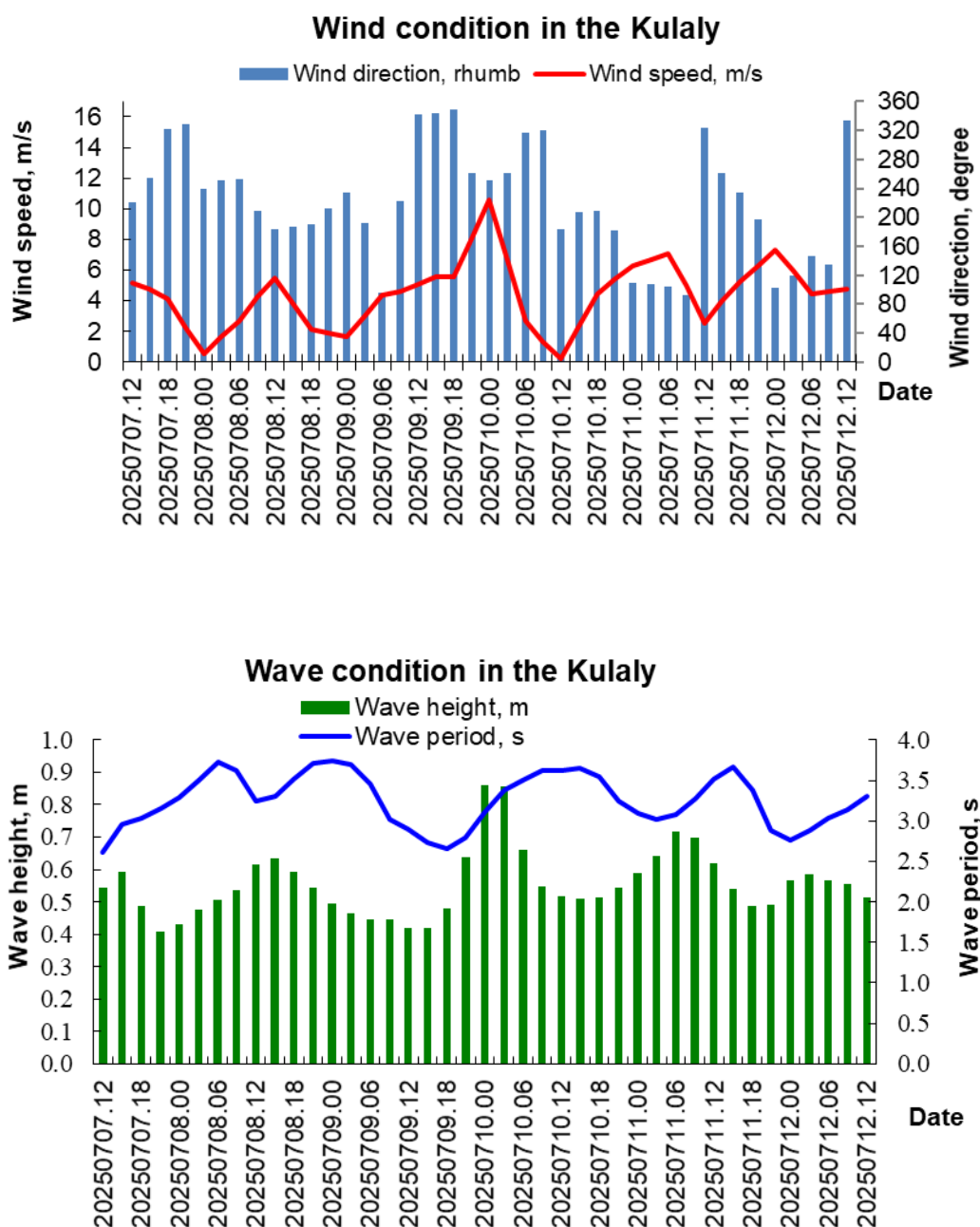




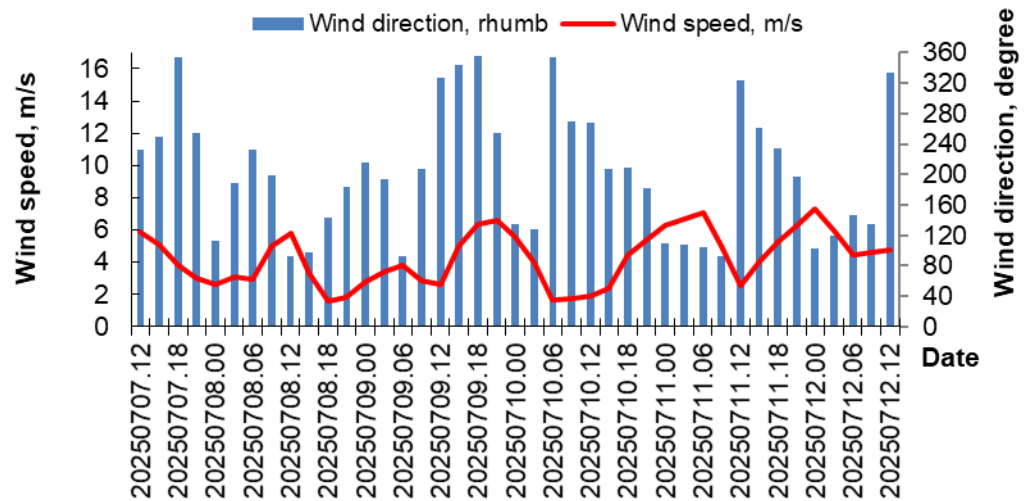
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period July 07– 12, 2025.**

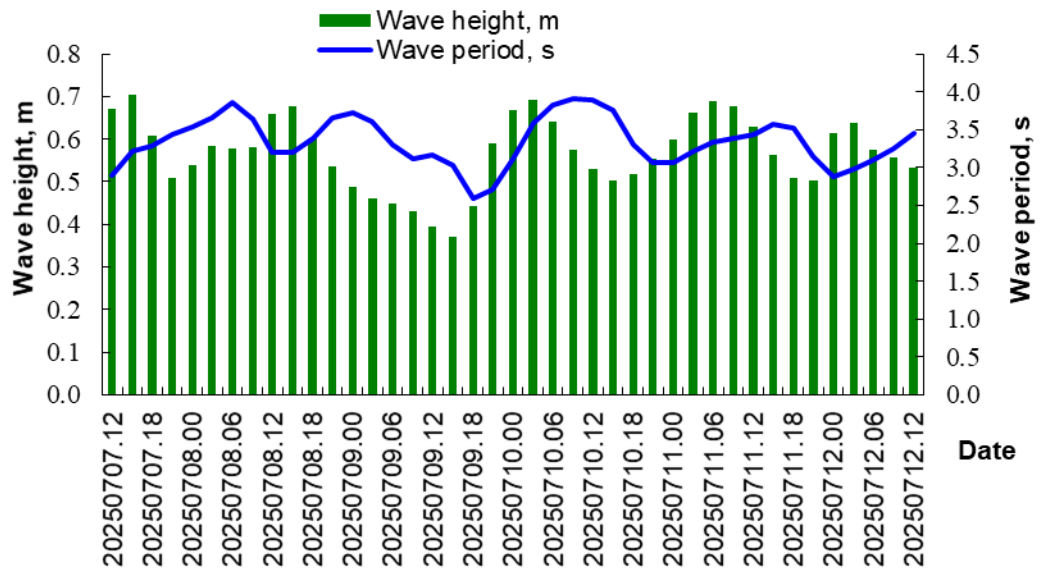


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250707.12	0.54	SW	2.6	5	SW
20250707.15	0.59	SW	3.0	5	W
20250707.18	0.49	SW	3.0	4	NW
20250707.21	0.41	S	3.2	2	NW
20250708.00	0.43	S	3.3	1	SW
20250708.03	0.48	S	3.5	2	W
20250708.06	0.50	SE	3.7	3	W
20250708.09	0.54	SE	3.6	4	SW
20250708.12	0.62	S	3.3	5	S
20250708.15	0.64	S	3.3	4	S
20250708.18	0.59	S	3.5	2	S
20250708.21	0.54	S	3.7	2	SW
20250709.00	0.50	S	3.7	2	SW
20250709.03	0.46	S	3.7	3	S
20250709.06	0.45	SW	3.5	4	E
20250709.09	0.45	SW	3.0	5	SW
20250709.12	0.42	SW	2.9	5	N
20250709.15	0.42	SW	2.7	6	N
20250709.18	0.48	SW	2.7	6	N
20250709.21	0.64	SW	2.8	8	W
20250710.00	0.86	SW	3.1	11	W
20250710.03	0.86	SW	3.4	7	W
20250710.06	0.66	SW	3.5	3	NW
20250710.09	0.55	SW	3.6	1	NW
20250710.12	0.52	SW	3.6	0	S
20250710.15	0.51	SW	3.7	2	SW
20250710.18	0.51	SW	3.5	4	SW
20250710.21	0.54	SW	3.2	5	S
20250711.00	0.59	SW	3.1	6	E
20250711.03	0.64	SW	3.0	7	E
20250711.06	0.72	W	3.1	7	E
20250711.09	0.70	W	3.3	5	E
20250711.12	0.62	W	3.5	3	NW
20250711.15	0.54	W	3.7	4	W
20250711.18	0.49	W	3.4	5	SW
20250711.21	0.49	W	2.9	6	S
20250712.00	0.57	W	2.8	7	E
20250712.03	0.59	W	2.9	6	SE
20250712.06	0.57	W	3.0	4	SE
20250712.09	0.56	W	3.1	5	SE
20250712.12	0.51	W	3.3	5	NW

Wind condition in the Fort-Shevchenko

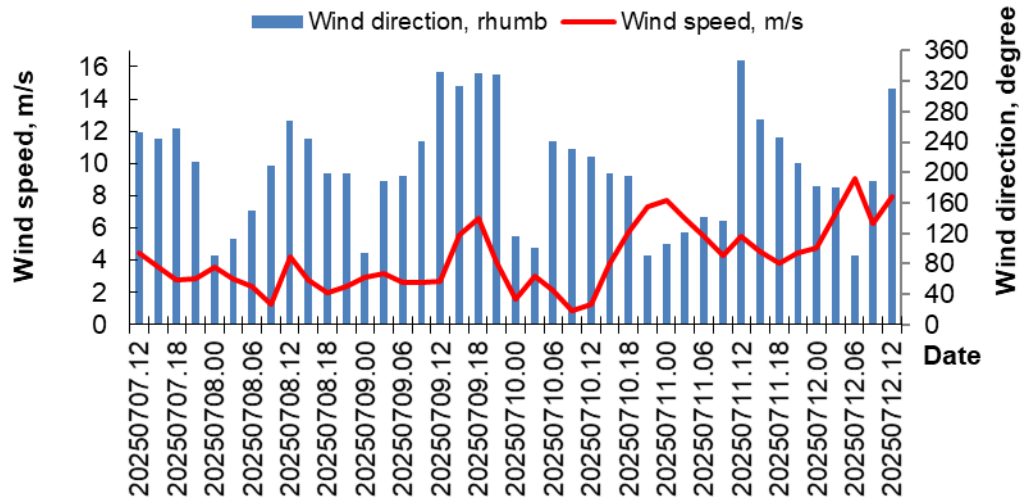


Wave condition in the Fort-Shevchenko

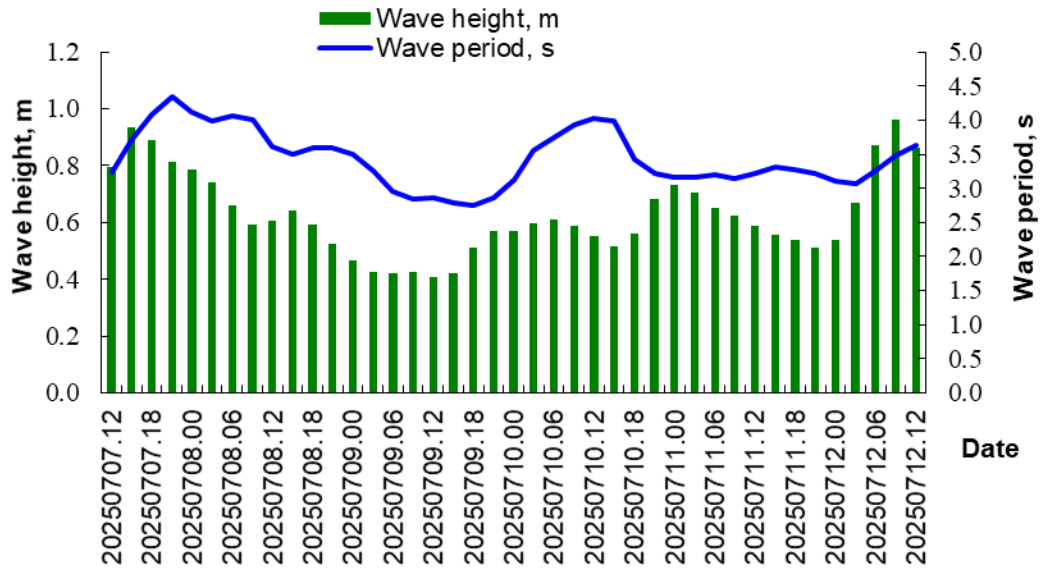


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250707.12	0.67	SW	2.9	6	SW
20250707.15	0.71	SW	3.2	5	W
20250707.18	0.61	SW	3.3	4	N
20250707.21	0.51	S	3.4	3	W
20250708.00	0.54	S	3.5	3	SE
20250708.03	0.58	S	3.7	3	S
20250708.06	0.58	SE	3.9	3	SW
20250708.09	0.58	SE	3.6	5	S
20250708.12	0.66	S	3.2	6	E
20250708.15	0.68	S	3.2	3	E
20250708.18	0.60	S	3.4	2	SE
20250708.21	0.53	S	3.7	2	S
20250709.00	0.49	SW	3.7	3	SW
20250709.03	0.46	SW	3.6	3	S
20250709.06	0.45	SW	3.3	4	E
20250709.09	0.43	SW	3.1	3	SW
20250709.12	0.39	SW	3.2	3	NW
20250709.15	0.37	SW	3.0	5	N
20250709.18	0.44	SW	2.6	6	N
20250709.21	0.59	S	2.7	7	W
20250710.00	0.67	SW	3.1	6	SE
20250710.03	0.69	SW	3.6	4	SE
20250710.06	0.64	SW	3.8	2	N
20250710.09	0.57	SW	3.9	2	W
20250710.12	0.53	SW	3.9	2	W
20250710.15	0.50	SW	3.8	2	SW
20250710.18	0.52	SW	3.3	4	SW
20250710.21	0.55	SW	3.1	5	S
20250711.00	0.60	SW	3.1	6	E
20250711.03	0.66	SW	3.2	7	E
20250711.06	0.69	SW	3.3	7	E
20250711.09	0.68	W	3.4	5	E
20250711.12	0.63	W	3.4	3	NW
20250711.15	0.56	W	3.6	4	W
20250711.18	0.51	W	3.5	5	SW
20250711.21	0.50	W	3.1	6	S
20250712.00	0.61	W	2.9	7	E
20250712.03	0.64	W	3.0	6	SE
20250712.06	0.58	W	3.1	4	SE
20250712.09	0.56	W	3.3	5	SE
20250712.12	0.53	W	3.5	5	NW

Wind condition in the Aktau

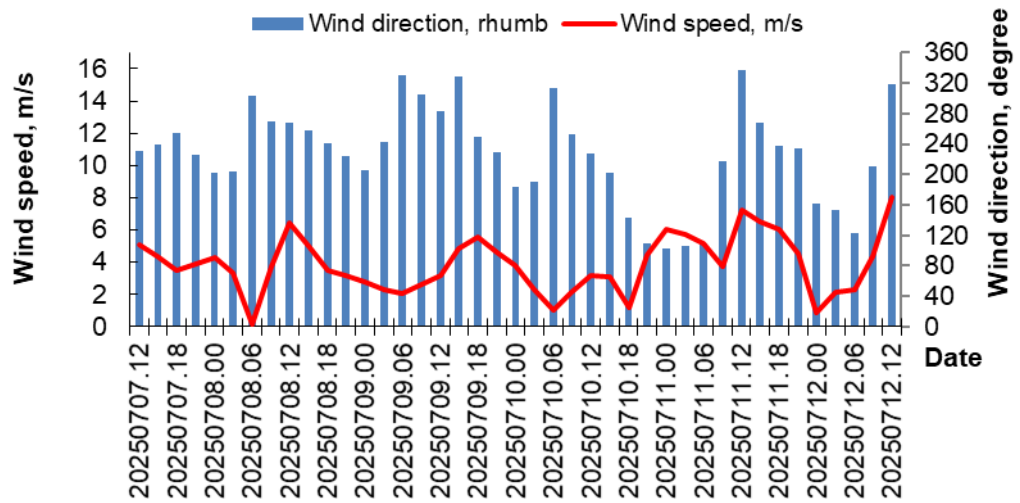


Wave condition in the Aktau

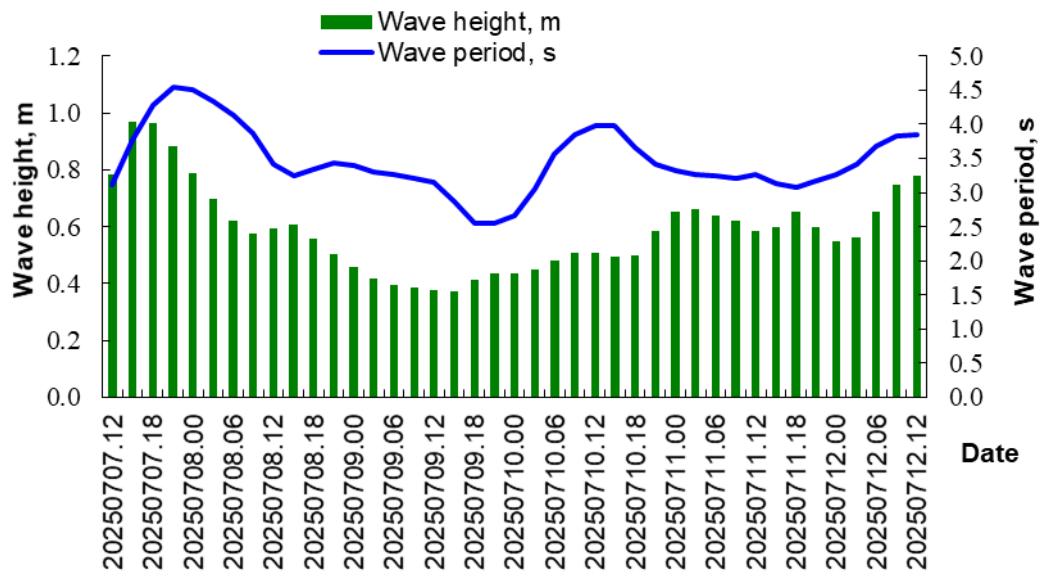


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250707.12	0.80	S	3.2	4	W
20250707.15	0.93	S	3.7	4	SW
20250707.18	0.89	S	4.1	3	W
20250707.21	0.81	SE	4.3	3	SW
20250708.00	0.79	SE	4.1	4	E
20250708.03	0.74	S	4.0	3	SE
20250708.06	0.66	S	4.1	2	SE
20250708.09	0.59	S	4.0	1	SW
20250708.12	0.60	S	3.6	4	W
20250708.15	0.64	S	3.5	3	SW
20250708.18	0.59	SW	3.6	2	S
20250708.21	0.52	SW	3.6	2	S
20250709.00	0.46	SW	3.5	3	E
20250709.03	0.43	SW	3.3	3	S
20250709.06	0.42	SW	3.0	3	S
20250709.09	0.42	SW	2.8	3	SW
20250709.12	0.41	SW	2.9	3	NW
20250709.15	0.42	SW	2.8	6	NW
20250709.18	0.51	S	2.7	7	NW
20250709.21	0.57	S	2.9	4	NW
20250710.00	0.57	S	3.1	2	SE
20250710.03	0.60	S	3.5	3	E
20250710.06	0.61	SW	3.7	2	SW
20250710.09	0.59	SW	3.9	1	SW
20250710.12	0.55	SW	4.0	1	SW
20250710.15	0.51	SW	4.0	4	S
20250710.18	0.56	SW	3.4	6	S
20250710.21	0.68	SW	3.2	7	E
20250711.00	0.73	W	3.2	8	E
20250711.03	0.71	W	3.2	7	SE
20250711.06	0.65	W	3.2	5	SE
20250711.09	0.62	W	3.2	4	SE
20250711.12	0.59	W	3.2	5	N
20250711.15	0.56	W	3.3	5	W
20250711.18	0.54	W	3.3	4	SW
20250711.21	0.51	SW	3.2	4	SW
20250712.00	0.54	W	3.1	5	S
20250712.03	0.67	W	3.1	7	S
20250712.06	0.87	W	3.3	9	E
20250712.09	0.96	W	3.5	6	S
20250712.12	0.86	W	3.6	8	NW

Wind condition in the Peschanyi

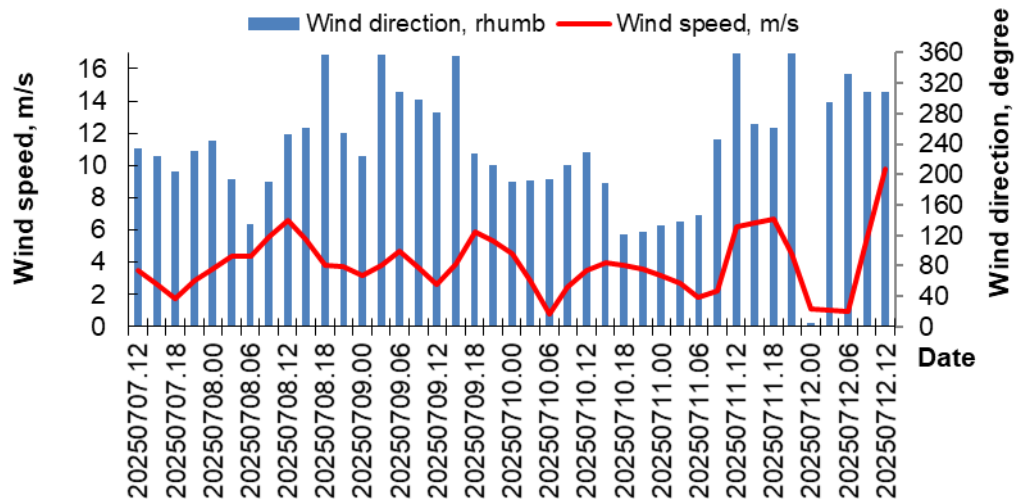


Wave condition in the Peschanyi

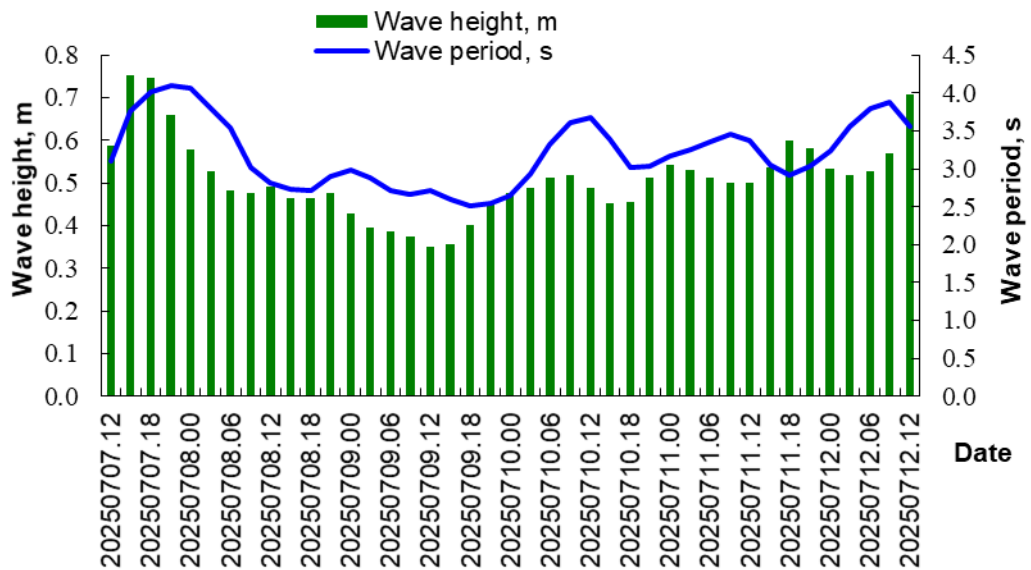


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250707.12	0.78	S	3.1	5	SW
20250707.15	0.97	S	3.8	4	SW
20250707.18	0.96	SE	4.3	3	W
20250707.21	0.88	SE	4.5	4	SW
20250708.00	0.79	SE	4.5	4	S
20250708.03	0.70	SE	4.3	3	SW
20250708.06	0.62	S	4.1	0	NW
20250708.09	0.58	S	3.9	4	W
20250708.12	0.60	S	3.4	6	W
20250708.15	0.61	S	3.2	5	W
20250708.18	0.56	S	3.3	4	SW
20250708.21	0.50	SW	3.4	3	SW
20250709.00	0.46	SW	3.4	3	SW
20250709.03	0.42	SW	3.3	2	SW
20250709.06	0.39	SW	3.3	2	NW
20250709.09	0.39	SW	3.2	3	NW
20250709.12	0.38	SW	3.2	3	W
20250709.15	0.37	SW	2.9	5	NW
20250709.18	0.41	SW	2.5	6	W
20250709.21	0.43	SW	2.5	5	SW
20250710.00	0.44	SW	2.7	4	S
20250710.03	0.45	SW	3.1	2	S
20250710.06	0.48	SW	3.6	1	NW
20250710.09	0.51	SW	3.9	2	W
20250710.12	0.51	SW	4.0	3	SW
20250710.15	0.49	SW	4.0	3	S
20250710.18	0.50	SW	3.7	1	SE
20250710.21	0.58	SW	3.4	4	E
20250711.00	0.65	SW	3.3	6	E
20250711.03	0.66	W	3.3	6	E
20250711.06	0.64	W	3.3	5	E
20250711.09	0.62	W	3.2	4	SW
20250711.12	0.58	W	3.3	7	N
20250711.15	0.60	SW	3.1	7	W
20250711.18	0.65	SW	3.1	6	SW
20250711.21	0.60	SW	3.2	5	SW
20250712.00	0.55	SW	3.3	1	S
20250712.03	0.56	W	3.4	2	SE
20250712.06	0.65	W	3.7	2	SE
20250712.09	0.75	W	3.8	4	SW
20250712.12	0.78	SW	3.8	8	NW

Wind condition in the Fetisovo

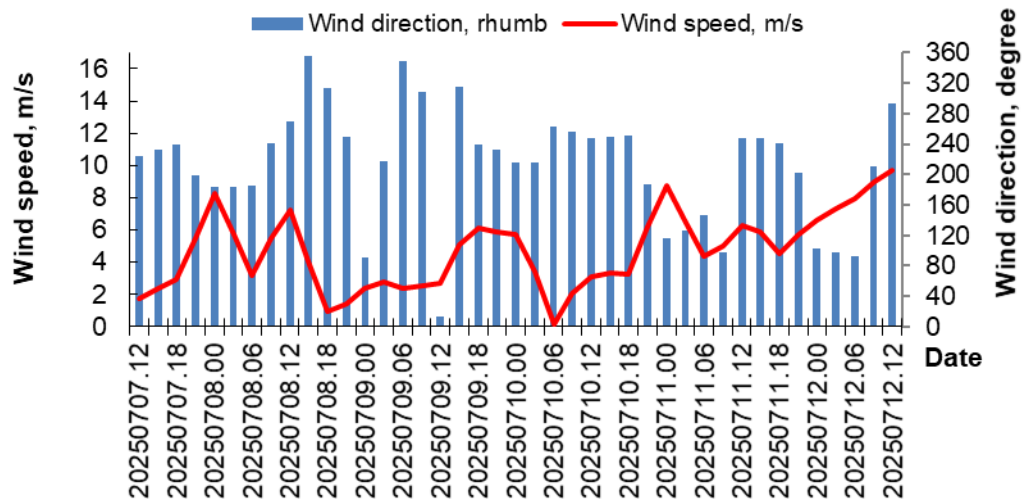


Wave condition in the Fetisovo

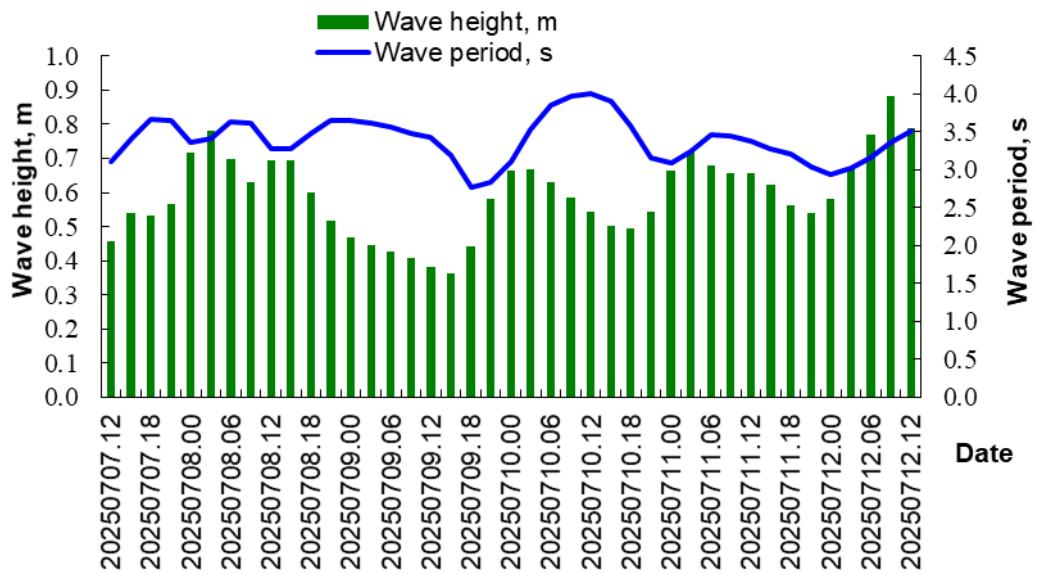


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250707.12	0.59	SE	3.1	3	SW
20250707.15	0.75	SE	3.8	3	SW
20250707.18	0.75	SE	4.0	2	SW
20250707.21	0.66	SE	4.1	3	SW
20250708.00	0.58	S	4.1	4	SW
20250708.03	0.53	S	3.8	4	S
20250708.06	0.48	S	3.5	4	SE
20250708.09	0.48	SW	3.0	6	S
20250708.12	0.49	SW	2.8	7	W
20250708.15	0.46	SW	2.7	5	W
20250708.18	0.46	SW	2.7	4	N
20250708.21	0.48	SW	2.9	4	W
20250709.00	0.43	SW	3.0	3	SW
20250709.03	0.39	SW	2.9	4	N
20250709.06	0.39	SW	2.7	5	NW
20250709.09	0.37	SW	2.7	4	NW
20250709.12	0.35	SW	2.7	3	W
20250709.15	0.36	SW	2.6	4	N
20250709.18	0.40	SW	2.5	6	SW
20250709.21	0.45	SW	2.6	5	SW
20250710.00	0.48	SW	2.6	4	S
20250710.03	0.49	SW	2.9	3	S
20250710.06	0.51	SW	3.3	1	S
20250710.09	0.52	SW	3.6	2	SW
20250710.12	0.49	SW	3.7	3	SW
20250710.15	0.45	SW	3.4	4	S
20250710.18	0.45	SW	3.0	4	SE
20250710.21	0.51	SW	3.0	4	SE
20250711.00	0.54	W	3.2	3	SE
20250711.03	0.53	W	3.3	3	SE
20250711.06	0.51	W	3.4	2	SE
20250711.09	0.50	W	3.5	2	SW
20250711.12	0.50	W	3.4	6	N
20250711.15	0.54	SW	3.1	6	W
20250711.18	0.60	SW	2.9	7	W
20250711.21	0.58	SW	3.0	5	N
20250712.00	0.53	SW	3.2	1	N
20250712.03	0.52	SW	3.6	1	NW
20250712.06	0.53	SW	3.8	1	NW
20250712.09	0.57	W	3.9	6	NW
20250712.12	0.71	SW	3.6	10	NW

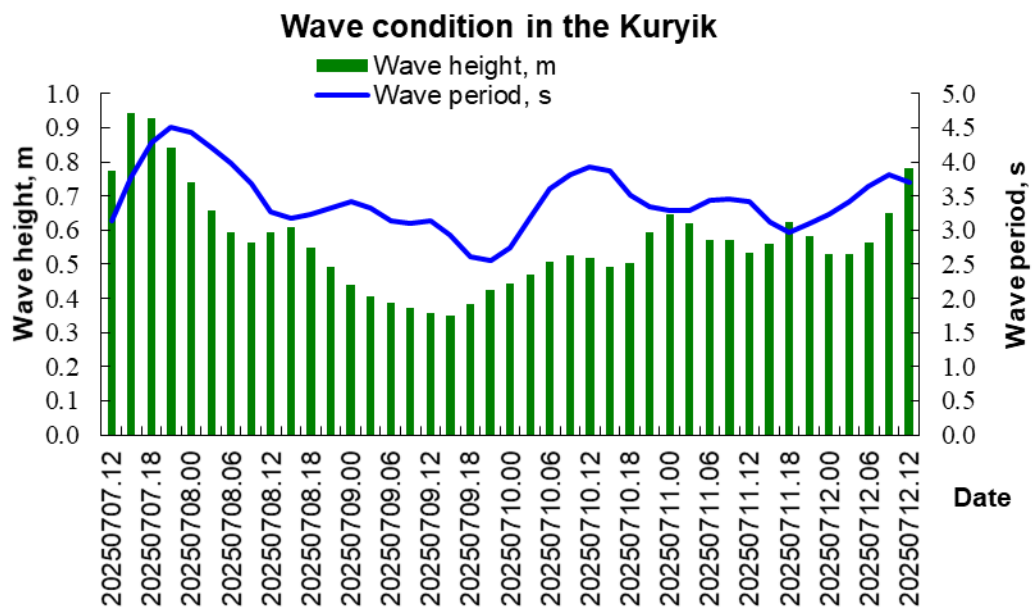
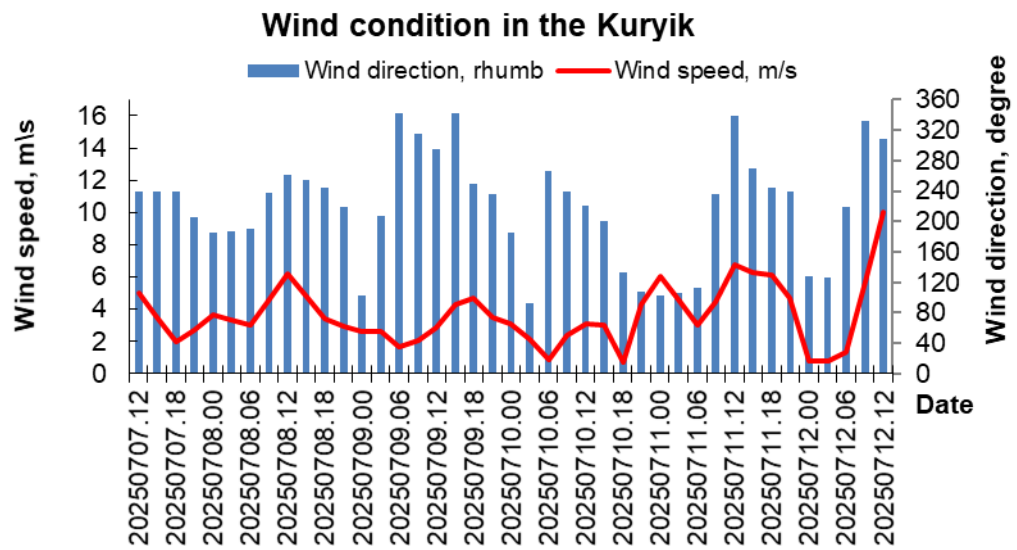
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250707.12	0.46	SW	3.1	2	SW
20250707.15	0.54	SW	3.4	2	SW
20250707.18	0.53	S	3.7	3	SW
20250707.21	0.57	S	3.6	6	S
20250708.00	0.72	S	3.4	8	S
20250708.03	0.78	S	3.4	6	S
20250708.06	0.70	S	3.6	3	S
20250708.09	0.63	S	3.6	5	SW
20250708.12	0.69	S	3.3	7	W
20250708.15	0.70	S	3.3	4	N
20250708.18	0.60	S	3.5	1	NW
20250708.21	0.52	SW	3.7	1	W
20250709.00	0.47	SW	3.7	2	E
20250709.03	0.44	SW	3.6	3	SW
20250709.06	0.43	SW	3.6	2	N
20250709.09	0.41	SW	3.5	3	NW
20250709.12	0.38	SW	3.4	3	N
20250709.15	0.36	SW	3.2	5	NW
20250709.18	0.44	SW	2.8	6	SW
20250709.21	0.58	SW	2.8	6	SW
20250710.00	0.66	SW	3.1	6	SW
20250710.03	0.67	SW	3.5	3	SW
20250710.06	0.63	SW	3.9	0	W
20250710.09	0.58	SW	4.0	2	W
20250710.12	0.54	SW	4.0	3	SW
20250710.15	0.50	SW	3.9	3	W
20250710.18	0.49	SW	3.6	3	W
20250710.21	0.54	SW	3.2	6	S
20250711.00	0.67	SW	3.1	9	SE
20250711.03	0.72	W	3.3	7	SE
20250711.06	0.68	W	3.5	4	SE
20250711.09	0.66	W	3.5	5	E
20250711.12	0.66	W	3.4	6	W
20250711.15	0.62	SW	3.3	6	SW
20250711.18	0.56	SW	3.2	5	SW
20250711.21	0.54	SW	3.0	6	S
20250712.00	0.58	W	2.9	7	E
20250712.03	0.68	W	3.0	7	E
20250712.06	0.77	W	3.2	8	E
20250712.09	0.88	W	3.4	9	SW
20250712.12	0.79	W	3.5	10	NW



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250707.12	0.77	S	3.1	5	SW
20250707.15	0.94	S	3.8	3	SW
20250707.18	0.93	SE	4.3	2	SW
20250707.21	0.84	SE	4.5	3	SW
20250708.00	0.74	SE	4.4	4	S
20250708.03	0.66	SE	4.2	3	S
20250708.06	0.59	S	4.0	3	S
20250708.09	0.56	S	3.7	4	SW
20250708.12	0.59	S	3.3	6	W
20250708.15	0.61	S	3.2	5	W
20250708.18	0.55	SW	3.2	3	SW
20250708.21	0.49	SW	3.3	3	SW
20250709.00	0.44	SW	3.4	3	E
20250709.03	0.40	SW	3.3	3	SW
20250709.06	0.39	SW	3.1	2	N
20250709.09	0.37	W	3.1	2	NW
20250709.12	0.36	W	3.1	3	NW
20250709.15	0.35	SW	2.9	4	N
20250709.18	0.38	SW	2.6	5	W
20250709.21	0.42	SW	2.6	4	SW
20250710.00	0.45	SW	2.7	3	S
20250710.03	0.47	SW	3.2	2	E
20250710.06	0.51	SW	3.6	1	W
20250710.09	0.53	SW	3.8	2	SW
20250710.12	0.52	SW	3.9	3	SW
20250710.15	0.49	SW	3.9	3	S
20250710.18	0.50	SW	3.5	1	SE
20250710.21	0.59	SW	3.3	4	E
20250711.00	0.64	SW	3.3	6	E
20250711.03	0.62	W	3.3	5	E
20250711.06	0.57	W	3.4	3	SE
20250711.09	0.57	W	3.5	4	SW
20250711.12	0.53	W	3.4	7	N
20250711.15	0.56	SW	3.1	6	W
20250711.18	0.62	SW	3.0	6	SW
20250711.21	0.58	SW	3.1	5	SW
20250712.00	0.53	SW	3.2	1	SE
20250712.03	0.53	SW	3.4	1	SE
20250712.06	0.56	W	3.6	1	SW
20250712.09	0.65	W	3.8	6	NW
20250712.12	0.78	SW	3.7	10	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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