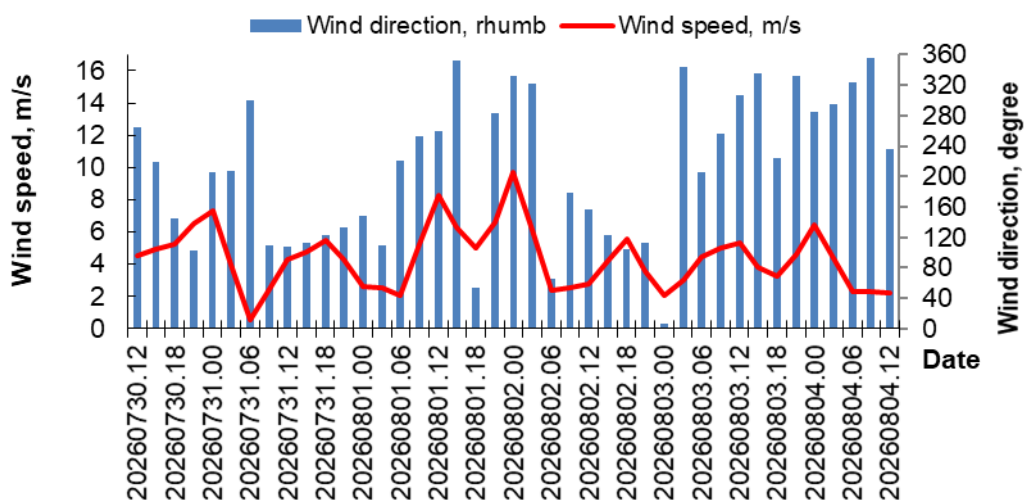




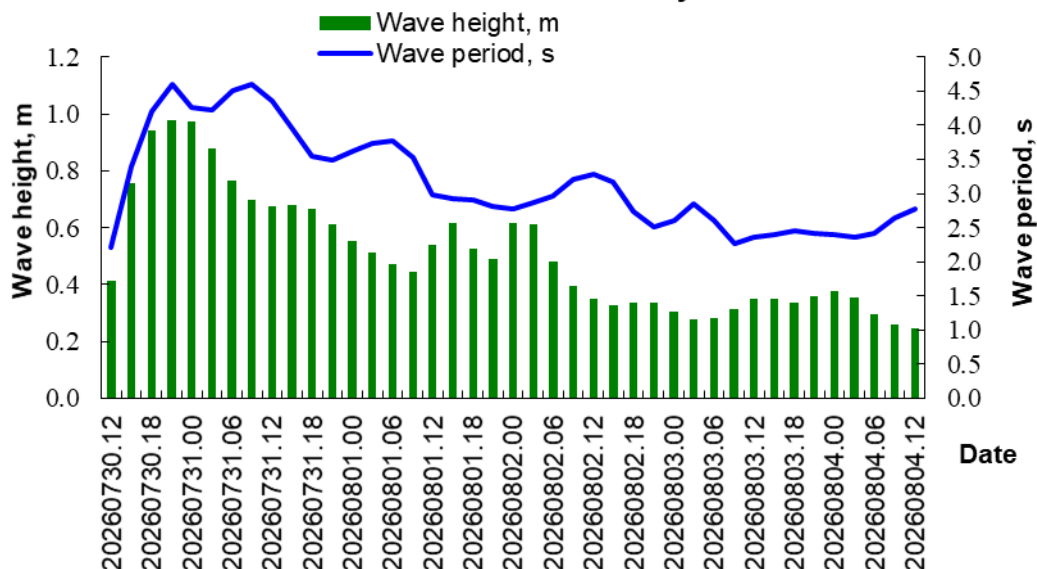
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 30 – August 04, 2026.**

Wind condition in the Kulaly

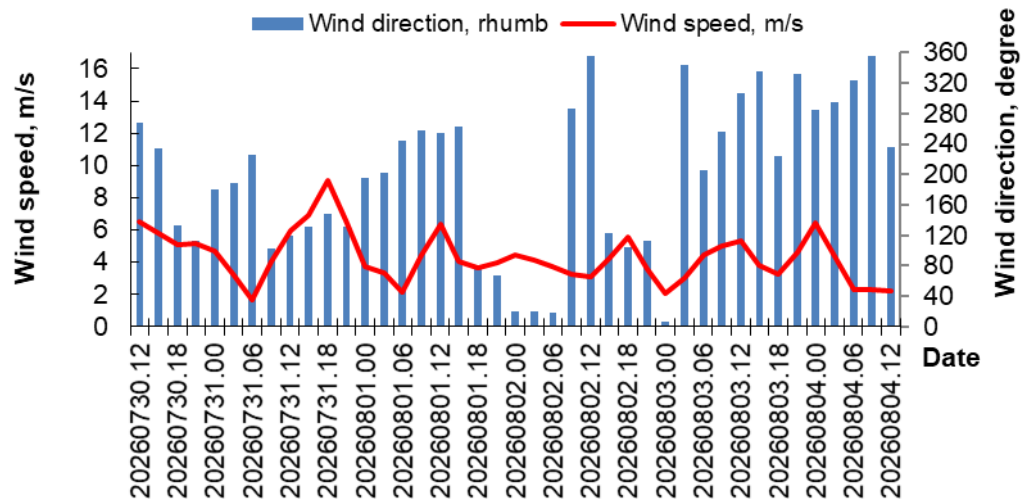


Wave condition in the Kulaly

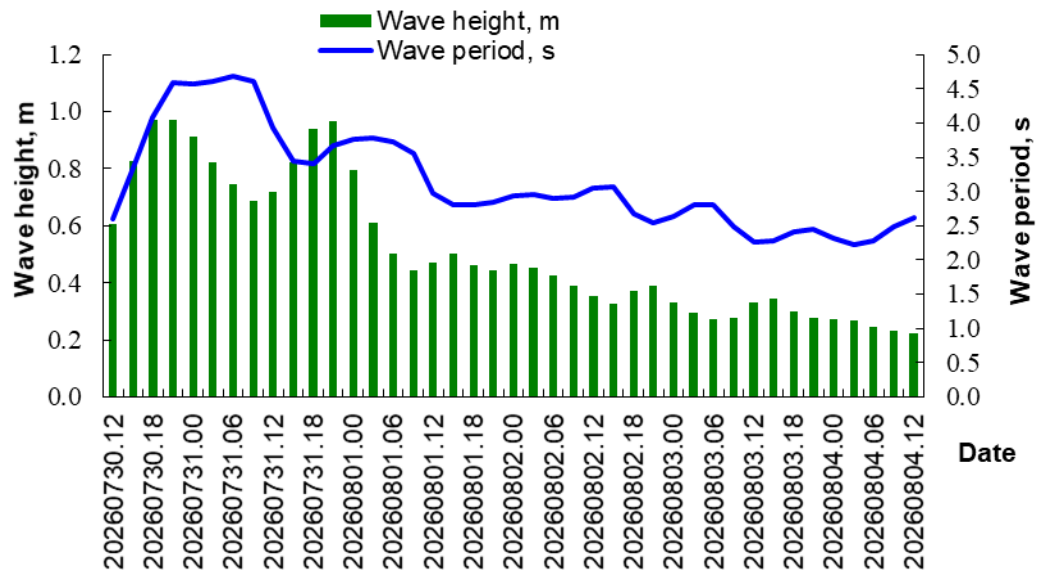


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260730.12	0.41	S	2.2	5	W
20260730.15	0.76	S	3.4	5	SW
20260730.18	0.94	S	4.2	5	SE
20260730.21	0.98	S	4.6	6	E
20260731.00	0.98	S	4.3	7	SW
20260731.03	0.88	S	4.2	4	SW
20260731.06	0.77	S	4.5	1	NW
20260731.09	0.70	S	4.6	2	E
20260731.12	0.68	S	4.4	4	E
20260731.15	0.68	S	3.9	5	SE
20260731.18	0.67	S	3.5	5	SE
20260731.21	0.61	S	3.5	4	SE
20260801.00	0.55	S	3.6	3	SE
20260801.03	0.51	SW	3.7	3	E
20260801.06	0.47	SW	3.8	2	SW
20260801.09	0.44	SW	3.5	5	W
20260801.12	0.54	SW	3.0	8	W
20260801.15	0.61	S	2.9	6	N
20260801.18	0.53	S	2.9	5	NE
20260801.21	0.49	SW	2.8	7	W
20260802.00	0.62	S	2.8	10	NW
20260802.03	0.61	S	2.9	6	NW
20260802.06	0.48	S	3.0	2	NE
20260802.09	0.40	SW	3.2	3	S
20260802.12	0.35	SW	3.3	3	SE
20260802.15	0.33	SW	3.2	4	SE
20260802.18	0.34	W	2.7	6	E
20260802.21	0.34	W	2.5	4	SE
20260803.00	0.31	W	2.6	2	N
20260803.03	0.28	SW	2.8	3	N
20260803.06	0.28	SW	2.6	4	SW
20260803.09	0.31	SW	2.3	5	W
20260803.12	0.35	S	2.4	5	NW
20260803.15	0.35	S	2.4	4	NW
20260803.18	0.34	S	2.4	3	SW
20260803.21	0.36	SW	2.4	5	NW
20260804.00	0.38	S	2.4	6	W
20260804.03	0.35	SE	2.4	4	NW
20260804.06	0.30	SE	2.4	2	NW
20260804.09	0.26	S	2.6	2	N
20260804.12	0.25	S	2.8	2	SW

Wind condition in the Fort-Shevchenko

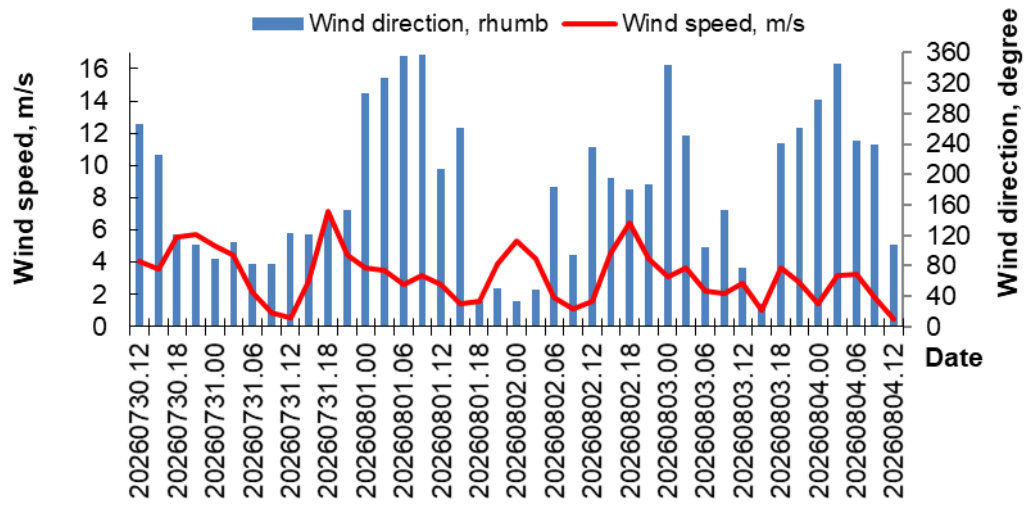


Wave condition in the Fort-Shevchenko

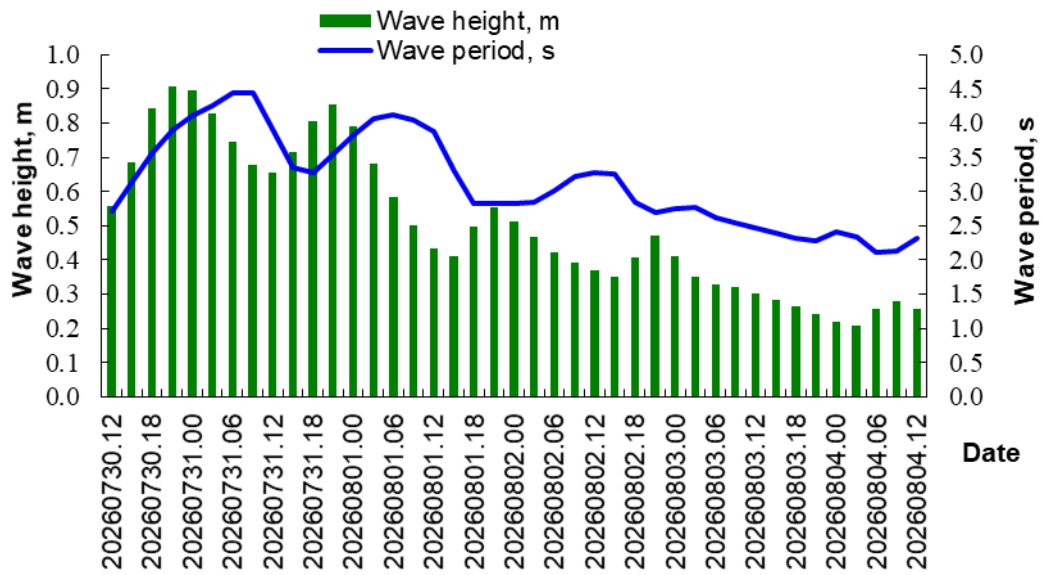


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260730.12	0.61	S	2.6	7	W
20260730.15	0.83	S	3.4	6	SW
20260730.18	0.97	S	4.1	5	SE
20260730.21	0.97	S	4.6	5	SE
20260731.00	0.91	S	4.6	5	S
20260731.03	0.82	S	4.6	3	S
20260731.06	0.74	S	4.7	2	SW
20260731.09	0.69	S	4.6	4	E
20260731.12	0.72	S	3.9	6	SE
20260731.15	0.82	SW	3.4	7	SE
20260731.18	0.94	NW	3.4	9	SE
20260731.21	0.97	NW	3.7	7	SE
20260801.00	0.79	NW	3.8	4	S
20260801.03	0.61	W	3.8	3	SW
20260801.06	0.50	W	3.7	2	SW
20260801.09	0.44	SW	3.6	4	W
20260801.12	0.47	SW	3.0	6	W
20260801.15	0.50	SW	2.8	4	W
20260801.18	0.46	SW	2.8	4	E
20260801.21	0.44	SW	2.8	4	NE
20260802.00	0.47	SW	2.9	4	N
20260802.03	0.45	SW	3.0	4	N
20260802.06	0.43	SW	2.9	4	N
20260802.09	0.39	SW	2.9	3	W
20260802.12	0.35	SW	3.0	3	N
20260802.15	0.33	SW	3.1	4	SE
20260802.18	0.37	SW	2.7	6	E
20260802.21	0.39	W	2.5	4	SE
20260803.00	0.33	SW	2.6	2	N
20260803.03	0.29	SW	2.8	3	N
20260803.06	0.27	SW	2.8	4	SW
20260803.09	0.28	W	2.5	5	W
20260803.12	0.33	NE	2.3	5	NW
20260803.15	0.34	NE	2.3	4	NW
20260803.18	0.30	NE	2.4	3	SW
20260803.21	0.28	NW	2.5	5	NW
20260804.00	0.27	NW	2.3	6	W
20260804.03	0.27	N	2.2	4	NW
20260804.06	0.25	NW	2.3	2	NW
20260804.09	0.23	SW	2.5	2	N
20260804.12	0.22	SW	2.6	2	SW

Wind condition in the Aktau

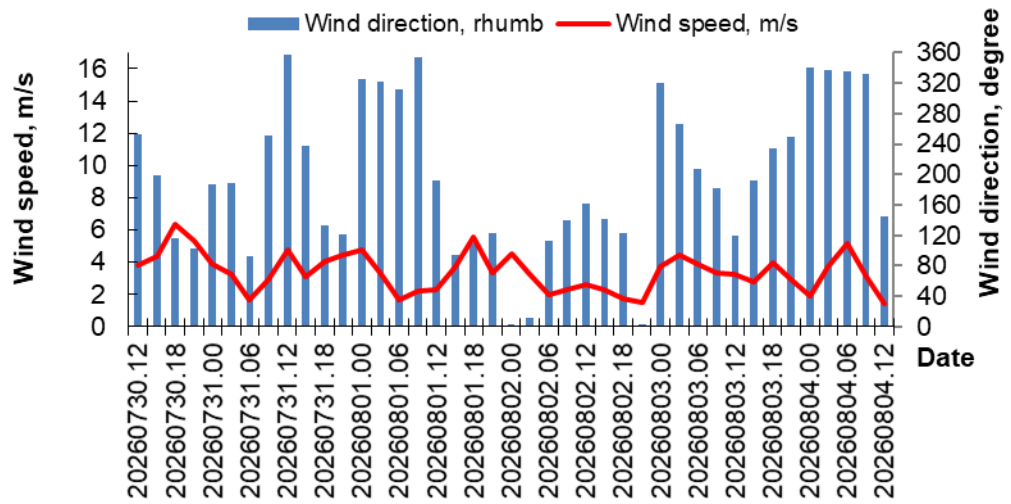


Wave condition in the Aktau

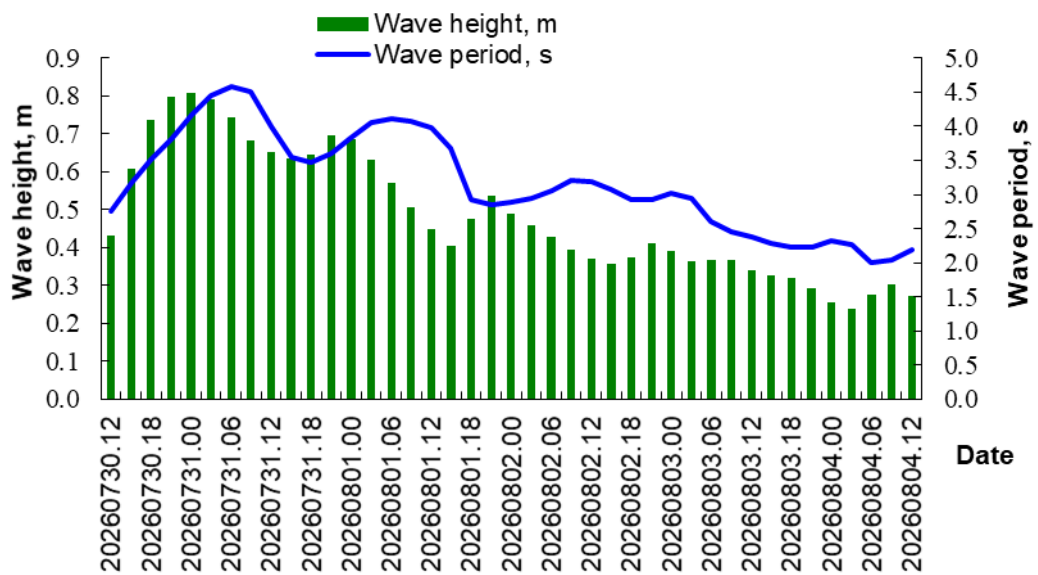


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260730.12	0.56	S	2.7	4	W
20260730.15	0.69	S	3.1	4	SW
20260730.18	0.84	S	3.6	6	SE
20260730.21	0.91	SW	3.9	6	E
20260731.00	0.90	SW	4.1	5	E
20260731.03	0.83	S	4.3	4	E
20260731.06	0.75	S	4.4	2	E
20260731.09	0.68	S	4.4	1	E
20260731.12	0.66	S	3.9	1	SE
20260731.15	0.71	SW	3.3	3	SE
20260731.18	0.81	W	3.3	7	SE
20260731.21	0.86	W	3.5	4	SE
20260801.00	0.79	NW	3.8	4	NW
20260801.03	0.68	NW	4.1	3	NW
20260801.06	0.58	NW	4.1	3	N
20260801.09	0.50	W	4.0	3	N
20260801.12	0.43	W	3.9	3	SW
20260801.15	0.41	W	3.3	1	W
20260801.18	0.50	W	2.8	2	NE
20260801.21	0.55	NW	2.8	4	NE
20260802.00	0.51	NW	2.8	5	NE
20260802.03	0.47	NW	2.8	4	NE
20260802.06	0.42	SW	3.0	2	S
20260802.09	0.39	SW	3.2	1	E
20260802.12	0.37	SW	3.3	2	SW
20260802.15	0.35	SW	3.3	5	S
20260802.18	0.41	SW	2.8	6	S
20260802.21	0.47	SW	2.7	4	S
20260803.00	0.41	SW	2.7	3	N
20260803.03	0.35	SW	2.8	4	W
20260803.06	0.33	SW	2.6	2	E
20260803.09	0.32	SW	2.5	2	SE
20260803.12	0.30	W	2.5	3	E
20260803.15	0.28	W	2.4	1	NE
20260803.18	0.26	W	2.3	4	SW
20260803.21	0.24	W	2.3	3	W
20260804.00	0.22	W	2.4	1	NW
20260804.03	0.21	SW	2.3	3	N
20260804.06	0.26	SW	2.1	3	SW
20260804.09	0.28	SW	2.1	2	SW
20260804.12	0.26	SW	2.3	0	E

Wind condition in the Peschanyi

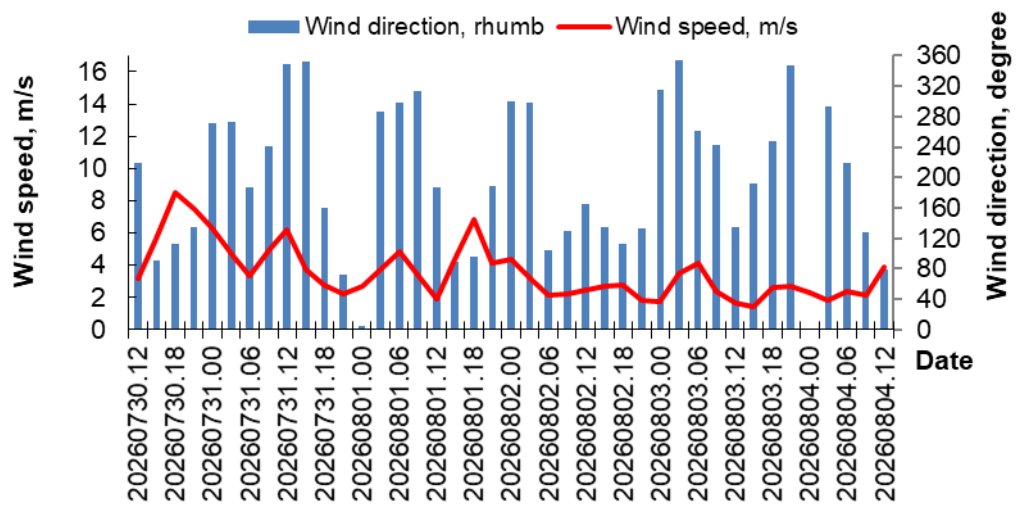


Wave condition in the Peschanyi

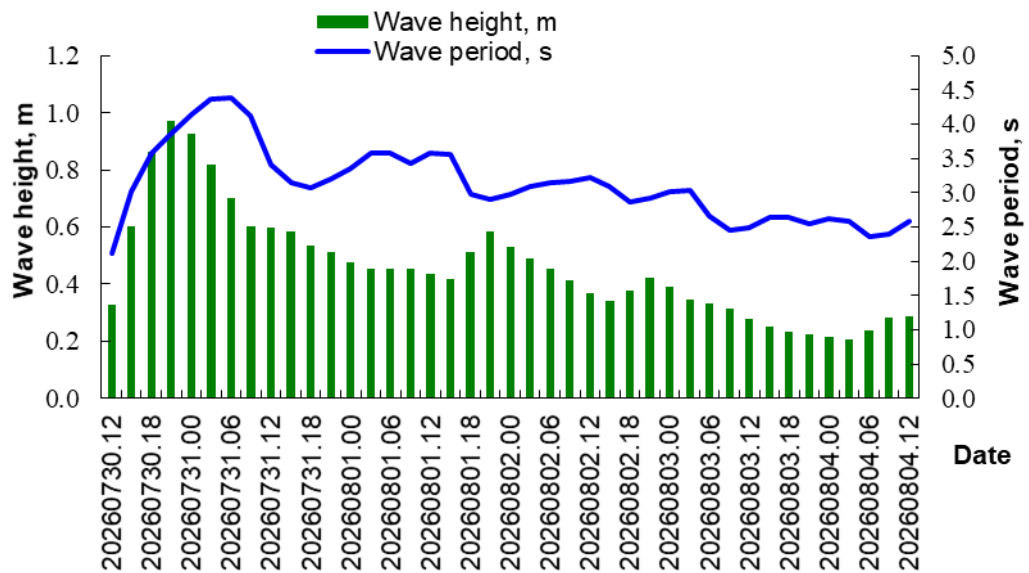


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260730.12	0.43	S	2.7	4	W
20260730.15	0.61	S	3.2	4	S
20260730.18	0.74	S	3.5	6	SE
20260730.21	0.80	S	3.8	5	E
20260731.00	0.81	S	4.2	4	S
20260731.03	0.79	S	4.4	3	S
20260731.06	0.74	S	4.6	2	E
20260731.09	0.68	S	4.5	3	W
20260731.12	0.65	S	4.0	5	N
20260731.15	0.64	S	3.6	3	SW
20260731.18	0.65	SW	3.5	4	SE
20260731.21	0.70	W	3.6	4	SE
20260801.00	0.69	W	3.8	5	NW
20260801.03	0.63	W	4.1	3	NW
20260801.06	0.57	W	4.1	2	NW
20260801.09	0.51	W	4.1	2	N
20260801.12	0.45	W	4.0	2	S
20260801.15	0.40	W	3.7	4	E
20260801.18	0.48	W	2.9	6	E
20260801.21	0.54	W	2.8	3	SE
20260802.00	0.49	W	2.9	4	N
20260802.03	0.46	W	2.9	3	N
20260802.06	0.43	W	3.1	2	SE
20260802.09	0.39	SW	3.2	2	SE
20260802.12	0.37	SW	3.2	3	S
20260802.15	0.36	SW	3.1	2	SE
20260802.18	0.38	SW	2.9	2	SE
20260802.21	0.41	SW	2.9	1	N
20260803.00	0.39	SW	3.0	4	NW
20260803.03	0.36	SW	2.9	4	W
20260803.06	0.37	SW	2.6	4	SW
20260803.09	0.37	SW	2.5	3	S
20260803.12	0.34	W	2.4	3	SE
20260803.15	0.33	W	2.3	3	S
20260803.18	0.32	W	2.2	4	SW
20260803.21	0.29	SW	2.2	3	W
20260804.00	0.26	SW	2.3	2	N
20260804.03	0.24	SW	2.3	4	NW
20260804.06	0.28	S	2.0	5	NW
20260804.09	0.30	S	2.0	3	NW
20260804.12	0.27	S	2.2	1	SE

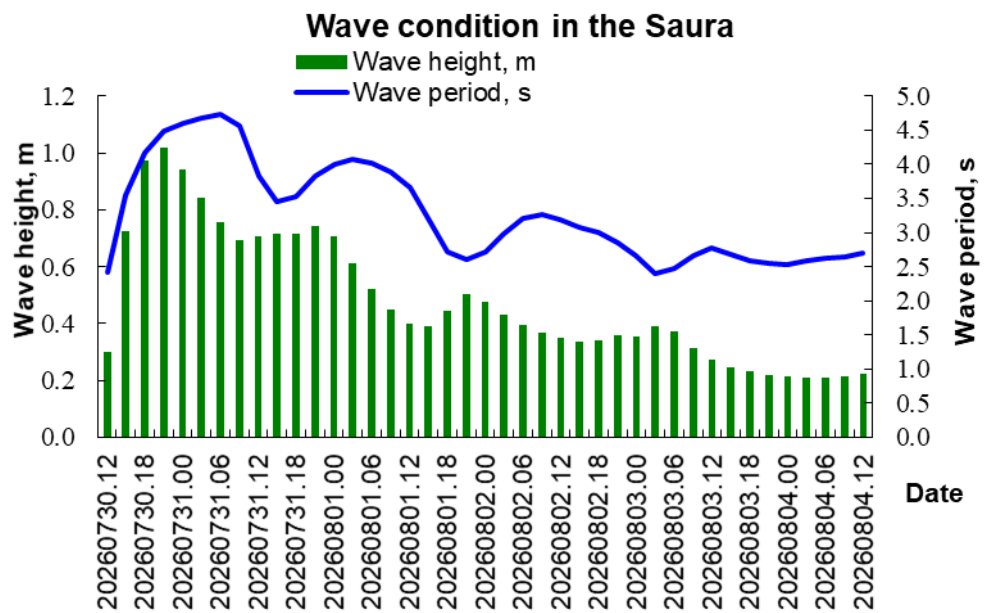
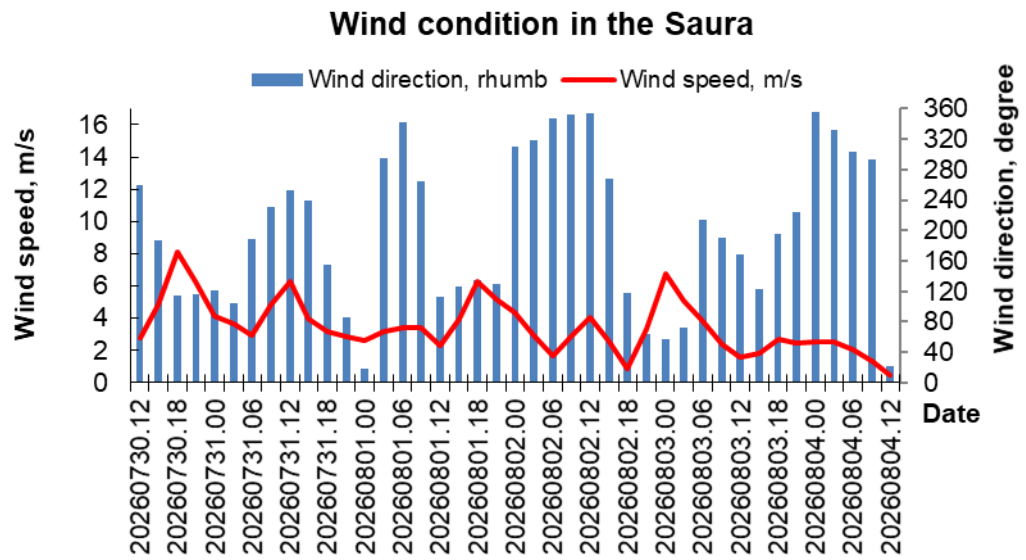
Wind condition in the Fetisovo



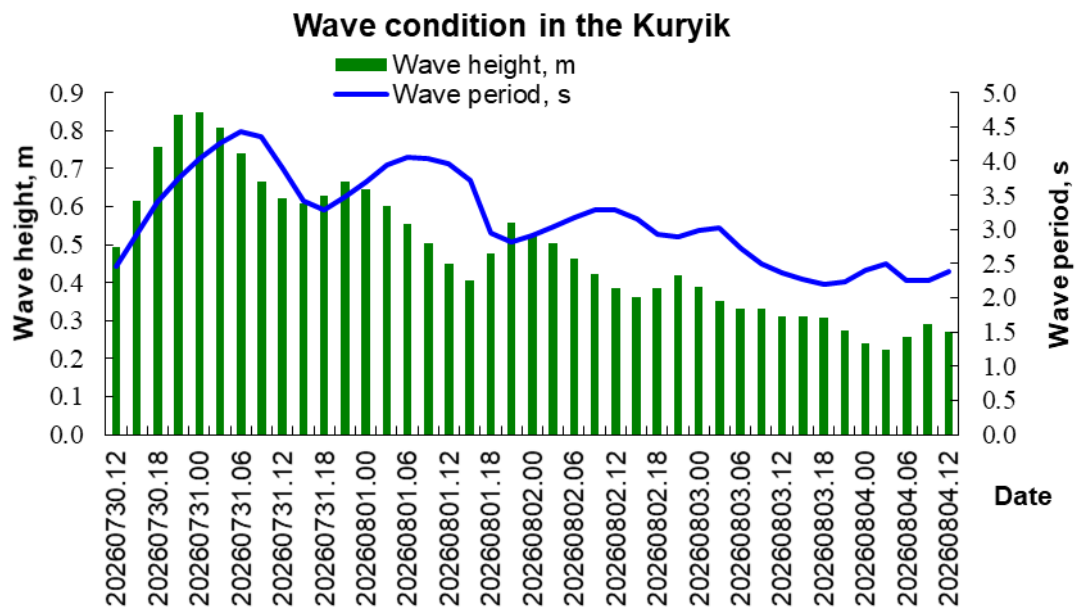
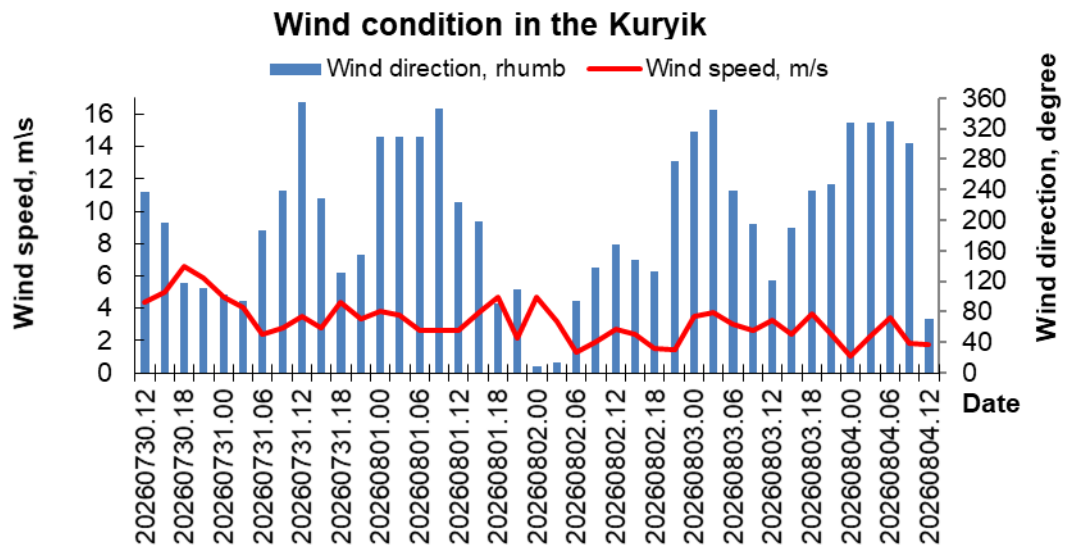
Wave condition in the Fetisovo



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260730.12	0.33	SW	2.1	3	SW
20260730.15	0.60	S	3.0	6	E
20260730.18	0.86	SW	3.6	8	SE
20260730.21	0.97	SW	3.9	7	SE
20260731.00	0.93	SW	4.1	6	W
20260731.03	0.82	S	4.4	5	W
20260731.06	0.70	S	4.4	3	S
20260731.09	0.60	S	4.1	5	SW
20260731.12	0.60	S	3.4	6	N
20260731.15	0.58	S	3.1	4	N
20260731.18	0.53	SW	3.1	3	S
20260731.21	0.51	W	3.2	2	E
20260801.00	0.48	W	3.4	3	N
20260801.03	0.45	W	3.6	4	W
20260801.06	0.45	NW	3.6	5	NW
20260801.09	0.45	NW	3.4	3	NW
20260801.12	0.43	NW	3.6	2	S
20260801.15	0.42	NW	3.6	4	E
20260801.18	0.51	W	3.0	7	E
20260801.21	0.58	W	2.9	4	S
20260802.00	0.53	W	3.0	4	NW
20260802.03	0.49	W	3.1	3	NW
20260802.06	0.46	SW	3.1	2	E
20260802.09	0.41	SW	3.2	2	SE
20260802.12	0.37	SW	3.2	2	S
20260802.15	0.34	SW	3.1	3	SE
20260802.18	0.38	SW	2.9	3	SE
20260802.21	0.42	SW	2.9	2	SE
20260803.00	0.39	SW	3.0	2	NW
20260803.03	0.34	SW	3.0	4	N
20260803.06	0.33	SW	2.7	4	W
20260803.09	0.31	SW	2.4	2	SW
20260803.12	0.28	SW	2.5	2	SE
20260803.15	0.25	W	2.6	1	S
20260803.18	0.23	W	2.6	3	SW
20260803.21	0.22	W	2.5	3	N
20260804.00	0.21	W	2.6	2	N
20260804.03	0.21	W	2.6	2	NW
20260804.06	0.24	W	2.4	2	SW
20260804.09	0.28	SW	2.4	2	SE
20260804.12	0.29	SW	2.6	4	E



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260730.12	0.30	S	2.4	3	W
20260730.15	0.72	S	3.5	5	S
20260730.18	0.97	S	4.2	8	SE
20260730.21	1.02	S	4.5	6	SE
20260731.00	0.94	S	4.6	4	SE
20260731.03	0.84	S	4.7	4	E
20260731.06	0.75	S	4.7	3	S
20260731.09	0.69	S	4.6	5	SW
20260731.12	0.71	S	3.8	6	W
20260731.15	0.72	S	3.5	4	SW
20260731.18	0.71	SW	3.5	3	SE
20260731.21	0.74	W	3.8	3	E
20260801.00	0.71	NW	4.0	3	N
20260801.03	0.61	NW	4.1	3	NW
20260801.06	0.52	W	4.0	3	N
20260801.09	0.45	W	3.9	3	W
20260801.12	0.40	SW	3.7	2	E
20260801.15	0.39	SW	3.2	4	SE
20260801.18	0.44	W	2.7	6	SE
20260801.21	0.50	W	2.6	5	SE
20260802.00	0.48	W	2.7	4	NW
20260802.03	0.43	SW	3.0	3	NW
20260802.06	0.40	SW	3.2	2	N
20260802.09	0.37	SW	3.3	3	N
20260802.12	0.35	SW	3.2	4	N
20260802.15	0.33	SW	3.1	3	W
20260802.18	0.34	SW	3.0	1	SE
20260802.21	0.36	SW	2.8	3	NE
20260803.00	0.36	W	2.7	7	NE
20260803.03	0.39	N	2.4	5	E
20260803.06	0.37	N	2.5	4	SW
20260803.09	0.31	NW	2.7	2	S
20260803.12	0.27	NW	2.8	2	S
20260803.15	0.25	NW	2.7	2	SE
20260803.18	0.23	NW	2.6	3	S
20260803.21	0.22	NW	2.6	2	SW
20260804.00	0.21	NW	2.5	3	N
20260804.03	0.21	NW	2.6	3	NW
20260804.06	0.21	W	2.6	2	NW
20260804.09	0.21	W	2.7	1	NW
20260804.12	0.22	SW	2.7	0	N



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260730.12	0.50	S	2.5	4	SW
20260730.15	0.62	S	2.9	5	S
20260730.18	0.76	S	3.4	7	SE
20260730.21	0.84	SW	3.8	6	E
20260731.00	0.85	SW	4.0	5	E
20260731.03	0.81	S	4.3	4	E
20260731.06	0.74	S	4.4	2	S
20260731.09	0.67	S	4.4	3	SW
20260731.12	0.62	S	3.9	3	N
20260731.15	0.61	S	3.4	3	SW
20260731.18	0.63	SW	3.3	4	SE
20260731.21	0.67	W	3.5	3	SE
20260801.00	0.65	W	3.7	4	NW
20260801.03	0.60	W	3.9	4	NW
20260801.06	0.55	NW	4.1	3	NW
20260801.09	0.50	W	4.0	3	N
20260801.12	0.45	W	4.0	3	SW
20260801.15	0.41	W	3.7	4	S
20260801.18	0.48	W	3.0	5	E
20260801.21	0.56	W	2.8	2	E
20260802.00	0.53	W	2.9	5	N
20260802.03	0.51	NW	3.0	3	N
20260802.06	0.46	SW	3.2	1	E
20260802.09	0.42	SW	3.3	2	SE
20260802.12	0.39	SW	3.3	3	S
20260802.15	0.36	SW	3.2	2	SE
20260802.18	0.38	SW	2.9	2	SE
20260802.21	0.42	SW	2.9	1	W
20260803.00	0.39	SW	3.0	3	NW
20260803.03	0.35	SW	3.0	4	N
20260803.06	0.33	SW	2.7	3	SW
20260803.09	0.33	SW	2.5	3	S
20260803.12	0.31	SW	2.4	3	SE
20260803.15	0.31	W	2.3	2	S
20260803.18	0.31	W	2.2	4	SW
20260803.21	0.28	SW	2.2	2	W
20260804.00	0.24	SW	2.4	1	NW
20260804.03	0.22	W	2.5	2	NW
20260804.06	0.26	SW	2.3	3	NW
20260804.09	0.29	SW	2.3	2	NW
20260804.12	0.27	SW	2.4	2	E

**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.

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