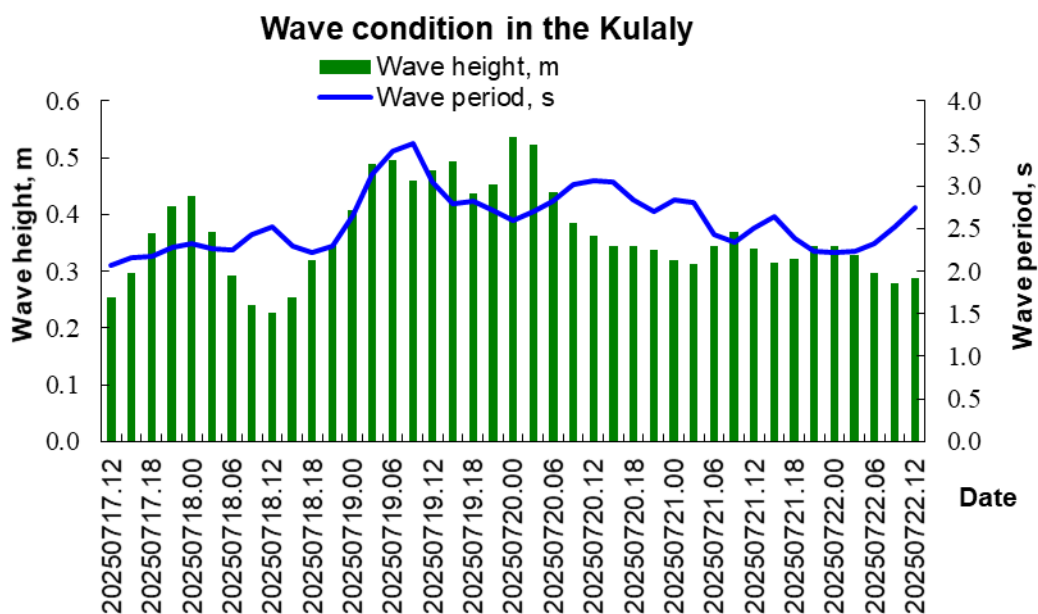
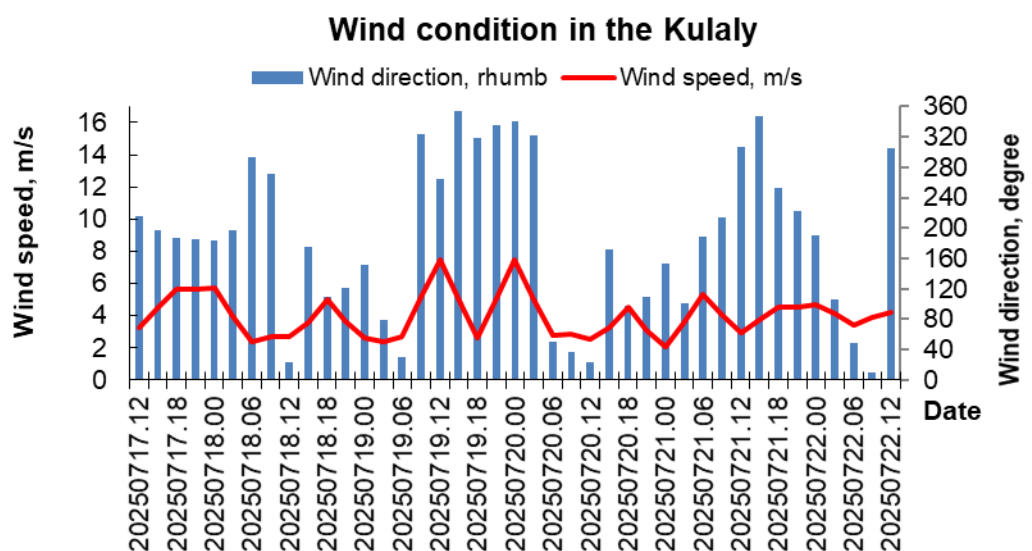




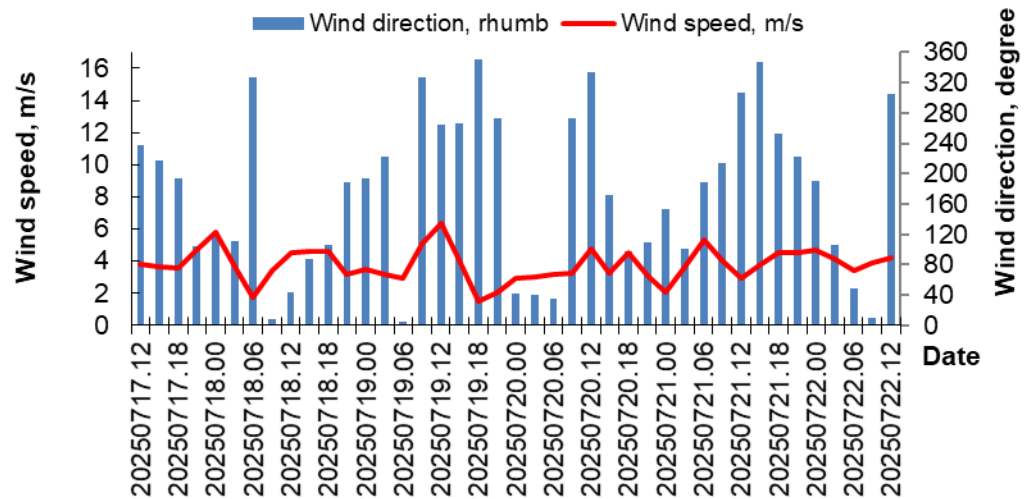
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period July 17 – 22, 2025.**

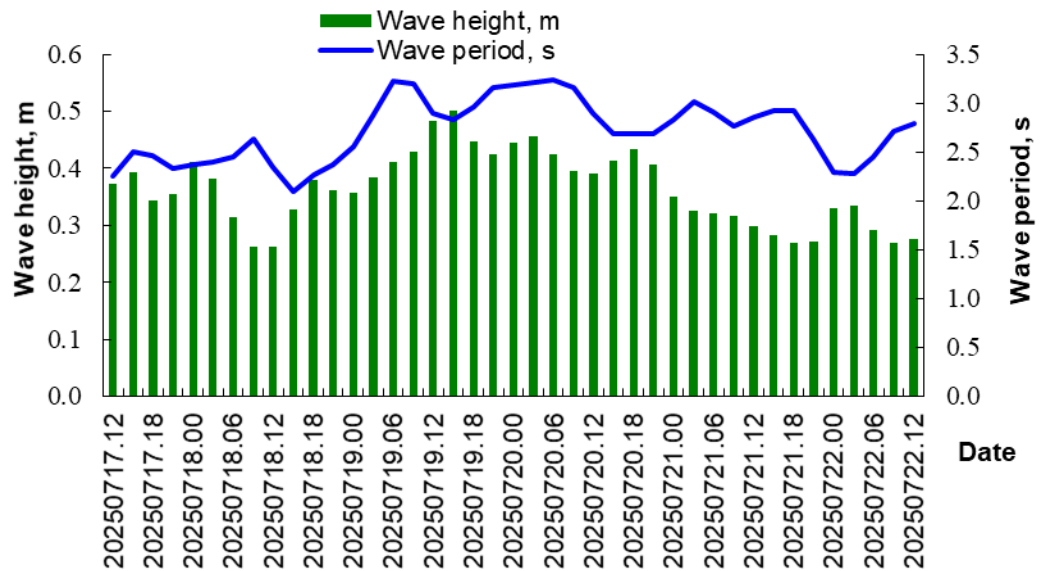


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250717.12	0.25	SW	2.1	3	SW
20250717.15	0.30	SW	2.2	4	S
20250717.18	0.37	SW	2.2	6	S
20250717.21	0.42	SW	2.3	6	S
20250718.00	0.43	W	2.3	6	S
20250718.03	0.37	W	2.3	4	S
20250718.06	0.29	W	2.2	2	NW
20250718.09	0.24	W	2.4	3	W
20250718.12	0.23	W	2.5	3	NE
20250718.15	0.25	W	2.3	4	S
20250718.18	0.32	W	2.2	5	E
20250718.21	0.35	W	2.3	4	SE
20250719.00	0.41	W	2.7	3	SE
20250719.03	0.49	W	3.1	2	E
20250719.06	0.49	W	3.4	3	NE
20250719.09	0.46	W	3.5	5	NW
20250719.12	0.48	SW	3.1	7	W
20250719.15	0.49	SW	2.8	5	N
20250719.18	0.44	SW	2.8	3	NW
20250719.21	0.45	SW	2.7	5	NW
20250720.00	0.54	S	2.6	7	N
20250720.03	0.52	S	2.7	5	NW
20250720.06	0.44	S	2.8	3	NE
20250720.09	0.39	SW	3.0	3	NE
20250720.12	0.36	SW	3.1	3	NE
20250720.15	0.34	S	3.0	3	S
20250720.18	0.34	S	2.8	5	E
20250720.21	0.34	S	2.7	3	E
20250721.00	0.32	S	2.8	2	SE
20250721.03	0.31	S	2.8	4	E
20250721.06	0.34	SW	2.4	5	S
20250721.09	0.37	SW	2.3	4	SW
20250721.12	0.34	SW	2.5	3	NW
20250721.15	0.31	SW	2.6	4	N
20250721.18	0.32	SW	2.4	5	W
20250721.21	0.34	SW	2.2	5	SW
20250722.00	0.35	W	2.2	5	S
20250722.03	0.33	W	2.2	4	E
20250722.06	0.30	W	2.3	3	NE
20250722.09	0.28	W	2.5	4	N
20250722.12	0.29	SW	2.8	4	NW

Wind condition in the Fort-Shevchenko

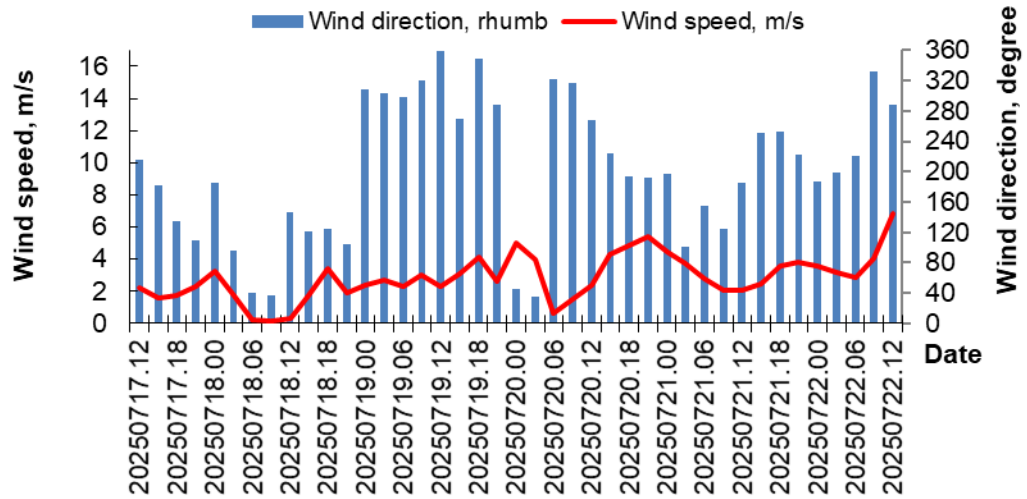


Wave condition in the Fort-Shevchenko

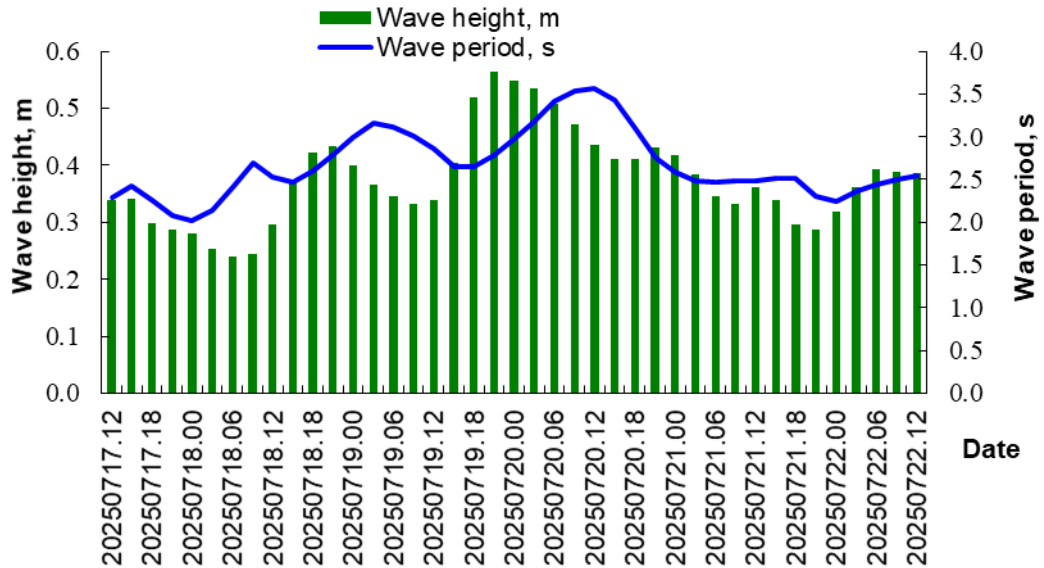


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250717.12	0.37	SW	2.3	4	SW
20250717.15	0.39	SW	2.5	4	SW
20250717.18	0.34	SW	2.5	4	S
20250717.21	0.36	SW	2.3	5	E
20250718.00	0.41	W	2.4	6	SE
20250718.03	0.38	W	2.4	4	E
20250718.06	0.31	W	2.4	2	NW
20250718.09	0.26	W	2.6	3	N
20250718.12	0.26	W	2.3	5	NE
20250718.15	0.33	NW	2.1	5	E
20250718.18	0.38	NW	2.3	5	E
20250718.21	0.36	W	2.4	3	S
20250719.00	0.36	W	2.6	4	S
20250719.03	0.39	W	2.9	3	SW
20250719.06	0.41	W	3.2	3	N
20250719.09	0.43	W	3.2	5	NW
20250719.12	0.48	SW	2.9	6	W
20250719.15	0.50	SW	2.8	4	W
20250719.18	0.45	SW	3.0	2	N
20250719.21	0.42	SW	3.2	2	W
20250720.00	0.44	SW	3.2	3	NE
20250720.03	0.46	S	3.2	3	NE
20250720.06	0.42	S	3.2	3	NE
20250720.09	0.39	S	3.2	3	W
20250720.12	0.39	S	2.9	5	NW
20250720.15	0.41	S	2.7	3	S
20250720.18	0.43	S	2.7	5	E
20250720.21	0.41	SW	2.7	3	E
20250721.00	0.35	S	2.8	2	SE
20250721.03	0.33	S	3.0	4	E
20250721.06	0.32	S	2.9	5	S
20250721.09	0.32	SW	2.8	4	SW
20250721.12	0.30	SW	2.9	3	NW
20250721.15	0.28	SW	2.9	4	N
20250721.18	0.27	W	2.9	5	W
20250721.21	0.27	W	2.6	5	SW
20250722.00	0.33	W	2.3	5	S
20250722.03	0.33	W	2.3	4	E
20250722.06	0.29	W	2.4	3	NE
20250722.09	0.27	W	2.7	4	N
20250722.12	0.28	W	2.8	4	NW

Wind condition in the Aktau

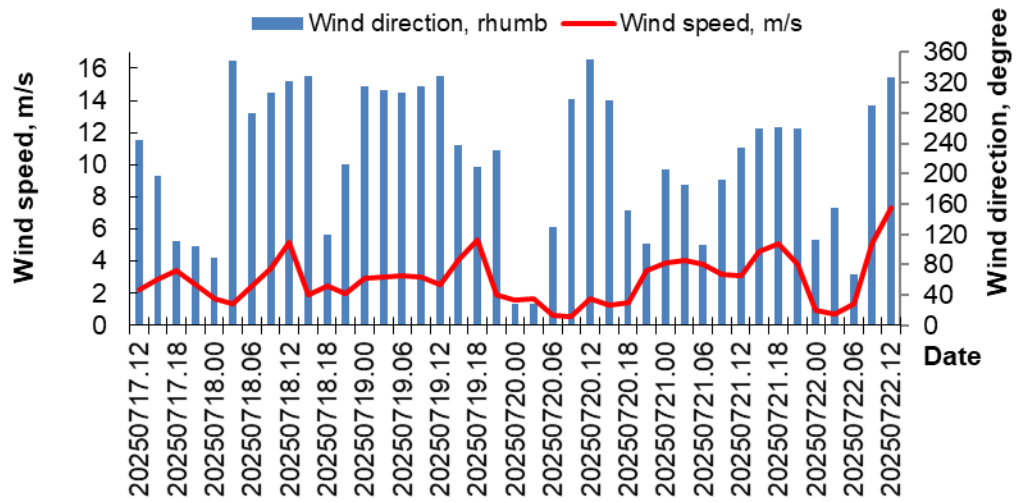


Wave condition in the Aktau

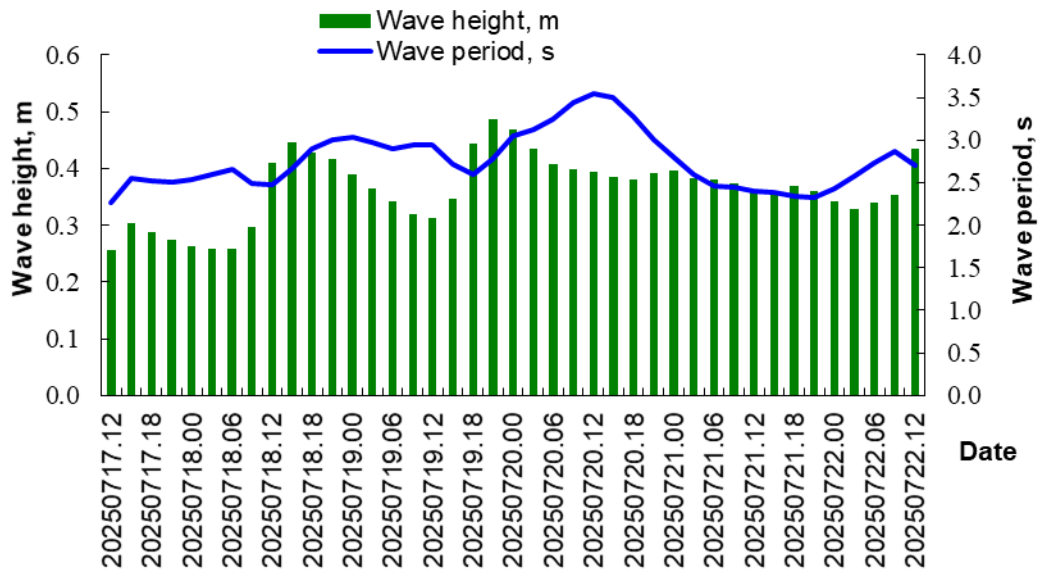


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250717.12	0.34	SW	2.3	2	SW
20250717.15	0.34	SW	2.4	2	S
20250717.18	0.30	SW	2.3	2	SE
20250717.21	0.29	SW	2.1	2	E
20250718.00	0.28	SW	2.0	3	S
20250718.03	0.25	SW	2.1	2	E
20250718.06	0.24	SW	2.4	0	NE
20250718.09	0.24	SW	2.7	0	NE
20250718.12	0.30	S	2.5	0	SE
20250718.15	0.37	SE	2.5	2	SE
20250718.18	0.42	S	2.6	3	SE
20250718.21	0.43	SW	2.8	2	E
20250719.00	0.40	SW	3.0	2	NW
20250719.03	0.37	S	3.2	3	NW
20250719.06	0.34	S	3.1	2	NW
20250719.09	0.33	SW	3.0	3	NW
20250719.12	0.34	SW	2.9	2	N
20250719.15	0.40	S	2.7	3	W
20250719.18	0.52	S	2.6	4	N
20250719.21	0.56	S	2.8	3	W
20250720.00	0.55	SE	3.0	5	NE
20250720.03	0.54	SE	3.2	4	NE
20250720.06	0.51	S	3.4	1	NW
20250720.09	0.47	S	3.5	2	NW
20250720.12	0.44	S	3.6	2	W
20250720.15	0.41	S	3.4	4	SW
20250720.18	0.41	S	3.1	5	S
20250720.21	0.43	SW	2.8	5	S
20250721.00	0.42	SW	2.6	4	S
20250721.03	0.38	SW	2.5	4	E
20250721.06	0.34	SW	2.5	3	SE
20250721.09	0.33	W	2.5	2	SE
20250721.12	0.36	W	2.5	2	S
20250721.15	0.34	W	2.5	2	W
20250721.18	0.30	W	2.5	4	W
20250721.21	0.29	W	2.3	4	SW
20250722.00	0.32	W	2.2	4	S
20250722.03	0.36	W	2.4	3	S
20250722.06	0.39	SW	2.4	3	SW
20250722.09	0.39	SW	2.5	4	NW
20250722.12	0.39	S	2.6	7	W

Wind condition in the Peschanyi

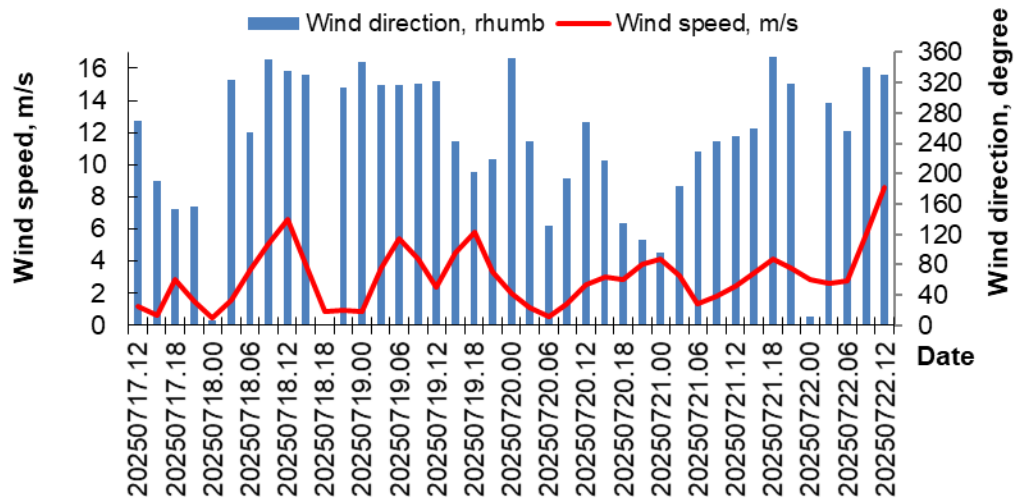


Wave condition in the Peschanyi

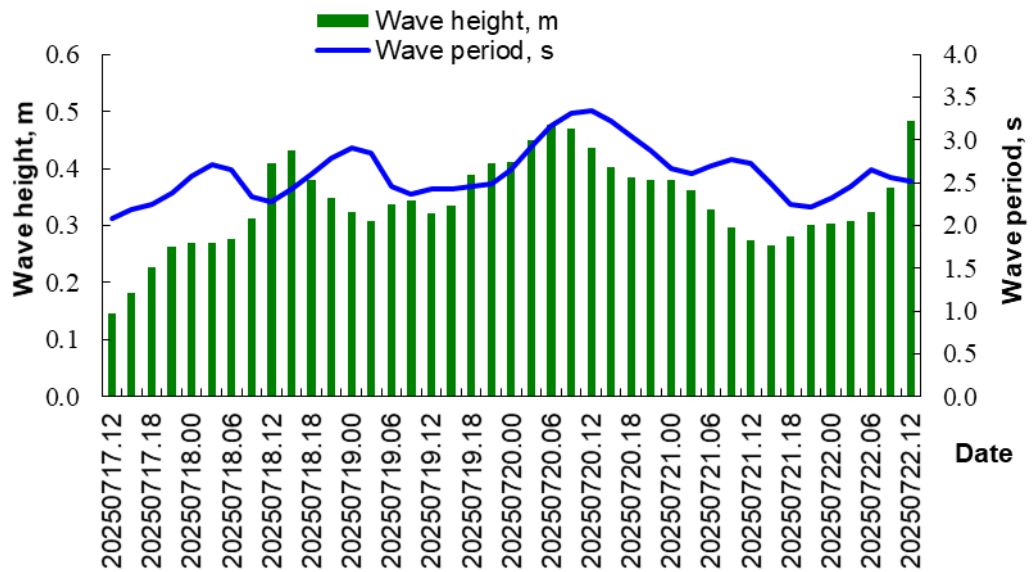


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250717.12	0.26	SW	2.3	2	SW
20250717.15	0.30	SW	2.5	3	S
20250717.18	0.29	SW	2.5	3	E
20250717.21	0.27	SW	2.5	3	E
20250718.00	0.26	SW	2.5	2	E
20250718.03	0.26	SW	2.6	1	N
20250718.06	0.26	S	2.7	2	W
20250718.09	0.30	SE	2.5	4	NW
20250718.12	0.41	SE	2.5	5	NW
20250718.15	0.45	SE	2.7	2	NW
20250718.18	0.43	SE	2.9	2	SE
20250718.21	0.42	S	3.0	2	SW
20250719.00	0.39	S	3.0	3	NW
20250719.03	0.37	S	3.0	3	NW
20250719.06	0.34	S	2.9	3	NW
20250719.09	0.32	SW	2.9	3	NW
20250719.12	0.31	SW	2.9	3	NW
20250719.15	0.35	S	2.7	4	SW
20250719.18	0.44	S	2.6	5	SW
20250719.21	0.49	S	2.8	2	SW
20250720.00	0.47	S	3.1	2	NE
20250720.03	0.43	S	3.1	2	NE
20250720.06	0.41	S	3.3	1	SE
20250720.09	0.40	S	3.4	1	NW
20250720.12	0.39	S	3.5	2	N
20250720.15	0.39	S	3.5	1	NW
20250720.18	0.38	S	3.3	1	SE
20250720.21	0.39	SW	3.0	3	E
20250721.00	0.40	SW	2.8	4	SW
20250721.03	0.38	SW	2.6	4	S
20250721.06	0.38	SW	2.5	4	E
20250721.09	0.37	W	2.4	3	S
20250721.12	0.36	W	2.4	3	SW
20250721.15	0.36	SW	2.4	5	W
20250721.18	0.37	SW	2.3	5	W
20250721.21	0.36	SW	2.3	4	W
20250722.00	0.34	SW	2.4	1	SE
20250722.03	0.33	SW	2.6	1	SE
20250722.06	0.34	SW	2.7	1	E
20250722.09	0.35	SW	2.9	5	W
20250722.12	0.43	S	2.7	7	NW

Wind condition in the Fetisovo

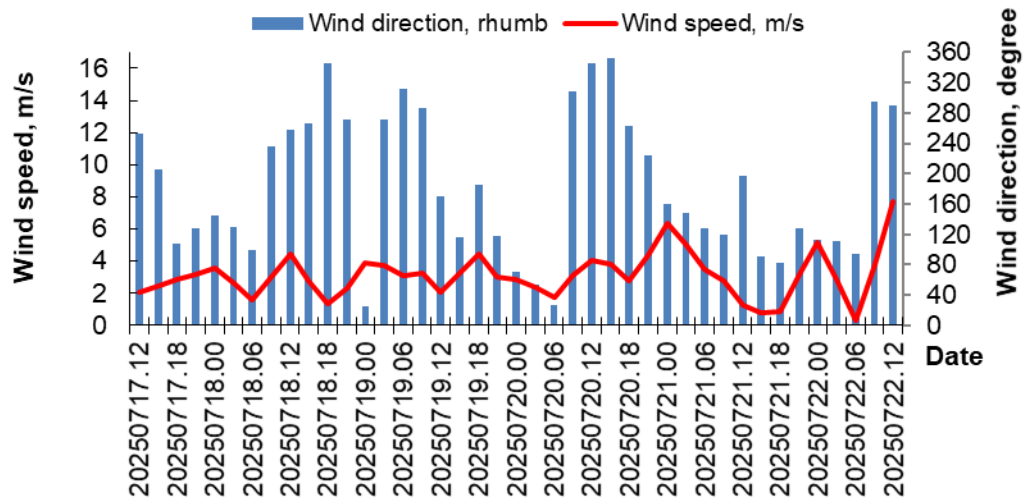


Wave condition in the Fetisovo

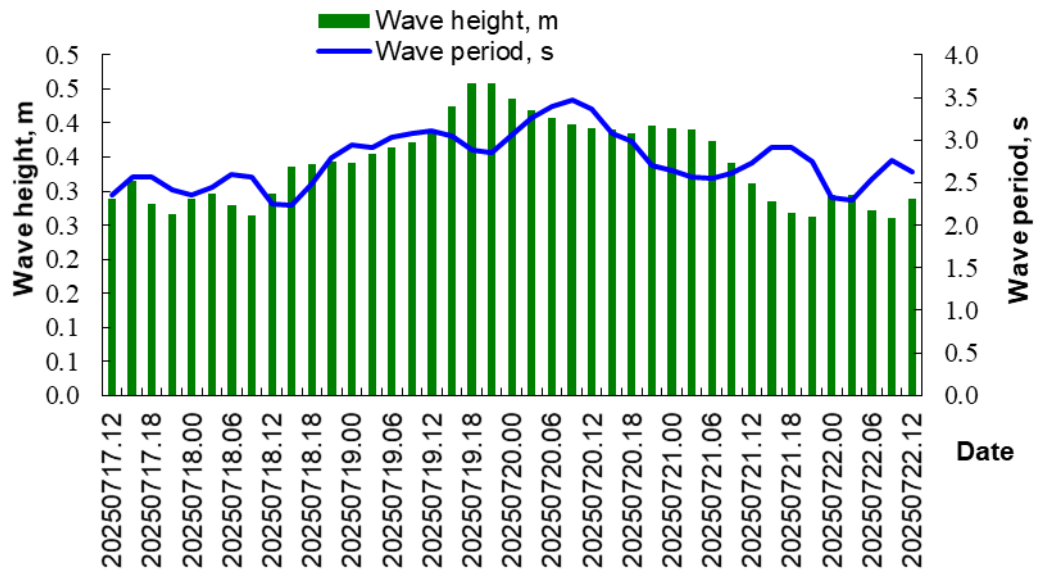


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250717.12	0.14	S	2.1	1	W
20250717.15	0.18	S	2.2	1	S
20250717.18	0.23	S	2.2	3	SE
20250717.21	0.26	S	2.4	1	SE
20250718.00	0.27	S	2.6	0	N
20250718.03	0.27	S	2.7	2	NW
20250718.06	0.28	SE	2.7	4	W
20250718.09	0.31	S	2.3	5	N
20250718.12	0.41	S	2.3	7	NW
20250718.15	0.43	SE	2.4	4	NW
20250718.18	0.38	SE	2.6	1	N
20250718.21	0.35	S	2.8	1	NW
20250719.00	0.32	S	2.9	1	N
20250719.03	0.31	S	2.8	4	NW
20250719.06	0.34	S	2.5	5	NW
20250719.09	0.34	S	2.4	4	NW
20250719.12	0.32	S	2.4	2	NW
20250719.15	0.34	S	2.4	4	SW
20250719.18	0.39	SW	2.5	6	S
20250719.21	0.41	SW	2.5	3	SW
20250720.00	0.41	S	2.7	2	N
20250720.03	0.45	S	2.9	1	SW
20250720.06	0.48	S	3.2	1	SE
20250720.09	0.47	S	3.3	1	S
20250720.12	0.44	S	3.3	3	W
20250720.15	0.40	S	3.2	3	SW
20250720.18	0.38	S	3.0	3	SE
20250720.21	0.38	SW	2.9	4	SE
20250721.00	0.38	SW	2.7	4	E
20250721.03	0.36	SW	2.6	3	S
20250721.06	0.33	W	2.7	1	SW
20250721.09	0.30	W	2.8	2	SW
20250721.12	0.27	W	2.7	2	W
20250721.15	0.27	W	2.5	3	W
20250721.18	0.28	W	2.3	4	N
20250721.21	0.30	SW	2.2	4	NW
20250722.00	0.30	SW	2.3	3	N
20250722.03	0.31	SW	2.5	3	NW
20250722.06	0.32	SW	2.7	3	W
20250722.09	0.37	S	2.6	6	N
20250722.12	0.48	S	2.5	9	NW

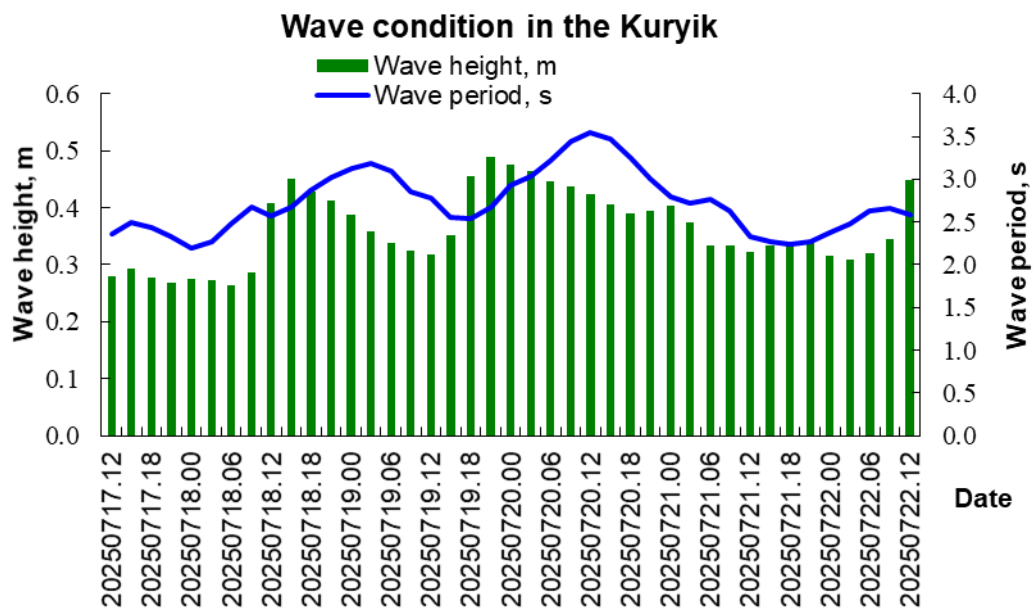
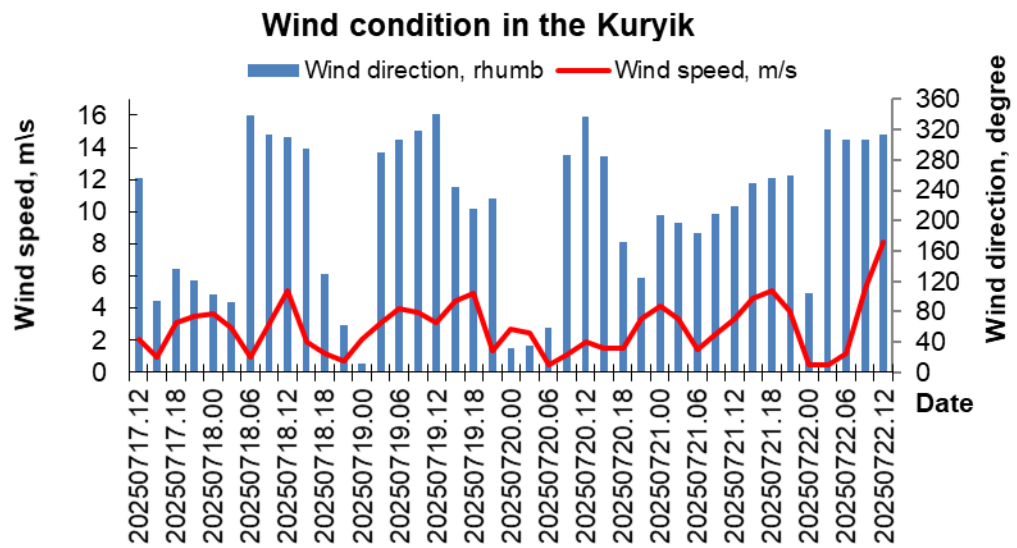
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250717.12	0.29	S	2.4	2	W
20250717.15	0.32	S	2.6	2	SW
20250717.18	0.28	S	2.6	3	E
20250717.21	0.27	SW	2.4	3	SE
20250718.00	0.29	SW	2.4	4	SE
20250718.03	0.30	W	2.4	3	SE
20250718.06	0.28	W	2.6	2	E
20250718.09	0.26	W	2.6	3	SW
20250718.12	0.30	SW	2.2	4	W
20250718.15	0.34	SW	2.2	3	W
20250718.18	0.34	SW	2.5	1	N
20250718.21	0.34	SW	2.8	2	W
20250719.00	0.34	SW	2.9	4	NE
20250719.03	0.35	SW	2.9	4	W
20250719.06	0.36	SW	3.0	3	NW
20250719.09	0.37	W	3.1	3	W
20250719.12	0.39	SW	3.1	2	S
20250719.15	0.42	SW	3.0	3	SE
20250719.18	0.46	SW	2.9	4	S
20250719.21	0.46	SW	2.9	3	SE
20250720.00	0.44	SW	3.1	3	E
20250720.03	0.42	S	3.3	2	NE
20250720.06	0.41	S	3.4	2	NE
20250720.09	0.40	S	3.5	3	NW
20250720.12	0.39	S	3.4	4	N
20250720.15	0.39	S	3.1	4	N
20250720.18	0.38	S	3.0	3	W
20250720.21	0.40	S	2.7	4	SW
20250721.00	0.39	S	2.6	6	S
20250721.03	0.39	W	2.6	5	SE
20250721.06	0.37	W	2.6	4	SE
20250721.09	0.34	W	2.6	3	SE
20250721.12	0.31	W	2.7	1	S
20250721.15	0.29	W	2.9	1	E
20250721.18	0.27	W	2.9	1	E
20250721.21	0.26	W	2.7	3	SE
20250722.00	0.29	W	2.3	5	SE
20250722.03	0.29	W	2.3	3	E
20250722.06	0.27	W	2.5	0	E
20250722.09	0.26	W	2.8	4	NW
20250722.12	0.29	SW	2.6	8	W



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250717.12	0.28	SW	2.4	2	W
20250717.15	0.29	SW	2.5	1	E
20250717.18	0.28	SW	2.4	3	SE
20250717.21	0.27	SW	2.3	4	SE
20250718.00	0.27	SW	2.2	4	E
20250718.03	0.27	SW	2.3	3	E
20250718.06	0.26	S	2.5	1	N
20250718.09	0.29	SE	2.7	3	NW
20250718.12	0.41	SE	2.6	5	NW
20250718.15	0.45	SE	2.7	2	NW
20250718.18	0.43	SE	2.9	1	SE
20250718.21	0.41	S	3.0	1	NE
20250719.00	0.39	S	3.1	2	N
20250719.03	0.36	SW	3.2	3	W
20250719.06	0.34	SW	3.1	4	NW
20250719.09	0.33	SW	2.9	4	NW
20250719.12	0.32	SW	2.8	3	N
20250719.15	0.35	S	2.6	4	SW
20250719.18	0.46	S	2.5	5	SW
20250719.21	0.49	S	2.7	1	SW
20250720.00	0.48	SE	2.9	3	NE
20250720.03	0.46	SE	3.0	2	NE
20250720.06	0.45	SE	3.2	1	NE
20250720.09	0.44	S	3.4	1	W
20250720.12	0.42	S	3.5	2	NW
20250720.15	0.40	S	3.5	2	W
20250720.18	0.39	S	3.3	2	S
20250720.21	0.39	S	3.0	3	SE
20250721.00	0.40	SW	2.8	4	SW
20250721.03	0.37	SW	2.7	3	S
20250721.06	0.33	SW	2.8	1	S
20250721.09	0.33	SW	2.6	2	SW
20250721.12	0.32	W	2.3	3	SW
20250721.15	0.33	SW	2.3	5	W
20250721.18	0.34	SW	2.2	5	W
20250721.21	0.34	SW	2.3	4	W
20250722.00	0.32	SW	2.4	0	E
20250722.03	0.31	SW	2.5	0	NW
20250722.06	0.32	SW	2.6	1	NW
20250722.09	0.35	S	2.7	5	NW
20250722.12	0.45	SE	2.6	8	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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