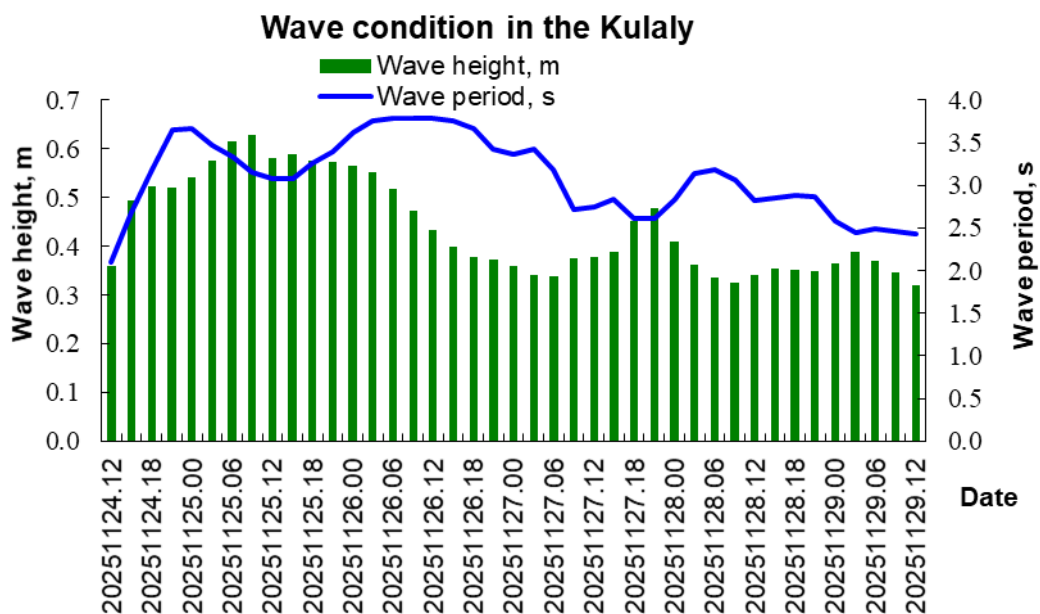
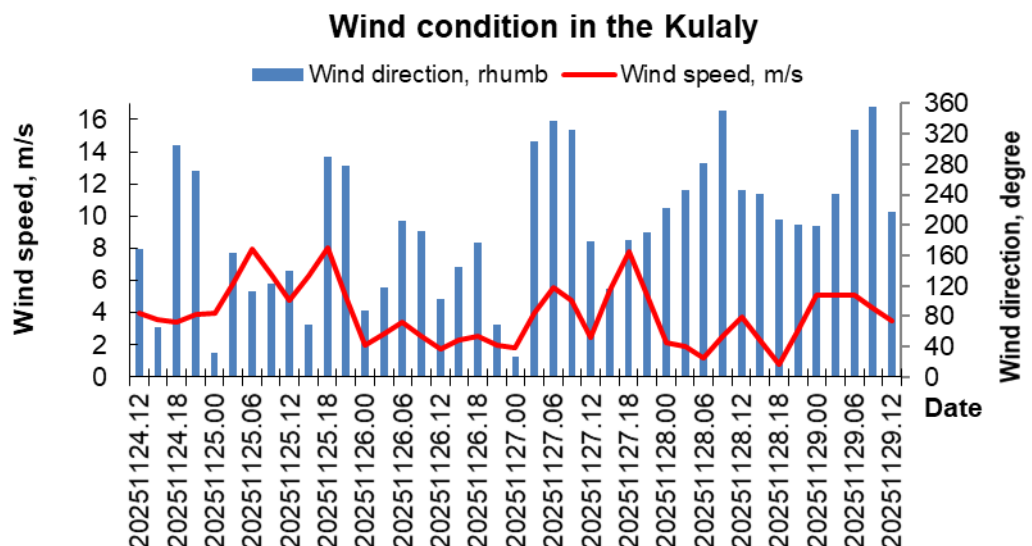




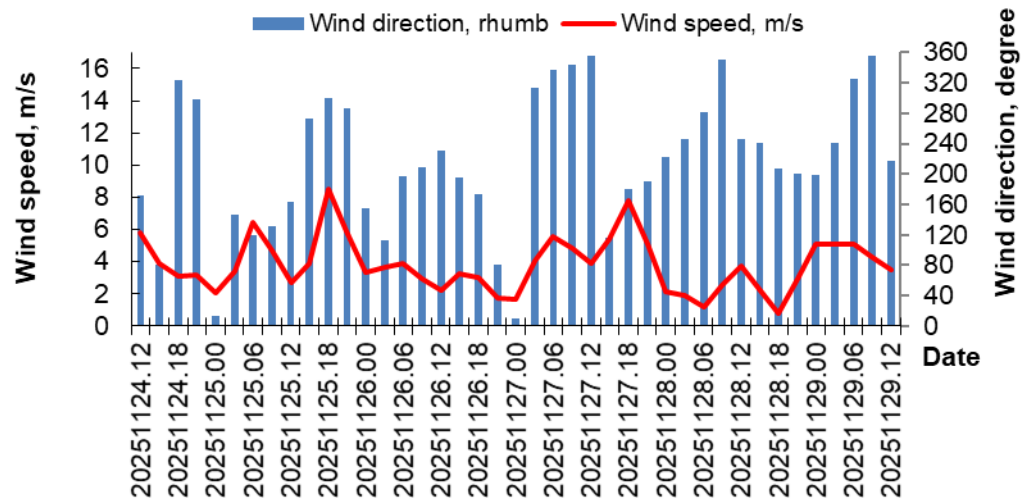
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period November 24 – 29, 2025.**

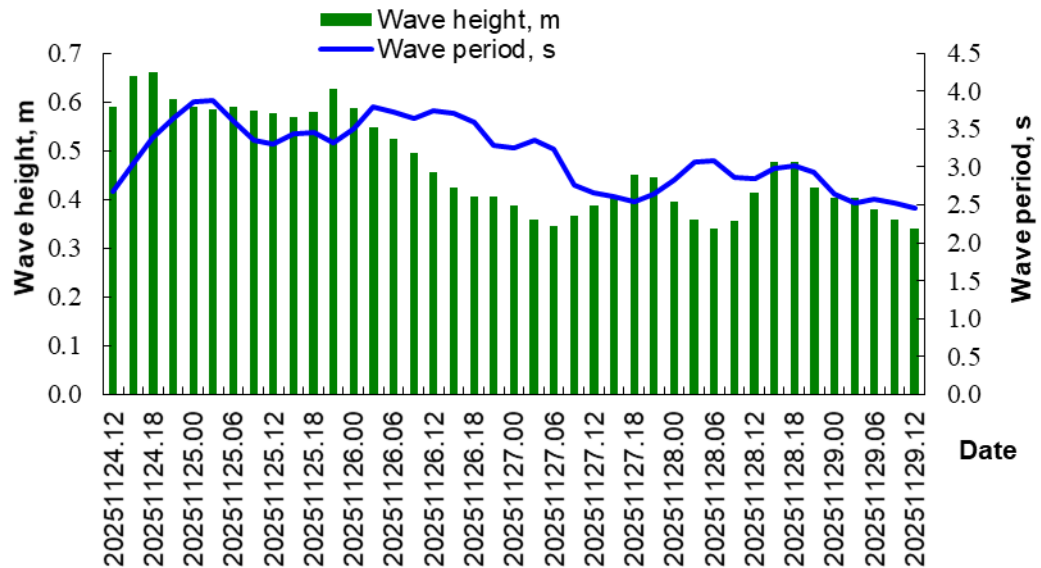


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251124.12	0.36	N	2.1	4	S
20251124.15	0.49	N	2.7	4	NE
20251124.18	0.52	N	3.2	3	NW
20251124.21	0.52	N	3.7	4	W
20251125.00	0.54	N	3.7	4	NE
20251125.03	0.58	N	3.5	6	S
20251125.06	0.62	N	3.3	8	SE
20251125.09	0.63	N	3.2	6	SE
20251125.12	0.58	N	3.1	5	SE
20251125.15	0.59	N	3.1	6	E
20251125.18	0.58	N	3.3	8	W
20251125.21	0.57	N	3.4	5	W
20251126.00	0.57	N	3.6	2	E
20251126.03	0.55	N	3.8	3	SE
20251126.06	0.52	N	3.8	3	SW
20251126.09	0.47	N	3.8	3	S
20251126.12	0.43	NE	3.8	2	E
20251126.15	0.40	NE	3.8	2	SE
20251126.18	0.38	NE	3.7	3	S
20251126.21	0.37	NE	3.4	2	E
20251127.00	0.36	NE	3.4	2	NE
20251127.03	0.34	NE	3.4	4	NW
20251127.06	0.34	E	3.2	6	NW
20251127.09	0.38	SE	2.7	5	NW
20251127.12	0.38	SE	2.7	2	S
20251127.15	0.39	SE	2.8	5	SE
20251127.18	0.45	SW	2.6	8	S
20251127.21	0.48	SW	2.6	5	S
20251128.00	0.41	SW	2.8	2	SW
20251128.03	0.36	SW	3.1	2	SW
20251128.06	0.33	SW	3.2	1	W
20251128.09	0.33	SW	3.1	3	N
20251128.12	0.34	SW	2.8	4	SW
20251128.15	0.36	SW	2.9	2	SW
20251128.18	0.35	SW	2.9	1	SW
20251128.21	0.35	SW	2.9	3	S
20251129.00	0.36	SW	2.6	5	S
20251129.03	0.39	SW	2.4	5	SW
20251129.06	0.37	SW	2.5	5	NW
20251129.09	0.35	SW	2.5	4	N
20251129.12	0.32	SW	2.4	3	SW

Wind condition in the Fort-Shevchenko

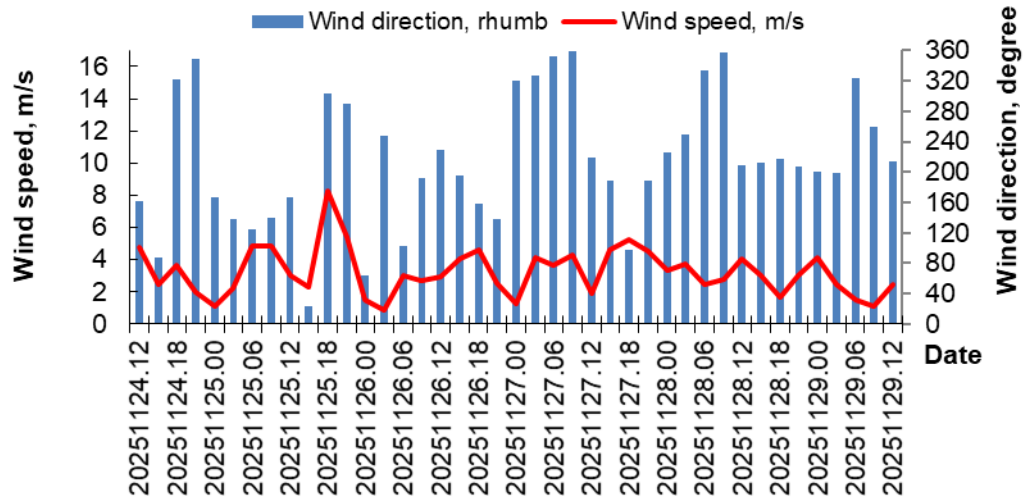


Wave condition in the Fort-Shevchenko

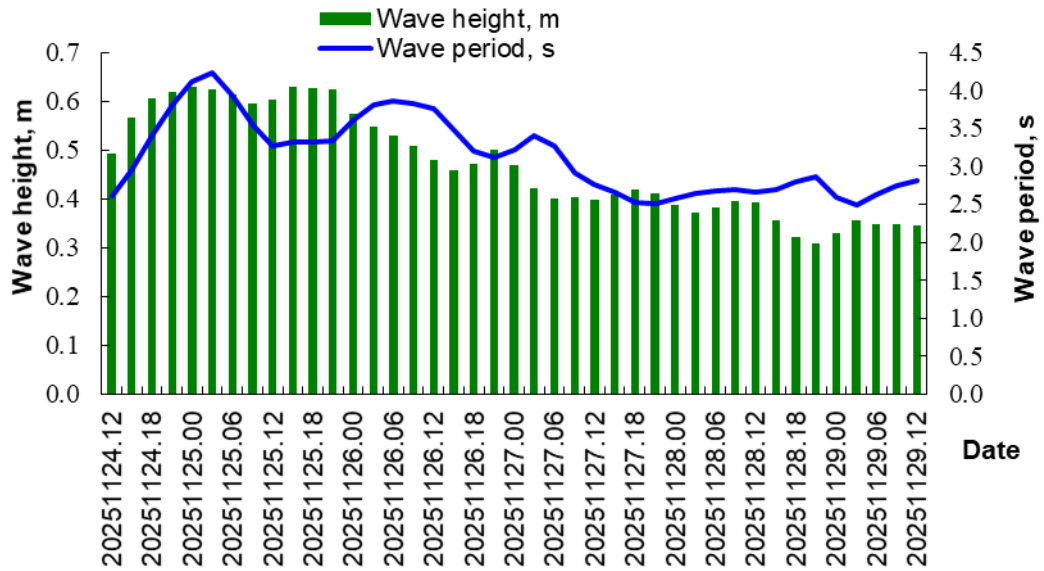


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251124.12	0.59	N	2.7	6	S
20251124.15	0.65	N	3.0	4	E
20251124.18	0.66	N	3.4	3	NW
20251124.21	0.60	N	3.6	3	NW
20251125.00	0.59	N	3.9	2	N
20251125.03	0.58	NE	3.9	3	SE
20251125.06	0.59	N	3.6	6	SE
20251125.09	0.58	N	3.4	5	SE
20251125.12	0.58	N	3.3	3	S
20251125.15	0.57	N	3.4	4	W
20251125.18	0.58	N	3.5	8	NW
20251125.21	0.63	NE	3.3	6	W
20251126.00	0.59	NE	3.5	3	SE
20251126.03	0.55	N	3.8	4	SE
20251126.06	0.52	N	3.7	4	S
20251126.09	0.50	N	3.6	3	SW
20251126.12	0.46	NE	3.7	2	SW
20251126.15	0.42	NE	3.7	3	S
20251126.18	0.41	NE	3.6	3	S
20251126.21	0.41	NE	3.3	2	E
20251127.00	0.39	NE	3.3	2	N
20251127.03	0.36	NE	3.4	4	NW
20251127.06	0.35	NE	3.2	6	NW
20251127.09	0.37	E	2.8	5	N
20251127.12	0.39	SE	2.7	4	N
20251127.15	0.41	S	2.6	5	SE
20251127.18	0.45	S	2.5	8	S
20251127.21	0.44	SW	2.6	5	S
20251128.00	0.40	SW	2.8	2	SW
20251128.03	0.36	SW	3.1	2	SW
20251128.06	0.34	SW	3.1	1	W
20251128.09	0.36	SW	2.9	3	N
20251128.12	0.41	SW	2.8	4	SW
20251128.15	0.48	SW	3.0	2	SW
20251128.18	0.48	SW	3.0	1	SW
20251128.21	0.42	SW	2.9	3	S
20251129.00	0.40	SW	2.6	5	S
20251129.03	0.40	SW	2.5	5	SW
20251129.06	0.38	SW	2.6	5	NW
20251129.09	0.36	SW	2.5	4	N
20251129.12	0.34	SW	2.5	3	SW

Wind condition in the Aktau

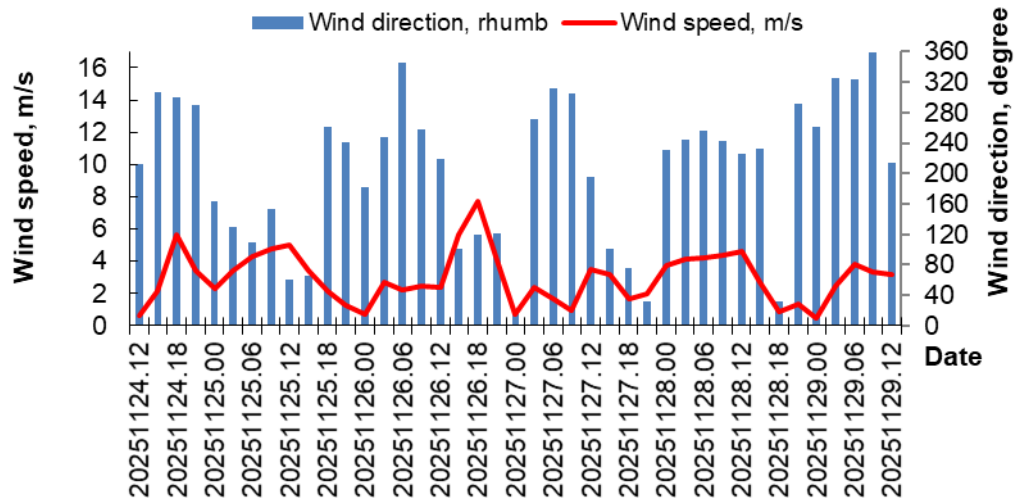


Wave condition in the Aktau

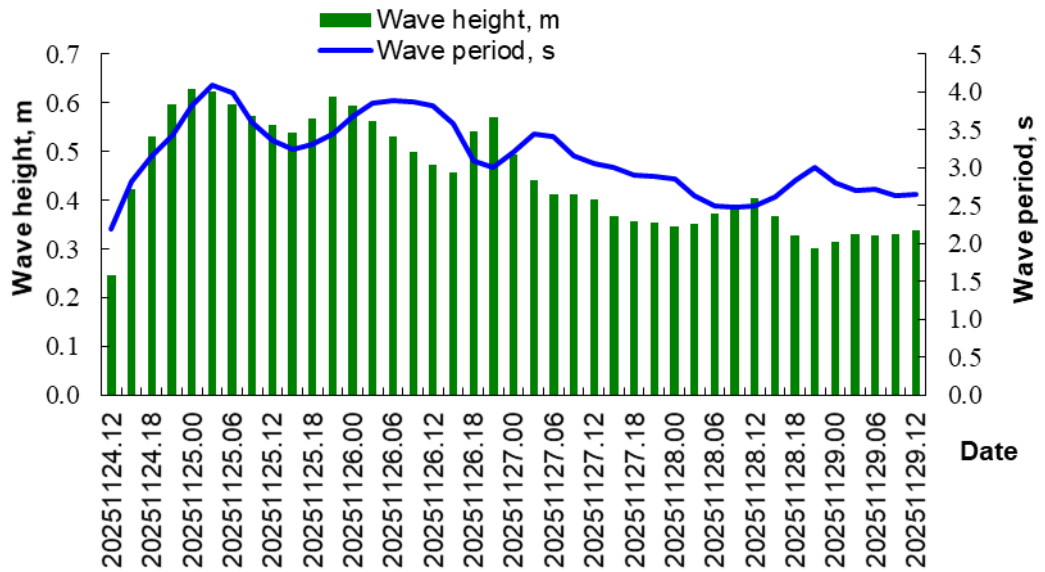


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20251124.12	0.49	N	2.6	5	S
20251124.15	0.57	NW	3.0	2	E
20251124.18	0.60	N	3.4	4	NW
20251124.21	0.62	N	3.8	2	N
20251125.00	0.63	N	4.1	1	S
20251125.03	0.62	N	4.2	2	SE
20251125.06	0.61	N	3.9	5	SE
20251125.09	0.59	N	3.5	5	SE
20251125.12	0.60	N	3.3	3	S
20251125.15	0.63	NW	3.3	2	NE
20251125.18	0.63	N	3.3	8	NW
20251125.21	0.63	NE	3.3	5	W
20251126.00	0.57	NE	3.6	1	NE
20251126.03	0.55	NE	3.8	1	SW
20251126.06	0.53	NE	3.9	3	E
20251126.09	0.51	NE	3.8	3	S
20251126.12	0.48	NE	3.8	3	SW
20251126.15	0.46	N	3.5	4	S
20251126.18	0.47	N	3.2	5	S
20251126.21	0.50	NW	3.1	3	SE
20251127.00	0.47	NW	3.2	1	NW
20251127.03	0.42	N	3.4	4	NW
20251127.06	0.40	N	3.3	4	N
20251127.09	0.40	NE	2.9	4	N
20251127.12	0.40	S	2.8	2	SW
20251127.15	0.41	SW	2.7	5	S
20251127.18	0.42	SW	2.5	5	E
20251127.21	0.41	W	2.5	5	S
20251128.00	0.39	SW	2.6	3	SW
20251128.03	0.37	SW	2.7	4	W
20251128.06	0.38	SW	2.7	2	NW
20251128.09	0.40	SW	2.7	3	N
20251128.12	0.39	SW	2.7	4	SW
20251128.15	0.36	SW	2.7	3	SW
20251128.18	0.32	SW	2.8	2	SW
20251128.21	0.31	SW	2.9	3	SW
20251129.00	0.33	SW	2.6	4	S
20251129.03	0.36	SW	2.5	2	S
20251129.06	0.35	SW	2.6	2	NW
20251129.09	0.35	SW	2.7	1	W
20251129.12	0.35	SW	2.8	3	SW

Wind condition in the Peschanyi

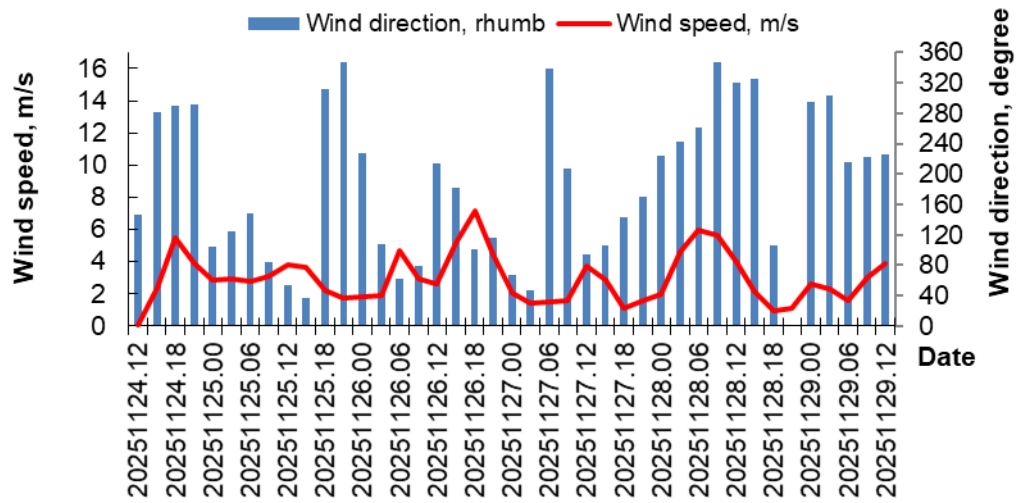


Wave condition in the Peschanyi

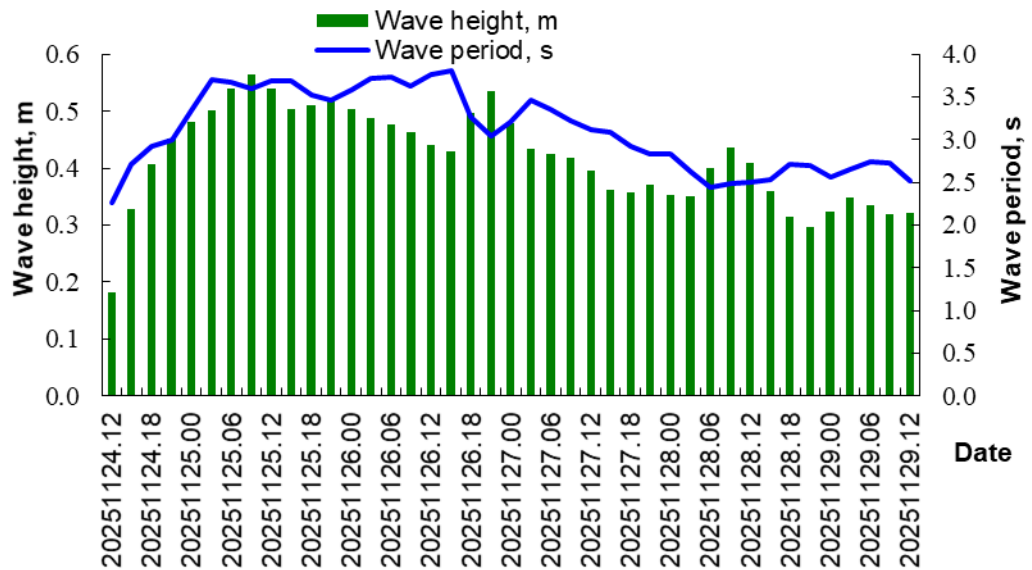


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251124.12	0.25	NW	2.2	1	SW
20251124.15	0.42	NW	2.8	2	NW
20251124.18	0.53	NW	3.2	6	NW
20251124.21	0.60	N	3.4	3	W
20251125.00	0.63	N	3.8	2	S
20251125.03	0.62	N	4.1	3	SE
20251125.06	0.60	N	4.0	4	E
20251125.09	0.57	N	3.6	5	SE
20251125.12	0.55	N	3.4	5	NE
20251125.15	0.54	N	3.2	3	NE
20251125.18	0.57	N	3.3	2	W
20251125.21	0.61	NE	3.5	1	SW
20251126.00	0.59	NE	3.7	1	S
20251126.03	0.56	NE	3.9	3	W
20251126.06	0.53	NE	3.9	2	N
20251126.09	0.50	NE	3.9	2	W
20251126.12	0.47	NE	3.8	2	SW
20251126.15	0.46	N	3.6	6	E
20251126.18	0.54	NW	3.1	8	SE
20251126.21	0.57	NW	3.0	4	SE
20251127.00	0.50	NW	3.2	1	N
20251127.03	0.44	N	3.4	2	W
20251127.06	0.41	N	3.4	2	NW
20251127.09	0.41	NW	3.2	1	NW
20251127.12	0.40	W	3.1	3	S
20251127.15	0.37	W	3.0	3	E
20251127.18	0.36	W	2.9	2	E
20251127.21	0.35	W	2.9	2	NE
20251128.00	0.35	W	2.9	4	SW
20251128.03	0.35	SW	2.6	4	SW
20251128.06	0.37	SW	2.5	4	W
20251128.09	0.39	SW	2.5	4	SW
20251128.12	0.40	SW	2.5	5	SW
20251128.15	0.37	SW	2.6	3	SW
20251128.18	0.33	SW	2.8	1	NE
20251128.21	0.30	SW	3.0	1	W
20251129.00	0.31	SW	2.8	1	W
20251129.03	0.33	SW	2.7	2	NW
20251129.06	0.33	SW	2.7	4	NW
20251129.09	0.33	SW	2.6	3	N
20251129.12	0.34	SW	2.7	3	SW

Wind condition in the Fetisovo

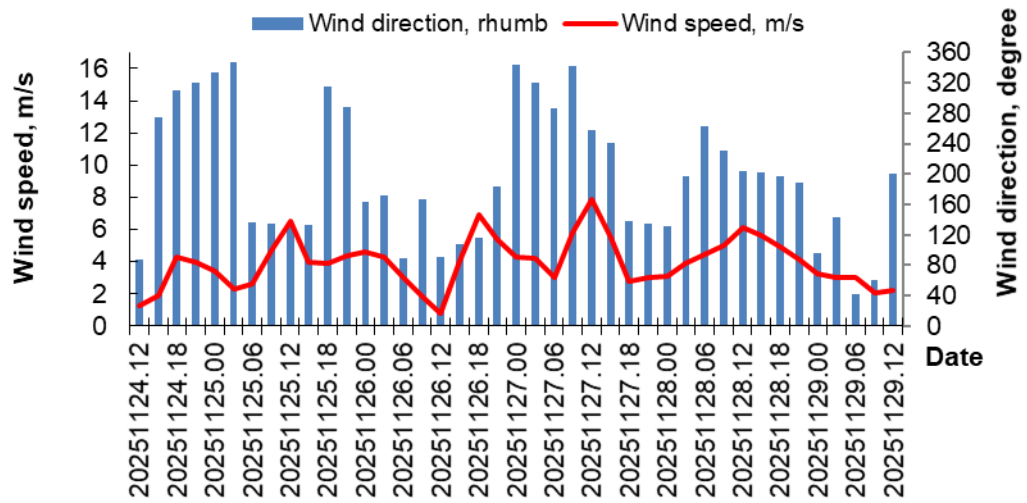


Wave condition in the Fetisovo

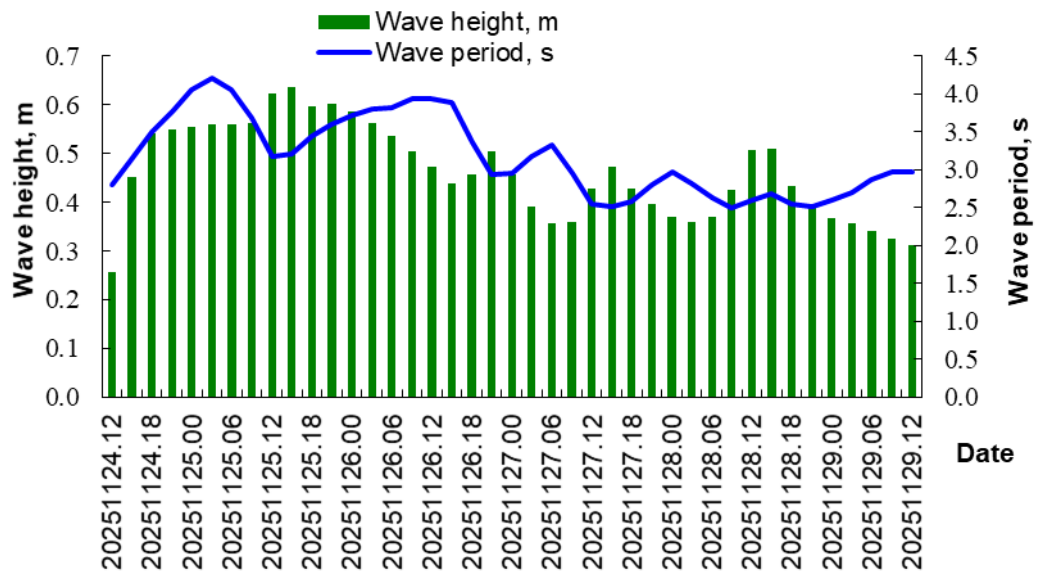


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251124.12	0.18	NW	2.3	0	SE
20251124.15	0.33	NW	2.7	2	W
20251124.18	0.41	NW	2.9	5	W
20251124.21	0.45	N	3.0	4	W
20251125.00	0.48	N	3.3	3	E
20251125.03	0.50	N	3.7	3	SE
20251125.06	0.54	N	3.7	3	SE
20251125.09	0.56	NW	3.6	3	E
20251125.12	0.54	NW	3.7	4	NE
20251125.15	0.50	N	3.7	4	NE
20251125.18	0.51	N	3.5	2	NW
20251125.21	0.52	N	3.5	2	N
20251126.00	0.50	N	3.6	2	SW
20251126.03	0.49	N	3.7	2	E
20251126.06	0.48	N	3.7	5	NE
20251126.09	0.46	N	3.6	3	E
20251126.12	0.44	N	3.8	3	SW
20251126.15	0.43	N	3.8	5	S
20251126.18	0.50	NW	3.3	7	E
20251126.21	0.54	NW	3.0	4	SE
20251127.00	0.48	NW	3.2	2	NE
20251127.03	0.43	N	3.5	1	NE
20251127.06	0.42	NW	3.4	2	N
20251127.09	0.42	NW	3.2	2	SW
20251127.12	0.39	NW	3.1	4	E
20251127.15	0.36	NW	3.1	3	E
20251127.18	0.36	NW	2.9	1	SE
20251127.21	0.37	W	2.8	2	S
20251128.00	0.35	W	2.8	2	SW
20251128.03	0.35	W	2.6	5	SW
20251128.06	0.40	SW	2.4	6	W
20251128.09	0.44	SW	2.5	6	N
20251128.12	0.41	SW	2.5	4	NW
20251128.15	0.36	SW	2.5	2	NW
20251128.18	0.31	SW	2.7	1	E
20251128.21	0.30	SW	2.7	1	N
20251129.00	0.32	SW	2.6	3	NW
20251129.03	0.35	SW	2.6	2	NW
20251129.06	0.34	SW	2.7	2	SW
20251129.09	0.32	SW	2.7	3	SW
20251129.12	0.32	SW	2.5	4	SW

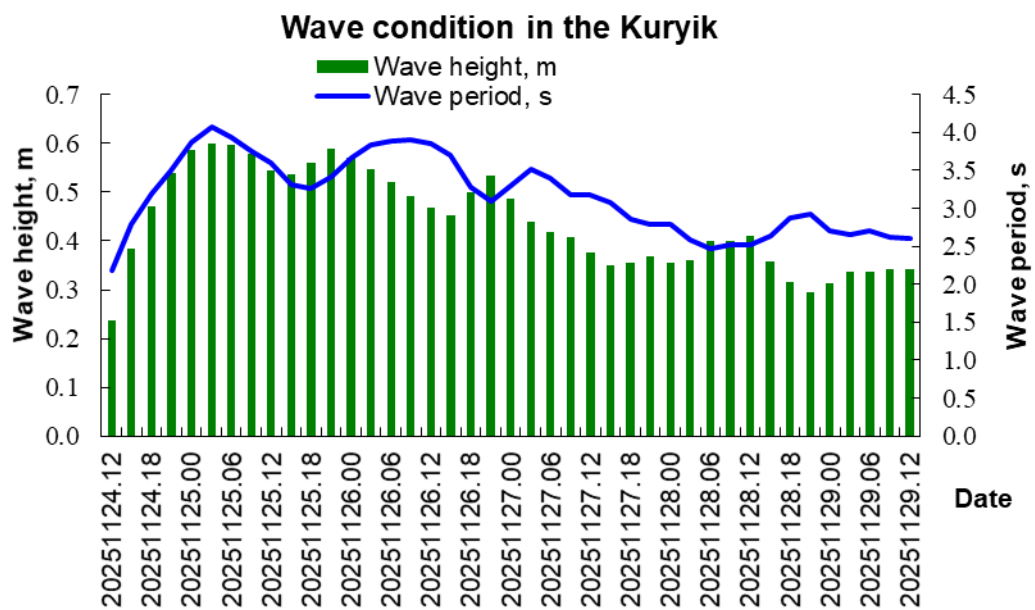
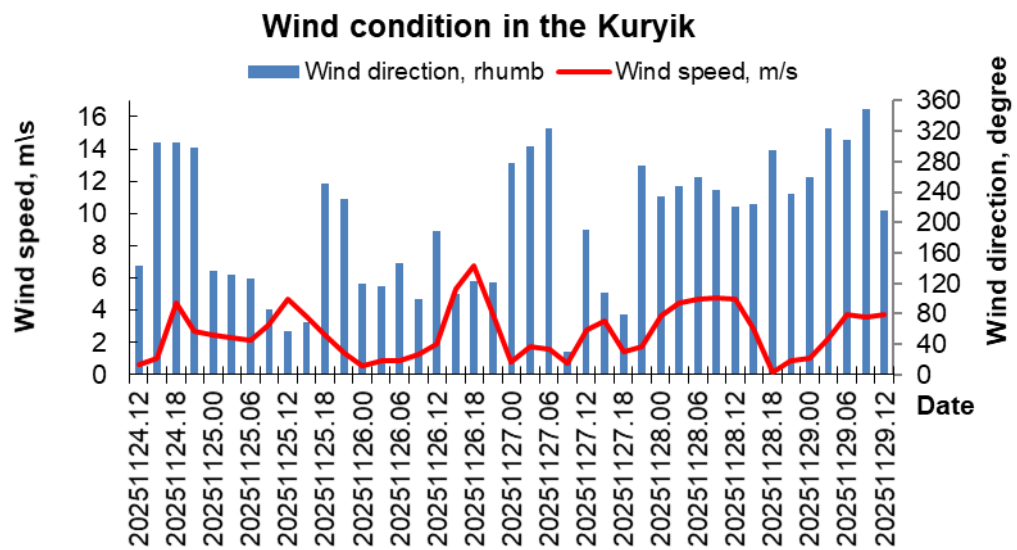
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251124.12	0.26	N	2.8	1	E
20251124.15	0.45	N	3.2	2	W
20251124.18	0.54	N	3.5	4	NW
20251124.21	0.55	N	3.8	4	NW
20251125.00	0.55	N	4.1	3	NW
20251125.03	0.56	N	4.2	2	N
20251125.06	0.56	N	4.1	3	SE
20251125.09	0.56	N	3.7	5	SE
20251125.12	0.62	N	3.2	7	SE
20251125.15	0.64	NW	3.2	4	SE
20251125.18	0.60	N	3.4	4	NW
20251125.21	0.60	N	3.6	4	W
20251126.00	0.59	N	3.7	5	S
20251126.03	0.56	N	3.8	4	S
20251126.06	0.54	N	3.8	3	E
20251126.09	0.51	NE	3.9	2	S
20251126.12	0.47	NE	3.9	1	E
20251126.15	0.44	NE	3.9	4	E
20251126.18	0.46	N	3.4	7	SE
20251126.21	0.50	NW	2.9	5	S
20251127.00	0.46	NW	2.9	4	N
20251127.03	0.39	N	3.2	4	NW
20251127.06	0.36	NE	3.3	3	W
20251127.09	0.36	E	3.0	6	N
20251127.12	0.43	SE	2.5	8	W
20251127.15	0.47	S	2.5	6	SW
20251127.18	0.43	S	2.6	3	SE
20251127.21	0.40	SW	2.8	3	SE
20251128.00	0.37	SW	3.0	3	SE
20251128.03	0.36	SW	2.8	4	S
20251128.06	0.37	SW	2.6	4	W
20251128.09	0.43	SW	2.5	5	SW
20251128.12	0.51	SW	2.6	6	SW
20251128.15	0.51	SW	2.7	6	S
20251128.18	0.43	SW	2.5	5	S
20251128.21	0.39	SW	2.5	4	S
20251129.00	0.37	SW	2.6	3	E
20251129.03	0.36	SW	2.7	3	SE
20251129.06	0.34	SW	2.9	3	NE
20251129.09	0.33	SW	3.0	2	NE
20251129.12	0.31	SW	3.0	2	S



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251124.12	0.24	NW	2.2	1	SE
20251124.15	0.38	NW	2.8	1	NW
20251124.18	0.47	NW	3.2	4	NW
20251124.21	0.54	N	3.5	3	NW
20251125.00	0.59	N	3.9	2	SE
20251125.03	0.60	N	4.1	2	SE
20251125.06	0.60	N	3.9	2	SE
20251125.09	0.58	N	3.7	3	E
20251125.12	0.54	N	3.6	5	NE
20251125.15	0.54	N	3.3	4	E
20251125.18	0.56	N	3.3	2	W
20251125.21	0.59	NE	3.4	1	SW
20251126.00	0.57	NE	3.7	1	SE
20251126.03	0.55	NE	3.8	1	SE
20251126.06	0.52	NE	3.9	1	SE
20251126.09	0.49	NE	3.9	1	E
20251126.12	0.47	NE	3.9	2	S
20251126.15	0.45	N	3.7	5	E
20251126.18	0.50	N	3.3	7	SE
20251126.21	0.53	NW	3.1	4	SE
20251127.00	0.49	NW	3.3	1	W
20251127.03	0.44	N	3.5	2	NW
20251127.06	0.42	N	3.4	2	NW
20251127.09	0.41	NW	3.2	1	NE
20251127.12	0.38	NW	3.2	3	S
20251127.15	0.35	NW	3.1	3	E
20251127.18	0.36	W	2.9	1	E
20251127.21	0.37	W	2.8	2	W
20251128.00	0.36	W	2.8	4	SW
20251128.03	0.36	SW	2.6	4	W
20251128.06	0.40	SW	2.5	5	W
20251128.09	0.40	SW	2.5	5	SW
20251128.12	0.41	SW	2.5	5	SW
20251128.15	0.36	SW	2.6	3	SW
20251128.18	0.31	SW	2.9	0	NW
20251128.21	0.29	SW	2.9	1	SW
20251129.00	0.31	SW	2.7	1	W
20251129.03	0.34	SW	2.7	2	NW
20251129.06	0.34	SW	2.7	4	NW
20251129.09	0.34	SW	2.6	4	N
20251129.12	0.34	SW	2.6	4	SW

**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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