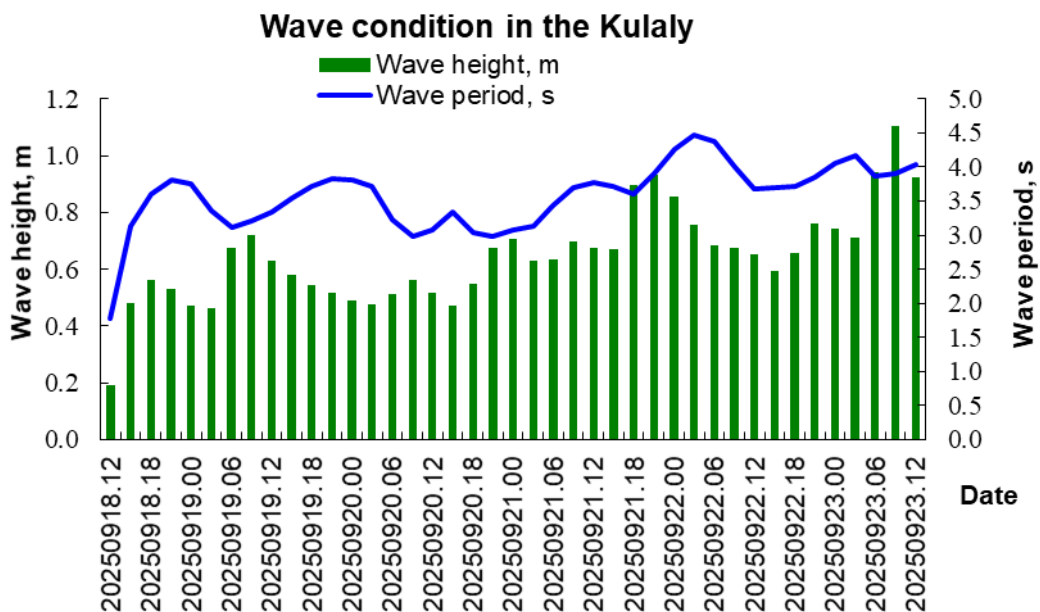
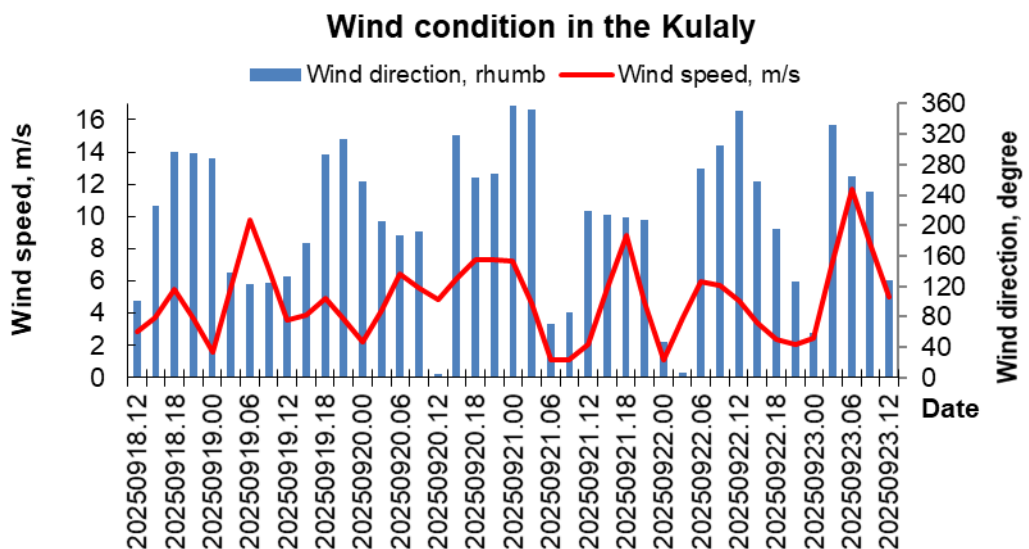




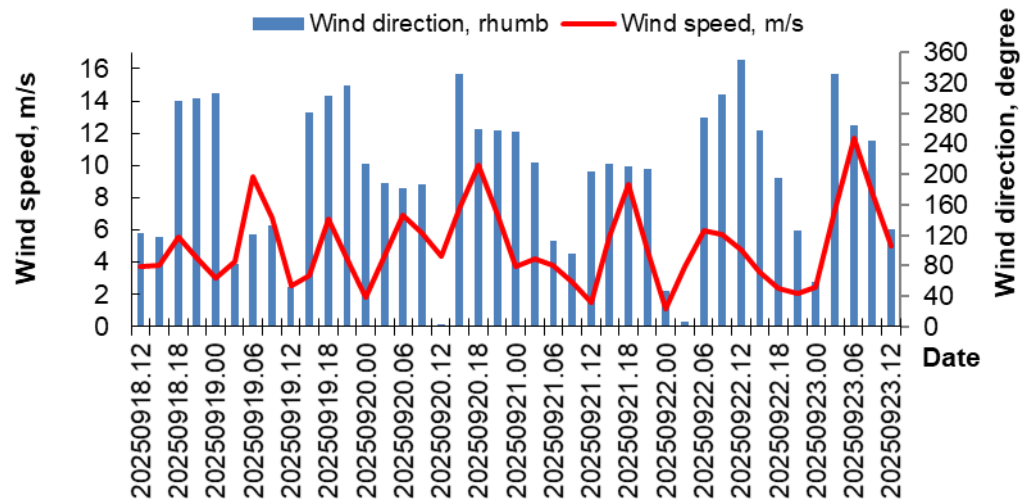
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period September 18 – 23, 2025.**

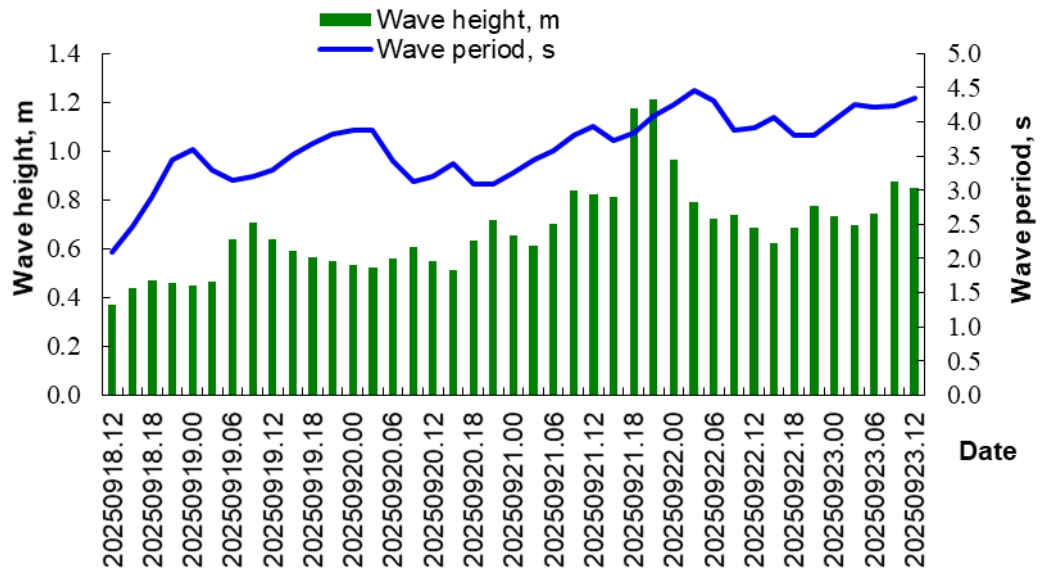


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250918.12	0.19	W	1.8	3	E
20250918.15	0.48	NW	3.1	4	SW
20250918.18	0.56	NW	3.6	5	NW
20250918.21	0.53	NW	3.8	4	NW
20250919.00	0.47	NW	3.8	2	W
20250919.03	0.46	NW	3.4	6	SE
20250919.06	0.67	NW	3.1	10	SE
20250919.09	0.72	NW	3.2	7	SE
20250919.12	0.63	NW	3.3	4	SE
20250919.15	0.58	NW	3.6	4	S
20250919.18	0.55	NW	3.7	5	NW
20250919.21	0.52	NW	3.8	4	NW
20250920.00	0.49	NW	3.8	2	W
20250920.03	0.48	NW	3.7	4	SW
20250920.06	0.51	W	3.2	6	S
20250920.09	0.56	W	3.0	6	S
20250920.12	0.52	W	3.1	5	N
20250920.15	0.47	SW	3.3	6	NW
20250920.18	0.55	S	3.0	7	W
20250920.21	0.68	S	3.0	7	W
20250921.00	0.71	S	3.1	7	N
20250921.03	0.63	S	3.1	5	N
20250921.06	0.64	SW	3.4	1	E
20250921.09	0.70	SW	3.7	1	E
20250921.12	0.68	SW	3.8	2	SW
20250921.15	0.67	SW	3.7	6	SW
20250921.18	0.90	SW	3.6	9	SW
20250921.21	0.93	SW	3.9	5	SW
20250922.00	0.86	SW	4.3	1	NE
20250922.03	0.76	SW	4.5	4	N
20250922.06	0.68	SW	4.4	6	W
20250922.09	0.68	S	4.0	6	NW
20250922.12	0.65	S	3.7	5	N
20250922.15	0.59	S	3.7	3	W
20250922.18	0.66	SW	3.7	2	S
20250922.21	0.76	SW	3.9	2	SE
20250923.00	0.74	SW	4.1	2	NE
20250923.03	0.71	SW	4.2	7	NW
20250923.06	0.94	SW	3.9	12	W
20250923.09	1.11	SW	3.9	8	SW
20250923.12	0.92	SW	4.0	5	SE

Wind condition in the Fort-Shevchenko

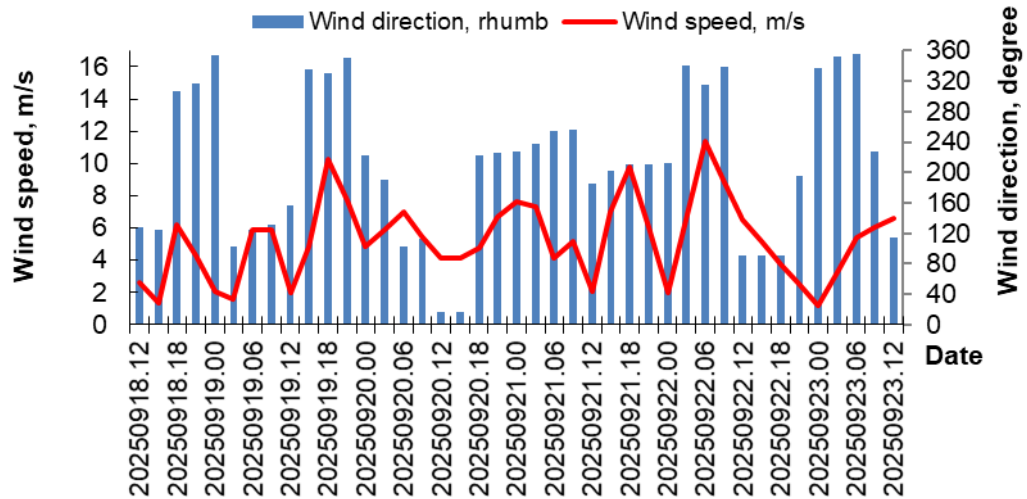


Wave condition in the Fort-Shevchenko

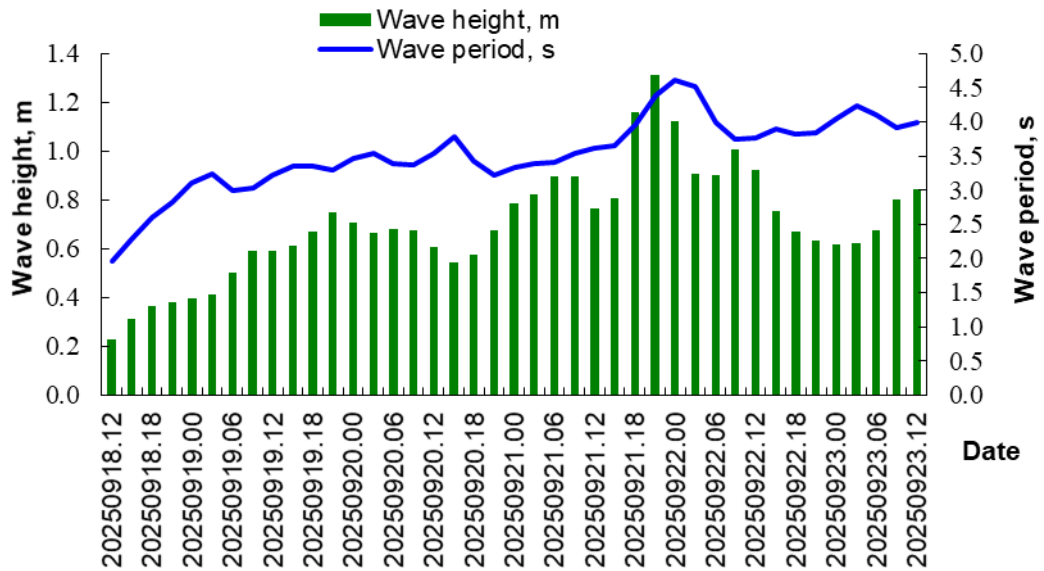


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250918.12	0.37	NW	2.1	4	SE
20250918.15	0.44	NW	2.5	4	SE
20250918.18	0.47	NW	2.9	6	NW
20250918.21	0.46	NW	3.4	4	NW
20250919.00	0.45	NW	3.6	3	NW
20250919.03	0.46	NW	3.3	4	E
20250919.06	0.64	NW	3.1	9	SE
20250919.09	0.70	NW	3.2	7	SE
20250919.12	0.64	NW	3.3	3	NE
20250919.15	0.59	NW	3.5	3	W
20250919.18	0.56	NW	3.7	7	NW
20250919.21	0.55	NW	3.8	4	NW
20250920.00	0.53	NW	3.9	2	SW
20250920.03	0.52	NW	3.9	4	S
20250920.06	0.56	W	3.4	7	S
20250920.09	0.61	W	3.1	6	S
20250920.12	0.55	W	3.2	4	N
20250920.15	0.51	SW	3.4	7	NW
20250920.18	0.63	S	3.1	10	W
20250920.21	0.72	S	3.1	7	W
20250921.00	0.65	S	3.3	4	W
20250921.03	0.61	S	3.4	4	SW
20250921.06	0.70	SW	3.6	4	SE
20250921.09	0.84	SW	3.8	3	E
20250921.12	0.82	SW	3.9	2	SW
20250921.15	0.81	SW	3.7	6	SW
20250921.18	1.17	SW	3.8	9	SW
20250921.21	1.21	SW	4.1	5	SW
20250922.00	0.96	SW	4.2	1	NE
20250922.03	0.79	SW	4.5	4	N
20250922.06	0.72	SW	4.3	6	W
20250922.09	0.74	S	3.9	6	NW
20250922.12	0.68	S	3.9	5	N
20250922.15	0.62	S	4.1	3	W
20250922.18	0.68	SW	3.8	2	S
20250922.21	0.77	SW	3.8	2	SE
20250923.00	0.74	SW	4.0	2	NE
20250923.03	0.70	SW	4.3	7	NW
20250923.06	0.75	SW	4.2	12	W
20250923.09	0.88	SW	4.2	8	SW
20250923.12	0.85	SW	4.3	5	SE

Wind condition in the Aktau

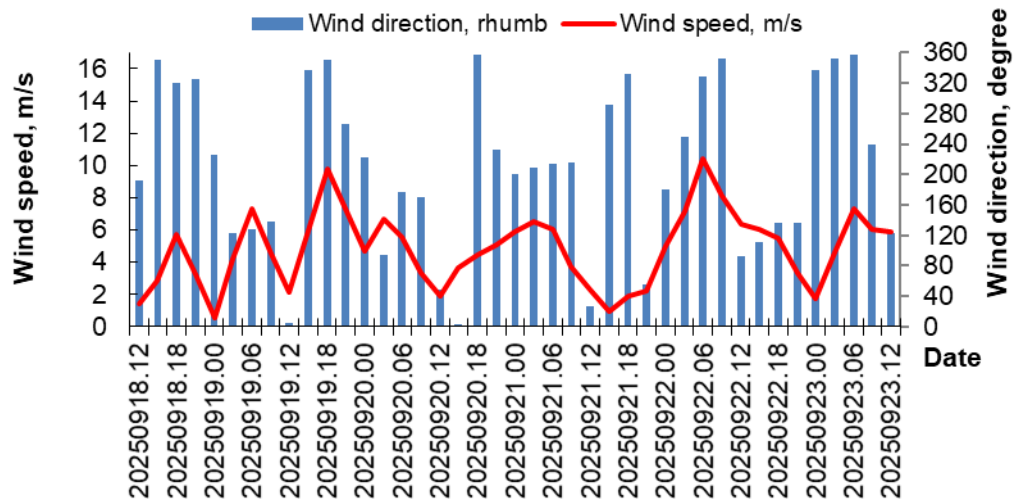


Wave condition in the Aktau

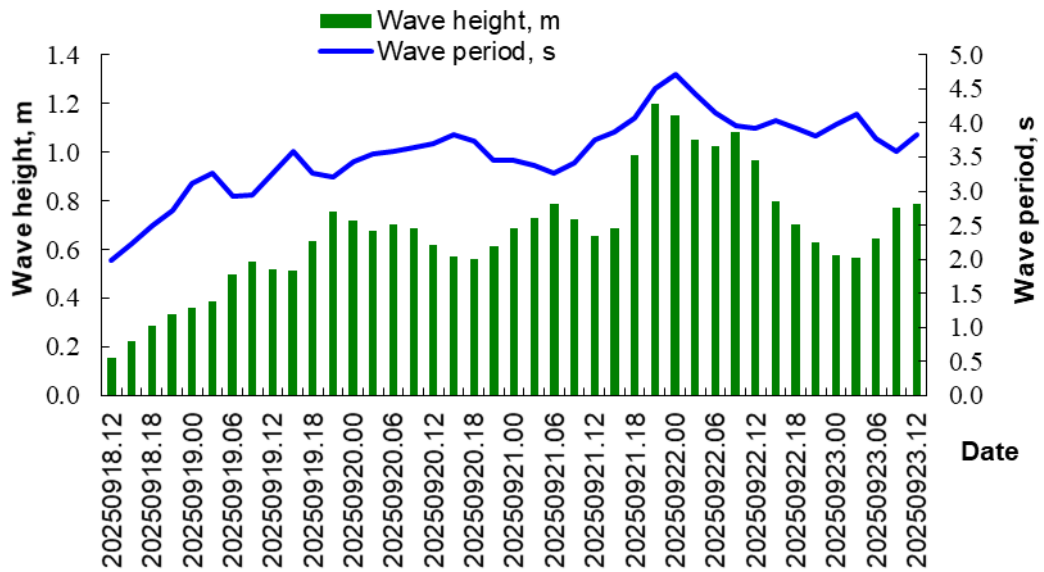


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250918.12	0.23	NW	2.0	3	SE
20250918.15	0.31	NW	2.3	1	SE
20250918.18	0.36	W	2.6	6	NW
20250918.21	0.38	W	2.8	4	NW
20250919.00	0.40	NW	3.1	2	N
20250919.03	0.41	NW	3.2	2	E
20250919.06	0.50	NW	3.0	6	SE
20250919.09	0.59	NW	3.0	6	SE
20250919.12	0.59	NW	3.2	2	SE
20250919.15	0.61	W	3.4	5	NW
20250919.18	0.67	W	3.3	10	NW
20250919.21	0.75	SW	3.3	8	N
20250920.00	0.70	SW	3.5	5	SW
20250920.03	0.66	SW	3.5	6	S
20250920.06	0.68	SW	3.4	7	E
20250920.09	0.67	W	3.4	5	SE
20250920.12	0.61	W	3.5	4	N
20250920.15	0.55	W	3.8	4	N
20250920.18	0.58	W	3.4	5	SW
20250920.21	0.68	SW	3.2	7	SW
20250921.00	0.78	SW	3.3	8	SW
20250921.03	0.82	SW	3.4	7	SW
20250921.06	0.89	SW	3.4	4	W
20250921.09	0.90	SW	3.5	5	W
20250921.12	0.76	W	3.6	2	S
20250921.15	0.81	W	3.7	7	S
20250921.18	1.16	W	4.0	10	SW
20250921.21	1.31	SW	4.4	6	SW
20250922.00	1.12	SW	4.6	2	SW
20250922.03	0.91	SW	4.5	7	N
20250922.06	0.90	SW	4.0	11	NW
20250922.09	1.01	S	3.7	9	N
20250922.12	0.92	S	3.8	7	E
20250922.15	0.75	S	3.9	5	E
20250922.18	0.67	SW	3.8	4	E
20250922.21	0.63	SW	3.8	3	S
20250923.00	0.62	SW	4.0	1	NW
20250923.03	0.62	SW	4.2	3	N
20250923.06	0.67	SW	4.1	5	N
20250923.09	0.80	SW	3.9	6	SW
20250923.12	0.85	SW	4.0	7	SE

Wind condition in the Peschanyi

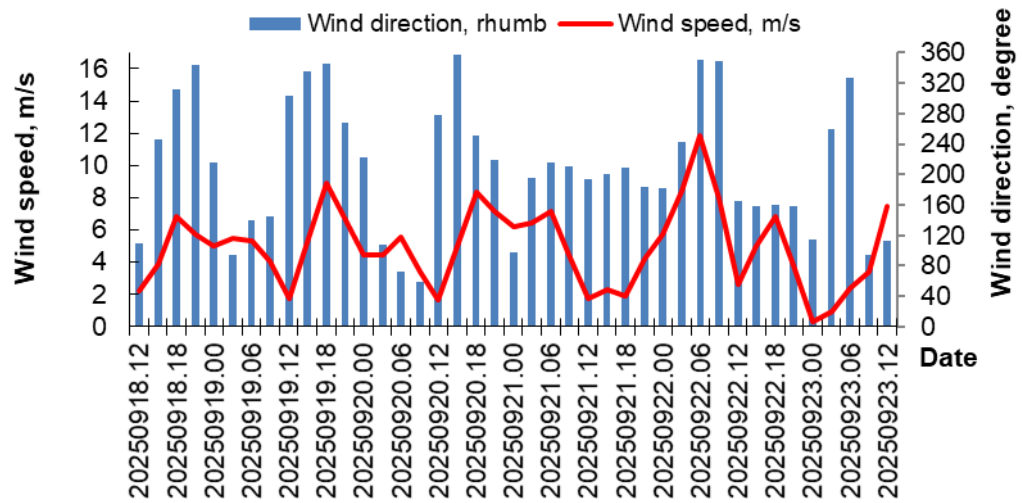


Wave condition in the Peschanyi

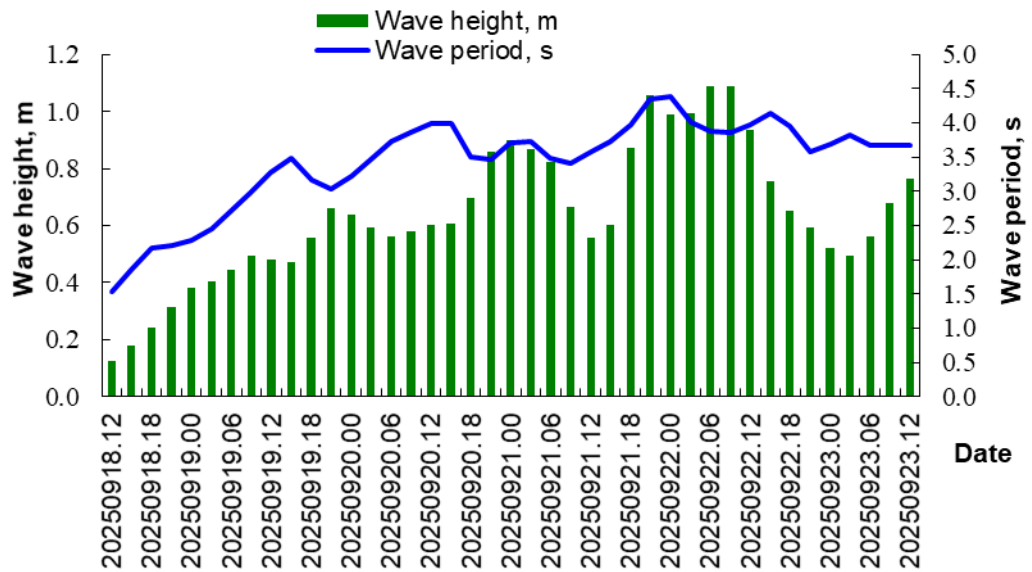


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250918.12	0.15	NW	2.0	1	S
20250918.15	0.22	W	2.2	3	N
20250918.18	0.29	W	2.5	6	NW
20250918.21	0.33	W	2.7	3	NW
20250919.00	0.36	W	3.1	1	SW
20250919.03	0.39	NW	3.3	4	SE
20250919.06	0.50	NW	2.9	7	SE
20250919.09	0.55	NW	3.0	5	SE
20250919.12	0.52	NW	3.3	2	N
20250919.15	0.51	NW	3.6	6	NW
20250919.18	0.63	W	3.3	10	N
20250919.21	0.76	S	3.2	7	W
20250920.00	0.72	S	3.4	5	SW
20250920.03	0.68	SW	3.5	7	E
20250920.06	0.70	SW	3.6	6	S
20250920.09	0.69	W	3.6	3	S
20250920.12	0.62	W	3.7	2	NE
20250920.15	0.57	W	3.8	4	N
20250920.18	0.56	W	3.7	4	N
20250920.21	0.61	W	3.5	5	SW
20250921.00	0.69	W	3.5	6	S
20250921.03	0.73	SW	3.4	7	SW
20250921.06	0.79	SW	3.3	6	SW
20250921.09	0.73	W	3.4	4	SW
20250921.12	0.65	W	3.8	2	NE
20250921.15	0.69	W	3.9	1	W
20250921.18	0.99	W	4.1	2	NW
20250921.21	1.20	SW	4.5	2	NE
20250922.00	1.15	SW	4.7	5	S
20250922.03	1.05	SW	4.4	7	W
20250922.06	1.03	SW	4.1	10	NW
20250922.09	1.08	SW	4.0	8	N
20250922.12	0.96	SW	3.9	6	E
20250922.15	0.80	SW	4.0	6	E
20250922.18	0.70	SW	3.9	6	SE
20250922.21	0.63	SW	3.8	3	SE
20250923.00	0.58	SW	4.0	2	NW
20250923.03	0.56	SW	4.1	5	N
20250923.06	0.65	SW	3.8	7	N
20250923.09	0.77	SW	3.6	6	SW
20250923.12	0.79	SW	3.8	6	SE

Wind condition in the Fetisovo

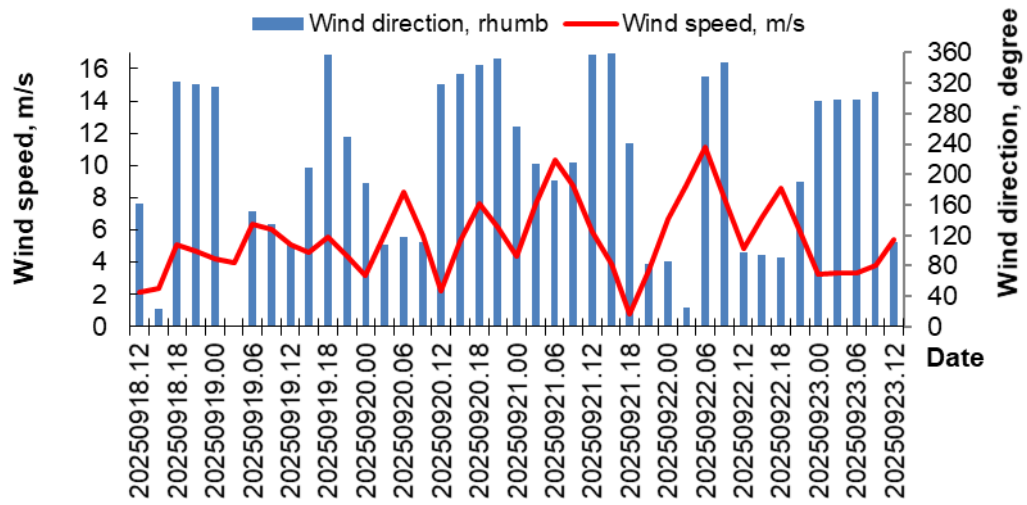


Wave condition in the Fetisovo

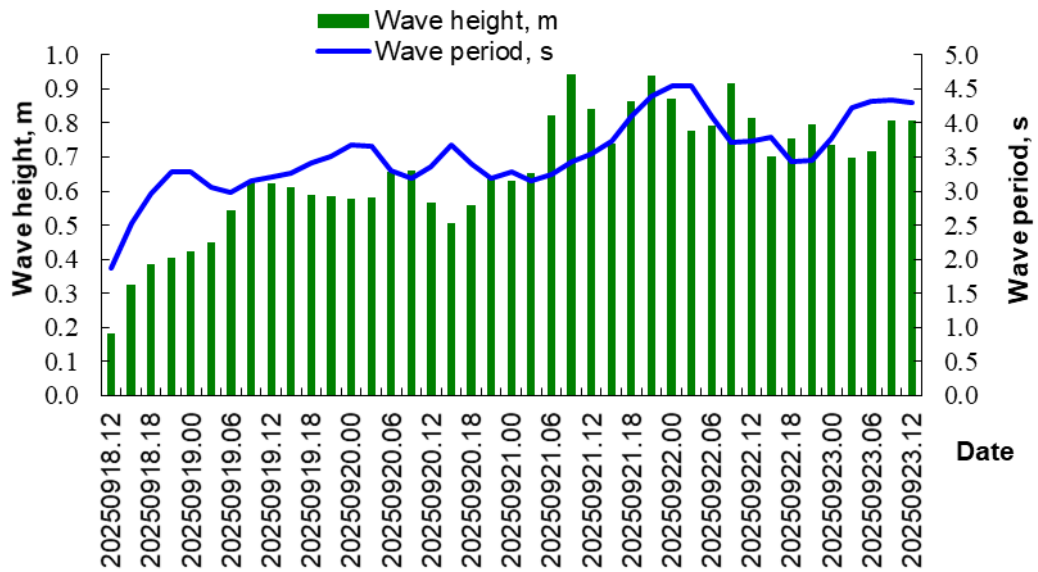


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250918.12	0.12	W	1.5	2	E
20250918.15	0.18	W	1.8	4	SW
20250918.18	0.24	W	2.2	7	NW
20250918.21	0.32	SW	2.2	6	N
20250919.00	0.38	SW	2.3	5	SW
20250919.03	0.40	SW	2.4	5	E
20250919.06	0.45	W	2.7	5	SE
20250919.09	0.49	W	3.0	4	SE
20250919.12	0.48	W	3.3	2	NW
20250919.15	0.47	W	3.5	5	NW
20250919.18	0.56	W	3.2	9	N
20250919.21	0.66	SW	3.0	7	W
20250920.00	0.64	SW	3.2	4	SW
20250920.03	0.59	SW	3.5	4	E
20250920.06	0.56	SW	3.7	6	E
20250920.09	0.58	W	3.9	3	NE
20250920.12	0.60	W	4.0	2	W
20250920.15	0.60	W	4.0	5	N
20250920.18	0.70	SW	3.5	8	W
20250920.21	0.86	SW	3.5	7	SW
20250921.00	0.90	W	3.7	6	E
20250921.03	0.87	W	3.7	6	S
20250921.06	0.82	W	3.5	7	SW
20250921.09	0.67	W	3.4	4	SW
20250921.12	0.56	W	3.6	2	S
20250921.15	0.60	W	3.7	2	S
20250921.18	0.87	W	4.0	2	SW
20250921.21	1.06	W	4.3	4	S
20250922.00	0.99	W	4.4	6	S
20250922.03	0.99	SW	4.0	8	SW
20250922.06	1.09	SW	3.9	12	N
20250922.09	1.09	SW	3.9	8	N
20250922.12	0.93	S	4.0	3	S
20250922.15	0.76	SW	4.1	5	S
20250922.18	0.65	SW	4.0	7	S
20250922.21	0.59	SW	3.6	4	S
20250923.00	0.52	SW	3.7	0	SE
20250923.03	0.49	W	3.8	1	W
20250923.06	0.56	SW	3.7	2	NW
20250923.09	0.68	SW	3.7	3	E
20250923.12	0.77	SW	3.7	7	SE

Wind condition in the Saura

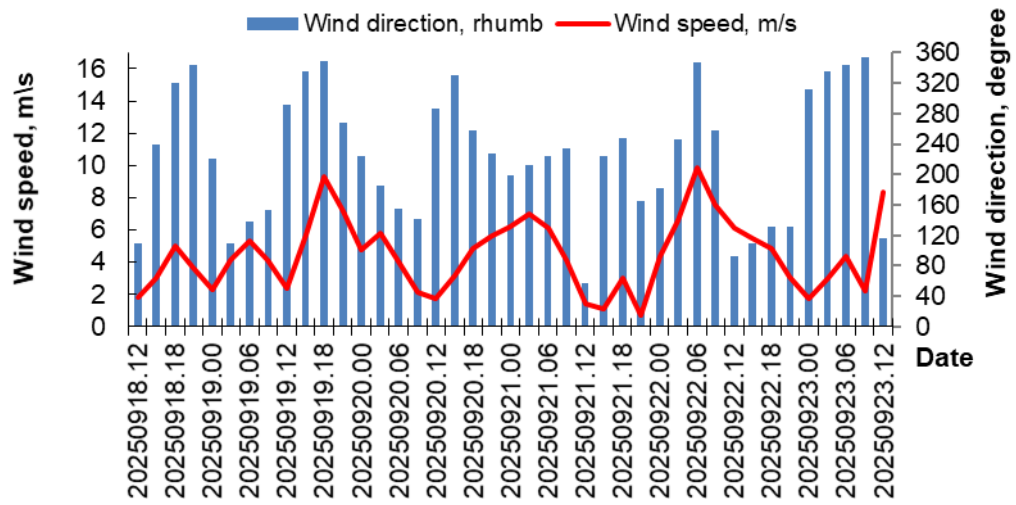


Wave condition in the Saura

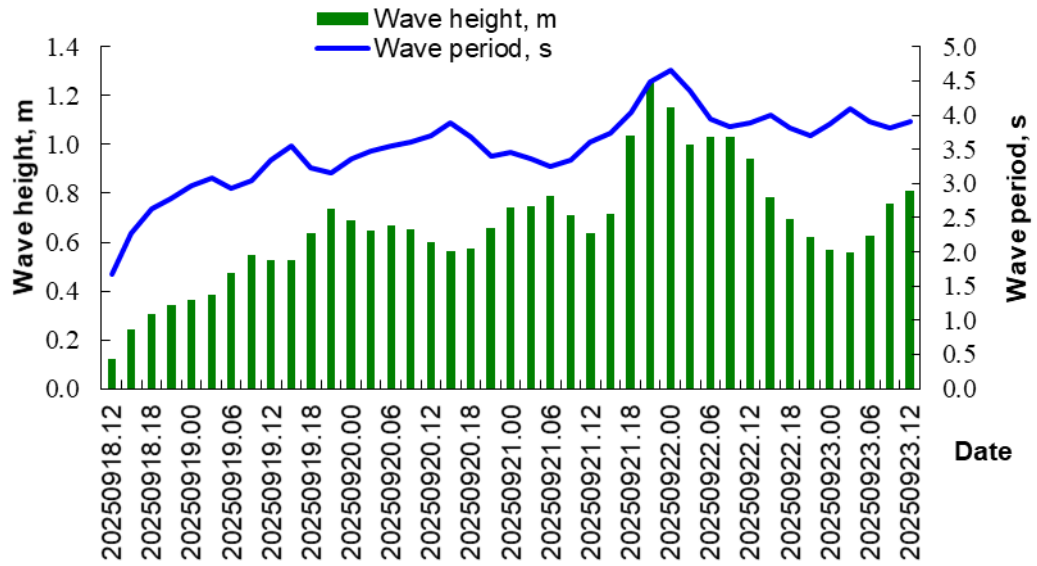


Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250918.12	0.18	NW	1.9	2	S
20250918.15	0.33	W	2.5	2	NE
20250918.18	0.39	NW	3.0	5	NW
20250918.21	0.40	NW	3.3	5	NW
20250919.00	0.42	NW	3.3	4	NW
20250919.03	0.45	NW	3.1	4	N
20250919.06	0.54	NW	3.0	6	SE
20250919.09	0.63	NW	3.2	6	SE
20250919.12	0.62	NW	3.2	5	E
20250919.15	0.61	NW	3.3	5	SW
20250919.18	0.59	NW	3.4	6	N
20250919.21	0.58	NW	3.5	4	W
20250920.00	0.58	NW	3.7	3	S
20250920.03	0.58	W	3.7	6	E
20250920.06	0.66	W	3.3	8	SE
20250920.09	0.66	W	3.2	6	E
20250920.12	0.57	W	3.4	2	NW
20250920.15	0.51	W	3.7	5	NW
20250920.18	0.56	S	3.4	8	N
20250920.21	0.65	S	3.2	6	N
20250921.00	0.63	S	3.3	4	W
20250921.03	0.65	S	3.2	8	SW
20250921.06	0.82	SW	3.2	10	S
20250921.09	0.94	SW	3.4	9	SW
20250921.12	0.84	SW	3.5	6	N
20250921.15	0.74	SW	3.7	4	N
20250921.18	0.86	SW	4.1	1	SW
20250921.21	0.94	SW	4.4	4	E
20250922.00	0.87	SW	4.5	7	E
20250922.03	0.78	SW	4.5	9	NE
20250922.06	0.79	SW	4.1	11	NW
20250922.09	0.92	S	3.7	8	N
20250922.12	0.81	S	3.7	5	E
20250922.15	0.70	S	3.8	7	E
20250922.18	0.76	SW	3.4	9	E
20250922.21	0.80	SW	3.5	6	S
20250923.00	0.74	SW	3.8	3	NW
20250923.03	0.70	SW	4.2	3	NW
20250923.06	0.72	SW	4.3	3	NW
20250923.09	0.81	SW	4.3	4	NW
20250923.12	0.81	SW	4.3	5	E

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
20250918.12	0.12	W	1.7	2	E
20250918.15	0.25	W	2.3	3	SW
20250918.18	0.31	W	2.6	5	NW
20250918.21	0.34	W	2.8	4	N
20250919.00	0.36	W	3.0	2	SW
20250919.03	0.38	W	3.1	4	E
20250919.06	0.48	W	2.9	5	SE
20250919.09	0.55	W	3.1	4	SE
20250919.12	0.53	NW	3.3	2	W
20250919.15	0.53	W	3.6	6	NW
20250919.18	0.64	W	3.2	9	N
20250919.21	0.74	SW	3.2	7	W
20250920.00	0.69	SW	3.4	5	SW
20250920.03	0.65	SW	3.5	6	S
20250920.06	0.67	SW	3.5	4	SE
20250920.09	0.65	W	3.6	2	SE
20250920.12	0.60	W	3.7	2	W
20250920.15	0.56	W	3.9	3	NW
20250920.18	0.57	W	3.7	5	W
20250920.21	0.66	SW	3.4	6	SW
20250921.00	0.74	W	3.5	6	S
20250921.03	0.75	W	3.4	7	SW
20250921.06	0.79	W	3.2	6	SW
20250921.09	0.71	W	3.3	4	SW
20250921.12	0.64	W	3.6	1	NE
20250921.15	0.71	W	3.7	1	SW
20250921.18	1.03	W	4.0	3	SW
20250921.21	1.25	SW	4.5	1	S
20250922.00	1.15	SW	4.7	4	S
20250922.03	1.00	SW	4.4	7	SW
20250922.06	1.03	SW	4.0	10	N
20250922.09	1.03	SW	3.8	8	W
20250922.12	0.94	SW	3.9	6	E
20250922.15	0.79	SW	4.0	5	E
20250922.18	0.69	SW	3.8	5	SE
20250922.21	0.62	SW	3.7	3	SE
20250923.00	0.57	SW	3.9	2	NW
20250923.03	0.56	SW	4.1	3	NW
20250923.06	0.63	SW	3.9	4	N
20250923.09	0.76	SW	3.8	2	N
20250923.12	0.81	SW	3.9	8	SE

**Calculation characteristics were obtained using the SWAN wave model, adapted in RSE «Kazhydromet» to the conditions of the Caspian Sea.*

Compiled by: Bazarbay L.B.

Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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