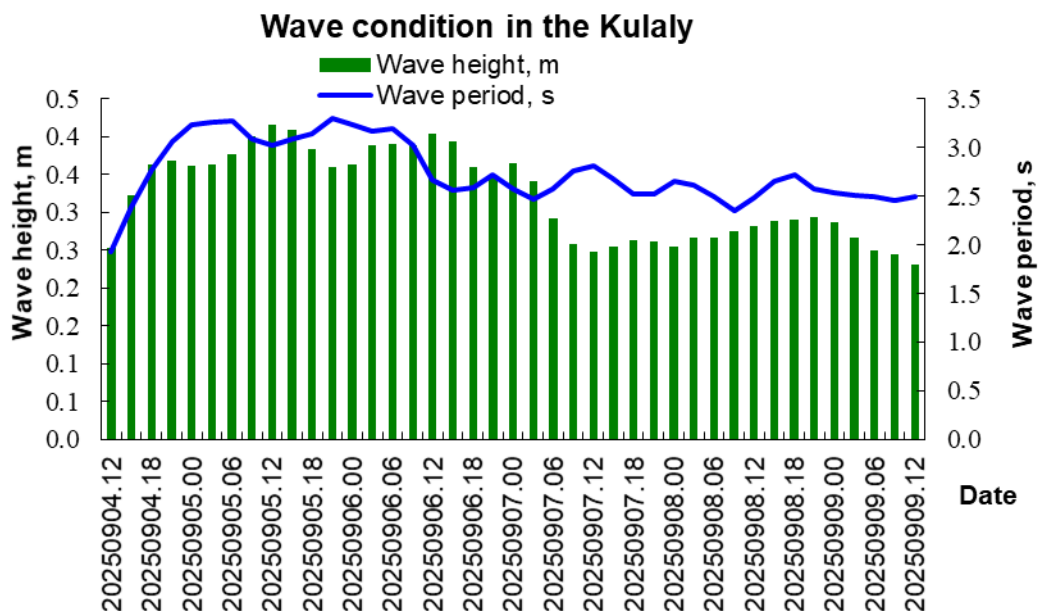
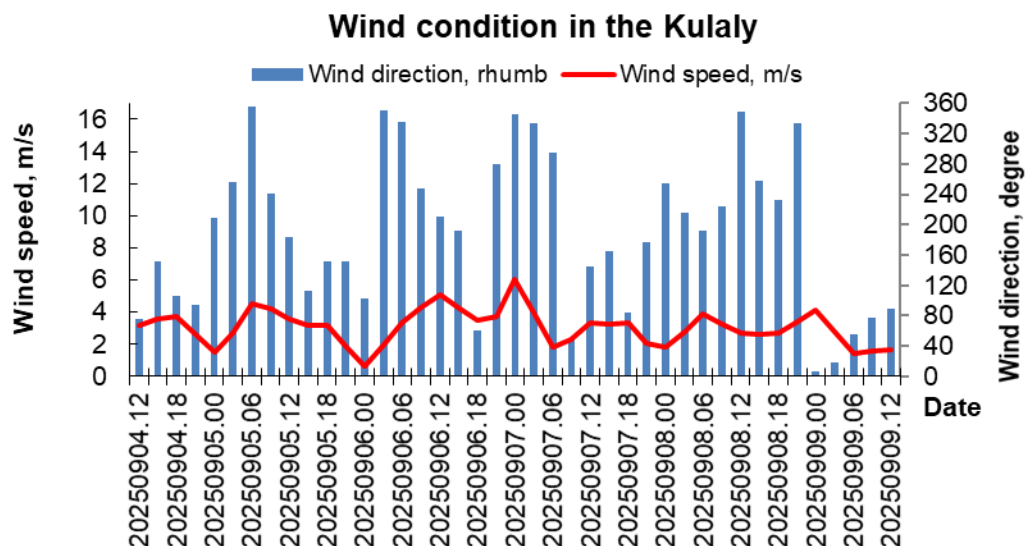




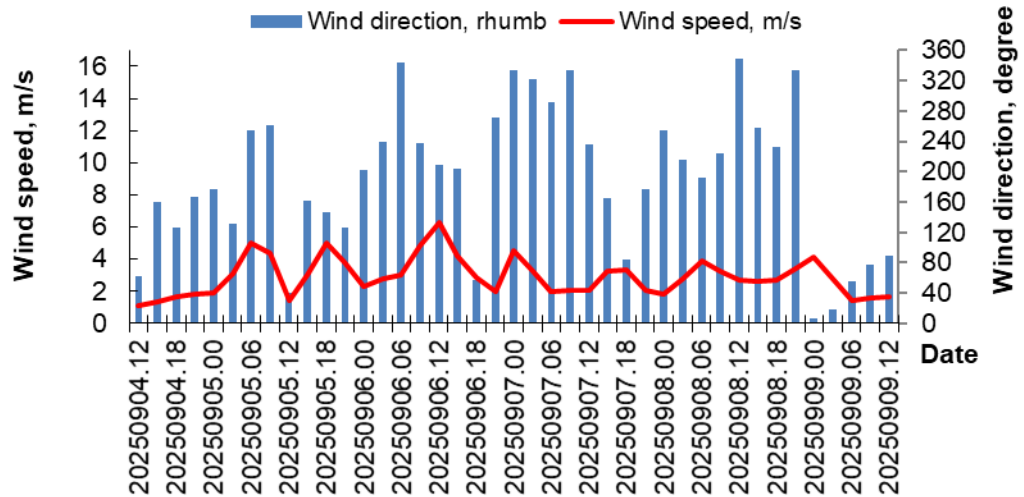
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period September 04 – 09, 2025.**

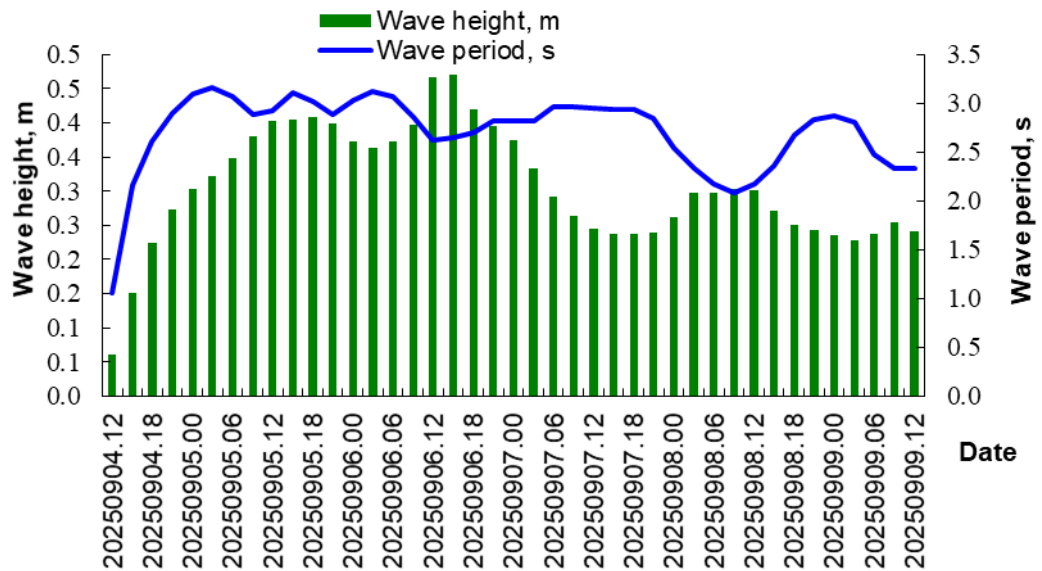


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250904.12	0.25	N	1.9	3	E
20250904.15	0.32	N	2.4	4	SE
20250904.18	0.36	NW	2.8	4	E
20250904.21	0.37	NW	3.1	3	E
20250905.00	0.36	NW	3.2	1	SW
20250905.03	0.36	W	3.3	3	W
20250905.06	0.38	W	3.3	5	N
20250905.09	0.40	W	3.1	4	SW
20250905.12	0.42	W	3.0	4	S
20250905.15	0.41	W	3.1	3	SE
20250905.18	0.38	W	3.1	3	SE
20250905.21	0.36	SW	3.3	2	SE
20250906.00	0.36	SW	3.2	1	E
20250906.03	0.39	W	3.2	2	N
20250906.06	0.39	W	3.2	3	NW
20250906.09	0.39	SW	3.0	4	W
20250906.12	0.40	SW	2.7	5	SW
20250906.15	0.39	SW	2.6	4	S
20250906.18	0.36	SW	2.6	3	NE
20250906.21	0.35	W	2.7	4	W
20250907.00	0.36	SW	2.6	6	N
20250907.03	0.34	SW	2.5	4	NW
20250907.06	0.29	SW	2.6	2	NW
20250907.09	0.26	SW	2.8	2	NE
20250907.12	0.25	SW	2.8	3	SE
20250907.15	0.25	SW	2.7	3	S
20250907.18	0.26	SW	2.5	3	E
20250907.21	0.26	SW	2.5	2	S
20250908.00	0.25	SW	2.7	2	W
20250908.03	0.27	SW	2.6	3	SW
20250908.06	0.27	S	2.5	4	S
20250908.09	0.28	SW	2.4	3	SW
20250908.12	0.28	SW	2.5	3	N
20250908.15	0.29	SW	2.6	3	W
20250908.18	0.29	SW	2.7	3	SW
20250908.21	0.29	SW	2.6	3	NW
20250909.00	0.29	S	2.5	4	N
20250909.03	0.27	S	2.5	3	N
20250909.06	0.25	SW	2.5	1	NE
20250909.09	0.24	SW	2.5	2	E
20250909.12	0.23	SW	2.5	2	E

Wind condition in the Fort-Shevchenko

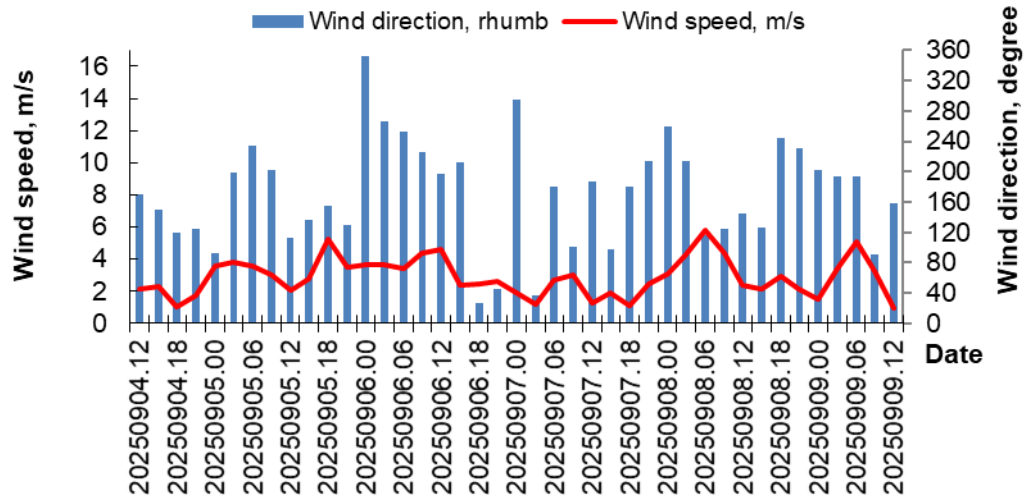


Wave condition in the Fort-Shevchenko

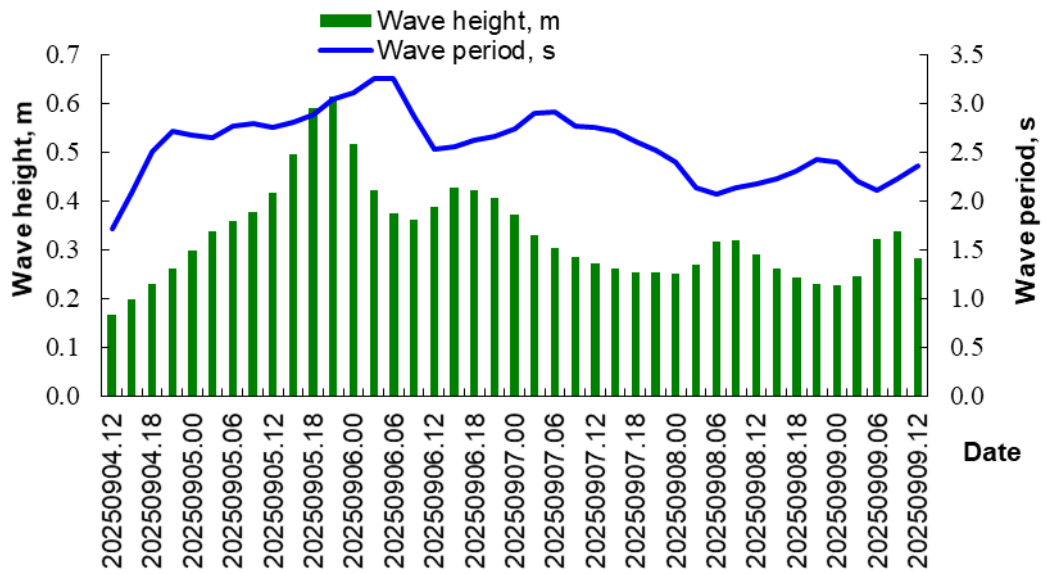


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250904.12	0.06	NE	1.1	1	NE
20250904.15	0.15	N	2.2	1	S
20250904.18	0.22	W	2.6	2	SE
20250904.21	0.27	W	2.9	2	S
20250905.00	0.30	W	3.1	2	S
20250905.03	0.32	W	3.2	3	SE
20250905.06	0.35	W	3.1	5	W
20250905.09	0.38	SW	2.9	4	W
20250905.12	0.40	SW	2.9	1	NE
20250905.15	0.40	SW	3.1	3	S
20250905.18	0.41	SW	3.0	5	SE
20250905.21	0.40	W	2.9	4	SE
20250906.00	0.37	W	3.0	2	S
20250906.03	0.36	W	3.1	3	SW
20250906.06	0.37	SW	3.1	3	N
20250906.09	0.40	SW	2.9	5	SW
20250906.12	0.47	SW	2.6	6	SW
20250906.15	0.47	SW	2.6	4	SW
20250906.18	0.42	SW	2.7	3	NE
20250906.21	0.39	W	2.8	2	W
20250907.00	0.38	W	2.8	5	NW
20250907.03	0.33	W	2.8	3	NW
20250907.06	0.29	W	3.0	2	W
20250907.09	0.26	W	3.0	2	NW
20250907.12	0.25	SW	3.0	2	SW
20250907.15	0.24	SW	2.9	3	S
20250907.18	0.24	SW	2.9	3	E
20250907.21	0.24	SW	2.9	2	S
20250908.00	0.26	SW	2.5	2	W
20250908.03	0.30	SW	2.3	3	SW
20250908.06	0.30	SW	2.2	4	S
20250908.09	0.30	W	2.1	3	SW
20250908.12	0.30	W	2.2	3	N
20250908.15	0.27	W	2.4	3	W
20250908.18	0.25	SW	2.7	3	SW
20250908.21	0.24	SW	2.8	3	NW
20250909.00	0.24	SW	2.9	4	N
20250909.03	0.23	SW	2.8	3	N
20250909.06	0.24	SW	2.5	1	NE
20250909.09	0.26	SW	2.3	2	E
20250909.12	0.24	SW	2.3	2	E

Wind condition in the Aktau

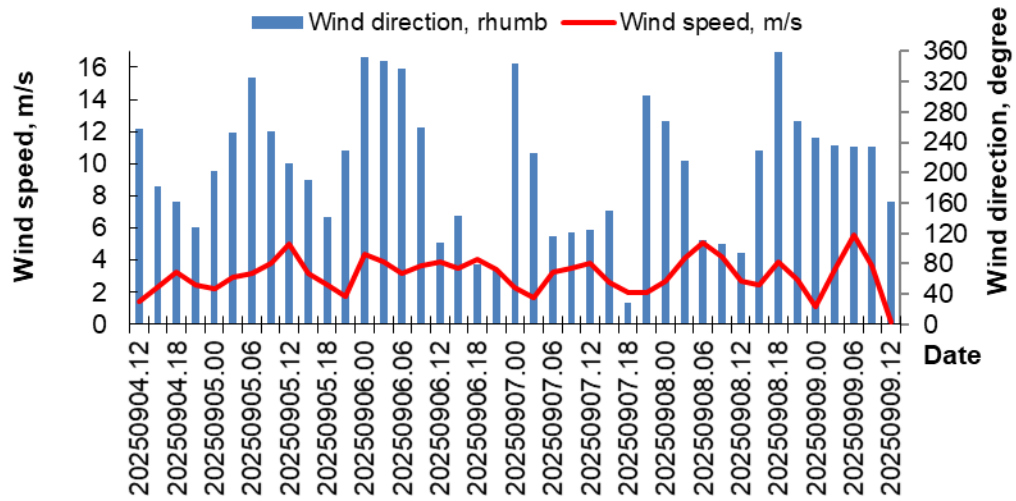


Wave condition in the Aktau

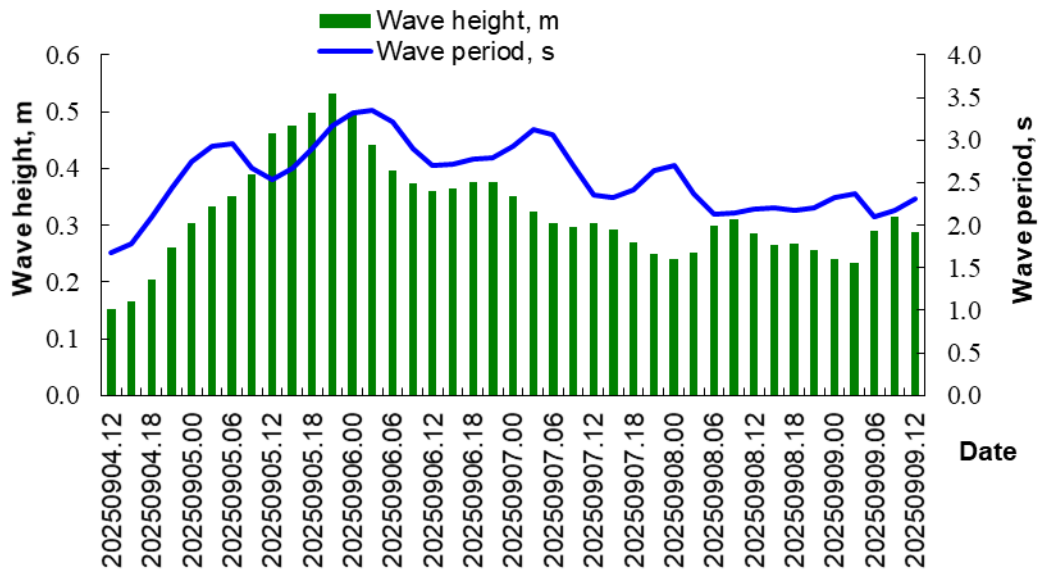


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250904.12	0.17	N	1.7	2	S
20250904.15	0.20	N	2.1	2	SE
20250904.18	0.23	N	2.5	1	SE
20250904.21	0.26	W	2.7	2	SE
20250905.00	0.30	SW	2.7	4	E
20250905.03	0.34	SW	2.7	4	S
20250905.06	0.36	SW	2.8	4	SW
20250905.09	0.38	SW	2.8	3	S
20250905.12	0.42	SW	2.8	2	E
20250905.15	0.49	W	2.8	3	SE
20250905.18	0.59	W	2.9	5	SE
20250905.21	0.61	W	3.0	4	SE
20250906.00	0.52	W	3.1	4	N
20250906.03	0.42	W	3.3	4	W
20250906.06	0.37	W	3.2	3	W
20250906.09	0.36	W	2.9	4	SW
20250906.12	0.39	SW	2.5	5	S
20250906.15	0.43	SW	2.5	2	SW
20250906.18	0.42	SW	2.6	2	NE
20250906.21	0.41	W	2.7	3	NE
20250907.00	0.37	W	2.7	2	NW
20250907.03	0.33	W	2.9	1	NE
20250907.06	0.30	W	2.9	3	S
20250907.09	0.29	W	2.8	3	E
20250907.12	0.27	W	2.7	1	S
20250907.15	0.26	W	2.7	2	E
20250907.18	0.25	W	2.6	1	S
20250907.21	0.25	W	2.5	3	SW
20250908.00	0.25	W	2.4	3	W
20250908.03	0.27	SW	2.1	4	SW
20250908.06	0.32	W	2.1	6	SE
20250908.09	0.32	W	2.1	4	SE
20250908.12	0.29	W	2.2	2	SE
20250908.15	0.26	W	2.2	2	SE
20250908.18	0.24	W	2.3	3	SW
20250908.21	0.23	W	2.4	2	SW
20250909.00	0.23	W	2.4	1	S
20250909.03	0.25	W	2.2	3	S
20250909.06	0.32	W	2.1	5	S
20250909.09	0.34	W	2.2	3	E
20250909.12	0.28	W	2.4	1	S

Wind condition in the Peschanyi

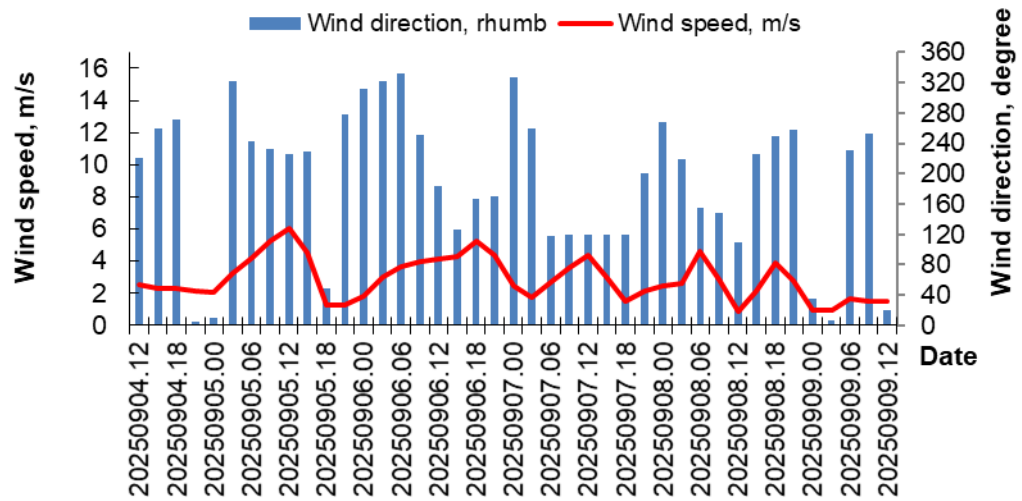


Wave condition in the Peschanyi

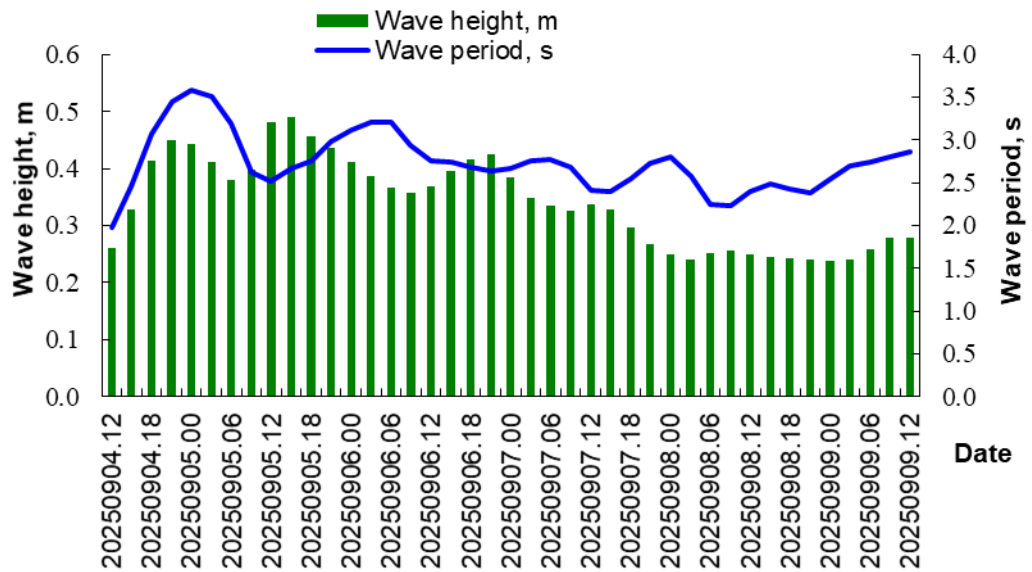


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250904.12	0.15	S	1.7	1	W
20250904.15	0.17	SW	1.8	2	S
20250904.18	0.20	W	2.1	3	S
20250904.21	0.26	W	2.5	2	SE
20250905.00	0.30	SW	2.8	2	S
20250905.03	0.33	SW	2.9	3	W
20250905.06	0.35	S	3.0	3	NW
20250905.09	0.39	S	2.7	4	W
20250905.12	0.46	SW	2.5	5	SW
20250905.15	0.48	SW	2.7	3	S
20250905.18	0.50	W	2.9	2	SE
20250905.21	0.53	W	3.2	2	SW
20250906.00	0.50	W	3.3	4	N
20250906.03	0.44	W	3.4	4	N
20250906.06	0.40	W	3.2	3	N
20250906.09	0.37	W	2.9	4	W
20250906.12	0.36	SW	2.7	4	E
20250906.15	0.36	W	2.7	3	SE
20250906.18	0.38	W	2.8	4	E
20250906.21	0.37	W	2.8	3	E
20250907.00	0.35	W	2.9	2	N
20250907.03	0.32	W	3.1	2	SW
20250907.06	0.30	W	3.1	3	SE
20250907.09	0.30	W	2.7	4	SE
20250907.12	0.30	W	2.4	4	SE
20250907.15	0.29	W	2.3	3	SE
20250907.18	0.27	W	2.4	2	NE
20250907.21	0.25	W	2.6	2	NW
20250908.00	0.24	W	2.7	3	W
20250908.03	0.25	W	2.4	4	SW
20250908.06	0.30	W	2.1	5	E
20250908.09	0.31	W	2.1	4	E
20250908.12	0.29	W	2.2	3	E
20250908.15	0.27	W	2.2	2	SW
20250908.18	0.27	W	2.2	4	N
20250908.21	0.26	W	2.2	3	W
20250909.00	0.24	W	2.3	1	SW
20250909.03	0.23	W	2.4	3	SW
20250909.06	0.29	SW	2.1	6	SW
20250909.09	0.31	SW	2.2	4	SW
20250909.12	0.29	SW	2.3	0	S

Wind condition in the Fetisovo

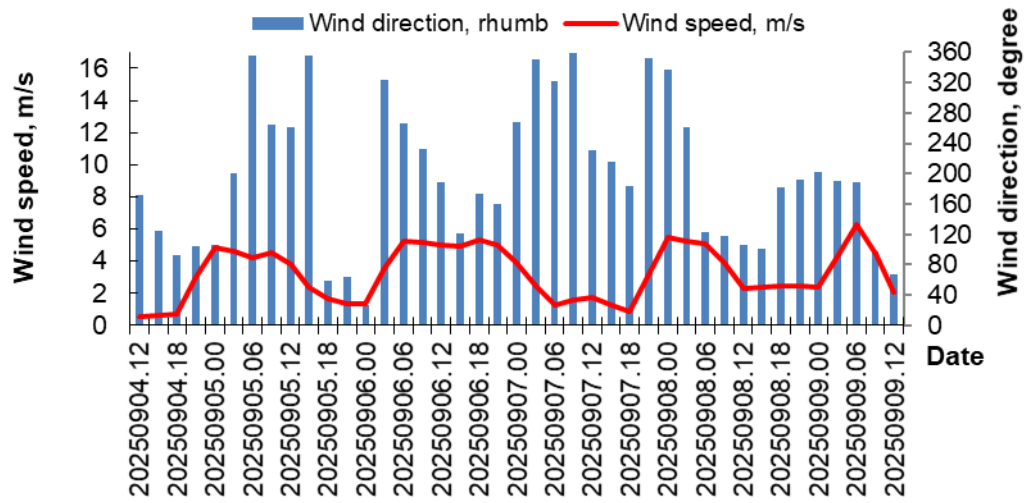


Wave condition in the Fetisovo

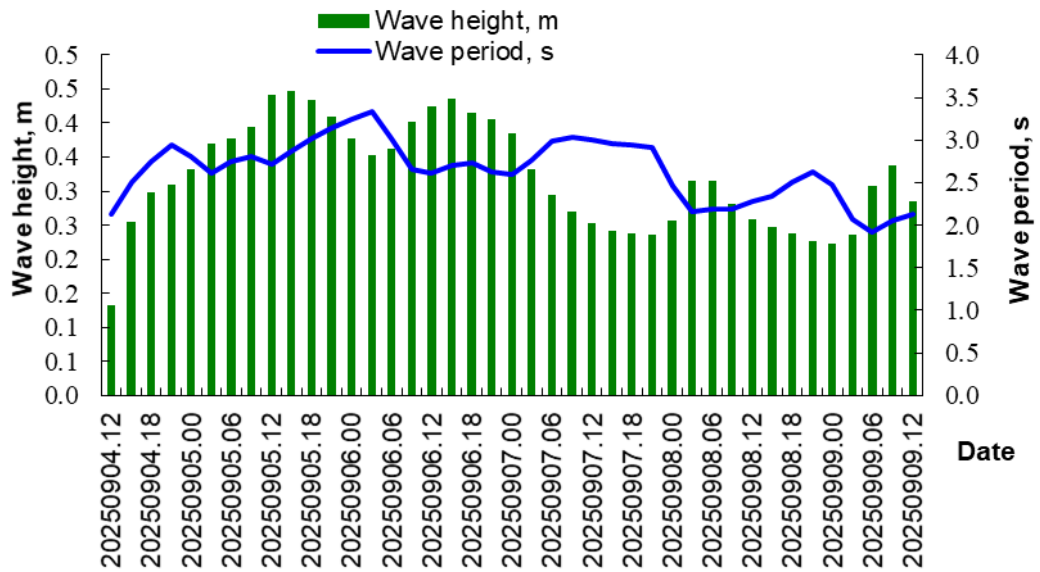


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250904.12	0.26	SW	2.0	3	SW
20250904.15	0.33	SW	2.5	2	W
20250904.18	0.41	S	3.1	2	W
20250904.21	0.45	S	3.4	2	N
20250905.00	0.44	S	3.6	2	N
20250905.03	0.41	S	3.5	3	NW
20250905.06	0.38	S	3.2	4	SW
20250905.09	0.40	SW	2.6	5	SW
20250905.12	0.48	SW	2.5	6	SW
20250905.15	0.49	SW	2.7	5	SW
20250905.18	0.46	SW	2.8	1	NE
20250905.21	0.44	W	3.0	1	W
20250906.00	0.41	W	3.1	2	NW
20250906.03	0.39	W	3.2	3	NW
20250906.06	0.37	W	3.2	4	NW
20250906.09	0.36	W	2.9	4	W
20250906.12	0.37	W	2.8	4	S
20250906.15	0.39	W	2.7	4	SE
20250906.18	0.42	W	2.7	5	S
20250906.21	0.42	W	2.6	4	S
20250907.00	0.39	W	2.7	2	NW
20250907.03	0.35	W	2.8	2	W
20250907.06	0.33	W	2.8	3	SE
20250907.09	0.33	W	2.7	4	SE
20250907.12	0.34	W	2.4	4	SE
20250907.15	0.33	W	2.4	3	SE
20250907.18	0.30	W	2.5	1	SE
20250907.21	0.27	W	2.7	2	S
20250908.00	0.25	W	2.8	2	W
20250908.03	0.24	W	2.6	3	SW
20250908.06	0.25	W	2.2	5	SE
20250908.09	0.26	W	2.2	3	SE
20250908.12	0.25	W	2.4	1	E
20250908.15	0.24	W	2.5	2	SW
20250908.18	0.24	W	2.4	4	W
20250908.21	0.24	W	2.4	3	W
20250909.00	0.24	W	2.5	1	NE
20250909.03	0.24	W	2.7	1	N
20250909.06	0.26	W	2.7	2	SW
20250909.09	0.28	W	2.8	2	W
20250909.12	0.28	W	2.9	2	N

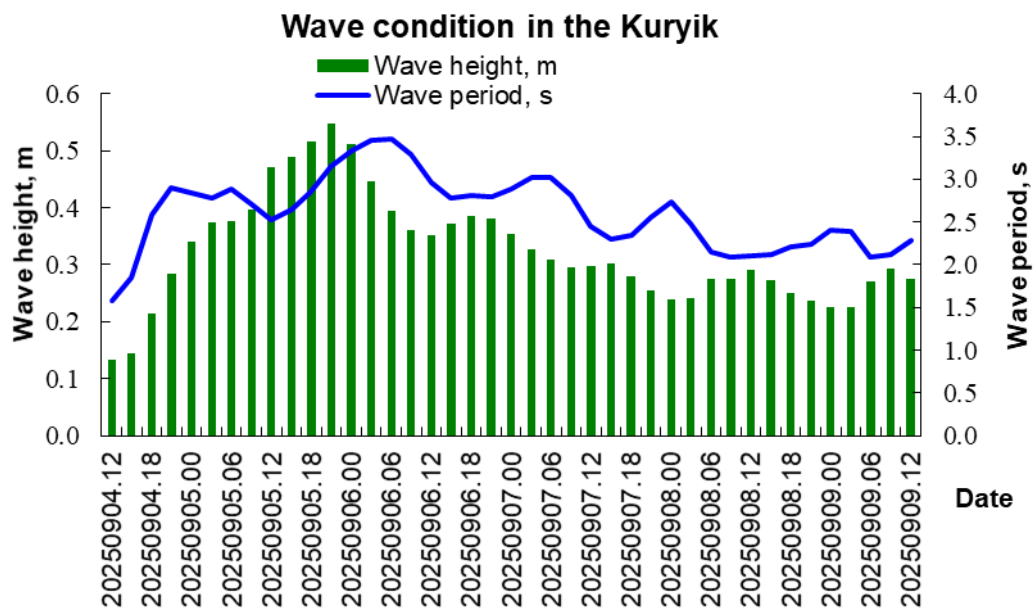
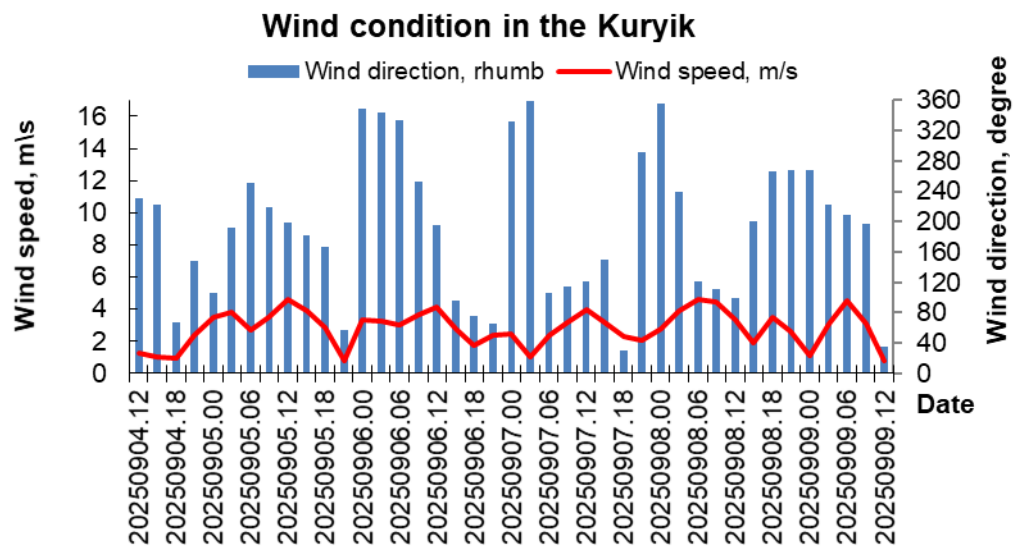
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250904.12	0.13	NE	2.1	1	S
20250904.15	0.26	NE	2.5	1	SE
20250904.18	0.30	E	2.8	1	E
20250904.21	0.31	S	2.9	3	E
20250905.00	0.33	SW	2.8	5	E
20250905.03	0.37	SW	2.6	5	S
20250905.06	0.38	SW	2.8	4	N
20250905.09	0.39	SW	2.8	5	W
20250905.12	0.44	SW	2.7	4	W
20250905.15	0.45	SW	2.9	2	N
20250905.18	0.43	SW	3.0	2	NE
20250905.21	0.41	W	3.1	1	NE
20250906.00	0.38	W	3.2	1	NE
20250906.03	0.35	W	3.3	4	NW
20250906.06	0.36	SW	3.0	5	W
20250906.09	0.40	SW	2.7	5	SW
20250906.12	0.43	SW	2.6	5	S
20250906.15	0.44	SW	2.7	5	SE
20250906.18	0.41	SW	2.7	5	S
20250906.21	0.41	W	2.6	5	S
20250907.00	0.39	W	2.6	4	W
20250907.03	0.33	W	2.8	2	N
20250907.06	0.29	W	3.0	1	NW
20250907.09	0.27	W	3.0	2	N
20250907.12	0.25	W	3.0	2	SW
20250907.15	0.24	W	3.0	1	SW
20250907.18	0.24	W	2.9	1	S
20250907.21	0.24	SW	2.9	3	N
20250908.00	0.26	SW	2.5	6	NW
20250908.03	0.31	S	2.2	5	W
20250908.06	0.32	SW	2.2	5	SE
20250908.09	0.28	SW	2.2	4	SE
20250908.12	0.26	W	2.3	2	E
20250908.15	0.25	W	2.3	2	E
20250908.18	0.24	W	2.5	2	S
20250908.21	0.23	SW	2.6	2	S
20250909.00	0.22	SW	2.5	2	S
20250909.03	0.24	SW	2.1	4	S
20250909.06	0.31	W	1.9	6	S
20250909.09	0.34	W	2.1	4	E
20250909.12	0.29	W	2.1	2	NE



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250904.12	0.13	SW	1.6	1	SW
20250904.15	0.14	SW	1.8	1	SW
20250904.18	0.21	S	2.6	1	E
20250904.21	0.28	S	2.9	2	SE
20250905.00	0.34	S	2.8	4	E
20250905.03	0.37	S	2.8	4	S
20250905.06	0.38	S	2.9	3	W
20250905.09	0.40	S	2.7	4	SW
20250905.12	0.47	SW	2.5	5	S
20250905.15	0.49	SW	2.6	4	S
20250905.18	0.52	W	2.9	3	S
20250905.21	0.55	W	3.2	1	NE
20250906.00	0.51	W	3.3	3	N
20250906.03	0.45	W	3.5	3	N
20250906.06	0.39	W	3.5	3	NW
20250906.09	0.36	W	3.3	4	W
20250906.12	0.35	W	3.0	4	S
20250906.15	0.37	SW	2.8	3	E
20250906.18	0.39	SW	2.8	2	E
20250906.21	0.38	SW	2.8	2	NE
20250907.00	0.35	W	2.9	2	NW
20250907.03	0.33	W	3.0	1	N
20250907.06	0.31	W	3.0	2	E
20250907.09	0.30	W	2.8	3	SE
20250907.12	0.30	W	2.4	4	SE
20250907.15	0.30	W	2.3	3	SE
20250907.18	0.28	W	2.4	2	NE
20250907.21	0.26	W	2.5	2	W
20250908.00	0.24	W	2.7	3	N
20250908.03	0.24	W	2.5	4	SW
20250908.06	0.27	W	2.1	5	SE
20250908.09	0.27	W	2.1	4	E
20250908.12	0.29	W	2.1	3	E
20250908.15	0.27	W	2.1	2	S
20250908.18	0.25	W	2.2	3	W
20250908.21	0.24	W	2.2	3	W
20250909.00	0.23	W	2.4	1	W
20250909.03	0.23	W	2.4	3	SW
20250909.06	0.27	W	2.1	5	SW
20250909.09	0.29	W	2.1	3	S
20250909.12	0.28	W	2.3	1	NE

**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: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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