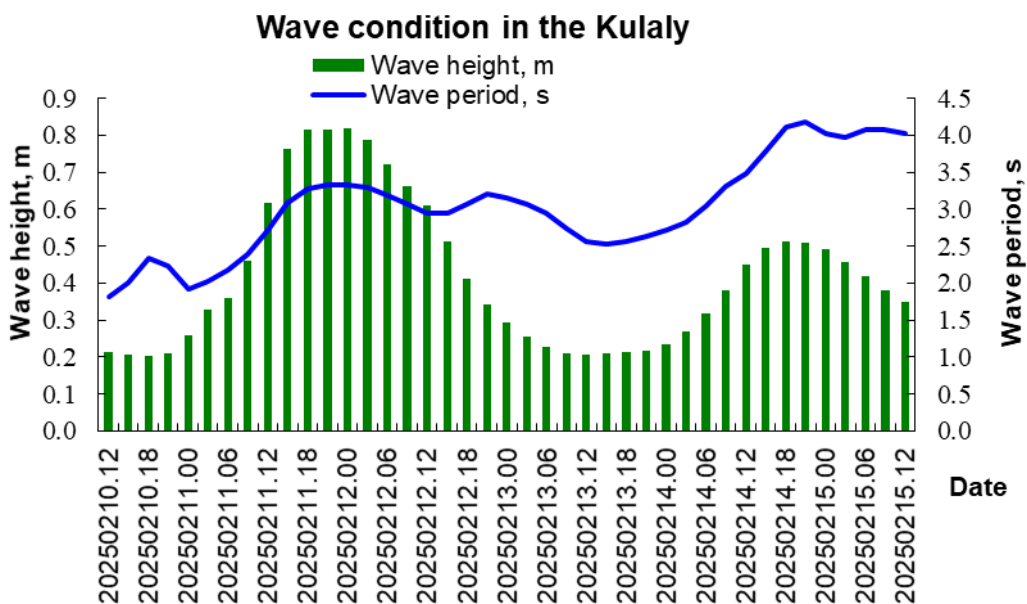
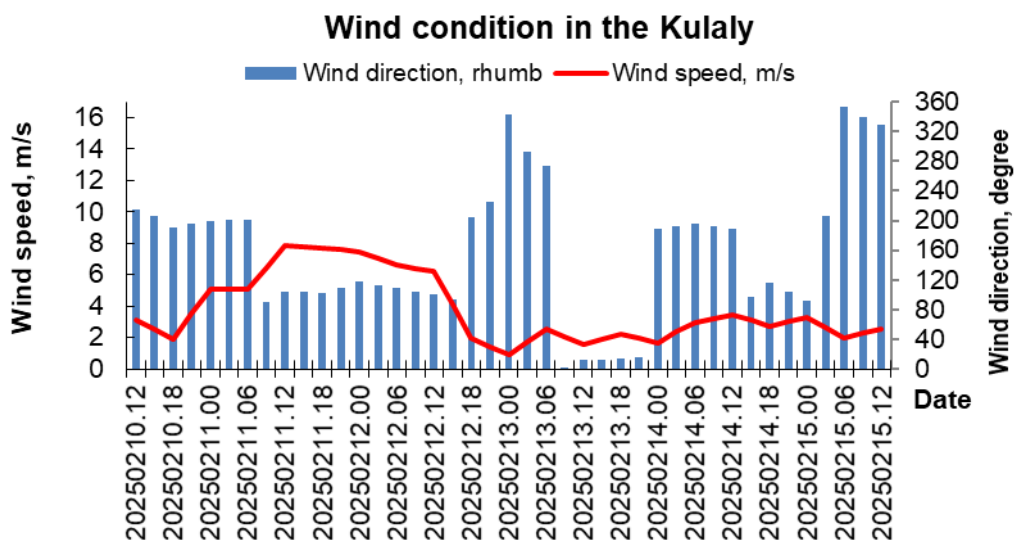




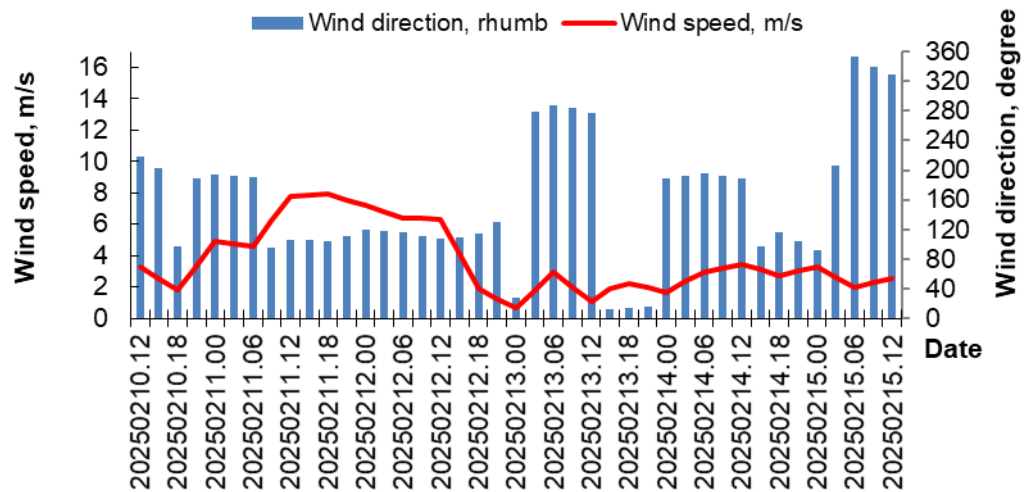
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
for the period February 10 - 15, 2025.**

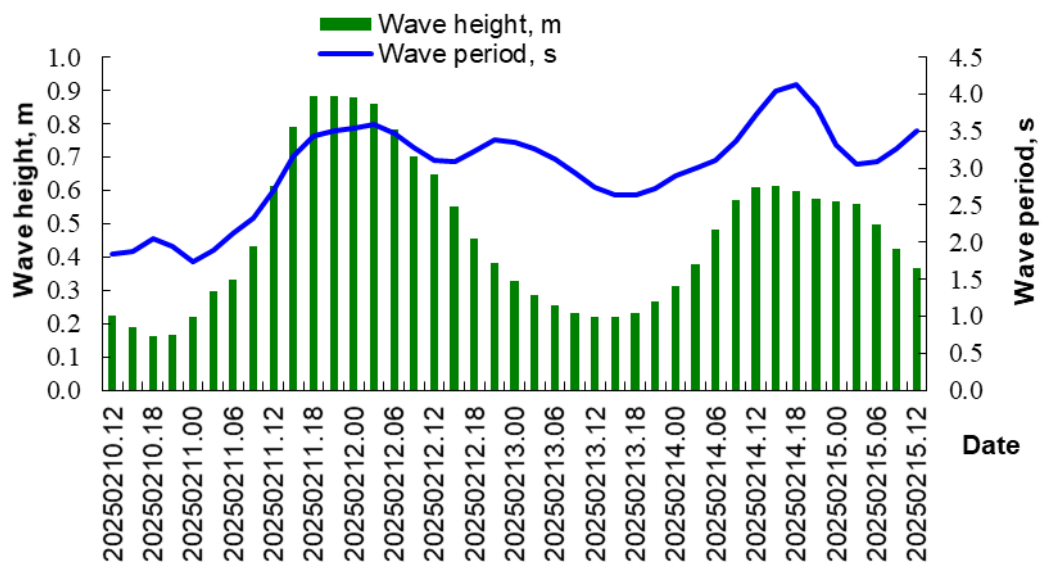


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250210.12	0.21	SW	1.8	3	SW
20250210.15	0.21	SW	2.0	3	SW
20250210.18	0.20	W	2.3	2	S
20250210.21	0.21	W	2.2	3	S
20250211.00	0.26	W	1.9	5	S
20250211.03	0.33	W	2.0	5	S
20250211.06	0.36	W	2.2	5	S
20250211.09	0.46	W	2.4	6	E
20250211.12	0.62	W	2.7	8	E
20250211.15	0.76	W	3.1	8	E
20250211.18	0.82	W	3.3	8	E
20250211.21	0.82	W	3.3	8	E
20250212.00	0.82	W	3.3	7	SE
20250212.03	0.79	W	3.3	7	SE
20250212.06	0.72	W	3.2	7	E
20250212.09	0.66	W	3.1	6	E
20250212.12	0.61	W	3.0	6	E
20250212.15	0.51	W	2.9	4	E
20250212.18	0.41	W	3.1	2	SW
20250212.21	0.34	W	3.2	1	SW
20250213.00	0.29	W	3.2	1	N
20250213.03	0.26	W	3.1	2	NW
20250213.06	0.23	W	2.9	3	W
20250213.09	0.21	W	2.7	2	N
20250213.12	0.21	W	2.6	2	N
20250213.15	0.21	SW	2.5	2	N
20250213.18	0.21	S	2.6	2	N
20250213.21	0.22	S	2.6	2	N
20250214.00	0.24	S	2.7	2	S
20250214.03	0.27	SE	2.8	2	S
20250214.06	0.32	SE	3.0	3	S
20250214.09	0.38	SE	3.3	3	S
20250214.12	0.45	SE	3.5	3	S
20250214.15	0.50	SE	3.8	3	E
20250214.18	0.51	SE	4.1	3	SE
20250214.21	0.51	SE	4.2	3	E
20250215.00	0.49	SE	4.0	3	E
20250215.03	0.46	SE	4.0	3	SW
20250215.06	0.42	SE	4.1	2	N
20250215.09	0.38	SE	4.1	2	N
20250215.12	0.35	SE	4.0	3	NW

Wind condition in the Fort-Shevchenko

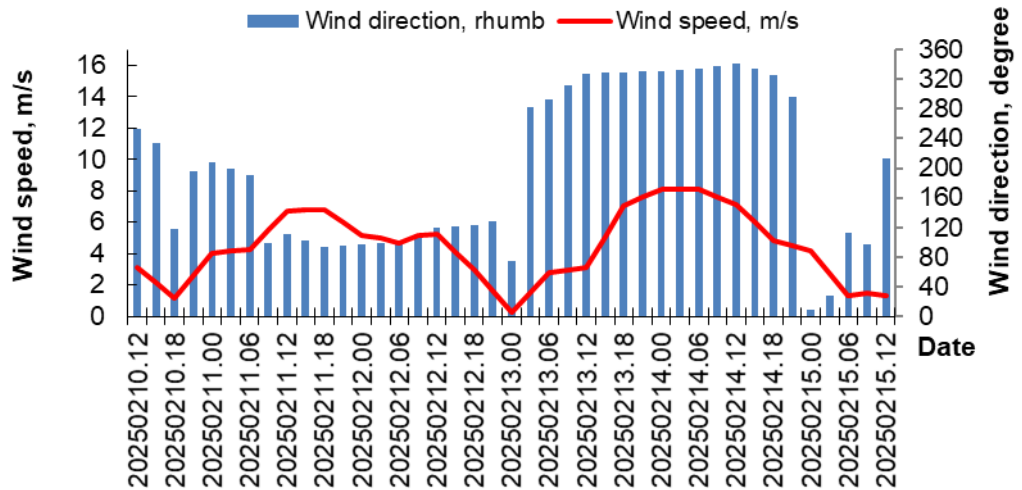


Wave condition in the Fort-Shevchenko

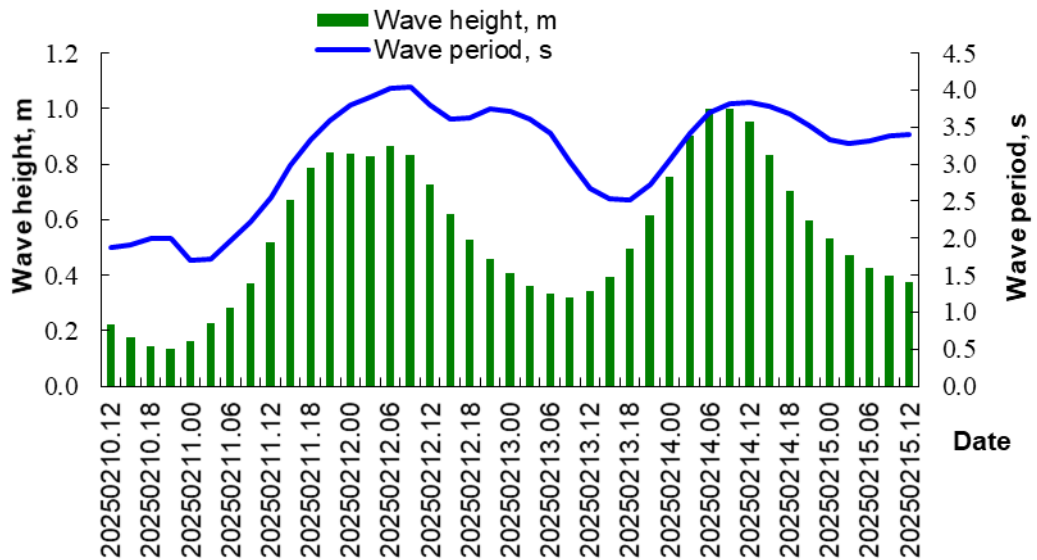


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250210.12	0.22	SW	1.8	3	SW
20250210.15	0.19	SW	1.9	3	SW
20250210.18	0.16	W	2.0	2	E
20250210.21	0.17	W	1.9	3	S
20250211.00	0.22	W	1.7	5	S
20250211.03	0.30	W	1.9	5	S
20250211.06	0.33	W	2.1	5	S
20250211.09	0.43	W	2.3	6	E
20250211.12	0.61	W	2.7	8	E
20250211.15	0.79	NW	3.2	8	E
20250211.18	0.88	NW	3.4	8	E
20250211.21	0.88	NW	3.5	8	E
20250212.00	0.88	NW	3.5	7	SE
20250212.03	0.86	NW	3.6	7	SE
20250212.06	0.78	NW	3.5	6	SE
20250212.09	0.70	NW	3.3	6	E
20250212.12	0.65	NW	3.1	6	E
20250212.15	0.55	NW	3.1	4	E
20250212.18	0.45	NW	3.2	2	SE
20250212.21	0.38	NW	3.4	1	SE
20250213.00	0.33	NW	3.4	1	NE
20250213.03	0.29	W	3.3	2	W
20250213.06	0.25	W	3.1	3	W
20250213.09	0.23	W	2.9	2	W
20250213.12	0.22	W	2.7	1	W
20250213.15	0.22	SW	2.6	2	N
20250213.18	0.23	S	2.6	2	N
20250213.21	0.27	S	2.7	2	N
20250214.00	0.31	SE	2.9	2	S
20250214.03	0.38	SE	3.0	2	S
20250214.06	0.48	SE	3.1	3	S
20250214.09	0.57	SE	3.4	3	S
20250214.12	0.61	SE	3.7	3	S
20250214.15	0.62	SE	4.0	3	E
20250214.18	0.60	SE	4.1	3	SE
20250214.21	0.58	SE	3.8	3	E
20250215.00	0.57	SE	3.3	3	E
20250215.03	0.56	E	3.1	3	SW
20250215.06	0.50	E	3.1	2	N
20250215.09	0.42	SE	3.3	2	N
20250215.12	0.37	SE	3.5	3	NW

Wind condition in the Aktau

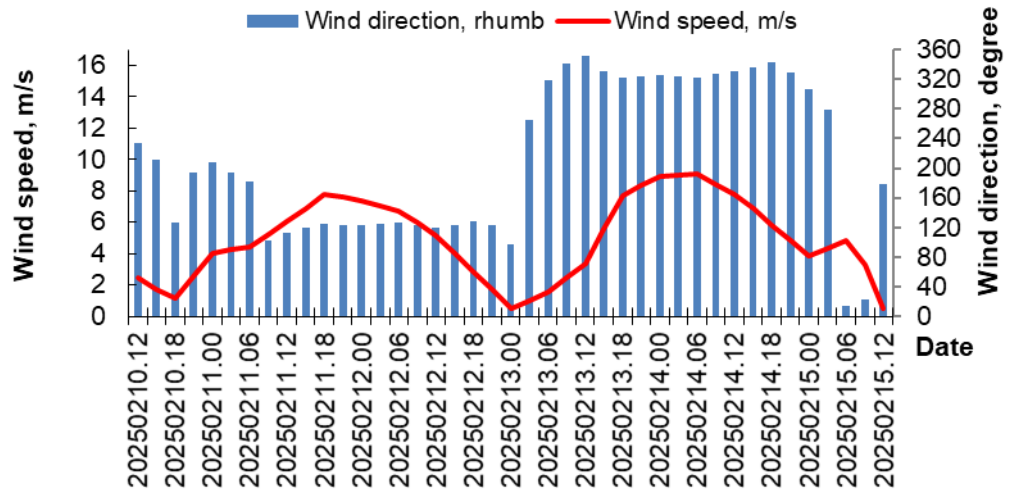


Wave condition in the Aktau

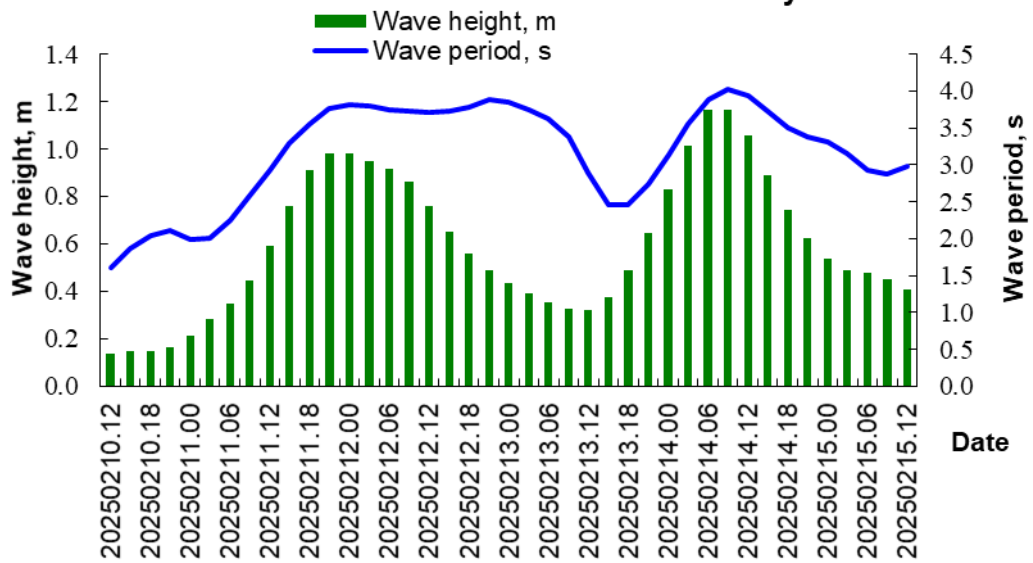


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250210.12	0.22	S	1.9	3	W
20250210.15	0.18	S	1.9	2	SW
20250210.18	0.14	S	2.0	1	SE
20250210.21	0.13	SW	2.0	3	S
20250211.00	0.16	SW	1.7	4	SW
20250211.03	0.23	W	1.7	4	S
20250211.06	0.28	W	2.0	4	S
20250211.09	0.37	W	2.2	6	E
20250211.12	0.52	NW	2.6	7	E
20250211.15	0.67	NW	3.0	7	E
20250211.18	0.79	NW	3.3	7	E
20250211.21	0.84	NW	3.6	6	E
20250212.00	0.84	NW	3.8	5	E
20250212.03	0.83	NW	3.9	5	E
20250212.06	0.87	NW	4.0	5	E
20250212.09	0.83	NW	4.0	5	E
20250212.12	0.73	NW	3.8	5	SE
20250212.15	0.62	NW	3.6	4	SE
20250212.18	0.53	NW	3.6	3	SE
20250212.21	0.46	NW	3.7	2	SE
20250213.00	0.41	NW	3.7	0	E
20250213.03	0.36	NW	3.6	2	W
20250213.06	0.33	NW	3.4	3	NW
20250213.09	0.32	NW	3.0	3	NW
20250213.12	0.34	SW	2.7	3	NW
20250213.15	0.39	S	2.5	5	NW
20250213.18	0.49	S	2.5	7	NW
20250213.21	0.61	S	2.7	8	NW
20250214.00	0.76	SE	3.1	8	NW
20250214.03	0.90	SE	3.4	8	NW
20250214.06	1.00	SE	3.7	8	NW
20250214.09	1.00	SE	3.8	8	NW
20250214.12	0.95	SE	3.8	7	N
20250214.15	0.84	SE	3.8	6	NW
20250214.18	0.70	SE	3.7	5	NW
20250214.21	0.60	SE	3.5	4	NW
20250215.00	0.53	SE	3.3	4	N
20250215.03	0.47	SE	3.3	3	NE
20250215.06	0.43	SE	3.3	1	E
20250215.09	0.40	SE	3.4	2	E
20250215.12	0.37	SE	3.4	1	SW

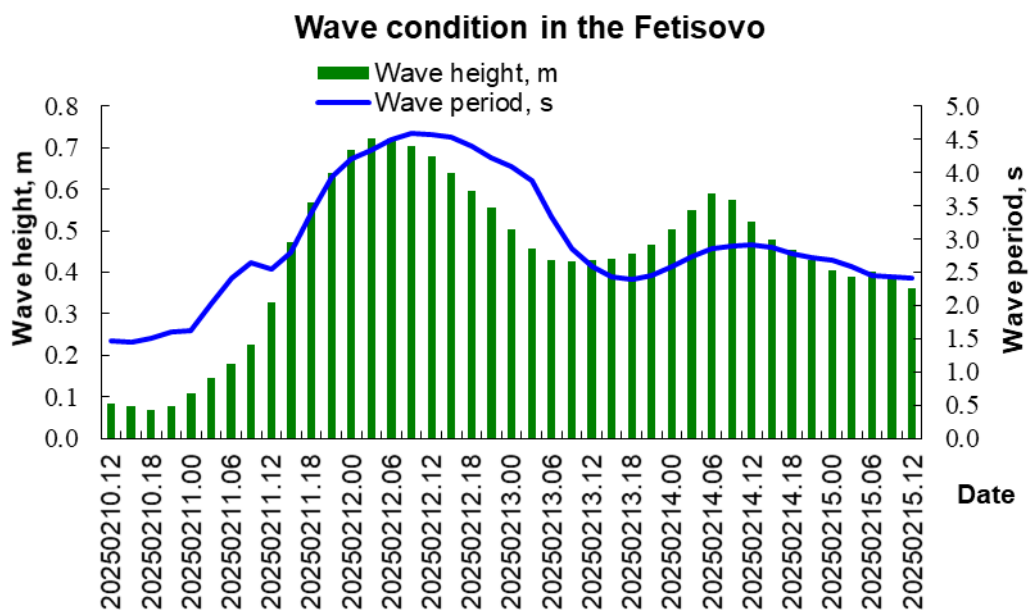
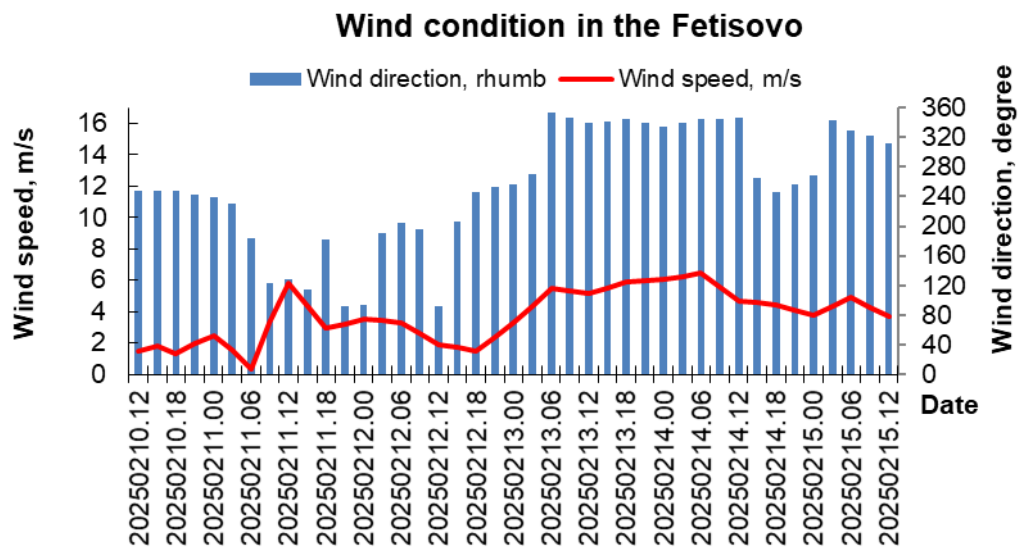
Wind condition in the Peschanyi



Wave condition in the Peschanyi

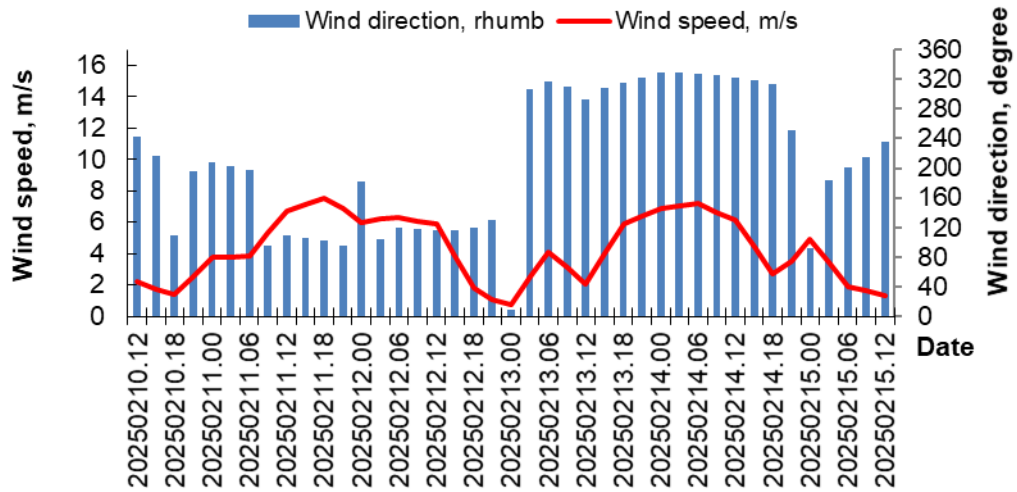


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250210.12	0.14	SW	1.6	2	SW
20250210.15	0.15	SW	1.9	2	SW
20250210.18	0.15	SW	2.0	1	SE
20250210.21	0.16	W	2.1	3	S
20250211.00	0.21	NW	2.0	4	SW
20250211.03	0.28	NW	2.0	4	S
20250211.06	0.35	NW	2.3	4	S
20250211.09	0.44	NW	2.6	5	E
20250211.12	0.59	NW	2.9	6	SE
20250211.15	0.76	NW	3.3	7	SE
20250211.18	0.91	NW	3.6	8	SE
20250211.21	0.98	NW	3.8	8	SE
20250212.00	0.98	NW	3.8	7	SE
20250212.03	0.95	NW	3.8	7	SE
20250212.06	0.92	NW	3.7	7	SE
20250212.09	0.86	NW	3.7	6	SE
20250212.12	0.76	NW	3.7	5	SE
20250212.15	0.65	NW	3.7	4	SE
20250212.18	0.56	NW	3.8	3	SE
20250212.21	0.49	NW	3.9	2	SE
20250213.00	0.43	NW	3.8	1	E
20250213.03	0.39	NW	3.7	1	W
20250213.06	0.36	NW	3.6	2	NW
20250213.09	0.33	NW	3.4	2	N
20250213.12	0.32	W	2.9	3	N
20250213.15	0.37	SW	2.5	6	NW
20250213.18	0.49	S	2.5	8	NW
20250213.21	0.65	SE	2.7	8	NW
20250214.00	0.83	SE	3.1	9	NW
20250214.03	1.01	SE	3.6	9	NW
20250214.06	1.16	SE	3.9	9	NW
20250214.09	1.16	SE	4.0	8	NW
20250214.12	1.06	SE	3.9	8	NW
20250214.15	0.89	SE	3.7	7	NW
20250214.18	0.74	SE	3.5	6	N
20250214.21	0.62	SE	3.4	5	NW
20250215.00	0.54	SE	3.3	4	NW
20250215.03	0.49	SE	3.1	4	W
20250215.06	0.48	SE	2.9	5	N
20250215.09	0.45	SE	2.9	3	N
20250215.12	0.41	SE	3.0	1	S

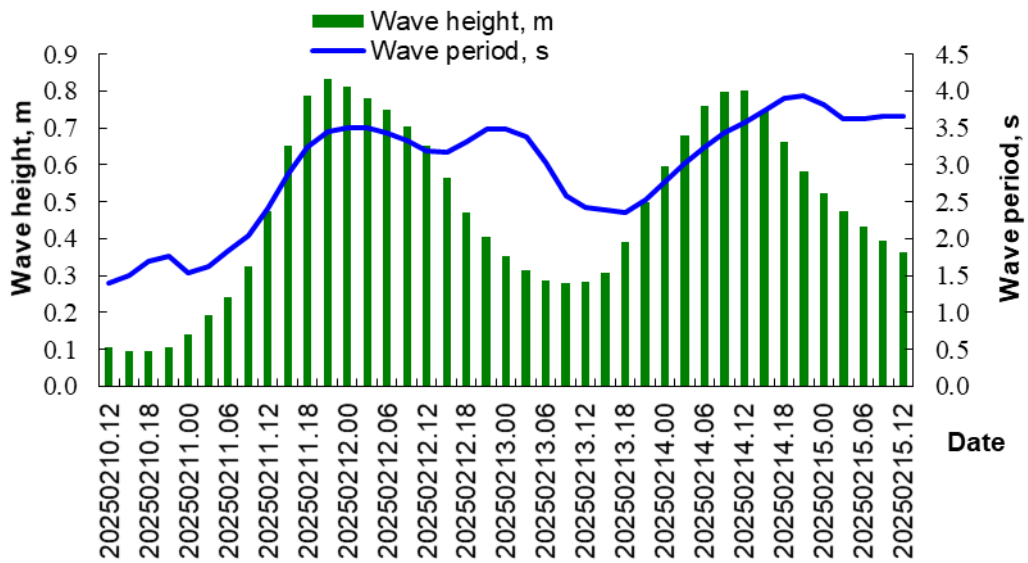


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250210.12	0.08	S	1.5	2	SW
20250210.15	0.08	S	1.4	2	SW
20250210.18	0.07	S	1.5	1	W
20250210.21	0.08	SW	1.6	2	SW
20250211.00	0.11	W	1.6	2	SW
20250211.03	0.15	NW	2.0	2	SW
20250211.06	0.18	N	2.4	0	S
20250211.09	0.23	N	2.6	3	SE
20250211.12	0.33	N	2.6	6	SE
20250211.15	0.47	NW	2.8	4	SE
20250211.18	0.57	N	3.4	3	S
20250211.21	0.64	N	3.9	3	E
20250212.00	0.69	N	4.2	4	E
20250212.03	0.72	N	4.3	3	S
20250212.06	0.72	N	4.5	3	SW
20250212.09	0.71	N	4.6	3	S
20250212.12	0.68	NW	4.6	2	E
20250212.15	0.64	NW	4.5	2	SW
20250212.18	0.60	NW	4.4	1	SW
20250212.21	0.56	NW	4.2	2	W
20250213.00	0.50	NW	4.1	3	W
20250213.03	0.46	NW	3.9	4	W
20250213.06	0.43	NW	3.3	5	N
20250213.09	0.43	NW	2.9	5	N
20250213.12	0.43	W	2.6	5	N
20250213.15	0.43	SW	2.4	6	N
20250213.18	0.45	S	2.4	6	N
20250213.21	0.47	S	2.4	6	N
20250214.00	0.50	SE	2.6	6	NW
20250214.03	0.55	SE	2.7	6	N
20250214.06	0.59	SE	2.9	6	N
20250214.09	0.57	SE	2.9	6	N
20250214.12	0.52	SE	2.9	5	N
20250214.15	0.48	SE	2.9	5	W
20250214.18	0.45	SE	2.8	4	SW
20250214.21	0.43	SE	2.7	4	W
20250215.00	0.40	SE	2.7	4	W
20250215.03	0.39	SE	2.6	4	N
20250215.06	0.40	SE	2.4	5	NW
20250215.09	0.39	SE	2.4	4	NW
20250215.12	0.36	SE	2.4	4	NW

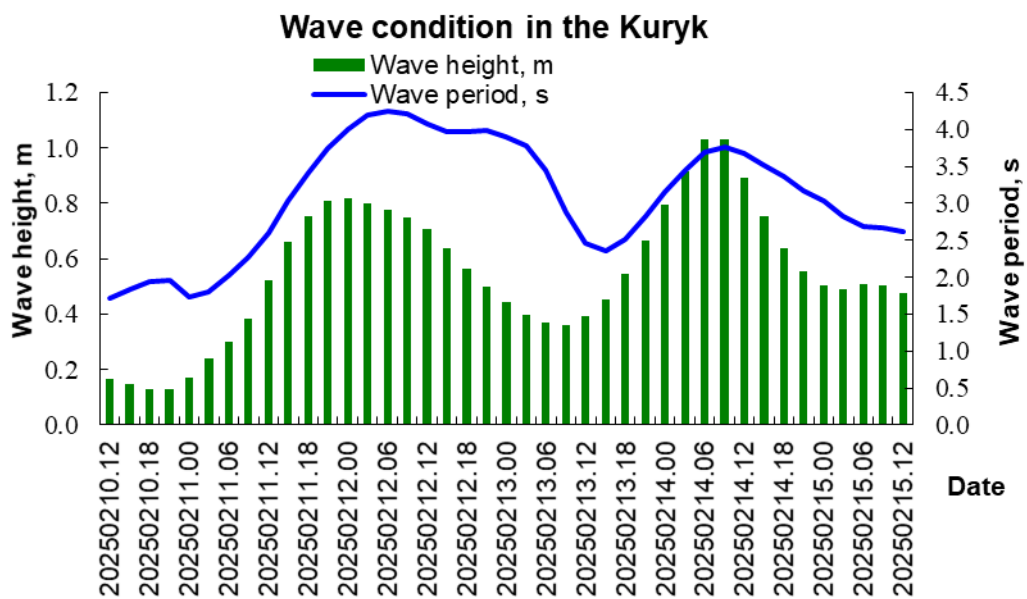
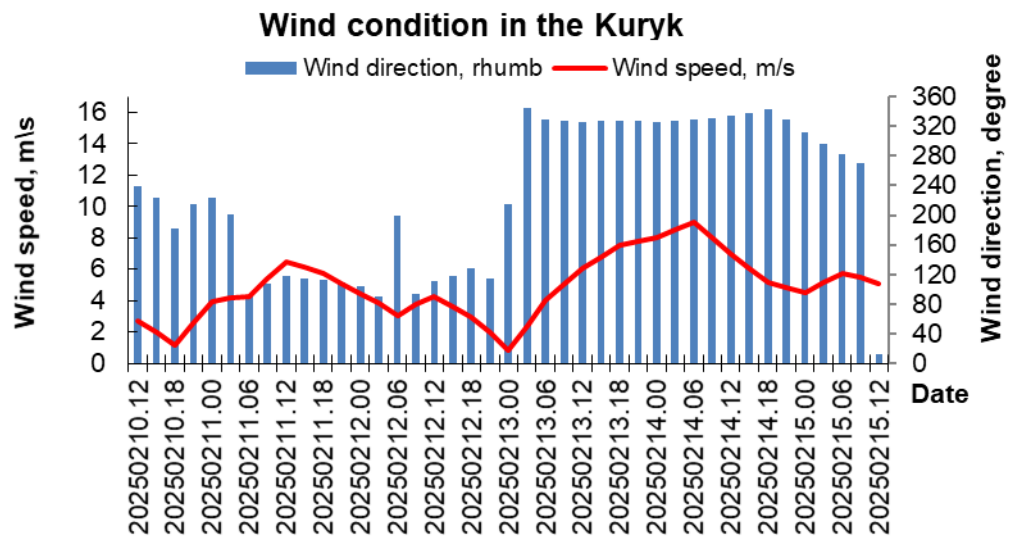
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250210.12	0.11	SW	1.4	2	SW
20250210.15	0.10	SW	1.5	2	SW
20250210.18	0.10	SW	1.7	1	E
20250210.21	0.11	SW	1.8	3	S
20250211.00	0.14	W	1.5	4	SW
20250211.03	0.19	W	1.6	4	SW
20250211.06	0.24	W	1.8	4	S
20250211.09	0.33	W	2.0	5	E
20250211.12	0.47	NW	2.4	7	E
20250211.15	0.65	NW	2.9	7	E
20250211.18	0.79	NW	3.2	7	E
20250211.21	0.83	NW	3.4	7	E
20250212.00	0.81	NW	3.5	6	S
20250212.03	0.78	NW	3.5	6	E
20250212.06	0.75	NW	3.4	6	SE
20250212.09	0.70	NW	3.3	6	SE
20250212.12	0.65	NW	3.2	6	SE
20250212.15	0.57	NW	3.2	4	SE
20250212.18	0.47	NW	3.3	2	SE
20250212.21	0.40	NW	3.5	1	SE
20250213.00	0.35	NW	3.5	1	N
20250213.03	0.31	NW	3.4	3	NW
20250213.06	0.29	NW	3.0	4	NW
20250213.09	0.28	W	2.6	3	NW
20250213.12	0.28	SW	2.4	2	NW
20250213.15	0.31	S	2.4	4	NW
20250213.18	0.39	SE	2.4	6	NW
20250213.21	0.50	SE	2.5	6	NW
20250214.00	0.59	SE	2.8	7	NW
20250214.03	0.68	SE	3.0	7	NW
20250214.06	0.76	SE	3.2	7	NW
20250214.09	0.80	SE	3.4	7	NW
20250214.12	0.80	SE	3.6	6	NW
20250214.15	0.74	SE	3.7	4	NW
20250214.18	0.66	SE	3.9	3	NW
20250214.21	0.58	SE	3.9	4	W
20250215.00	0.52	SE	3.8	5	E
20250215.03	0.47	SE	3.6	3	S
20250215.06	0.43	SE	3.6	2	S
20250215.09	0.39	E	3.7	2	SW
20250215.12	0.36	E	3.7	1	SW



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250210.12	0.16	SW	1.7	3	SW
20250210.15	0.15	SW	1.8	2	SW
20250210.18	0.13	SW	1.9	1	S
20250210.21	0.13	SW	2.0	3	SW
20250211.00	0.17	W	1.7	4	SW
20250211.03	0.24	W	1.8	4	S
20250211.06	0.30	W	2.0	4	E
20250211.09	0.38	NW	2.3	5	E
20250211.12	0.52	NW	2.6	6	SE
20250211.15	0.66	NW	3.0	6	SE
20250211.18	0.75	NW	3.4	6	SE
20250211.21	0.81	NW	3.7	5	E
20250212.00	0.82	NW	4.0	4	E
20250212.03	0.80	NW	4.2	4	E
20250212.06	0.78	NW	4.2	3	S
20250212.09	0.75	NW	4.2	4	E
20250212.12	0.71	NW	4.1	4	E
20250212.15	0.64	NW	4.0	4	SE
20250212.18	0.56	NW	4.0	3	SE
20250212.21	0.50	NW	4.0	2	SE
20250213.00	0.44	NW	3.9	1	SW
20250213.03	0.40	NW	3.8	2	N
20250213.06	0.37	NW	3.5	4	NW
20250213.09	0.36	NW	2.9	5	NW
20250213.12	0.39	W	2.5	6	NW
20250213.15	0.45	S	2.4	7	NW
20250213.18	0.55	S	2.5	7	NW
20250213.21	0.67	SE	2.8	8	NW
20250214.00	0.80	SE	3.2	8	NW
20250214.03	0.92	SE	3.5	9	NW
20250214.06	1.03	SE	3.7	9	NW
20250214.09	1.03	SE	3.8	8	NW
20250214.12	0.89	SE	3.7	7	NW
20250214.15	0.75	SE	3.5	6	NW
20250214.18	0.64	SE	3.4	5	N
20250214.21	0.56	SE	3.2	5	NW
20250215.00	0.50	SE	3.0	4	NW
20250215.03	0.49	SE	2.8	5	NW
20250215.06	0.51	SE	2.7	6	W
20250215.09	0.51	SE	2.7	5	W
20250215.12	0.48	E	2.6	5	N

**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: Yeltay A.G.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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