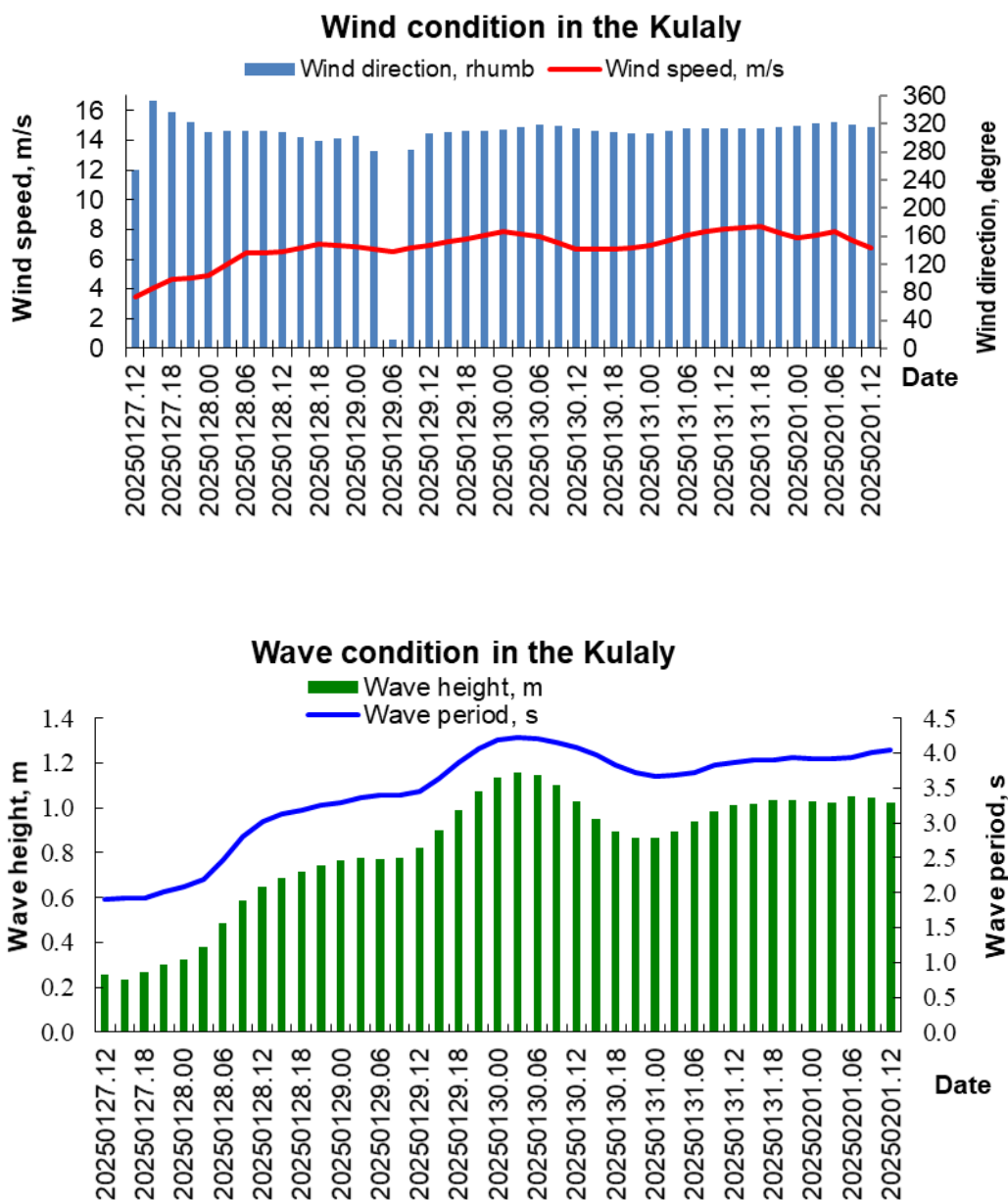




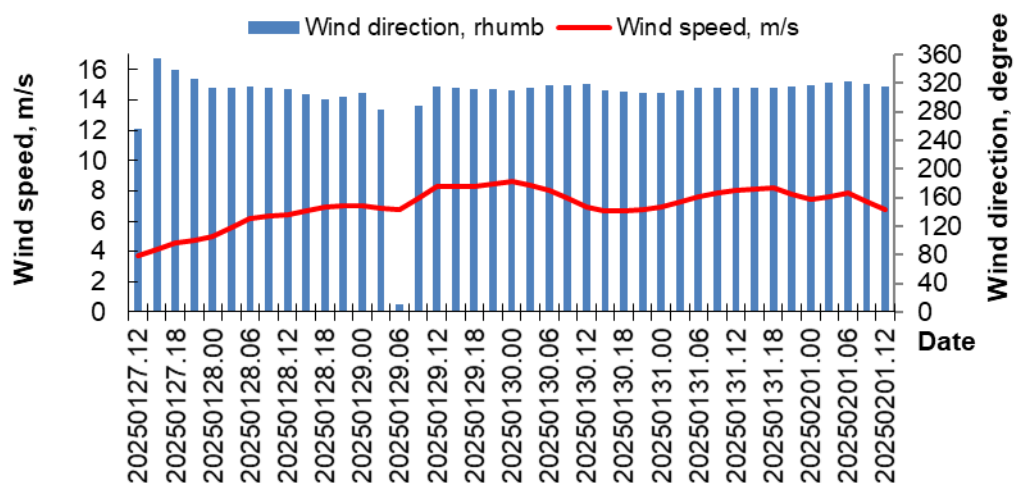
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
for the period January 27 – February 01, 2025.**

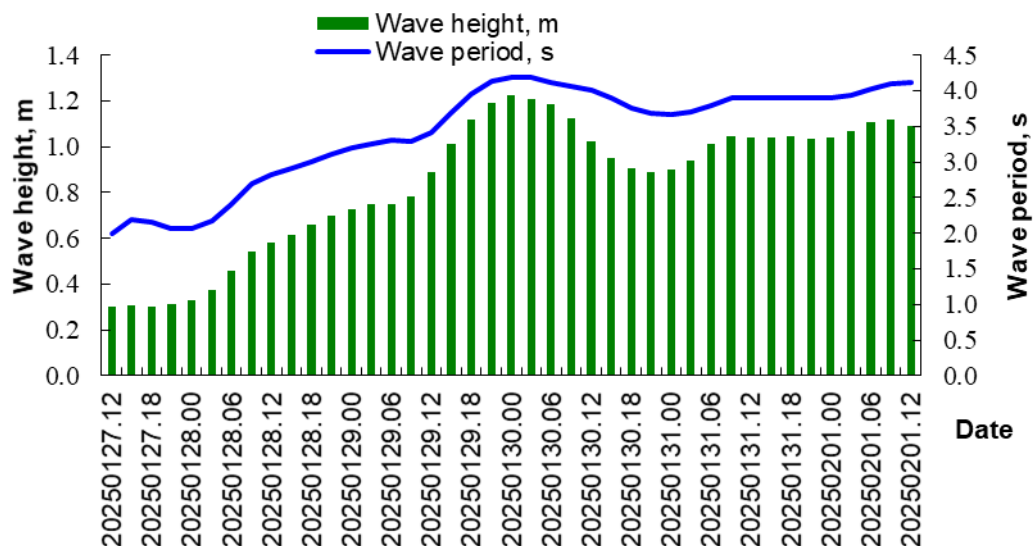


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250127.12	0.25	S	1.9	3	W
20250127.15	0.24	S	1.9	4	N
20250127.18	0.27	S	1.9	5	NW
20250127.21	0.30	SE	2.0	5	NW
20250128.00	0.33	SE	2.1	5	NW
20250128.03	0.38	SE	2.2	6	NW
20250128.06	0.49	SE	2.5	6	NW
20250128.09	0.59	SE	2.8	6	NW
20250128.12	0.65	SE	3.0	7	NW
20250128.15	0.69	E	3.1	7	NW
20250128.18	0.72	E	3.2	7	NW
20250128.21	0.74	E	3.2	7	NW
20250129.00	0.76	E	3.3	7	NW
20250129.03	0.78	E	3.4	7	W
20250129.06	0.77	E	3.4	7	N
20250129.09	0.78	E	3.4	7	W
20250129.12	0.82	E	3.4	7	NW
20250129.15	0.90	E	3.6	7	NW
20250129.18	0.99	E	3.9	7	NW
20250129.21	1.07	E	4.1	8	NW
20250130.00	1.14	E	4.2	8	NW
20250130.03	1.15	E	4.2	8	NW
20250130.06	1.14	SE	4.2	8	NW
20250130.09	1.10	SE	4.2	7	NW
20250130.12	1.03	SE	4.1	7	NW
20250130.15	0.95	SE	4.0	7	NW
20250130.18	0.90	SE	3.8	7	NW
20250130.21	0.87	SE	3.7	7	NW
20250131.00	0.87	SE	3.7	7	NW
20250131.03	0.89	SE	3.7	7	NW
20250131.06	0.94	SE	3.7	8	NW
20250131.09	0.98	SE	3.8	8	NW
20250131.12	1.01	SE	3.9	8	NW
20250131.15	1.02	SE	3.9	8	NW
20250131.18	1.03	SE	3.9	8	NW
20250131.21	1.03	SE	3.9	8	NW
20250201.00	1.03	SE	3.9	7	NW
20250201.03	1.02	SE	3.9	8	NW
20250201.06	1.05	SE	3.9	8	NW
20250201.09	1.05	SE	4.0	7	NW
20250201.12	1.02	SE	4.0	7	NW

Wind condition in the Fort-Shevchenko

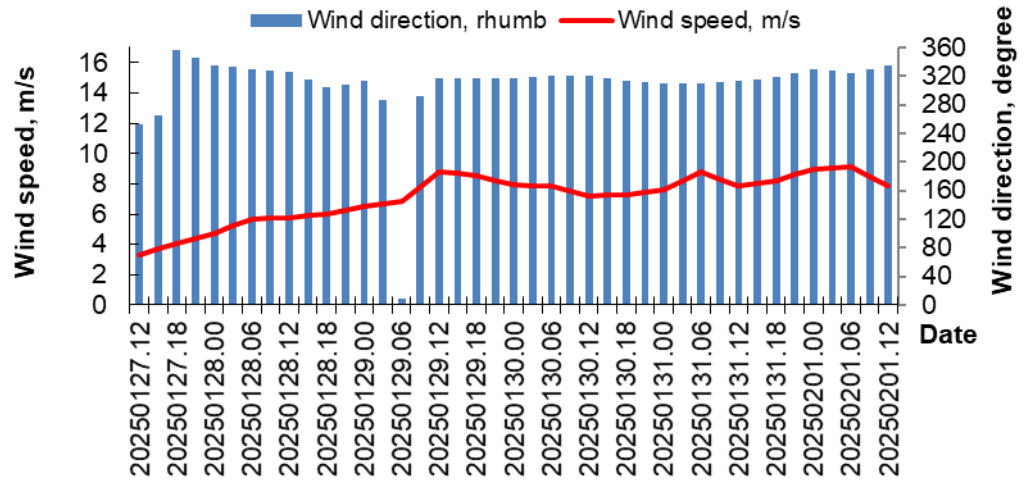


Wave condition in the Fort-Shevchenko

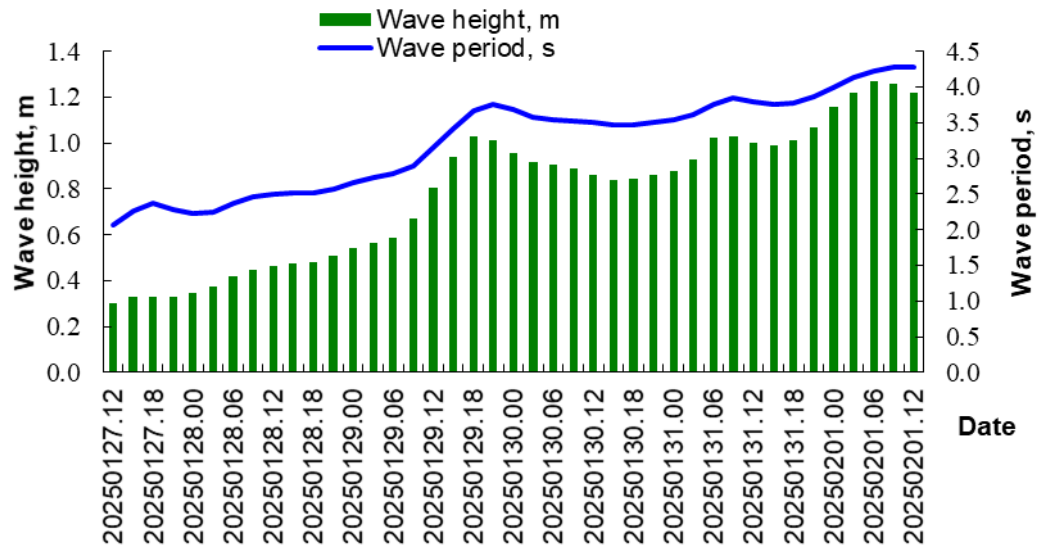


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250127.12	0.30	S	2.0	4	W
20250127.15	0.31	S	2.2	4	N
20250127.18	0.30	S	2.2	5	N
20250127.21	0.31	S	2.1	5	NW
20250128.00	0.33	SE	2.1	5	NW
20250128.03	0.38	SE	2.2	6	NW
20250128.06	0.46	SE	2.4	6	NW
20250128.09	0.54	SE	2.7	6	NW
20250128.12	0.58	SE	2.8	6	NW
20250128.15	0.61	SE	2.9	7	NW
20250128.18	0.66	SE	3.0	7	NW
20250128.21	0.70	SE	3.1	7	NW
20250129.00	0.73	SE	3.2	7	NW
20250129.03	0.75	E	3.3	7	W
20250129.06	0.75	E	3.3	7	N
20250129.09	0.78	E	3.3	7	W
20250129.12	0.89	E	3.4	8	NW
20250129.15	1.01	SE	3.7	8	NW
20250129.18	1.12	SE	4.0	8	NW
20250129.21	1.19	SE	4.1	8	NW
20250130.00	1.22	SE	4.2	9	NW
20250130.03	1.21	SE	4.2	8	NW
20250130.06	1.18	SE	4.1	8	NW
20250130.09	1.12	SE	4.1	7	NW
20250130.12	1.03	SE	4.0	7	NW
20250130.15	0.95	SE	3.9	7	NW
20250130.18	0.91	SE	3.8	7	NW
20250130.21	0.89	SE	3.7	7	NW
20250131.00	0.90	SE	3.7	7	NW
20250131.03	0.94	SE	3.7	7	NW
20250131.06	1.01	SE	3.8	8	NW
20250131.09	1.04	SE	3.9	8	NW
20250131.12	1.04	SE	3.9	8	NW
20250131.15	1.04	SE	3.9	8	NW
20250131.18	1.04	SE	3.9	8	NW
20250131.21	1.04	SE	3.9	8	NW
20250201.00	1.04	SE	3.9	7	NW
20250201.03	1.07	SE	3.9	8	NW
20250201.06	1.11	SE	4.0	8	NW
20250201.09	1.12	SE	4.1	7	NW
20250201.12	1.09	SE	4.1	7	NW

Wind condition in the Aktau

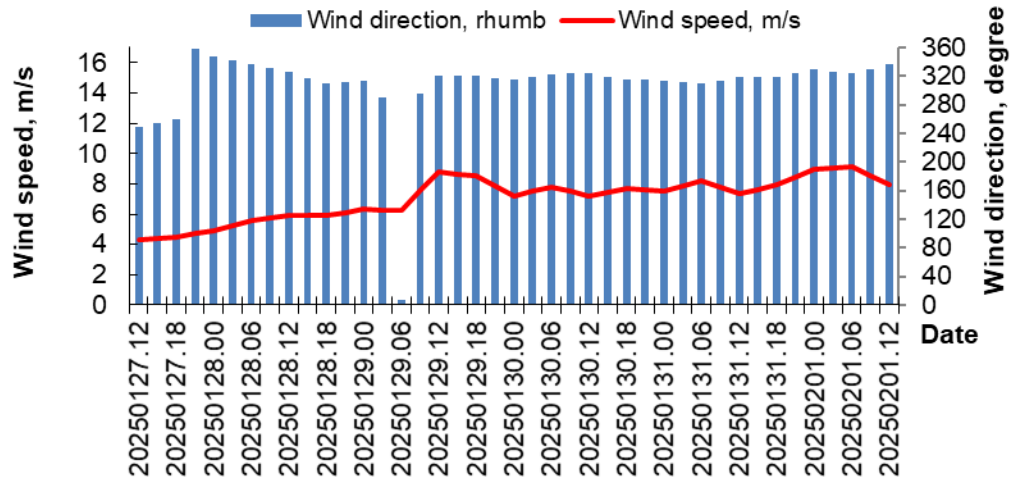


Wave condition in the Aktau

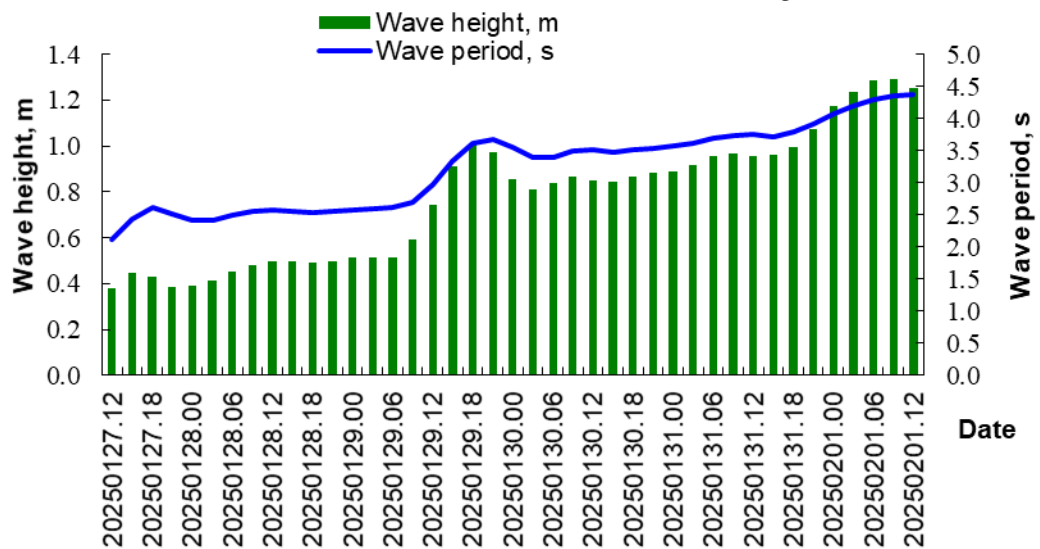


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250127.12	0.30	S	2.1	3	W
20250127.15	0.33	S	2.3	4	W
20250127.18	0.33	S	2.4	4	N
20250127.21	0.33	S	2.3	4	N
20250128.00	0.34	S	2.2	5	NW
20250128.03	0.38	S	2.3	5	NW
20250128.06	0.42	SE	2.4	6	NW
20250128.09	0.45	SE	2.5	6	NW
20250128.12	0.46	SE	2.5	6	NW
20250128.15	0.47	SE	2.5	6	NW
20250128.18	0.48	SE	2.5	6	NW
20250128.21	0.51	SE	2.6	6	NW
20250129.00	0.54	SE	2.7	7	NW
20250129.03	0.56	SE	2.7	7	W
20250129.06	0.58	E	2.8	7	N
20250129.09	0.67	E	2.9	8	W
20250129.12	0.80	SE	3.1	9	NW
20250129.15	0.94	SE	3.4	9	NW
20250129.18	1.03	SE	3.7	9	NW
20250129.21	1.01	SE	3.7	8	NW
20250130.00	0.96	SE	3.7	8	NW
20250130.03	0.92	SE	3.6	8	NW
20250130.06	0.90	SE	3.5	8	NW
20250130.09	0.89	SE	3.5	8	NW
20250130.12	0.86	SE	3.5	7	NW
20250130.15	0.84	SE	3.5	7	NW
20250130.18	0.84	SE	3.5	7	NW
20250130.21	0.86	SE	3.5	7	NW
20250131.00	0.88	SE	3.5	8	NW
20250131.03	0.93	SE	3.6	8	NW
20250131.06	1.02	SE	3.8	9	NW
20250131.09	1.03	SE	3.8	8	NW
20250131.12	1.00	SE	3.8	8	NW
20250131.15	0.99	SE	3.8	8	NW
20250131.18	1.01	SE	3.8	8	NW
20250131.21	1.07	SE	3.9	9	NW
20250201.00	1.16	SE	4.0	9	NW
20250201.03	1.22	SE	4.1	9	NW
20250201.06	1.27	SE	4.2	9	NW
20250201.09	1.26	SE	4.3	8	NW
20250201.12	1.22	SE	4.3	8	NW

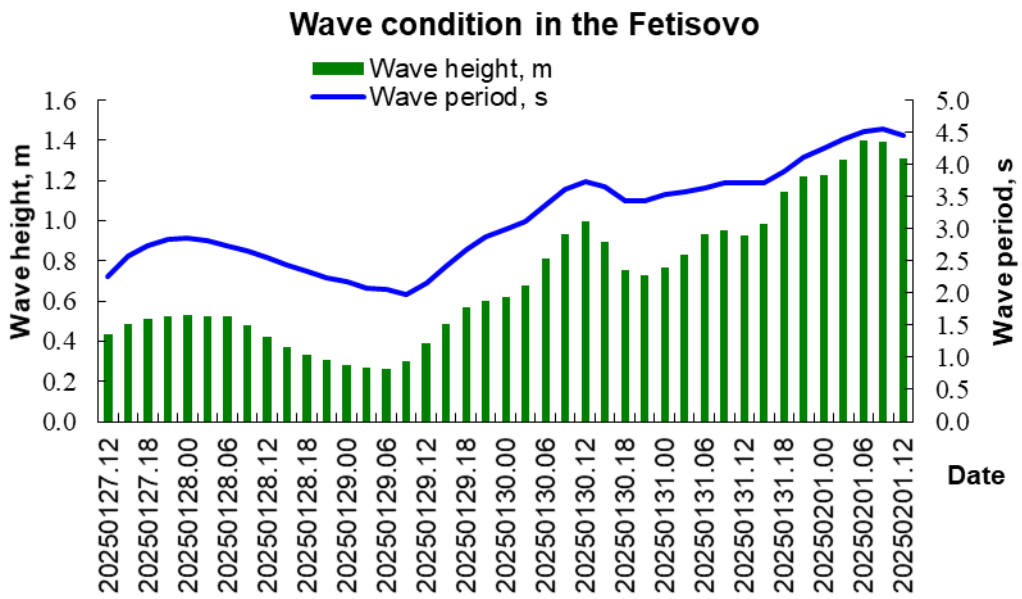
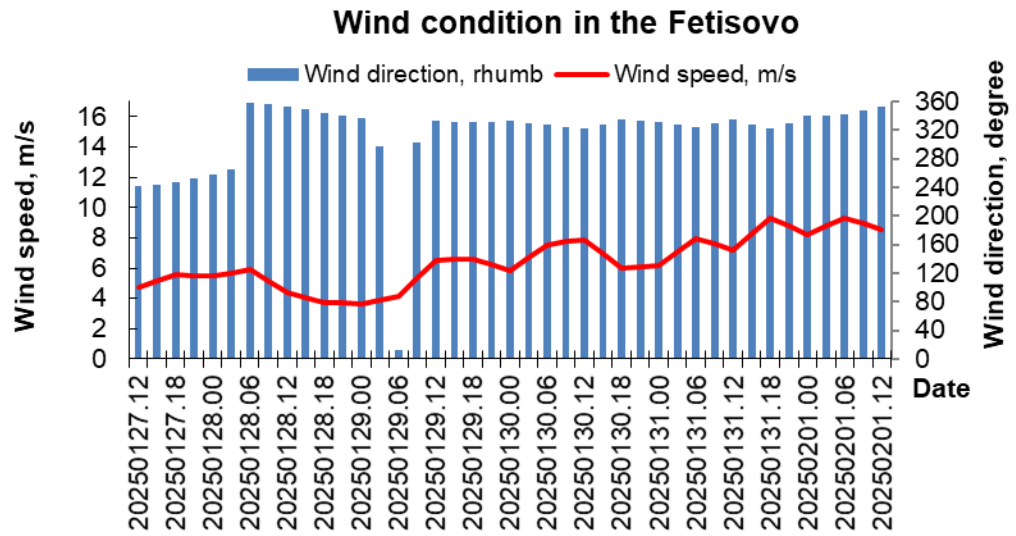
Wind condition in the Peschanyi



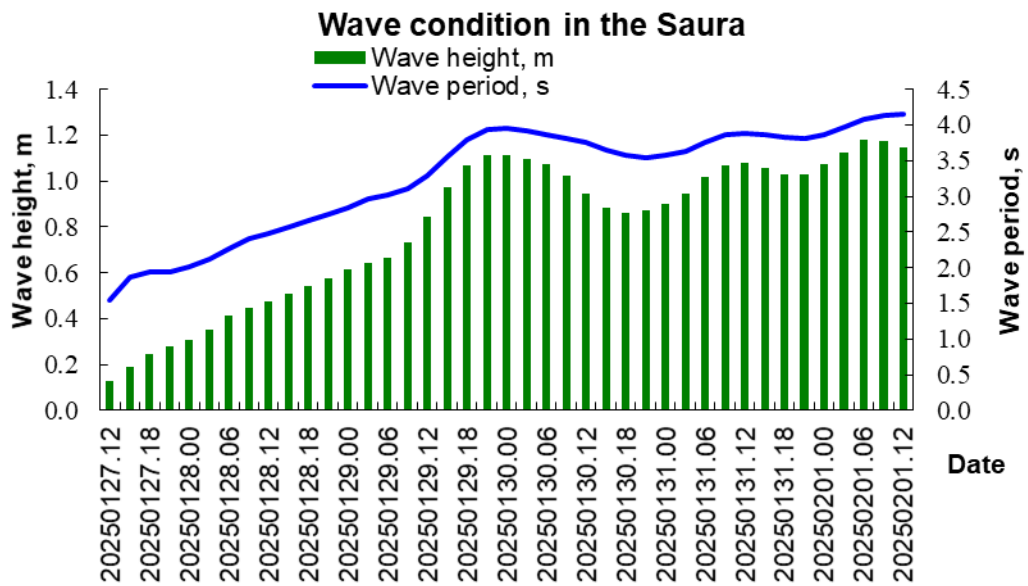
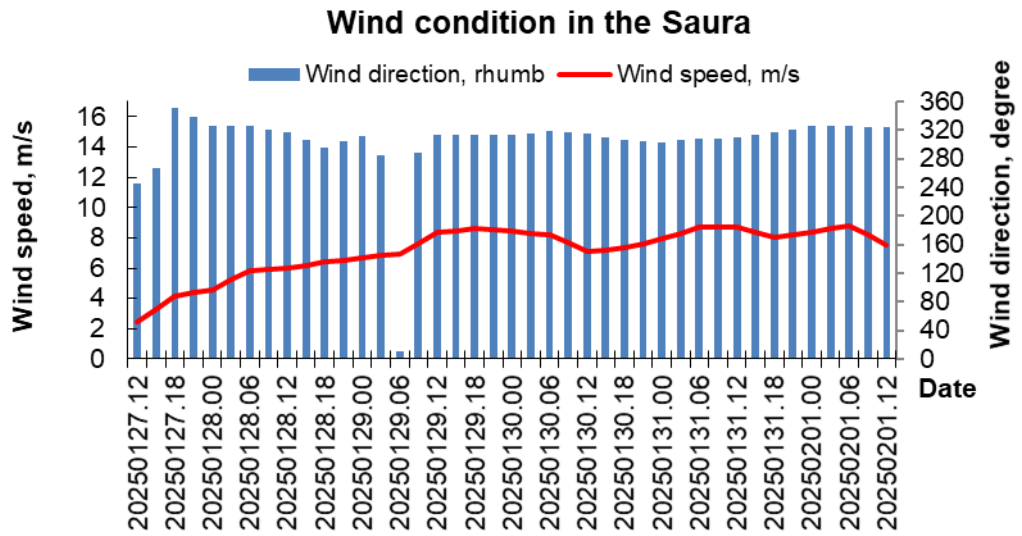
Wave condition in the Peschanyi



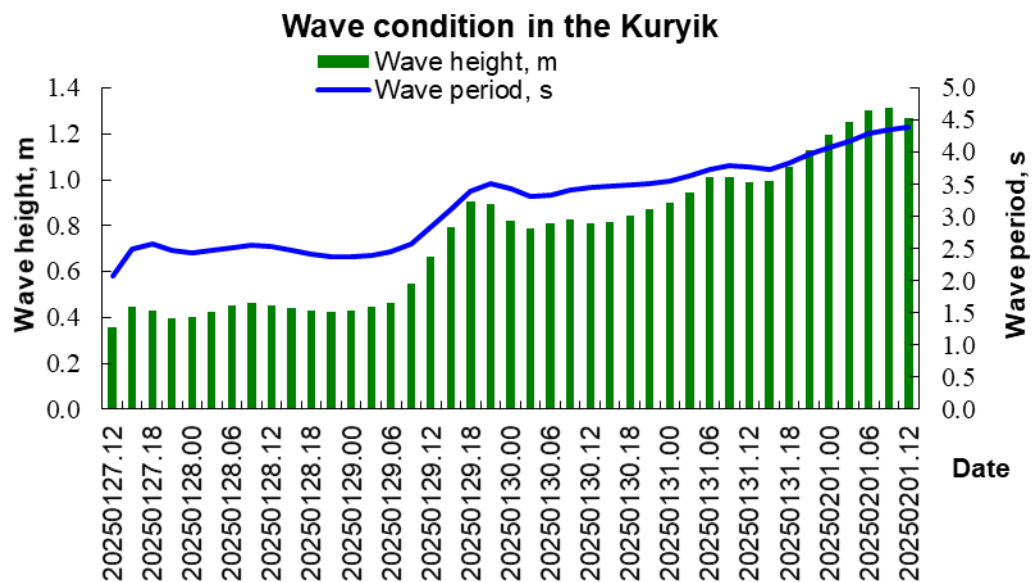
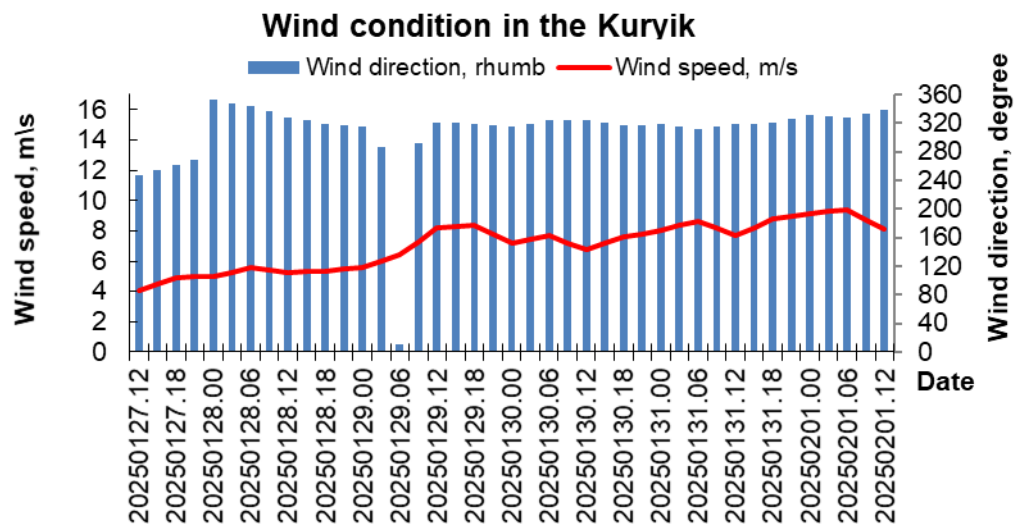
Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250127.12	0.38	S	2.1	4	W
20250127.15	0.45	S	2.4	4	W
20250127.18	0.43	S	2.6	5	W
20250127.21	0.38	S	2.5	5	N
20250128.00	0.39	S	2.4	5	N
20250128.03	0.41	S	2.4	5	N
20250128.06	0.45	S	2.5	6	NW
20250128.09	0.48	S	2.6	6	NW
20250128.12	0.50	S	2.6	6	NW
20250128.15	0.50	SE	2.6	6	NW
20250128.18	0.49	SE	2.5	6	NW
20250128.21	0.50	SE	2.5	6	NW
20250129.00	0.51	SE	2.6	6	NW
20250129.03	0.52	SE	2.6	6	W
20250129.06	0.51	SE	2.6	6	N
20250129.09	0.59	E	2.7	8	NW
20250129.12	0.74	SE	3.0	9	NW
20250129.15	0.91	SE	3.3	9	NW
20250129.18	1.01	SE	3.6	9	NW
20250129.21	0.97	SE	3.7	8	NW
20250130.00	0.86	SE	3.5	7	NW
20250130.03	0.81	SE	3.4	8	NW
20250130.06	0.84	SE	3.4	8	NW
20250130.09	0.86	SE	3.5	7	NW
20250130.12	0.85	SE	3.5	7	NW
20250130.15	0.84	SE	3.5	7	NW
20250130.18	0.87	SE	3.5	8	NW
20250130.21	0.88	SE	3.5	8	NW
20250131.00	0.89	SE	3.6	8	NW
20250131.03	0.92	SE	3.6	8	NW
20250131.06	0.96	SE	3.7	8	NW
20250131.09	0.97	SE	3.7	8	NW
20250131.12	0.95	SE	3.7	7	NW
20250131.15	0.96	SE	3.7	8	NW
20250131.18	1.00	SE	3.8	8	NW
20250131.21	1.07	SE	3.9	8	NW
20250201.00	1.17	SE	4.1	9	NW
20250201.03	1.24	SE	4.2	9	NW
20250201.06	1.28	SE	4.3	9	NW
20250201.09	1.29	SE	4.4	9	NW
20250201.12	1.25	SE	4.4	8	NW



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250127.12	0.44	SW	2.3	5	SW
20250127.15	0.49	SW	2.6	5	SW
20250127.18	0.51	SW	2.7	6	SW
20250127.21	0.52	S	2.8	6	W
20250128.00	0.53	S	2.9	6	W
20250128.03	0.53	S	2.8	6	W
20250128.06	0.52	S	2.7	6	N
20250128.09	0.48	S	2.7	5	N
20250128.12	0.42	S	2.6	4	N
20250128.15	0.37	S	2.4	4	N
20250128.18	0.33	S	2.3	4	N
20250128.21	0.31	S	2.2	4	N
20250129.00	0.28	S	2.2	4	NW
20250129.03	0.27	S	2.1	4	NW
20250129.06	0.26	SE	2.1	4	N
20250129.09	0.30	SE	2.0	5	NW
20250129.12	0.39	SE	2.2	7	NW
20250129.15	0.48	SE	2.4	7	NW
20250129.18	0.57	SE	2.7	7	NW
20250129.21	0.60	SE	2.9	6	NW
20250130.00	0.62	SE	3.0	6	NW
20250130.03	0.68	SE	3.1	7	NW
20250130.06	0.81	SE	3.4	8	NW
20250130.09	0.93	SE	3.6	8	NW
20250130.12	1.00	SE	3.7	8	NW
20250130.15	0.89	SE	3.6	7	NW
20250130.18	0.76	SE	3.4	6	NW
20250130.21	0.73	SE	3.4	6	NW
20250131.00	0.77	SE	3.5	6	NW
20250131.03	0.83	SE	3.6	7	NW
20250131.06	0.93	SE	3.6	8	NW
20250131.09	0.95	SE	3.7	8	NW
20250131.12	0.93	SE	3.7	7	NW
20250131.15	0.98	SE	3.7	8	NW
20250131.18	1.14	SE	3.9	9	NW
20250131.21	1.22	SE	4.1	9	NW
20250201.00	1.23	SE	4.2	8	N
20250201.03	1.30	SE	4.4	9	N
20250201.06	1.40	SE	4.5	9	N
20250201.09	1.39	SE	4.5	9	N
20250201.12	1.31	SE	4.5	9	N



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250127.12	0.13	SW	1.5	2	SW
20250127.15	0.19	SE	1.9	3	W
20250127.18	0.25	SE	1.9	4	N
20250127.21	0.28	SE	1.9	4	N
20250128.00	0.30	SE	2.0	5	NW
20250128.03	0.35	SE	2.1	5	NW
20250128.06	0.41	SE	2.3	6	NW
20250128.09	0.45	SE	2.4	6	NW
20250128.12	0.48	SE	2.5	6	NW
20250128.15	0.51	SE	2.6	6	NW
20250128.18	0.54	SE	2.7	6	NW
20250128.21	0.58	SE	2.8	7	NW
20250129.00	0.61	SE	2.8	7	NW
20250129.03	0.64	SE	3.0	7	W
20250129.06	0.66	E	3.0	7	N
20250129.09	0.73	E	3.1	8	W
20250129.12	0.84	SE	3.3	8	NW
20250129.15	0.97	SE	3.6	8	NW
20250129.18	1.07	SE	3.8	9	NW
20250129.21	1.11	SE	3.9	9	NW
20250130.00	1.11	SE	4.0	8	NW
20250130.03	1.09	SE	3.9	8	NW
20250130.06	1.07	SE	3.9	8	NW
20250130.09	1.02	SE	3.8	8	NW
20250130.12	0.94	SE	3.8	7	NW
20250130.15	0.88	SE	3.6	7	NW
20250130.18	0.86	SE	3.6	7	NW
20250130.21	0.87	SE	3.5	8	NW
20250131.00	0.90	SE	3.6	8	NW
20250131.03	0.95	SE	3.6	8	NW
20250131.06	1.02	SE	3.8	9	NW
20250131.09	1.07	SE	3.9	9	NW
20250131.12	1.08	SE	3.9	9	NW
20250131.15	1.05	SE	3.9	8	NW
20250131.18	1.03	SE	3.8	8	NW
20250131.21	1.03	SE	3.8	8	NW
20250201.00	1.07	SE	3.9	8	NW
20250201.03	1.12	SE	4.0	9	NW
20250201.06	1.18	SE	4.1	9	NW
20250201.09	1.17	SE	4.1	8	NW
20250201.12	1.14	SE	4.2	8	NW



Date time	Kuryik				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250127.12	0.35	SW	2.1	4	SW
20250127.15	0.45	S	2.5	4	W
20250127.18	0.43	S	2.6	5	W
20250127.21	0.40	S	2.5	5	W
20250128.00	0.40	S	2.4	5	N
20250128.03	0.42	S	2.5	5	N
20250128.06	0.45	S	2.5	6	N
20250128.09	0.47	S	2.6	5	NW
20250128.12	0.45	S	2.5	5	NW
20250128.15	0.44	SE	2.5	5	NW
20250128.18	0.43	SE	2.4	5	NW
20250128.21	0.42	SE	2.4	5	NW
20250129.00	0.43	SE	2.4	6	NW
20250129.03	0.44	SE	2.4	6	W
20250129.06	0.46	SE	2.5	6	N
20250129.09	0.55	E	2.6	7	W
20250129.12	0.66	SE	2.8	8	NW
20250129.15	0.79	SE	3.1	8	NW
20250129.18	0.90	SE	3.4	8	NW
20250129.21	0.89	SE	3.5	8	NW
20250130.00	0.82	SE	3.4	7	NW
20250130.03	0.79	SE	3.3	7	NW
20250130.06	0.81	SE	3.3	8	NW
20250130.09	0.83	SE	3.4	7	NW
20250130.12	0.81	SE	3.5	7	NW
20250130.15	0.81	SE	3.5	7	NW
20250130.18	0.85	SE	3.5	8	NW
20250130.21	0.87	SE	3.5	8	NW
20250131.00	0.90	SE	3.6	8	NW
20250131.03	0.94	SE	3.6	8	NW
20250131.06	1.01	SE	3.7	9	NW
20250131.09	1.01	SE	3.8	8	NW
20250131.12	0.99	SE	3.8	8	NW
20250131.15	1.00	SE	3.7	8	NW
20250131.18	1.06	SE	3.8	9	NW
20250131.21	1.13	SE	4.0	9	NW
20250201.00	1.20	SE	4.1	9	NW
20250201.03	1.25	SE	4.2	9	NW
20250201.06	1.30	SE	4.3	9	NW
20250201.09	1.31	SE	4.4	9	NW
20250201.12	1.27	SE	4.4	8	N

**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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