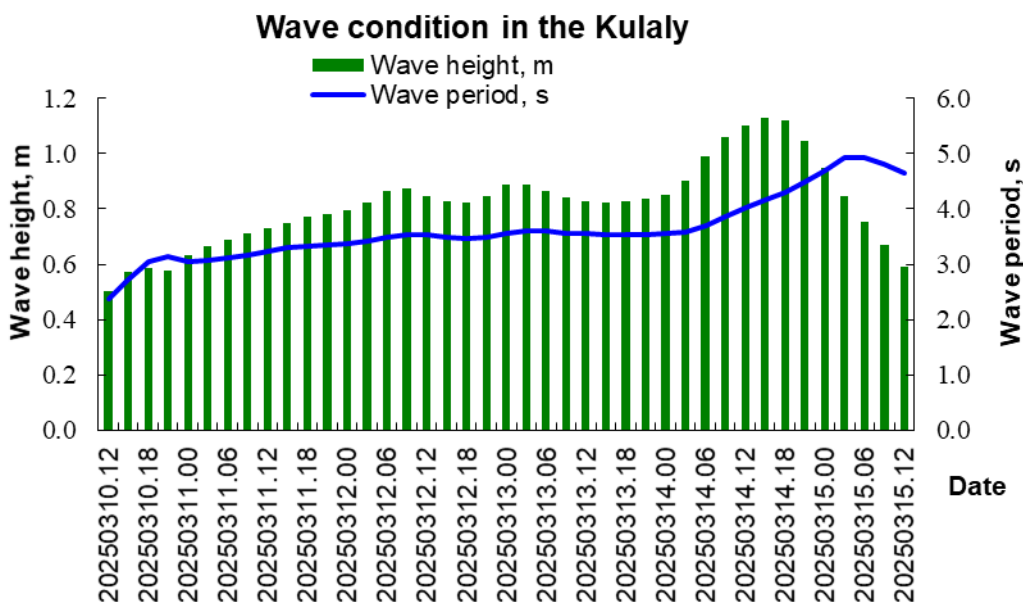
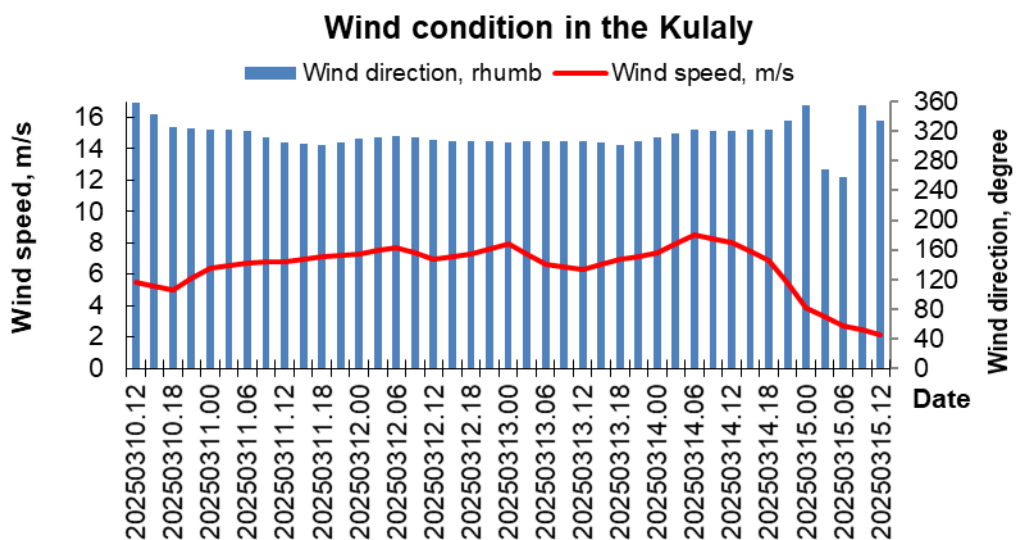




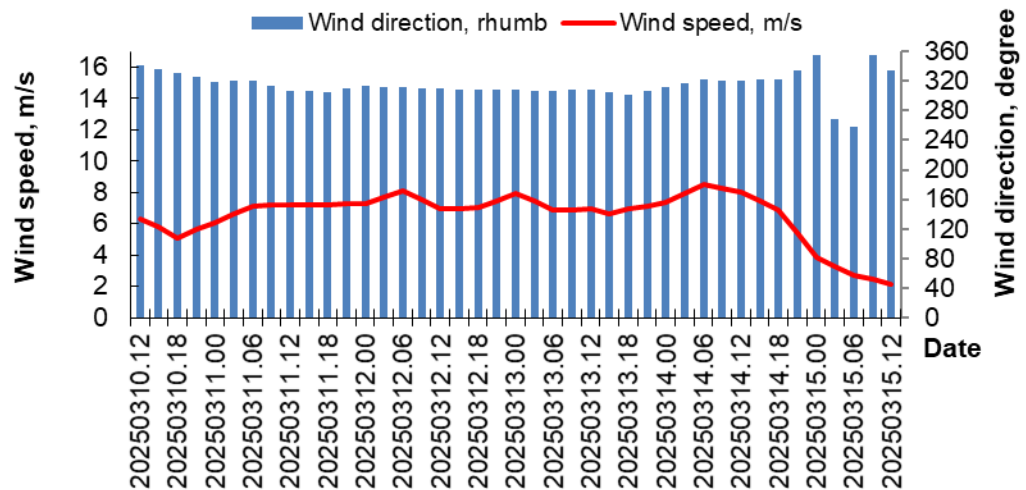
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 10 – 15 , 2025.**

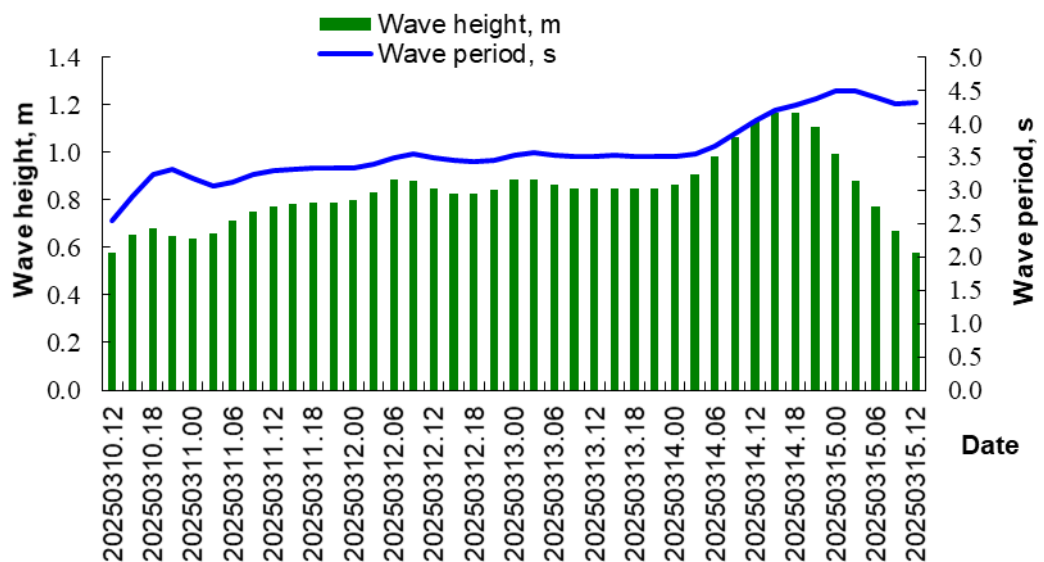


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250310.12	0.50	S	2.4	5	N
20250310.15	0.57	S	2.7	5	N
20250310.18	0.59	SE	3.0	5	NW
20250310.21	0.58	SE	3.1	6	NW
20250311.00	0.63	SE	3.0	6	NW
20250311.03	0.66	SE	3.1	7	NW
20250311.06	0.69	SE	3.1	7	NW
20250311.09	0.71	SE	3.2	7	NW
20250311.12	0.73	SE	3.2	7	NW
20250311.15	0.75	SE	3.3	7	NW
20250311.18	0.77	SE	3.3	7	NW
20250311.21	0.78	SE	3.4	7	NW
20250312.00	0.79	SE	3.4	7	NW
20250312.03	0.82	SE	3.4	8	NW
20250312.06	0.86	SE	3.5	8	NW
20250312.09	0.87	SE	3.5	7	NW
20250312.12	0.85	SE	3.5	7	NW
20250312.15	0.83	SE	3.5	7	NW
20250312.18	0.82	SE	3.5	7	NW
20250312.21	0.84	SE	3.5	8	NW
20250313.00	0.89	SE	3.6	8	NW
20250313.03	0.89	SE	3.6	7	NW
20250313.06	0.86	SE	3.6	7	NW
20250313.09	0.84	SE	3.6	6	NW
20250313.12	0.83	SE	3.6	6	NW
20250313.15	0.82	SE	3.5	7	NW
20250313.18	0.83	SE	3.5	7	NW
20250313.21	0.84	SE	3.5	7	NW
20250314.00	0.85	SE	3.5	7	NW
20250314.03	0.90	SE	3.6	8	NW
20250314.06	0.99	SE	3.7	9	NW
20250314.09	1.06	SE	3.9	8	NW
20250314.12	1.10	SE	4.0	8	NW
20250314.15	1.13	SE	4.2	7	NW
20250314.18	1.12	E	4.3	7	NW
20250314.21	1.05	E	4.5	5	NW
20250315.00	0.95	E	4.7	4	N
20250315.03	0.85	E	4.9	3	W
20250315.06	0.76	E	4.9	3	W
20250315.09	0.67	E	4.8	2	N
20250315.12	0.59	E	4.6	2	NW

Wind condition in the Fort-Shevchenko

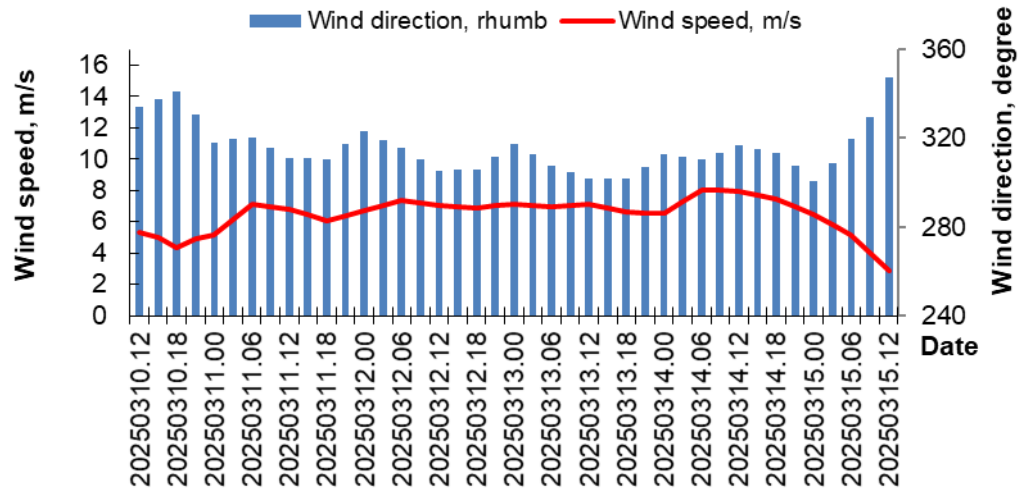


Wave condition in the Fort-Shevchenko

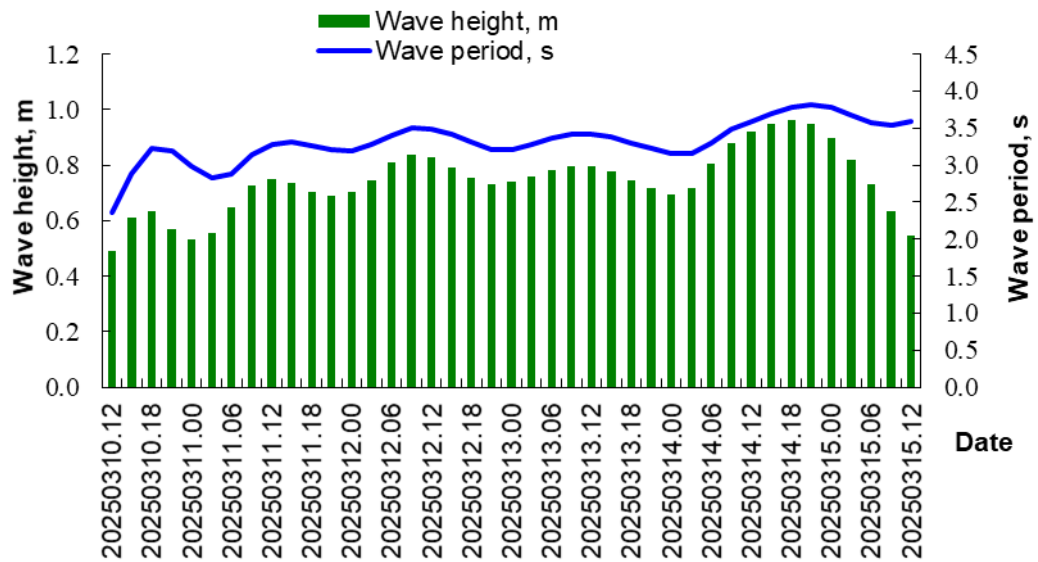


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250310.12	0.58	S	2.5	6	N
20250310.15	0.65	SE	2.9	6	NW
20250310.18	0.68	SE	3.2	5	NW
20250310.21	0.65	SE	3.3	6	NW
20250311.00	0.64	SE	3.2	6	NW
20250311.03	0.66	SE	3.1	7	NW
20250311.06	0.71	SE	3.1	7	NW
20250311.09	0.75	SE	3.2	7	NW
20250311.12	0.77	SE	3.3	7	NW
20250311.15	0.78	SE	3.3	7	NW
20250311.18	0.79	SE	3.3	7	NW
20250311.21	0.79	SE	3.3	7	NW
20250312.00	0.80	SE	3.3	7	NW
20250312.03	0.83	SE	3.4	8	NW
20250312.06	0.89	SE	3.5	8	NW
20250312.09	0.88	SE	3.5	8	NW
20250312.12	0.85	SE	3.5	7	NW
20250312.15	0.82	SE	3.5	7	NW
20250312.18	0.82	SE	3.4	7	NW
20250312.21	0.84	SE	3.5	7	NW
20250313.00	0.89	SE	3.5	8	NW
20250313.03	0.89	SE	3.6	7	NW
20250313.06	0.86	SE	3.5	7	NW
20250313.09	0.85	SE	3.5	7	NW
20250313.12	0.85	SE	3.5	7	NW
20250313.15	0.85	SE	3.5	7	NW
20250313.18	0.85	SE	3.5	7	NW
20250313.21	0.85	SE	3.5	7	NW
20250314.00	0.86	SE	3.5	7	NW
20250314.03	0.91	SE	3.5	8	NW
20250314.06	0.98	SE	3.7	9	NW
20250314.09	1.06	SE	3.9	8	NW
20250314.12	1.13	SE	4.0	8	NW
20250314.15	1.17	SE	4.2	7	NW
20250314.18	1.17	E	4.3	7	NW
20250314.21	1.11	E	4.4	5	NW
20250315.00	1.00	E	4.5	4	N
20250315.03	0.88	E	4.5	3	W
20250315.06	0.77	E	4.4	3	W
20250315.09	0.67	E	4.3	2	N
20250315.12	0.58	E	4.3	2	NW

Wind condition in the Aktau

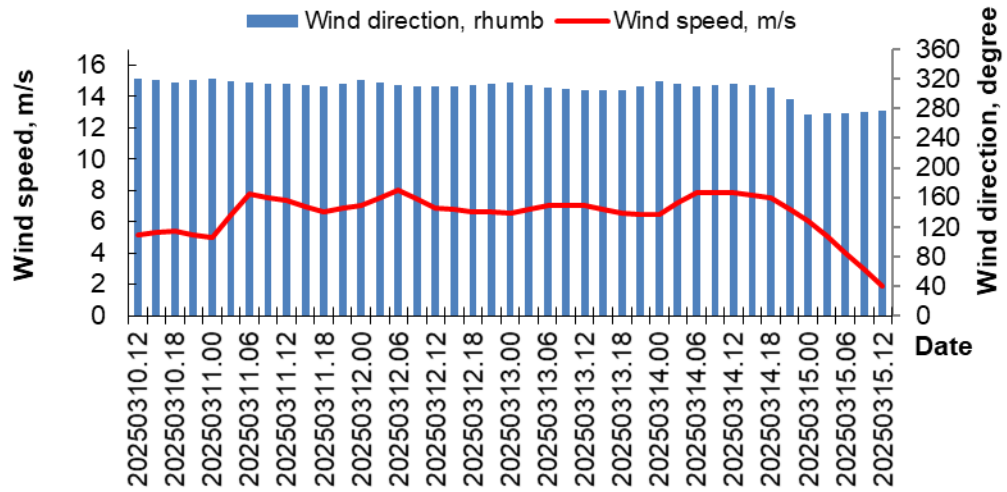


Wave condition in the Aktau

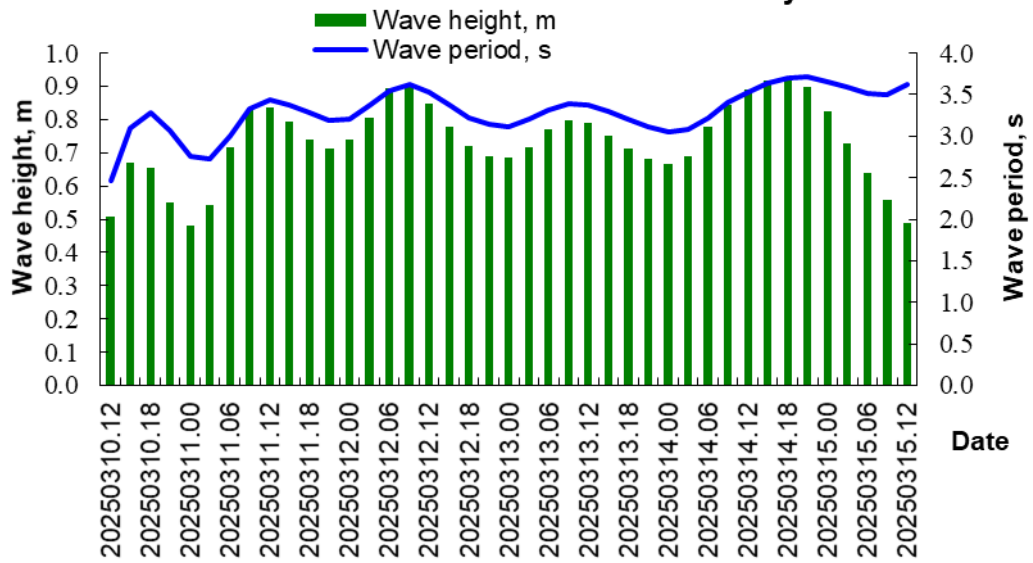


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250310.12	0.49	SE	2.4	5	NW
20250310.15	0.61	SE	2.9	5	NW
20250310.18	0.63	SE	3.2	4	N
20250310.21	0.57	SE	3.2	5	NW
20250311.00	0.53	SE	3.0	5	NW
20250311.03	0.56	SE	2.8	6	NW
20250311.06	0.65	SE	2.9	7	NW
20250311.09	0.72	SE	3.1	7	NW
20250311.12	0.75	SE	3.3	7	NW
20250311.15	0.74	SE	3.3	6	NW
20250311.18	0.71	SE	3.3	6	NW
20250311.21	0.69	SE	3.2	6	NW
20250312.00	0.70	SE	3.2	7	NW
20250312.03	0.75	SE	3.3	7	NW
20250312.06	0.81	SE	3.4	7	NW
20250312.09	0.84	SE	3.5	7	NW
20250312.12	0.83	SE	3.5	7	NW
20250312.15	0.79	SE	3.4	7	NW
20250312.18	0.75	SE	3.3	7	NW
20250312.21	0.73	SE	3.2	7	NW
20250313.00	0.74	SE	3.2	7	NW
20250313.03	0.76	SE	3.3	7	NW
20250313.06	0.78	SE	3.4	7	NW
20250313.09	0.80	SE	3.4	7	NW
20250313.12	0.80	SE	3.4	7	NW
20250313.15	0.78	SE	3.4	7	NW
20250313.18	0.74	SE	3.3	7	NW
20250313.21	0.72	SE	3.2	7	NW
20250314.00	0.70	SE	3.2	7	NW
20250314.03	0.72	SE	3.2	7	NW
20250314.06	0.81	SE	3.3	8	NW
20250314.09	0.88	SE	3.5	8	NW
20250314.12	0.92	SE	3.6	8	NW
20250314.15	0.95	SE	3.7	8	NW
20250314.18	0.96	E	3.8	7	NW
20250314.21	0.95	E	3.8	7	NW
20250315.00	0.90	E	3.8	6	NW
20250315.03	0.82	E	3.7	6	NW
20250315.06	0.73	E	3.6	5	NW
20250315.09	0.63	E	3.5	4	NW
20250315.12	0.55	E	3.6	3	N

Wind condition in the Peschanyi

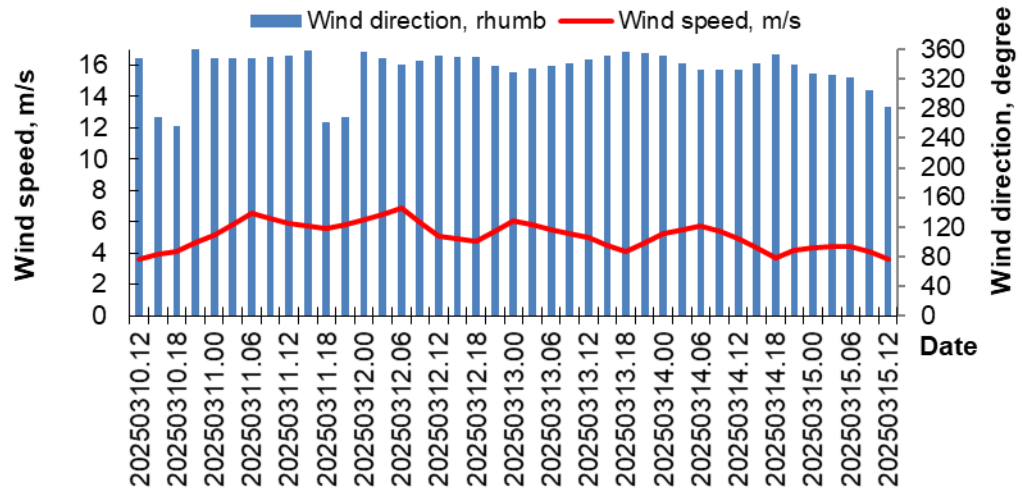


Wave condition in the Peschanyi

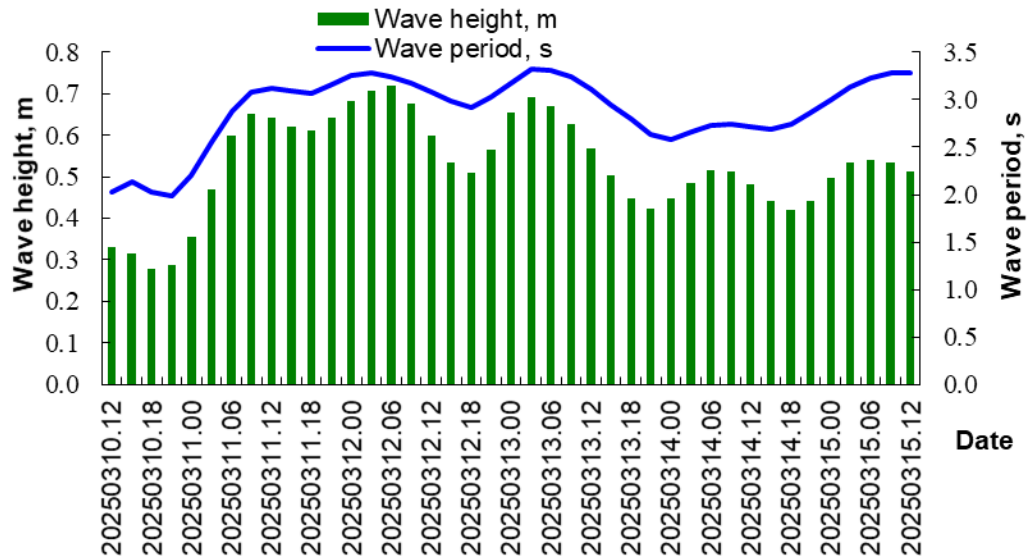


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250310.12	0.51	SE	2.5	5	NW
20250310.15	0.67	SE	3.1	5	NW
20250310.18	0.66	SE	3.3	5	NW
20250310.21	0.55	SE	3.1	5	NW
20250311.00	0.48	SE	2.8	5	NW
20250311.03	0.54	SE	2.7	6	NW
20250311.06	0.72	SE	3.0	8	NW
20250311.09	0.83	SE	3.3	8	NW
20250311.12	0.84	SE	3.4	7	NW
20250311.15	0.79	SE	3.4	7	NW
20250311.18	0.74	SE	3.3	7	NW
20250311.21	0.71	SE	3.2	7	NW
20250312.00	0.74	SE	3.2	7	NW
20250312.03	0.81	SE	3.4	8	NW
20250312.06	0.89	SE	3.5	8	NW
20250312.09	0.90	SE	3.6	7	NW
20250312.12	0.85	SE	3.5	7	NW
20250312.15	0.78	SE	3.4	7	NW
20250312.18	0.72	SE	3.2	7	NW
20250312.21	0.69	SE	3.1	7	NW
20250313.00	0.69	SE	3.1	7	NW
20250313.03	0.72	SE	3.2	7	NW
20250313.06	0.77	SE	3.3	7	NW
20250313.09	0.80	SE	3.4	7	NW
20250313.12	0.79	SE	3.4	7	NW
20250313.15	0.75	SE	3.3	7	NW
20250313.18	0.71	SE	3.2	7	NW
20250313.21	0.68	SE	3.1	6	NW
20250314.00	0.67	SE	3.1	6	NW
20250314.03	0.69	SE	3.1	7	NW
20250314.06	0.78	SE	3.2	8	NW
20250314.09	0.85	SE	3.4	8	NW
20250314.12	0.89	SE	3.5	8	NW
20250314.15	0.92	SE	3.6	8	NW
20250314.18	0.93	E	3.7	8	NW
20250314.21	0.90	E	3.7	7	W
20250315.00	0.82	E	3.7	6	W
20250315.03	0.73	E	3.6	5	W
20250315.06	0.64	E	3.5	4	W
20250315.09	0.56	E	3.5	3	W
20250315.12	0.49	E	3.6	2	W

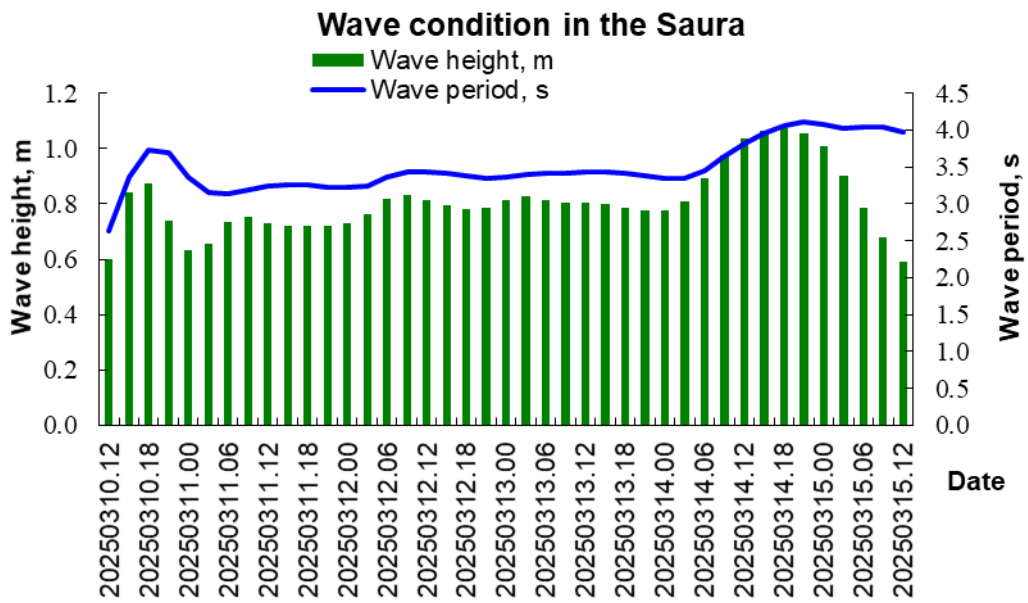
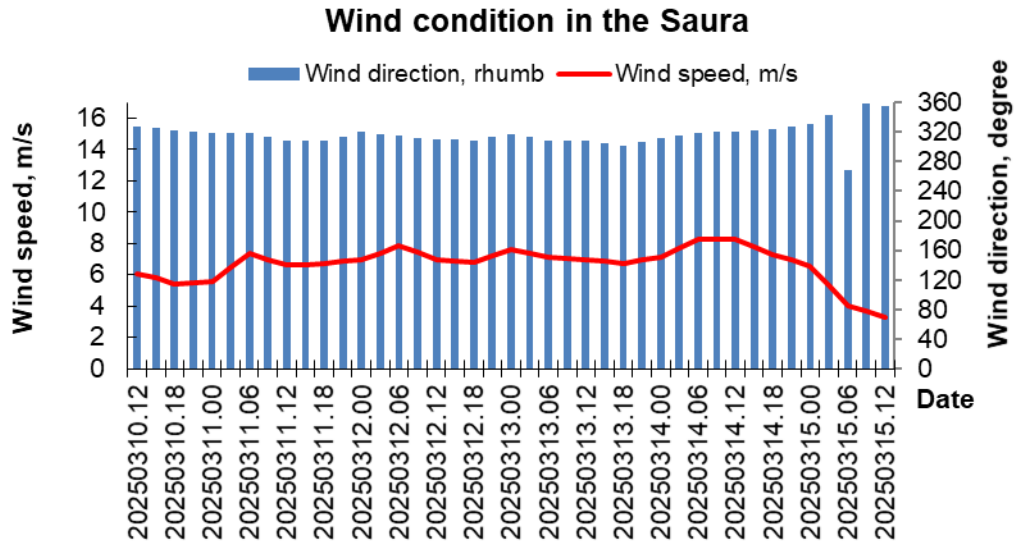
Wind condition in the Fetisovo



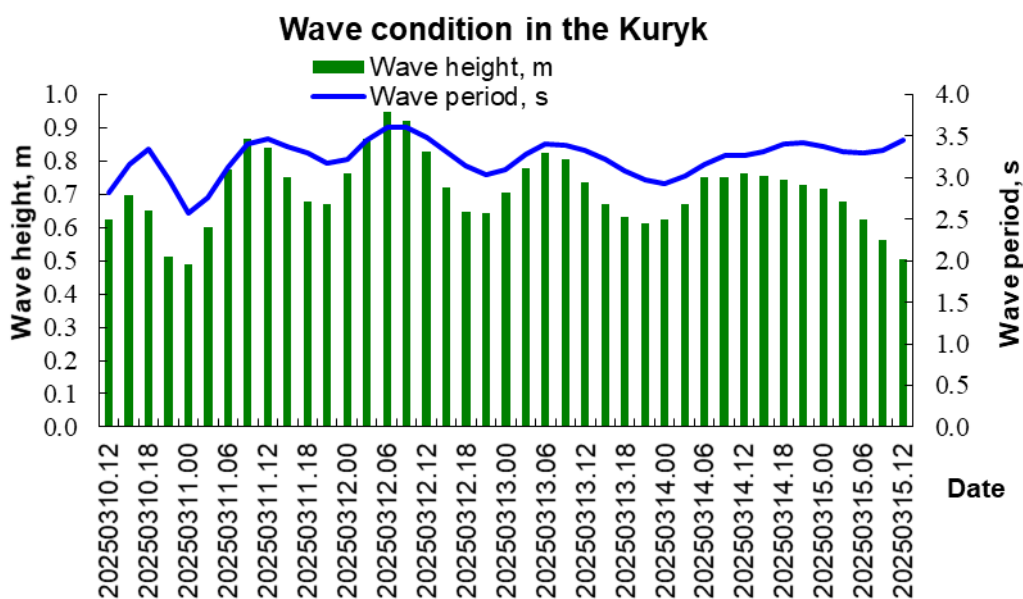
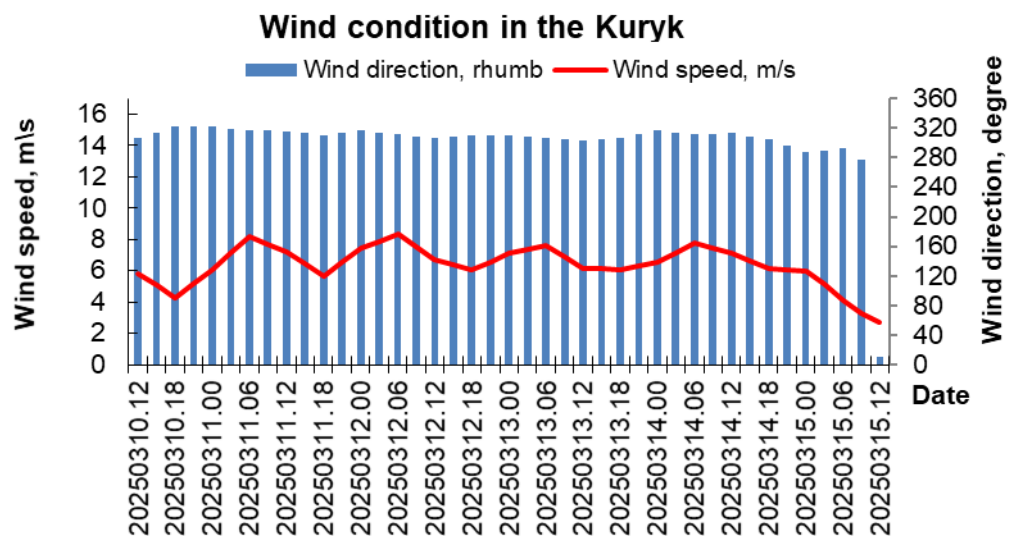
Wave condition in the Fetisovo



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250310.12	0.33	S	2.0	4	N
20250310.15	0.32	S	2.1	4	W
20250310.18	0.28	S	2.0	4	W
20250310.21	0.29	S	2.0	5	N
20250311.00	0.35	S	2.2	5	N
20250311.03	0.47	SE	2.6	6	N
20250311.06	0.60	SE	2.9	7	N
20250311.09	0.65	SE	3.1	6	N
20250311.12	0.64	SE	3.1	6	N
20250311.15	0.62	SE	3.1	6	N
20250311.18	0.61	SE	3.1	6	W
20250311.21	0.64	SE	3.2	6	W
20250312.00	0.68	SE	3.3	6	N
20250312.03	0.71	SE	3.3	6	N
20250312.06	0.72	SE	3.2	7	N
20250312.09	0.68	SE	3.2	6	N
20250312.12	0.60	SE	3.1	5	N
20250312.15	0.53	SE	3.0	5	N
20250312.18	0.51	SE	2.9	5	N
20250312.21	0.56	SE	3.0	5	N
20250313.00	0.66	SE	3.2	6	NW
20250313.03	0.69	SE	3.3	6	NW
20250313.06	0.67	SE	3.3	5	N
20250313.09	0.63	SE	3.2	5	N
20250313.12	0.57	SE	3.1	5	N
20250313.15	0.50	SE	2.9	5	N
20250313.18	0.45	SE	2.8	4	N
20250313.21	0.42	SE	2.6	5	N
20250314.00	0.45	SE	2.6	5	N
20250314.03	0.49	SE	2.7	6	N
20250314.06	0.52	SE	2.7	6	NW
20250314.09	0.51	SE	2.7	5	NW
20250314.12	0.48	SE	2.7	5	NW
20250314.15	0.44	SE	2.7	4	N
20250314.18	0.42	SE	2.7	4	N
20250314.21	0.44	SE	2.9	4	N
20250315.00	0.50	SE	3.0	4	NW
20250315.03	0.53	SE	3.1	4	NW
20250315.06	0.54	SE	3.2	4	NW
20250315.09	0.54	SE	3.3	4	NW
20250315.12	0.51	SE	3.3	4	W



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250310.12	0.60	SE	2.6	6	NW
20250310.15	0.84	SE	3.4	6	NW
20250310.18	0.88	SE	3.7	5	NW
20250310.21	0.74	SE	3.7	5	NW
20250311.00	0.63	SE	3.4	6	NW
20250311.03	0.66	SE	3.1	6	NW
20250311.06	0.73	SE	3.1	7	NW
20250311.09	0.75	SE	3.2	7	NW
20250311.12	0.73	SE	3.2	7	NW
20250311.15	0.72	SE	3.3	7	NW
20250311.18	0.72	SE	3.3	7	NW
20250311.21	0.72	SE	3.2	7	NW
20250312.00	0.73	SE	3.2	7	NW
20250312.03	0.76	SE	3.2	7	NW
20250312.06	0.82	SE	3.4	8	NW
20250312.09	0.83	SE	3.4	7	NW
20250312.12	0.81	SE	3.4	7	NW
20250312.15	0.80	SE	3.4	7	NW
20250312.18	0.78	SE	3.4	7	NW
20250312.21	0.78	SE	3.3	7	NW
20250313.00	0.81	SE	3.4	8	NW
20250313.03	0.83	SE	3.4	7	NW
20250313.06	0.81	SE	3.4	7	NW
20250313.09	0.81	SE	3.4	7	NW
20250313.12	0.80	SE	3.4	7	NW
20250313.15	0.80	SE	3.4	7	NW
20250313.18	0.78	SE	3.4	7	NW
20250313.21	0.78	SE	3.4	7	NW
20250314.00	0.78	SE	3.3	7	NW
20250314.03	0.81	SE	3.3	8	NW
20250314.06	0.89	SE	3.4	8	NW
20250314.09	0.97	SE	3.6	8	NW
20250314.12	1.04	SE	3.8	8	NW
20250314.15	1.06	SE	4.0	8	NW
20250314.18	1.07	E	4.1	7	NW
20250314.21	1.06	E	4.1	7	NW
20250315.00	1.01	E	4.1	7	NW
20250315.03	0.90	E	4.0	5	N
20250315.06	0.78	E	4.0	4	W
20250315.09	0.68	E	4.0	4	N
20250315.12	0.59	E	4.0	3	N



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250310.12	0.62	SE	2.8	6	NW
20250310.15	0.70	SE	3.2	5	NW
20250310.18	0.65	SE	3.3	4	NW
20250310.21	0.51	SE	3.0	5	NW
20250311.00	0.49	SE	2.6	6	NW
20250311.03	0.60	SE	2.8	7	NW
20250311.06	0.78	SE	3.1	8	NW
20250311.09	0.87	SE	3.4	8	NW
20250311.12	0.84	SE	3.5	7	NW
20250311.15	0.75	SE	3.4	6	NW
20250311.18	0.68	SE	3.3	6	NW
20250311.21	0.67	SE	3.2	7	NW
20250312.00	0.76	SE	3.2	7	NW
20250312.03	0.87	SE	3.4	8	NW
20250312.06	0.95	SE	3.6	8	NW
20250312.09	0.92	SE	3.6	8	NW
20250312.12	0.83	SE	3.5	7	NW
20250312.15	0.72	SE	3.3	6	NW
20250312.18	0.65	SE	3.1	6	NW
20250312.21	0.64	SE	3.0	7	NW
20250313.00	0.70	SE	3.1	7	NW
20250313.03	0.78	SE	3.3	7	NW
20250313.06	0.82	SE	3.4	8	NW
20250313.09	0.80	SE	3.4	7	NW
20250313.12	0.74	SE	3.3	6	NW
20250313.15	0.67	SE	3.2	6	NW
20250313.18	0.63	SE	3.1	6	NW
20250313.21	0.61	SE	3.0	6	NW
20250314.00	0.62	SE	2.9	7	NW
20250314.03	0.67	SE	3.0	7	NW
20250314.06	0.75	SE	3.2	8	NW
20250314.09	0.75	SE	3.3	7	NW
20250314.12	0.76	SE	3.3	7	NW
20250314.15	0.76	SE	3.3	7	NW
20250314.18	0.74	E	3.4	6	NW
20250314.21	0.73	E	3.4	6	NW
20250315.00	0.72	E	3.4	6	W
20250315.03	0.68	E	3.3	5	W
20250315.06	0.62	E	3.3	4	NW
20250315.09	0.56	E	3.3	3	W
20250315.12	0.51	E	3.5	3	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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