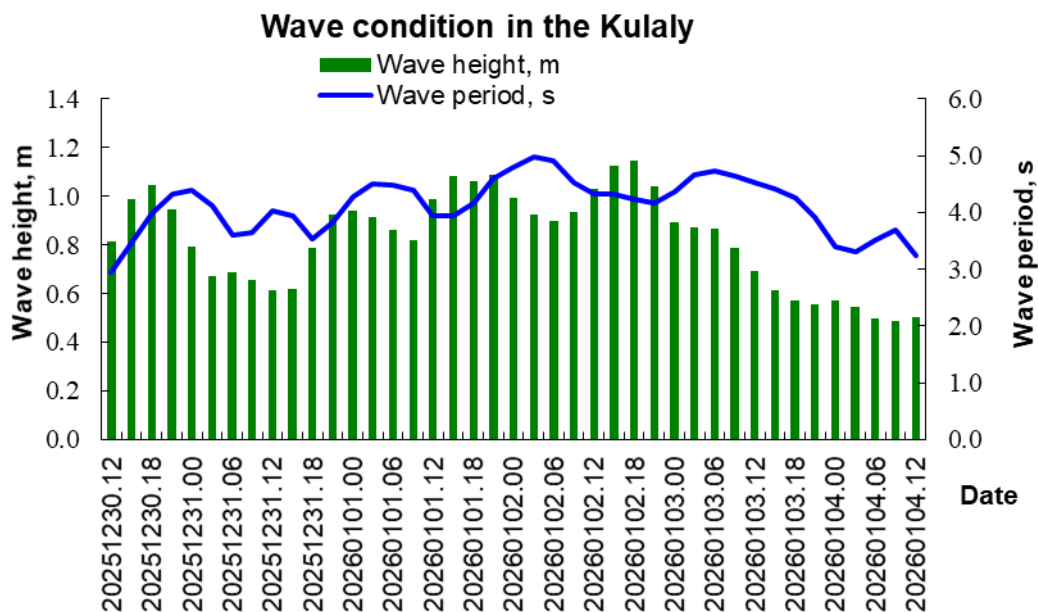
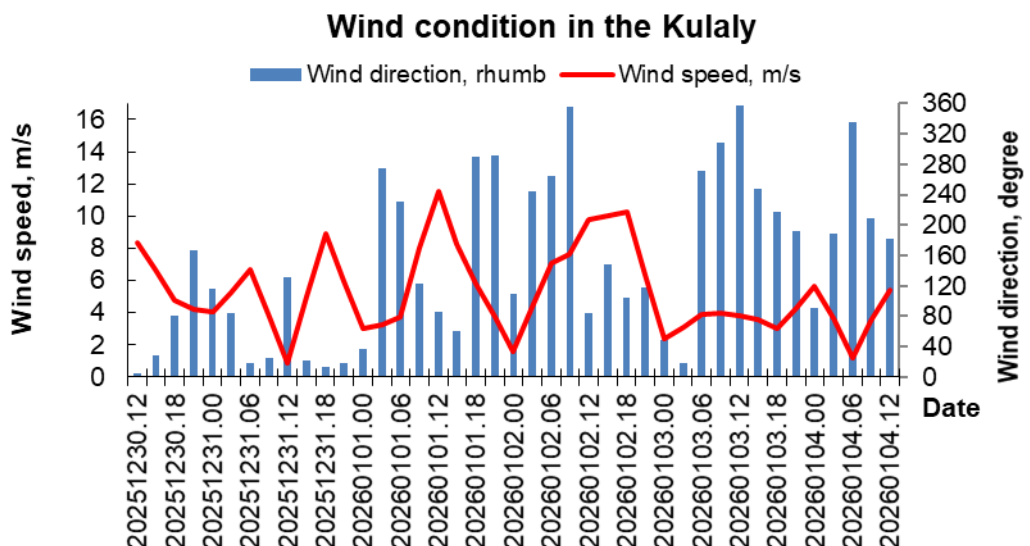




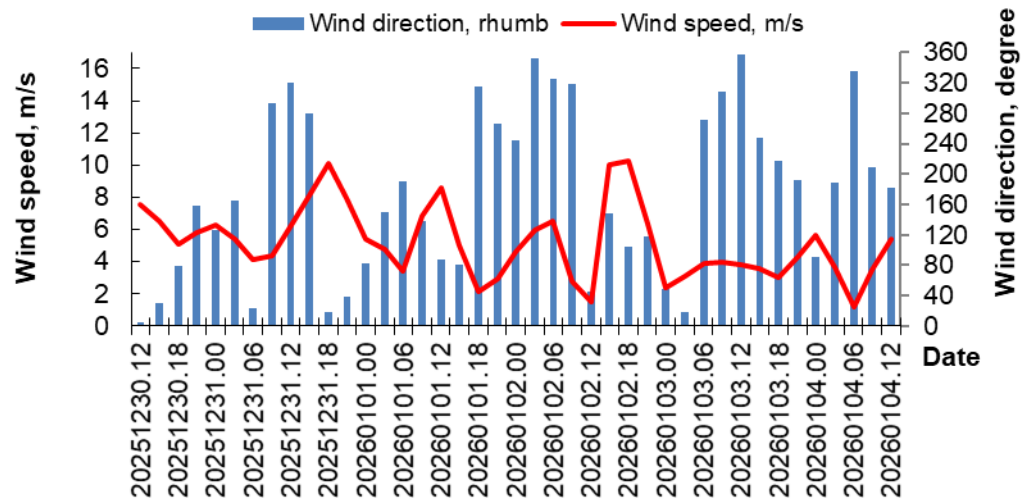
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period December 30, 2025 – January 04, 2026 .**

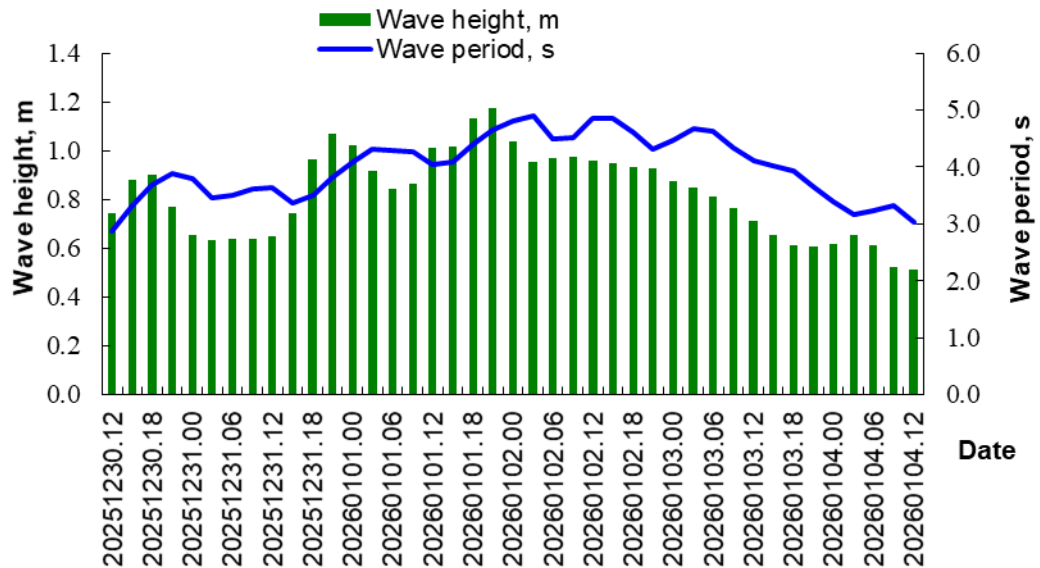


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251230.12	0.81	E	3.0	8	N
20251230.15	0.99	E	3.5	7	NE
20251230.18	1.05	NE	4.0	5	E
20251230.21	0.95	NE	4.3	4	S
20251231.00	0.79	NE	4.4	4	SE
20251231.03	0.67	NE	4.1	5	E
20251231.06	0.69	NE	3.6	7	N
20251231.09	0.65	NE	3.6	4	NE
20251231.12	0.61	NE	4.0	1	SE
20251231.15	0.62	E	4.0	5	N
20251231.18	0.79	E	3.5	9	N
20251231.21	0.92	E	3.8	6	N
20260101.00	0.94	E	4.3	3	NE
20260101.03	0.92	NE	4.5	3	W
20260101.06	0.86	NE	4.5	4	SW
20260101.09	0.82	NE	4.4	8	SE
20260101.12	0.99	NE	4.0	12	E
20260101.15	1.08	NE	3.9	8	NE
20260101.18	1.06	NE	4.2	6	W
20260101.21	1.09	E	4.6	4	W
20260102.00	0.99	E	4.8	2	E
20260102.03	0.93	E	5.0	4	SW
20260102.06	0.90	E	4.9	7	W
20260102.09	0.93	E	4.5	8	N
20260102.12	1.03	NE	4.3	10	E
20260102.15	1.12	NE	4.3	10	SE
20260102.18	1.15	N	4.2	10	E
20260102.21	1.04	N	4.2	6	SE
20260103.00	0.89	NE	4.4	2	NE
20260103.03	0.87	NE	4.7	3	N
20260103.06	0.87	NE	4.7	4	W
20260103.09	0.79	NE	4.7	4	NW
20260103.12	0.69	NE	4.5	4	N
20260103.15	0.62	NE	4.4	4	SW
20260103.18	0.57	NE	4.3	3	SW
20260103.21	0.56	NE	3.9	4	S
20260104.00	0.57	NE	3.4	6	E
20260104.03	0.55	NE	3.3	4	S
20260104.06	0.50	E	3.5	1	NW
20260104.09	0.49	E	3.7	3	SW
20260104.12	0.50	E	3.2	5	S

Wind condition in the Fort-Shevchenko

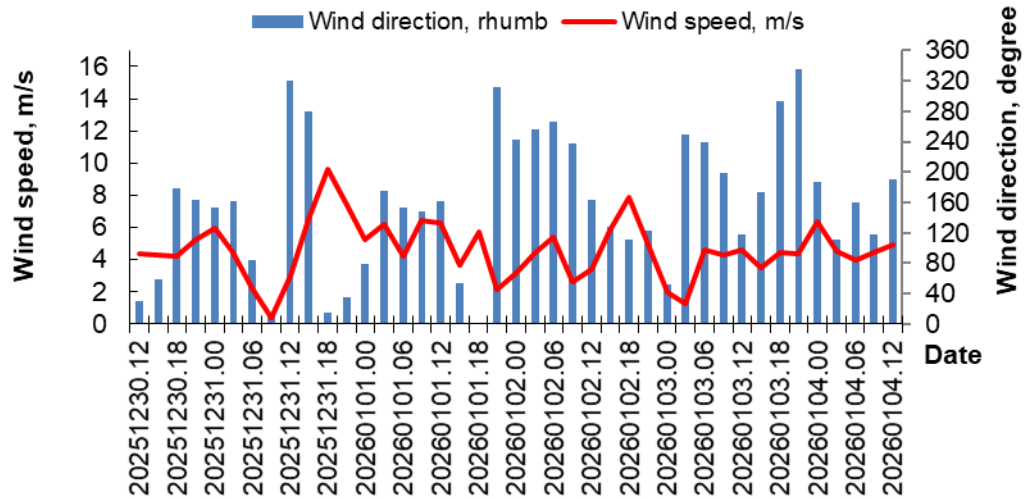


Wave condition in the Fort-Shevchenko

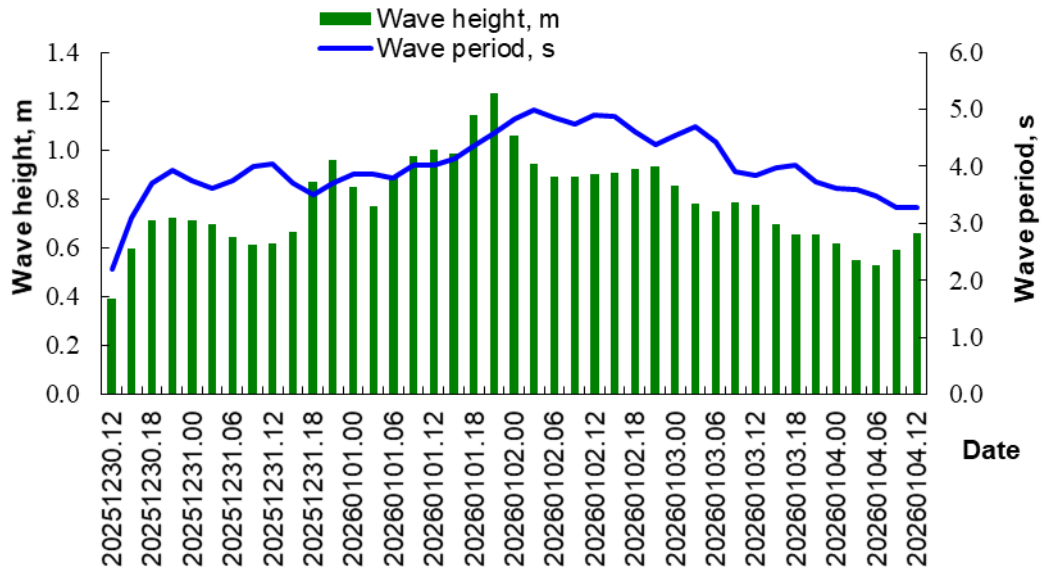


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251230.12	0.74	E	2.9	8	N
20251230.15	0.88	E	3.3	6	NE
20251230.18	0.90	NE	3.7	5	E
20251230.21	0.77	NE	3.9	6	S
20251231.00	0.65	NE	3.8	6	SE
20251231.03	0.63	NE	3.5	5	S
20251231.06	0.64	NE	3.5	4	NE
20251231.09	0.64	NE	3.6	4	NW
20251231.12	0.65	E	3.6	6	NW
20251231.15	0.74	E	3.4	8	W
20251231.18	0.96	E	3.5	10	N
20251231.21	1.07	E	3.8	8	NE
20260101.00	1.02	NE	4.1	5	E
20260101.03	0.92	NE	4.3	5	SE
20260101.06	0.85	NE	4.3	3	S
20260101.09	0.86	NE	4.3	7	SE
20260101.12	1.01	NE	4.0	9	E
20260101.15	1.02	NE	4.1	5	E
20260101.18	1.13	NE	4.4	2	NW
20260101.21	1.18	E	4.6	3	W
20260102.00	1.04	E	4.8	5	SW
20260102.03	0.95	E	4.9	6	N
20260102.06	0.97	E	4.5	7	NW
20260102.09	0.97	E	4.5	3	NW
20260102.12	0.96	NE	4.9	2	NE
20260102.15	0.95	NE	4.9	10	SE
20260102.18	0.93	NE	4.6	10	E
20260102.21	0.93	NE	4.3	6	SE
20260103.00	0.87	NE	4.5	2	NE
20260103.03	0.85	NE	4.7	3	N
20260103.06	0.81	NE	4.6	4	W
20260103.09	0.76	NE	4.3	4	NW
20260103.12	0.71	NE	4.1	4	N
20260103.15	0.65	NE	4.0	4	SW
20260103.18	0.61	NE	3.9	3	SW
20260103.21	0.61	E	3.7	4	S
20260104.00	0.62	E	3.4	6	E
20260104.03	0.66	W	3.2	4	S
20260104.06	0.61	SW	3.2	1	NW
20260104.09	0.52	SE	3.3	3	SW
20260104.12	0.51	S	3.0	5	S

Wind condition in the Aktau

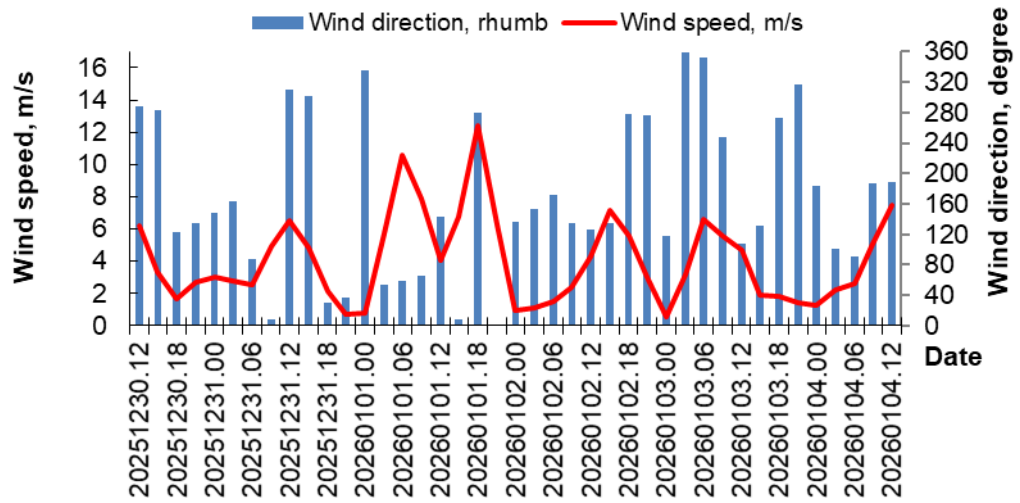


Wave condition in the Aktau

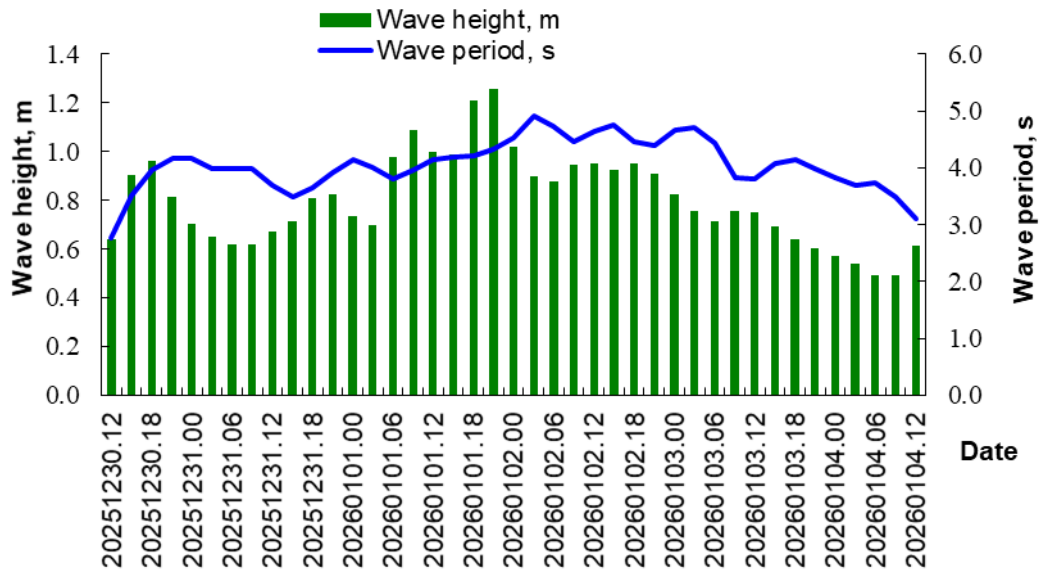


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20251230.12	0.39	NE	2.2	4	NE
20251230.15	0.60	E	3.1	4	NE
20251230.18	0.71	E	3.7	4	S
20251230.21	0.72	E	3.9	5	S
20251231.00	0.71	E	3.7	6	SE
20251231.03	0.70	NE	3.6	4	S
20251231.06	0.64	NE	3.8	2	E
20251231.09	0.61	NE	4.0	0	N
20251231.12	0.62	NE	4.0	3	NW
20251231.15	0.66	E	3.7	6	W
20251231.18	0.87	E	3.5	10	N
20251231.21	0.96	E	3.7	7	NE
20260101.00	0.85	NE	3.9	5	E
20260101.03	0.77	NE	3.9	6	S
20260101.06	0.89	NE	3.8	4	SE
20260101.09	0.97	NE	4.0	6	SE
20260101.12	1.00	NE	4.0	6	S
20260101.15	0.99	NE	4.1	4	NE
20260101.18	1.14	NE	4.4	6	N
20260101.21	1.23	NE	4.6	2	NW
20260102.00	1.06	NE	4.8	3	SW
20260102.03	0.94	NE	5.0	4	W
20260102.06	0.89	NE	4.9	5	W
20260102.09	0.89	NE	4.8	3	SW
20260102.12	0.90	NE	4.9	3	S
20260102.15	0.91	NE	4.9	6	SE
20260102.18	0.92	NE	4.6	8	E
20260102.21	0.93	NE	4.4	5	SE
20260103.00	0.86	NE	4.5	2	NE
20260103.03	0.78	NE	4.7	1	W
20260103.06	0.75	NE	4.4	5	SW
20260103.09	0.79	NE	3.9	4	S
20260103.12	0.77	N	3.8	5	SE
20260103.15	0.70	N	4.0	4	S
20260103.18	0.65	NE	4.0	4	NW
20260103.21	0.65	E	3.7	4	NW
20260104.00	0.62	E	3.6	6	S
20260104.03	0.55	NE	3.6	5	E
20260104.06	0.53	N	3.5	4	S
20260104.09	0.59	NW	3.3	4	SE
20260104.12	0.66	NW	3.3	5	S

Wind condition in the Peschanyi

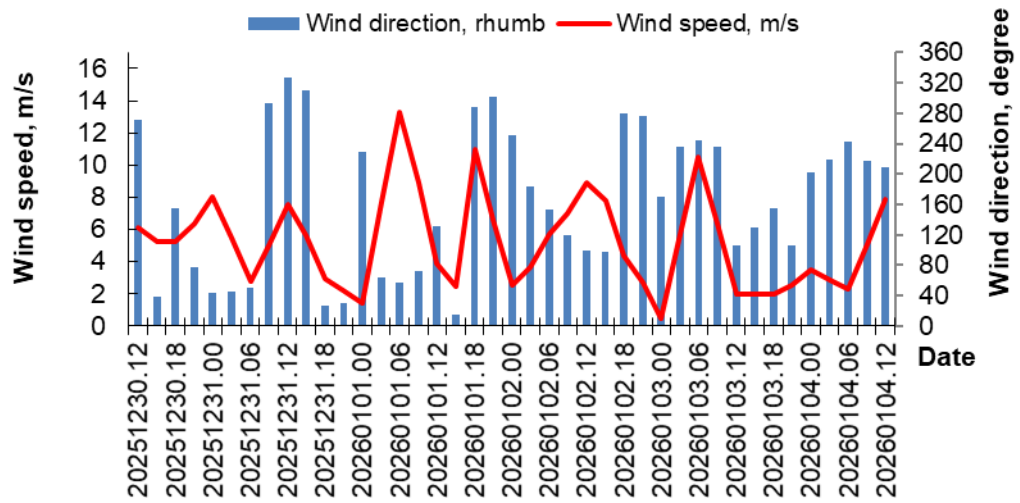


Wave condition in the Peschanyi

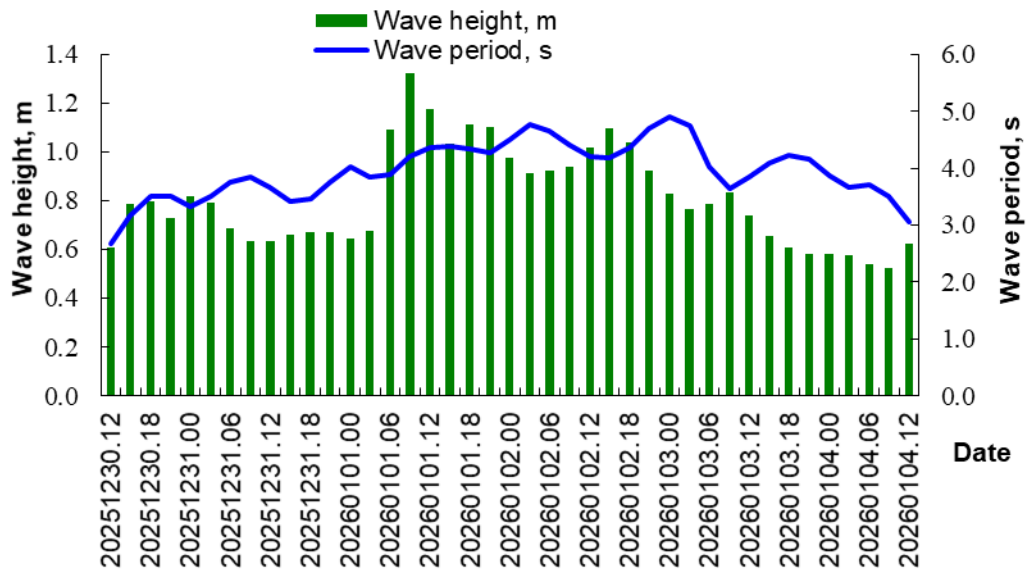


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251230.12	0.64	E	2.8	6	W
20251230.15	0.90	E	3.5	3	W
20251230.18	0.96	E	4.0	2	SE
20251230.21	0.82	E	4.2	3	SE
20251231.00	0.70	E	4.2	3	SE
20251231.03	0.65	E	4.0	3	S
20251231.06	0.62	NE	4.0	3	E
20251231.09	0.62	NE	4.0	5	N
20251231.12	0.67	E	3.7	7	NW
20251231.15	0.71	E	3.5	5	NW
20251231.18	0.81	E	3.7	2	NE
20251231.21	0.82	E	3.9	1	NE
20260101.00	0.74	E	4.1	1	NW
20260101.03	0.70	NE	4.0	6	NE
20260101.06	0.98	NE	3.8	11	NE
20260101.09	1.09	NE	4.0	8	NE
20260101.12	1.00	NE	4.1	4	SE
20260101.15	0.99	NE	4.2	7	N
20260101.18	1.21	NE	4.2	12	W
20260101.21	1.26	NE	4.3	6	N
20260102.00	1.02	NE	4.5	1	SE
20260102.03	0.90	NE	4.9	1	SE
20260102.06	0.88	NE	4.7	2	S
20260102.09	0.94	E	4.5	2	SE
20260102.12	0.95	NE	4.6	4	SE
20260102.15	0.93	NE	4.7	7	SE
20260102.18	0.95	NE	4.5	6	W
20260102.21	0.91	NE	4.4	3	W
20260103.00	0.83	NE	4.7	1	SE
20260103.03	0.76	NE	4.7	3	N
20260103.06	0.72	NE	4.4	7	N
20260103.09	0.76	E	3.8	6	W
20260103.12	0.75	E	3.8	5	E
20260103.15	0.69	NE	4.1	2	SE
20260103.18	0.64	NE	4.2	2	W
20260103.21	0.60	NE	4.0	1	NW
20260104.00	0.57	E	3.8	1	S
20260104.03	0.54	NE	3.7	2	E
20260104.06	0.49	NE	3.7	3	E
20260104.09	0.49	NW	3.5	5	S
20260104.12	0.62	W	3.1	8	S

Wind condition in the Fetisovo

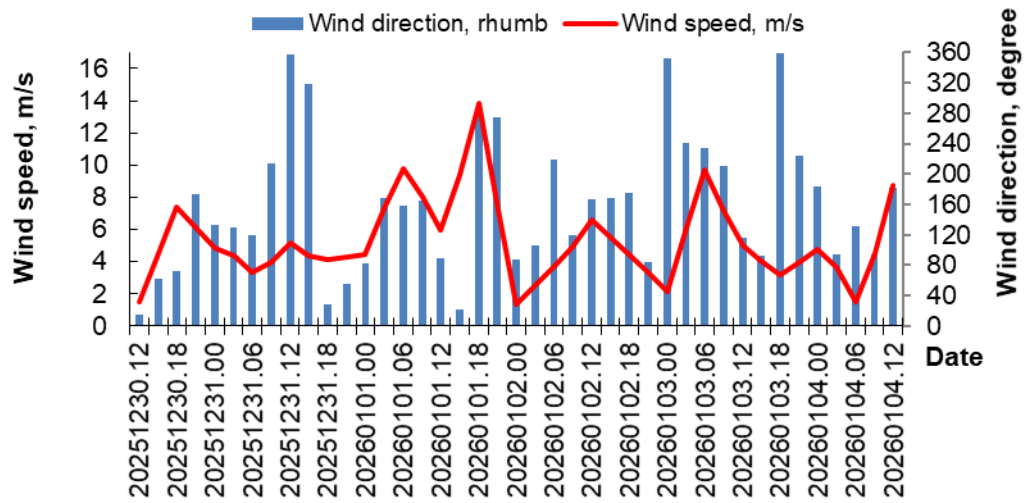


Wave condition in the Fetisovo

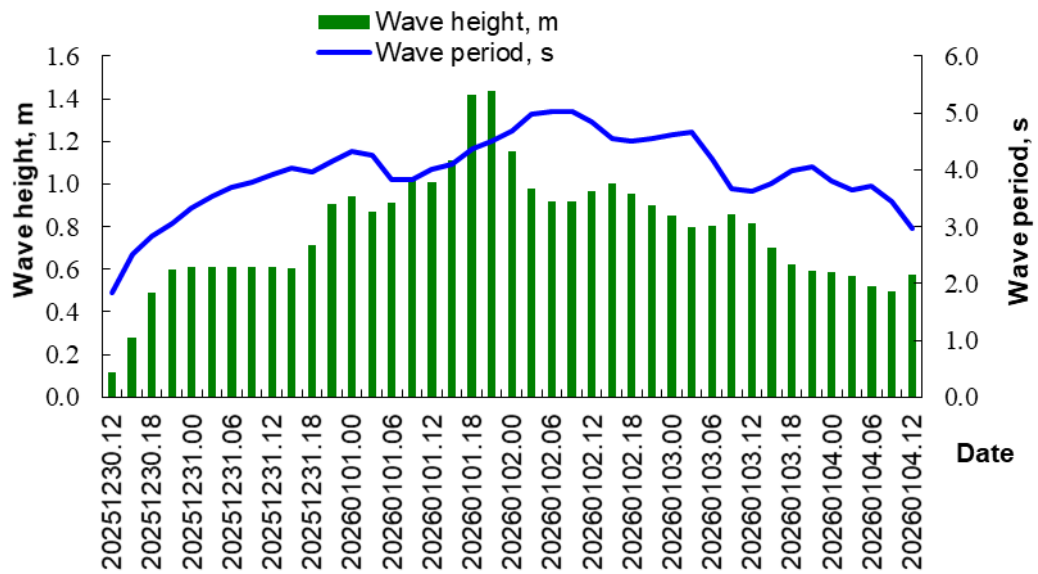


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251230.12	0.61	E	2.7	6	W
20251230.15	0.78	E	3.2	5	NE
20251230.18	0.80	E	3.5	5	SE
20251230.21	0.73	E	3.5	6	E
20251231.00	0.82	NE	3.3	8	NE
20251231.03	0.79	NE	3.5	5	NE
20251231.06	0.69	NE	3.7	3	NE
20251231.09	0.63	NE	3.8	5	NW
20251231.12	0.64	NE	3.7	8	NW
20251231.15	0.66	E	3.4	6	NW
20251231.18	0.67	E	3.5	3	NE
20251231.21	0.67	E	3.8	2	NE
20260101.00	0.64	NE	4.0	1	SW
20260101.03	0.68	NE	3.9	8	NE
20260101.06	1.09	NE	3.9	13	NE
20260101.09	1.32	NE	4.2	9	E
20260101.12	1.18	NE	4.4	4	SE
20260101.15	1.03	NE	4.4	2	N
20260101.18	1.11	NE	4.3	11	W
20260101.21	1.10	NE	4.3	7	NW
20260102.00	0.97	NE	4.5	3	W
20260102.03	0.91	NE	4.8	4	S
20260102.06	0.92	NE	4.7	6	SE
20260102.09	0.94	NE	4.4	7	SE
20260102.12	1.02	NE	4.2	9	E
20260102.15	1.09	NE	4.2	8	E
20260102.18	1.04	NE	4.4	4	W
20260102.21	0.92	NE	4.7	3	W
20260103.00	0.83	NE	4.9	0	S
20260103.03	0.76	NE	4.7	6	SW
20260103.06	0.78	NE	4.0	11	SW
20260103.09	0.83	NW	3.7	6	SW
20260103.12	0.74	NW	3.8	2	E
20260103.15	0.66	N	4.1	2	SE
20260103.18	0.61	N	4.2	2	SE
20260103.21	0.58	NE	4.1	3	E
20260104.00	0.58	NE	3.9	3	S
20260104.03	0.58	N	3.7	3	SW
20260104.06	0.54	N	3.7	2	SW
20260104.09	0.52	NW	3.5	5	SW
20260104.12	0.62	W	3.1	8	SW

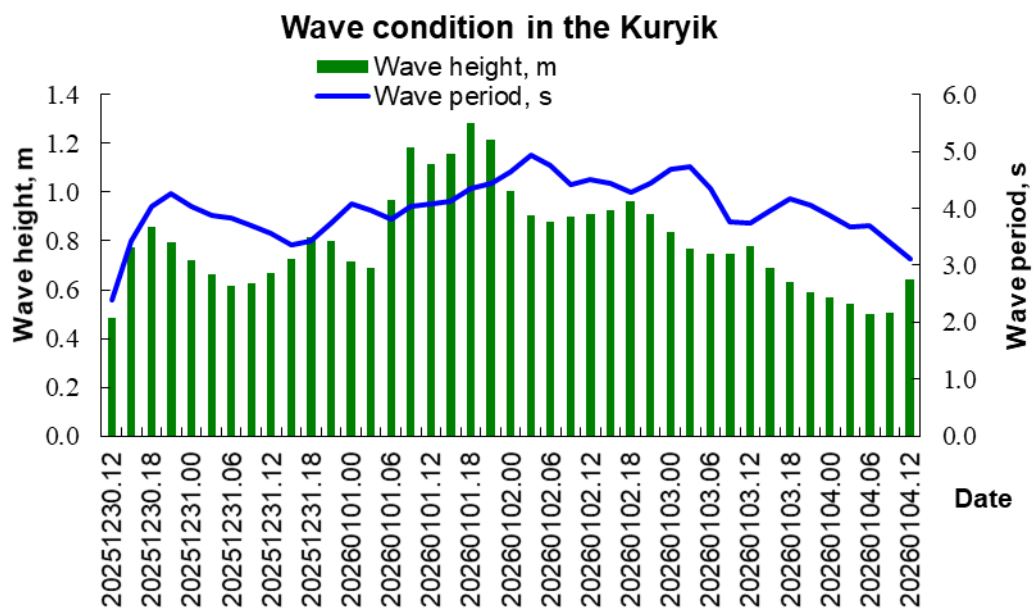
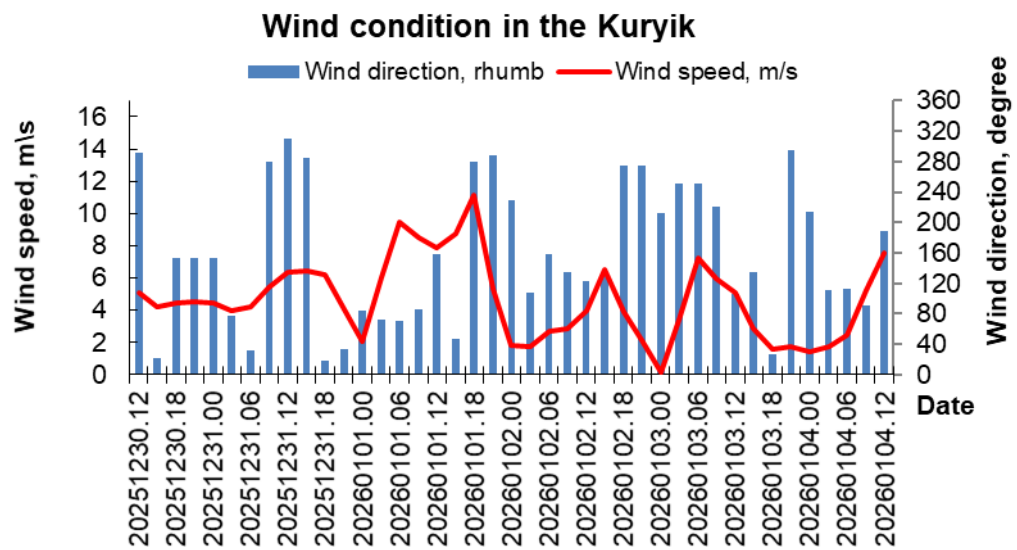
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251230.12	0.12	NE	1.8	2	N
20251230.15	0.28	NE	2.5	5	NE
20251230.18	0.49	NE	2.8	7	E
20251230.21	0.60	NE	3.1	6	S
20251231.00	0.61	NE	3.3	5	SE
20251231.03	0.61	E	3.5	4	SE
20251231.06	0.61	NE	3.7	3	SE
20251231.09	0.61	NE	3.8	4	SW
20251231.12	0.61	NE	3.9	5	N
20251231.15	0.61	E	4.0	4	NW
20251231.18	0.71	E	4.0	4	NE
20251231.21	0.91	E	4.1	4	NE
20260101.00	0.94	NE	4.3	4	E
20260101.03	0.87	NE	4.2	7	S
20260101.06	0.91	NE	3.8	10	S
20260101.09	1.03	NE	3.8	8	S
20260101.12	1.01	NE	4.0	6	E
20260101.15	1.11	NE	4.1	9	N
20260101.18	1.42	NE	4.4	14	W
20260101.21	1.44	E	4.5	8	W
20260102.00	1.15	E	4.7	1	E
20260102.03	0.98	NE	5.0	3	E
20260102.06	0.92	NE	5.0	4	SW
20260102.09	0.92	NE	5.0	5	SE
20260102.12	0.97	NE	4.8	7	S
20260102.15	1.00	NE	4.6	5	S
20260102.18	0.95	NE	4.5	4	S
20260102.21	0.90	NE	4.5	3	E
20260103.00	0.85	NE	4.6	2	N
20260103.03	0.80	NE	4.7	6	SW
20260103.06	0.80	NE	4.2	10	SW
20260103.09	0.86	NW	3.7	7	SW
20260103.12	0.81	NW	3.6	5	SE
20260103.15	0.70	N	3.8	4	E
20260103.18	0.62	NE	4.0	3	N
20260103.21	0.59	E	4.0	4	SW
20260104.00	0.59	E	3.8	5	S
20260104.03	0.57	E	3.6	4	E
20260104.06	0.52	E	3.7	2	SE
20260104.09	0.49	NE	3.5	5	E
20260104.12	0.58	W	3.0	9	S



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251230.12	0.48	SE	2.4	5	W
20251230.15	0.77	E	3.4	4	N
20251230.18	0.86	E	4.0	4	SE
20251230.21	0.80	E	4.3	5	SE
20251231.00	0.72	E	4.0	4	SE
20251231.03	0.66	NE	3.9	4	E
20251231.06	0.62	NE	3.8	4	NE
20251231.09	0.63	NE	3.7	5	W
20251231.12	0.67	E	3.6	6	NW
20251231.15	0.73	E	3.4	6	W
20251231.18	0.82	E	3.4	6	N
20251231.21	0.80	E	3.8	4	NE
20260101.00	0.72	E	4.1	2	E
20260101.03	0.69	NE	4.0	6	E
20260101.06	0.97	NE	3.8	9	E
20260101.09	1.18	NE	4.0	9	E
20260101.12	1.11	NE	4.1	8	S
20260101.15	1.16	NE	4.1	9	NE
20260101.18	1.28	NE	4.3	11	W
20260101.21	1.21	NE	4.4	5	W
20260102.00	1.00	NE	4.7	2	SW
20260102.03	0.90	NE	4.9	2	E
20260102.06	0.88	NE	4.8	3	SE
20260102.09	0.90	NE	4.4	3	SE
20260102.12	0.91	NE	4.5	4	SE
20260102.15	0.93	NE	4.4	6	SE
20260102.18	0.96	NE	4.3	4	W
20260102.21	0.91	NE	4.4	2	W
20260103.00	0.84	NE	4.7	0	SW
20260103.03	0.77	NE	4.7	3	W
20260103.06	0.75	NE	4.4	7	W
20260103.09	0.75	NE	3.8	6	SW
20260103.12	0.78	N	3.7	5	E
20260103.15	0.69	N	4.0	3	SE
20260103.18	0.63	NE	4.2	2	NE
20260103.21	0.59	NE	4.1	2	NW
20260104.00	0.57	NE	3.9	1	SW
20260104.03	0.54	NE	3.7	2	E
20260104.06	0.50	NE	3.7	2	SE
20260104.09	0.50	NW	3.4	5	E
20260104.12	0.64	W	3.1	8	S

**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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