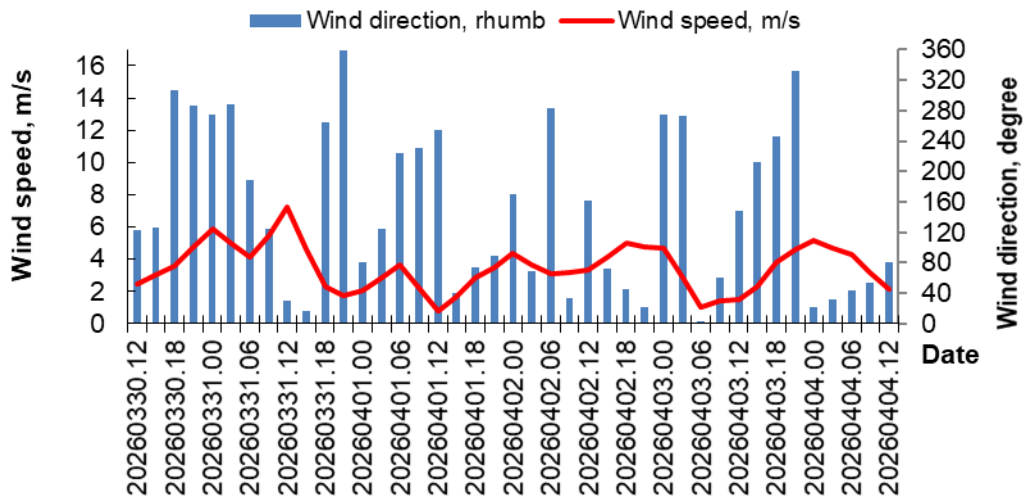




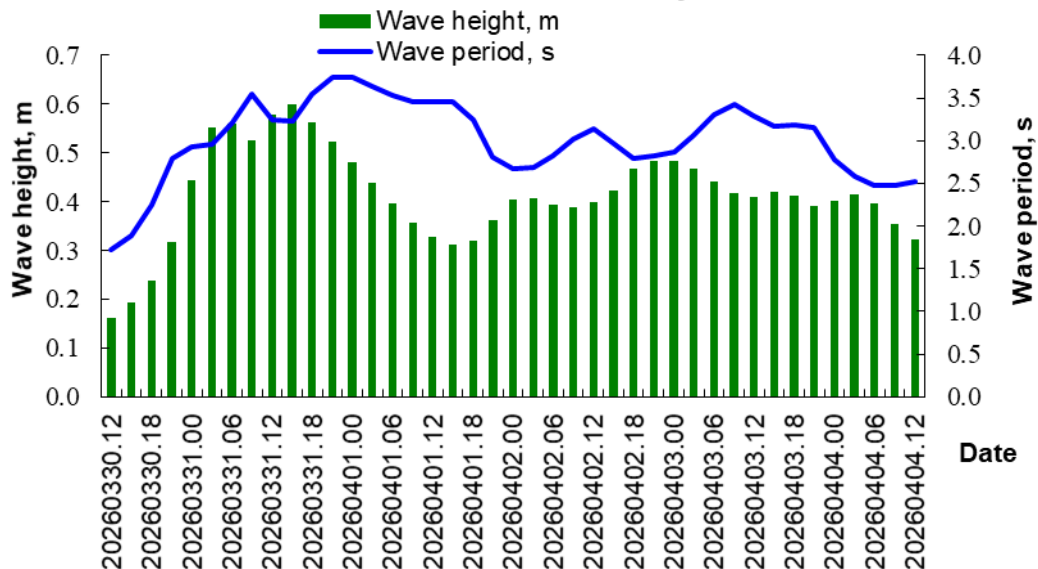
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period March 30 – April 04, 2026 .**

Wind condition in the Kulaly

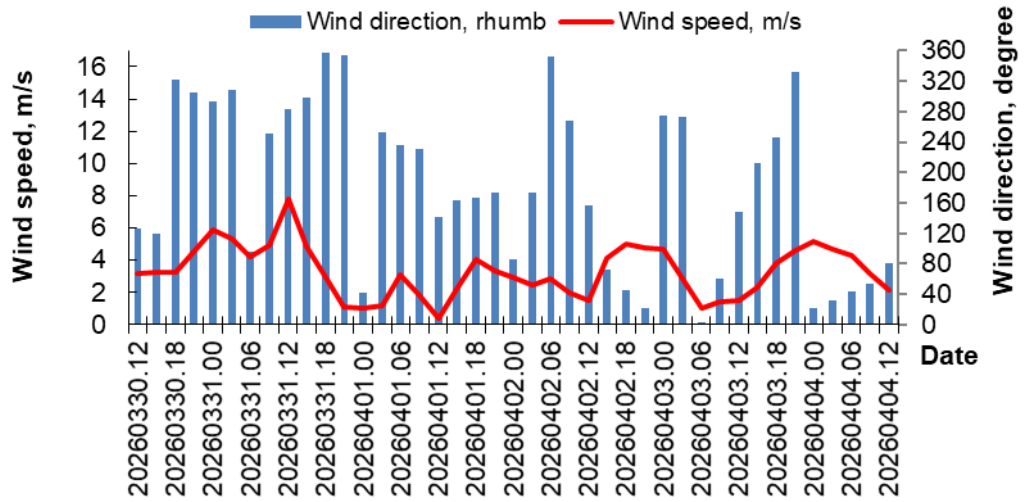


Wave condition in the Kulaly

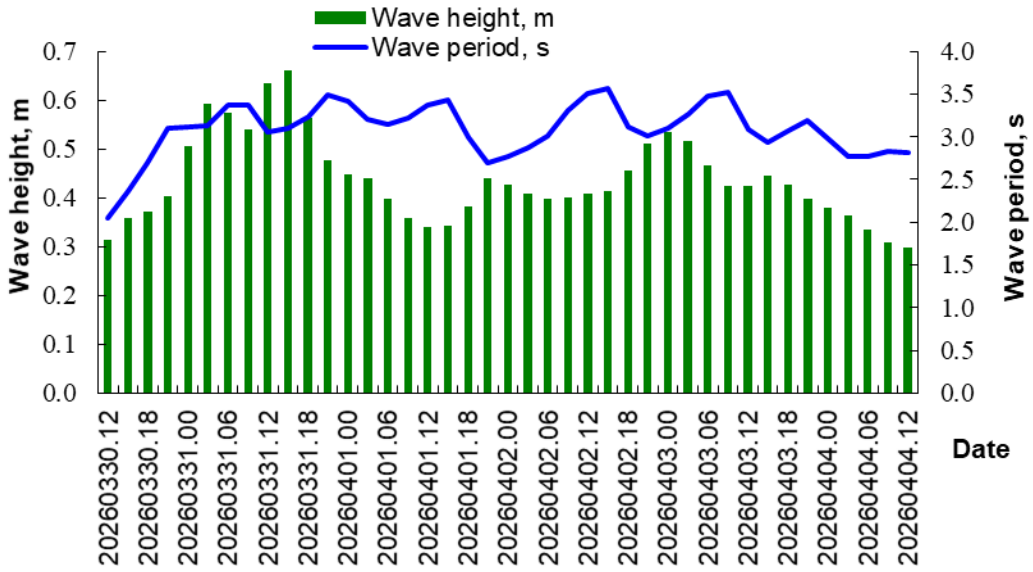


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260330.12	0.16	NW	1.7	2	SE
20260330.15	0.19	NW	1.9	3	SE
20260330.18	0.24	N	2.2	4	NW
20260330.21	0.32	N	2.8	5	W
20260331.00	0.44	NE	2.9	6	W
20260331.03	0.55	NE	3.0	5	W
20260331.06	0.56	NE	3.2	4	S
20260331.09	0.53	NE	3.5	5	SE
20260331.12	0.58	NE	3.2	7	NE
20260331.15	0.60	NE	3.2	5	N
20260331.18	0.56	E	3.6	2	W
20260331.21	0.52	E	3.7	2	N
20260401.00	0.48	E	3.7	2	E
20260401.03	0.44	NE	3.6	3	SE
20260401.06	0.40	NE	3.5	4	SW
20260401.09	0.36	NE	3.5	2	SW
20260401.12	0.33	NE	3.5	1	W
20260401.15	0.31	NE	3.5	2	NE
20260401.18	0.32	E	3.2	3	E
20260401.21	0.36	NE	2.8	4	E
20260402.00	0.40	NE	2.7	4	S
20260402.03	0.41	NE	2.7	4	E
20260402.06	0.39	NE	2.8	3	W
20260402.09	0.39	NE	3.0	3	NE
20260402.12	0.40	NE	3.1	3	S
20260402.15	0.42	NE	3.0	4	E
20260402.18	0.47	NE	2.8	5	NE
20260402.21	0.48	NE	2.8	5	N
20260403.00	0.48	NE	2.9	5	W
20260403.03	0.47	NE	3.1	3	W
20260403.06	0.44	NE	3.3	1	N
20260403.09	0.42	NE	3.4	1	NE
20260403.12	0.41	NE	3.3	2	SE
20260403.15	0.42	NE	3.2	2	SW
20260403.18	0.41	NE	3.2	4	SW
20260403.21	0.39	NE	3.2	5	NW
20260404.00	0.40	E	2.8	5	N
20260404.03	0.42	NE	2.6	5	NE
20260404.06	0.40	NE	2.5	4	NE
20260404.09	0.36	NE	2.5	3	NE
20260404.12	0.32	NE	2.5	2	E

Wind condition in the Fort-Shevchenko

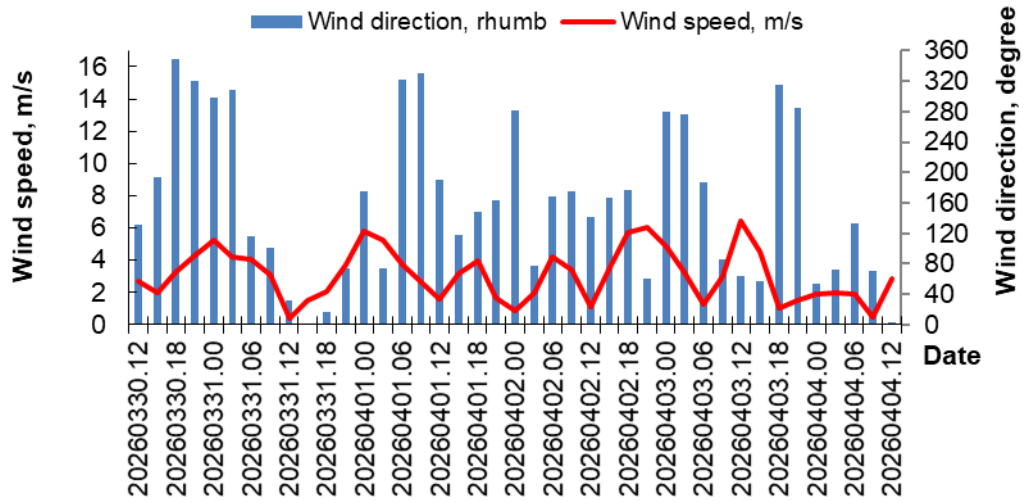


Wave condition in the Fort-Shevchenko

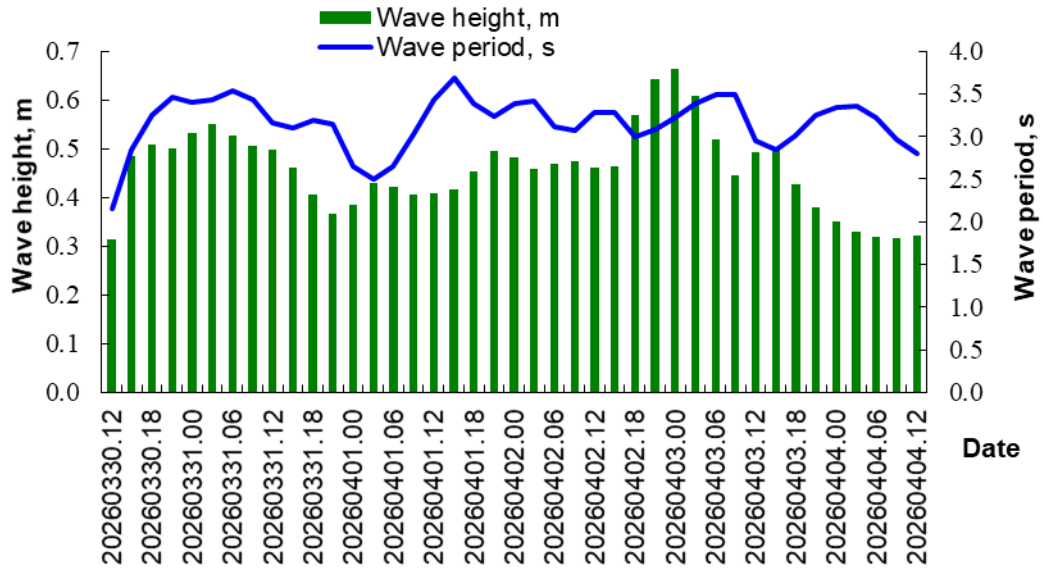


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260330.12	0.31	NW	2.1	3	SE
20260330.15	0.36	NW	2.4	3	SE
20260330.18	0.37	N	2.7	3	NW
20260330.21	0.40	N	3.1	5	NW
20260331.00	0.51	NE	3.1	6	NW
20260331.03	0.59	NE	3.1	5	NW
20260331.06	0.58	NE	3.4	4	E
20260331.09	0.54	NE	3.4	5	W
20260331.12	0.64	E	3.1	8	W
20260331.15	0.66	E	3.1	5	NW
20260331.18	0.56	E	3.2	3	N
20260331.21	0.48	E	3.5	1	N
20260401.00	0.45	NE	3.4	1	NE
20260401.03	0.44	NE	3.2	1	W
20260401.06	0.40	NE	3.1	3	SW
20260401.09	0.36	NE	3.2	2	SW
20260401.12	0.34	NE	3.4	0	SE
20260401.15	0.34	NE	3.4	2	S
20260401.18	0.38	NE	3.0	4	S
20260401.21	0.44	NE	2.7	3	S
20260402.00	0.43	NE	2.8	3	E
20260402.03	0.41	NE	2.9	2	S
20260402.06	0.40	NE	3.0	3	N
20260402.09	0.40	NE	3.3	2	W
20260402.12	0.41	NE	3.5	2	SE
20260402.15	0.41	NE	3.6	4	E
20260402.18	0.46	NE	3.1	5	NE
20260402.21	0.51	NE	3.0	5	N
20260403.00	0.53	NE	3.1	5	W
20260403.03	0.52	NE	3.3	3	W
20260403.06	0.47	NE	3.5	1	N
20260403.09	0.42	NE	3.5	1	NE
20260403.12	0.42	NE	3.1	2	SE
20260403.15	0.45	NE	2.9	2	SW
20260403.18	0.43	NE	3.1	4	SW
20260403.21	0.40	NE	3.2	5	NW
20260404.00	0.38	NE	3.0	5	N
20260404.03	0.36	NE	2.8	5	NE
20260404.06	0.34	NE	2.8	4	NE
20260404.09	0.31	NE	2.8	3	NE
20260404.12	0.30	NE	2.8	2	E

Wind condition in the Aktau

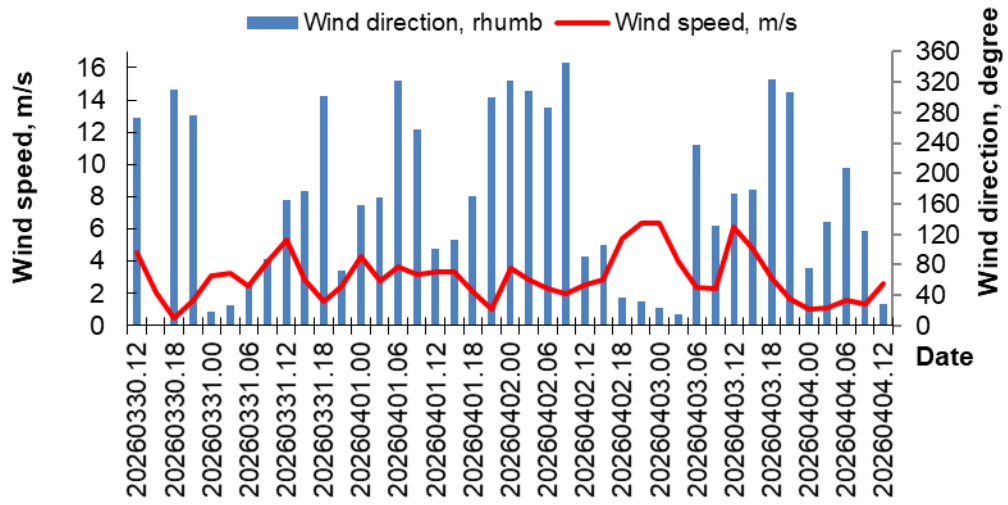


Wave condition in the Aktau

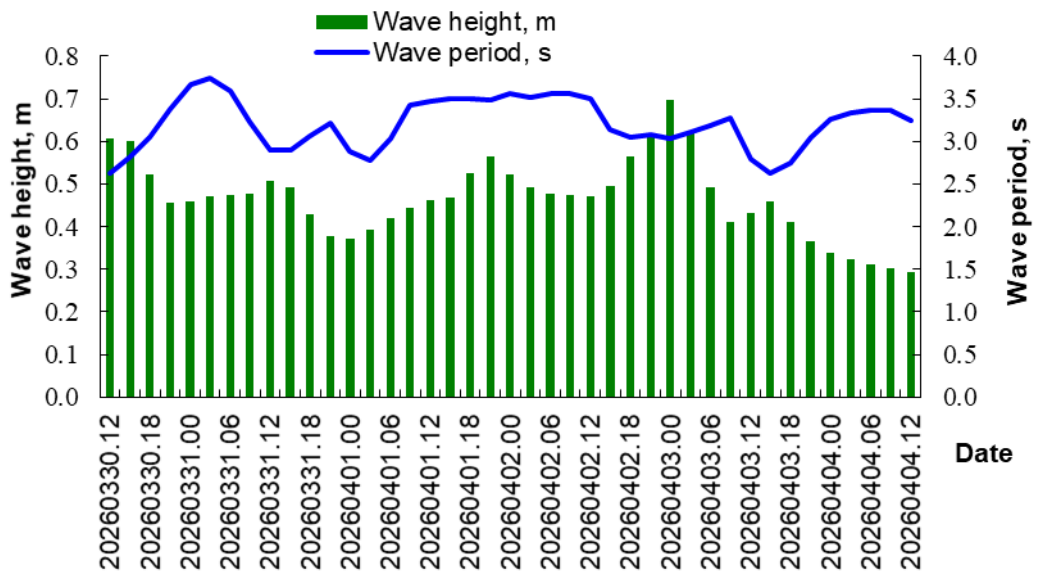


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260330.12	0.31	NW	2.2	3	SE
20260330.15	0.48	N	2.8	2	S
20260330.18	0.51	NE	3.3	3	N
20260330.21	0.50	NE	3.5	4	NW
20260331.00	0.53	NE	3.4	5	NW
20260331.03	0.55	NE	3.4	4	NW
20260331.06	0.53	NE	3.5	4	SE
20260331.09	0.51	N	3.4	3	E
20260331.12	0.50	N	3.2	0	NE
20260331.15	0.46	N	3.1	2	N
20260331.18	0.41	N	3.2	2	N
20260331.21	0.37	N	3.1	4	E
20260401.00	0.39	N	2.6	6	S
20260401.03	0.43	N	2.5	5	E
20260401.06	0.42	N	2.7	4	NW
20260401.09	0.41	NE	3.0	3	NW
20260401.12	0.41	NE	3.4	2	S
20260401.15	0.42	NE	3.7	3	SE
20260401.18	0.45	NE	3.4	4	SE
20260401.21	0.49	N	3.2	2	S
20260402.00	0.48	NE	3.4	1	W
20260402.03	0.46	NE	3.4	2	E
20260402.06	0.47	NE	3.1	4	S
20260402.09	0.47	NE	3.1	3	S
20260402.12	0.46	NE	3.3	1	SE
20260402.15	0.46	NE	3.3	3	S
20260402.18	0.57	NE	3.0	6	S
20260402.21	0.64	NE	3.1	6	NE
20260403.00	0.66	NE	3.2	5	W
20260403.03	0.61	NE	3.4	3	W
20260403.06	0.52	NE	3.5	1	S
20260403.09	0.45	NE	3.5	3	E
20260403.12	0.49	NE	3.0	6	NE
20260403.15	0.50	NE	2.8	4	NE
20260403.18	0.43	NE	3.0	1	NW
20260403.21	0.38	NE	3.3	2	W
20260404.00	0.35	NE	3.3	2	NE
20260404.03	0.33	NE	3.4	2	E
20260404.06	0.32	NE	3.2	2	SE
20260404.09	0.32	NE	3.0	0	E
20260404.12	0.32	NE	2.8	3	N

Wind condition in the Peschanyi

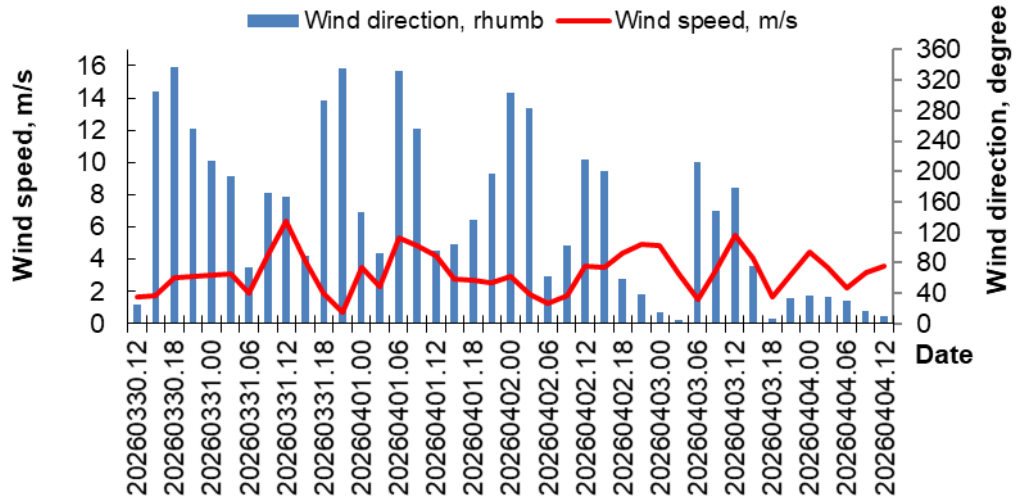


Wave condition in the Peschanyi

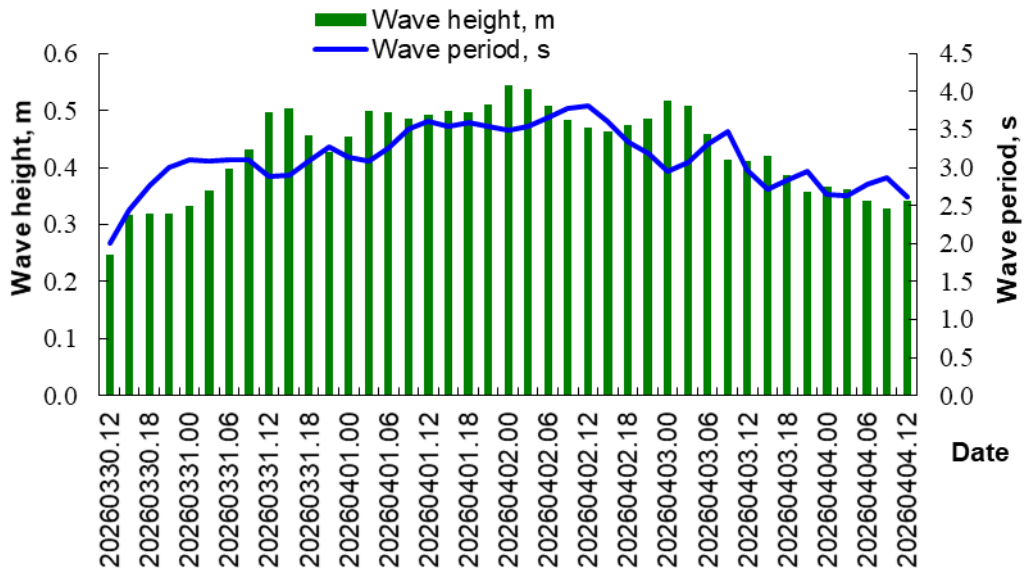


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260330.12	0.61	E	2.6	5	W
20260330.15	0.60	E	2.8	2	N
20260330.18	0.52	E	3.0	0	NW
20260330.21	0.46	NE	3.4	2	W
20260331.00	0.46	N	3.7	3	N
20260331.03	0.47	N	3.7	3	NE
20260331.06	0.47	N	3.6	2	NE
20260331.09	0.48	N	3.2	4	E
20260331.12	0.51	N	2.9	5	S
20260331.15	0.49	N	2.9	3	S
20260331.18	0.43	N	3.1	2	NW
20260331.21	0.38	N	3.2	2	E
20260401.00	0.37	N	2.9	4	S
20260401.03	0.39	N	2.8	3	S
20260401.06	0.42	N	3.0	4	NW
20260401.09	0.44	NE	3.4	3	W
20260401.12	0.46	NE	3.5	3	E
20260401.15	0.47	NE	3.5	3	SE
20260401.18	0.53	NE	3.5	2	S
20260401.21	0.57	N	3.5	1	NW
20260402.00	0.52	NE	3.6	4	NW
20260402.03	0.49	NE	3.5	3	NW
20260402.06	0.48	NE	3.6	2	W
20260402.09	0.47	NE	3.6	2	N
20260402.12	0.47	NE	3.5	3	E
20260402.15	0.50	NE	3.1	3	E
20260402.18	0.56	NE	3.1	5	NE
20260402.21	0.62	NE	3.1	6	NE
20260403.00	0.70	NE	3.0	6	NE
20260403.03	0.62	NE	3.1	4	N
20260403.06	0.49	NE	3.2	2	SW
20260403.09	0.41	NE	3.3	2	SE
20260403.12	0.43	NE	2.8	6	S
20260403.15	0.46	NE	2.6	5	S
20260403.18	0.41	NE	2.7	3	NW
20260403.21	0.36	NE	3.1	2	NW
20260404.00	0.34	NE	3.3	1	E
20260404.03	0.32	NE	3.3	1	SE
20260404.06	0.31	NE	3.4	2	SW
20260404.09	0.30	NE	3.4	1	SE
20260404.12	0.29	NE	3.3	3	NE

Wind condition in the Fetisovo

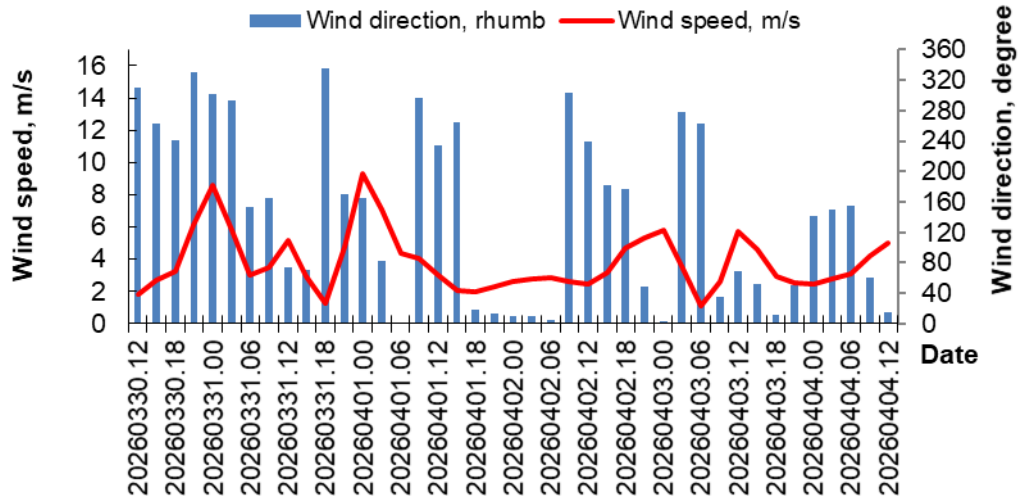


Wave condition in the Fetisovo

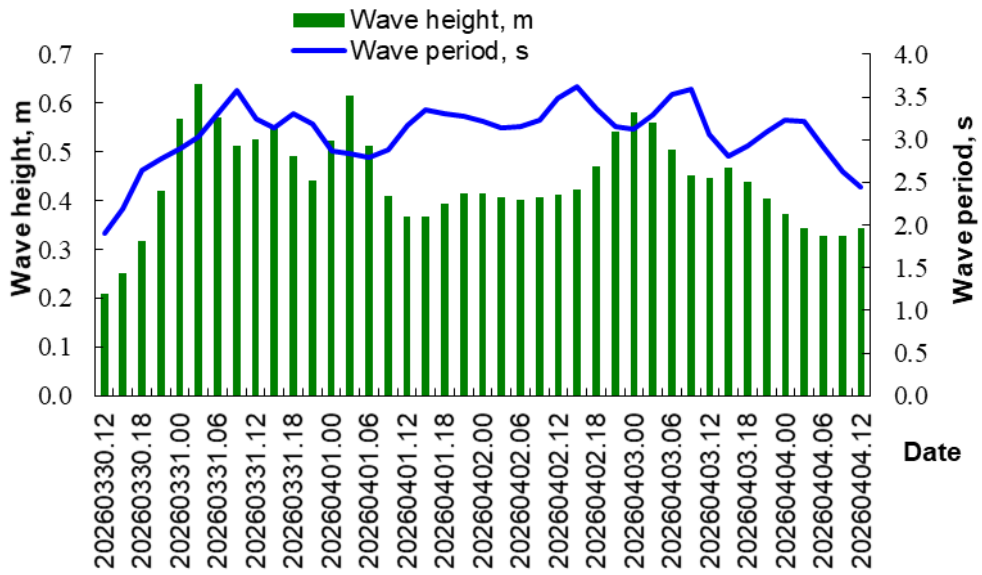


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260330.12	0.25	N	2.0	2	NE
20260330.15	0.32	NW	2.4	2	NW
20260330.18	0.32	NW	2.8	3	NW
20260330.21	0.32	NW	3.0	3	W
20260331.00	0.33	N	3.1	3	SW
20260331.03	0.36	N	3.1	3	S
20260331.06	0.40	N	3.1	2	E
20260331.09	0.43	N	3.1	4	S
20260331.12	0.50	N	2.9	6	S
20260331.15	0.50	N	2.9	4	E
20260331.18	0.46	N	3.1	2	NW
20260331.21	0.43	N	3.3	1	NW
20260401.00	0.45	N	3.1	4	SE
20260401.03	0.50	N	3.1	2	E
20260401.06	0.50	N	3.3	5	NW
20260401.09	0.49	NE	3.5	5	W
20260401.12	0.49	NE	3.6	4	E
20260401.15	0.50	NE	3.5	3	E
20260401.18	0.50	NE	3.6	3	SE
20260401.21	0.51	NE	3.5	3	S
20260402.00	0.55	N	3.5	3	NW
20260402.03	0.54	N	3.5	2	W
20260402.06	0.51	N	3.7	1	NE
20260402.09	0.48	NE	3.8	2	E
20260402.12	0.47	NE	3.8	4	SW
20260402.15	0.46	NE	3.6	3	S
20260402.18	0.47	NE	3.3	4	NE
20260402.21	0.48	NE	3.2	5	NE
20260403.00	0.52	NE	3.0	5	N
20260403.03	0.51	NE	3.1	3	N
20260403.06	0.46	NE	3.3	2	SW
20260403.09	0.41	NE	3.5	3	SE
20260403.12	0.41	NE	3.0	5	S
20260403.15	0.42	NE	2.7	4	E
20260403.18	0.39	NE	2.8	2	N
20260403.21	0.36	NE	3.0	3	NE
20260404.00	0.37	NE	2.6	4	NE
20260404.03	0.36	NE	2.6	3	NE
20260404.06	0.34	NE	2.8	2	NE
20260404.09	0.33	NE	2.9	3	N
20260404.12	0.34	NE	2.6	4	N

Wind condition in the Saura

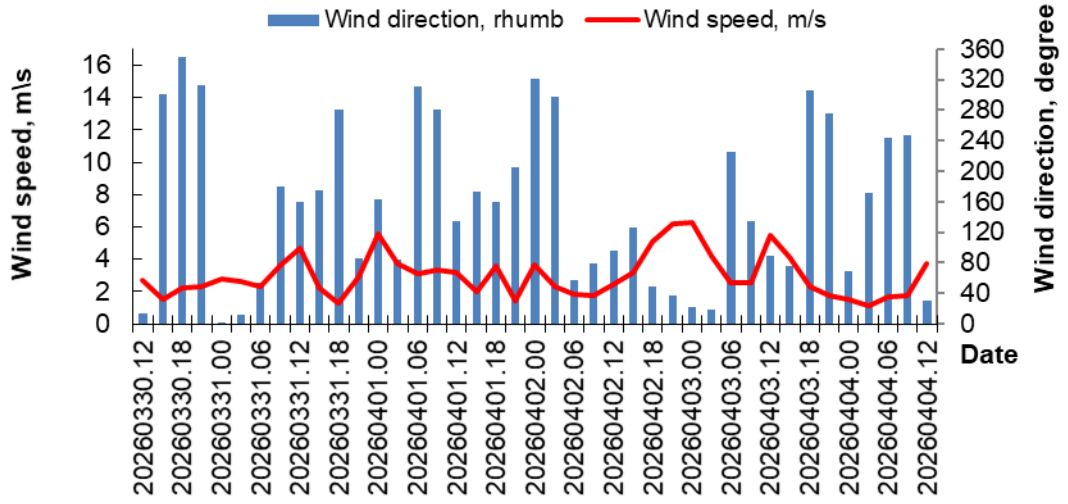


Wave condition in the Saura

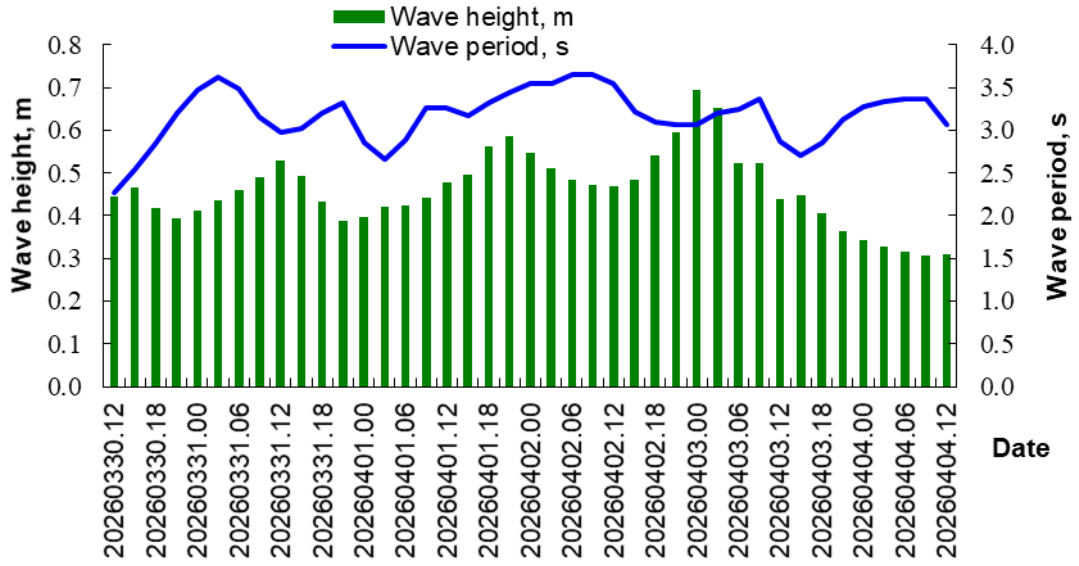


Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260330.12	0.21	S	1.9	2	NW
20260330.15	0.25	N	2.2	3	W
20260330.18	0.32	NE	2.6	3	SW
20260330.21	0.42	NE	2.8	6	NW
20260331.00	0.57	E	2.9	9	NW
20260331.03	0.64	E	3.0	6	W
20260331.06	0.57	NE	3.3	3	SE
20260331.09	0.51	NE	3.6	3	S
20260331.12	0.53	NE	3.2	5	E
20260331.15	0.55	NE	3.1	3	E
20260331.18	0.49	E	3.3	1	NW
20260331.21	0.44	NE	3.2	5	S
20260401.00	0.52	N	2.9	9	S
20260401.03	0.61	N	2.8	7	E
20260401.06	0.51	N	2.8	4	N
20260401.09	0.41	N	2.9	4	NW
20260401.12	0.37	NE	3.2	3	SW
20260401.15	0.37	NE	3.4	2	W
20260401.18	0.39	NE	3.3	2	N
20260401.21	0.41	NE	3.3	2	N
20260402.00	0.41	NE	3.2	3	N
20260402.03	0.41	NE	3.1	3	N
20260402.06	0.40	NE	3.2	3	N
20260402.09	0.41	NE	3.2	3	NW
20260402.12	0.41	NE	3.5	2	SW
20260402.15	0.42	NE	3.6	3	S
20260402.18	0.47	NE	3.4	5	S
20260402.21	0.54	NE	3.2	5	NE
20260403.00	0.58	NE	3.1	6	N
20260403.03	0.56	NE	3.3	4	W
20260403.06	0.51	NE	3.5	1	W
20260403.09	0.45	NE	3.6	3	NE
20260403.12	0.45	NE	3.1	6	E
20260403.15	0.47	NE	2.8	5	NE
20260403.18	0.44	NE	2.9	3	N
20260403.21	0.40	NE	3.1	3	NE
20260404.00	0.37	NE	3.2	2	SE
20260404.03	0.34	NE	3.2	3	SE
20260404.06	0.33	NE	2.9	3	SE
20260404.09	0.33	NE	2.6	4	NE
20260404.12	0.34	NE	2.4	5	N

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
20260330.12	0.44	E	2.3	3	N
20260330.15	0.46	NE	2.5	1	NW
20260330.18	0.42	N	2.8	2	N
20260330.21	0.39	N	3.2	2	NW
20260331.00	0.41	N	3.5	3	N
20260331.03	0.44	N	3.6	3	N
20260331.06	0.46	N	3.5	2	NE
20260331.09	0.49	N	3.2	4	S
20260331.12	0.53	N	3.0	5	S
20260331.15	0.49	N	3.0	2	S
20260331.18	0.43	N	3.2	1	W
20260331.21	0.39	N	3.3	3	E
20260401.00	0.40	N	2.9	6	S
20260401.03	0.42	N	2.7	4	E
20260401.06	0.42	N	2.9	3	NW
20260401.09	0.44	NE	3.3	3	W
20260401.12	0.48	NE	3.3	3	SE
20260401.15	0.50	NE	3.2	2	S
20260401.18	0.56	NE	3.3	4	S
20260401.21	0.59	NE	3.4	1	SW
20260402.00	0.55	NE	3.5	4	NW
20260402.03	0.51	NE	3.6	2	NW
20260402.06	0.48	NE	3.7	2	NE
20260402.09	0.47	NE	3.7	2	E
20260402.12	0.47	NE	3.5	2	E
20260402.15	0.48	NE	3.2	3	SE
20260402.18	0.54	NE	3.1	5	NE
20260402.21	0.59	NE	3.1	6	NE
20260403.00	0.69	NE	3.1	6	N
20260403.03	0.65	NE	3.2	4	N
20260403.06	0.52	NE	3.2	3	SW
20260403.09	0.52	NE	3.4	3	SE
20260403.12	0.44	NE	2.9	5	E
20260403.15	0.45	NE	2.7	4	E
20260403.18	0.40	NE	2.8	2	NW
20260403.21	0.36	NE	3.1	2	W
20260404.00	0.34	NE	3.3	2	E
20260404.03	0.33	NE	3.3	1	S
20260404.06	0.32	NE	3.4	2	SW
20260404.09	0.31	NE	3.4	2	SW
20260404.12	0.31	NE	3.1	4	NE

**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: Zhagparova N.N.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department
Phone. (717)2 79 83 12; E-mail: ugmikm@meteo.kz