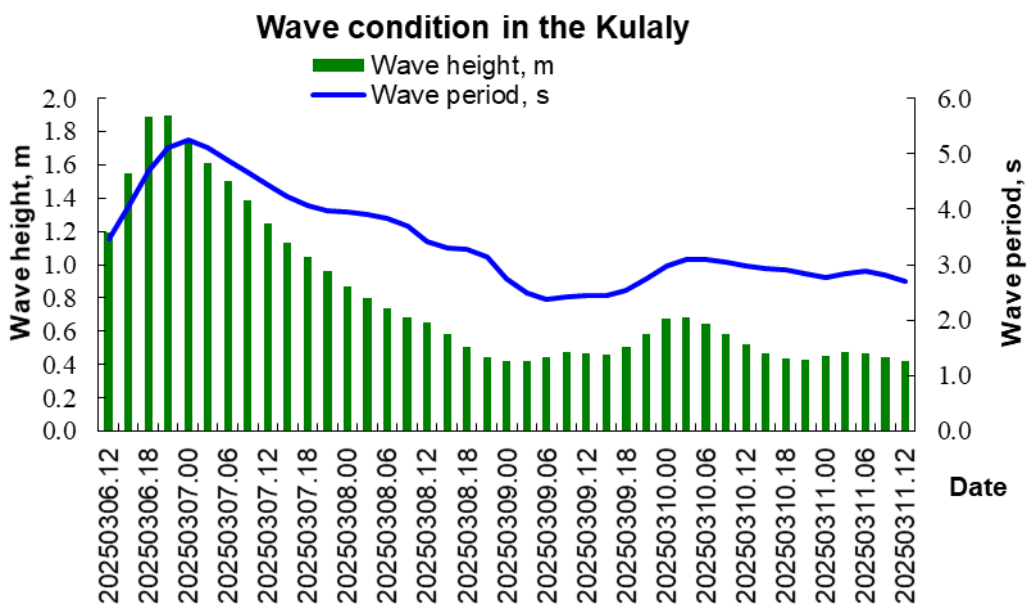
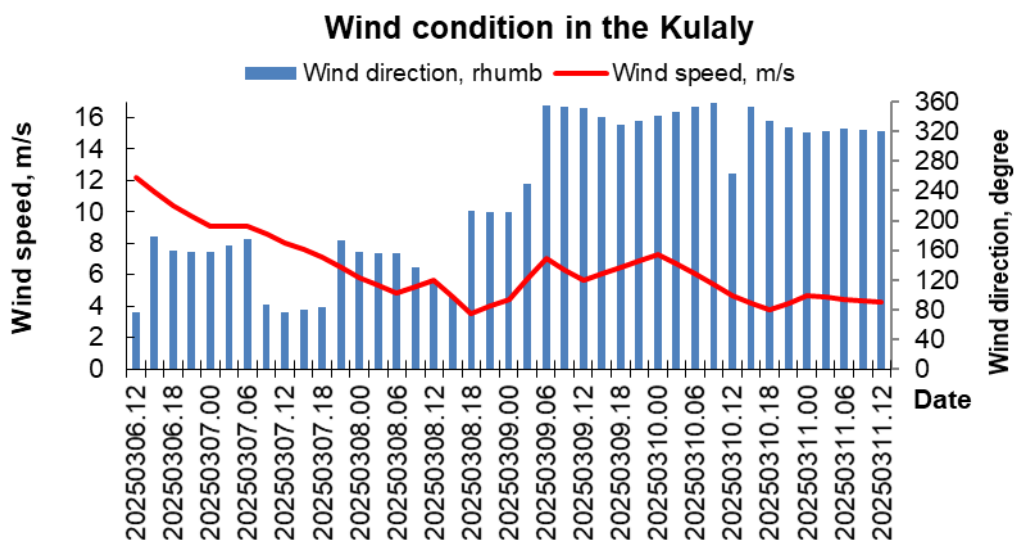




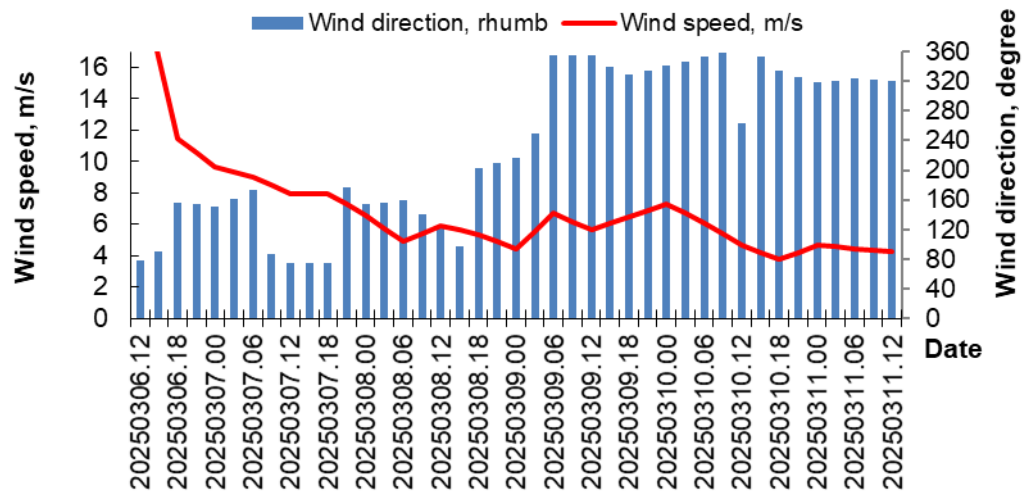
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period March 06 – 11 , 2025.**

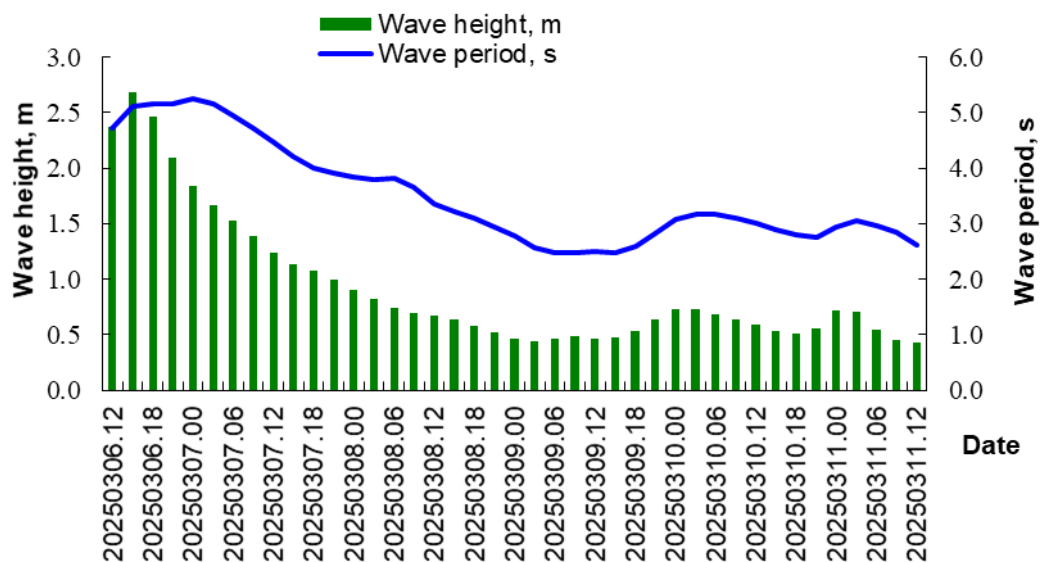


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250306.12	1.19	N	3.5	12	E
20250306.15	1.55	N	4.1	11	S
20250306.18	1.89	N	4.7	10	S
20250306.21	1.90	N	5.1	10	S
20250307.00	1.73	N	5.3	9	S
20250307.03	1.61	N	5.1	9	S
20250307.06	1.51	N	4.9	9	S
20250307.09	1.38	N	4.7	9	E
20250307.12	1.25	N	4.4	8	E
20250307.15	1.13	N	4.2	8	E
20250307.18	1.05	N	4.1	7	E
20250307.21	0.96	N	4.0	6	S
20250308.00	0.87	N	3.9	6	SE
20250308.03	0.80	N	3.9	5	SE
20250308.06	0.74	N	3.8	5	SE
20250308.09	0.68	N	3.7	5	SE
20250308.12	0.65	N	3.4	6	SE
20250308.15	0.59	N	3.3	5	E
20250308.18	0.51	N	3.3	4	SW
20250308.21	0.44	N	3.1	4	SW
20250309.00	0.42	NW	2.8	4	SW
20250309.03	0.42	W	2.5	6	W
20250309.06	0.44	SW	2.4	7	N
20250309.09	0.48	SW	2.4	6	N
20250309.12	0.46	S	2.5	6	N
20250309.15	0.46	S	2.4	6	N
20250309.18	0.50	S	2.5	6	NW
20250309.21	0.59	SE	2.7	7	NW
20250310.00	0.68	SE	3.0	7	N
20250310.03	0.69	SE	3.1	7	N
20250310.06	0.65	SE	3.1	6	N
20250310.09	0.58	SE	3.0	5	N
20250310.12	0.52	SE	3.0	5	W
20250310.15	0.47	SE	2.9	4	N
20250310.18	0.44	SE	2.9	4	NW
20250310.21	0.43	SE	2.8	4	NW
20250311.00	0.45	SE	2.8	5	NW
20250311.03	0.48	SE	2.8	5	NW
20250311.06	0.47	SE	2.9	4	NW
20250311.09	0.44	SE	2.8	4	NW
20250311.12	0.42	SE	2.7	4	NW

Wind condition in the Fort-Shevchenko

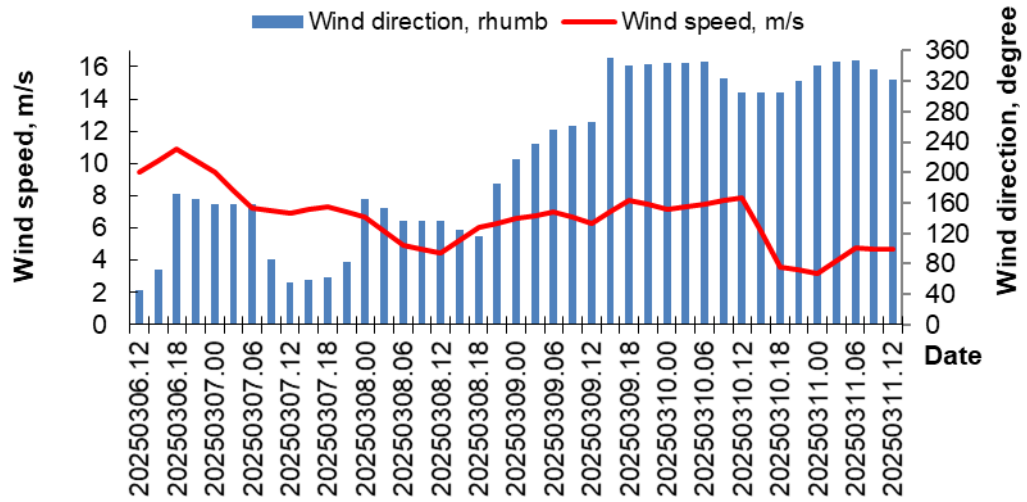


Wave condition in the Fort-Shevchenko

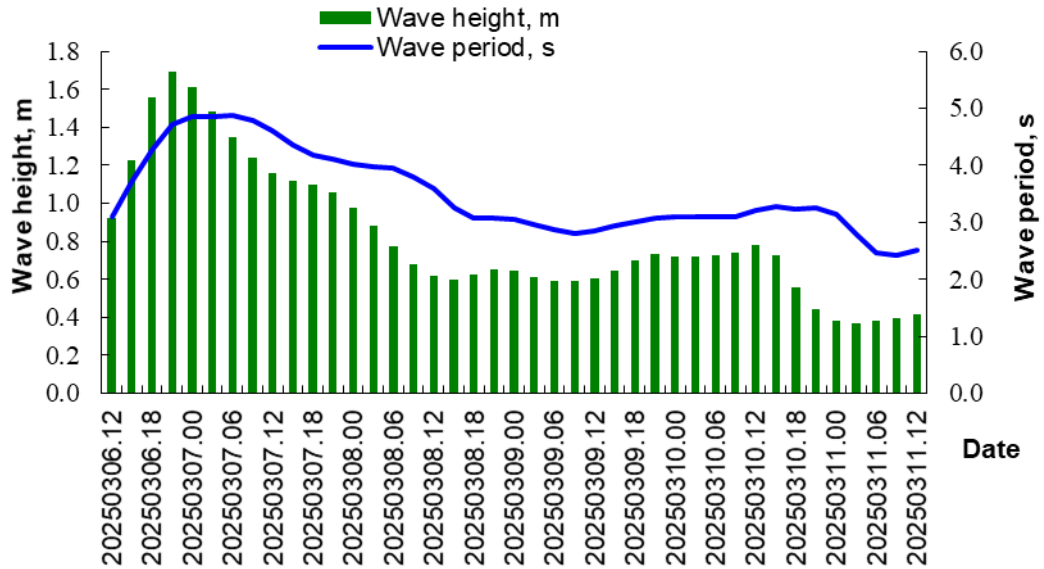


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250306.12	2.37	N	4.7	22	E
20250306.15	2.68	N	5.1	17	E
20250306.18	2.46	N	5.2	11	SE
20250306.21	2.09	N	5.2	11	SE
20250307.00	1.84	N	5.3	10	SE
20250307.03	1.67	N	5.2	9	S
20250307.06	1.53	N	5.0	9	S
20250307.09	1.38	N	4.7	8	E
20250307.12	1.24	N	4.5	8	E
20250307.15	1.13	N	4.2	8	E
20250307.18	1.08	N	4.0	8	E
20250307.21	1.00	N	3.9	7	S
20250308.00	0.91	N	3.8	7	SE
20250308.03	0.82	N	3.8	6	SE
20250308.06	0.74	N	3.8	5	S
20250308.09	0.69	N	3.7	5	SE
20250308.12	0.67	N	3.4	6	SE
20250308.15	0.64	NW	3.2	6	E
20250308.18	0.58	NW	3.1	5	SW
20250308.21	0.52	NW	2.9	5	SW
20250309.00	0.46	NW	2.8	4	SW
20250309.03	0.45	W	2.6	6	W
20250309.06	0.46	SW	2.5	7	N
20250309.09	0.49	SW	2.5	6	N
20250309.12	0.47	S	2.5	6	N
20250309.15	0.48	S	2.5	6	N
20250309.18	0.54	S	2.6	6	NW
20250309.21	0.64	S	2.8	7	NW
20250310.00	0.73	SE	3.1	7	N
20250310.03	0.73	SE	3.2	7	N
20250310.06	0.69	SE	3.2	6	N
20250310.09	0.64	SE	3.1	5	N
20250310.12	0.59	SE	3.0	5	W
20250310.15	0.54	SE	2.9	4	N
20250310.18	0.50	SE	2.8	4	NW
20250310.21	0.56	SE	2.7	4	NW
20250311.00	0.71	SE	2.9	5	NW
20250311.03	0.71	SE	3.0	5	NW
20250311.06	0.55	SE	3.0	4	NW
20250311.09	0.45	SE	2.8	4	NW
20250311.12	0.43	SE	2.6	4	NW

Wind condition in the Aktau

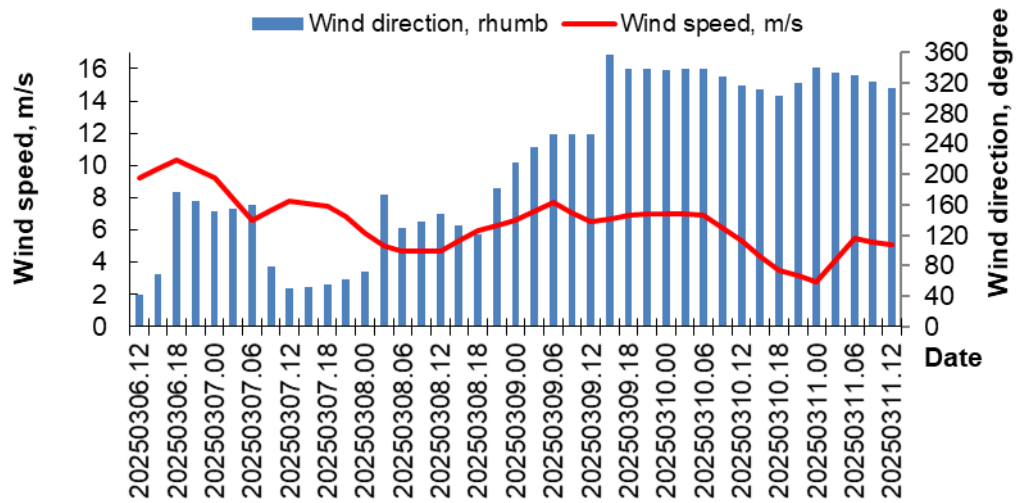


Wave condition in the Aktau

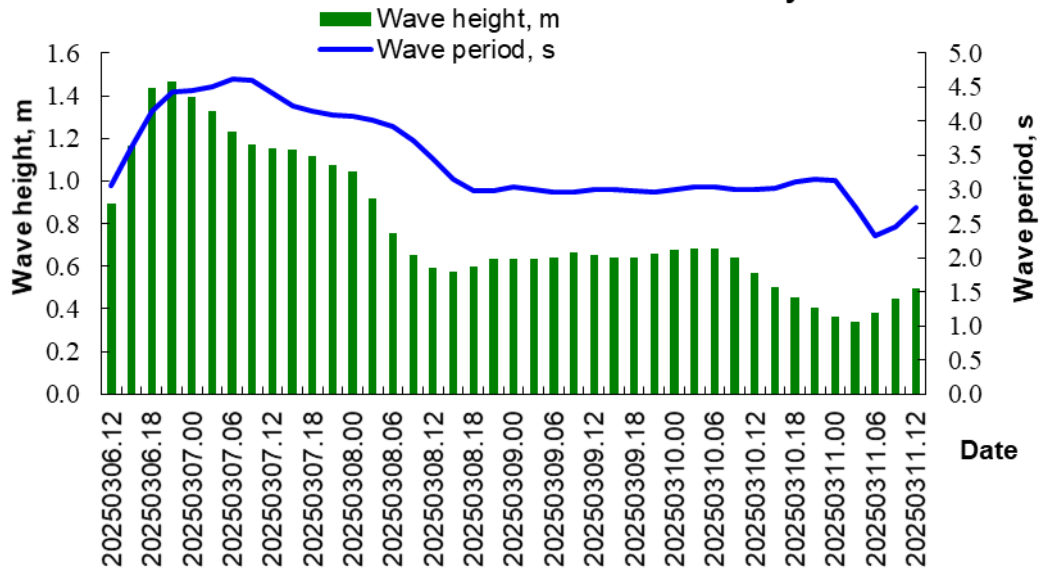


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250306.12	0.92	NE	3.1	9	NE
20250306.15	1.22	NE	3.7	10	E
20250306.18	1.56	NE	4.3	11	S
20250306.21	1.69	N	4.7	10	S
20250307.00	1.61	N	4.8	9	S
20250307.03	1.49	N	4.9	8	S
20250307.06	1.35	N	4.9	7	S
20250307.09	1.24	N	4.8	7	E
20250307.12	1.16	N	4.6	7	NE
20250307.15	1.12	N	4.3	7	NE
20250307.18	1.10	N	4.2	7	NE
20250307.21	1.06	N	4.1	7	E
20250308.00	0.98	N	4.0	7	S
20250308.03	0.88	N	4.0	6	SE
20250308.06	0.77	N	3.9	5	SE
20250308.09	0.68	N	3.8	5	SE
20250308.12	0.62	N	3.6	4	SE
20250308.15	0.60	NW	3.3	5	SE
20250308.18	0.62	NW	3.1	6	SE
20250308.21	0.65	NW	3.1	6	S
20250309.00	0.64	NW	3.1	7	SW
20250309.03	0.61	W	3.0	7	SW
20250309.06	0.59	W	2.9	7	W
20250309.09	0.59	SW	2.8	7	W
20250309.12	0.60	SW	2.9	6	W
20250309.15	0.65	S	2.9	7	N
20250309.18	0.70	S	3.0	8	N
20250309.21	0.73	S	3.1	7	N
20250310.00	0.72	S	3.1	7	N
20250310.03	0.72	S	3.1	7	N
20250310.06	0.72	S	3.1	7	N
20250310.09	0.74	S	3.1	8	NW
20250310.12	0.78	SE	3.2	8	NW
20250310.15	0.73	SE	3.3	6	NW
20250310.18	0.56	SE	3.2	4	NW
20250310.21	0.44	SE	3.3	3	NW
20250311.00	0.38	SE	3.1	3	N
20250311.03	0.37	SE	2.8	4	N
20250311.06	0.38	SE	2.5	5	N
20250311.09	0.40	SE	2.4	5	NW
20250311.12	0.41	SE	2.5	5	NW

Wind condition in the Peschanyi

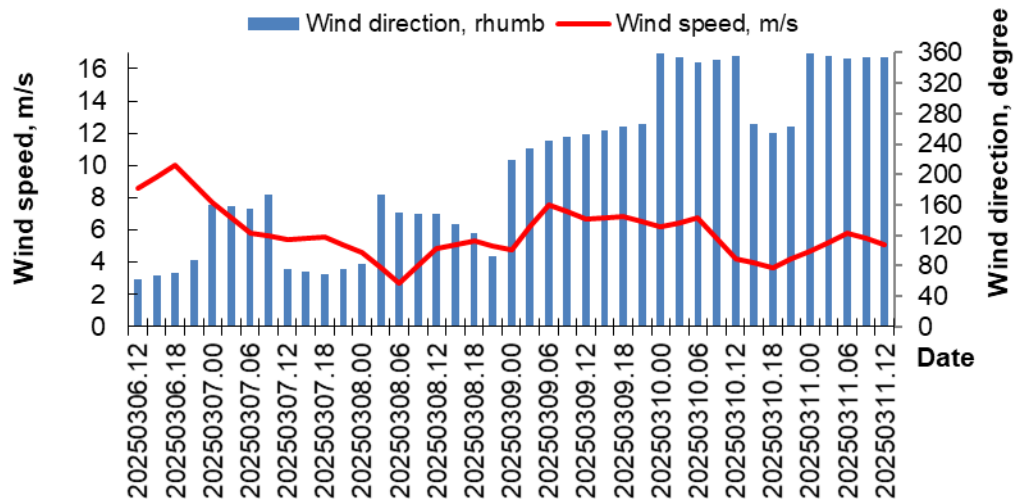


Wave condition in the Peschanyi

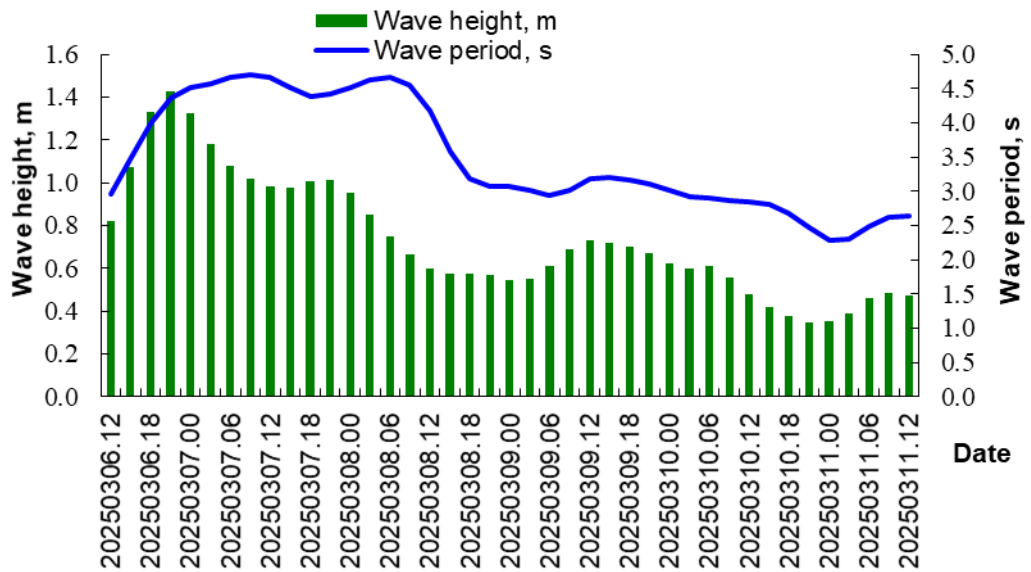


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250306.12	0.90	NE	3.1	9	NE
20250306.15	1.16	NE	3.6	10	E
20250306.18	1.44	NE	4.1	10	S
20250306.21	1.47	N	4.4	10	S
20250307.00	1.39	N	4.5	9	SE
20250307.03	1.33	N	4.5	8	SE
20250307.06	1.23	NW	4.6	7	S
20250307.09	1.17	NW	4.6	7	E
20250307.12	1.15	N	4.4	8	NE
20250307.15	1.14	N	4.2	8	NE
20250307.18	1.11	N	4.1	8	NE
20250307.21	1.07	N	4.1	7	NE
20250308.00	1.04	NE	4.1	6	E
20250308.03	0.92	NE	4.0	5	S
20250308.06	0.76	N	3.9	5	SE
20250308.09	0.65	N	3.7	5	SE
20250308.12	0.59	N	3.4	5	SE
20250308.15	0.57	NW	3.2	5	SE
20250308.18	0.60	NW	3.0	6	SE
20250308.21	0.63	NW	3.0	6	S
20250309.00	0.64	NW	3.0	7	SW
20250309.03	0.64	W	3.0	7	SW
20250309.06	0.64	W	3.0	8	W
20250309.09	0.67	SW	3.0	7	W
20250309.12	0.65	SW	3.0	7	W
20250309.15	0.64	SW	3.0	7	N
20250309.18	0.64	S	3.0	7	N
20250309.21	0.66	S	3.0	7	N
20250310.00	0.68	S	3.0	7	NW
20250310.03	0.68	S	3.0	7	N
20250310.06	0.68	S	3.0	7	N
20250310.09	0.64	S	3.0	6	NW
20250310.12	0.57	S	3.0	5	NW
20250310.15	0.50	SE	3.0	4	NW
20250310.18	0.45	SE	3.1	3	NW
20250310.21	0.41	SE	3.2	3	NW
20250311.00	0.36	SE	3.1	3	N
20250311.03	0.34	SE	2.7	4	NW
20250311.06	0.38	SE	2.3	5	NW
20250311.09	0.45	SE	2.5	5	NW
20250311.12	0.50	SE	2.7	5	NW

Wind condition in the Fetisovo

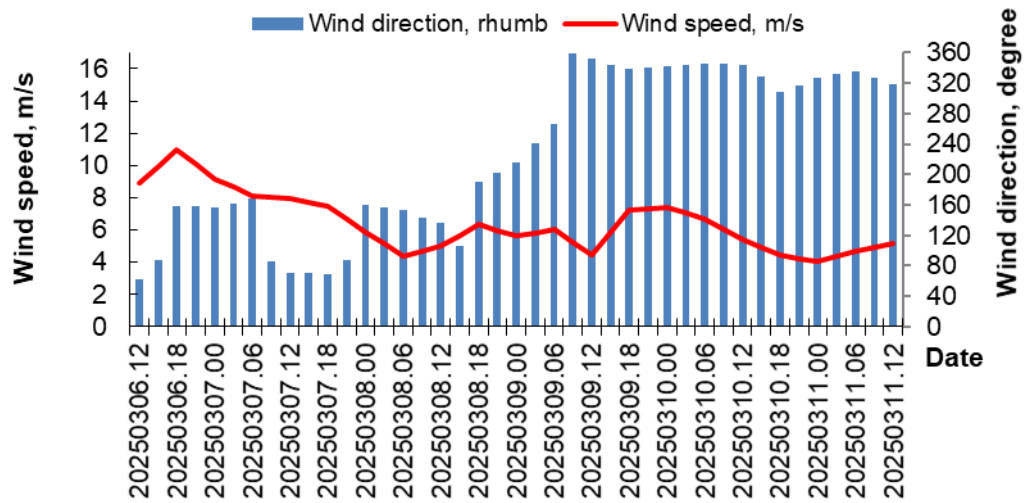


Wave condition in the Fetisovo

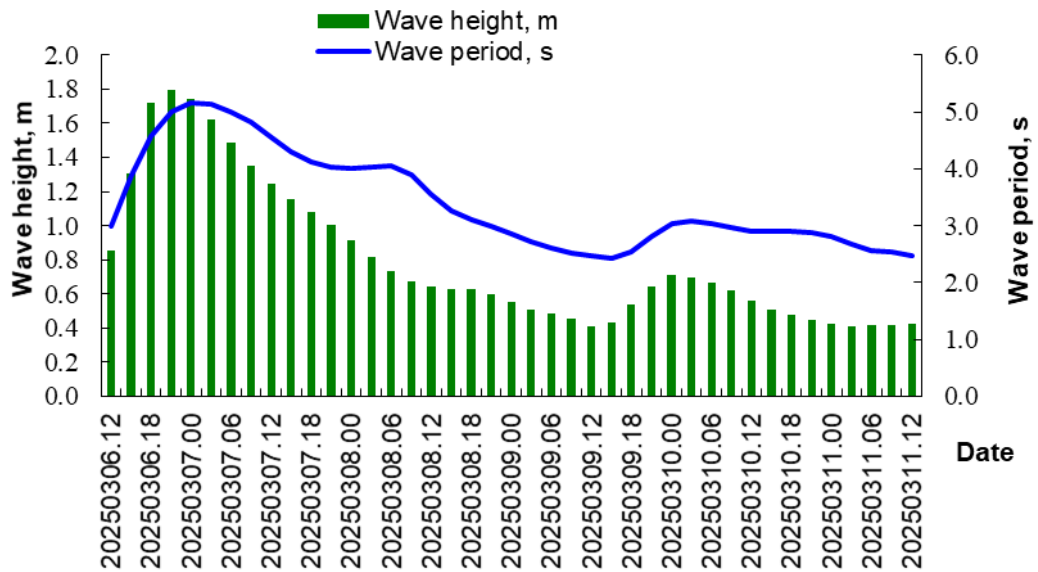


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250306.12	0.82	NE	3.0	9	NE
20250306.15	1.07	NE	3.5	9	NE
20250306.18	1.33	NE	4.0	10	E
20250306.21	1.42	NE	4.4	9	E
20250307.00	1.32	N	4.5	8	S
20250307.03	1.18	N	4.6	7	S
20250307.06	1.08	N	4.7	6	SE
20250307.09	1.02	N	4.7	6	S
20250307.12	0.99	N	4.7	5	E
20250307.15	0.98	N	4.5	5	E
20250307.18	1.01	N	4.4	6	E
20250307.21	1.01	N	4.4	5	E
20250308.00	0.96	N	4.5	5	E
20250308.03	0.85	N	4.6	4	S
20250308.06	0.75	N	4.7	3	SE
20250308.09	0.66	N	4.6	4	SE
20250308.12	0.60	N	4.2	5	SE
20250308.15	0.57	N	3.6	5	SE
20250308.18	0.58	NW	3.2	5	SE
20250308.21	0.57	NW	3.1	5	E
20250309.00	0.54	NW	3.1	5	SW
20250309.03	0.55	NW	3.0	6	SW
20250309.06	0.61	W	2.9	8	SW
20250309.09	0.69	SW	3.0	7	W
20250309.12	0.73	SW	3.2	7	W
20250309.15	0.72	SW	3.2	7	W
20250309.18	0.70	SW	3.2	7	W
20250309.21	0.67	SW	3.1	7	W
20250310.00	0.62	S	3.0	6	N
20250310.03	0.60	S	2.9	6	N
20250310.06	0.61	S	2.9	7	N
20250310.09	0.56	S	2.9	6	N
20250310.12	0.48	S	2.8	4	N
20250310.15	0.42	S	2.8	4	W
20250310.18	0.37	S	2.7	4	W
20250310.21	0.35	S	2.5	4	W
20250311.00	0.35	S	2.3	5	N
20250311.03	0.39	S	2.3	5	N
20250311.06	0.46	S	2.5	6	N
20250311.09	0.49	SE	2.6	5	N
20250311.12	0.47	SE	2.6	5	N

Wind condition in the Saura

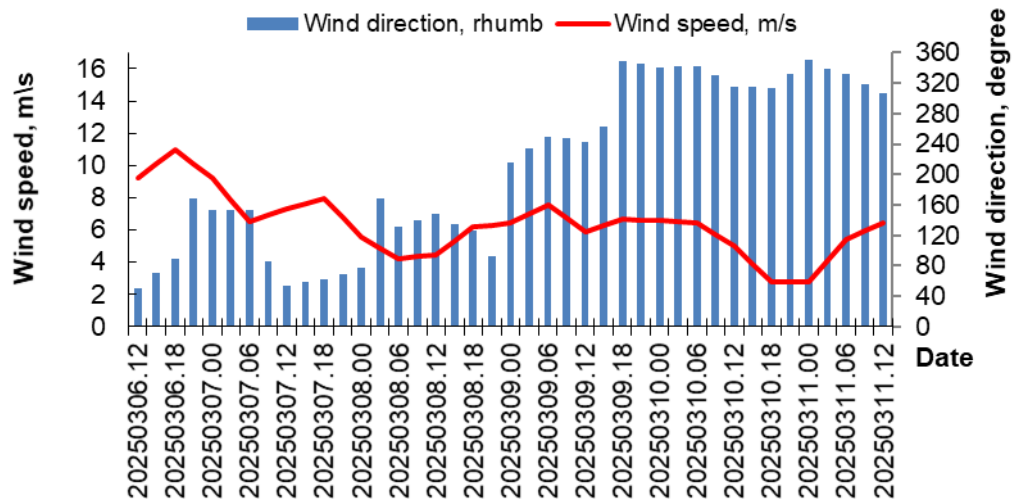


Wave condition in the Saura

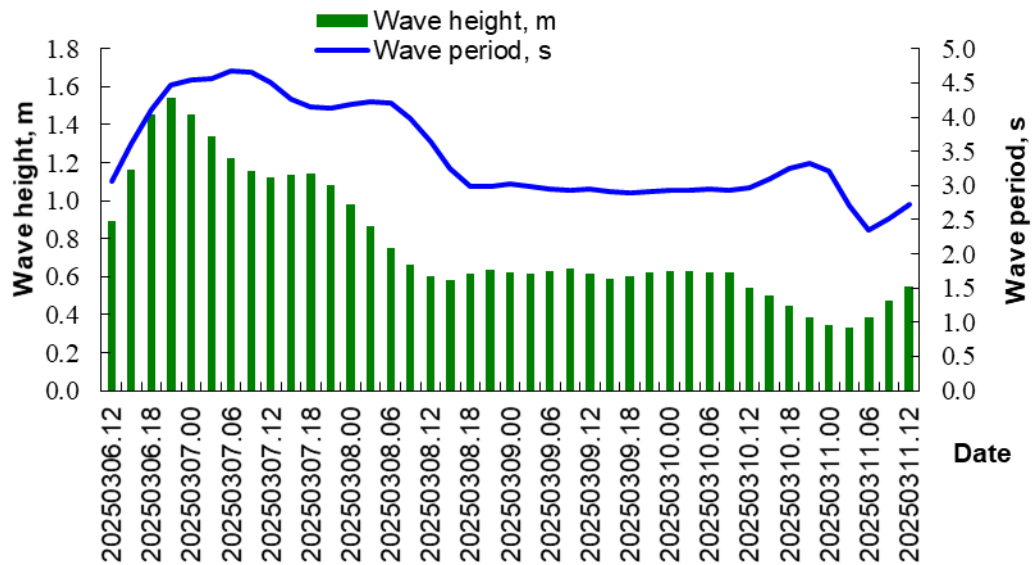


Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250306.12	0.85	NE	3.0	9	NE
20250306.15	1.31	N	3.9	10	E
20250306.18	1.72	N	4.6	11	S
20250306.21	1.80	N	5.0	10	S
20250307.00	1.74	N	5.2	9	SE
20250307.03	1.62	N	5.1	9	S
20250307.06	1.48	N	5.0	8	S
20250307.09	1.35	N	4.8	8	E
20250307.12	1.25	N	4.5	8	E
20250307.15	1.16	N	4.3	8	E
20250307.18	1.08	N	4.1	7	E
20250307.21	1.01	N	4.0	7	E
20250308.00	0.91	N	4.0	6	S
20250308.03	0.82	N	4.0	5	SE
20250308.06	0.74	N	4.1	4	SE
20250308.09	0.67	N	3.9	5	SE
20250308.12	0.64	N	3.6	5	SE
20250308.15	0.63	NW	3.3	6	E
20250308.18	0.63	NW	3.1	6	S
20250308.21	0.60	NW	3.0	6	S
20250309.00	0.55	W	2.9	6	SW
20250309.03	0.51	W	2.7	6	SW
20250309.06	0.49	W	2.6	6	W
20250309.09	0.46	SW	2.5	5	N
20250309.12	0.41	SW	2.5	4	N
20250309.15	0.43	S	2.4	6	N
20250309.18	0.54	S	2.5	7	N
20250309.21	0.64	S	2.8	7	N
20250310.00	0.71	S	3.0	7	N
20250310.03	0.70	S	3.1	7	N
20250310.06	0.67	S	3.0	7	N
20250310.09	0.62	SE	3.0	6	N
20250310.12	0.56	SE	2.9	5	N
20250310.15	0.51	SE	2.9	5	NW
20250310.18	0.48	SE	2.9	4	NW
20250310.21	0.45	SE	2.9	4	NW
20250311.00	0.42	SE	2.8	4	NW
20250311.03	0.41	SE	2.7	4	NW
20250311.06	0.42	SE	2.6	5	NW
20250311.09	0.42	SE	2.5	5	NW
20250311.12	0.42	SE	2.5	5	NW

Wind condition in the Kuryk



Wave condition in the Kuryk



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250306.12	0.89	NE	3.1	9	NE
20250306.15	1.17	NE	3.6	10	E
20250306.18	1.46	NE	4.1	11	E
20250306.21	1.54	N	4.5	10	S
20250307.00	1.45	N	4.5	9	SE
20250307.03	1.34	N	4.6	8	SE
20250307.06	1.22	N	4.7	7	SE
20250307.09	1.16	N	4.7	7	E
20250307.12	1.13	N	4.5	7	NE
20250307.15	1.13	N	4.3	8	NE
20250307.18	1.15	N	4.2	8	NE
20250307.21	1.08	N	4.1	7	E
20250308.00	0.98	N	4.2	6	E
20250308.03	0.87	N	4.2	5	S
20250308.06	0.75	N	4.2	4	SE
20250308.09	0.66	N	4.0	4	SE
20250308.12	0.60	N	3.6	4	SE
20250308.15	0.58	N	3.2	5	SE
20250308.18	0.62	NW	3.0	6	SE
20250308.21	0.64	NW	3.0	6	E
20250309.00	0.62	NW	3.0	6	SW
20250309.03	0.61	W	3.0	7	SW
20250309.06	0.63	W	2.9	8	W
20250309.09	0.64	SW	2.9	7	SW
20250309.12	0.61	SW	3.0	6	SW
20250309.15	0.59	SW	2.9	6	W
20250309.18	0.60	SW	2.9	7	N
20250309.21	0.62	S	2.9	7	N
20250310.00	0.63	S	2.9	7	N
20250310.03	0.63	S	2.9	7	N
20250310.06	0.62	S	2.9	6	N
20250310.09	0.62	S	2.9	6	NW
20250310.12	0.54	S	3.0	5	NW
20250310.15	0.50	SE	3.1	4	NW
20250310.18	0.45	SE	3.3	3	NW
20250310.21	0.39	SE	3.3	3	NW
20250311.00	0.34	SE	3.2	3	N
20250311.03	0.33	S	2.7	4	N
20250311.06	0.39	S	2.4	5	NW
20250311.09	0.48	SE	2.5	6	NW
20250311.12	0.55	SE	2.7	6	NW

**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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