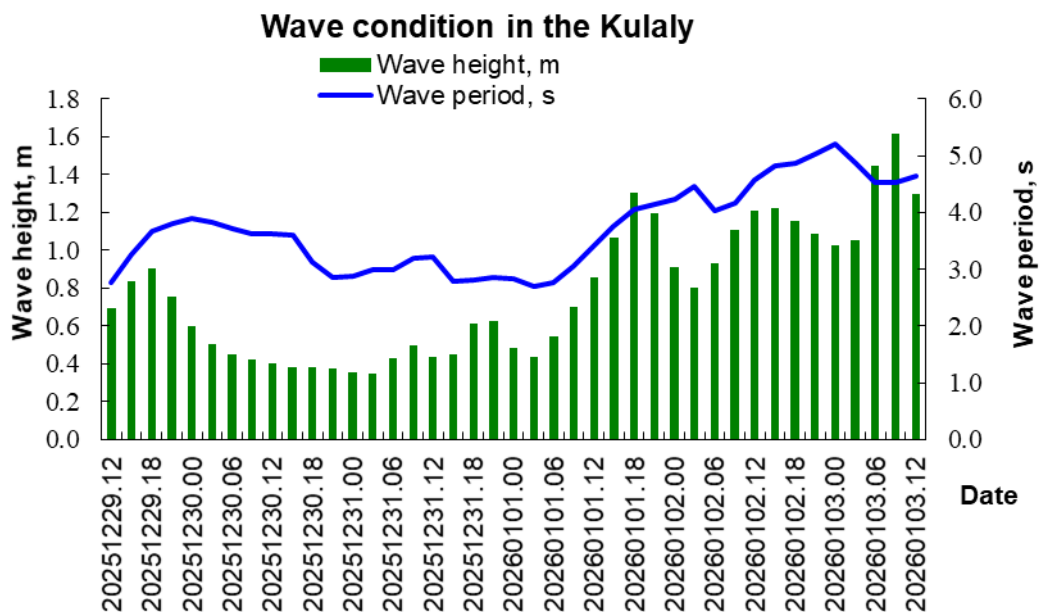
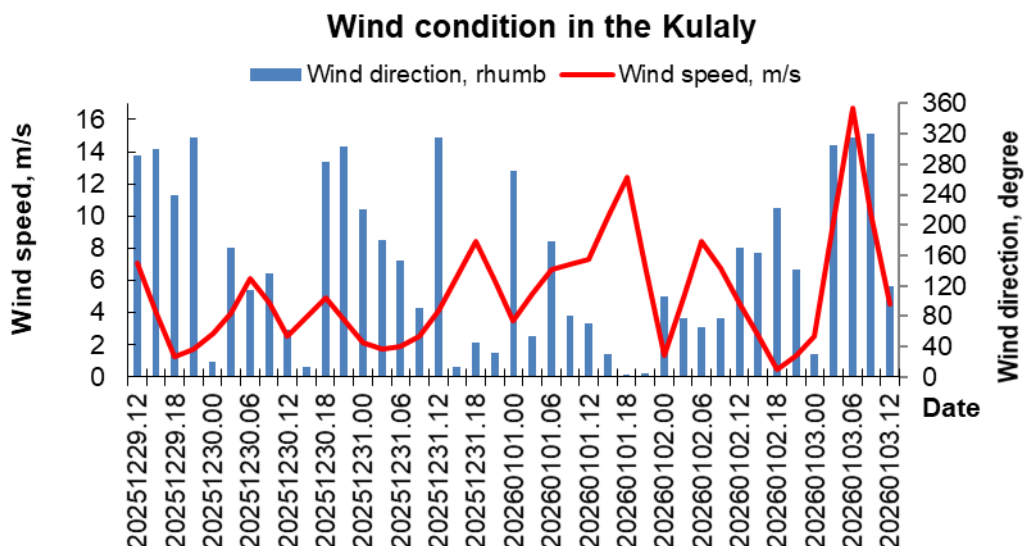




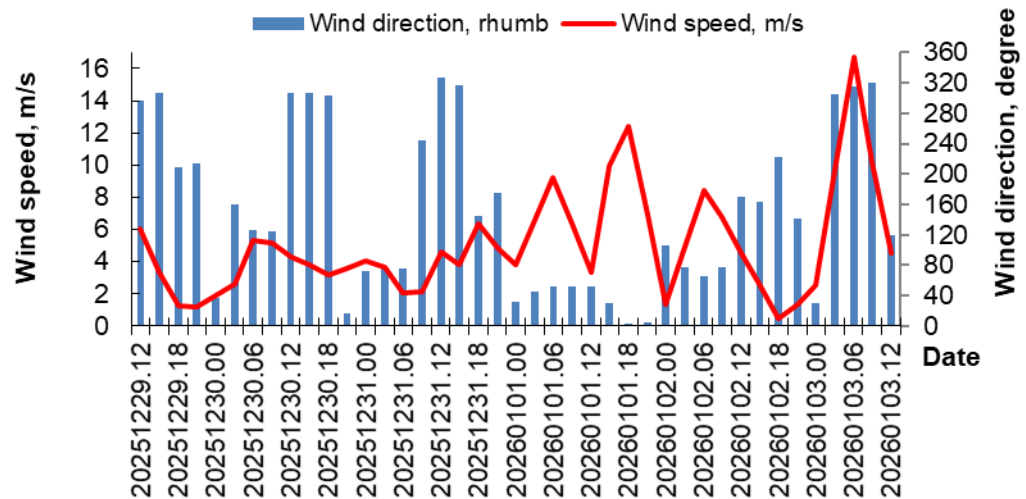
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 03, 2026 .**

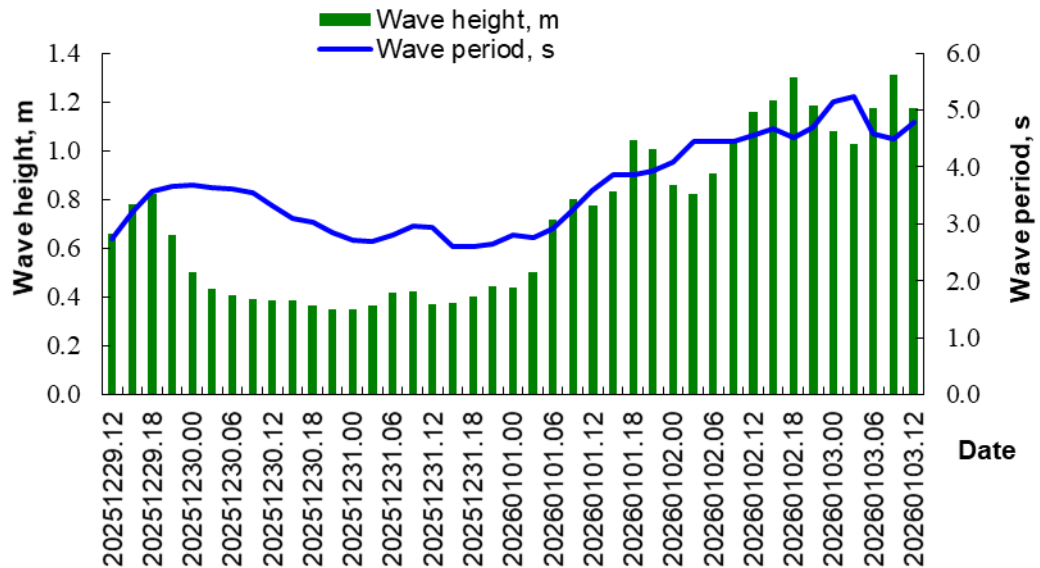


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251229.12	0.69	SE	2.8	7	W
20251229.15	0.83	SE	3.3	4	NW
20251229.18	0.90	SE	3.7	1	SW
20251229.21	0.76	SE	3.8	2	NW
20251230.00	0.60	SE	3.9	3	N
20251230.03	0.50	SE	3.8	4	S
20251230.06	0.45	SE	3.7	6	SE
20251230.09	0.42	SE	3.6	5	SE
20251230.12	0.40	SE	3.6	3	NE
20251230.15	0.38	SE	3.6	4	N
20251230.18	0.38	E	3.1	5	W
20251230.21	0.37	E	2.9	4	NW
20251231.00	0.35	SE	2.9	2	SW
20251231.03	0.35	E	3.0	2	S
20251231.06	0.43	E	3.0	2	SE
20251231.09	0.49	E	3.2	3	E
20251231.12	0.44	E	3.2	4	NW
20251231.15	0.45	E	2.8	6	N
20251231.18	0.61	E	2.8	8	NE
20251231.21	0.62	NE	2.9	6	NE
20260101.00	0.49	NE	2.8	4	W
20260101.03	0.44	NE	2.7	5	NE
20260101.06	0.54	NE	2.8	7	S
20260101.09	0.70	NE	3.1	7	E
20260101.12	0.86	NE	3.4	7	E
20260101.15	1.07	NE	3.8	10	NE
20260101.18	1.30	NE	4.1	12	N
20260101.21	1.19	E	4.1	7	N
20260102.00	0.91	E	4.2	1	E
20260102.03	0.80	E	4.5	5	E
20260102.06	0.93	NE	4.0	8	NE
20260102.09	1.11	NE	4.2	7	E
20260102.12	1.21	NE	4.6	5	S
20260102.15	1.22	NE	4.8	3	S
20260102.18	1.16	NE	4.9	1	SW
20260102.21	1.09	NE	5.0	1	SE
20260103.00	1.03	E	5.2	3	NE
20260103.03	1.05	E	4.9	10	NW
20260103.06	1.45	E	4.5	17	NW
20260103.09	1.62	E	4.5	10	NW
20260103.12	1.30	E	4.6	5	SE

Wind condition in the Fort-Shevchenko

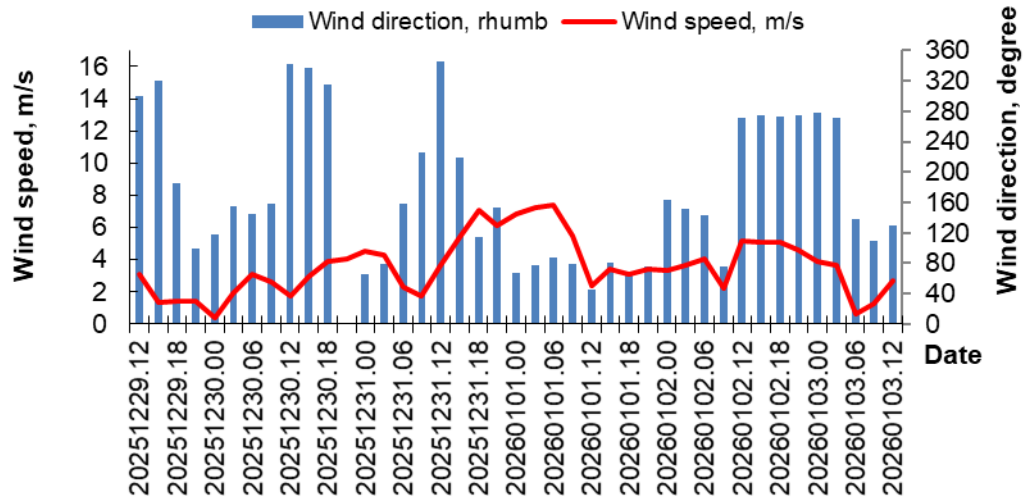


Wave condition in the Fort-Shevchenko

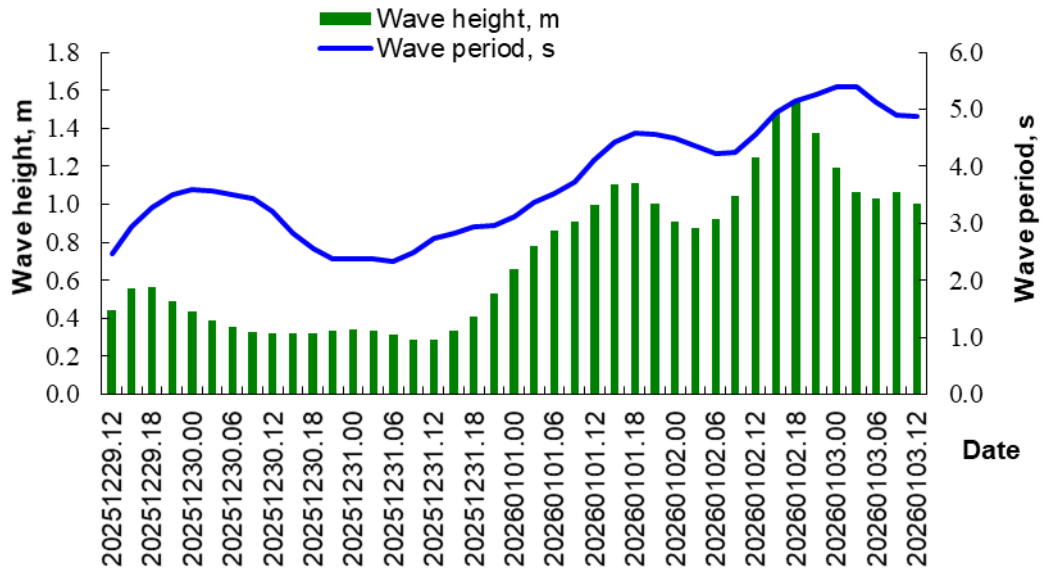


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251229.12	0.66	SE	2.7	6	NW
20251229.15	0.78	SE	3.2	3	NW
20251229.18	0.82	SE	3.6	1	SW
20251229.21	0.66	SE	3.7	1	SW
20251230.00	0.50	SE	3.7	2	NE
20251230.03	0.43	SE	3.6	3	S
20251230.06	0.41	SE	3.6	5	SE
20251230.09	0.39	SE	3.6	5	SE
20251230.12	0.39	SE	3.3	4	NW
20251230.15	0.39	SE	3.1	4	NW
20251230.18	0.37	SE	3.0	3	NW
20251230.21	0.35	E	2.9	4	N
20251231.00	0.35	E	2.7	4	E
20251231.03	0.37	E	2.7	4	E
20251231.06	0.42	E	2.8	2	E
20251231.09	0.42	E	3.0	2	SW
20251231.12	0.37	E	2.9	5	NW
20251231.15	0.38	E	2.6	4	NW
20251231.18	0.40	E	2.6	6	SE
20251231.21	0.44	NE	2.6	5	S
20260101.00	0.44	NE	2.8	4	NE
20260101.03	0.50	NE	2.7	7	NE
20260101.06	0.72	NE	2.9	9	NE
20260101.09	0.80	NE	3.3	6	NE
20260101.12	0.78	NE	3.6	3	NE
20260101.15	0.83	NE	3.9	10	NE
20260101.18	1.04	E	3.9	12	N
20260101.21	1.00	E	3.9	7	N
20260102.00	0.86	E	4.1	1	E
20260102.03	0.82	NE	4.5	5	E
20260102.06	0.91	NE	4.4	8	NE
20260102.09	1.05	NE	4.4	7	E
20260102.12	1.16	NE	4.6	5	S
20260102.15	1.21	NE	4.7	3	S
20260102.18	1.30	NE	4.5	1	SW
20260102.21	1.19	E	4.7	1	SE
20260103.00	1.08	E	5.1	3	NE
20260103.03	1.03	E	5.2	10	NW
20260103.06	1.18	E	4.6	17	NW
20260103.09	1.31	E	4.5	10	NW
20260103.12	1.17	E	4.8	5	SE

Wind condition in the Aktau

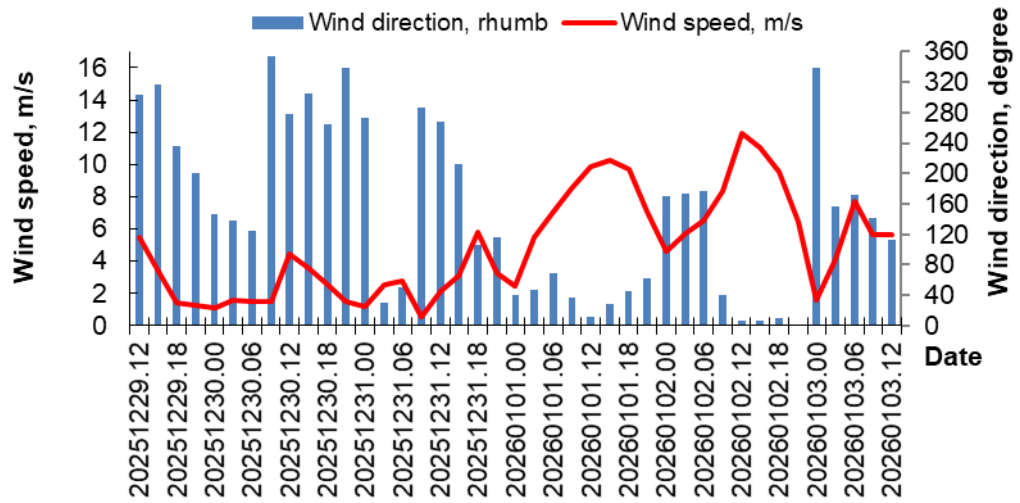


Wave condition in the Aktau

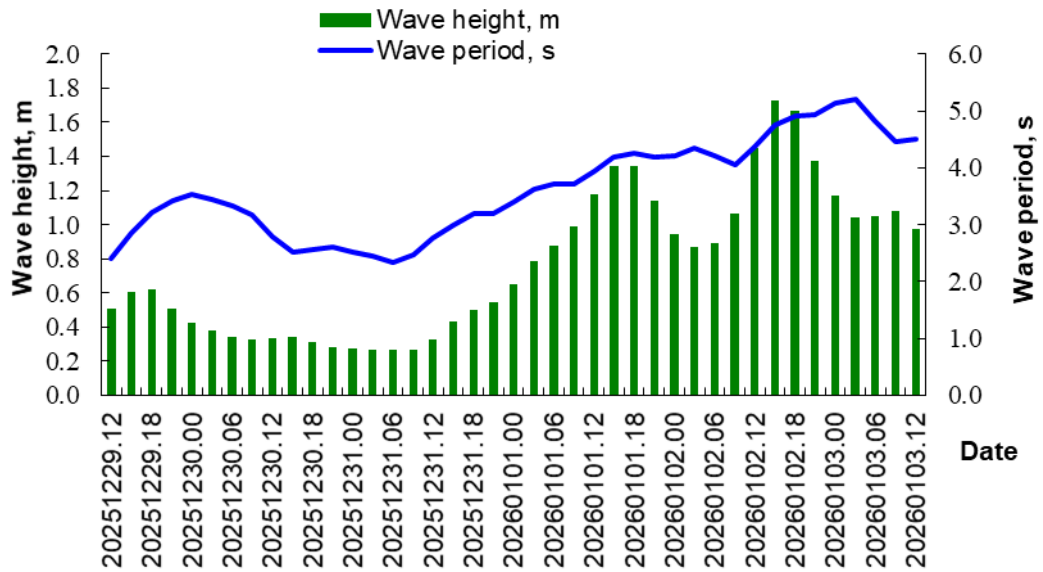


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20251229.12	0.44	SE	2.5	3	NW
20251229.15	0.55	SE	2.9	1	NW
20251229.18	0.56	SE	3.3	1	S
20251229.21	0.49	SE	3.5	1	E
20251230.00	0.43	SE	3.6	0	SE
20251230.03	0.39	SE	3.6	2	SE
20251230.06	0.35	SE	3.5	3	SE
20251230.09	0.33	SE	3.4	3	S
20251230.12	0.32	E	3.2	2	N
20251230.15	0.32	E	2.8	3	NW
20251230.18	0.32	E	2.6	4	NW
20251230.21	0.33	E	2.4	4	N
20251231.00	0.34	E	2.4	5	NE
20251231.03	0.33	NE	2.4	4	E
20251231.06	0.31	NE	2.3	2	S
20251231.09	0.29	NE	2.5	2	SW
20251231.12	0.29	E	2.7	4	N
20251231.15	0.33	E	2.8	5	SW
20251231.18	0.41	E	2.9	7	SE
20251231.21	0.53	NE	3.0	6	SE
20260101.00	0.66	NE	3.1	7	NE
20260101.03	0.78	NE	3.4	7	E
20260101.06	0.86	NE	3.5	7	E
20260101.09	0.91	NE	3.7	5	E
20260101.12	1.00	NE	4.1	2	NE
20260101.15	1.11	NE	4.4	3	E
20260101.18	1.11	NE	4.6	3	NE
20260101.21	1.01	NE	4.6	3	E
20260102.00	0.91	NE	4.5	3	S
20260102.03	0.88	NE	4.4	4	SE
20260102.06	0.92	NE	4.2	4	SE
20260102.09	1.05	NE	4.3	2	E
20260102.12	1.25	NE	4.6	5	W
20260102.15	1.48	NE	4.9	5	W
20260102.18	1.54	E	5.2	5	W
20260102.21	1.37	E	5.3	5	W
20260103.00	1.19	E	5.4	4	W
20260103.03	1.07	E	5.4	4	W
20260103.06	1.03	E	5.1	1	SE
20260103.09	1.06	E	4.9	1	E
20260103.12	1.00	E	4.9	3	SE

Wind condition in the Peschanyi

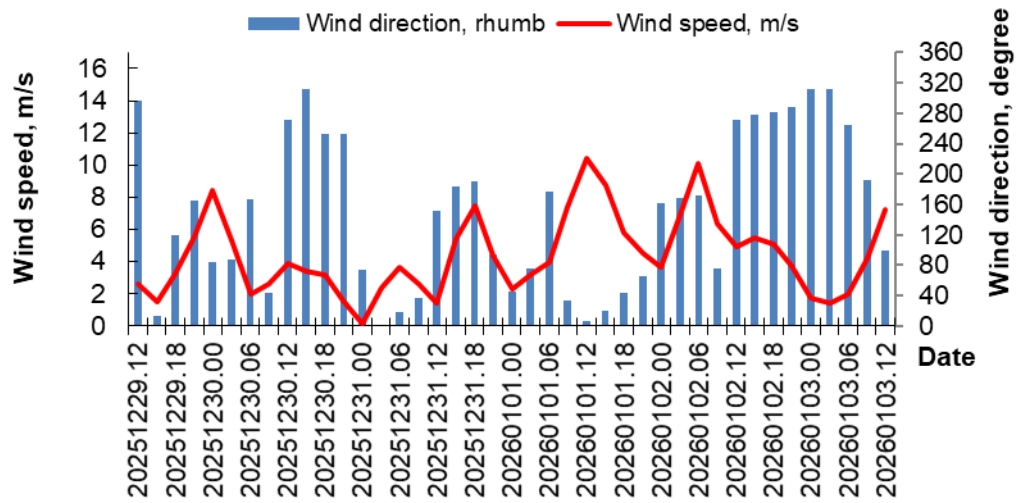


Wave condition in the Peschanyi

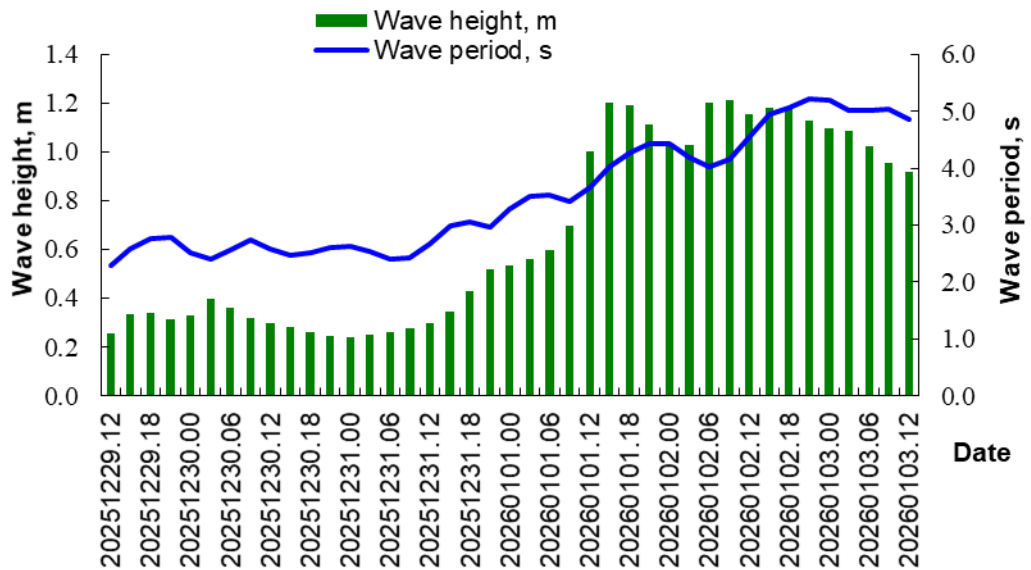


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251229.12	0.51	SE	2.4	6	NW
20251229.15	0.61	SE	2.9	4	NW
20251229.18	0.62	SE	3.2	1	SW
20251229.21	0.51	SE	3.4	1	S
20251230.00	0.43	SE	3.5	1	SE
20251230.03	0.38	SE	3.4	2	SE
20251230.06	0.34	SE	3.3	1	SE
20251230.09	0.33	E	3.2	1	N
20251230.12	0.33	E	2.8	4	W
20251230.15	0.34	E	2.5	4	NW
20251230.18	0.31	E	2.6	3	W
20251230.21	0.29	E	2.6	1	N
20251231.00	0.27	E	2.5	1	W
20251231.03	0.27	E	2.4	3	NE
20251231.06	0.26	E	2.3	3	NE
20251231.09	0.27	E	2.5	1	W
20251231.12	0.33	E	2.8	2	W
20251231.15	0.43	E	3.0	3	SW
20251231.18	0.50	E	3.2	6	E
20251231.21	0.55	E	3.2	3	SE
20260101.00	0.65	NE	3.4	2	NE
20260101.03	0.79	NE	3.6	5	NE
20260101.06	0.88	NE	3.7	7	E
20260101.09	0.99	NE	3.7	9	NE
20260101.12	1.18	NE	3.9	10	N
20260101.15	1.34	NE	4.2	10	NE
20260101.18	1.35	NE	4.3	10	NE
20260101.21	1.14	NE	4.2	7	NE
20260102.00	0.94	NE	4.2	5	S
20260102.03	0.87	NE	4.3	6	S
20260102.06	0.89	NE	4.2	7	S
20260102.09	1.06	NE	4.1	8	NE
20260102.12	1.45	NE	4.4	12	N
20260102.15	1.73	E	4.8	11	N
20260102.18	1.67	E	4.9	10	N
20260102.21	1.37	E	4.9	6	N
20260103.00	1.17	E	5.1	2	N
20260103.03	1.04	NE	5.2	4	SE
20260103.06	1.05	NE	4.8	8	S
20260103.09	1.08	NE	4.5	6	SE
20260103.12	0.97	NE	4.5	6	SE

Wind condition in the Fetisovo

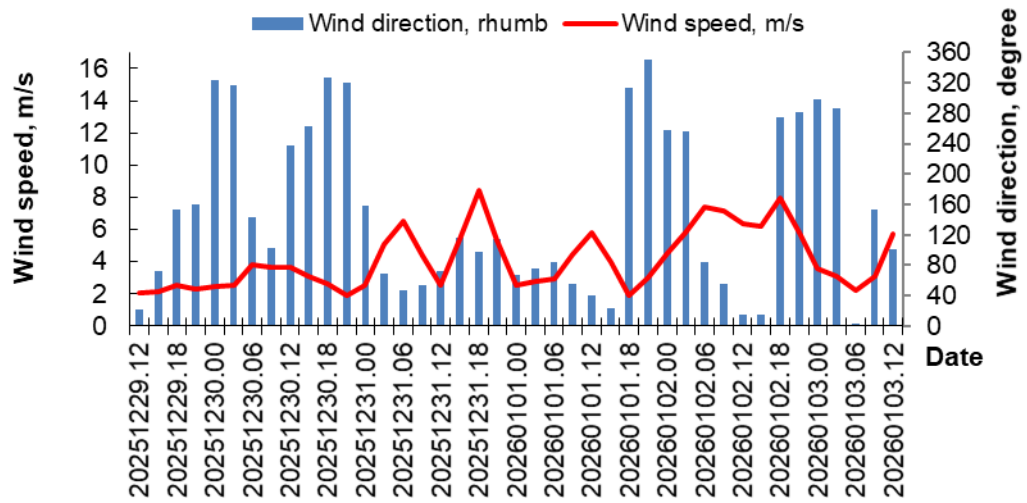


Wave condition in the Fetisovo

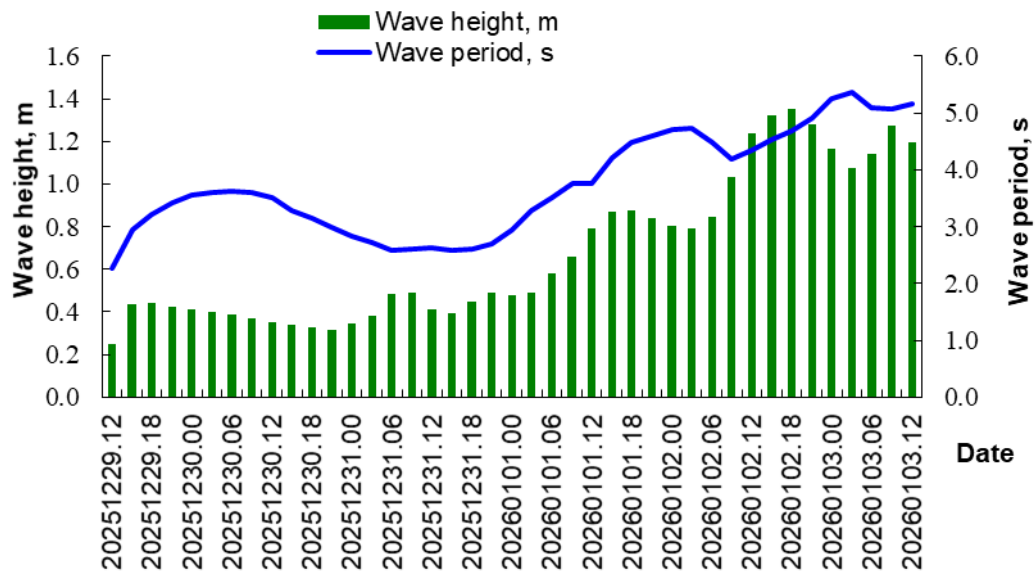


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251229.12	0.26	SE	2.3	3	NW
20251229.15	0.34	SE	2.6	1	N
20251229.18	0.34	SE	2.8	3	SE
20251229.21	0.31	SE	2.8	6	S
20251230.00	0.33	E	2.5	8	E
20251230.03	0.40	NE	2.4	5	E
20251230.06	0.36	NE	2.6	2	S
20251230.09	0.32	NE	2.7	3	NE
20251230.12	0.30	NE	2.6	4	W
20251230.15	0.28	E	2.5	3	NW
20251230.18	0.26	E	2.5	3	W
20251230.21	0.25	NE	2.6	2	W
20251231.00	0.24	NE	2.6	0	E
20251231.03	0.25	NE	2.5	2	N
20251231.06	0.26	NE	2.4	4	N
20251231.09	0.28	NE	2.4	3	NE
20251231.12	0.30	NE	2.7	1	SE
20251231.15	0.35	E	3.0	5	S
20251231.18	0.43	E	3.1	7	S
20251231.21	0.52	NE	3.0	4	E
20260101.00	0.54	NE	3.3	2	NE
20260101.03	0.56	NE	3.5	3	E
20260101.06	0.60	NE	3.5	4	S
20260101.09	0.70	NE	3.4	7	NE
20260101.12	1.00	NE	3.7	10	N
20260101.15	1.20	E	4.0	9	N
20260101.18	1.19	E	4.3	6	NE
20260101.21	1.11	NE	4.4	5	NE
20260102.00	1.03	NE	4.4	4	S
20260102.03	1.03	NE	4.2	7	S
20260102.06	1.20	NE	4.0	10	S
20260102.09	1.21	NE	4.2	6	E
20260102.12	1.15	NE	4.5	5	W
20260102.15	1.18	NE	5.0	5	W
20260102.18	1.18	NE	5.1	5	W
20260102.21	1.13	NE	5.2	4	W
20260103.00	1.09	NE	5.2	2	NW
20260103.03	1.08	NE	5.0	1	NW
20260103.06	1.02	NE	5.0	2	W
20260103.09	0.96	NE	5.0	4	S
20260103.12	0.92	NE	4.9	7	E

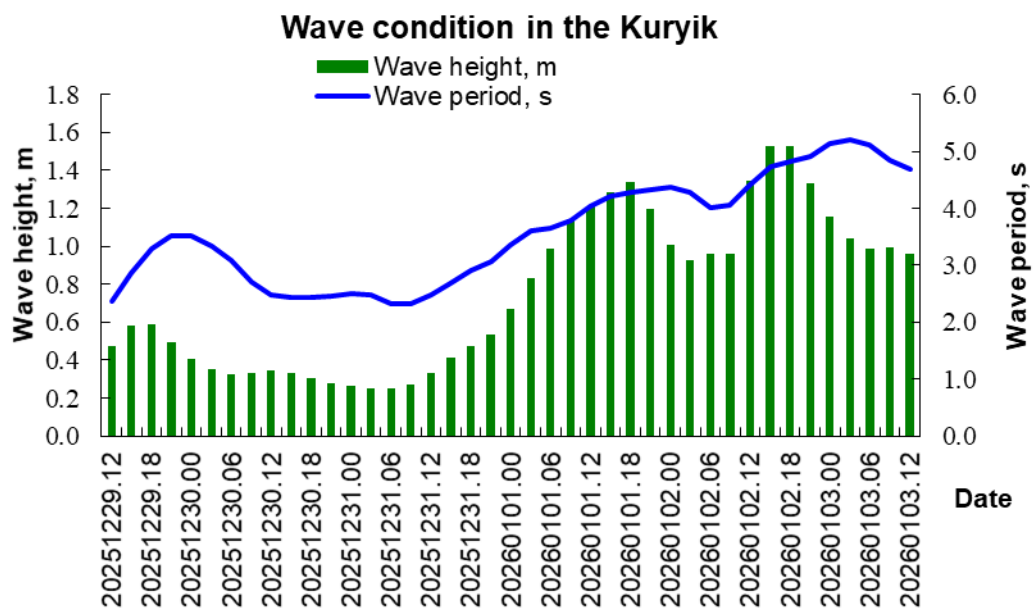
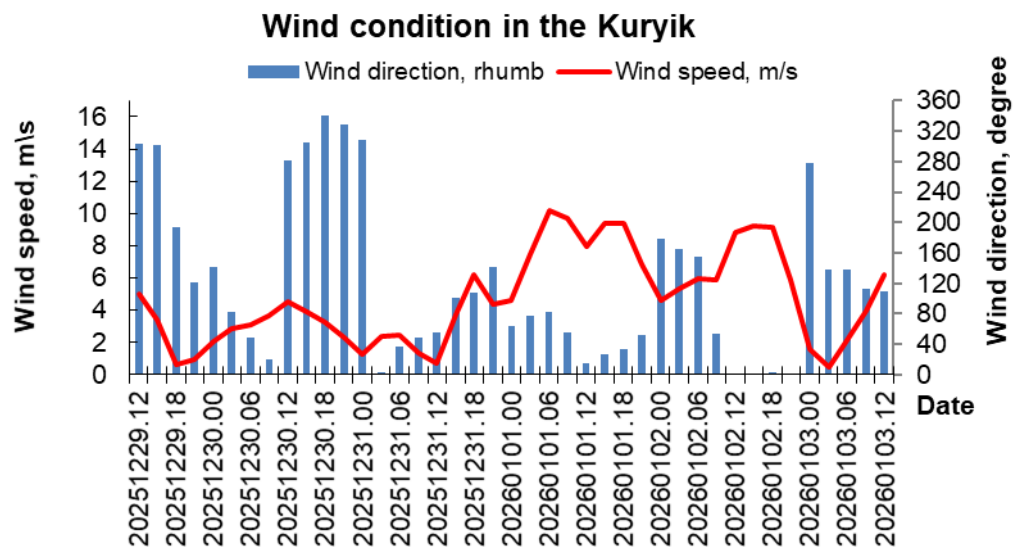
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251229.12	0.25	SE	2.3	2	N
20251229.15	0.43	E	2.9	2	E
20251229.18	0.44	SE	3.2	3	SE
20251229.21	0.43	SE	3.4	2	S
20251230.00	0.41	SE	3.6	2	NW
20251230.03	0.40	SE	3.6	3	NW
20251230.06	0.39	SE	3.6	4	SE
20251230.09	0.37	SE	3.6	4	E
20251230.12	0.35	SE	3.5	4	SW
20251230.15	0.34	SE	3.3	3	W
20251230.18	0.33	E	3.1	3	NW
20251230.21	0.32	E	3.0	2	NW
20251231.00	0.35	E	2.8	3	S
20251231.03	0.38	NE	2.7	5	E
20251231.06	0.49	NE	2.6	7	NE
20251231.09	0.49	NE	2.6	4	NE
20251231.12	0.41	NE	2.6	3	E
20251231.15	0.39	NE	2.6	5	SE
20251231.18	0.45	N	2.6	8	E
20251231.21	0.49	N	2.7	5	SE
20260101.00	0.48	N	2.9	3	NE
20260101.03	0.49	NE	3.3	3	E
20260101.06	0.58	NE	3.5	3	E
20260101.09	0.66	NE	3.8	4	NE
20260101.12	0.79	NE	3.8	6	NE
20260101.15	0.87	NE	4.2	4	NE
20260101.18	0.88	NE	4.5	2	NW
20260101.21	0.84	NE	4.6	3	N
20260102.00	0.80	NE	4.7	5	W
20260102.03	0.79	E	4.7	6	W
20260102.06	0.85	NE	4.5	7	E
20260102.09	1.03	NE	4.2	7	NE
20260102.12	1.24	NE	4.3	6	N
20260102.15	1.32	NE	4.5	6	N
20260102.18	1.35	E	4.7	8	W
20260102.21	1.28	E	4.9	6	W
20260103.00	1.16	E	5.3	4	NW
20260103.03	1.08	E	5.4	3	W
20260103.06	1.14	E	5.1	2	N
20260103.09	1.27	E	5.1	3	SE
20260103.12	1.20	E	5.2	6	E



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251229.12	0.48	SE	2.4	5	NW
20251229.15	0.58	SE	2.9	3	NW
20251229.18	0.59	SE	3.3	1	S
20251229.21	0.50	SE	3.5	1	SE
20251230.00	0.41	SE	3.5	2	SE
20251230.03	0.35	SE	3.3	3	E
20251230.06	0.33	SE	3.1	3	NE
20251230.09	0.33	E	2.7	4	N
20251230.12	0.34	E	2.5	5	W
20251230.15	0.33	E	2.4	4	NW
20251230.18	0.31	E	2.4	3	N
20251230.21	0.28	E	2.5	2	NW
20251231.00	0.26	E	2.5	1	NW
20251231.03	0.25	E	2.5	2	N
20251231.06	0.25	E	2.3	2	NE
20251231.09	0.27	E	2.3	1	NE
20251231.12	0.33	E	2.5	1	NE
20251231.15	0.41	E	2.7	4	E
20251231.18	0.47	E	2.9	6	E
20251231.21	0.54	NE	3.1	4	SE
20260101.00	0.67	NE	3.4	5	NE
20260101.03	0.83	NE	3.6	7	E
20260101.06	0.99	NE	3.6	10	E
20260101.09	1.14	NE	3.8	10	NE
20260101.12	1.21	NE	4.0	8	N
20260101.15	1.29	NE	4.2	9	NE
20260101.18	1.34	NE	4.3	9	NE
20260101.21	1.20	NE	4.3	7	NE
20260102.00	1.01	NE	4.4	5	S
20260102.03	0.92	NE	4.3	5	S
20260102.06	0.96	NE	4.0	6	SE
20260102.09	0.96	NE	4.0	6	NE
20260102.12	1.35	NE	4.4	9	N
20260102.15	1.53	E	4.7	9	N
20260102.18	1.53	E	4.8	9	N
20260102.21	1.33	E	4.9	6	N
20260103.00	1.15	NE	5.1	2	W
20260103.03	1.04	NE	5.2	0	SE
20260103.06	0.99	NE	5.1	2	SE
20260103.09	1.00	NE	4.9	4	SE
20260103.12	0.96	NE	4.7	6	E

**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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