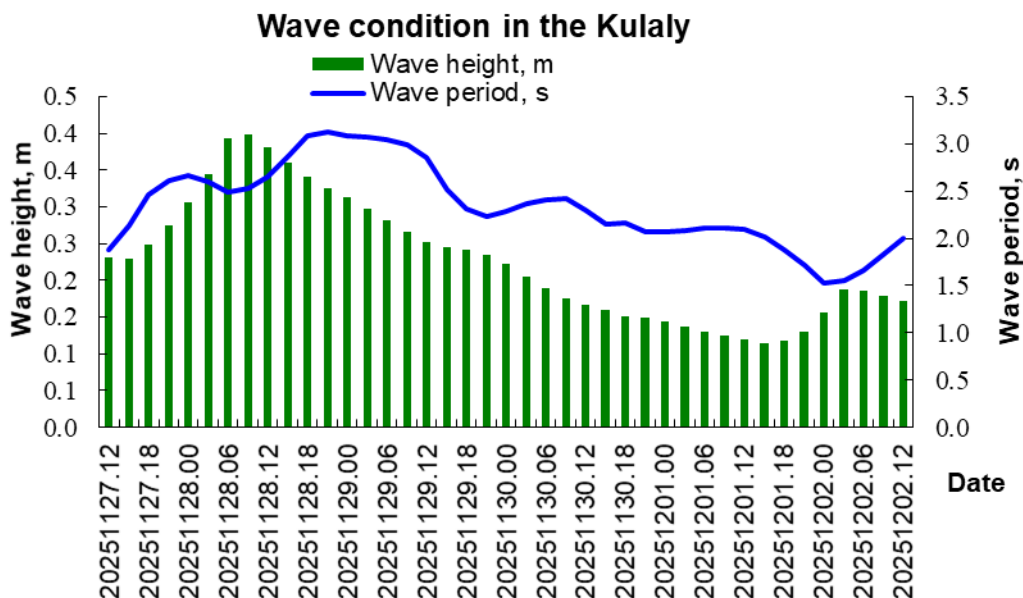
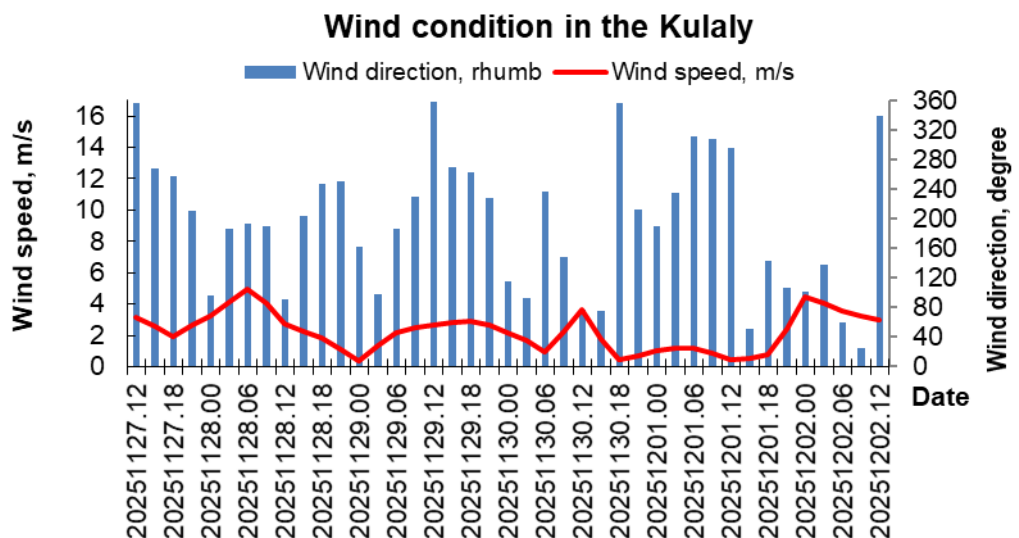




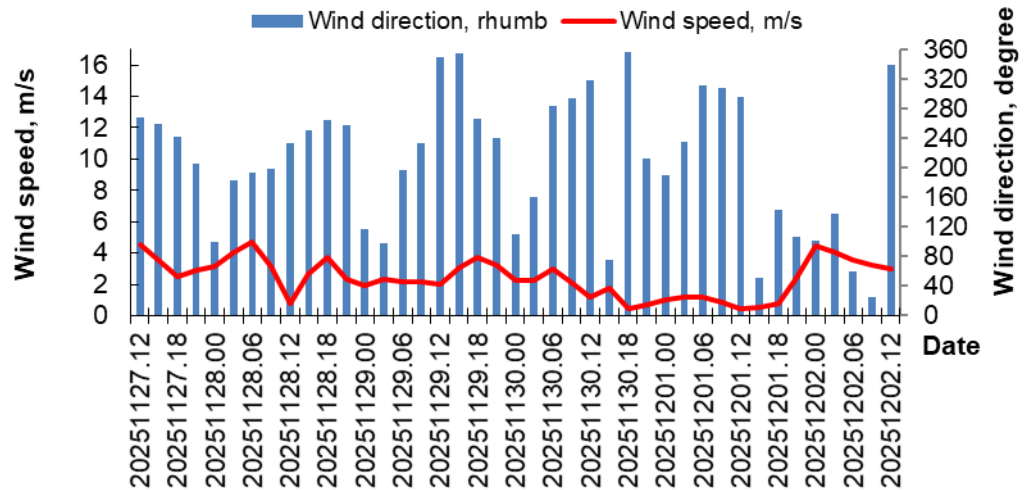
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 27 – December 02, 2025.**

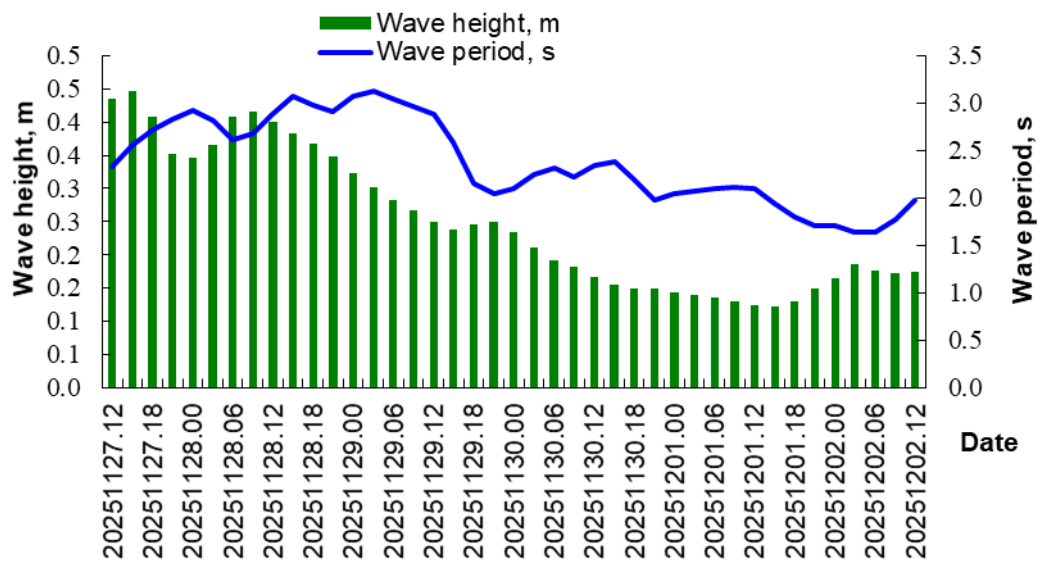


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251127.12	0.23	S	1.9	3	N
20251127.15	0.23	S	2.1	3	W
20251127.18	0.25	S	2.5	2	W
20251127.21	0.28	S	2.6	3	SW
20251128.00	0.31	S	2.7	3	E
20251128.03	0.34	S	2.6	4	S
20251128.06	0.39	SW	2.5	5	S
20251128.09	0.40	SW	2.5	4	S
20251128.12	0.38	S	2.7	3	E
20251128.15	0.36	S	2.9	2	SW
20251128.18	0.34	S	3.1	2	SW
20251128.21	0.33	S	3.1	1	W
20251129.00	0.31	S	3.1	0	S
20251129.03	0.30	S	3.1	1	E
20251129.06	0.28	S	3.0	2	S
20251129.09	0.27	S	3.0	2	SW
20251129.12	0.25	S	2.9	3	N
20251129.15	0.24	S	2.5	3	W
20251129.18	0.24	S	2.3	3	W
20251129.21	0.24	S	2.2	3	SW
20251130.00	0.22	S	2.3	2	SE
20251130.03	0.20	S	2.4	2	E
20251130.06	0.19	S	2.4	1	SW
20251130.09	0.18	SW	2.4	2	SE
20251130.12	0.17	SW	2.3	4	E
20251130.15	0.16	SW	2.1	2	E
20251130.18	0.15	SW	2.2	0	N
20251130.21	0.15	SW	2.1	1	SW
20251201.00	0.14	SW	2.1	1	S
20251201.03	0.14	SW	2.1	1	SW
20251201.06	0.13	SW	2.1	1	NW
20251201.09	0.12	SW	2.1	1	NW
20251201.12	0.12	SW	2.1	0	NW
20251201.15	0.12	SW	2.0	1	NE
20251201.18	0.12	S	1.9	1	SE
20251201.21	0.13	S	1.7	2	E
20251202.00	0.16	SW	1.5	4	E
20251202.03	0.19	W	1.6	4	SE
20251202.06	0.19	W	1.7	4	NE
20251202.09	0.18	W	1.8	3	NE
20251202.12	0.17	W	2.0	3	N

Wind condition in the Fort-Shevchenko

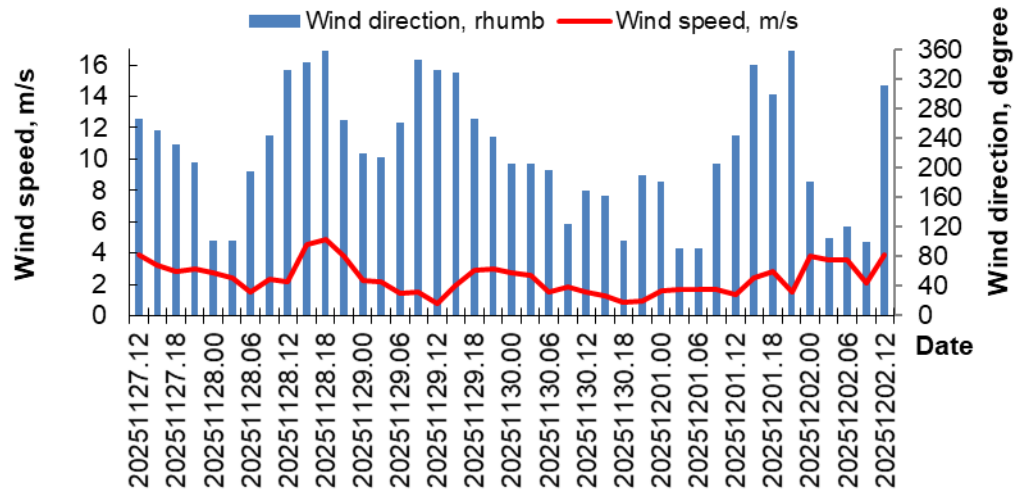


Wave condition in the Fort-Shevchenko

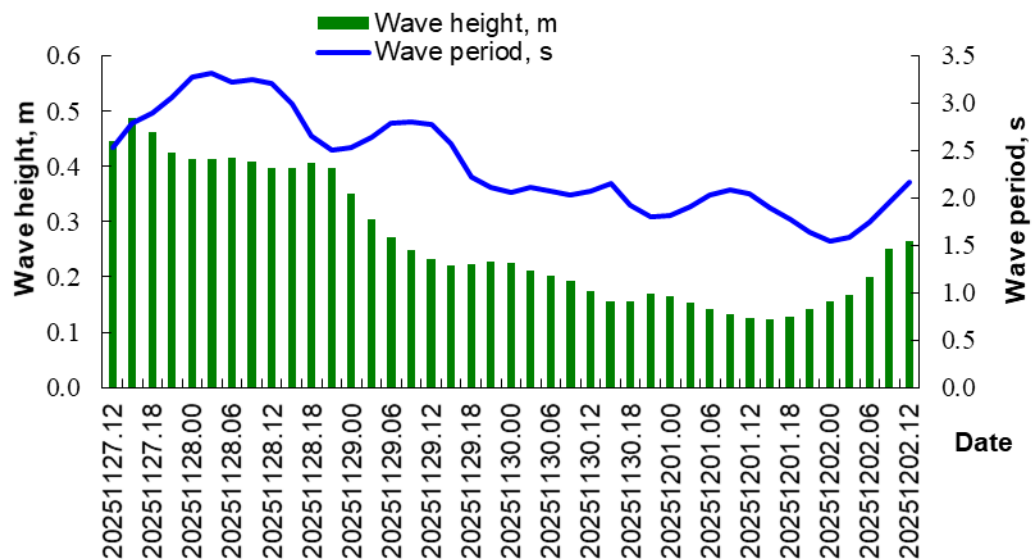


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251127.12	0.44	S	2.3	5	W
20251127.15	0.45	S	2.6	4	W
20251127.18	0.41	S	2.7	2	SW
20251127.21	0.35	S	2.8	3	SW
20251128.00	0.35	S	2.9	3	E
20251128.03	0.37	S	2.8	4	S
20251128.06	0.41	S	2.6	5	S
20251128.09	0.42	S	2.7	3	S
20251128.12	0.40	S	2.9	1	SW
20251128.15	0.38	S	3.1	3	W
20251128.18	0.37	S	3.0	4	W
20251128.21	0.35	S	2.9	2	W
20251129.00	0.32	S	3.1	2	SE
20251129.03	0.30	S	3.1	2	E
20251129.06	0.28	S	3.0	2	S
20251129.09	0.27	S	3.0	2	SW
20251129.12	0.25	S	2.9	2	N
20251129.15	0.24	S	2.6	3	N
20251129.18	0.24	S	2.1	4	W
20251129.21	0.25	S	2.0	3	SW
20251130.00	0.23	S	2.1	2	E
20251130.03	0.21	S	2.2	2	S
20251130.06	0.19	S	2.3	3	W
20251130.09	0.18	S	2.2	2	NW
20251130.12	0.17	SW	2.3	1	NW
20251130.15	0.16	SW	2.4	2	E
20251130.18	0.15	SW	2.2	0	N
20251130.21	0.15	SW	2.0	1	SW
20251201.00	0.14	SW	2.0	1	S
20251201.03	0.14	SW	2.1	1	SW
20251201.06	0.14	SW	2.1	1	NW
20251201.09	0.13	SW	2.1	1	NW
20251201.12	0.12	SW	2.1	0	NW
20251201.15	0.12	SW	1.9	1	NE
20251201.18	0.13	S	1.8	1	SE
20251201.21	0.15	SE	1.7	2	E
20251202.00	0.16	S	1.7	4	E
20251202.03	0.19	W	1.6	4	SE
20251202.06	0.18	W	1.6	4	NE
20251202.09	0.17	W	1.8	3	NE
20251202.12	0.17	SW	2.0	3	N

Wind condition in the Aktau

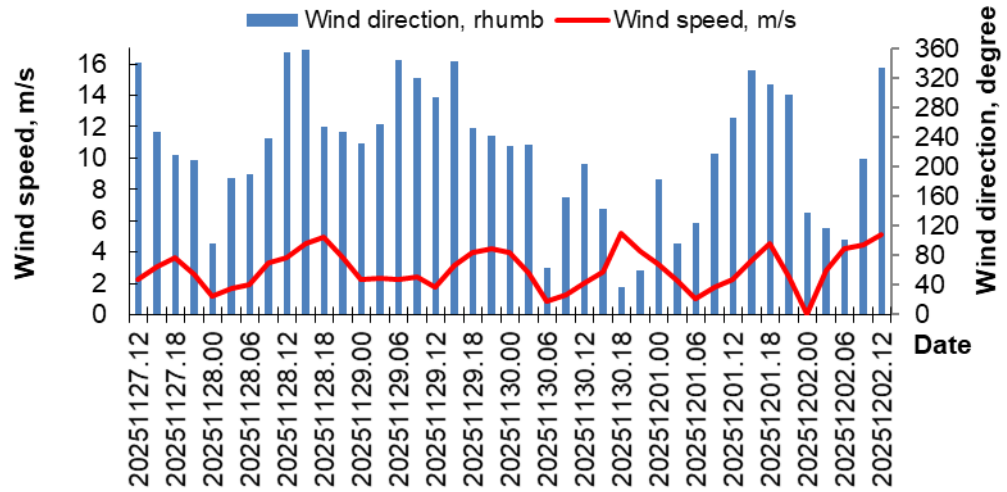


Wave condition in the Aktau

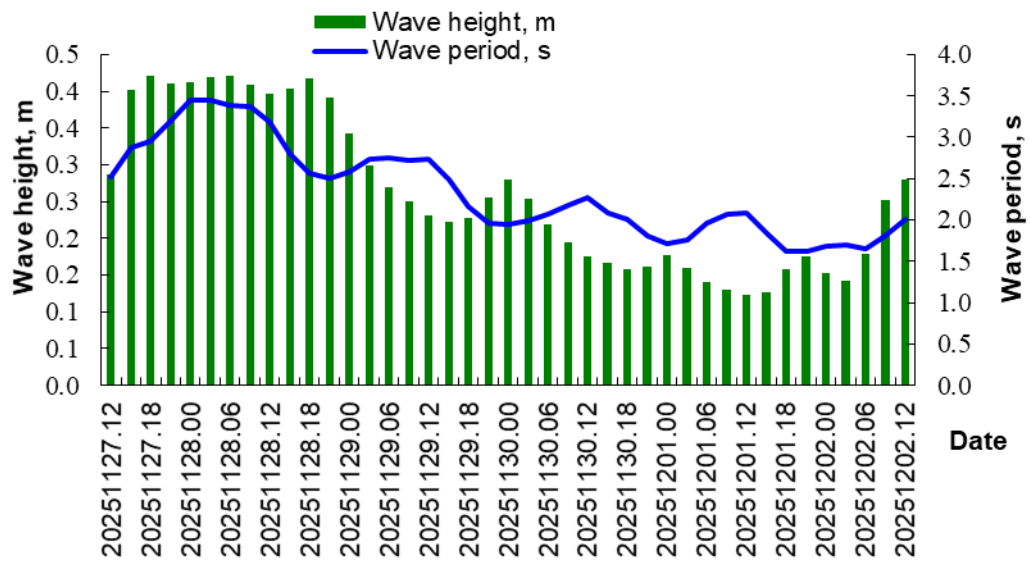


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20251127.12	0.45	S	2.5	4	W
20251127.15	0.49	S	2.8	3	W
20251127.18	0.46	S	2.9	3	SW
20251127.21	0.42	S	3.1	3	SW
20251128.00	0.41	S	3.3	3	E
20251128.03	0.41	S	3.3	2	E
20251128.06	0.42	S	3.2	2	S
20251128.09	0.41	S	3.2	2	SW
20251128.12	0.40	S	3.2	2	NW
20251128.15	0.40	S	3.0	5	N
20251128.18	0.41	S	2.7	5	N
20251128.21	0.40	S	2.5	4	W
20251129.00	0.35	S	2.5	2	SW
20251129.03	0.30	S	2.6	2	SW
20251129.06	0.27	S	2.8	1	W
20251129.09	0.25	SW	2.8	1	N
20251129.12	0.23	SW	2.8	1	NW
20251129.15	0.22	SW	2.6	2	NW
20251129.18	0.22	SW	2.2	3	W
20251129.21	0.23	S	2.1	3	SW
20251130.00	0.22	SW	2.1	3	SW
20251130.03	0.21	SW	2.1	3	SW
20251130.06	0.20	SW	2.1	1	S
20251130.09	0.19	SW	2.0	2	SE
20251130.12	0.17	SW	2.1	2	S
20251130.15	0.16	SW	2.2	1	S
20251130.18	0.16	SW	1.9	1	E
20251130.21	0.17	W	1.8	1	S
20251201.00	0.17	W	1.8	2	S
20251201.03	0.15	W	1.9	2	E
20251201.06	0.14	W	2.0	2	E
20251201.09	0.13	W	2.1	2	SW
20251201.12	0.13	W	2.0	1	SW
20251201.15	0.12	SW	1.9	2	N
20251201.18	0.13	SW	1.8	3	NW
20251201.21	0.14	S	1.6	1	N
20251202.00	0.16	S	1.5	4	S
20251202.03	0.17	SW	1.6	4	E
20251202.06	0.20	W	1.7	4	SE
20251202.09	0.25	W	2.0	2	E
20251202.12	0.26	W	2.2	4	NW

Wind condition in the Peschanyi

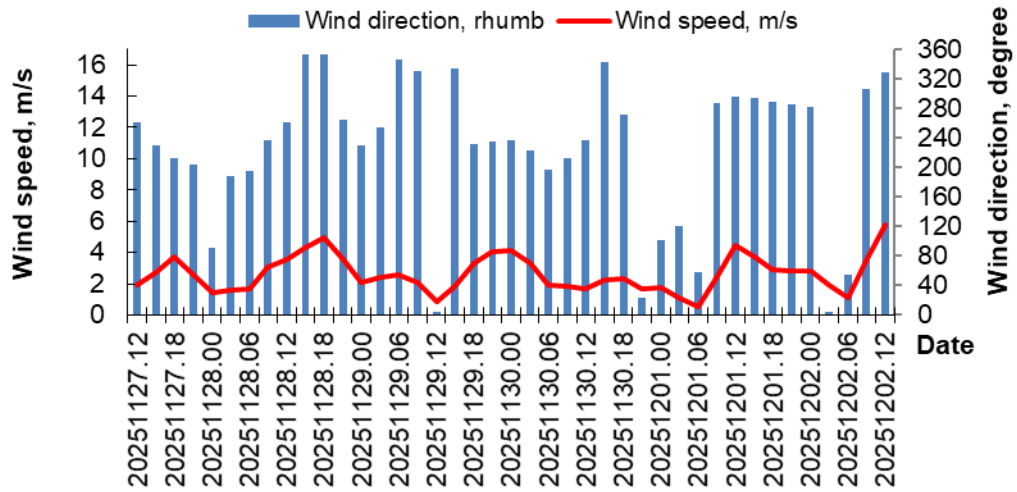


Wave condition in the Peschanyi

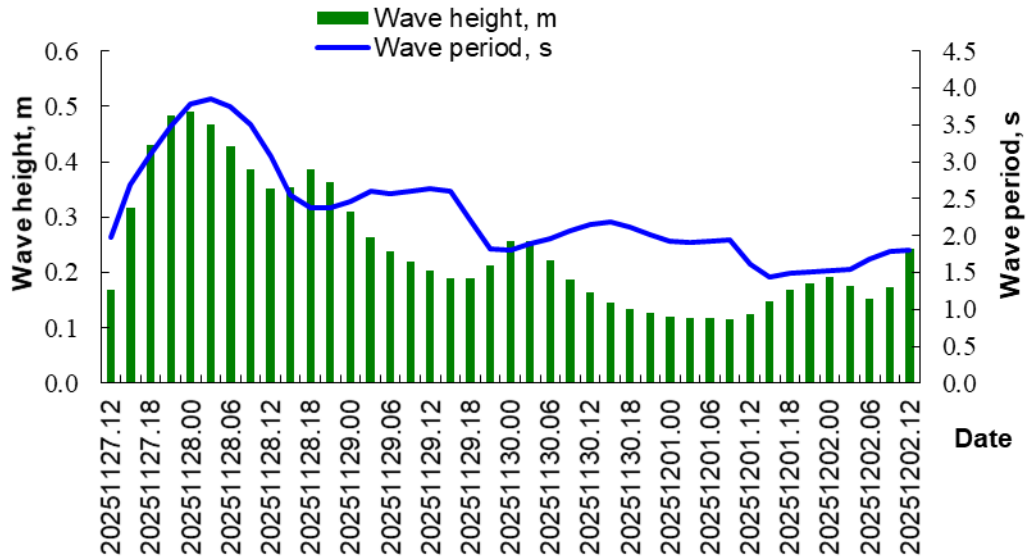


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251127.12	0.29	S	2.5	2	N
20251127.15	0.40	S	2.9	3	SW
20251127.18	0.42	S	3.0	4	SW
20251127.21	0.41	S	3.2	3	SW
20251128.00	0.41	S	3.5	1	E
20251128.03	0.42	S	3.5	2	S
20251128.06	0.42	S	3.4	2	S
20251128.09	0.41	S	3.4	3	SW
20251128.12	0.40	S	3.2	4	N
20251128.15	0.40	S	2.8	5	N
20251128.18	0.42	S	2.6	5	W
20251128.21	0.39	S	2.5	4	W
20251129.00	0.34	S	2.6	2	SW
20251129.03	0.30	S	2.7	2	W
20251129.06	0.27	SW	2.7	2	N
20251129.09	0.25	SW	2.7	2	NW
20251129.12	0.23	SW	2.7	2	NW
20251129.15	0.22	SW	2.5	3	N
20251129.18	0.23	SW	2.2	4	W
20251129.21	0.25	SW	2.0	4	SW
20251130.00	0.28	SW	1.9	4	SW
20251130.03	0.25	SW	2.0	3	SW
20251130.06	0.22	SW	2.1	1	NE
20251130.09	0.19	SW	2.2	1	S
20251130.12	0.18	SW	2.3	2	SW
20251130.15	0.17	SW	2.1	3	SE
20251130.18	0.16	SW	2.0	5	NE
20251130.21	0.16	W	1.8	4	NE
20251201.00	0.18	W	1.7	3	S
20251201.03	0.16	W	1.8	2	E
20251201.06	0.14	W	2.0	1	SE
20251201.09	0.13	W	2.1	2	SW
20251201.12	0.12	W	2.1	2	W
20251201.15	0.13	SW	1.8	3	NW
20251201.18	0.16	S	1.6	5	NW
20251201.21	0.18	S	1.6	2	NW
20251202.00	0.15	S	1.7	0	SE
20251202.03	0.14	SW	1.7	3	SE
20251202.06	0.18	W	1.7	4	E
20251202.09	0.25	W	1.8	4	SW
20251202.12	0.28	SW	2.0	5	NW

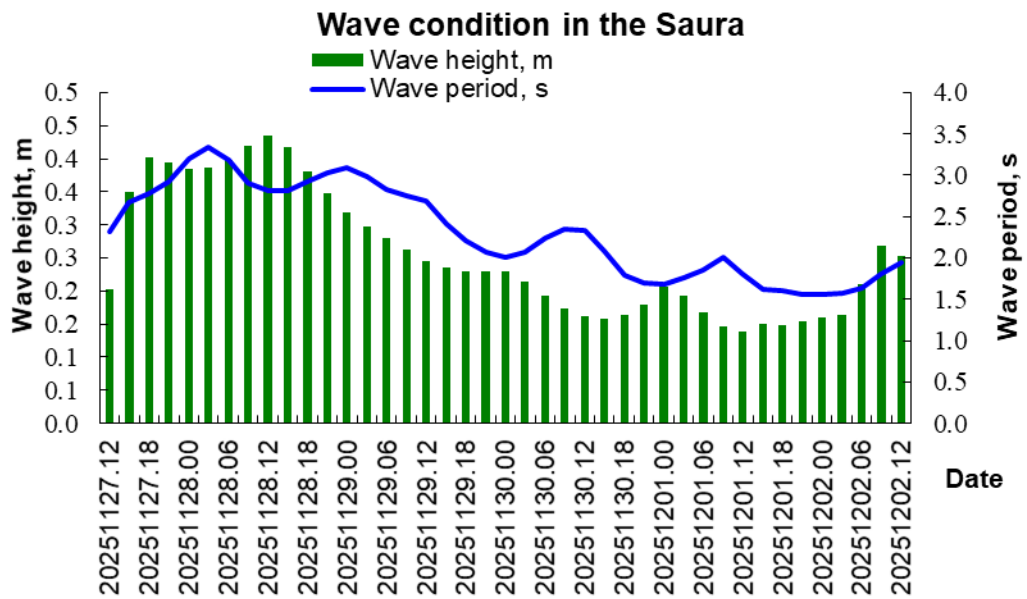
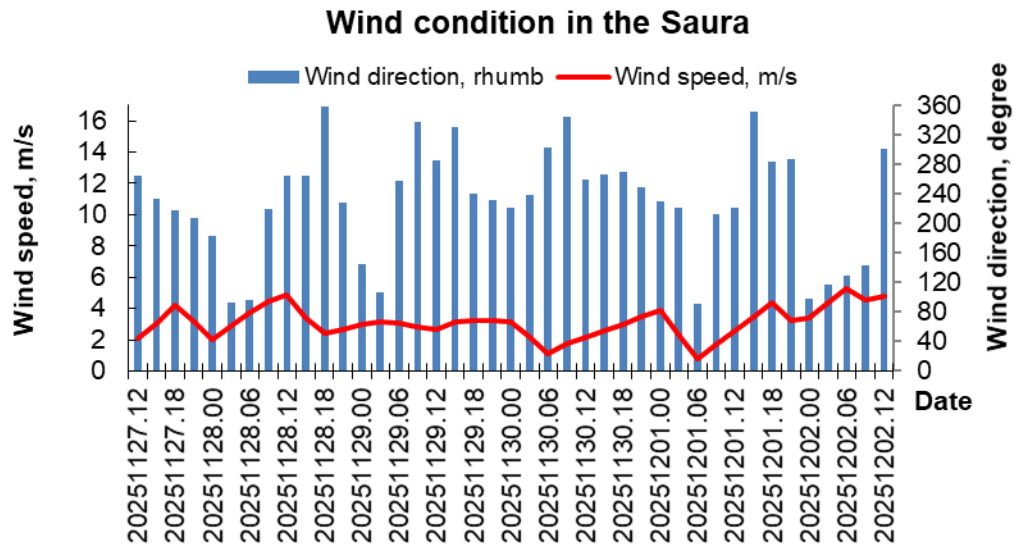
Wind condition in the Fetisovo



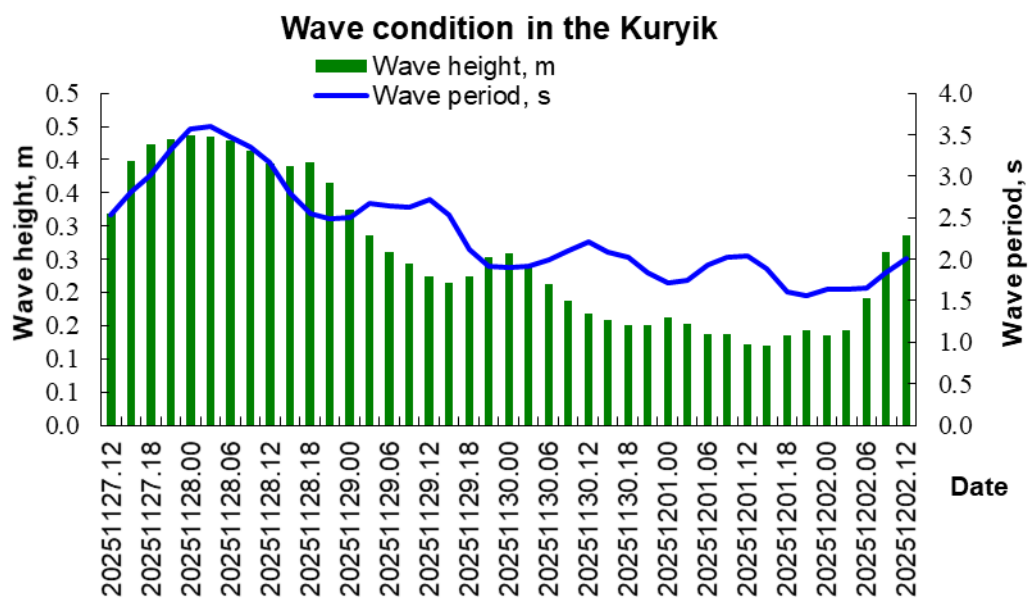
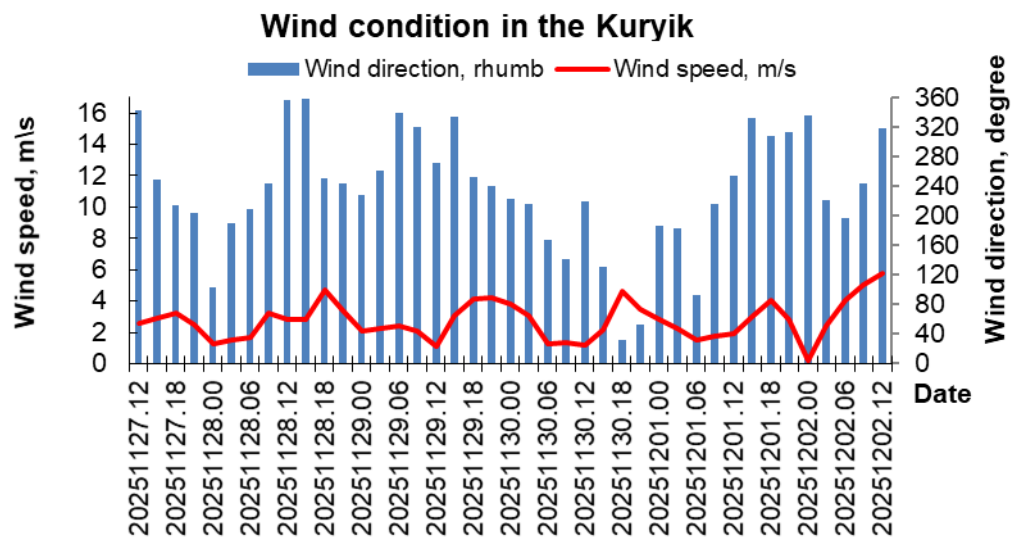
Wave condition in the Fetisovo



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251127.12	0.17	S	2.0	2	W
20251127.15	0.32	S	2.7	3	SW
20251127.18	0.43	S	3.1	4	SW
20251127.21	0.48	S	3.5	3	SW
20251128.00	0.49	S	3.8	1	E
20251128.03	0.47	S	3.9	2	S
20251128.06	0.43	S	3.7	2	S
20251128.09	0.39	S	3.5	3	SW
20251128.12	0.35	S	3.1	4	W
20251128.15	0.35	S	2.6	4	N
20251128.18	0.39	S	2.4	5	N
20251128.21	0.36	S	2.4	4	W
20251129.00	0.31	S	2.5	2	SW
20251129.03	0.26	S	2.6	2	W
20251129.06	0.24	SW	2.6	3	N
20251129.09	0.22	SW	2.6	2	NW
20251129.12	0.20	SW	2.6	1	N
20251129.15	0.19	SW	2.6	2	NW
20251129.18	0.19	SW	2.2	3	SW
20251129.21	0.21	SW	1.8	4	SW
20251130.00	0.26	SW	1.8	4	SW
20251130.03	0.26	SW	1.9	3	SW
20251130.06	0.22	SW	2.0	2	S
20251130.09	0.19	SW	2.1	2	SW
20251130.12	0.16	SW	2.2	2	SW
20251130.15	0.15	SW	2.2	2	N
20251130.18	0.13	SW	2.1	2	W
20251130.21	0.13	SW	2.0	2	NE
20251201.00	0.12	SW	1.9	2	E
20251201.03	0.12	W	1.9	1	SE
20251201.06	0.12	W	1.9	0	NE
20251201.09	0.12	W	1.9	3	W
20251201.12	0.13	SW	1.6	4	NW
20251201.15	0.15	S	1.4	4	NW
20251201.18	0.17	SE	1.5	3	W
20251201.21	0.18	SE	1.5	3	W
20251202.00	0.19	E	1.5	3	W
20251202.03	0.18	SE	1.6	2	N
20251202.06	0.15	S	1.7	1	NE
20251202.09	0.17	SW	1.8	3	NW
20251202.12	0.24	S	1.8	6	NW



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251127.12	0.20	S	2.3	2	W
20251127.15	0.35	S	2.7	3	SW
20251127.18	0.40	S	2.8	4	SW
20251127.21	0.39	S	2.9	3	SW
20251128.00	0.38	S	3.2	2	S
20251128.03	0.39	S	3.3	3	E
20251128.06	0.40	S	3.2	4	E
20251128.09	0.42	S	2.9	4	SW
20251128.12	0.43	S	2.8	5	W
20251128.15	0.42	S	2.8	3	W
20251128.18	0.38	S	2.9	2	N
20251128.21	0.35	S	3.0	3	SW
20251129.00	0.32	S	3.1	3	SE
20251129.03	0.30	S	3.0	3	E
20251129.06	0.28	S	2.8	3	W
20251129.09	0.26	S	2.7	3	NW
20251129.12	0.24	S	2.7	3	W
20251129.15	0.23	S	2.4	3	NW
20251129.18	0.23	S	2.2	3	SW
20251129.21	0.23	S	2.1	3	SW
20251130.00	0.23	SW	2.0	3	SW
20251130.03	0.21	SW	2.1	2	SW
20251130.06	0.19	SW	2.2	1	NW
20251130.09	0.17	SW	2.4	2	N
20251130.12	0.16	SW	2.3	2	W
20251130.15	0.16	SW	2.1	3	W
20251130.18	0.16	SW	1.8	3	W
20251130.21	0.18	SW	1.7	3	W
20251201.00	0.21	SW	1.7	4	SW
20251201.03	0.19	SW	1.8	2	SW
20251201.06	0.17	SW	1.9	1	E
20251201.09	0.15	SW	2.0	2	SW
20251201.12	0.14	SW	1.8	3	SW
20251201.15	0.15	SW	1.6	3	N
20251201.18	0.15	S	1.6	4	W
20251201.21	0.15	S	1.6	3	W
20251202.00	0.16	S	1.6	3	E
20251202.03	0.16	SW	1.6	4	SE
20251202.06	0.21	W	1.6	5	SE
20251202.09	0.27	W	1.8	5	SE
20251202.12	0.25	NW	1.9	5	NW



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251127.12	0.32	S	2.5	3	N
20251127.15	0.40	S	2.8	3	W
20251127.18	0.42	S	3.0	3	SW
20251127.21	0.43	S	3.3	2	SW
20251128.00	0.44	S	3.6	1	E
20251128.03	0.43	S	3.6	1	S
20251128.06	0.43	S	3.5	2	SW
20251128.09	0.41	S	3.4	3	SW
20251128.12	0.39	S	3.2	3	N
20251128.15	0.39	S	2.8	3	N
20251128.18	0.40	S	2.6	5	W
20251128.21	0.37	S	2.5	3	SW
20251129.00	0.32	S	2.5	2	SW
20251129.03	0.29	SW	2.7	2	W
20251129.06	0.26	SW	2.7	2	N
20251129.09	0.24	SW	2.6	2	NW
20251129.12	0.22	SW	2.7	1	W
20251129.15	0.21	SW	2.5	3	NW
20251129.18	0.22	SW	2.1	4	W
20251129.21	0.25	SW	1.9	4	SW
20251130.00	0.26	SW	1.9	4	SW
20251130.03	0.24	SW	1.9	3	SW
20251130.06	0.21	SW	2.0	1	S
20251130.09	0.19	SW	2.1	1	SE
20251130.12	0.17	SW	2.2	1	SW
20251130.15	0.16	SW	2.1	2	SE
20251130.18	0.15	SW	2.0	5	NE
20251130.21	0.15	W	1.8	3	NE
20251201.00	0.16	W	1.7	3	S
20251201.03	0.15	W	1.7	2	S
20251201.06	0.14	W	1.9	1	E
20251201.09	0.14	W	2.0	2	SW
20251201.12	0.12	W	2.0	2	W
20251201.15	0.12	W	1.9	3	NW
20251201.18	0.13	SW	1.6	4	NW
20251201.21	0.14	S	1.6	3	NW
20251202.00	0.13	S	1.6	0	NW
20251202.03	0.14	SW	1.6	2	SW
20251202.06	0.19	W	1.7	4	S
20251202.09	0.26	SW	1.8	5	SW
20251202.12	0.29	SW	2.0	6	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

Phone. (717)2 79 83 12; E-mail: ugmikm@meteo.kz