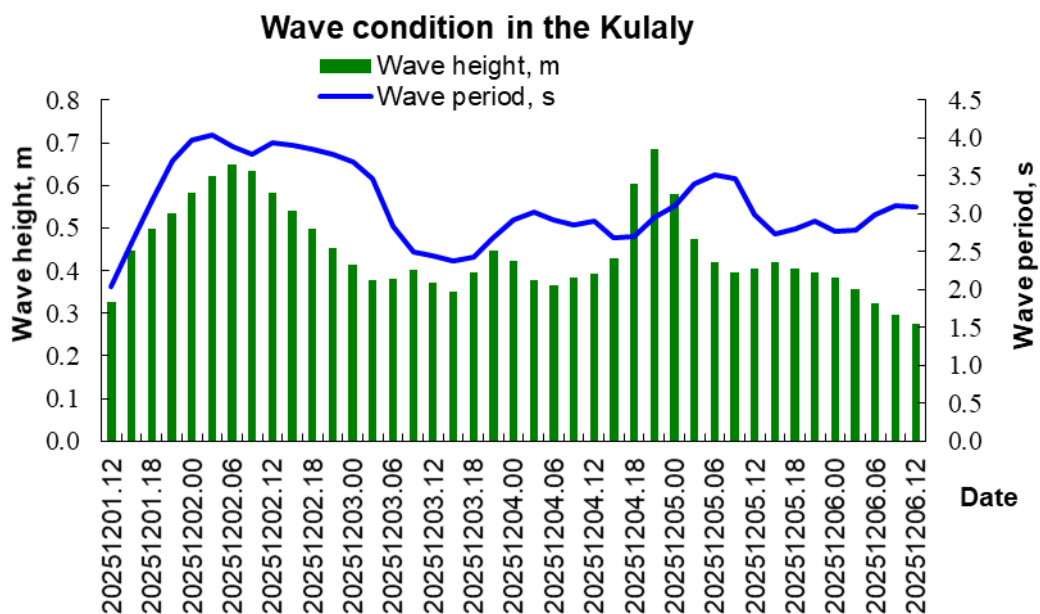
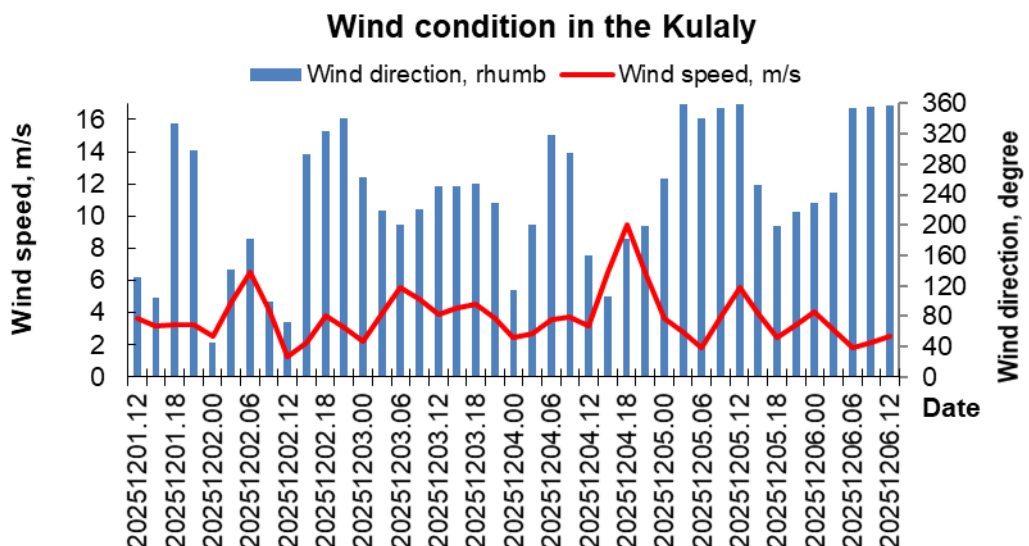




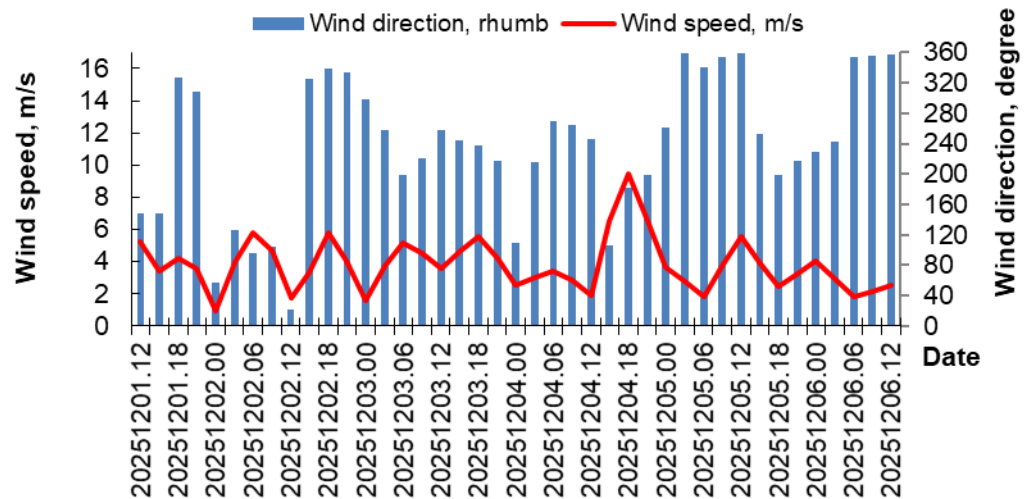
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the perio December 01 – 06, 2025.**

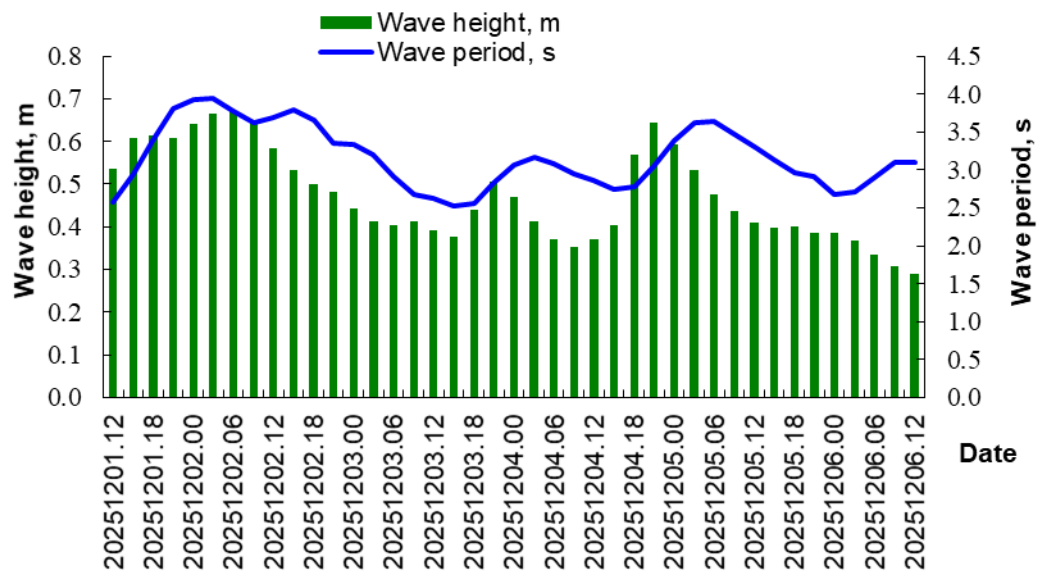


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251201.12	0.33	NW	2.0	4	SE
20251201.15	0.45	NW	2.6	3	E
20251201.18	0.50	N	3.2	3	NW
20251201.21	0.53	N	3.7	3	NW
20251202.00	0.58	N	4.0	3	NE
20251202.03	0.62	N	4.0	5	SE
20251202.06	0.65	N	3.9	7	S
20251202.09	0.64	N	3.8	4	E
20251202.12	0.58	N	3.9	1	E
20251202.15	0.54	NW	3.9	2	NW
20251202.18	0.50	NW	3.9	4	NW
20251202.21	0.45	NW	3.8	3	N
20251203.00	0.41	W	3.7	2	W
20251203.03	0.38	W	3.5	4	SW
20251203.06	0.38	W	2.8	6	S
20251203.09	0.40	W	2.5	5	SW
20251203.12	0.37	SW	2.4	4	W
20251203.15	0.35	SW	2.4	4	W
20251203.18	0.39	SW	2.4	5	W
20251203.21	0.45	SW	2.7	4	SW
20251204.00	0.42	SW	2.9	2	SE
20251204.03	0.38	SW	3.0	3	S
20251204.06	0.37	SW	2.9	4	NW
20251204.09	0.38	SW	2.8	4	NW
20251204.12	0.39	SW	2.9	3	S
20251204.15	0.43	SW	2.7	7	E
20251204.18	0.60	W	2.7	9	S
20251204.21	0.69	W	3.0	7	S
20251205.00	0.58	SW	3.1	4	W
20251205.03	0.47	SW	3.4	3	N
20251205.06	0.42	SW	3.5	2	N
20251205.09	0.39	SW	3.5	4	N
20251205.12	0.40	SW	3.0	6	N
20251205.15	0.42	SW	2.7	4	W
20251205.18	0.40	SW	2.8	2	S
20251205.21	0.40	SW	2.9	3	SW
20251206.00	0.38	SW	2.8	4	SW
20251206.03	0.36	SW	2.8	3	SW
20251206.06	0.32	SW	3.0	2	N
20251206.09	0.30	SW	3.1	2	N
20251206.12	0.28	SW	3.1	3	N

Wind condition in the Fort-Shevchenko

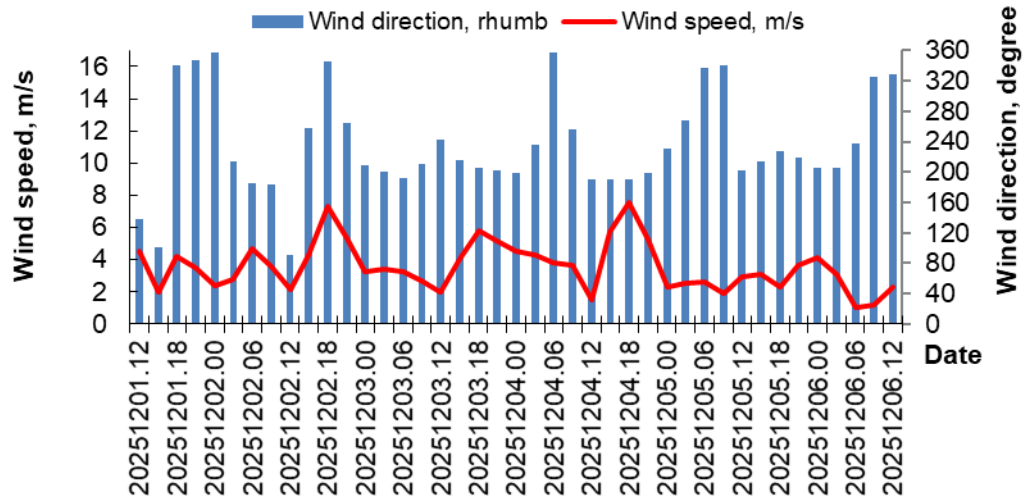


Wave condition in the Fort-Shevchenko

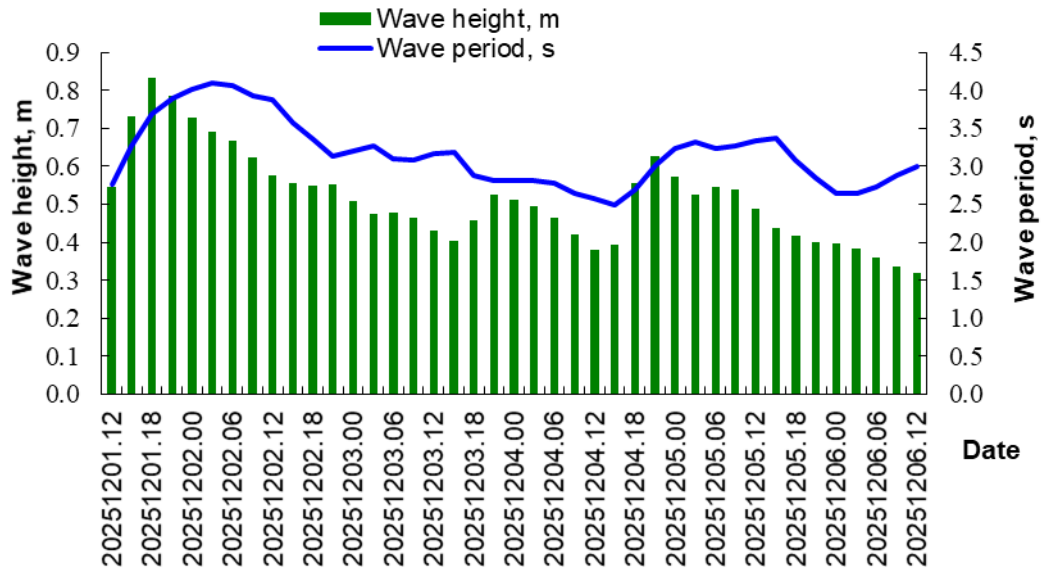


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251201.12	0.54	NW	2.6	5	SE
20251201.15	0.61	NW	3.0	3	SE
20251201.18	0.61	N	3.4	4	NW
20251201.21	0.61	N	3.8	4	NW
20251202.00	0.64	N	3.9	1	NE
20251202.03	0.66	N	3.9	4	SE
20251202.06	0.67	N	3.8	6	E
20251202.09	0.65	N	3.6	5	E
20251202.12	0.59	N	3.7	2	N
20251202.15	0.53	NW	3.8	3	NW
20251202.18	0.50	NW	3.7	6	N
20251202.21	0.48	NW	3.3	4	NW
20251203.00	0.44	W	3.3	2	NW
20251203.03	0.41	W	3.2	4	W
20251203.06	0.40	W	2.9	5	S
20251203.09	0.41	W	2.7	5	SW
20251203.12	0.39	SW	2.6	4	W
20251203.15	0.38	SW	2.5	5	SW
20251203.18	0.44	SW	2.6	6	SW
20251203.21	0.51	SW	2.8	4	SW
20251204.00	0.47	SW	3.1	3	E
20251204.03	0.41	SW	3.2	3	SW
20251204.06	0.37	SW	3.1	3	W
20251204.09	0.35	SW	3.0	3	W
20251204.12	0.37	S	2.9	2	SW
20251204.15	0.40	SW	2.8	7	E
20251204.18	0.57	SW	2.8	9	S
20251204.21	0.64	SW	3.1	7	S
20251205.00	0.59	SW	3.4	4	W
20251205.03	0.53	SW	3.6	3	N
20251205.06	0.48	SW	3.6	2	N
20251205.09	0.44	SW	3.5	4	N
20251205.12	0.41	SW	3.3	6	N
20251205.15	0.40	SW	3.1	4	W
20251205.18	0.40	SW	3.0	2	S
20251205.21	0.39	SW	2.9	3	SW
20251206.00	0.39	SW	2.7	4	SW
20251206.03	0.37	SW	2.7	3	SW
20251206.06	0.33	SW	2.9	2	N
20251206.09	0.31	SW	3.1	2	N
20251206.12	0.29	SW	3.1	3	N

Wind condition in the Aktau

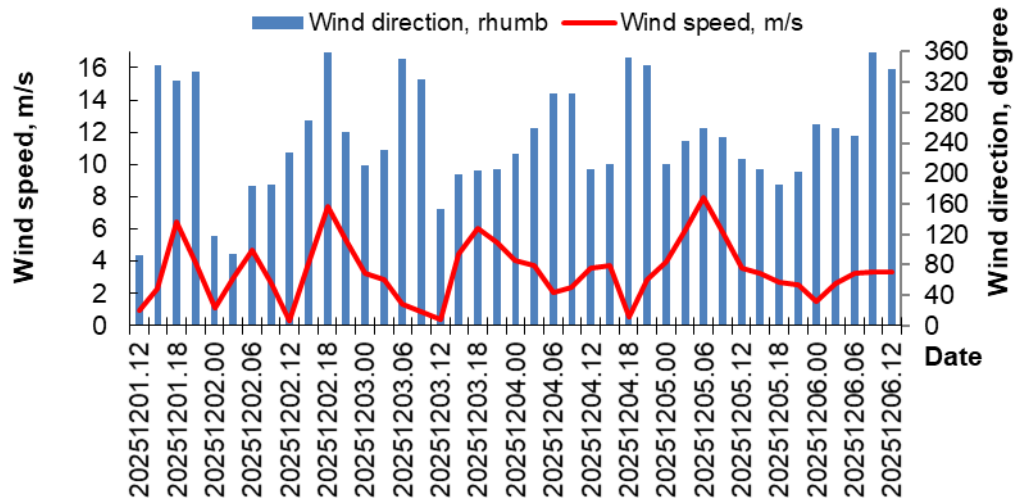


Wave condition in the Aktau

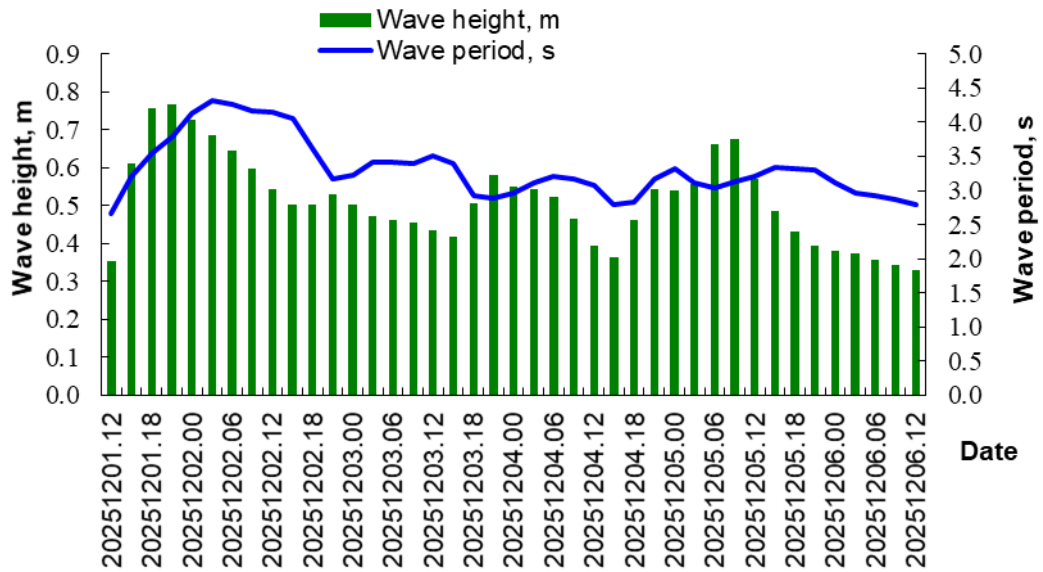


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20251201.12	0.55	NW	2.8	5	SE
20251201.15	0.73	NW	3.3	2	E
20251201.18	0.83	NW	3.7	4	N
20251201.21	0.78	NW	3.9	3	N
20251202.00	0.73	NW	4.0	2	N
20251202.03	0.69	N	4.1	3	SW
20251202.06	0.67	N	4.1	5	S
20251202.09	0.62	NW	3.9	4	S
20251202.12	0.58	NW	3.9	2	E
20251202.15	0.56	NW	3.6	4	W
20251202.18	0.55	NW	3.4	7	N
20251202.21	0.55	W	3.1	5	W
20251203.00	0.51	W	3.2	3	SW
20251203.03	0.47	W	3.3	3	S
20251203.06	0.48	W	3.1	3	S
20251203.09	0.46	W	3.1	3	SW
20251203.12	0.43	W	3.2	2	SW
20251203.15	0.40	W	3.2	4	SW
20251203.18	0.46	SW	2.9	6	SW
20251203.21	0.52	SW	2.8	5	SW
20251204.00	0.51	SW	2.8	5	S
20251204.03	0.50	SW	2.8	4	SW
20251204.06	0.47	SW	2.8	4	N
20251204.09	0.42	SW	2.6	4	W
20251204.12	0.38	SW	2.6	2	S
20251204.15	0.39	SW	2.5	6	S
20251204.18	0.56	SW	2.7	8	S
20251204.21	0.63	SW	3.0	5	S
20251205.00	0.57	SW	3.2	2	SW
20251205.03	0.53	SW	3.3	3	W
20251205.06	0.55	SW	3.2	3	NW
20251205.09	0.54	SW	3.3	2	N
20251205.12	0.49	SW	3.3	3	S
20251205.15	0.44	SW	3.4	3	SW
20251205.18	0.42	SW	3.1	2	SW
20251205.21	0.40	SW	2.8	4	SW
20251206.00	0.40	SW	2.6	4	SW
20251206.03	0.38	SW	2.6	3	SW
20251206.06	0.36	SW	2.7	1	SW
20251206.09	0.34	SW	2.9	1	NW
20251206.12	0.32	SW	3.0	2	NW

Wind condition in the Peschanyi

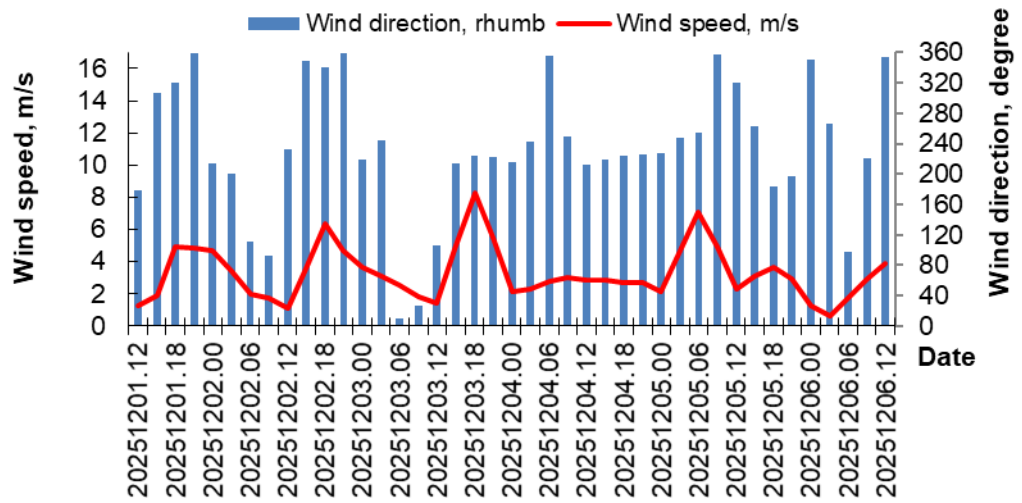


Wave condition in the Peschanyi

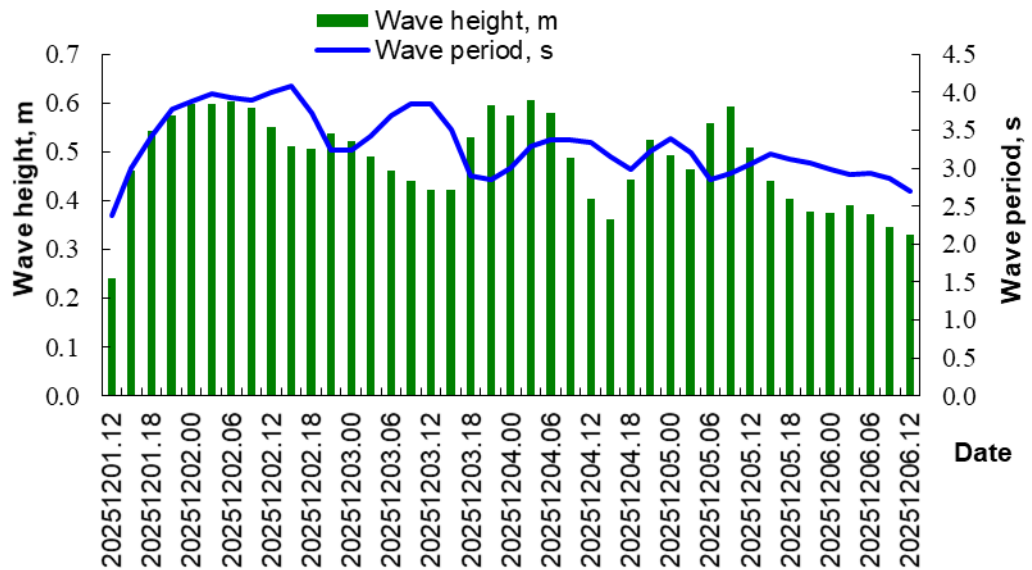


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251201.12	0.36	NW	2.7	1	E
20251201.15	0.61	NW	3.2	2	N
20251201.18	0.76	NW	3.6	6	NW
20251201.21	0.77	NW	3.8	4	NW
20251202.00	0.73	NW	4.1	1	SE
20251202.03	0.69	NW	4.3	3	E
20251202.06	0.65	NW	4.3	5	S
20251202.09	0.60	NW	4.2	3	S
20251202.12	0.55	NW	4.2	0	SW
20251202.15	0.50	NW	4.1	4	W
20251202.18	0.50	NW	3.6	7	N
20251202.21	0.53	W	3.2	5	W
20251203.00	0.50	W	3.2	3	SW
20251203.03	0.47	W	3.4	3	SW
20251203.06	0.46	W	3.4	1	N
20251203.09	0.45	W	3.4	1	NW
20251203.12	0.43	W	3.5	0	SE
20251203.15	0.42	W	3.4	4	S
20251203.18	0.51	W	2.9	6	SW
20251203.21	0.58	SW	2.9	5	SW
20251204.00	0.55	SW	3.0	4	SW
20251204.03	0.54	SW	3.1	4	W
20251204.06	0.52	SW	3.2	2	NW
20251204.09	0.46	SW	3.2	2	NW
20251204.12	0.39	SW	3.1	4	SW
20251204.15	0.36	SW	2.8	4	SW
20251204.18	0.46	SW	2.8	1	N
20251204.21	0.54	SW	3.2	3	N
20251205.00	0.54	SW	3.3	4	SW
20251205.03	0.56	SW	3.1	6	SW
20251205.06	0.66	SW	3.0	8	W
20251205.09	0.68	SW	3.1	6	W
20251205.12	0.57	SW	3.2	4	SW
20251205.15	0.49	SW	3.3	3	SW
20251205.18	0.43	SW	3.3	3	S
20251205.21	0.39	SW	3.3	3	S
20251206.00	0.38	SW	3.1	1	W
20251206.03	0.38	SW	3.0	3	W
20251206.06	0.36	SW	2.9	3	W
20251206.09	0.34	SW	2.9	3	N
20251206.12	0.33	SW	2.8	3	NW

Wind condition in the Fetisovo

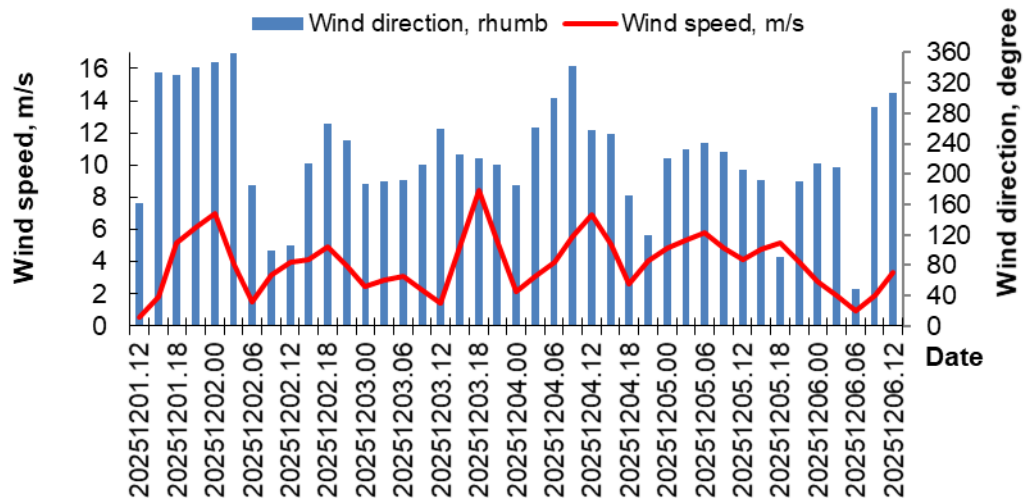


Wave condition in the Fetisovo

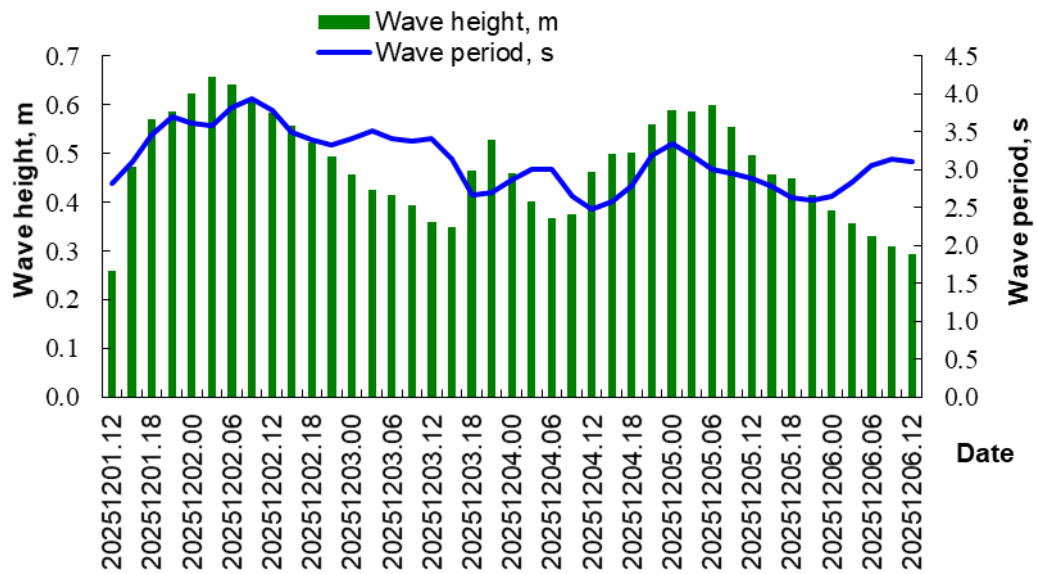


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251201.12	0.24	NW	2.4	1	S
20251201.15	0.46	NW	3.0	2	NW
20251201.18	0.54	NW	3.4	5	NW
20251201.21	0.57	NW	3.8	5	N
20251202.00	0.60	NW	3.9	5	SW
20251202.03	0.60	NW	4.0	3	S
20251202.06	0.60	NW	3.9	2	E
20251202.09	0.59	NW	3.9	2	E
20251202.12	0.55	NW	4.0	1	SW
20251202.15	0.51	NW	4.1	4	N
20251202.18	0.51	NW	3.7	6	N
20251202.21	0.54	W	3.2	5	N
20251203.00	0.52	W	3.2	4	SW
20251203.03	0.49	W	3.4	3	SW
20251203.06	0.46	W	3.7	3	N
20251203.09	0.44	NW	3.8	2	NE
20251203.12	0.42	NW	3.9	1	E
20251203.15	0.42	W	3.5	5	SW
20251203.18	0.53	SW	2.9	8	SW
20251203.21	0.59	SW	2.9	5	SW
20251204.00	0.58	W	3.0	2	SW
20251204.03	0.61	W	3.3	2	SW
20251204.06	0.58	W	3.4	3	N
20251204.09	0.49	W	3.4	3	W
20251204.12	0.40	W	3.3	3	SW
20251204.15	0.36	W	3.2	3	SW
20251204.18	0.44	W	3.0	3	SW
20251204.21	0.52	SW	3.2	3	SW
20251205.00	0.49	W	3.4	2	SW
20251205.03	0.46	W	3.2	5	W
20251205.06	0.56	SW	2.9	7	W
20251205.09	0.59	SW	2.9	5	N
20251205.12	0.51	SW	3.0	2	NW
20251205.15	0.44	SW	3.2	3	W
20251205.18	0.40	SW	3.1	4	S
20251205.21	0.38	SW	3.1	3	S
20251206.00	0.38	SW	3.0	1	N
20251206.03	0.39	SW	2.9	1	W
20251206.06	0.37	SW	2.9	2	E
20251206.09	0.35	SW	2.9	3	SW
20251206.12	0.33	SW	2.7	4	N

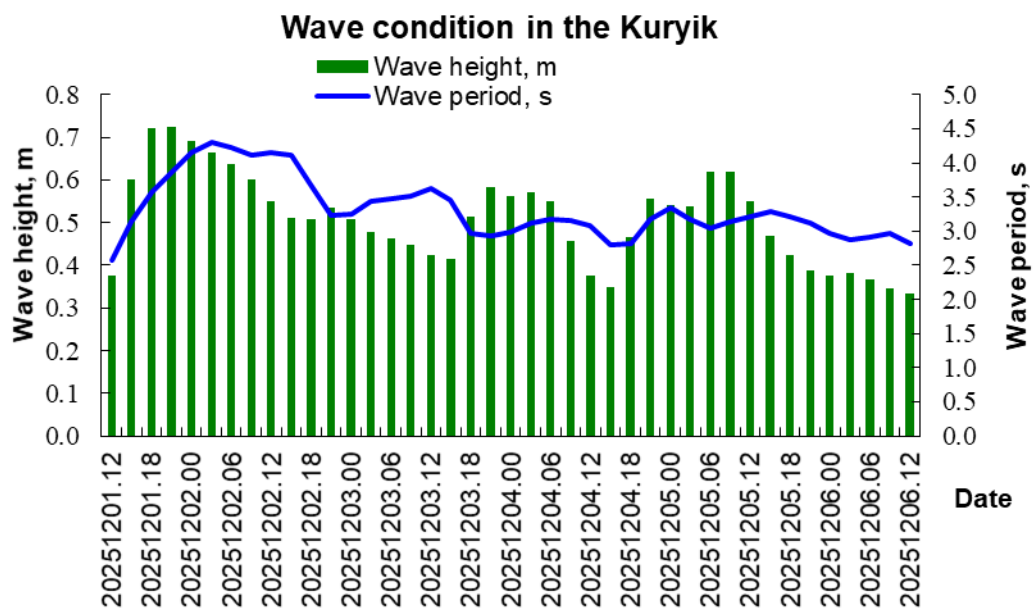
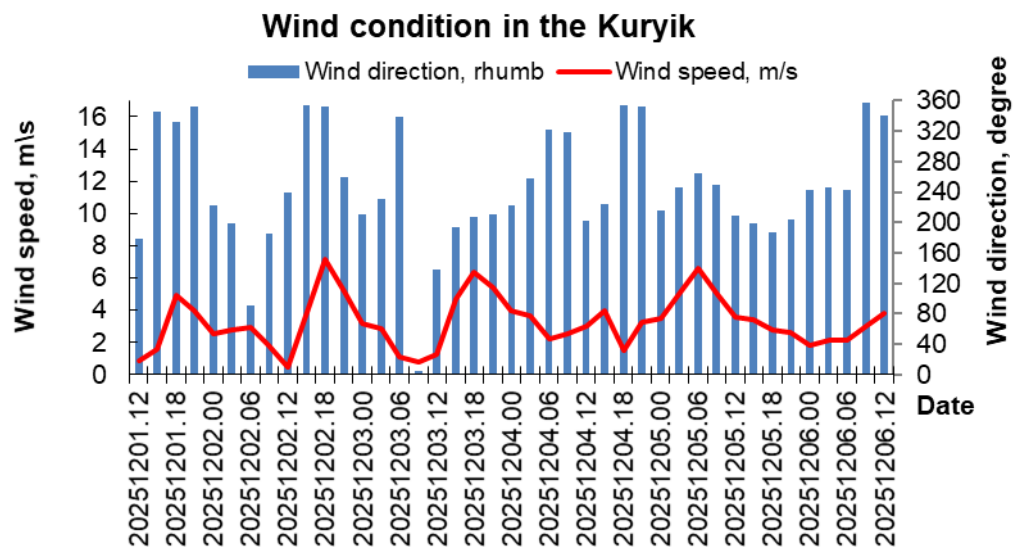
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251201.12	0.26	NW	2.8	1	S
20251201.15	0.47	NW	3.1	2	NW
20251201.18	0.57	NW	3.5	5	NW
20251201.21	0.59	NW	3.7	6	N
20251202.00	0.62	N	3.6	7	N
20251202.03	0.66	N	3.6	4	N
20251202.06	0.64	N	3.8	2	S
20251202.09	0.61	N	3.9	3	E
20251202.12	0.58	N	3.8	4	E
20251202.15	0.56	NW	3.5	4	SW
20251202.18	0.52	NW	3.4	5	W
20251202.21	0.49	NW	3.3	4	SW
20251203.00	0.46	W	3.4	2	S
20251203.03	0.43	W	3.5	3	S
20251203.06	0.41	W	3.4	3	S
20251203.09	0.39	W	3.4	2	SW
20251203.12	0.36	W	3.4	1	W
20251203.15	0.35	W	3.1	5	SW
20251203.18	0.46	SW	2.7	8	SW
20251203.21	0.53	SW	2.7	5	SW
20251204.00	0.46	SW	2.9	2	S
20251204.03	0.40	SW	3.0	3	W
20251204.06	0.37	SW	3.0	4	NW
20251204.09	0.38	S	2.6	6	N
20251204.12	0.46	S	2.5	7	W
20251204.15	0.50	S	2.6	5	W
20251204.18	0.50	SW	2.8	3	S
20251204.21	0.56	SW	3.2	4	SE
20251205.00	0.59	SW	3.3	5	SW
20251205.03	0.59	SW	3.2	5	SW
20251205.06	0.60	SW	3.0	6	SW
20251205.09	0.55	SW	3.0	5	SW
20251205.12	0.50	SW	2.9	4	SW
20251205.15	0.46	SW	2.8	5	S
20251205.18	0.45	SW	2.6	5	E
20251205.21	0.42	SW	2.6	4	S
20251206.00	0.38	SW	2.6	3	SW
20251206.03	0.36	SW	2.8	2	SW
20251206.06	0.33	SW	3.1	1	NE
20251206.09	0.31	SW	3.1	2	W
20251206.12	0.29	SW	3.1	3	NW



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251201.12	0.38	NW	2.6	1	S
20251201.15	0.60	NW	3.1	2	N
20251201.18	0.72	NW	3.6	5	NW
20251201.21	0.72	NW	3.9	4	N
20251202.00	0.69	NW	4.1	3	SW
20251202.03	0.66	NW	4.3	3	S
20251202.06	0.64	NW	4.2	3	E
20251202.09	0.60	NW	4.1	2	S
20251202.12	0.55	NW	4.2	0	SW
20251202.15	0.51	NW	4.1	4	N
20251202.18	0.51	NW	3.7	7	N
20251202.21	0.53	W	3.2	5	W
20251203.00	0.51	W	3.3	3	SW
20251203.03	0.48	W	3.4	3	SW
20251203.06	0.46	W	3.5	1	N
20251203.09	0.45	W	3.5	1	N
20251203.12	0.42	W	3.6	1	SE
20251203.15	0.42	W	3.5	5	S
20251203.18	0.51	W	3.0	6	SW
20251203.21	0.58	SW	2.9	5	SW
20251204.00	0.56	SW	3.0	4	SW
20251204.03	0.57	W	3.1	4	W
20251204.06	0.55	SW	3.2	2	NW
20251204.09	0.46	SW	3.1	3	NW
20251204.12	0.38	SW	3.1	3	SW
20251204.15	0.35	SW	2.8	4	SW
20251204.18	0.47	SW	2.8	2	N
20251204.21	0.56	SW	3.2	3	N
20251205.00	0.54	SW	3.3	3	SW
20251205.03	0.54	SW	3.2	5	SW
20251205.06	0.62	SW	3.0	7	W
20251205.09	0.62	SW	3.1	5	W
20251205.12	0.55	SW	3.2	4	SW
20251205.15	0.47	SW	3.3	3	S
20251205.18	0.42	SW	3.2	3	S
20251205.21	0.39	SW	3.1	3	SW
20251206.00	0.38	SW	3.0	2	SW
20251206.03	0.38	SW	2.9	2	SW
20251206.06	0.37	SW	2.9	2	SW
20251206.09	0.35	SW	3.0	3	N
20251206.12	0.33	SW	2.8	4	N

**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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