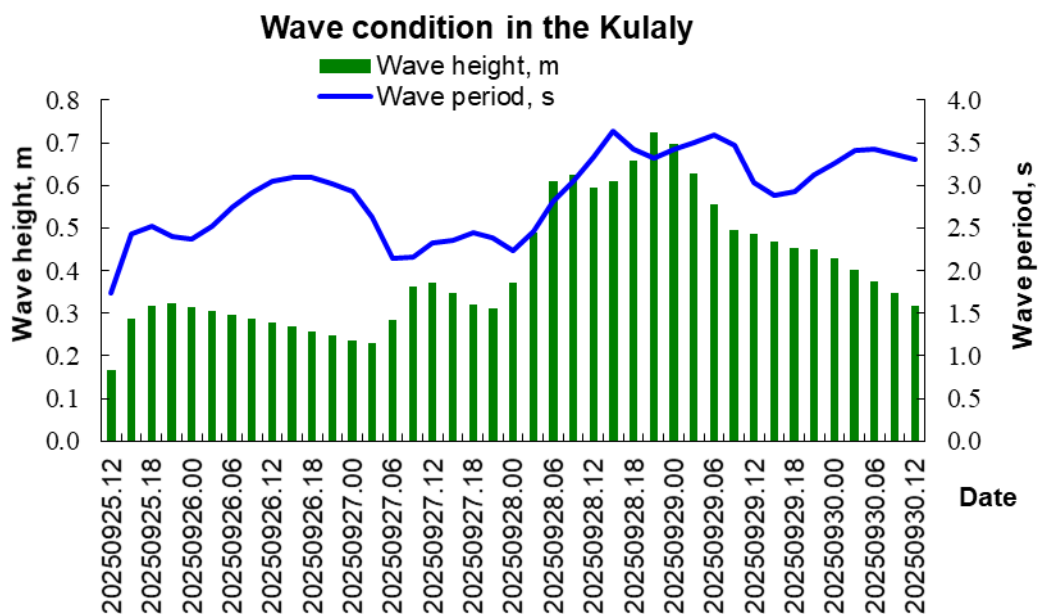
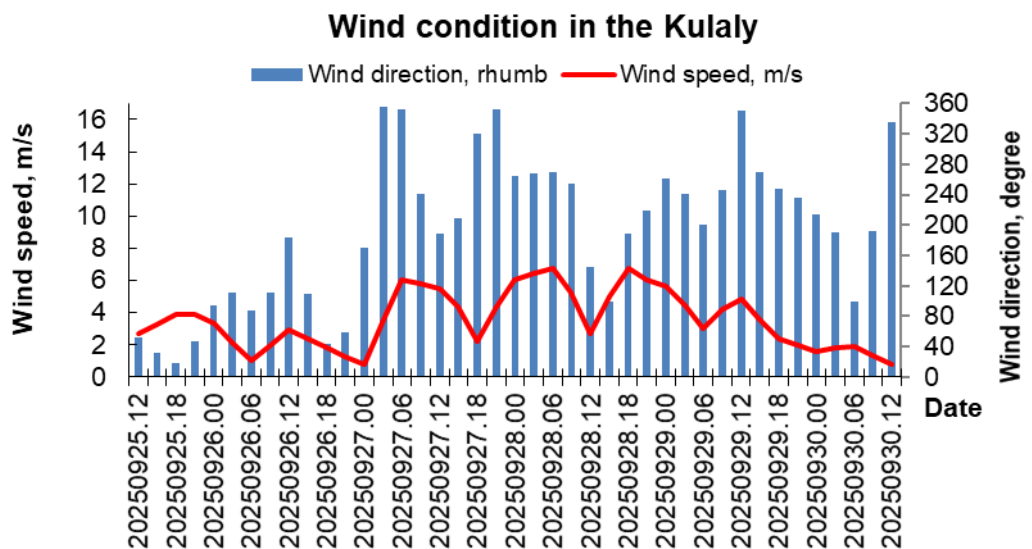




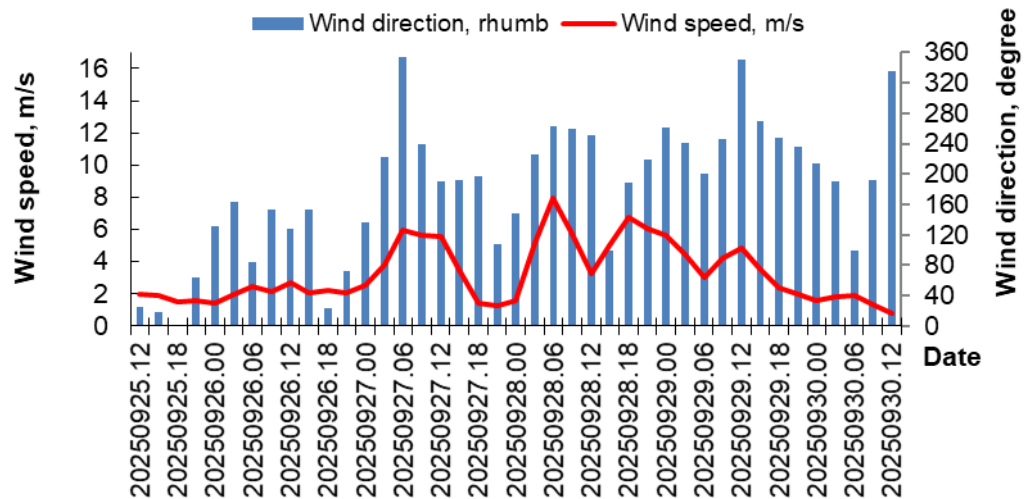
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 25 – 30, 2025.**

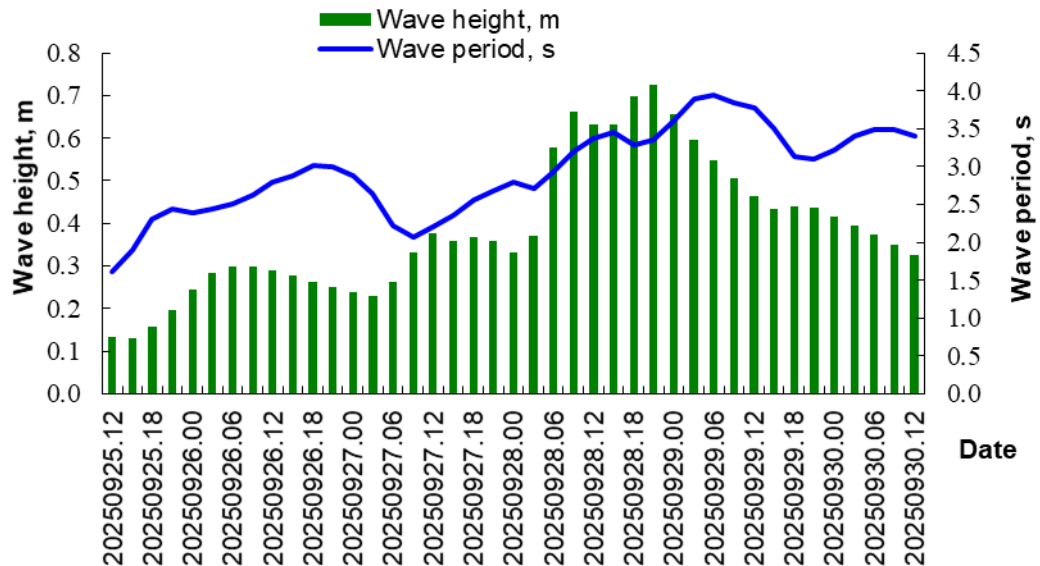


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250925.12	0.17	NE	1.7	3	NE
20250925.15	0.29	N	2.4	3	NE
20250925.18	0.32	N	2.5	4	N
20250925.21	0.32	N	2.4	4	NE
20250926.00	0.31	N	2.4	3	E
20250926.03	0.31	N	2.5	2	E
20250926.06	0.30	NE	2.8	1	E
20250926.09	0.29	NE	2.9	2	E
20250926.12	0.28	NE	3.0	3	S
20250926.15	0.27	NE	3.1	2	E
20250926.18	0.26	NE	3.1	2	NE
20250926.21	0.25	NE	3.0	1	NE
20250927.00	0.24	NE	2.9	1	S
20250927.03	0.23	NE	2.6	4	N
20250927.06	0.29	SE	2.1	6	N
20250927.09	0.36	S	2.2	6	SW
20250927.12	0.37	S	2.3	6	S
20250927.15	0.35	S	2.4	4	SW
20250927.18	0.32	S	2.4	2	NW
20250927.21	0.31	S	2.4	4	N
20250928.00	0.37	S	2.2	6	W
20250928.03	0.49	S	2.5	6	W
20250928.06	0.61	S	2.8	7	W
20250928.09	0.62	S	3.0	5	W
20250928.12	0.60	S	3.3	3	SE
20250928.15	0.61	S	3.6	5	E
20250928.18	0.66	SW	3.4	7	S
20250928.21	0.73	SW	3.3	6	SW
20250929.00	0.70	SW	3.4	6	W
20250929.03	0.63	SW	3.5	4	SW
20250929.06	0.56	SW	3.6	3	S
20250929.09	0.50	SW	3.5	4	SW
20250929.12	0.48	SW	3.0	5	N
20250929.15	0.47	SW	2.9	4	W
20250929.18	0.45	SW	2.9	2	W
20250929.21	0.45	SW	3.1	2	SW
20250930.00	0.43	SW	3.3	2	SW
20250930.03	0.40	SW	3.4	2	S
20250930.06	0.37	SW	3.4	2	E
20250930.09	0.35	SW	3.4	1	S
20250930.12	0.32	SW	3.3	1	NW

Wind condition in the Fort-Shevchenko

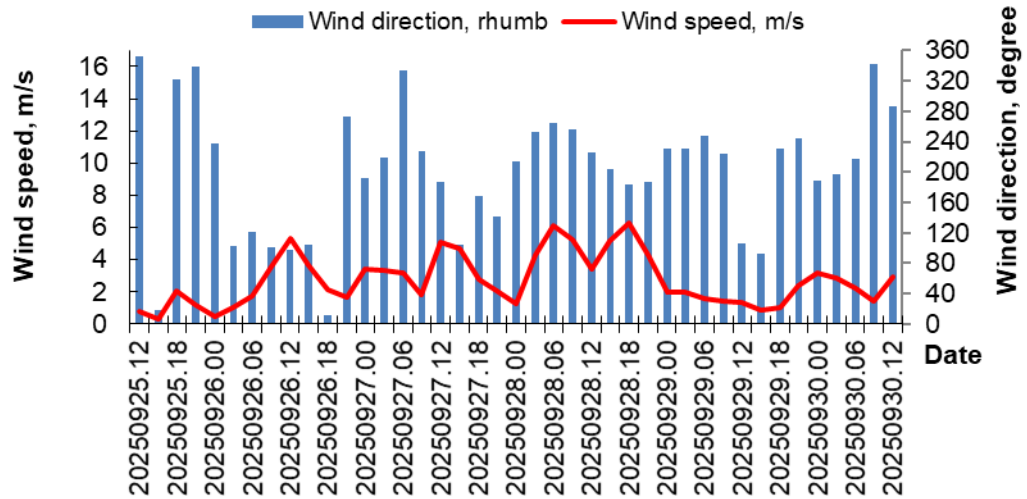


Wave condition in the Fort-Shevchenko

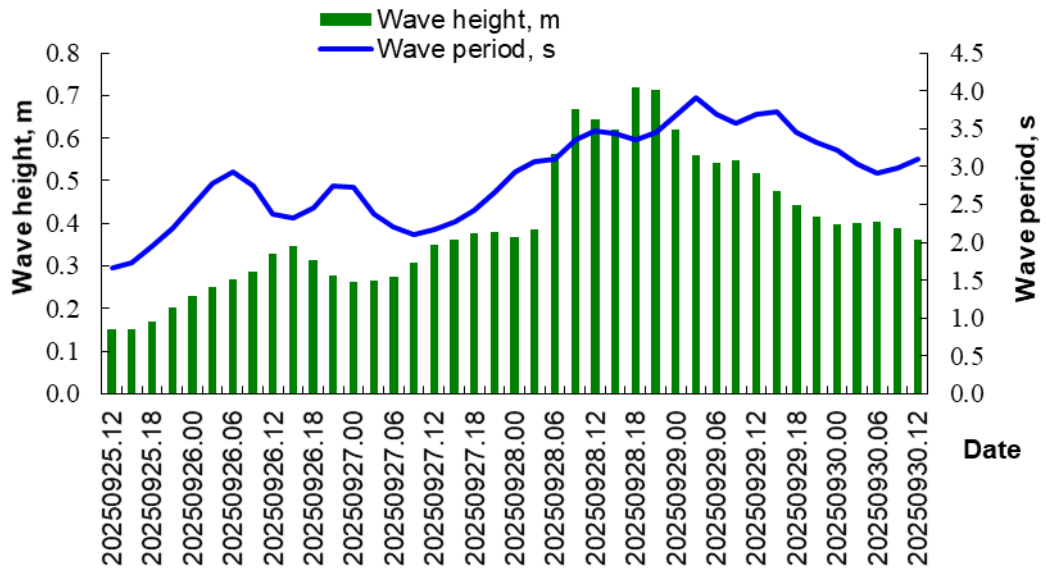


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250925.12	0.13	NE	1.6	2	NE
20250925.15	0.13	N	1.9	2	N
20250925.18	0.16	N	2.3	2	N
20250925.21	0.20	N	2.4	2	NE
20250926.00	0.25	N	2.4	1	SE
20250926.03	0.28	NE	2.4	2	S
20250926.06	0.30	NE	2.5	2	E
20250926.09	0.30	N	2.6	2	SE
20250926.12	0.29	N	2.8	3	SE
20250926.15	0.28	N	2.9	2	SE
20250926.18	0.26	NE	3.0	2	NE
20250926.21	0.25	NE	3.0	2	E
20250927.00	0.24	NE	2.9	3	SE
20250927.03	0.23	NE	2.6	4	SW
20250927.06	0.26	SE	2.2	6	N
20250927.09	0.33	S	2.1	6	SW
20250927.12	0.38	SW	2.2	6	S
20250927.15	0.36	SW	2.4	4	S
20250927.18	0.37	SW	2.6	1	S
20250927.21	0.36	SW	2.7	1	E
20250928.00	0.33	SW	2.8	2	SE
20250928.03	0.37	SW	2.7	5	SW
20250928.06	0.58	SW	2.9	8	W
20250928.09	0.66	S	3.2	6	W
20250928.12	0.63	S	3.4	3	W
20250928.15	0.63	S	3.5	5	E
20250928.18	0.70	SW	3.3	7	S
20250928.21	0.72	SW	3.4	6	SW
20250929.00	0.66	SW	3.6	6	W
20250929.03	0.60	SW	3.9	4	SW
20250929.06	0.55	SW	3.9	3	S
20250929.09	0.51	SW	3.8	4	SW
20250929.12	0.47	SW	3.8	5	N
20250929.15	0.43	SW	3.5	4	W
20250929.18	0.44	SW	3.1	2	W
20250929.21	0.44	SW	3.1	2	SW
20250930.00	0.42	SW	3.2	2	SW
20250930.03	0.40	SW	3.4	2	S
20250930.06	0.37	SW	3.5	2	E
20250930.09	0.35	SW	3.5	1	S
20250930.12	0.33	SW	3.4	1	NW

Wind condition in the Aktau

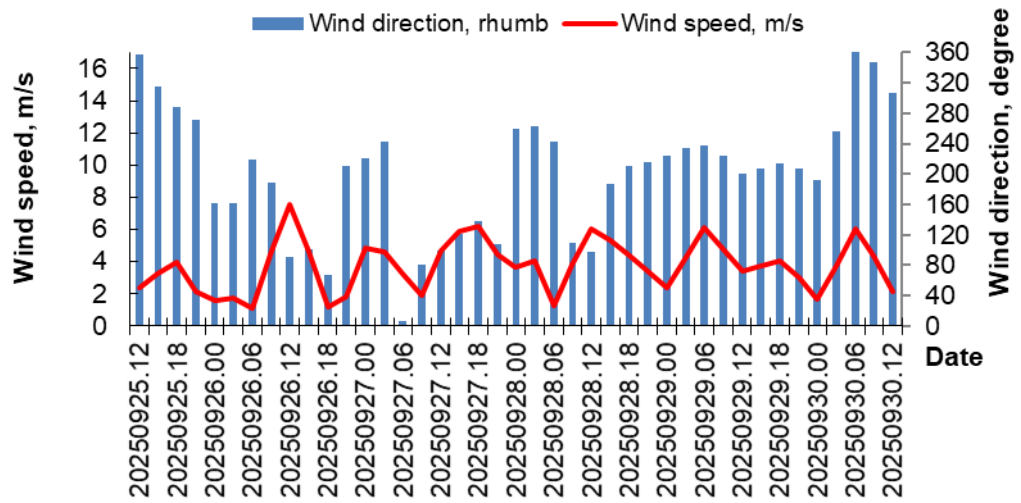


Wave condition in the Aktau

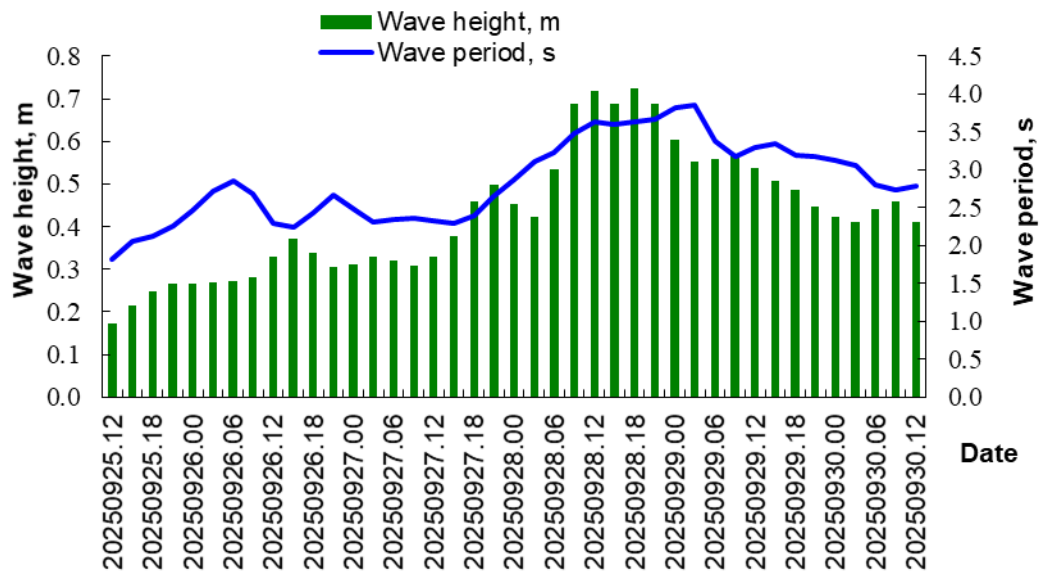


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250925.12	0.15	S	1.7	1	N
20250925.15	0.15	SE	1.7	0	N
20250925.18	0.17	SE	1.9	2	NW
20250925.21	0.20	SE	2.2	1	N
20250926.00	0.23	E	2.5	0	SW
20250926.03	0.25	E	2.8	1	E
20250926.06	0.27	NE	2.9	2	SE
20250926.09	0.29	NE	2.7	4	E
20250926.12	0.33	NW	2.4	5	E
20250926.15	0.35	NW	2.3	4	E
20250926.18	0.31	NW	2.5	2	N
20250926.21	0.28	NW	2.7	2	W
20250927.00	0.26	NW	2.7	3	S
20250927.03	0.26	NW	2.4	3	SW
20250927.06	0.28	NW	2.2	3	NW
20250927.09	0.31	SW	2.1	2	SW
20250927.12	0.35	SW	2.2	5	S
20250927.15	0.36	SW	2.3	5	E
20250927.18	0.38	W	2.4	3	S
20250927.21	0.38	W	2.7	2	SE
20250928.00	0.37	W	2.9	1	SW
20250928.03	0.39	SW	3.1	4	W
20250928.06	0.56	SW	3.1	6	W
20250928.09	0.67	SW	3.4	5	W
20250928.12	0.64	SW	3.5	3	SW
20250928.15	0.62	SW	3.4	5	SW
20250928.18	0.72	SW	3.3	6	S
20250928.21	0.71	SW	3.4	4	S
20250929.00	0.62	SW	3.7	2	SW
20250929.03	0.56	SW	3.9	2	SW
20250929.06	0.54	SW	3.7	2	SW
20250929.09	0.55	SW	3.6	1	SW
20250929.12	0.52	SW	3.7	1	E
20250929.15	0.48	SW	3.7	1	E
20250929.18	0.44	SW	3.5	1	SW
20250929.21	0.42	SW	3.3	2	SW
20250930.00	0.40	SW	3.2	3	S
20250930.03	0.40	SW	3.0	3	S
20250930.06	0.40	SW	2.9	2	SW
20250930.09	0.39	SW	3.0	1	N
20250930.12	0.36	SW	3.1	3	W

Wind condition in the Peschanyi

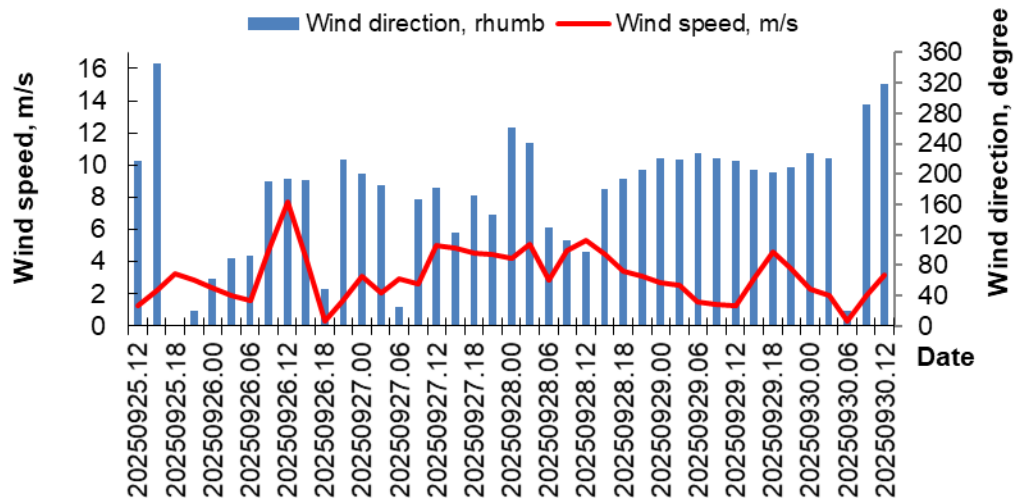


Wave condition in the Peschanyi

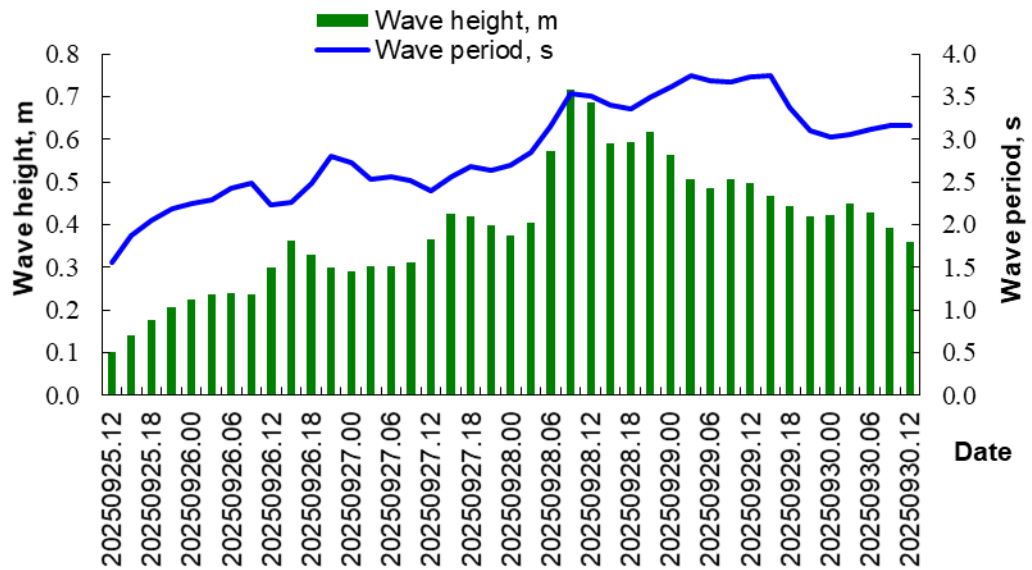


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250925.12	0.17	S	1.8	2	N
20250925.15	0.21	SE	2.1	3	NW
20250925.18	0.25	SE	2.1	4	W
20250925.21	0.27	SE	2.3	2	W
20250926.00	0.27	SE	2.5	2	S
20250926.03	0.27	SE	2.7	2	S
20250926.06	0.27	E	2.9	1	SW
20250926.09	0.28	E	2.7	5	S
20250926.12	0.33	NW	2.3	8	E
20250926.15	0.37	W	2.2	5	E
20250926.18	0.34	NW	2.4	1	E
20250926.21	0.31	NW	2.7	2	SW
20250927.00	0.31	NW	2.5	5	SW
20250927.03	0.33	W	2.3	5	SW
20250927.06	0.32	W	2.3	3	N
20250927.09	0.31	W	2.4	2	E
20250927.12	0.33	W	2.3	5	E
20250927.15	0.38	W	2.3	6	SE
20250927.18	0.46	W	2.4	6	SE
20250927.21	0.50	W	2.6	4	E
20250928.00	0.45	W	2.9	4	W
20250928.03	0.42	W	3.1	4	W
20250928.06	0.54	SW	3.2	1	SW
20250928.09	0.69	SW	3.5	4	E
20250928.12	0.72	SW	3.6	6	E
20250928.15	0.69	SW	3.6	5	S
20250928.18	0.73	SW	3.6	4	SW
20250928.21	0.69	SW	3.7	3	SW
20250929.00	0.60	SW	3.8	2	SW
20250929.03	0.55	SW	3.9	4	SW
20250929.06	0.56	SW	3.4	6	SW
20250929.09	0.57	SW	3.2	5	SW
20250929.12	0.54	SW	3.3	3	S
20250929.15	0.51	SW	3.3	4	SW
20250929.18	0.48	SW	3.2	4	SW
20250929.21	0.45	SW	3.2	3	SW
20250930.00	0.42	SW	3.1	2	S
20250930.03	0.41	SW	3.1	4	W
20250930.06	0.44	SW	2.8	6	N
20250930.09	0.46	SW	2.7	4	N
20250930.12	0.41	SW	2.8	2	NW

Wind condition in the Fetisovo

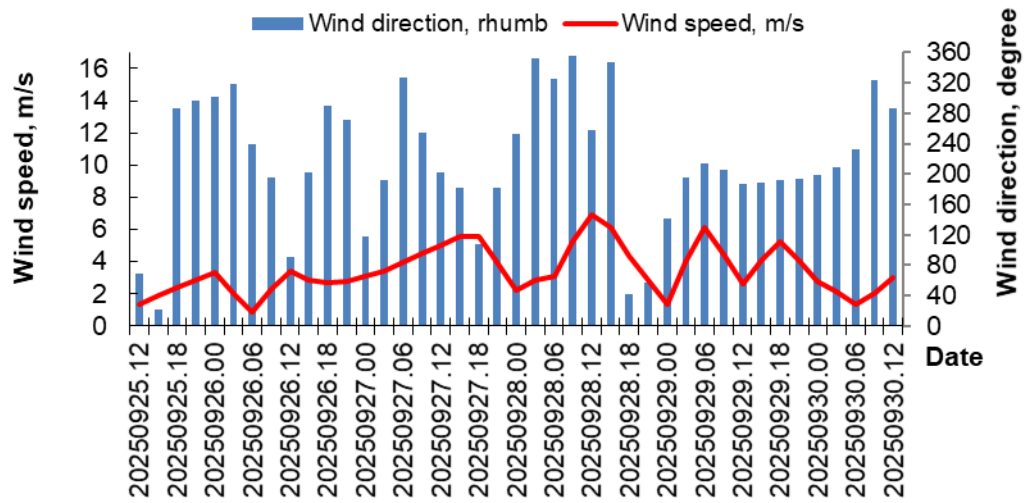


Wave condition in the Fetisovo

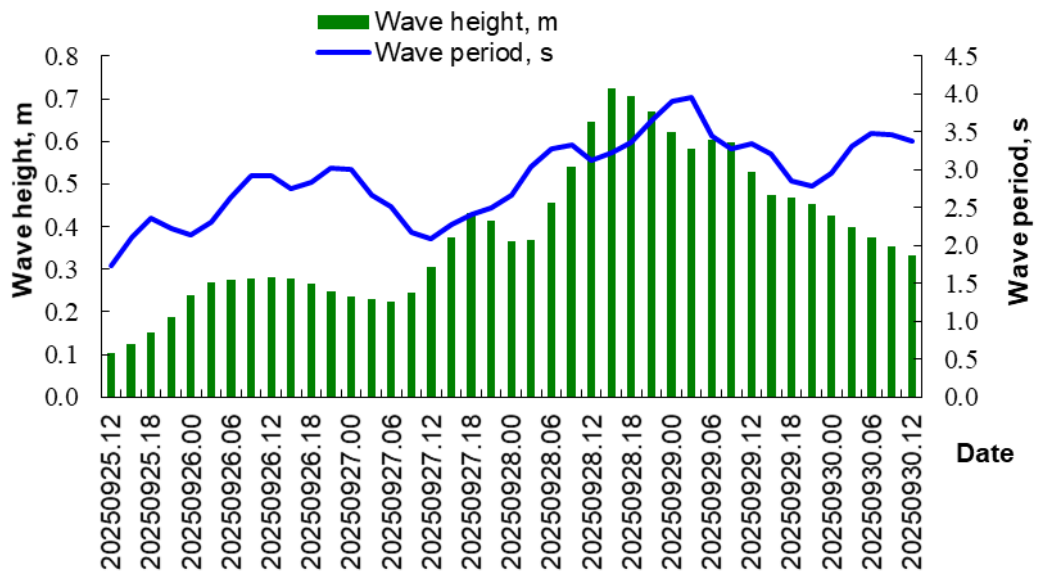


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250925.12	0.10	SW	1.6	1	SW
20250925.15	0.14	SE	1.9	2	N
20250925.18	0.18	SE	2.1	3	N
20250925.21	0.21	SE	2.2	3	N
20250926.00	0.22	SE	2.2	2	NE
20250926.03	0.24	SE	2.3	2	E
20250926.06	0.24	SE	2.4	2	E
20250926.09	0.23	E	2.5	5	S
20250926.12	0.30	W	2.2	8	S
20250926.15	0.36	W	2.3	4	S
20250926.18	0.33	NW	2.5	0	NE
20250926.21	0.30	NW	2.8	2	SW
20250927.00	0.29	NW	2.7	3	S
20250927.03	0.30	NW	2.5	2	S
20250927.06	0.30	NW	2.6	3	NE
20250927.09	0.31	NW	2.5	3	S
20250927.12	0.36	W	2.4	5	S
20250927.15	0.43	W	2.6	5	SE
20250927.18	0.42	W	2.7	5	S
20250927.21	0.40	W	2.6	4	SE
20250928.00	0.38	W	2.7	4	W
20250928.03	0.40	W	2.8	5	SW
20250928.06	0.57	SW	3.2	3	SE
20250928.09	0.72	SW	3.5	5	E
20250928.12	0.69	SW	3.5	5	E
20250928.15	0.59	SW	3.4	4	S
20250928.18	0.59	W	3.4	3	S
20250928.21	0.62	W	3.5	3	SW
20250929.00	0.56	W	3.6	3	SW
20250929.03	0.51	W	3.8	3	SW
20250929.06	0.49	W	3.7	2	SW
20250929.09	0.51	W	3.7	1	SW
20250929.12	0.50	W	3.7	1	SW
20250929.15	0.47	W	3.7	3	SW
20250929.18	0.44	W	3.4	5	S
20250929.21	0.42	W	3.1	4	SW
20250930.00	0.42	W	3.0	2	SW
20250930.03	0.45	W	3.1	2	SW
20250930.06	0.43	SW	3.1	0	N
20250930.09	0.39	SW	3.2	2	W
20250930.12	0.36	SW	3.2	3	NW

Wind condition in the Saura

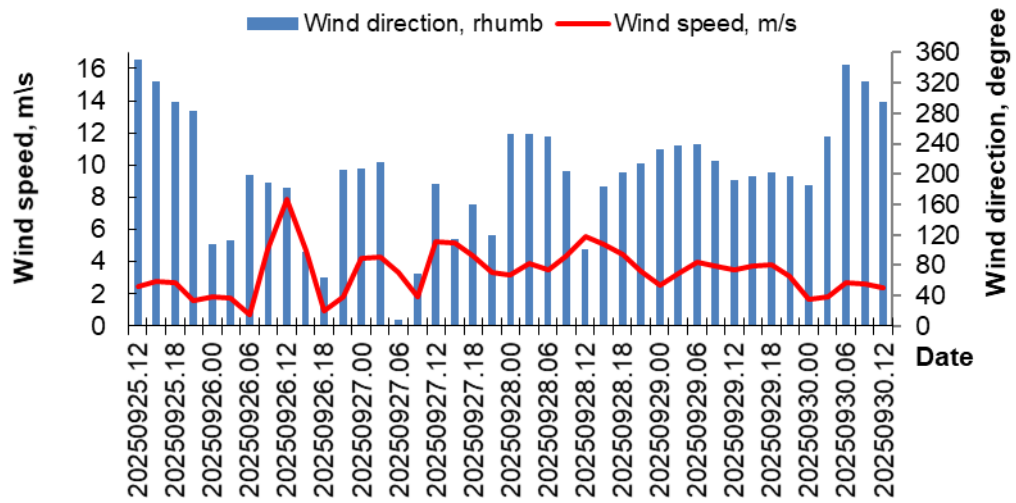


Wave condition in the Saura

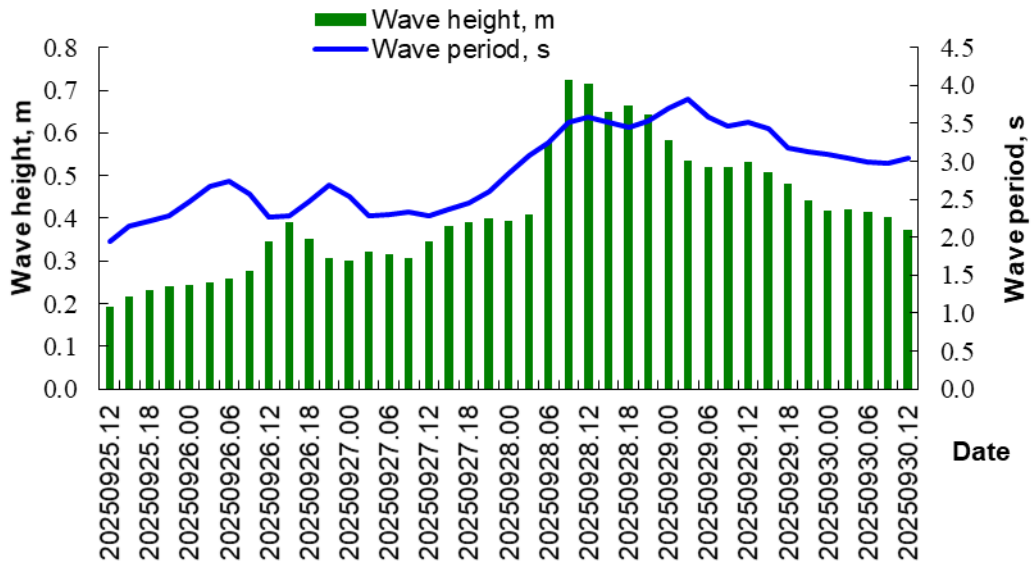


Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250925.12	0.10	N	1.7	1	E
20250925.15	0.13	N	2.1	2	N
20250925.18	0.15	N	2.4	2	W
20250925.21	0.19	N	2.2	3	NW
20250926.00	0.24	NE	2.1	3	NW
20250926.03	0.27	NE	2.3	2	NW
20250926.06	0.28	N	2.6	1	SW
20250926.09	0.28	N	2.9	2	S
20250926.12	0.28	N	2.9	3	E
20250926.15	0.28	N	2.8	3	S
20250926.18	0.27	N	2.8	3	W
20250926.21	0.25	N	3.0	3	W
20250927.00	0.24	N	3.0	3	SE
20250927.03	0.23	N	2.7	3	S
20250927.06	0.23	N	2.5	4	NW
20250927.09	0.24	SW	2.2	5	W
20250927.12	0.31	SW	2.1	5	S
20250927.15	0.37	SW	2.3	6	S
20250927.18	0.43	W	2.4	6	E
20250927.21	0.41	W	2.5	4	S
20250928.00	0.36	SW	2.7	2	W
20250928.03	0.37	SW	3.0	3	N
20250928.06	0.46	SW	3.3	3	NW
20250928.09	0.54	SW	3.3	5	N
20250928.12	0.65	S	3.1	7	W
20250928.15	0.72	S	3.2	6	N
20250928.18	0.71	SW	3.4	4	NE
20250928.21	0.67	SW	3.6	3	NE
20250929.00	0.62	SW	3.9	1	SE
20250929.03	0.58	SW	4.0	4	S
20250929.06	0.61	SW	3.4	6	SW
20250929.09	0.60	SW	3.3	4	SW
20250929.12	0.53	SW	3.3	3	S
20250929.15	0.47	SW	3.2	4	S
20250929.18	0.47	SW	2.9	5	S
20250929.21	0.45	SW	2.8	4	S
20250930.00	0.43	SW	3.0	3	S
20250930.03	0.40	SW	3.3	2	SW
20250930.06	0.38	SW	3.5	1	SW
20250930.09	0.35	SW	3.5	2	NW
20250930.12	0.33	SW	3.4	3	W

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
20250925.12	0.19	S	2.0	2	N
20250925.15	0.22	SE	2.2	3	NW
20250925.18	0.23	SE	2.2	3	NW
20250925.21	0.24	SE	2.3	2	W
20250926.00	0.24	SE	2.5	2	E
20250926.03	0.25	SE	2.7	2	SE
20250926.06	0.26	E	2.7	1	S
20250926.09	0.28	E	2.6	5	S
20250926.12	0.34	NW	2.3	8	S
20250926.15	0.39	W	2.3	5	E
20250926.18	0.35	NW	2.5	1	NE
20250926.21	0.31	NW	2.7	2	SW
20250927.00	0.30	NW	2.5	4	SW
20250927.03	0.32	NW	2.3	4	SW
20250927.06	0.32	W	2.3	3	N
20250927.09	0.31	W	2.3	2	E
20250927.12	0.35	W	2.3	5	S
20250927.15	0.38	W	2.4	5	SE
20250927.18	0.39	W	2.4	4	S
20250927.21	0.40	W	2.6	3	SE
20250928.00	0.39	W	2.8	3	W
20250928.03	0.41	W	3.1	4	W
20250928.06	0.58	SW	3.2	3	W
20250928.09	0.72	SW	3.5	4	SW
20250928.12	0.72	SW	3.6	6	E
20250928.15	0.65	SW	3.5	5	S
20250928.18	0.67	SW	3.5	4	SW
20250928.21	0.64	SW	3.5	3	SW
20250929.00	0.58	SW	3.7	3	SW
20250929.03	0.54	SW	3.8	3	SW
20250929.06	0.52	SW	3.6	4	SW
20250929.09	0.52	SW	3.5	4	SW
20250929.12	0.53	SW	3.5	3	S
20250929.15	0.51	SW	3.4	4	S
20250929.18	0.48	SW	3.2	4	SW
20250929.21	0.44	SW	3.1	3	S
20250930.00	0.42	SW	3.1	2	S
20250930.03	0.42	SW	3.0	2	W
20250930.06	0.42	SW	3.0	3	N
20250930.09	0.40	SW	3.0	3	NW
20250930.12	0.37	SW	3.0	2	NW

**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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