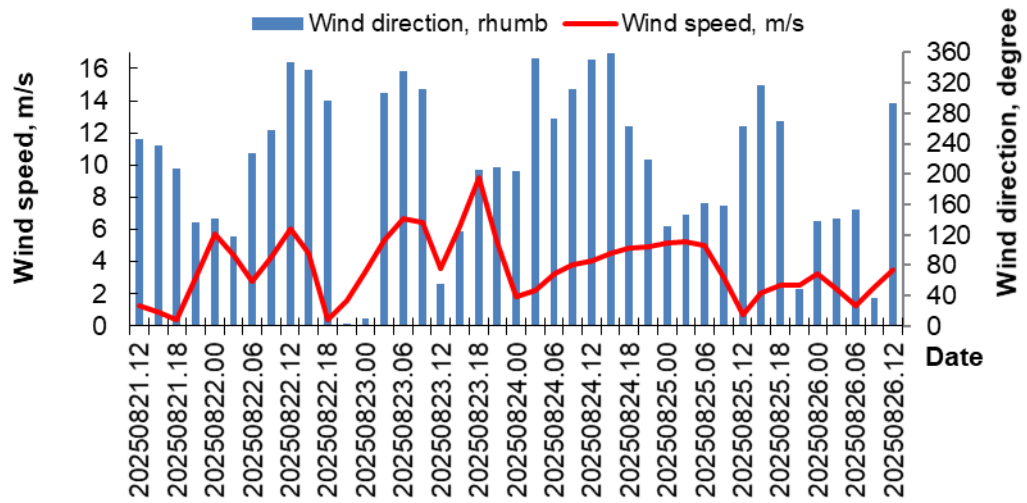


Wave condition in the Fetisovo

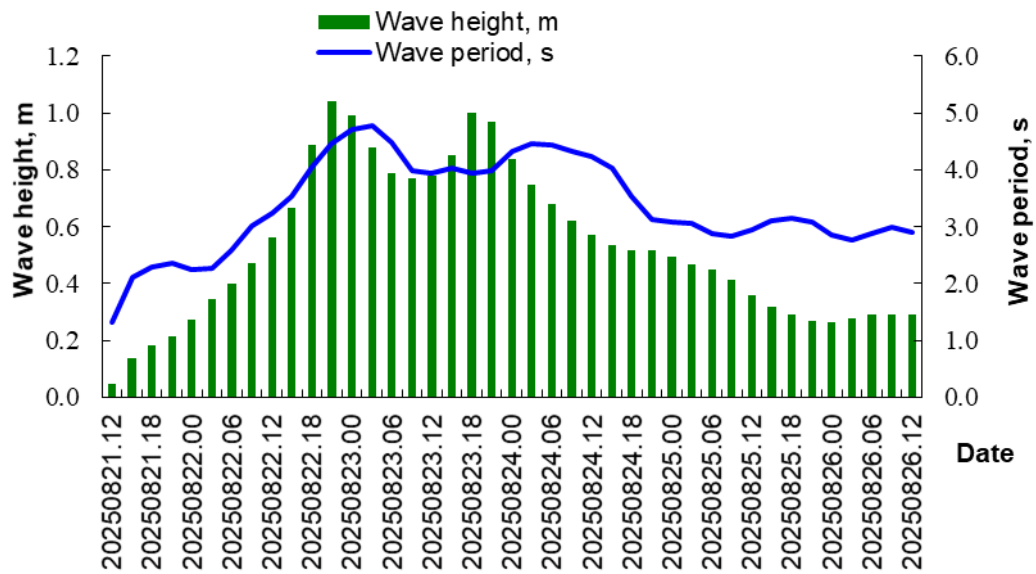


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250821.12	0.23	W	1.9	2	S
20250821.15	0.28	SW	2.4	2	SW
20250821.18	0.37	S	3.2	2	NW
20250821.21	0.44	S	3.6	1	NW
20250822.00	0.46	S	3.8	1	N
20250822.03	0.46	S	3.6	3	W
20250822.06	0.58	S	3.5	4	NW
20250822.09	0.71	S	3.5	6	NW
20250822.12	0.77	S	3.4	6	N
20250822.15	0.77	S	3.6	5	W
20250822.18	0.84	S	3.8	5	SW
20250822.21	0.87	SW	4.1	4	W
20250823.00	0.78	SW	4.2	4	NW
20250823.03	0.73	SW	4.0	6	NW
20250823.06	0.85	SW	3.6	9	NW
20250823.09	0.85	S	3.6	6	NW
20250823.12	0.73	SW	3.8	2	NW
20250823.15	0.68	SW	3.6	6	SW
20250823.18	0.87	SW	3.4	9	SW
20250823.21	0.92	SW	3.5	6	SW
20250824.00	0.75	SW	3.6	3	SW
20250824.03	0.66	SW	3.8	3	SW
20250824.06	0.64	SW	3.9	2	NE
20250824.09	0.61	SW	4.0	2	N
20250824.12	0.56	SW	4.1	1	NW
20250824.15	0.51	SW	4.1	2	W
20250824.18	0.47	SW	3.8	2	E
20250824.21	0.50	SW	3.4	5	SE
20250825.00	0.55	W	3.1	8	SE
20250825.03	0.55	W	3.0	6	SE
20250825.06	0.49	W	3.0	3	S
20250825.09	0.42	W	3.1	2	SE
20250825.12	0.38	W	3.1	4	W
20250825.15	0.35	W	3.2	2	N
20250825.18	0.33	W	3.2	1	W
20250825.21	0.31	W	3.1	2	NE
20250826.00	0.33	W	2.8	3	NE
20250826.03	0.38	NW	2.6	4	N
20250826.06	0.40	NW	2.5	5	W
20250826.09	0.41	NE	2.5	4	NW
20250826.12	0.41	SE	2.6	4	N

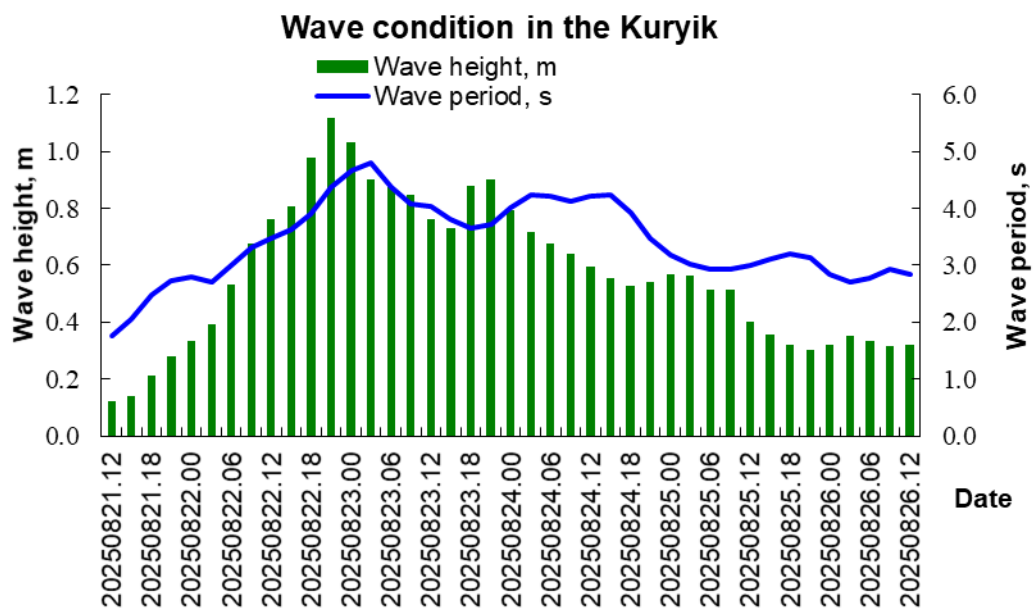
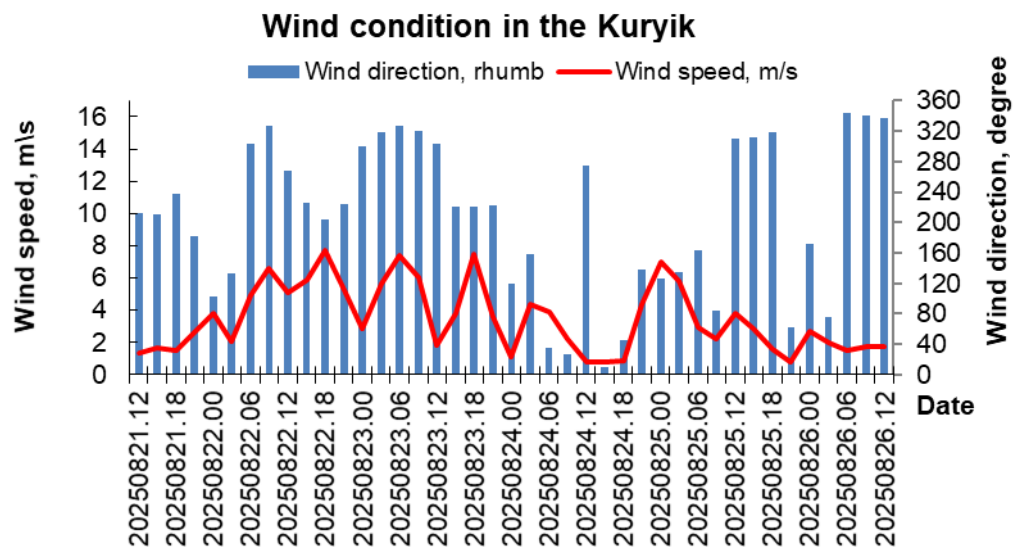
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250821.12	0.05	S	1.3	1	SW
20250821.15	0.14	S	2.1	1	SW
20250821.18	0.18	S	2.3	0	SW
20250821.21	0.21	S	2.4	3	SE
20250822.00	0.27	SW	2.2	6	SE
20250822.03	0.34	W	2.3	4	SE
20250822.06	0.40	W	2.6	3	SW
20250822.09	0.47	W	3.0	4	W
20250822.12	0.56	W	3.2	6	N
20250822.15	0.67	SW	3.5	5	NW
20250822.18	0.89	SW	4.1	0	NW
20250822.21	1.04	SW	4.5	2	N
20250823.00	0.99	SW	4.7	3	N
20250823.03	0.88	SW	4.8	5	NW
20250823.06	0.79	SW	4.5	7	NW
20250823.09	0.77	SW	4.0	6	NW
20250823.12	0.78	S	3.9	4	NE
20250823.15	0.85	S	4.0	6	SE
20250823.18	1.00	SW	3.9	9	SW
20250823.21	0.97	SW	4.0	5	SW
20250824.00	0.84	SW	4.3	2	SW
20250824.03	0.75	SW	4.5	2	N
20250824.06	0.68	SW	4.4	3	W
20250824.09	0.62	SW	4.3	4	NW
20250824.12	0.57	SW	4.2	4	N
20250824.15	0.53	SW	4.0	5	N
20250824.18	0.52	SW	3.5	5	W
20250824.21	0.52	SW	3.1	5	SW
20250825.00	0.50	SW	3.1	5	SE
20250825.03	0.47	SW	3.0	5	SE
20250825.06	0.45	SW	2.9	5	S
20250825.09	0.41	SW	2.8	3	S
20250825.12	0.36	SW	2.9	1	W
20250825.15	0.32	SW	3.1	2	NW
20250825.18	0.29	SW	3.1	3	W
20250825.21	0.27	SW	3.1	3	NE
20250826.00	0.26	SW	2.9	3	SE
20250826.03	0.28	W	2.8	2	SE
20250826.06	0.29	W	2.9	1	SE
20250826.09	0.29	W	3.0	3	NE
20250826.12	0.29	W	2.9	4	NW



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250821.12	0.12	SW	1.8	1	SW
20250821.15	0.14	S	2.1	2	SW
20250821.18	0.21	S	2.5	2	SW
20250821.21	0.28	S	2.7	3	S
20250822.00	0.33	S	2.8	4	E
20250822.03	0.39	S	2.7	2	SE
20250822.06	0.53	S	3.0	5	NW
20250822.09	0.67	S	3.3	7	NW
20250822.12	0.76	S	3.5	5	W
20250822.15	0.81	S	3.6	6	SW
20250822.18	0.98	SW	3.9	8	SW
20250822.21	1.12	SW	4.4	5	SW
20250823.00	1.03	SW	4.7	3	NW
20250823.03	0.90	SW	4.8	6	NW
20250823.06	0.87	SW	4.4	7	NW
20250823.09	0.85	SW	4.1	6	NW
20250823.12	0.76	SW	4.0	2	NW
20250823.15	0.73	S	3.8	4	SW
20250823.18	0.88	SW	3.6	7	SW
20250823.21	0.90	SW	3.7	4	SW
20250824.00	0.79	SW	4.0	1	SE
20250824.03	0.72	SW	4.2	4	S
20250824.06	0.67	SW	4.2	4	NE
20250824.09	0.64	SW	4.1	2	NE
20250824.12	0.60	SW	4.2	1	W
20250824.15	0.55	SW	4.2	1	N
20250824.18	0.53	SW	3.9	1	NE
20250824.21	0.54	SW	3.5	4	SE
20250825.00	0.57	SW	3.2	7	SE
20250825.03	0.56	W	3.0	6	SE
20250825.06	0.51	W	2.9	3	S
20250825.09	0.51	W	2.9	2	E
20250825.12	0.40	W	3.0	4	NW
20250825.15	0.36	W	3.1	3	NW
20250825.18	0.32	W	3.2	2	NW
20250825.21	0.30	W	3.1	1	NE
20250826.00	0.32	W	2.8	3	S
20250826.03	0.35	NW	2.7	2	E
20250826.06	0.33	NW	2.8	2	N
20250826.09	0.32	W	2.9	2	N
20250826.12	0.32	W	2.8	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.

Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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