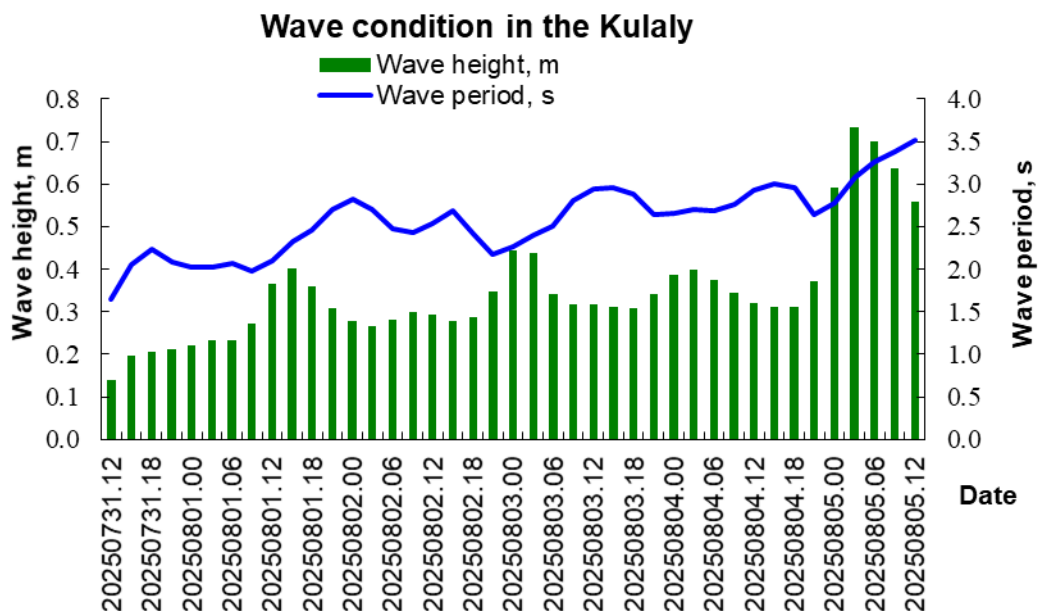
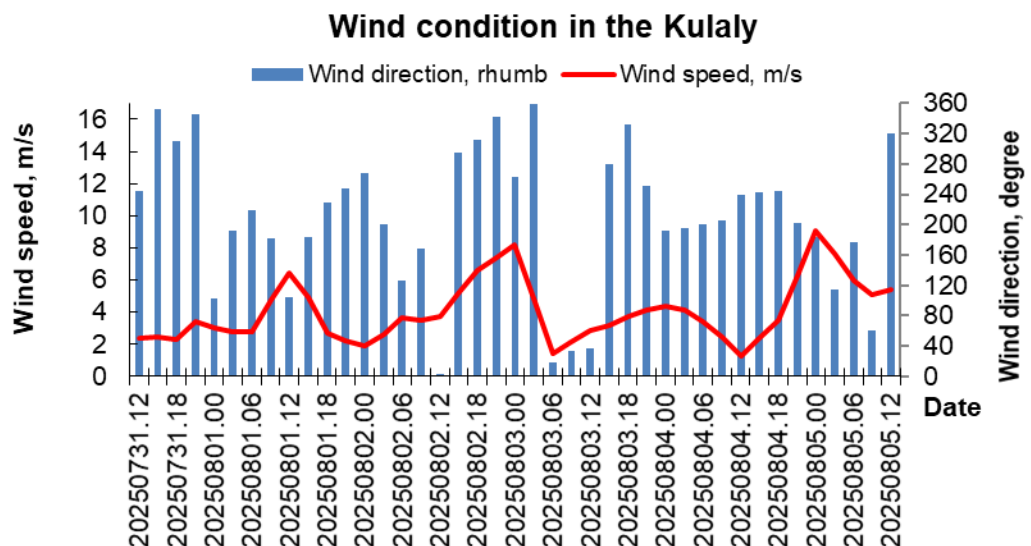




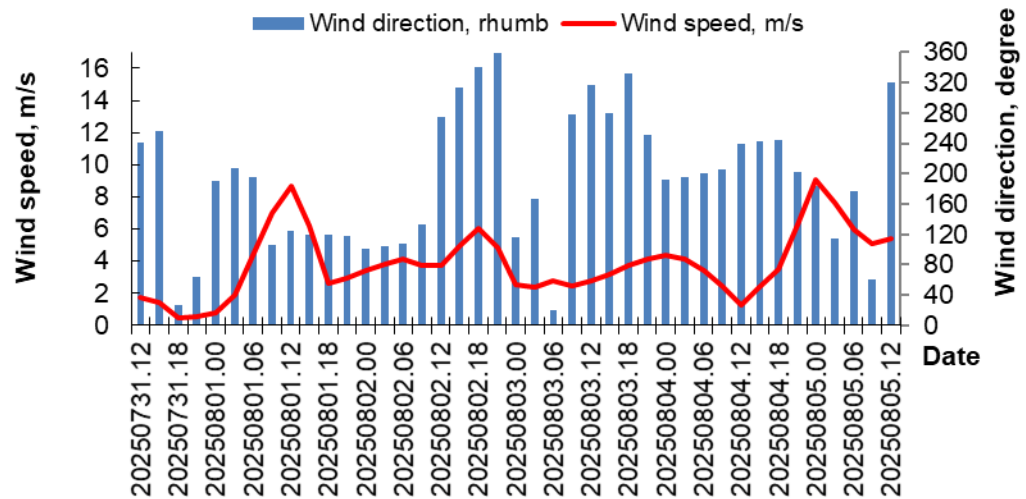
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 31 – August 05, 2025.**

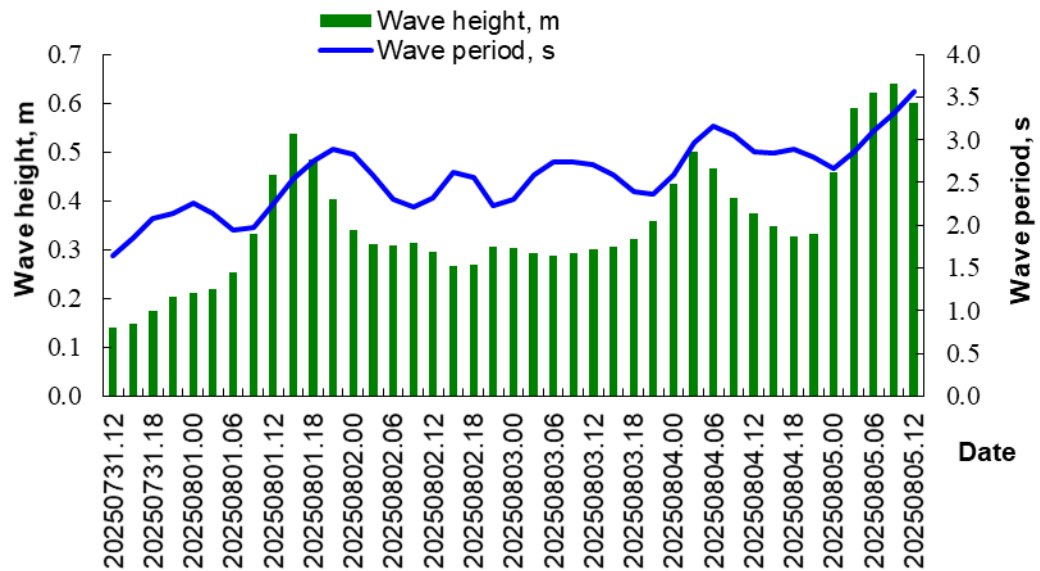


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250731.12	0.14	SW	1.6	2	SW
20250731.15	0.20	W	2.1	2	N
20250731.18	0.21	W	2.2	2	NW
20250731.21	0.21	W	2.1	3	N
20250801.00	0.22	SW	2.0	3	E
20250801.03	0.23	SW	2.0	3	S
20250801.06	0.23	SW	2.1	3	SW
20250801.09	0.27	SW	2.0	5	S
20250801.12	0.37	W	2.1	6	E
20250801.15	0.40	W	2.3	5	S
20250801.18	0.36	W	2.5	3	SW
20250801.21	0.31	W	2.7	2	W
20250802.00	0.28	W	2.8	2	W
20250802.03	0.27	W	2.7	3	S
20250802.06	0.28	W	2.5	4	SE
20250802.09	0.30	W	2.4	3	S
20250802.12	0.29	W	2.5	4	N
20250802.15	0.28	W	2.7	5	NW
20250802.18	0.29	W	2.4	7	NW
20250802.21	0.35	S	2.2	7	N
20250803.00	0.44	S	2.3	8	W
20250803.03	0.44	S	2.4	5	N
20250803.06	0.34	S	2.5	1	N
20250803.09	0.32	S	2.8	2	NE
20250803.12	0.32	SW	2.9	3	NE
20250803.15	0.31	SW	3.0	3	W
20250803.18	0.31	SW	2.9	4	NW
20250803.21	0.34	S	2.6	4	W
20250804.00	0.39	SW	2.7	4	S
20250804.03	0.40	SW	2.7	4	S
20250804.06	0.37	SW	2.7	3	S
20250804.09	0.34	SW	2.8	2	SW
20250804.12	0.32	SW	2.9	1	SW
20250804.15	0.31	SW	3.0	2	SW
20250804.18	0.31	SW	3.0	4	SW
20250804.21	0.37	SW	2.6	6	S
20250805.00	0.59	SW	2.8	9	S
20250805.03	0.73	W	3.1	8	SE
20250805.06	0.70	W	3.3	6	S
20250805.09	0.64	W	3.4	5	NE
20250805.12	0.56	W	3.5	5	NW

Wind condition in the Fort-Shevchenko

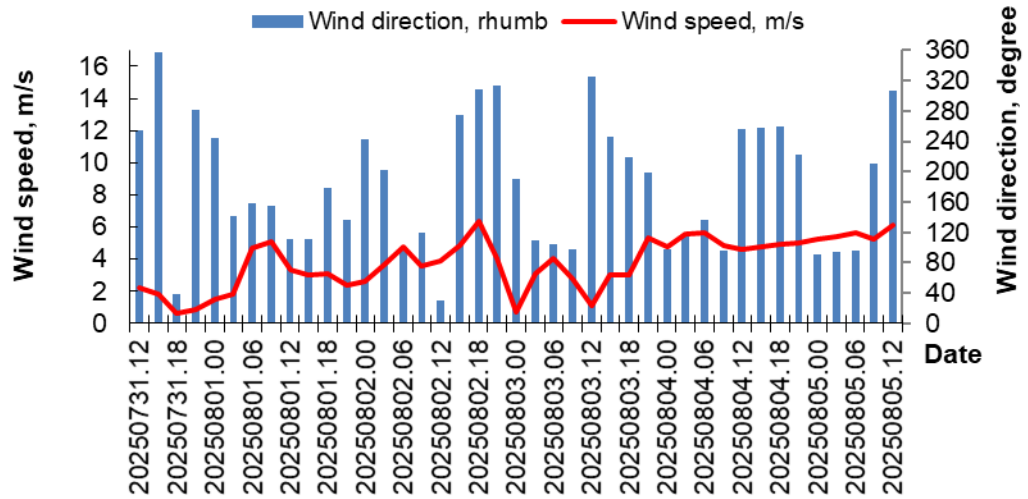


Wave condition in the Fort-Shevchenko

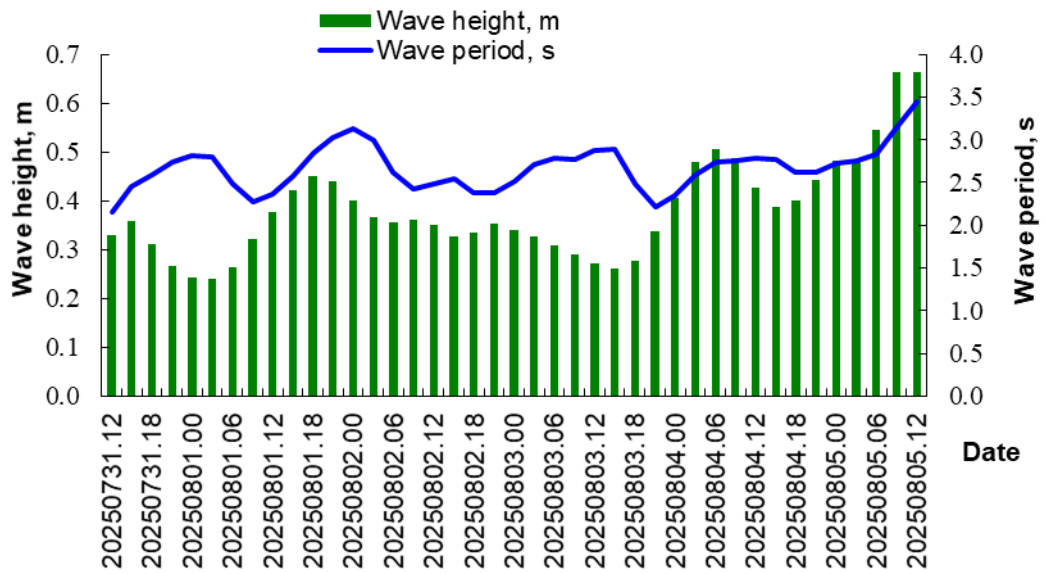


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250731.12	0.14	SW	1.6	2	SW
20250731.15	0.15	S	1.9	1	W
20250731.18	0.17	SW	2.1	0	NE
20250731.21	0.20	SW	2.1	1	NE
20250801.00	0.21	SW	2.3	1	S
20250801.03	0.22	SW	2.1	2	SW
20250801.06	0.25	SW	1.9	4	S
20250801.09	0.33	W	2.0	7	E
20250801.12	0.45	W	2.2	9	SE
20250801.15	0.54	NW	2.5	6	SE
20250801.18	0.48	NW	2.7	3	SE
20250801.21	0.40	NW	2.9	3	SE
20250802.00	0.34	W	2.8	3	E
20250802.03	0.31	W	2.6	4	E
20250802.06	0.31	W	2.3	4	E
20250802.09	0.31	NW	2.2	4	SE
20250802.12	0.30	NW	2.3	4	W
20250802.15	0.27	NW	2.6	5	NW
20250802.18	0.27	W	2.6	6	N
20250802.21	0.31	S	2.2	5	N
20250803.00	0.30	S	2.3	3	SE
20250803.03	0.29	S	2.6	2	S
20250803.06	0.29	S	2.7	3	N
20250803.09	0.29	S	2.7	2	W
20250803.12	0.30	S	2.7	3	NW
20250803.15	0.31	S	2.6	3	W
20250803.18	0.32	S	2.4	4	NW
20250803.21	0.36	S	2.4	4	W
20250804.00	0.43	SW	2.6	4	S
20250804.03	0.50	SW	3.0	4	S
20250804.06	0.47	SW	3.2	3	S
20250804.09	0.41	SW	3.1	2	SW
20250804.12	0.37	SW	2.9	1	SW
20250804.15	0.35	SW	2.8	2	SW
20250804.18	0.33	SW	2.9	4	SW
20250804.21	0.33	SW	2.8	6	S
20250805.00	0.46	SW	2.7	9	S
20250805.03	0.59	W	2.9	8	SE
20250805.06	0.62	W	3.1	6	S
20250805.09	0.64	W	3.3	5	NE
20250805.12	0.60	SW	3.6	5	NW

Wind condition in the Aktau

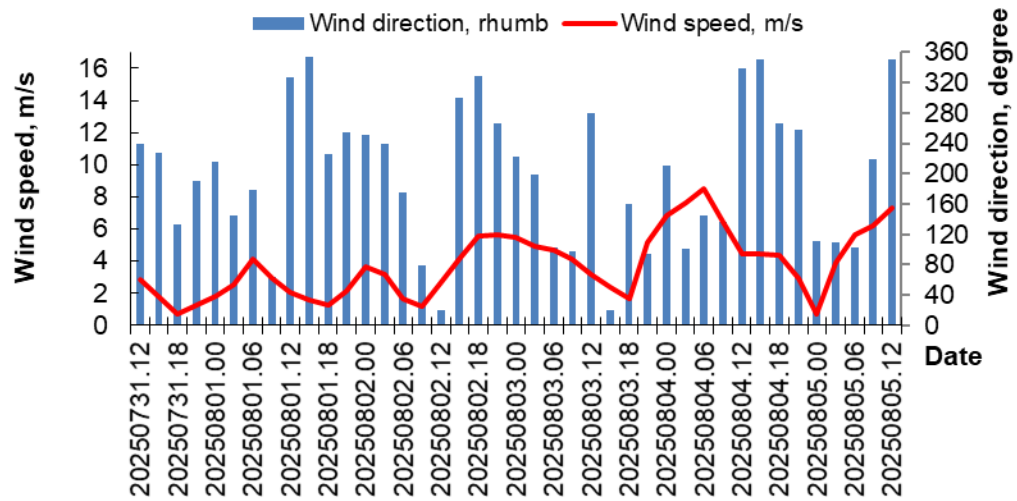


Wave condition in the Aktau

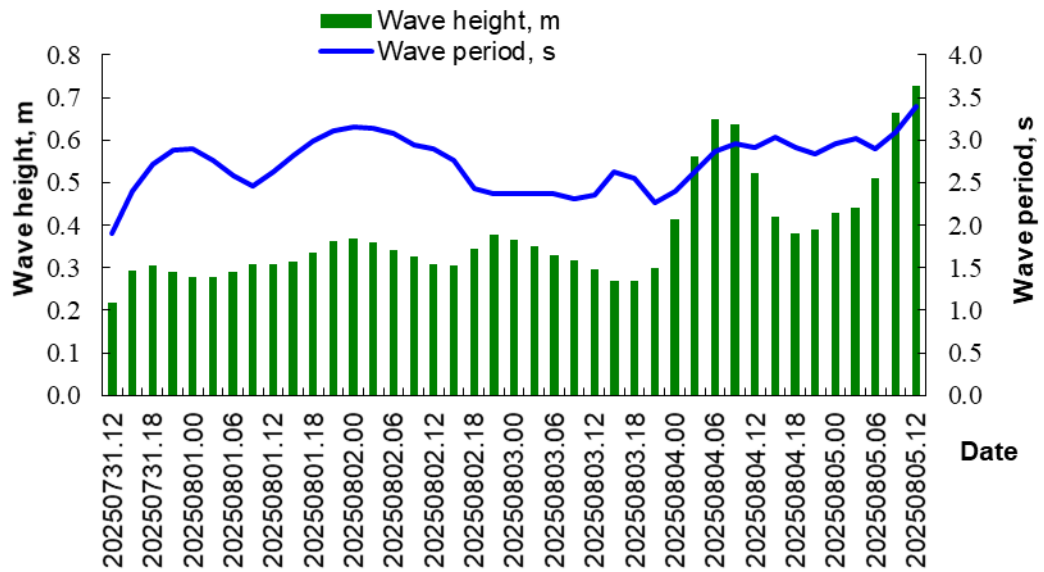


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250731.12	0.33	S	2.2	2	W
20250731.15	0.36	S	2.5	2	N
20250731.18	0.31	S	2.6	1	NE
20250731.21	0.27	S	2.7	1	W
20250801.00	0.24	SE	2.8	1	SW
20250801.03	0.24	SE	2.8	2	SE
20250801.06	0.26	S	2.5	5	S
20250801.09	0.32	W	2.3	5	SE
20250801.12	0.38	W	2.4	3	E
20250801.15	0.42	W	2.6	3	E
20250801.18	0.45	W	2.8	3	S
20250801.21	0.44	W	3.0	2	SE
20250802.00	0.40	W	3.1	3	SW
20250802.03	0.37	W	3.0	4	S
20250802.06	0.36	W	2.6	5	E
20250802.09	0.36	W	2.4	4	SE
20250802.12	0.35	NW	2.5	4	NE
20250802.15	0.33	N	2.5	5	W
20250802.18	0.34	E	2.4	6	NW
20250802.21	0.35	SE	2.4	4	NW
20250803.00	0.34	SE	2.5	1	S
20250803.03	0.33	SE	2.7	3	E
20250803.06	0.31	S	2.8	4	E
20250803.09	0.29	S	2.8	3	E
20250803.12	0.27	S	2.9	1	NW
20250803.15	0.26	S	2.9	3	SW
20250803.18	0.28	S	2.5	3	SW
20250803.21	0.34	SW	2.2	5	S
20250804.00	0.41	SW	2.3	5	E
20250804.03	0.48	W	2.6	6	SE
20250804.06	0.51	W	2.7	6	SE
20250804.09	0.49	W	2.8	5	E
20250804.12	0.43	W	2.8	5	W
20250804.15	0.39	W	2.8	5	W
20250804.18	0.40	SW	2.6	5	W
20250804.21	0.44	SW	2.6	5	SW
20250805.00	0.48	SW	2.7	5	E
20250805.03	0.48	SW	2.8	5	E
20250805.06	0.55	W	2.8	6	E
20250805.09	0.66	W	3.1	5	SW
20250805.12	0.66	SW	3.5	6	NW

Wind condition in the Peschanyi

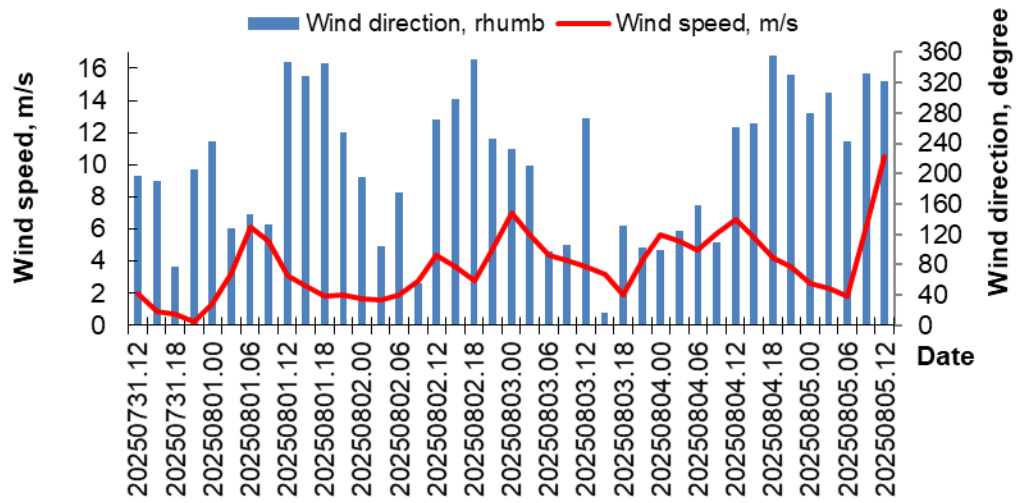


Wave condition in the Peschanyi

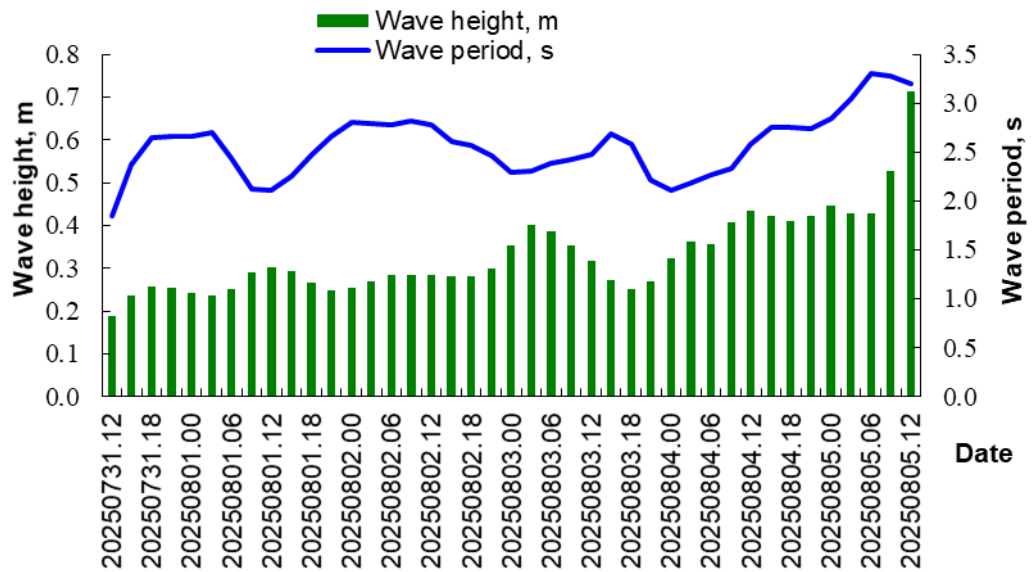


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250731.12	0.22	S	1.9	3	SW
20250731.15	0.29	S	2.4	2	SW
20250731.18	0.31	S	2.7	1	SE
20250731.21	0.29	S	2.9	1	S
20250801.00	0.28	SE	2.9	2	SW
20250801.03	0.28	SE	2.8	3	SE
20250801.06	0.29	S	2.6	4	S
20250801.09	0.31	S	2.5	3	NE
20250801.12	0.31	W	2.6	2	NW
20250801.15	0.31	W	2.8	2	N
20250801.18	0.34	W	3.0	1	SW
20250801.21	0.36	W	3.1	2	W
20250802.00	0.37	W	3.2	4	W
20250802.03	0.36	W	3.1	3	SW
20250802.06	0.34	W	3.1	2	S
20250802.09	0.33	W	2.9	1	E
20250802.12	0.31	W	2.9	3	N
20250802.15	0.30	NW	2.8	4	NW
20250802.18	0.34	SE	2.4	6	NW
20250802.21	0.38	SE	2.4	6	W
20250803.00	0.37	S	2.4	5	SW
20250803.03	0.35	S	2.4	5	S
20250803.06	0.33	SW	2.4	5	E
20250803.09	0.32	SW	2.3	4	E
20250803.12	0.30	SW	2.4	3	W
20250803.15	0.27	SW	2.6	2	N
20250803.18	0.27	SW	2.6	2	S
20250803.21	0.30	SW	2.3	5	E
20250804.00	0.42	SW	2.4	7	SW
20250804.03	0.56	W	2.6	8	E
20250804.06	0.65	W	2.9	9	SE
20250804.09	0.64	W	3.0	6	SE
20250804.12	0.52	W	2.9	4	N
20250804.15	0.42	W	3.0	4	N
20250804.18	0.38	W	2.9	4	W
20250804.21	0.39	SW	2.8	3	W
20250805.00	0.43	SW	3.0	1	E
20250805.03	0.44	SW	3.0	4	E
20250805.06	0.51	W	2.9	6	E
20250805.09	0.66	W	3.1	6	SW
20250805.12	0.73	SW	3.4	7	N

Wind condition in the Fetisovo

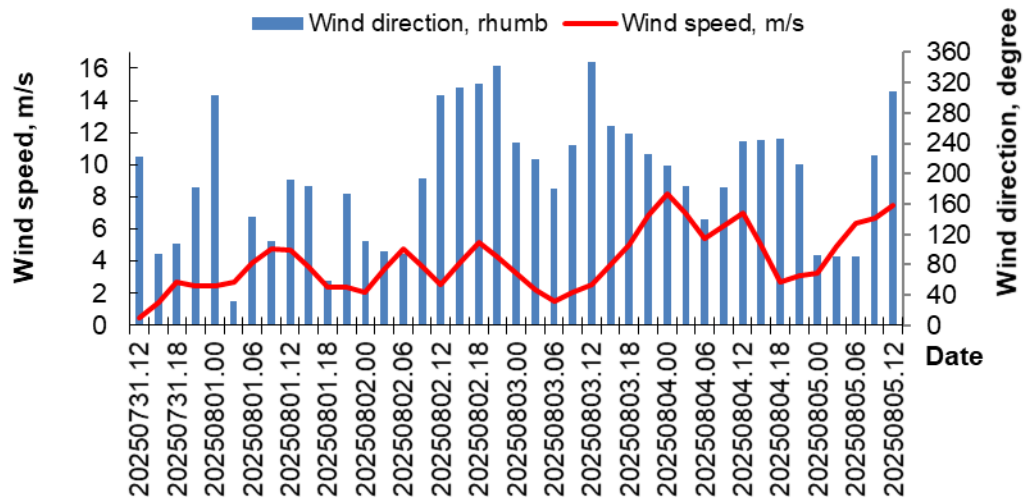


Wave condition in the Fetisovo

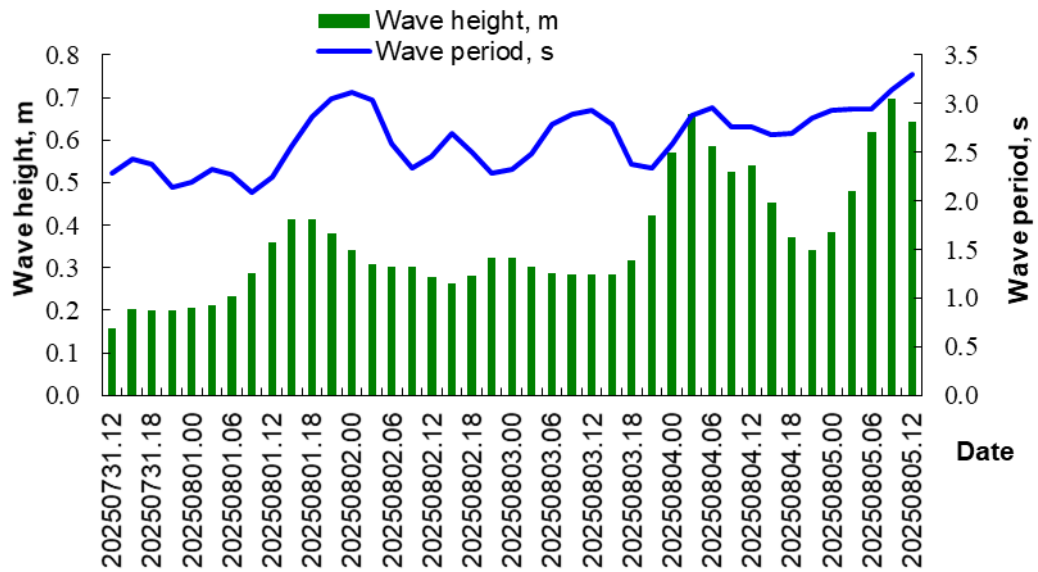


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250731.12	0.19	SW	1.8	2	S
20250731.15	0.24	S	2.4	1	S
20250731.18	0.26	SE	2.6	1	E
20250731.21	0.25	SE	2.7	0	SW
20250801.00	0.24	SE	2.7	1	SW
20250801.03	0.24	SE	2.7	3	SE
20250801.06	0.25	SE	2.4	6	SE
20250801.09	0.29	NW	2.1	5	SE
20250801.12	0.30	NW	2.1	3	N
20250801.15	0.29	N	2.3	2	NW
20250801.18	0.27	N	2.5	2	N
20250801.21	0.25	NW	2.7	2	W
20250802.00	0.25	NW	2.8	2	S
20250802.03	0.27	W	2.8	2	E
20250802.06	0.28	W	2.8	2	S
20250802.09	0.28	W	2.8	3	NE
20250802.12	0.28	NW	2.8	4	W
20250802.15	0.28	NW	2.6	4	NW
20250802.18	0.28	NW	2.6	3	N
20250802.21	0.30	S	2.5	5	SW
20250803.00	0.35	S	2.3	7	SW
20250803.03	0.40	SW	2.3	6	SW
20250803.06	0.39	SW	2.4	4	E
20250803.09	0.35	SW	2.4	4	E
20250803.12	0.32	SW	2.5	4	W
20250803.15	0.27	SW	2.7	3	N
20250803.18	0.25	SW	2.6	2	SE
20250803.21	0.27	SW	2.2	4	E
20250804.00	0.32	W	2.1	6	E
20250804.03	0.36	W	2.2	5	SE
20250804.06	0.36	W	2.3	5	S
20250804.09	0.41	W	2.3	6	E
20250804.12	0.43	W	2.6	7	W
20250804.15	0.42	W	2.8	6	W
20250804.18	0.41	SW	2.8	4	N
20250804.21	0.42	SW	2.7	4	NW
20250805.00	0.45	SW	2.8	3	W
20250805.03	0.43	SW	3.0	2	NW
20250805.06	0.43	SW	3.3	2	SW
20250805.09	0.53	SW	3.3	6	NW
20250805.12	0.71	S	3.2	11	NW

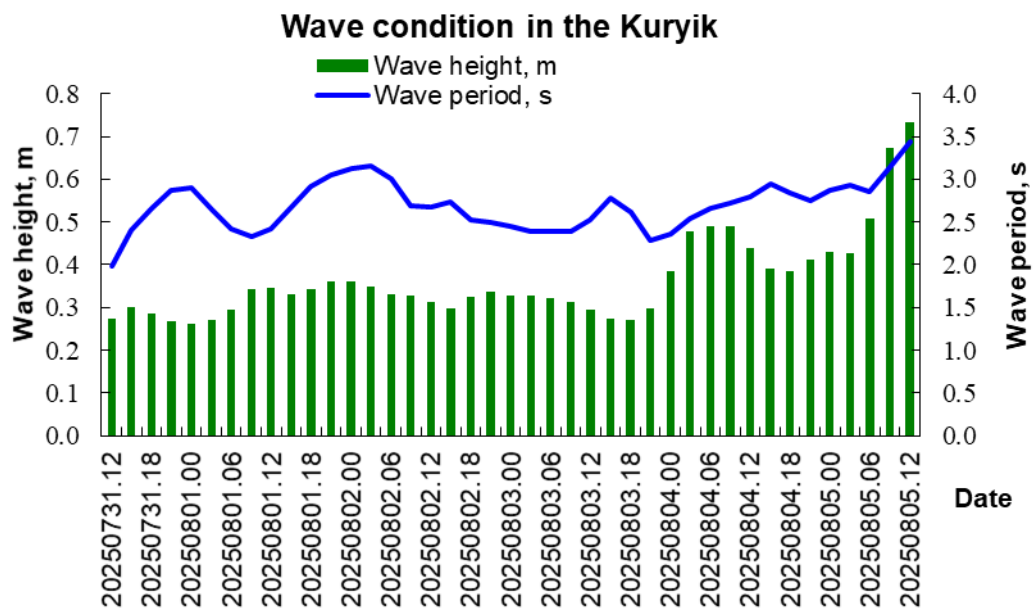
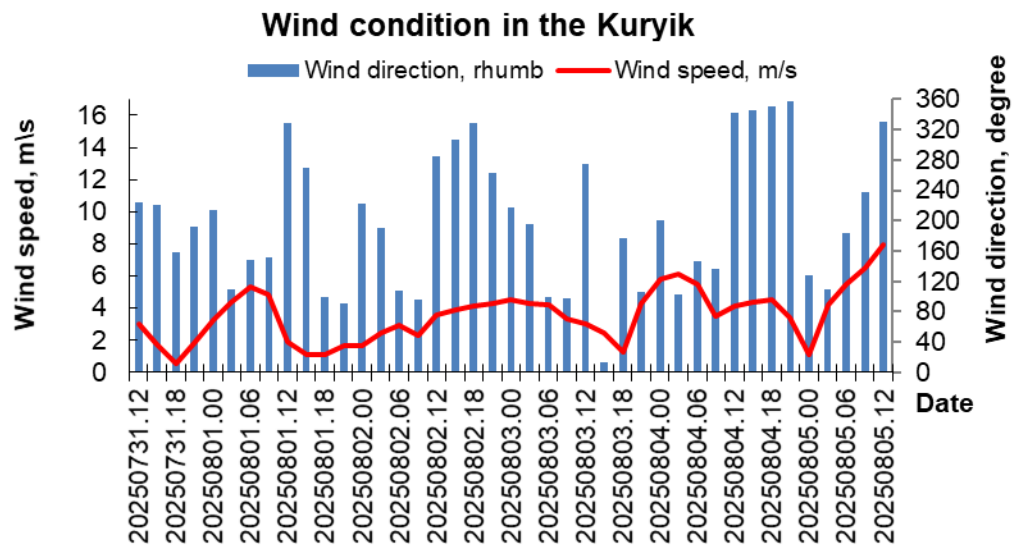
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250731.12	0.16	S	2.3	0	SW
20250731.15	0.20	S	2.4	1	E
20250731.18	0.20	S	2.4	3	E
20250731.21	0.20	S	2.1	2	S
20250801.00	0.21	S	2.2	2	NW
20250801.03	0.21	S	2.3	3	NE
20250801.06	0.23	S	2.3	4	SE
20250801.09	0.29	SW	2.1	5	E
20250801.12	0.36	W	2.3	5	S
20250801.15	0.42	W	2.6	4	S
20250801.18	0.41	W	2.9	2	NE
20250801.21	0.38	W	3.0	2	S
20250802.00	0.34	W	3.1	2	E
20250802.03	0.31	W	3.0	4	E
20250802.06	0.30	W	2.6	5	E
20250802.09	0.30	W	2.3	4	S
20250802.12	0.28	W	2.5	3	NW
20250802.15	0.26	NW	2.7	4	NW
20250802.18	0.28	W	2.5	5	NW
20250802.21	0.32	SE	2.3	4	N
20250803.00	0.32	SE	2.3	3	SW
20250803.03	0.30	SE	2.5	2	SW
20250803.06	0.29	SE	2.8	2	S
20250803.09	0.28	S	2.9	2	SW
20250803.12	0.28	S	2.9	3	N
20250803.15	0.28	S	2.8	4	W
20250803.18	0.32	S	2.4	5	W
20250803.21	0.42	S	2.3	7	SW
20250804.00	0.57	SW	2.6	8	SW
20250804.03	0.66	SW	2.9	7	S
20250804.06	0.59	SW	3.0	5	SE
20250804.09	0.53	W	2.8	6	S
20250804.12	0.54	SW	2.8	7	SW
20250804.15	0.45	SW	2.7	5	SW
20250804.18	0.37	SW	2.7	3	SW
20250804.21	0.34	SW	2.9	3	SW
20250805.00	0.38	SW	2.9	3	E
20250805.03	0.48	SW	2.9	5	E
20250805.06	0.62	W	2.9	6	E
20250805.09	0.70	SW	3.1	7	SW
20250805.12	0.64	SW	3.3	7	NW



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250731.12	0.27	SW	2.0	3	SW
20250731.15	0.30	S	2.4	2	SW
20250731.18	0.29	S	2.7	1	S
20250731.21	0.27	S	2.9	2	S
20250801.00	0.26	SE	2.9	3	SW
20250801.03	0.27	SE	2.7	4	E
20250801.06	0.30	SE	2.4	5	SE
20250801.09	0.34	NE	2.3	5	SE
20250801.12	0.34	NW	2.4	2	NW
20250801.15	0.33	NW	2.7	1	W
20250801.18	0.34	NW	2.9	1	E
20250801.21	0.36	W	3.0	2	E
20250802.00	0.36	W	3.1	2	SW
20250802.03	0.35	W	3.1	2	S
20250802.06	0.33	W	3.0	3	E
20250802.09	0.33	W	2.7	2	E
20250802.12	0.31	W	2.7	4	W
20250802.15	0.30	NW	2.7	4	NW
20250802.18	0.32	SW	2.5	4	NW
20250802.21	0.34	SE	2.5	4	W
20250803.00	0.33	S	2.5	4	SW
20250803.03	0.33	S	2.4	4	S
20250803.06	0.32	SW	2.4	4	E
20250803.09	0.31	SW	2.4	3	E
20250803.12	0.30	SW	2.5	3	W
20250803.15	0.27	SW	2.8	2	N
20250803.18	0.27	SW	2.6	1	S
20250803.21	0.30	SW	2.3	4	E
20250804.00	0.38	SW	2.4	6	S
20250804.03	0.48	W	2.5	6	E
20250804.06	0.49	W	2.7	5	SE
20250804.09	0.49	W	2.7	4	SE
20250804.12	0.44	W	2.8	4	N
20250804.15	0.39	W	3.0	4	N
20250804.18	0.39	W	2.8	5	N
20250804.21	0.41	SW	2.8	3	N
20250805.00	0.43	SW	2.9	1	SE
20250805.03	0.43	SW	2.9	4	E
20250805.06	0.51	W	2.9	6	S
20250805.09	0.67	SW	3.1	6	SW
20250805.12	0.73	SW	3.4	8	NW

**Calculation characteristics were obtained using the SWAN wave model, adapted in RSE «Kazhydromet» to the conditions of the Caspian Sea.*

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Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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