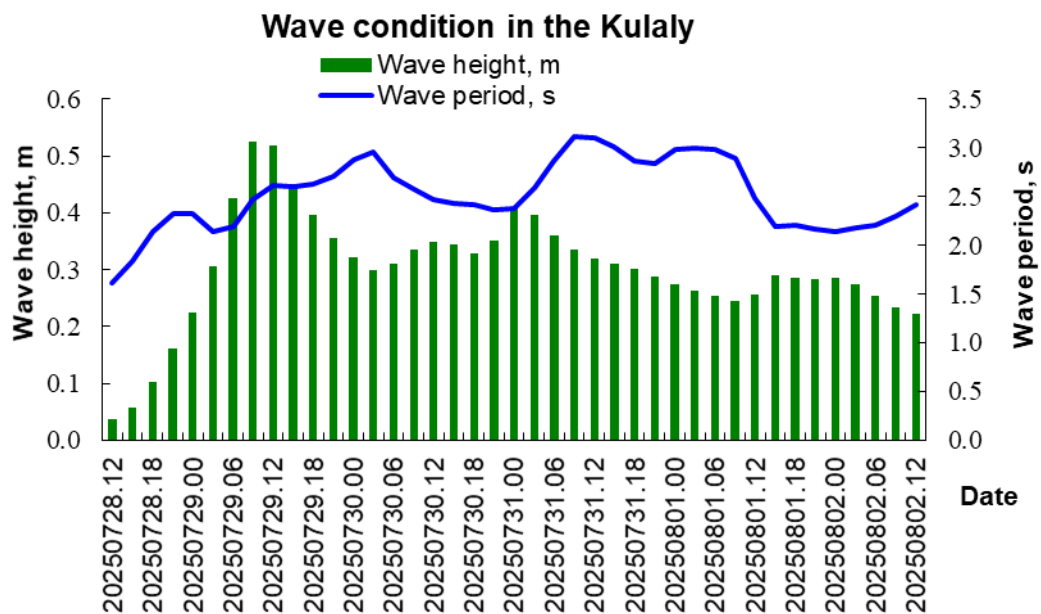
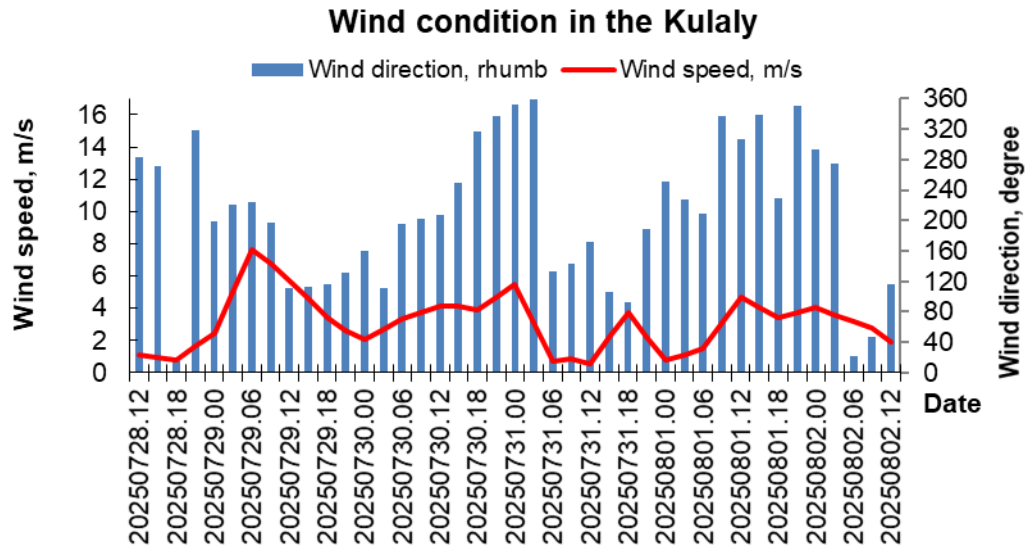




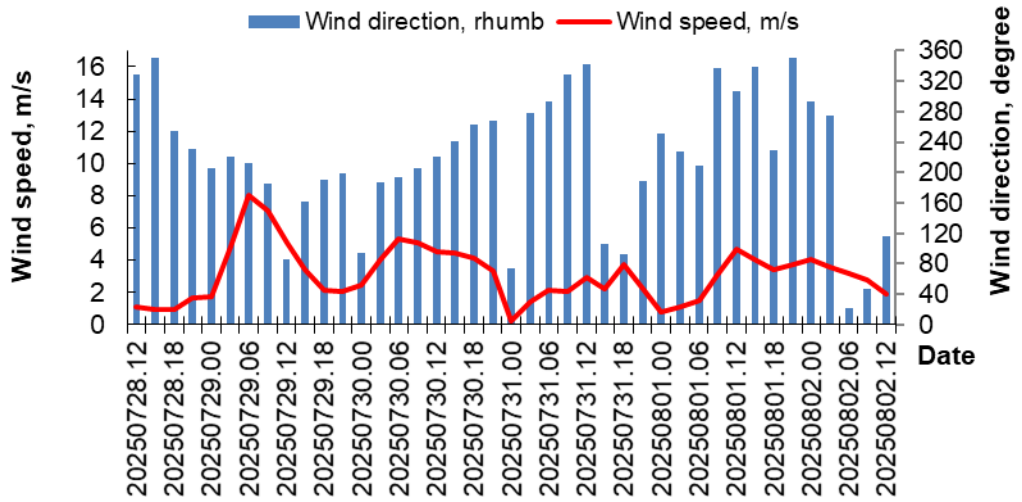
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES  
OF THE REPUBLIC OF KAZAKHSTAN  
RSE «KAZHYDROMET»**

**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 28 – August 02, 2025.**

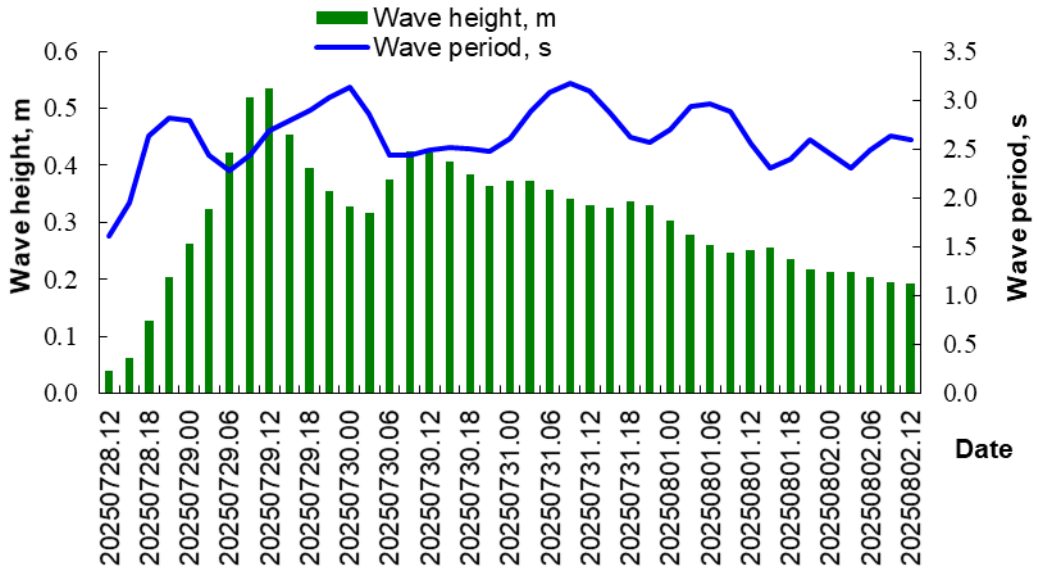


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250728.12	0.04	E	1.6	1	W
20250728.15	0.06	NE	1.8	1	W
20250728.18	0.10	N	2.1	1	N
20250728.21	0.16	N	2.3	2	NW
20250729.00	0.22	N	2.3	2	S
20250729.03	0.31	W	2.1	5	SW
20250729.06	0.43	SW	2.2	8	SW
20250729.09	0.53	SW	2.5	7	S
20250729.12	0.52	W	2.6	6	E
20250729.15	0.45	W	2.6	5	E
20250729.18	0.40	W	2.6	3	SE
20250729.21	0.36	W	2.7	3	SE
20250730.00	0.32	SW	2.9	2	S
20250730.03	0.30	SW	3.0	3	E
20250730.06	0.31	SW	2.7	3	S
20250730.09	0.34	SW	2.6	4	S
20250730.12	0.35	SW	2.5	4	SW
20250730.15	0.34	SW	2.4	4	W
20250730.18	0.33	SW	2.4	4	NW
20250730.21	0.35	SW	2.4	5	N
20250731.00	0.41	SW	2.4	6	N
20250731.03	0.40	SW	2.6	3	N
20250731.06	0.36	SW	2.9	1	SE
20250731.09	0.34	SW	3.1	1	SE
20250731.12	0.32	SW	3.1	1	S
20250731.15	0.31	SW	3.0	2	E
20250731.18	0.30	SW	2.9	4	E
20250731.21	0.29	SW	2.8	2	S
20250801.00	0.27	SW	3.0	1	W
20250801.03	0.26	S	3.0	1	SW
20250801.06	0.25	S	3.0	2	SW
20250801.09	0.25	S	2.9	3	N
20250801.12	0.26	S	2.5	5	NW
20250801.15	0.29	S	2.2	4	N
20250801.18	0.29	S	2.2	3	SW
20250801.21	0.28	S	2.2	4	N
20250802.00	0.29	S	2.1	4	NW
20250802.03	0.27	S	2.2	4	W
20250802.06	0.25	S	2.2	3	N
20250802.09	0.23	S	2.3	3	NE
20250802.12	0.22	S	2.4	2	SE

### Wind condition in the Fort-Shevchenko

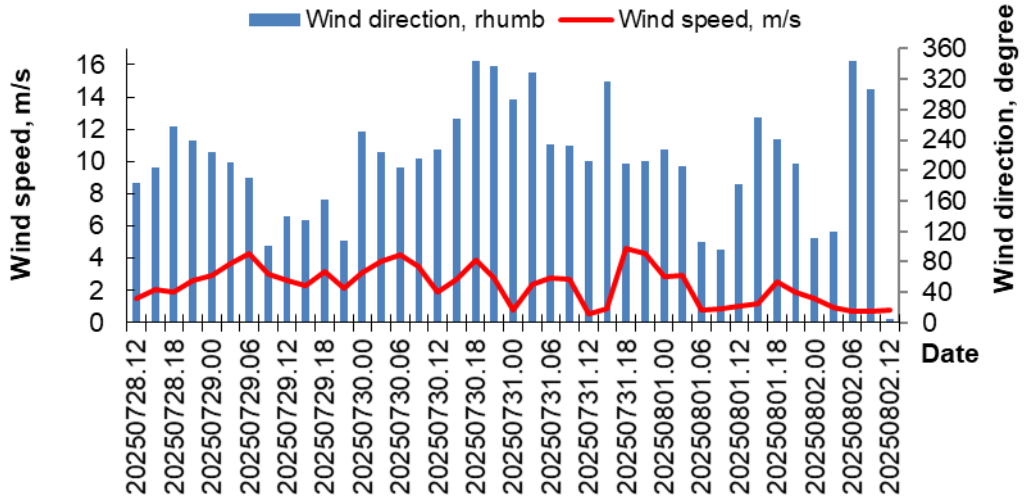


### Wave condition in the Fort-Shevchenko

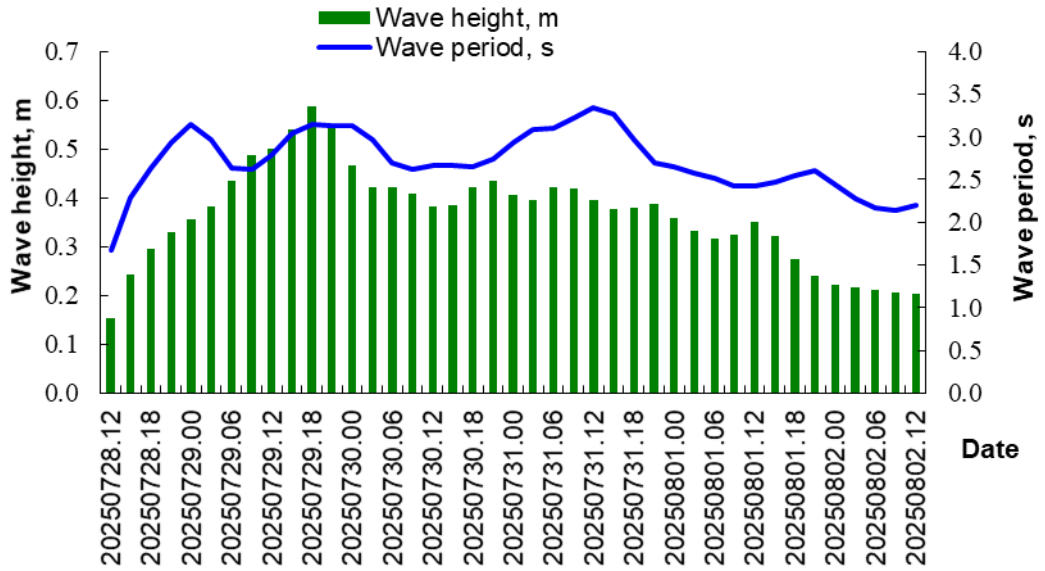


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250728.12	0.04	SE	1.6	1	NW
20250728.15	0.06	E	1.9	1	N
20250728.18	0.13	NE	2.6	1	W
20250728.21	0.20	NE	2.8	2	SW
20250729.00	0.26	NE	2.8	2	SW
20250729.03	0.32	NE	2.4	5	SW
20250729.06	0.42	SW	2.3	8	SW
20250729.09	0.52	W	2.4	7	S
20250729.12	0.53	W	2.7	5	E
20250729.15	0.45	W	2.8	3	S
20250729.18	0.39	W	2.9	2	S
20250729.21	0.36	W	3.0	2	S
20250730.00	0.33	W	3.1	3	E
20250730.03	0.32	W	2.9	4	S
20250730.06	0.37	W	2.4	5	S
20250730.09	0.43	SW	2.4	5	SW
20250730.12	0.42	SW	2.5	5	SW
20250730.15	0.41	SW	2.5	4	SW
20250730.18	0.38	SW	2.5	4	W
20250730.21	0.36	SW	2.5	3	W
20250731.00	0.37	SW	2.6	0	E
20250731.03	0.37	SW	2.9	1	W
20250731.06	0.36	SW	3.1	2	NW
20250731.09	0.34	SW	3.2	2	NW
20250731.12	0.33	SW	3.1	3	N
20250731.15	0.33	SW	2.9	2	E
20250731.18	0.34	SW	2.6	4	E
20250731.21	0.33	SW	2.6	2	S
20250801.00	0.30	SW	2.7	1	W
20250801.03	0.28	S	2.9	1	SW
20250801.06	0.26	S	3.0	2	SW
20250801.09	0.25	S	2.9	3	N
20250801.12	0.25	S	2.6	5	NW
20250801.15	0.26	S	2.3	4	N
20250801.18	0.23	S	2.4	3	SW
20250801.21	0.22	S	2.6	4	N
20250802.00	0.21	SW	2.4	4	NW
20250802.03	0.21	SW	2.3	4	W
20250802.06	0.20	SW	2.5	3	N
20250802.09	0.19	SW	2.6	3	NE
20250802.12	0.19	SW	2.6	2	SE

### Wind condition in the Aktau

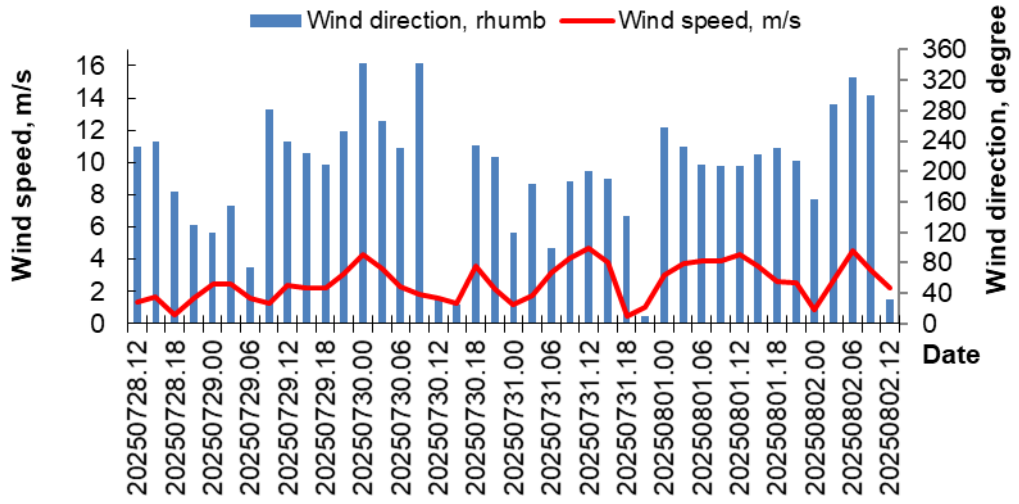


### Wave condition in the Aktau

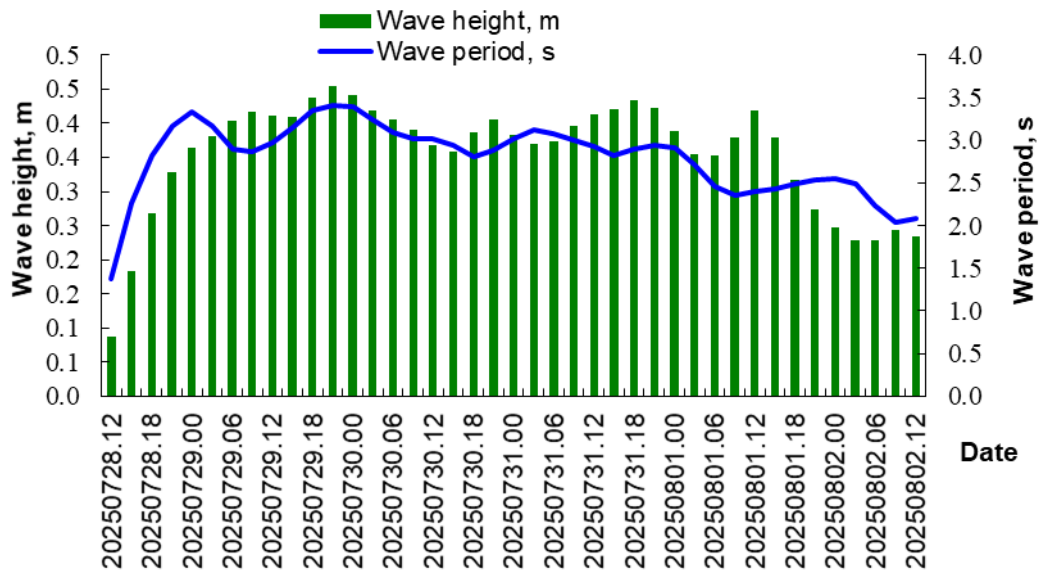


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250728.12	0.15	W	1.7	2	S
20250728.15	0.24	SW	2.3	2	SW
20250728.18	0.29	SW	2.6	2	W
20250728.21	0.33	NW	2.9	3	SW
20250729.00	0.36	N	3.1	3	SW
20250729.03	0.38	N	3.0	4	SW
20250729.06	0.43	NW	2.6	4	S
20250729.09	0.49	W	2.6	3	E
20250729.12	0.50	W	2.8	3	SE
20250729.15	0.54	W	3.0	2	SE
20250729.18	0.59	W	3.1	3	S
20250729.21	0.54	W	3.1	2	E
20250730.00	0.47	W	3.1	3	W
20250730.03	0.42	W	3.0	4	SW
20250730.06	0.42	W	2.7	4	SW
20250730.09	0.41	W	2.6	3	SW
20250730.12	0.38	W	2.7	2	SW
20250730.15	0.38	SW	2.7	3	W
20250730.18	0.42	SW	2.7	4	N
20250730.21	0.43	SW	2.7	3	NW
20250731.00	0.41	SW	2.9	1	W
20250731.03	0.40	SW	3.1	2	NW
20250731.06	0.42	S	3.1	3	SW
20250731.09	0.42	S	3.2	3	SW
20250731.12	0.39	S	3.3	1	SW
20250731.15	0.38	S	3.3	1	NW
20250731.18	0.38	SW	3.0	5	SW
20250731.21	0.39	SW	2.7	4	SW
20250801.00	0.36	SW	2.7	3	SW
20250801.03	0.33	SW	2.6	3	SW
20250801.06	0.32	SW	2.5	1	E
20250801.09	0.32	SW	2.4	1	E
20250801.12	0.35	SW	2.4	1	S
20250801.15	0.32	SW	2.5	1	W
20250801.18	0.27	SW	2.5	3	SW
20250801.21	0.24	SW	2.6	2	SW
20250802.00	0.22	SW	2.4	1	E
20250802.03	0.22	SW	2.3	1	SE
20250802.06	0.21	W	2.2	1	N
20250802.09	0.21	SW	2.1	1	NW
20250802.12	0.20	SW	2.2	1	N

### Wind condition in the Peschanyi



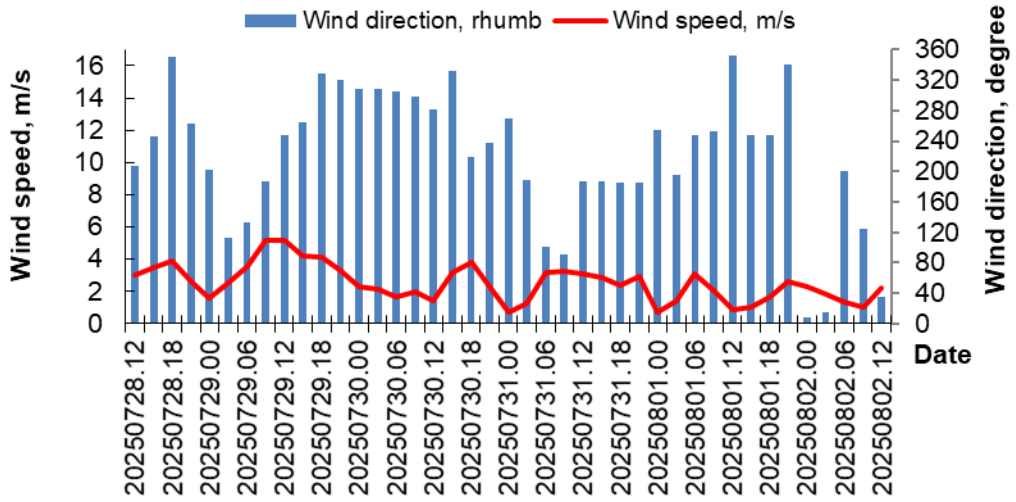
### Wave condition in the Peschanyi



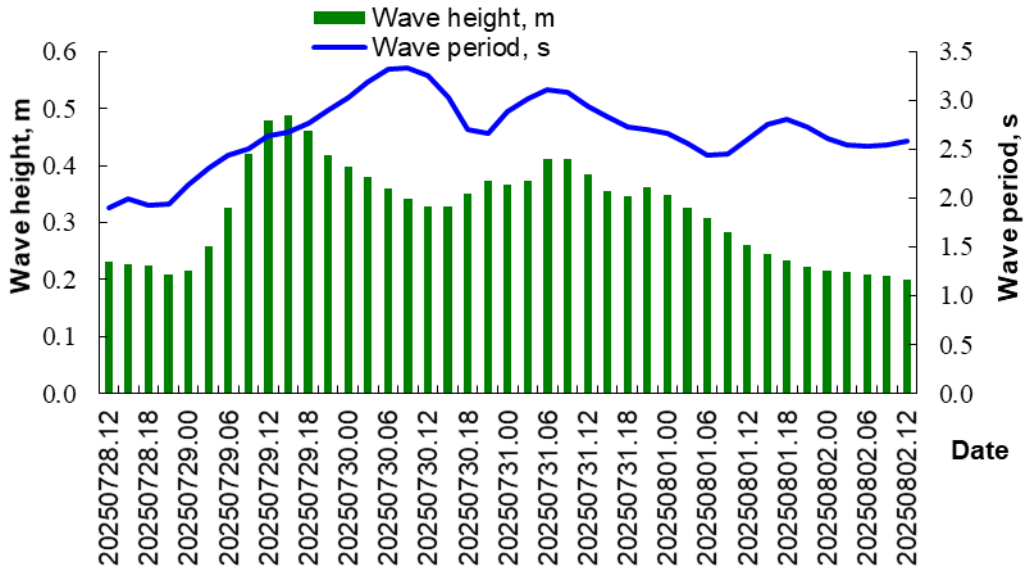
Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250728.12	0.09	W	1.4	1	SW
20250728.15	0.18	W	2.3	2	SW
20250728.18	0.27	W	2.8	1	S
20250728.21	0.33	NW	3.2	2	SE
20250729.00	0.36	N	3.3	3	SE
20250729.03	0.38	N	3.2	2	SE
20250729.06	0.40	NW	2.9	2	E
20250729.09	0.42	NW	2.9	1	W
20250729.12	0.41	NW	3.0	2	SW
20250729.15	0.41	W	3.1	2	SW
20250729.18	0.44	W	3.3	2	SW
20250729.21	0.45	W	3.4	3	W
20250730.00	0.44	W	3.4	4	N
20250730.03	0.42	W	3.2	3	W
20250730.06	0.41	W	3.1	2	SW
20250730.09	0.39	W	3.0	2	N
20250730.12	0.37	W	3.0	2	NE
20250730.15	0.36	W	2.9	1	NE
20250730.18	0.39	SW	2.8	4	SW
20250730.21	0.41	SW	2.9	2	SW
20250731.00	0.38	SW	3.0	1	SE
20250731.03	0.37	SW	3.1	2	S
20250731.06	0.37	SW	3.1	3	E
20250731.09	0.40	SW	3.0	4	S
20250731.12	0.41	SW	2.9	5	S
20250731.15	0.42	SW	2.8	4	S
20250731.18	0.43	SW	2.9	0	SE
20250731.21	0.42	SW	3.0	1	N
20250801.00	0.39	SW	2.9	3	W
20250801.03	0.36	SW	2.7	4	SW
20250801.06	0.35	SW	2.5	4	SW
20250801.09	0.38	SW	2.4	4	SW
20250801.12	0.42	SW	2.4	4	SW
20250801.15	0.38	SW	2.4	4	SW
20250801.18	0.32	SW	2.5	3	SW
20250801.21	0.27	SW	2.5	3	SW
20250802.00	0.25	SW	2.5	1	S
20250802.03	0.23	SW	2.5	3	W
20250802.06	0.23	SW	2.2	5	NW
20250802.09	0.24	S	2.0	3	NW
20250802.12	0.23	S	2.1	2	NE



### Wind condition in the Fetisovo

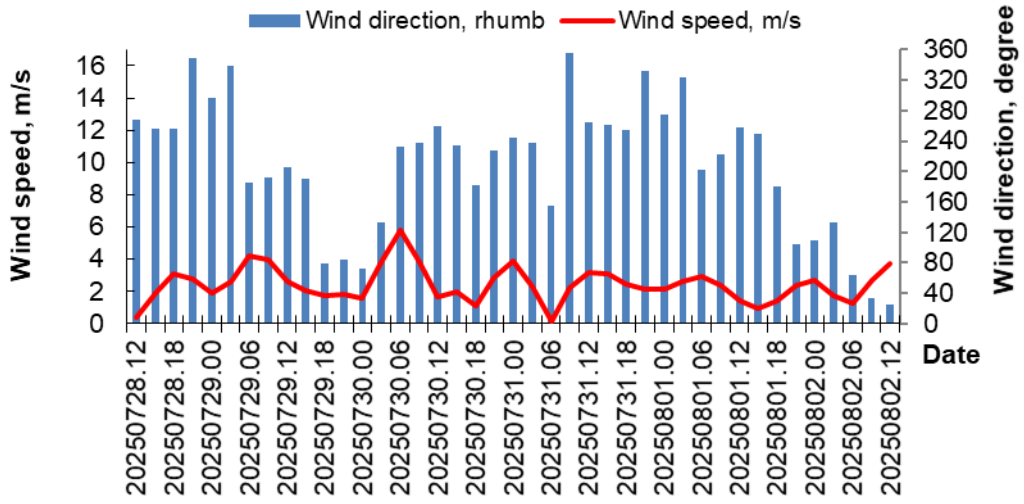


### Wave condition in the Fetisovo

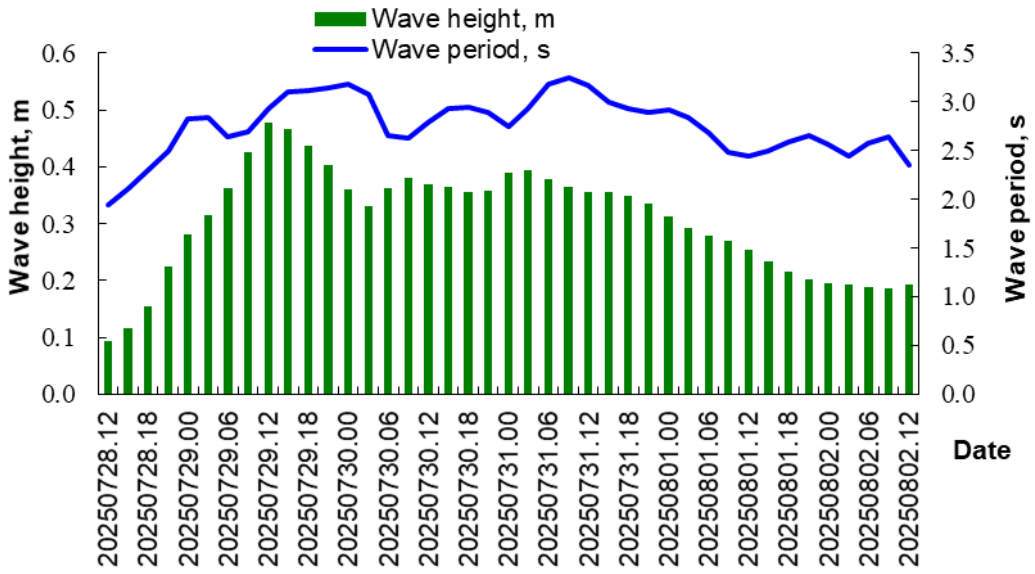


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250728.12	0.23	SW	1.9	3	SW
20250728.15	0.23	SW	2.0	4	SW
20250728.18	0.22	SW	1.9	4	N
20250728.21	0.21	SW	1.9	3	W
20250729.00	0.21	W	2.1	2	SW
20250729.03	0.26	W	2.3	3	SE
20250729.06	0.33	W	2.4	4	SE
20250729.09	0.42	W	2.5	5	S
20250729.12	0.48	W	2.6	5	W
20250729.15	0.49	W	2.7	4	W
20250729.18	0.46	W	2.8	4	NW
20250729.21	0.42	W	2.9	3	NW
20250730.00	0.40	W	3.0	2	NW
20250730.03	0.38	W	3.2	2	NW
20250730.06	0.36	W	3.3	2	NW
20250730.09	0.34	W	3.3	2	NW
20250730.12	0.33	W	3.2	1	W
20250730.15	0.33	W	3.0	3	NW
20250730.18	0.35	SW	2.7	4	SW
20250730.21	0.37	SW	2.7	2	SW
20250731.00	0.37	SW	2.9	1	W
20250731.03	0.37	SW	3.0	1	S
20250731.06	0.41	S	3.1	3	E
20250731.09	0.41	SW	3.1	3	E
20250731.12	0.38	SW	2.9	3	S
20250731.15	0.35	SW	2.8	3	S
20250731.18	0.35	SW	2.7	2	S
20250731.21	0.36	SW	2.7	3	S
20250801.00	0.35	SW	2.7	1	W
20250801.03	0.33	SW	2.6	1	S
20250801.06	0.31	SW	2.4	3	SW
20250801.09	0.28	SW	2.5	2	W
20250801.12	0.26	SW	2.6	1	N
20250801.15	0.25	SW	2.8	1	W
20250801.18	0.23	W	2.8	2	SW
20250801.21	0.22	W	2.7	3	N
20250802.00	0.22	SW	2.6	2	N
20250802.03	0.21	SW	2.5	2	N
20250802.06	0.21	SW	2.5	1	S
20250802.09	0.21	SW	2.5	1	SE
20250802.12	0.20	SW	2.6	2	NE

### Wind condition in the Saura

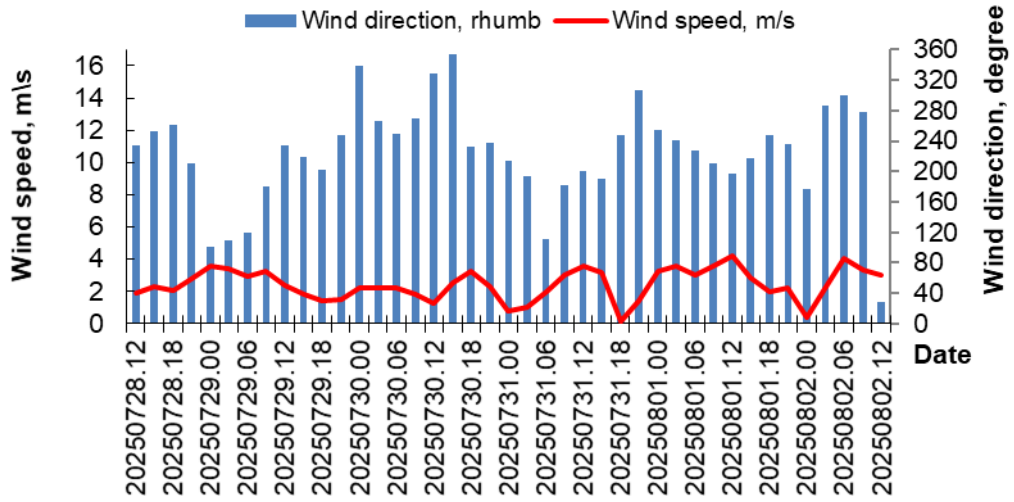


### Wave condition in the Saura

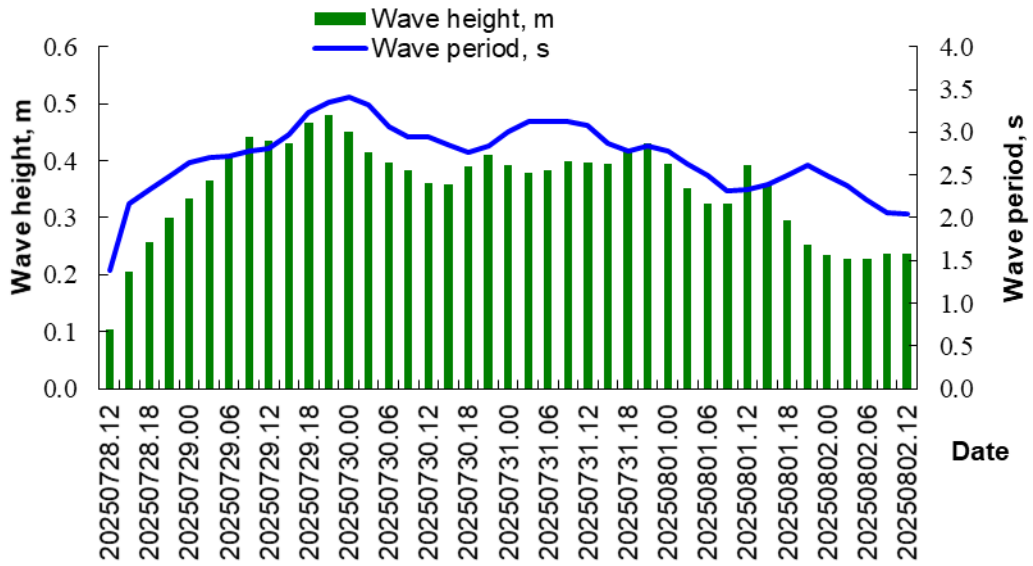


Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250728.12	0.09	S	1.9	0	W
20250728.15	0.12	S	2.1	2	W
20250728.18	0.15	E	2.3	3	W
20250728.21	0.22	NE	2.5	3	N
20250729.00	0.28	NE	2.8	2	NW
20250729.03	0.32	NE	2.8	3	N
20250729.06	0.36	N	2.6	4	S
20250729.09	0.43	W	2.7	4	S
20250729.12	0.48	W	2.9	3	SW
20250729.15	0.47	W	3.1	2	S
20250729.18	0.44	W	3.1	2	E
20250729.21	0.40	W	3.1	2	E
20250730.00	0.36	W	3.2	2	E
20250730.03	0.33	W	3.1	4	SE
20250730.06	0.36	W	2.7	6	SW
20250730.09	0.38	SW	2.6	4	SW
20250730.12	0.37	SW	2.8	2	W
20250730.15	0.36	SW	2.9	2	SW
20250730.18	0.36	SW	2.9	1	S
20250730.21	0.36	SW	2.9	3	SW
20250731.00	0.39	SW	2.8	4	SW
20250731.03	0.39	SW	2.9	2	SW
20250731.06	0.38	SW	3.2	0	SE
20250731.09	0.36	SW	3.2	2	N
20250731.12	0.36	SW	3.2	3	W
20250731.15	0.36	S	3.0	3	W
20250731.18	0.35	S	2.9	2	W
20250731.21	0.34	S	2.9	2	NW
20250801.00	0.31	S	2.9	2	W
20250801.03	0.29	S	2.8	3	NW
20250801.06	0.28	S	2.7	3	SW
20250801.09	0.27	SW	2.5	2	SW
20250801.12	0.25	SW	2.4	1	W
20250801.15	0.23	SW	2.5	1	W
20250801.18	0.22	SW	2.6	1	S
20250801.21	0.20	SW	2.7	2	E
20250802.00	0.20	SW	2.6	3	E
20250802.03	0.19	SW	2.4	2	SE
20250802.06	0.19	SW	2.6	1	NE
20250802.09	0.19	SW	2.6	3	NE
20250802.12	0.19	SW	2.4	4	NE

### Wind condition in the Kuryik



### Wave condition in the Kuryik



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250728.12	0.10	SW	1.4	2	SW
20250728.15	0.21	SW	2.2	2	W
20250728.18	0.26	SW	2.3	2	W
20250728.21	0.30	W	2.5	3	SW
20250729.00	0.33	NW	2.6	4	E
20250729.03	0.37	NW	2.7	3	E
20250729.06	0.41	NW	2.7	3	SE
20250729.09	0.44	NW	2.8	3	S
20250729.12	0.43	NW	2.8	2	SW
20250729.15	0.43	NW	3.0	2	SW
20250729.18	0.47	W	3.2	1	S
20250729.21	0.48	W	3.3	2	W
20250730.00	0.45	W	3.4	2	N
20250730.03	0.41	W	3.3	2	W
20250730.06	0.40	W	3.1	2	W
20250730.09	0.38	W	2.9	2	W
20250730.12	0.36	W	2.9	1	NW
20250730.15	0.36	W	2.8	3	N
20250730.18	0.39	SW	2.8	3	SW
20250730.21	0.41	SW	2.8	2	SW
20250731.00	0.39	SW	3.0	1	SW
20250731.03	0.38	SW	3.1	1	S
20250731.06	0.38	SW	3.1	2	E
20250731.09	0.40	SW	3.1	3	S
20250731.12	0.40	SW	3.1	4	S
20250731.15	0.40	SW	2.9	3	S
20250731.18	0.42	SW	2.8	0	W
20250731.21	0.43	SW	2.8	1	NW
20250801.00	0.39	SW	2.8	3	W
20250801.03	0.35	SW	2.6	4	SW
20250801.06	0.32	SW	2.5	3	SW
20250801.09	0.32	SW	2.3	4	SW
20250801.12	0.39	SW	2.3	4	S
20250801.15	0.36	SW	2.4	3	SW
20250801.18	0.29	SW	2.5	2	SW
20250801.21	0.25	SW	2.6	2	SW
20250802.00	0.23	SW	2.5	0	S
20250802.03	0.23	SW	2.4	2	W
20250802.06	0.23	SW	2.2	4	NW
20250802.09	0.24	SW	2.1	3	W
20250802.12	0.24	S	2.0	3	NE

*\*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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