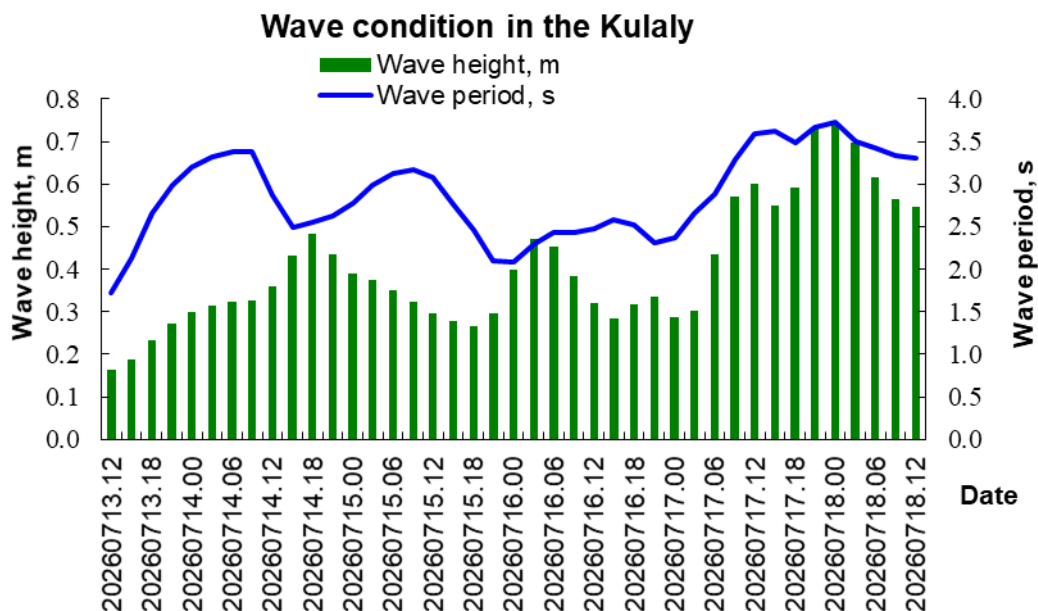
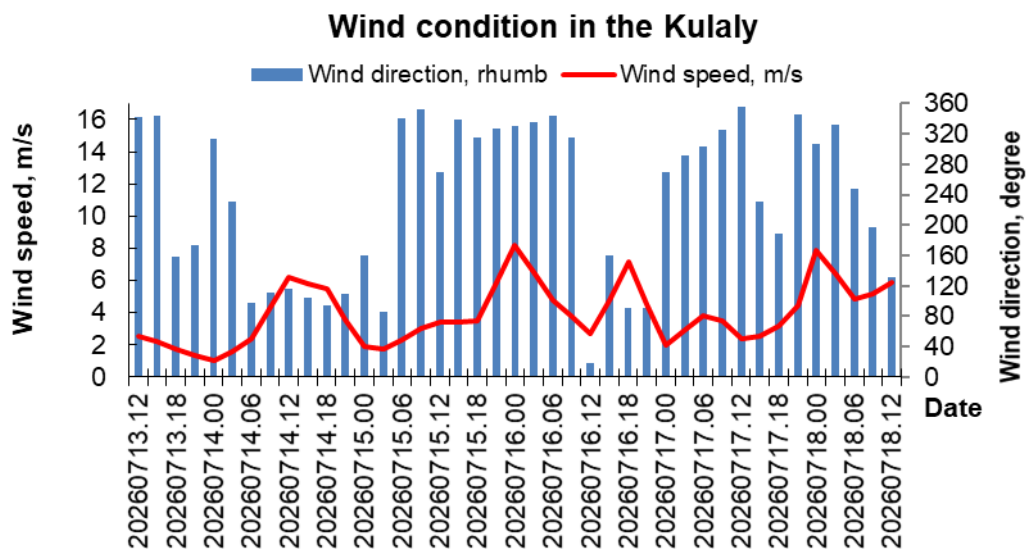




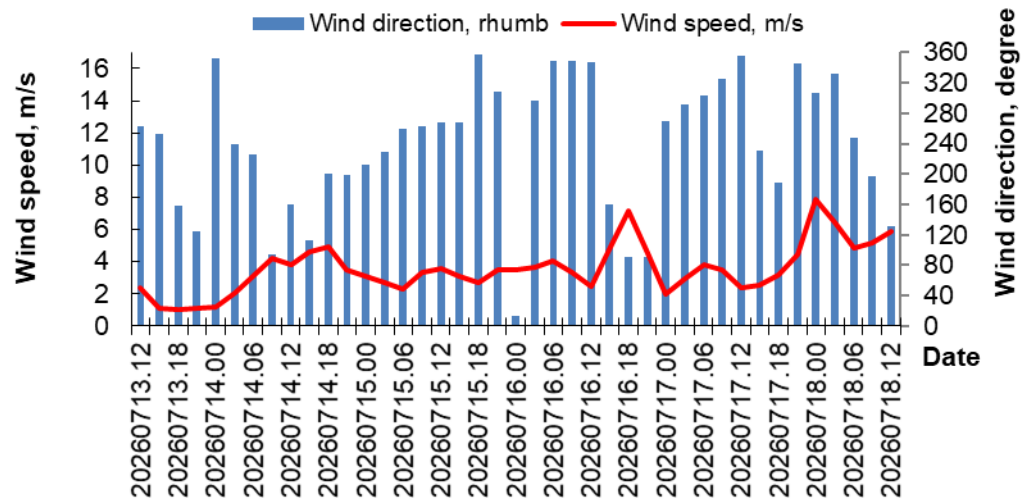
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 13 – 18, 2026 .**

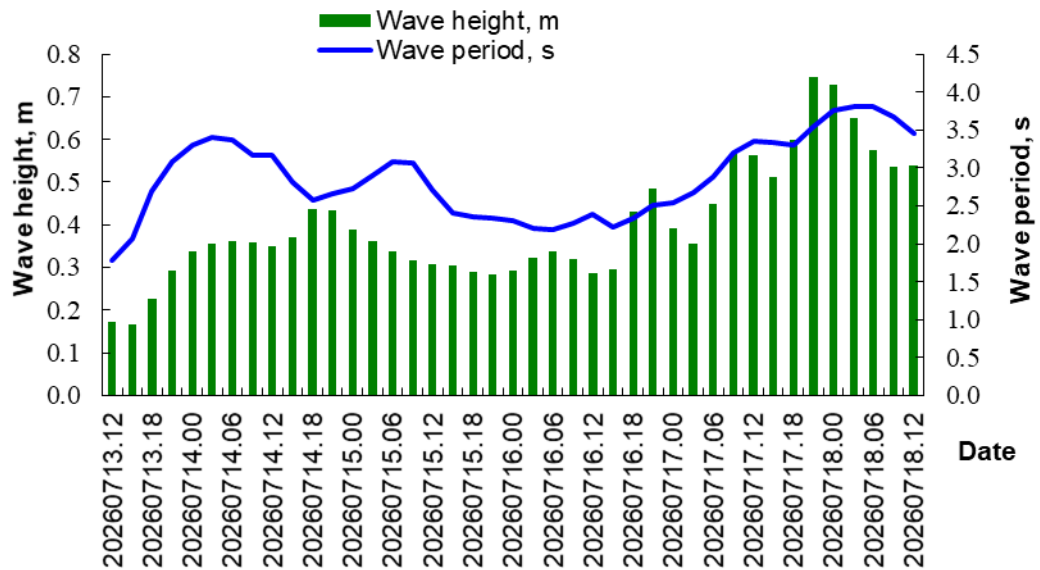


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260713.12	0.16	S	1.7	3	N
20260713.15	0.19	S	2.1	2	N
20260713.18	0.23	S	2.7	2	S
20260713.21	0.27	S	3.0	1	S
20260714.00	0.30	S	3.2	1	NW
20260714.03	0.32	S	3.3	2	SW
20260714.06	0.32	S	3.4	2	E
20260714.09	0.33	SE	3.4	4	E
20260714.12	0.36	S	2.9	6	SE
20260714.15	0.43	SW	2.5	6	E
20260714.18	0.48	W	2.5	5	E
20260714.21	0.43	SW	2.6	4	E
20260715.00	0.39	SW	2.8	2	S
20260715.03	0.38	SW	3.0	2	E
20260715.06	0.35	SW	3.1	2	N
20260715.09	0.32	SW	3.2	3	N
20260715.12	0.30	SW	3.1	3	W
20260715.15	0.28	SW	2.8	3	N
20260715.18	0.27	SW	2.5	3	NW
20260715.21	0.30	S	2.1	6	NW
20260716.00	0.40	SE	2.1	8	NW
20260716.03	0.47	SE	2.3	6	NW
20260716.06	0.45	SE	2.4	5	N
20260716.09	0.38	S	2.4	4	NW
20260716.12	0.32	S	2.5	3	N
20260716.15	0.28	S	2.6	5	S
20260716.18	0.32	SW	2.5	7	E
20260716.21	0.34	SW	2.3	4	E
20260717.00	0.29	SW	2.4	2	W
20260717.03	0.30	S	2.7	3	W
20260717.06	0.43	S	2.9	4	NW
20260717.09	0.57	S	3.3	3	NW
20260717.12	0.60	S	3.6	2	N
20260717.15	0.55	S	3.6	3	SW
20260717.18	0.59	SW	3.5	3	S
20260717.21	0.73	SW	3.7	4	N
20260718.00	0.74	SW	3.7	8	NW
20260718.03	0.70	SW	3.5	6	NW
20260718.06	0.62	SW	3.4	5	SW
20260718.09	0.57	SW	3.3	5	S
20260718.12	0.55	SW	3.3	6	SE

Wind condition in the Fort-Shevchenko

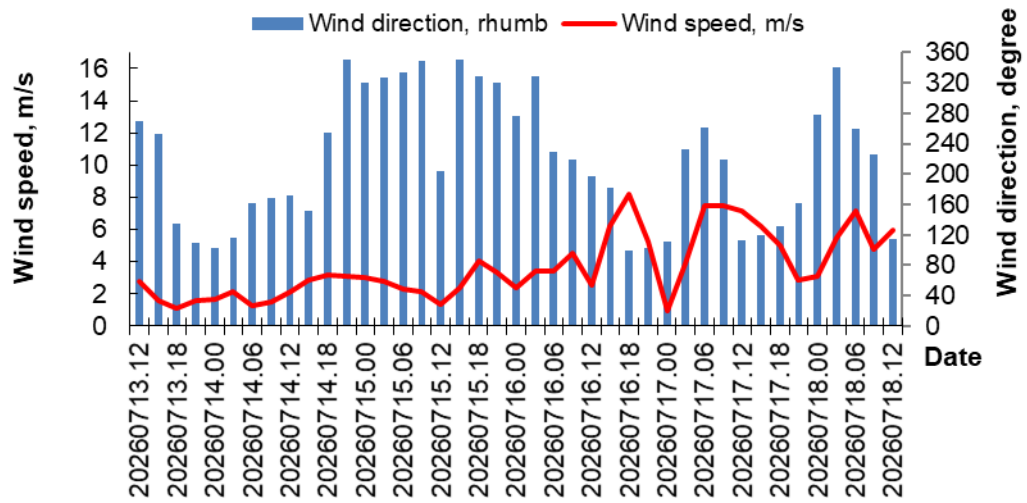


Wave condition in the Fort-Shevchenko

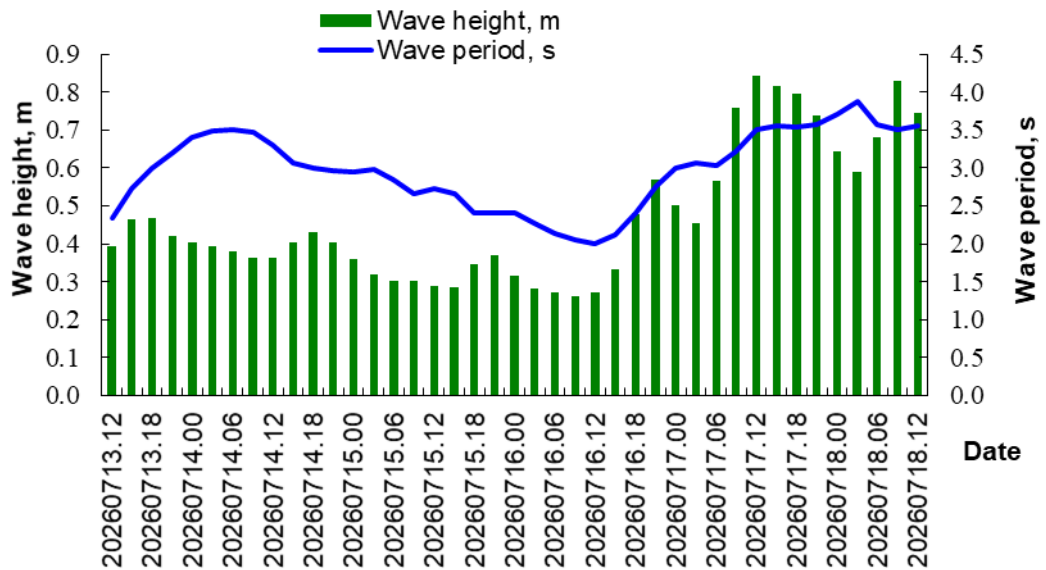


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260713.12	0.17	S	1.8	2	W
20260713.15	0.17	S	2.1	1	W
20260713.18	0.23	S	2.7	1	S
20260713.21	0.29	S	3.1	1	SE
20260714.00	0.34	S	3.3	1	N
20260714.03	0.36	S	3.4	2	SW
20260714.06	0.36	S	3.4	3	SW
20260714.09	0.36	S	3.2	4	E
20260714.12	0.35	S	3.2	4	S
20260714.15	0.37	S	2.8	5	E
20260714.18	0.44	SW	2.6	5	S
20260714.21	0.43	SW	2.7	4	S
20260715.00	0.39	SW	2.7	3	SW
20260715.03	0.36	SW	2.9	3	SW
20260715.06	0.34	SW	3.1	2	W
20260715.09	0.32	SW	3.1	3	W
20260715.12	0.31	SW	2.7	4	W
20260715.15	0.31	SW	2.4	3	W
20260715.18	0.29	SW	2.4	3	N
20260715.21	0.28	S	2.3	3	NW
20260716.00	0.29	S	2.3	3	N
20260716.03	0.32	SE	2.2	4	NW
20260716.06	0.34	S	2.2	4	N
20260716.09	0.32	S	2.3	3	N
20260716.12	0.29	S	2.4	2	N
20260716.15	0.30	S	2.2	5	S
20260716.18	0.43	SW	2.3	7	E
20260716.21	0.48	SW	2.5	4	E
20260717.00	0.39	SW	2.5	2	W
20260717.03	0.36	SW	2.7	3	W
20260717.06	0.45	S	2.9	4	NW
20260717.09	0.57	S	3.2	3	NW
20260717.12	0.56	S	3.4	2	N
20260717.15	0.51	SW	3.3	3	SW
20260717.18	0.60	SW	3.3	3	S
20260717.21	0.75	W	3.5	4	N
20260718.00	0.73	W	3.8	8	NW
20260718.03	0.65	W	3.8	6	NW
20260718.06	0.58	SW	3.8	5	SW
20260718.09	0.54	SW	3.7	5	S
20260718.12	0.54	SW	3.5	6	SE

Wind condition in the Aktau

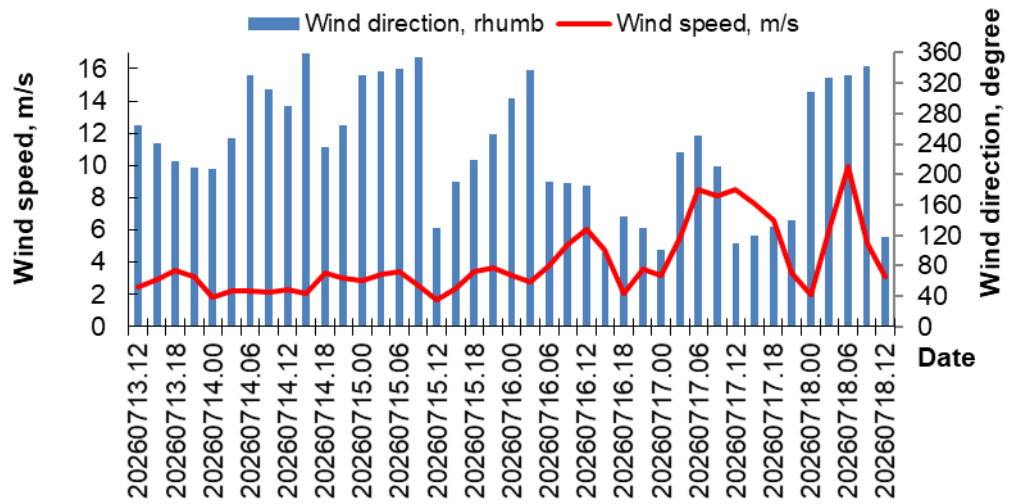


Wave condition in the Aktau

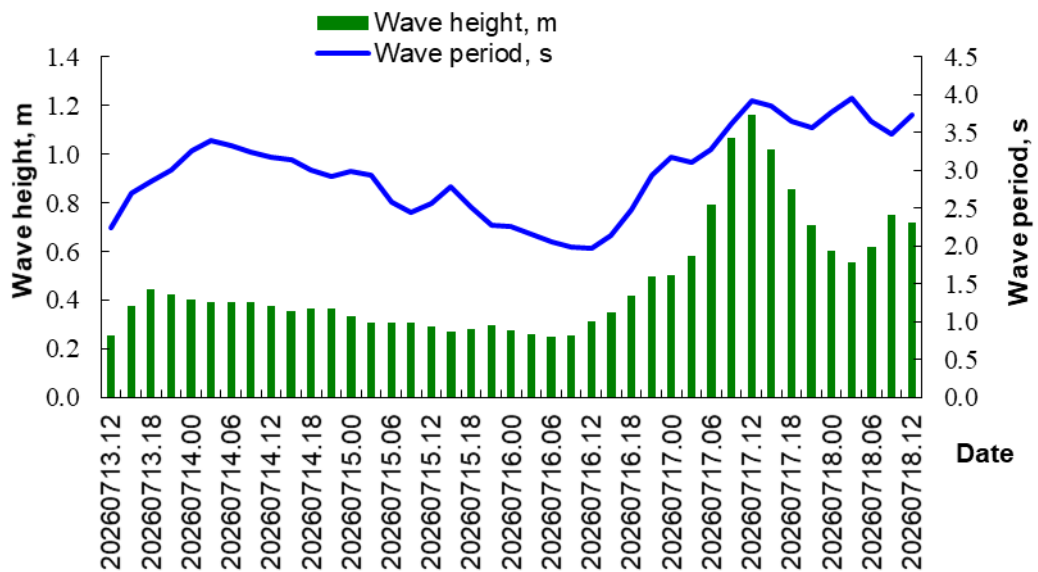


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260713.12	0.39	S	2.3	3	W
20260713.15	0.47	S	2.7	2	W
20260713.18	0.47	S	3.0	1	SE
20260713.21	0.42	S	3.2	2	E
20260714.00	0.40	S	3.4	2	E
20260714.03	0.39	S	3.5	2	SE
20260714.06	0.38	S	3.5	1	S
20260714.09	0.36	S	3.5	2	S
20260714.12	0.36	S	3.3	2	S
20260714.15	0.40	SW	3.1	3	SE
20260714.18	0.43	SW	3.0	3	W
20260714.21	0.40	SW	3.0	3	N
20260715.00	0.36	SW	2.9	3	NW
20260715.03	0.32	SW	3.0	3	NW
20260715.06	0.30	SW	2.8	2	NW
20260715.09	0.30	SW	2.7	2	N
20260715.12	0.29	SW	2.7	1	SW
20260715.15	0.28	SW	2.7	2	N
20260715.18	0.35	S	2.4	4	NW
20260715.21	0.37	SE	2.4	3	NW
20260716.00	0.32	SE	2.4	2	W
20260716.03	0.28	S	2.3	3	NW
20260716.06	0.27	S	2.1	3	SW
20260716.09	0.26	S	2.1	5	SW
20260716.12	0.27	SW	2.0	3	S
20260716.15	0.33	SW	2.1	6	S
20260716.18	0.48	W	2.4	8	E
20260716.21	0.57	W	2.8	5	E
20260717.00	0.50	W	3.0	1	E
20260717.03	0.45	SW	3.1	4	SW
20260717.06	0.56	SW	3.0	7	W
20260717.09	0.76	SW	3.2	7	SW
20260717.12	0.84	SW	3.5	7	SE
20260717.15	0.82	SW	3.6	6	SE
20260717.18	0.80	W	3.5	5	SE
20260717.21	0.74	W	3.6	3	S
20260718.00	0.64	W	3.7	3	W
20260718.03	0.59	W	3.9	6	N
20260718.06	0.68	SW	3.6	7	W
20260718.09	0.83	SW	3.5	5	SW
20260718.12	0.75	SW	3.6	6	SE

Wind condition in the Peschanyi

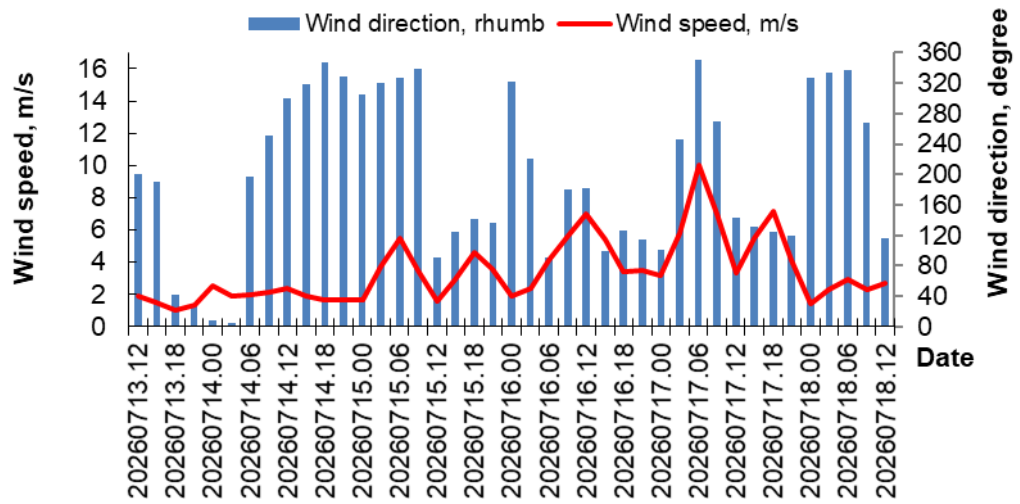


Wave condition in the Peschanyi

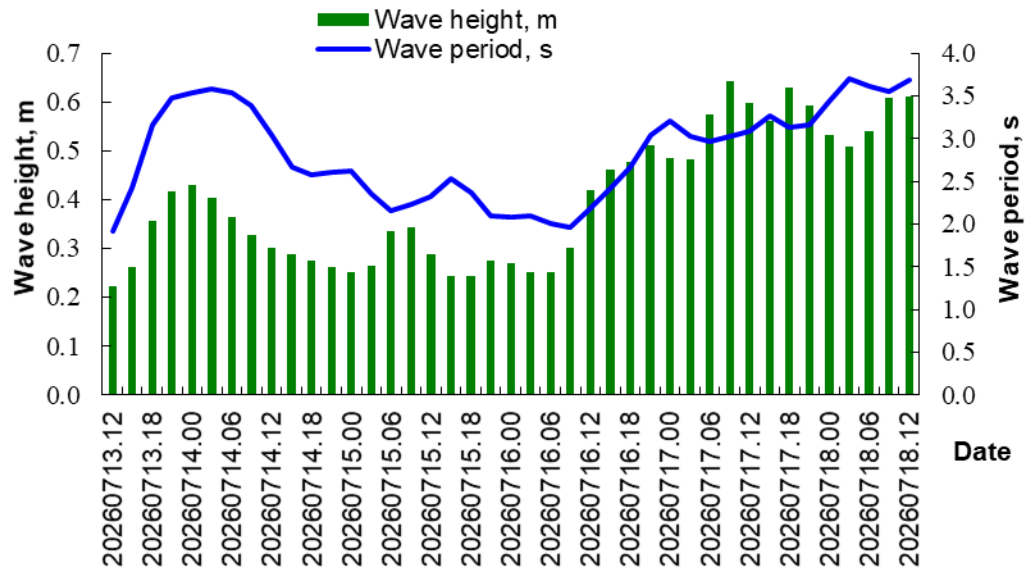


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260713.12	0.26	S	2.2	2	W
20260713.15	0.38	SE	2.7	3	SW
20260713.18	0.44	SE	2.9	3	SW
20260713.21	0.42	SE	3.0	3	SW
20260714.00	0.40	S	3.3	2	SW
20260714.03	0.39	S	3.4	2	SW
20260714.06	0.39	S	3.3	2	NW
20260714.09	0.39	S	3.2	2	NW
20260714.12	0.37	S	3.2	2	W
20260714.15	0.35	S	3.1	2	N
20260714.18	0.37	S	3.0	3	SW
20260714.21	0.37	SW	2.9	3	W
20260715.00	0.34	SW	3.0	3	NW
20260715.03	0.31	SW	2.9	3	NW
20260715.06	0.31	SW	2.6	3	N
20260715.09	0.31	SW	2.5	3	N
20260715.12	0.29	SW	2.6	2	SE
20260715.15	0.27	SW	2.8	2	S
20260715.18	0.28	SW	2.5	3	SW
20260715.21	0.29	S	2.3	4	W
20260716.00	0.28	S	2.3	3	NW
20260716.03	0.26	S	2.2	3	NW
20260716.06	0.25	S	2.1	4	S
20260716.09	0.26	SW	2.0	5	S
20260716.12	0.32	SW	2.0	6	S
20260716.15	0.35	W	2.1	5	E
20260716.18	0.42	W	2.5	2	SE
20260716.21	0.50	W	2.9	4	SE
20260717.00	0.50	W	3.2	3	E
20260717.03	0.58	SW	3.1	6	SW
20260717.06	0.79	SW	3.3	8	W
20260717.09	1.07	SW	3.6	8	SW
20260717.12	1.16	SW	3.9	9	E
20260717.15	1.02	SW	3.9	8	SE
20260717.18	0.86	W	3.6	7	SE
20260717.21	0.71	W	3.6	3	SE
20260718.00	0.61	W	3.8	2	NW
20260718.03	0.56	W	4.0	6	NW
20260718.06	0.62	SW	3.6	10	NW
20260718.09	0.75	SW	3.5	5	N
20260718.12	0.72	SW	3.7	3	SE

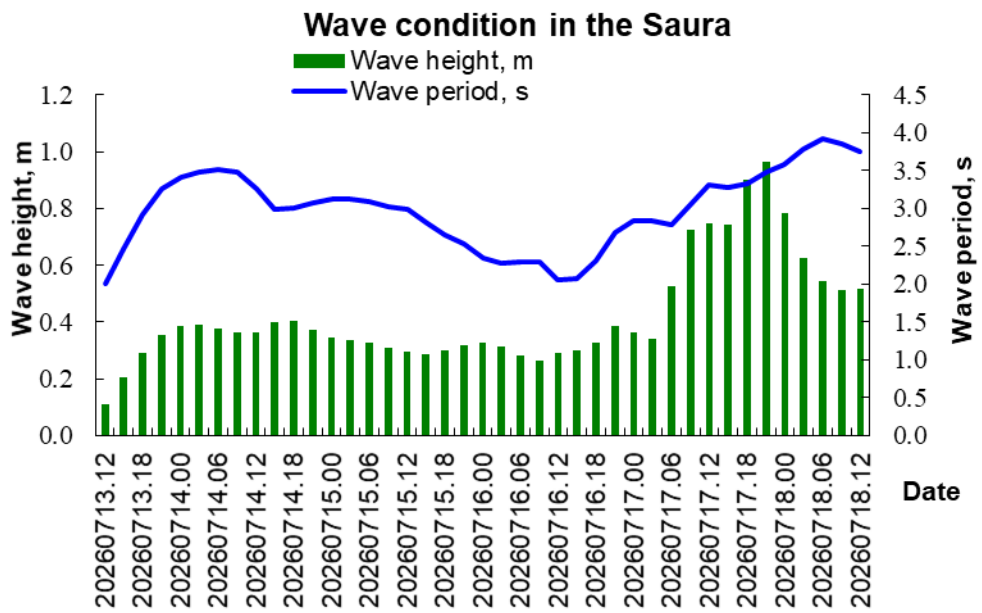
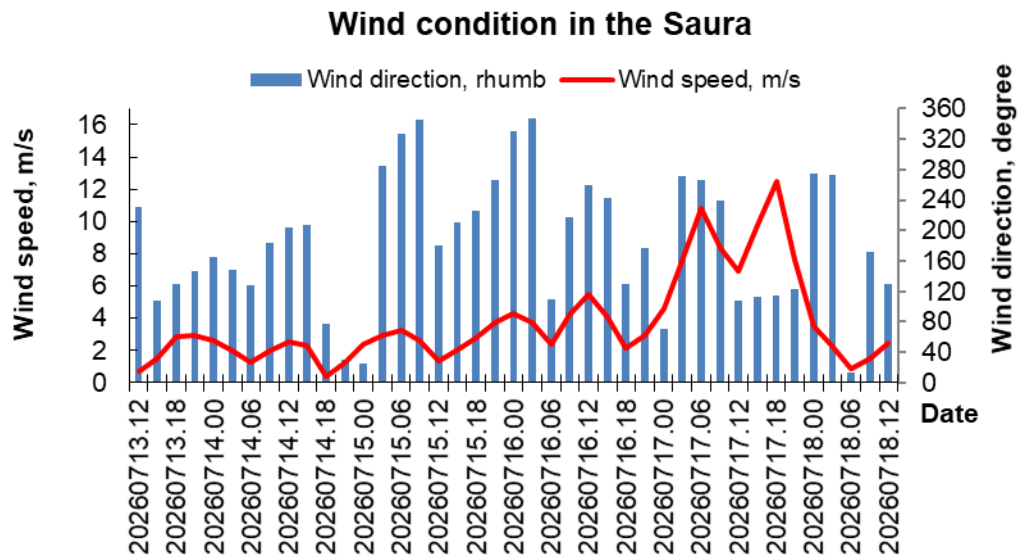
Wind condition in the Fetisovo



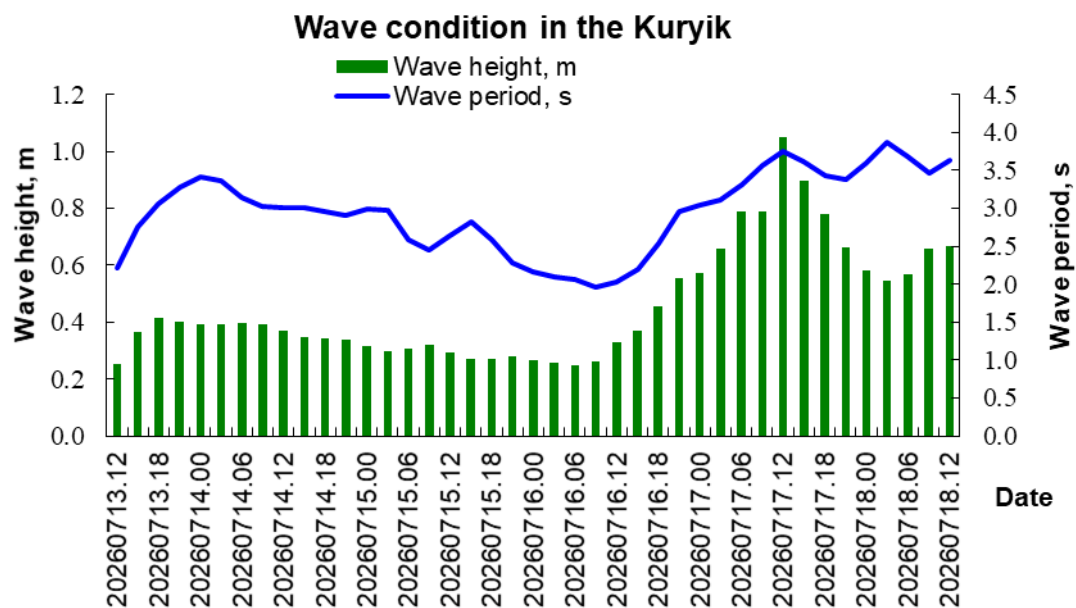
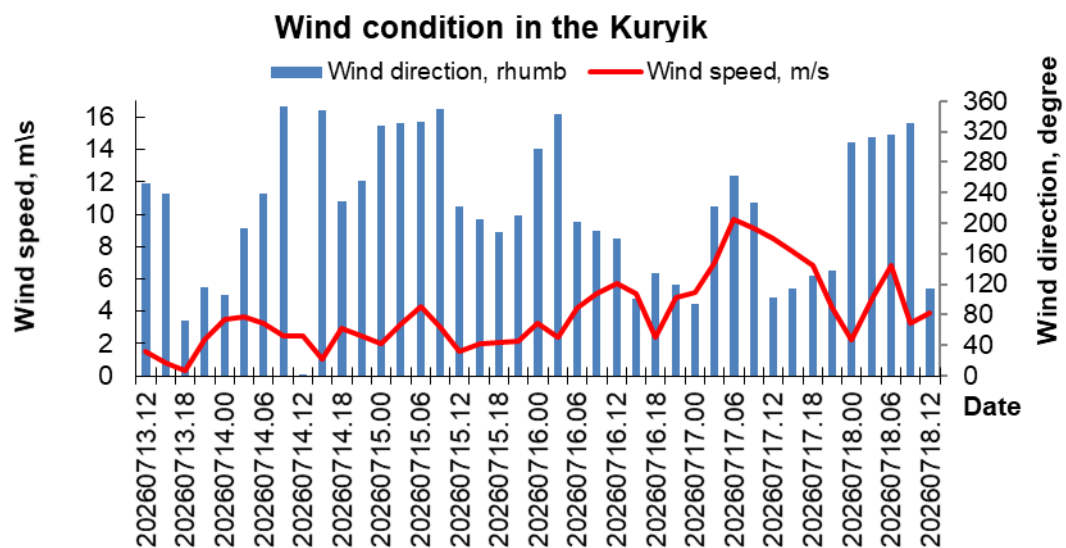
Wave condition in the Fetisovo



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260713.12	0.22	SW	1.9	2	S
20260713.15	0.26	S	2.4	2	S
20260713.18	0.36	S	3.2	1	NE
20260713.21	0.42	S	3.5	1	NE
20260714.00	0.43	S	3.5	3	N
20260714.03	0.40	S	3.6	2	N
20260714.06	0.36	S	3.5	2	S
20260714.09	0.33	S	3.4	2	W
20260714.12	0.30	S	3.0	2	NW
20260714.15	0.29	S	2.7	2	NW
20260714.18	0.27	S	2.6	2	N
20260714.21	0.26	S	2.6	2	NW
20260715.00	0.25	S	2.6	2	NW
20260715.03	0.26	S	2.4	4	NW
20260715.06	0.33	S	2.2	6	NW
20260715.09	0.34	S	2.2	3	N
20260715.12	0.29	S	2.3	2	E
20260715.15	0.24	S	2.5	3	SE
20260715.18	0.24	SW	2.4	5	SE
20260715.21	0.28	W	2.1	4	SE
20260716.00	0.27	W	2.1	2	NW
20260716.03	0.25	W	2.1	2	SW
20260716.06	0.25	W	2.0	4	E
20260716.09	0.30	W	2.0	6	S
20260716.12	0.42	W	2.2	7	S
20260716.15	0.46	W	2.4	5	E
20260716.18	0.48	W	2.7	3	SE
20260716.21	0.51	W	3.0	4	SE
20260717.00	0.48	W	3.2	3	E
20260717.03	0.48	W	3.0	6	SW
20260717.06	0.58	SW	3.0	10	N
20260717.09	0.64	SW	3.0	7	W
20260717.12	0.60	SW	3.1	3	SE
20260717.15	0.56	W	3.3	5	SE
20260717.18	0.63	W	3.1	7	SE
20260717.21	0.59	W	3.2	4	SE
20260718.00	0.53	W	3.4	1	NW
20260718.03	0.51	W	3.7	2	NW
20260718.06	0.54	W	3.6	3	NW
20260718.09	0.61	SW	3.6	2	W
20260718.12	0.61	SW	3.7	3	SE



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260713.12	0.11	S	2.0	1	SW
20260713.15	0.21	S	2.5	2	E
20260713.18	0.29	S	2.9	3	SE
20260713.21	0.35	S	3.3	3	SE
20260714.00	0.38	S	3.4	3	S
20260714.03	0.39	S	3.5	2	SE
20260714.06	0.38	S	3.5	1	SE
20260714.09	0.36	S	3.5	2	S
20260714.12	0.36	S	3.3	3	SW
20260714.15	0.40	SW	3.0	2	SW
20260714.18	0.40	SW	3.0	0	E
20260714.21	0.37	SW	3.1	1	NE
20260715.00	0.35	SW	3.1	2	NE
20260715.03	0.34	SW	3.1	3	W
20260715.06	0.33	SW	3.1	3	NW
20260715.09	0.31	SW	3.0	3	N
20260715.12	0.29	SW	3.0	1	S
20260715.15	0.29	SW	2.8	2	SW
20260715.18	0.30	S	2.6	3	SW
20260715.21	0.32	S	2.5	4	W
20260716.00	0.33	S	2.3	4	NW
20260716.03	0.31	S	2.3	4	N
20260716.06	0.28	S	2.3	2	E
20260716.09	0.26	S	2.3	4	SW
20260716.12	0.29	S	2.1	6	W
20260716.15	0.30	S	2.1	4	SW
20260716.18	0.33	SW	2.3	2	SE
20260716.21	0.39	SW	2.7	3	S
20260717.00	0.36	SW	2.8	5	E
20260717.03	0.34	SW	2.8	8	W
20260717.06	0.52	S	2.8	11	W
20260717.09	0.73	S	3.1	8	SW
20260717.12	0.75	SW	3.3	7	E
20260717.15	0.74	SW	3.3	10	SE
20260717.18	0.90	W	3.3	12	SE
20260717.21	0.97	W	3.5	8	SE
20260718.00	0.78	W	3.6	4	W
20260718.03	0.63	W	3.8	2	W
20260718.06	0.54	W	3.9	1	N
20260718.09	0.51	W	3.9	1	S
20260718.12	0.52	SW	3.7	2	SE



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260713.12	0.25	SE	2.2	2	W
20260713.15	0.37	SE	2.8	1	SW
20260713.18	0.41	SE	3.1	0	E
20260713.21	0.40	SE	3.3	2	SE
20260714.00	0.39	S	3.4	4	E
20260714.03	0.39	S	3.4	4	S
20260714.06	0.39	S	3.1	3	SW
20260714.09	0.39	S	3.0	2	N
20260714.12	0.37	S	3.0	2	N
20260714.15	0.34	S	3.0	1	N
20260714.18	0.34	S	3.0	3	SW
20260714.21	0.34	SW	2.9	2	W
20260715.00	0.32	SW	3.0	2	NW
20260715.03	0.30	SW	3.0	3	NW
20260715.06	0.31	SW	2.6	4	NW
20260715.09	0.32	S	2.5	3	N
20260715.12	0.29	S	2.6	2	SW
20260715.15	0.27	S	2.8	2	SW
20260715.18	0.27	S	2.6	2	S
20260715.21	0.28	S	2.3	2	SW
20260716.00	0.27	S	2.2	3	NW
20260716.03	0.25	S	2.1	2	N
20260716.06	0.25	SW	2.1	4	S
20260716.09	0.26	SW	2.0	5	S
20260716.12	0.33	W	2.0	6	S
20260716.15	0.37	W	2.2	5	E
20260716.18	0.45	W	2.5	2	SE
20260716.21	0.55	W	3.0	5	SE
20260717.00	0.57	W	3.0	5	E
20260717.03	0.66	W	3.1	7	SW
20260717.06	0.79	SW	3.3	10	W
20260717.09	0.79	SW	3.6	9	SW
20260717.12	1.05	SW	3.8	9	E
20260717.15	0.90	W	3.6	8	SE
20260717.18	0.78	W	3.4	7	SE
20260717.21	0.66	W	3.4	4	SE
20260718.00	0.58	W	3.6	2	NW
20260718.03	0.54	W	3.9	5	NW
20260718.06	0.57	W	3.7	7	NW
20260718.09	0.66	SW	3.5	3	NW
20260718.12	0.67	SW	3.6	4	SE

**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: Zhagparova N.N.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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