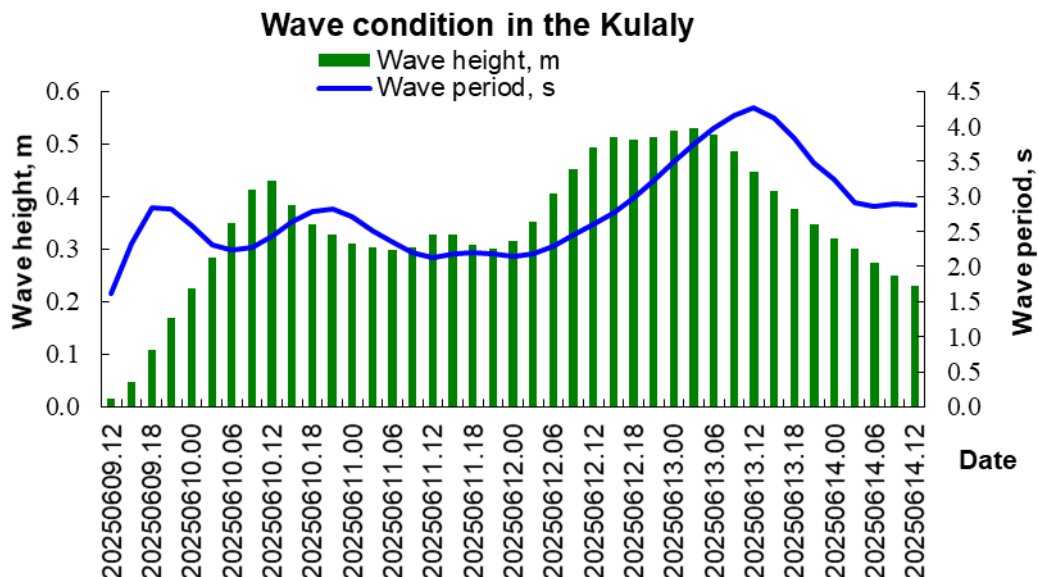
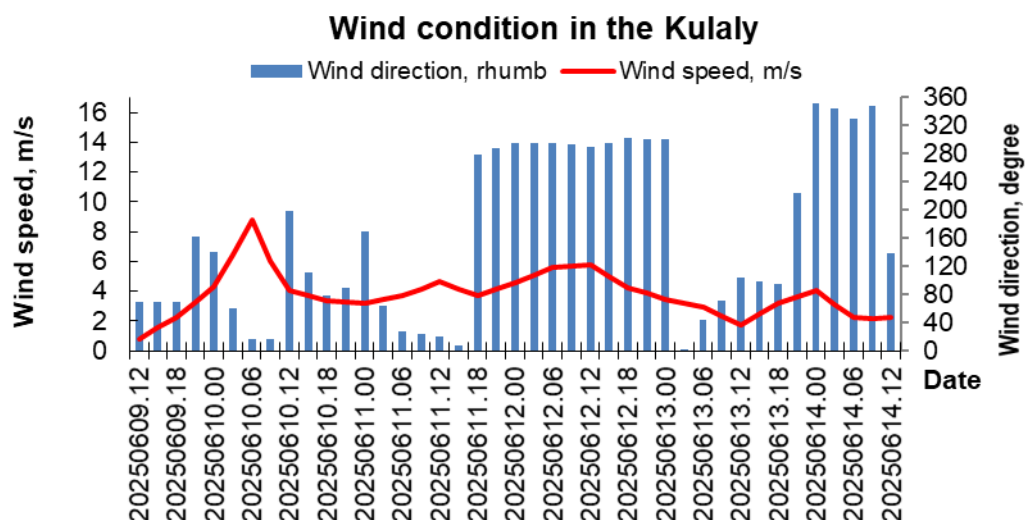




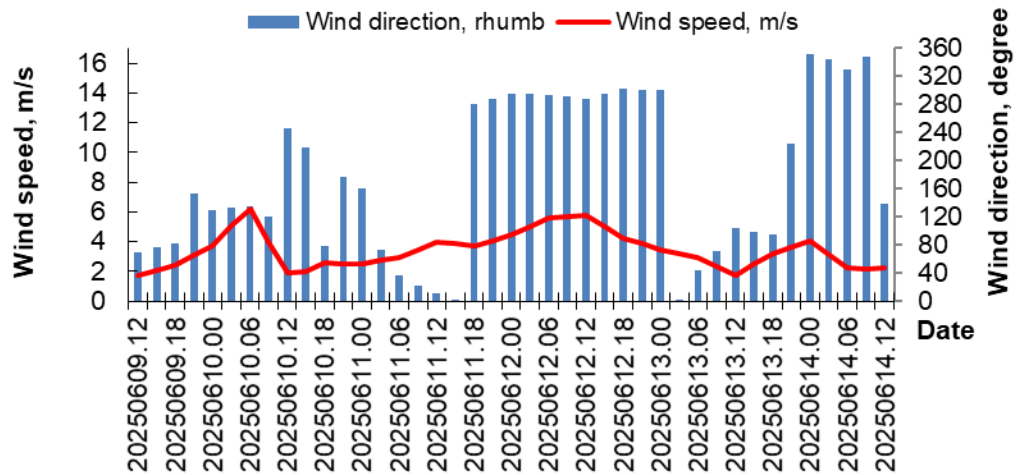
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period June 09 – 14, 2025.**

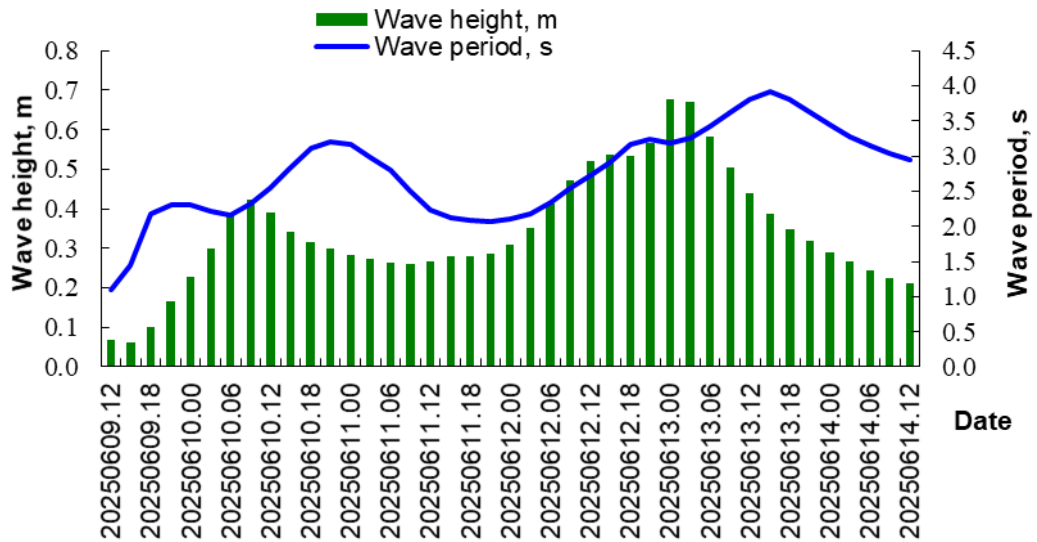


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250609.12	0.02	NE	1.6	1	E
20250609.15	0.05	SW	2.3	2	E
20250609.18	0.11	SW	2.8	2	E
20250609.21	0.17	SW	2.8	3	S
20250610.00	0.23	SW	2.6	4	SE
20250610.03	0.28	SW	2.3	6	NE
20250610.06	0.35	SW	2.2	9	N
20250610.09	0.41	SE	2.3	6	N
20250610.12	0.43	SE	2.4	4	S
20250610.15	0.38	S	2.6	4	E
20250610.18	0.35	SW	2.8	3	E
20250610.21	0.33	SW	2.8	3	E
20250611.00	0.31	SW	2.7	3	S
20250611.03	0.30	SW	2.5	3	NE
20250611.06	0.30	NE	2.4	4	NE
20250611.09	0.30	NE	2.2	4	NE
20250611.12	0.33	NE	2.1	5	N
20250611.15	0.33	NE	2.2	4	N
20250611.18	0.31	E	2.2	4	W
20250611.21	0.30	E	2.2	4	W
20250612.00	0.32	E	2.2	5	NW
20250612.03	0.35	E	2.2	5	NW
20250612.06	0.41	E	2.3	6	NW
20250612.09	0.45	E	2.5	6	NW
20250612.12	0.49	E	2.6	6	W
20250612.15	0.51	E	2.8	5	NW
20250612.18	0.51	E	3.0	4	NW
20250612.21	0.51	E	3.2	4	NW
20250613.00	0.52	E	3.5	3	NW
20250613.03	0.53	E	3.7	3	N
20250613.06	0.52	E	4.0	3	NE
20250613.09	0.49	E	4.2	2	E
20250613.12	0.45	E	4.3	2	E
20250613.15	0.41	E	4.1	2	E
20250613.18	0.38	E	3.8	3	E
20250613.21	0.35	E	3.5	4	SW
20250614.00	0.32	E	3.2	4	N
20250614.03	0.30	NE	2.9	3	N
20250614.06	0.27	NE	2.9	2	NW
20250614.09	0.25	NE	2.9	2	N
20250614.12	0.23	NE	2.9	2	SE

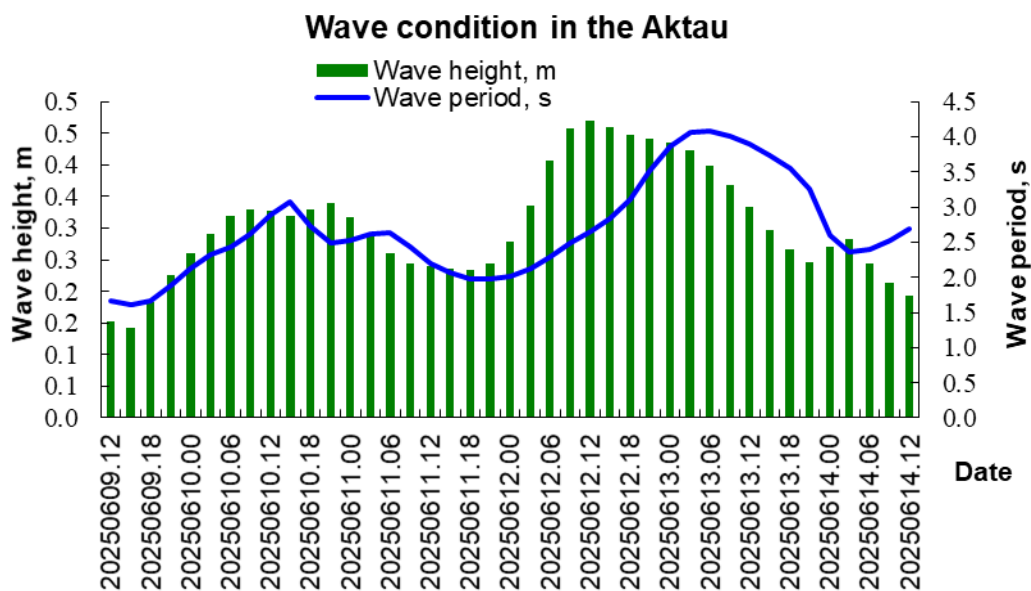
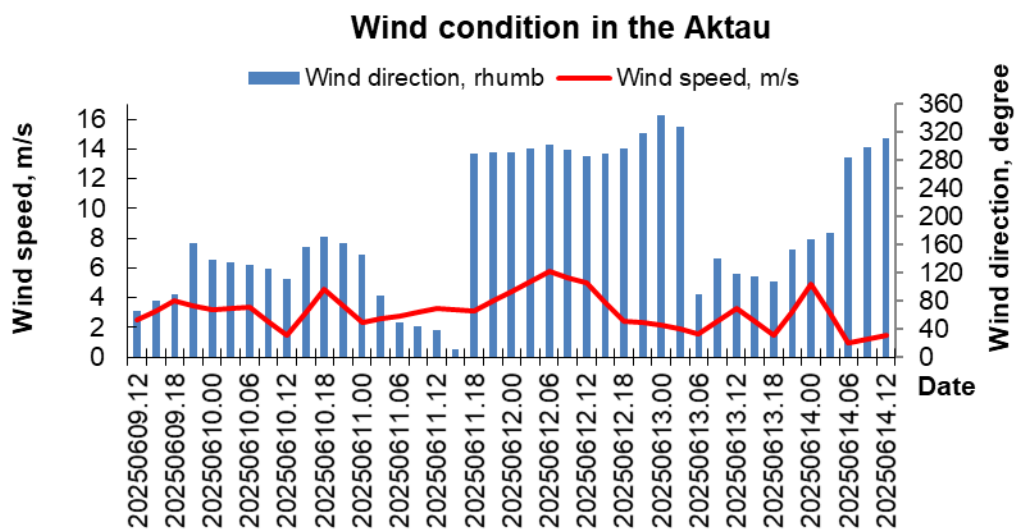
Wind condition in the Fort-Shevchenko



Wave condition in the Fort-Shevchenko

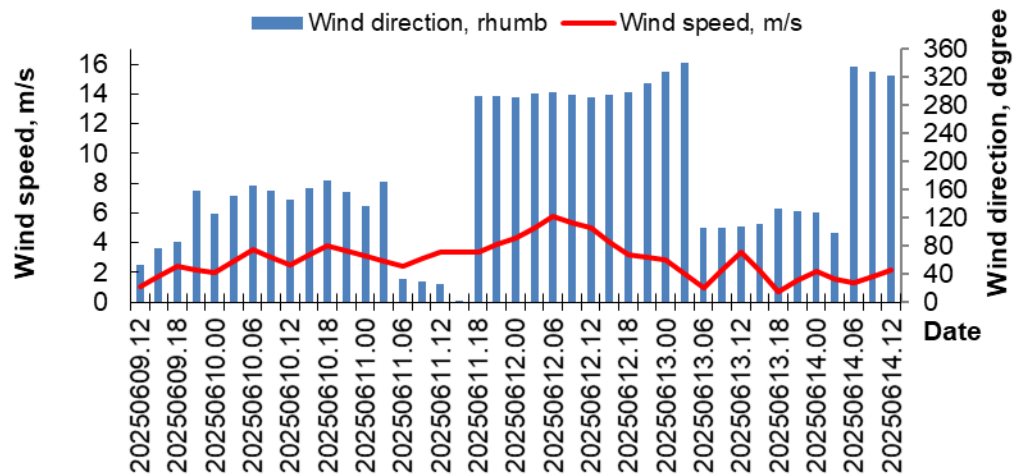


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250609.12	0.07	N	1.1	2	E
20250609.15	0.06	N	1.4	2	E
20250609.18	0.10	SW	2.2	2	E
20250609.21	0.17	SW	2.3	3	SE
20250610.00	0.23	W	2.3	4	SE
20250610.03	0.30	W	2.2	5	SE
20250610.06	0.38	W	2.2	6	SE
20250610.09	0.42	W	2.3	4	SE
20250610.12	0.39	W	2.5	2	SW
20250610.15	0.34	SW	2.8	2	SW
20250610.18	0.32	SW	3.1	3	E
20250610.21	0.30	SW	3.2	3	S
20250611.00	0.28	S	3.2	2	S
20250611.03	0.27	S	3.0	3	E
20250611.06	0.26	S	2.8	3	NE
20250611.09	0.26	E	2.5	3	NE
20250611.12	0.27	NE	2.2	4	N
20250611.15	0.28	NE	2.1	4	N
20250611.18	0.28	E	2.1	4	W
20250611.21	0.29	E	2.1	4	W
20250612.00	0.31	E	2.1	4	NW
20250612.03	0.35	E	2.2	5	NW
20250612.06	0.41	E	2.3	6	NW
20250612.09	0.47	E	2.5	6	W
20250612.12	0.52	E	2.7	6	W
20250612.15	0.54	E	2.9	5	NW
20250612.18	0.53	E	3.2	4	NW
20250612.21	0.56	E	3.2	4	NW
20250613.00	0.68	E	3.2	3	NW
20250613.03	0.67	E	3.3	3	N
20250613.06	0.58	E	3.4	3	NE
20250613.09	0.50	E	3.6	2	E
20250613.12	0.44	E	3.8	2	E
20250613.15	0.39	E	3.9	2	E
20250613.18	0.35	E	3.8	3	E
20250613.21	0.32	E	3.6	4	SW
20250614.00	0.29	NE	3.4	4	N
20250614.03	0.27	NE	3.3	3	N
20250614.06	0.24	NE	3.1	2	NW
20250614.09	0.23	NE	3.0	2	N
20250614.12	0.21	NE	2.9	2	SE

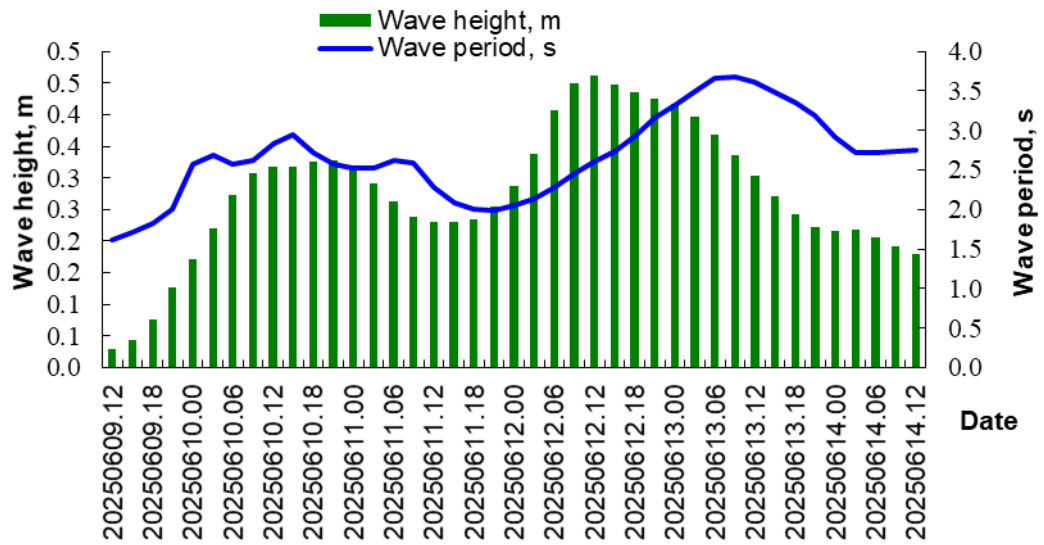


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250609.12	0.15	N	1.7	3	NE
20250609.15	0.14	N	1.6	3	E
20250609.18	0.18	N	1.7	4	E
20250609.21	0.23	NW	1.9	3	S
20250610.00	0.26	NW	2.1	3	SE
20250610.03	0.29	W	2.3	3	SE
20250610.06	0.32	W	2.4	3	SE
20250610.09	0.33	W	2.6	2	SE
20250610.12	0.33	W	2.9	1	E
20250610.15	0.32	W	3.1	3	SE
20250610.18	0.33	NW	2.7	5	S
20250610.21	0.34	NW	2.5	3	S
20250611.00	0.32	NW	2.5	2	SE
20250611.03	0.29	NW	2.6	3	E
20250611.06	0.26	N	2.6	3	NE
20250611.09	0.24	N	2.4	3	NE
20250611.12	0.24	NE	2.2	3	NE
20250611.15	0.24	NE	2.1	3	N
20250611.18	0.23	NE	2.0	3	W
20250611.21	0.24	E	2.0	4	W
20250612.00	0.28	E	2.0	4	W
20250612.03	0.34	E	2.1	5	NW
20250612.06	0.41	E	2.3	6	NW
20250612.09	0.46	E	2.5	5	NW
20250612.12	0.47	E	2.7	5	W
20250612.15	0.46	E	2.8	4	W
20250612.18	0.45	E	3.1	2	NW
20250612.21	0.44	NE	3.5	2	NW
20250613.00	0.44	NE	3.9	2	N
20250613.03	0.42	NE	4.1	2	NW
20250613.06	0.40	NE	4.1	2	E
20250613.09	0.37	NE	4.0	2	SE
20250613.12	0.33	NE	3.9	3	SE
20250613.15	0.30	NE	3.7	2	SE
20250613.18	0.27	NE	3.6	1	E
20250613.21	0.25	NE	3.3	3	SE
20250614.00	0.27	NE	2.6	5	S
20250614.03	0.28	N	2.4	3	S
20250614.06	0.24	N	2.4	1	W
20250614.09	0.21	N	2.5	1	NW
20250614.12	0.19	N	2.7	1	NW

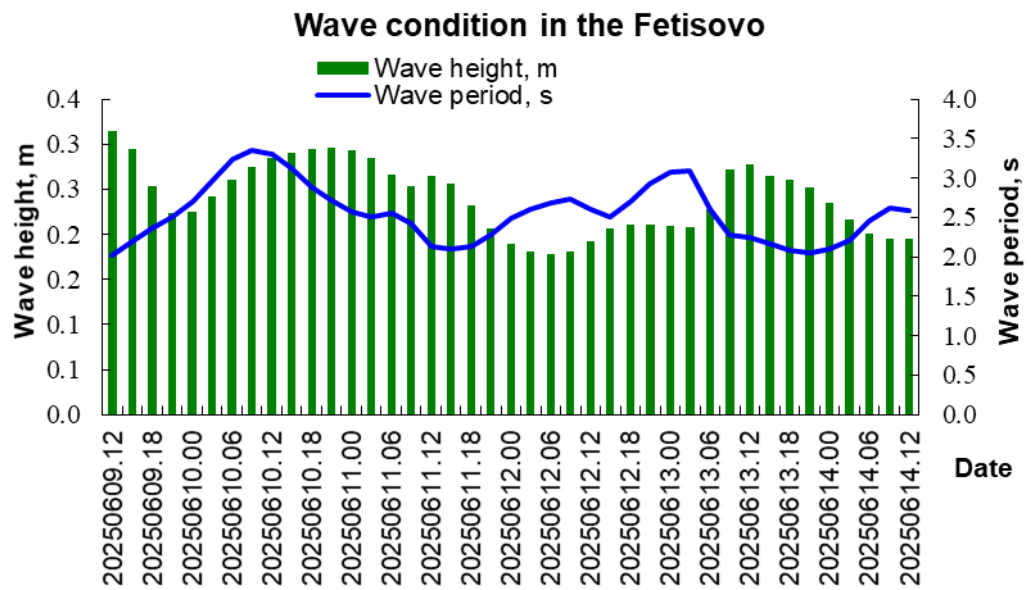
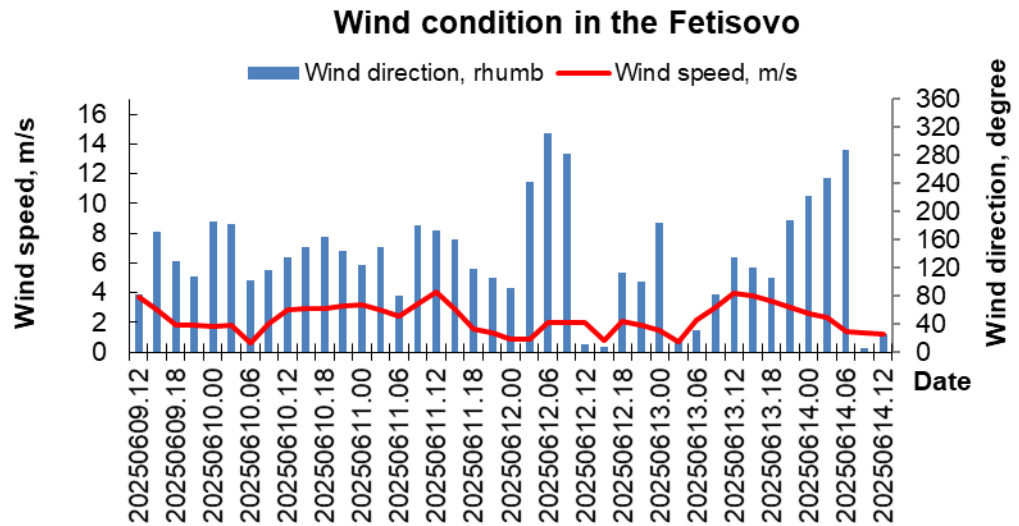
Wind condition in the Peschanyi



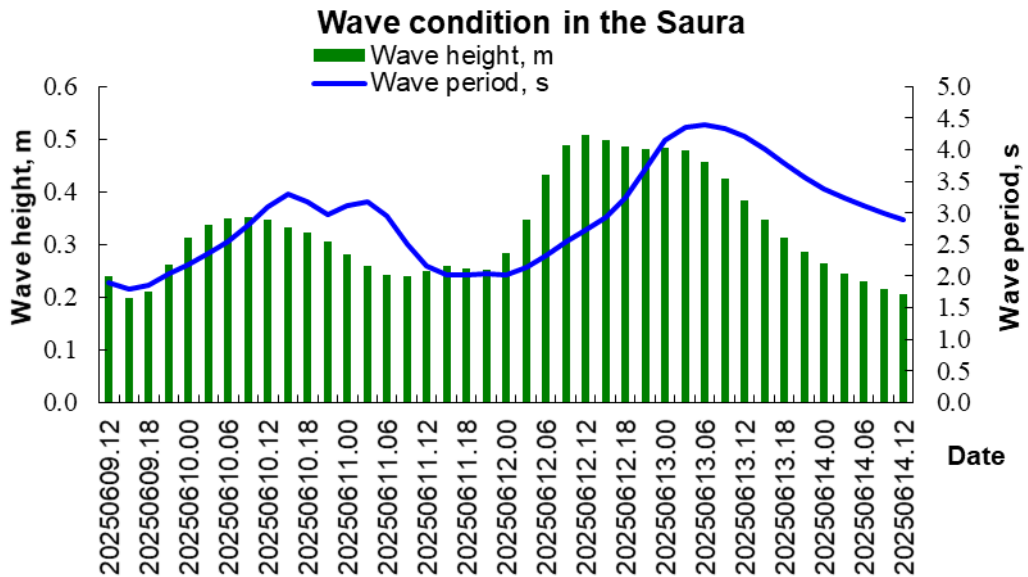
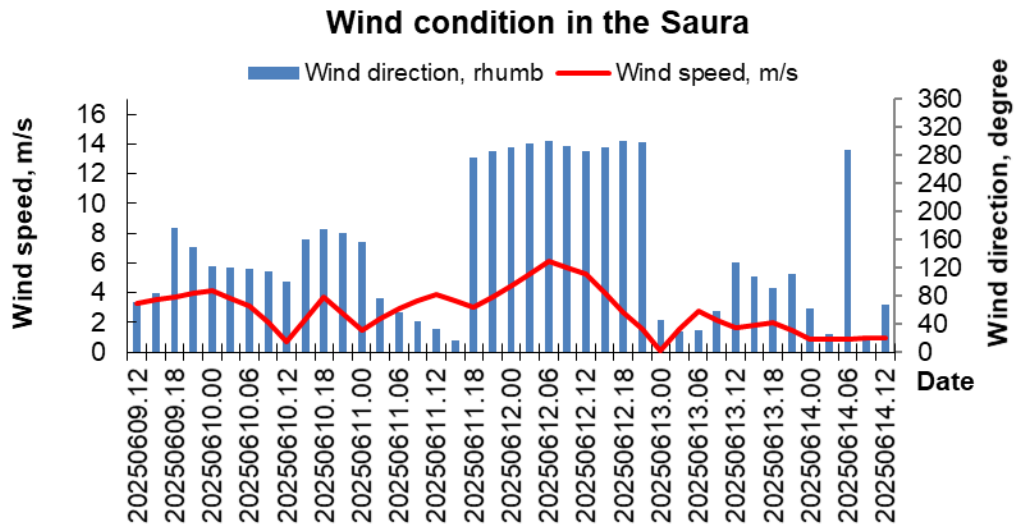
Wave condition in the Peschanyi



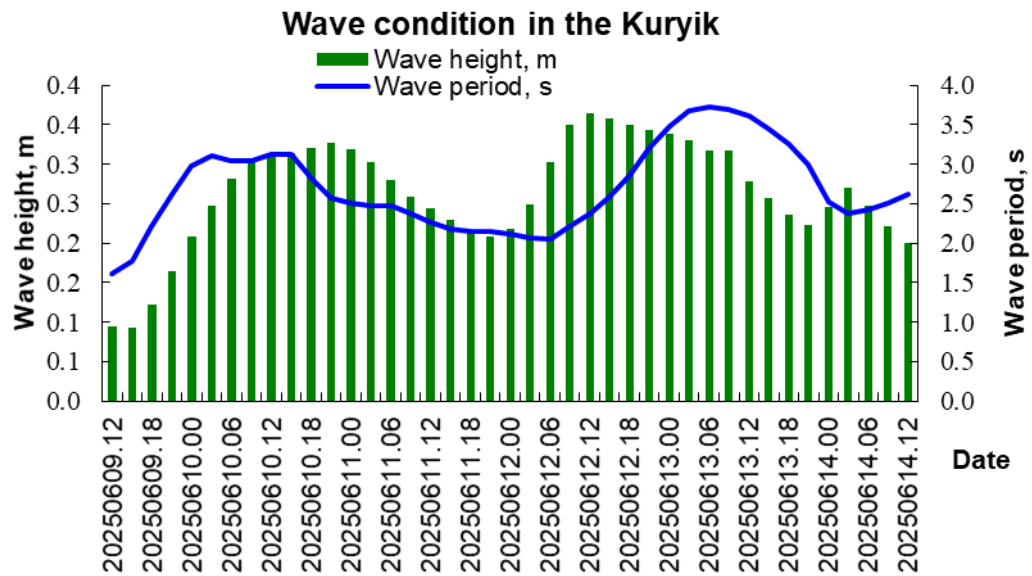
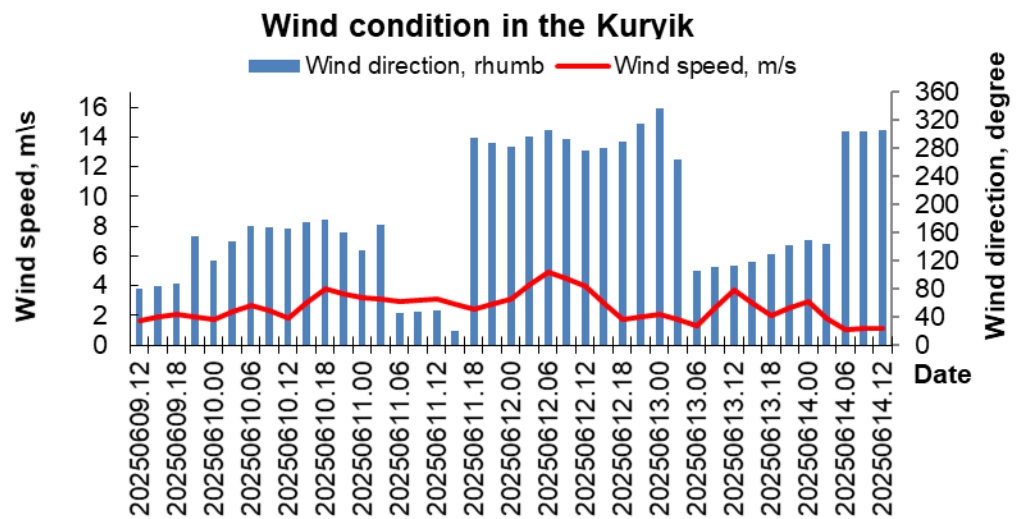
Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250609.12	0.03	NE	1.6	1	NE
20250609.15	0.04	N	1.7	2	E
20250609.18	0.08	NW	1.8	2	E
20250609.21	0.13	NW	2.0	2	S
20250610.00	0.17	NW	2.6	2	SE
20250610.03	0.22	W	2.7	3	SE
20250610.06	0.27	NW	2.6	4	S
20250610.09	0.31	NW	2.6	3	S
20250610.12	0.32	NW	2.8	2	SE
20250610.15	0.32	NW	3.0	3	S
20250610.18	0.32	NW	2.7	4	S
20250610.21	0.33	NW	2.6	3	S
20250611.00	0.31	NW	2.5	3	SE
20250611.03	0.29	NW	2.5	3	S
20250611.06	0.26	NW	2.6	2	NE
20250611.09	0.24	N	2.6	3	NE
20250611.12	0.23	N	2.3	3	NE
20250611.15	0.23	NE	2.1	3	N
20250611.18	0.23	NE	2.0	3	NW
20250611.21	0.25	E	2.0	4	NW
20250612.00	0.29	E	2.1	4	W
20250612.03	0.34	E	2.1	5	NW
20250612.06	0.41	E	2.3	6	NW
20250612.09	0.45	E	2.5	5	NW
20250612.12	0.46	E	2.6	5	W
20250612.15	0.45	E	2.7	4	NW
20250612.18	0.44	E	2.9	3	NW
20250612.21	0.43	NE	3.2	3	NW
20250613.00	0.42	NE	3.3	3	NW
20250613.03	0.40	NE	3.5	2	N
20250613.06	0.37	NE	3.7	1	E
20250613.09	0.34	NE	3.7	2	E
20250613.12	0.30	NE	3.6	3	E
20250613.15	0.27	NE	3.5	2	E
20250613.18	0.24	NE	3.3	1	SE
20250613.21	0.22	NE	3.2	1	SE
20250614.00	0.22	NE	2.9	2	SE
20250614.03	0.22	NE	2.7	2	E
20250614.06	0.21	N	2.7	1	NW
20250614.09	0.19	N	2.7	2	NW
20250614.12	0.18	N	2.7	2	NW



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250609.12	0.31	N	2.0	4	E
20250609.15	0.29	N	2.2	3	S
20250609.18	0.25	N	2.4	2	SE
20250609.21	0.22	N	2.5	2	E
20250610.00	0.22	N	2.7	2	S
20250610.03	0.24	NW	3.0	2	S
20250610.06	0.26	NW	3.2	1	E
20250610.09	0.28	NW	3.4	2	SE
20250610.12	0.28	NW	3.3	3	SE
20250610.15	0.29	NW	3.1	3	SE
20250610.18	0.29	NW	2.9	3	S
20250610.21	0.30	NW	2.7	3	SE
20250611.00	0.29	NW	2.6	3	SE
20250611.03	0.28	NW	2.5	3	SE
20250611.06	0.27	NW	2.6	2	E
20250611.09	0.25	NW	2.4	3	S
20250611.12	0.27	N	2.1	4	S
20250611.15	0.26	N	2.1	3	S
20250611.18	0.23	N	2.1	2	SE
20250611.21	0.21	NW	2.3	1	E
20250612.00	0.19	NW	2.5	1	E
20250612.03	0.18	NW	2.6	1	SW
20250612.06	0.18	N	2.7	2	NW
20250612.09	0.18	N	2.7	2	W
20250612.12	0.19	N	2.6	2	N
20250612.15	0.21	N	2.5	1	N
20250612.18	0.21	NE	2.7	2	SE
20250612.21	0.21	NE	2.9	2	E
20250613.00	0.21	NE	3.1	1	S
20250613.03	0.21	NE	3.1	1	N
20250613.06	0.23	NE	2.6	2	NE
20250613.09	0.27	NE	2.3	3	E
20250613.12	0.28	NE	2.2	4	SE
20250613.15	0.26	NE	2.2	4	SE
20250613.18	0.26	N	2.1	3	E
20250613.21	0.25	N	2.0	3	S
20250614.00	0.23	N	2.1	3	SW
20250614.03	0.22	N	2.2	2	W
20250614.06	0.20	N	2.5	1	W
20250614.09	0.20	N	2.6	1	N
20250614.12	0.20	N	2.6	1	NE



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250609.12	0.24	N	1.9	3	E
20250609.15	0.20	N	1.8	4	E
20250609.18	0.21	NW	1.8	4	S
20250609.21	0.26	NW	2.0	4	SE
20250610.00	0.31	W	2.2	4	SE
20250610.03	0.34	W	2.4	4	SE
20250610.06	0.35	W	2.6	3	SE
20250610.09	0.35	W	2.8	2	SE
20250610.12	0.35	W	3.1	1	E
20250610.15	0.33	W	3.3	2	S
20250610.18	0.32	W	3.2	4	S
20250610.21	0.31	W	3.0	3	S
20250611.00	0.28	SW	3.1	1	SE
20250611.03	0.26	SW	3.2	2	E
20250611.06	0.24	SE	2.9	3	NE
20250611.09	0.24	NE	2.5	3	NE
20250611.12	0.25	NE	2.2	4	NE
20250611.15	0.26	NE	2.0	3	N
20250611.18	0.25	NE	2.0	3	W
20250611.21	0.25	E	2.0	4	W
20250612.00	0.28	E	2.0	4	W
20250612.03	0.35	E	2.1	5	NW
20250612.06	0.43	E	2.3	6	NW
20250612.09	0.49	E	2.5	6	NW
20250612.12	0.51	E	2.7	5	W
20250612.15	0.50	E	2.9	4	W
20250612.18	0.49	E	3.2	3	NW
20250612.21	0.48	E	3.7	2	NW
20250613.00	0.48	E	4.2	0	NE
20250613.03	0.48	E	4.4	2	NE
20250613.06	0.46	E	4.4	3	NE
20250613.09	0.42	E	4.3	2	NE
20250613.12	0.38	E	4.2	2	SE
20250613.15	0.35	E	4.0	2	E
20250613.18	0.31	E	3.8	2	E
20250613.21	0.29	NE	3.6	1	E
20250614.00	0.26	NE	3.4	1	NE
20250614.03	0.25	NE	3.2	1	NE
20250614.06	0.23	NE	3.1	1	W
20250614.09	0.22	NE	3.0	1	N
20250614.12	0.20	N	2.9	1	E



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250609.12	0.09	N	1.6	2	E
20250609.15	0.09	N	1.8	2	E
20250609.18	0.12	NW	2.2	2	E
20250609.21	0.16	NW	2.6	2	SE
20250610.00	0.21	NW	3.0	2	SE
20250610.03	0.25	W	3.1	2	SE
20250610.06	0.28	W	3.0	3	S
20250610.09	0.30	NW	3.0	2	S
20250610.12	0.31	NW	3.1	2	S
20250610.15	0.31	NW	3.1	3	S
20250610.18	0.32	NW	2.8	4	S
20250610.21	0.33	NW	2.6	3	S
20250611.00	0.32	NW	2.5	3	SE
20250611.03	0.30	NW	2.5	3	S
20250611.06	0.28	NW	2.5	3	NE
20250611.09	0.26	N	2.4	3	NE
20250611.12	0.24	N	2.3	3	NE
20250611.15	0.23	N	2.2	3	N
20250611.18	0.21	NE	2.1	2	NW
20250611.21	0.21	NE	2.1	3	W
20250612.00	0.22	NE	2.1	3	W
20250612.03	0.25	NE	2.1	4	NW
20250612.06	0.30	E	2.1	5	NW
20250612.09	0.35	E	2.2	4	NW
20250612.12	0.36	E	2.4	4	W
20250612.15	0.36	E	2.6	3	W
20250612.18	0.35	NE	2.9	2	W
20250612.21	0.34	NE	3.2	2	NW
20250613.00	0.34	NE	3.5	2	NW
20250613.03	0.33	NE	3.7	2	W
20250613.06	0.32	NE	3.7	1	E
20250613.09	0.32	NE	3.7	3	E
20250613.12	0.28	NE	3.6	4	SE
20250613.15	0.26	NE	3.5	3	SE
20250613.18	0.24	NE	3.2	2	SE
20250613.21	0.22	NE	3.0	2	SE
20250614.00	0.25	NE	2.5	3	SE
20250614.03	0.27	N	2.4	2	SE
20250614.06	0.25	N	2.4	1	NW
20250614.09	0.22	N	2.5	1	NW
20250614.12	0.20	N	2.6	1	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

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