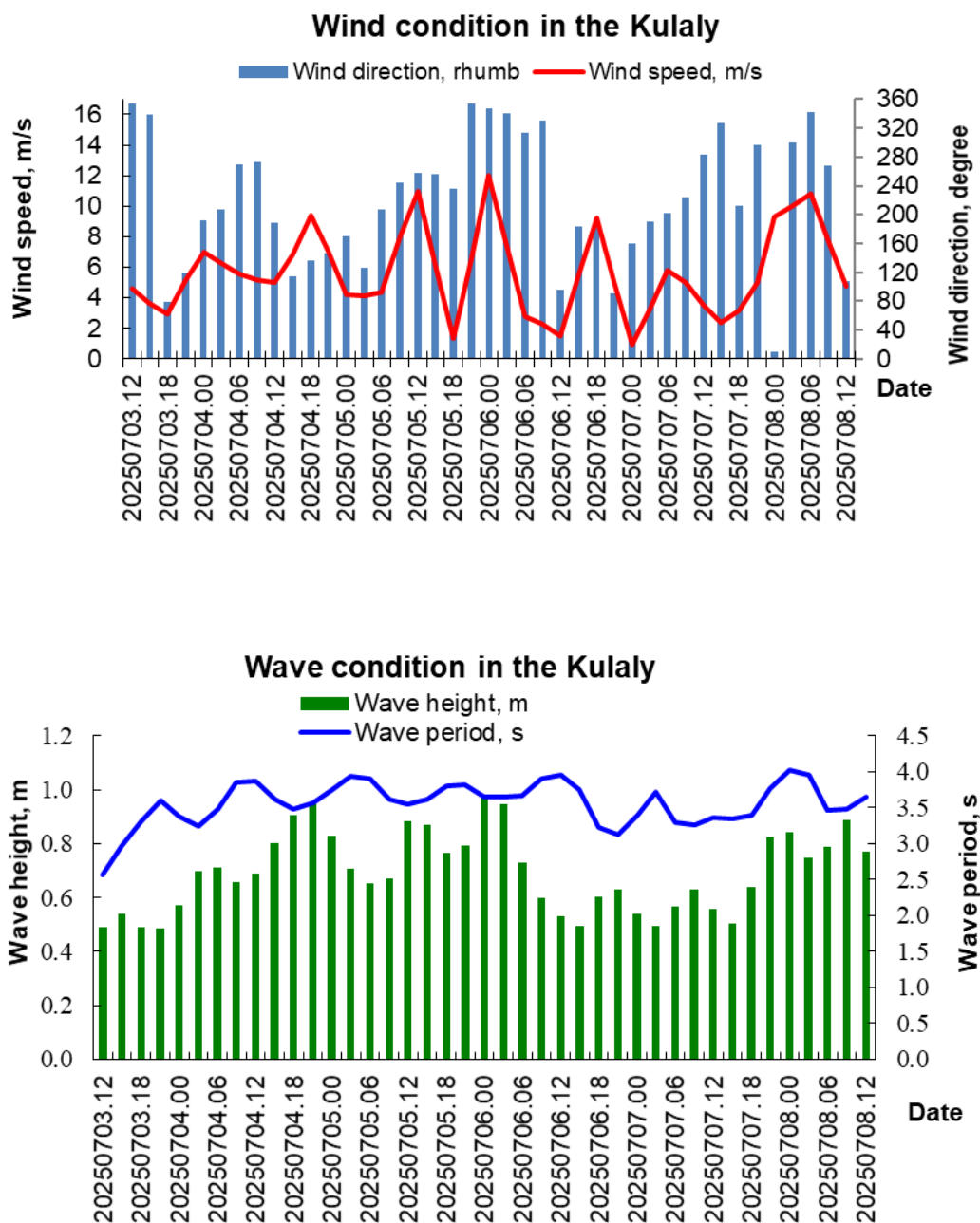




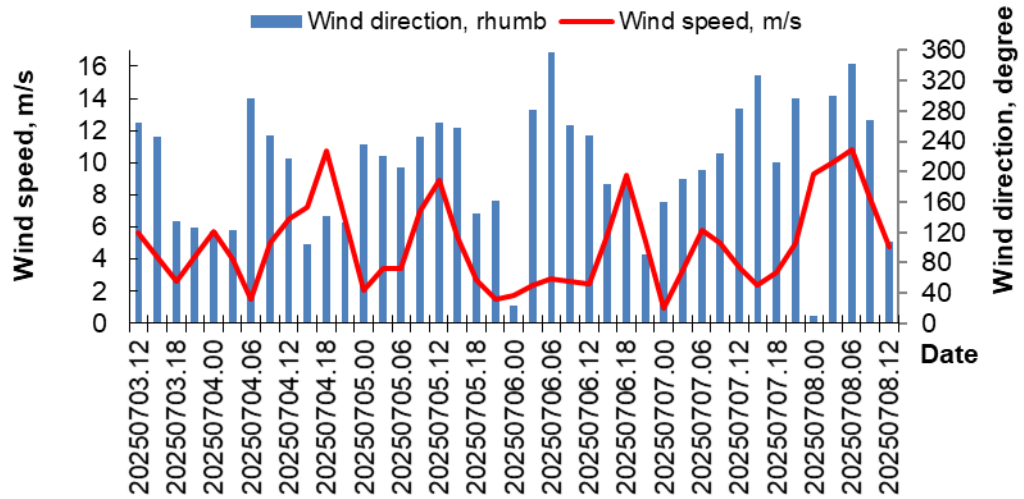
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 03 – 08, 2025.**

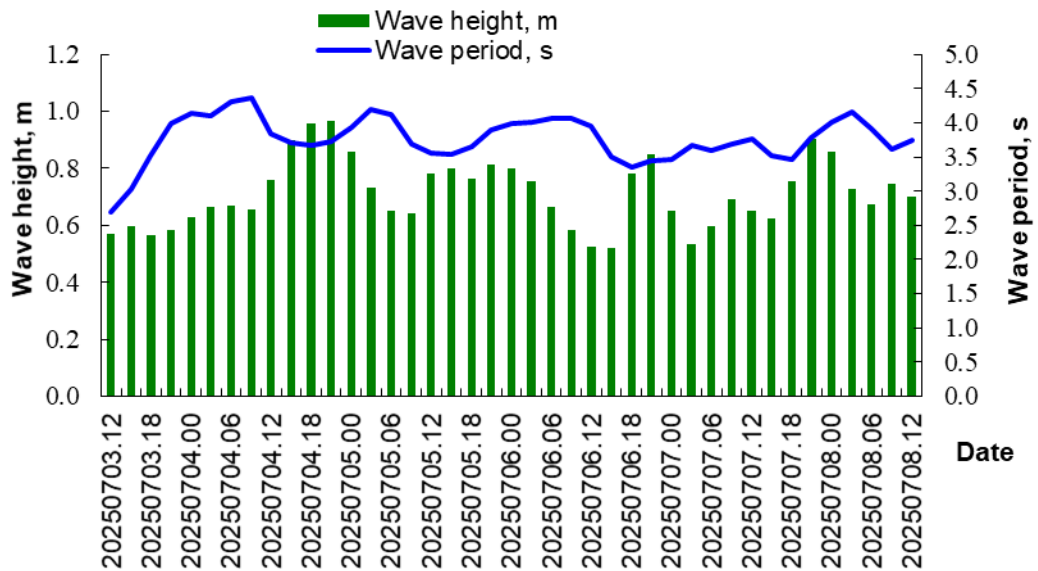


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250703.12	0.49	S	2.6	5	N
20250703.15	0.54	S	3.0	4	N
20250703.18	0.49	S	3.3	3	E
20250703.21	0.48	SE	3.6	5	SE
20250704.00	0.57	S	3.4	7	S
20250704.03	0.70	S	3.2	6	SW
20250704.06	0.71	S	3.5	6	W
20250704.09	0.66	S	3.9	5	W
20250704.12	0.69	S	3.9	5	S
20250704.15	0.80	S	3.6	7	SE
20250704.18	0.91	SW	3.5	9	SE
20250704.21	0.95	W	3.6	7	SE
20250705.00	0.83	SW	3.8	4	S
20250705.03	0.71	SW	3.9	4	SE
20250705.06	0.65	SW	3.9	4	SW
20250705.09	0.67	SW	3.6	8	SW
20250705.12	0.88	SW	3.5	11	W
20250705.15	0.87	S	3.6	6	W
20250705.18	0.77	SW	3.8	1	SW
20250705.21	0.79	SW	3.8	7	N
20250706.00	0.97	S	3.7	12	N
20250706.03	0.95	S	3.6	7	N
20250706.06	0.73	S	3.7	3	NW
20250706.09	0.60	S	3.9	2	NW
20250706.12	0.53	S	4.0	2	E
20250706.15	0.49	S	3.7	5	S
20250706.18	0.60	SW	3.2	9	S
20250706.21	0.63	SW	3.1	5	E
20250707.00	0.54	SW	3.4	1	S
20250707.03	0.49	SW	3.7	3	S
20250707.06	0.57	SW	3.3	6	SW
20250707.09	0.63	SW	3.3	5	SW
20250707.12	0.56	SW	3.4	3	W
20250707.15	0.50	SW	3.3	2	NW
20250707.18	0.64	W	3.4	3	SW
20250707.21	0.82	W	3.8	5	NW
20250708.00	0.84	W	4.0	9	N
20250708.03	0.75	SW	4.0	10	NW
20250708.06	0.79	SW	3.5	11	N
20250708.09	0.89	S	3.5	8	W
20250708.12	0.77	S	3.7	5	E

Wind condition in the Fort-Shevchenko

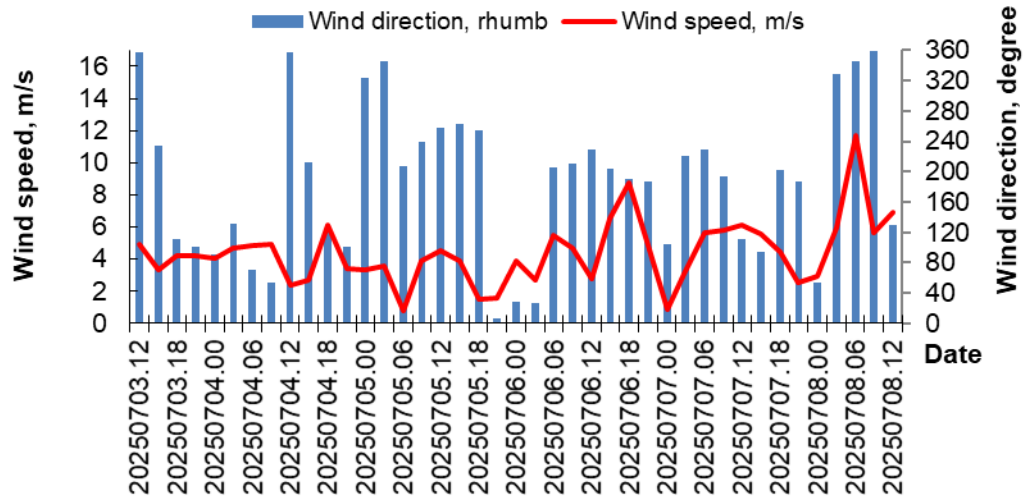


Wave condition in the Fort-Shevchenko

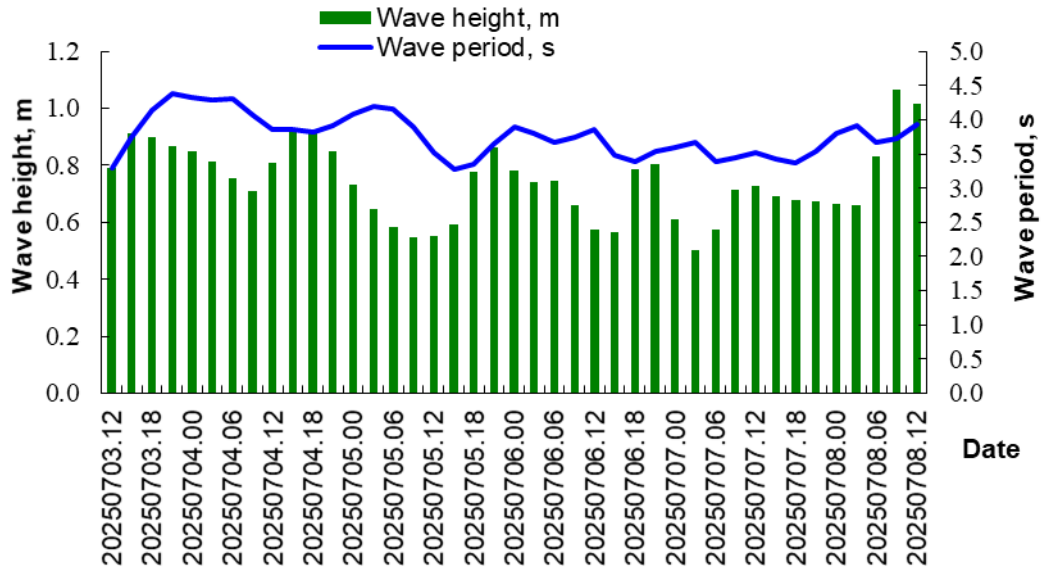


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250703.12	0.57	S	2.7	6	W
20250703.15	0.60	S	3.0	4	SW
20250703.18	0.57	S	3.5	3	SE
20250703.21	0.58	SE	4.0	4	SE
20250704.00	0.63	SE	4.1	6	SE
20250704.03	0.67	SE	4.1	4	SE
20250704.06	0.67	SE	4.3	2	NW
20250704.09	0.66	SE	4.4	5	W
20250704.12	0.76	S	3.8	7	SW
20250704.15	0.90	S	3.7	7	E
20250704.18	0.96	SW	3.7	11	SE
20250704.21	0.97	SW	3.7	7	SE
20250705.00	0.86	SW	3.9	2	SW
20250705.03	0.73	SW	4.2	3	SW
20250705.06	0.65	SW	4.1	3	SW
20250705.09	0.64	SW	3.7	7	SW
20250705.12	0.78	SW	3.6	9	W
20250705.15	0.80	S	3.5	5	W
20250705.18	0.76	SW	3.7	3	SE
20250705.21	0.82	SW	3.9	2	S
20250706.00	0.80	SW	4.0	2	NE
20250706.03	0.76	SW	4.0	2	W
20250706.06	0.66	SW	4.1	3	N
20250706.09	0.58	SW	4.1	3	W
20250706.12	0.52	SW	3.9	2	SW
20250706.15	0.52	SW	3.5	5	S
20250706.18	0.78	SW	3.4	9	S
20250706.21	0.85	SW	3.4	5	E
20250707.00	0.65	SW	3.5	1	S
20250707.03	0.53	SW	3.7	3	S
20250707.06	0.60	SW	3.6	6	SW
20250707.09	0.69	SW	3.7	5	SW
20250707.12	0.65	SW	3.8	3	W
20250707.15	0.62	SW	3.5	2	NW
20250707.18	0.75	W	3.5	3	SW
20250707.21	0.90	W	3.8	5	NW
20250708.00	0.86	W	4.0	9	N
20250708.03	0.73	W	4.2	10	NW
20250708.06	0.67	SW	3.9	11	N
20250708.09	0.75	SW	3.6	8	W
20250708.12	0.70	SW	3.7	5	E

Wind condition in the Aktau

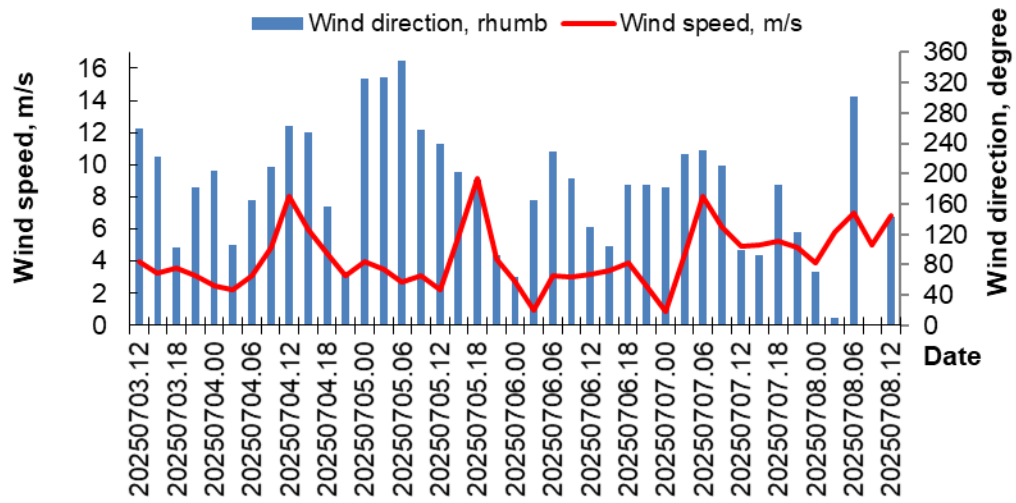


Wave condition in the Aktau

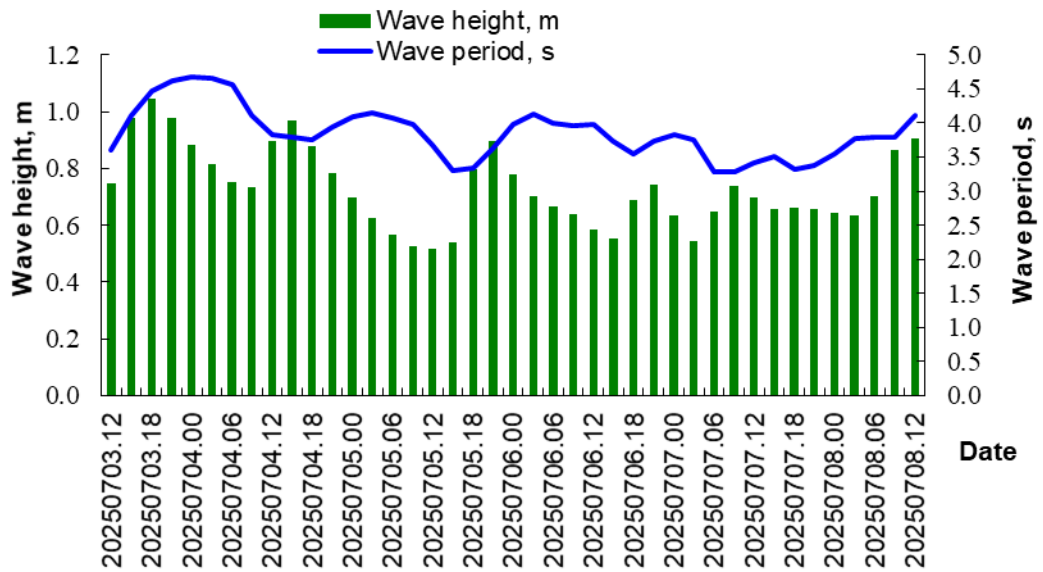


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250703.12	0.79	S	3.3	5	N
20250703.15	0.91	S	3.7	3	SW
20250703.18	0.90	SE	4.1	4	E
20250703.21	0.87	SE	4.4	4	E
20250704.00	0.85	SE	4.3	4	E
20250704.03	0.81	S	4.3	5	SE
20250704.06	0.75	S	4.3	5	E
20250704.09	0.71	S	4.1	5	NE
20250704.12	0.81	S	3.9	2	N
20250704.15	0.93	S	3.9	3	SW
20250704.18	0.93	S	3.8	6	SE
20250704.21	0.85	SW	3.9	3	E
20250705.00	0.73	SW	4.1	3	NW
20250705.03	0.65	SW	4.2	4	N
20250705.06	0.59	SW	4.2	1	SW
20250705.09	0.55	SW	3.9	4	SW
20250705.12	0.55	SW	3.5	5	W
20250705.15	0.59	SW	3.3	4	W
20250705.18	0.78	SW	3.4	1	W
20250705.21	0.86	W	3.6	2	N
20250706.00	0.78	SW	3.9	4	NE
20250706.03	0.74	SW	3.8	3	NE
20250706.06	0.74	SW	3.7	6	SW
20250706.09	0.66	SW	3.7	5	SW
20250706.12	0.57	SW	3.8	3	SW
20250706.15	0.56	SW	3.5	7	SW
20250706.18	0.79	SW	3.4	9	S
20250706.21	0.80	SW	3.5	5	S
20250707.00	0.61	SW	3.6	1	E
20250707.03	0.50	SW	3.7	3	SW
20250707.06	0.57	SW	3.4	6	SW
20250707.09	0.71	SW	3.4	6	S
20250707.12	0.73	SW	3.5	6	E
20250707.15	0.69	W	3.4	6	E
20250707.18	0.68	W	3.4	4	SW
20250707.21	0.67	W	3.5	3	S
20250708.00	0.66	W	3.8	3	NE
20250708.03	0.66	W	3.9	6	NW
20250708.06	0.83	SW	3.7	12	N
20250708.09	1.06	SW	3.7	6	N
20250708.12	1.02	SW	3.9	7	SE

Wind condition in the Peschanyi

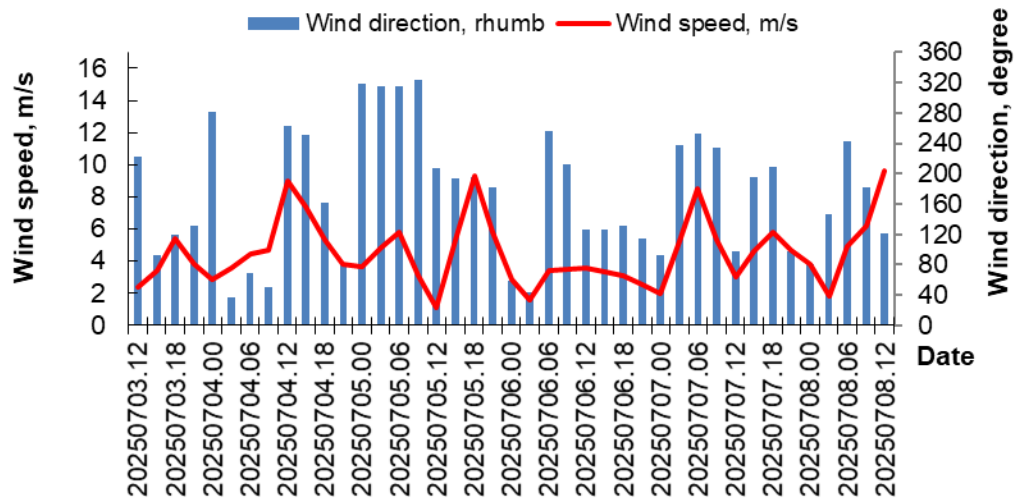


Wave condition in the Peschanyi

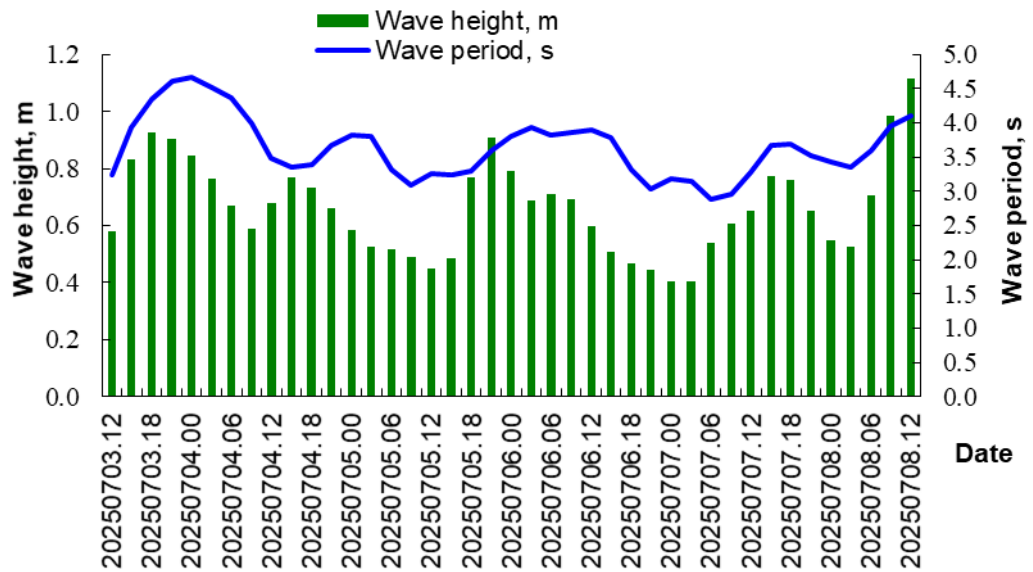


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250703.12	0.75	S	3.6	4	W
20250703.15	0.98	S	4.1	3	SW
20250703.18	1.05	SE	4.5	4	E
20250703.21	0.98	SE	4.6	3	S
20250704.00	0.88	SE	4.7	2	SW
20250704.03	0.81	S	4.6	2	E
20250704.06	0.75	S	4.6	3	S
20250704.09	0.73	S	4.1	5	SW
20250704.12	0.90	S	3.8	8	W
20250704.15	0.97	S	3.8	6	W
20250704.18	0.88	S	3.8	4	SE
20250704.21	0.78	SW	3.9	3	E
20250705.00	0.70	SW	4.1	4	NW
20250705.03	0.62	SW	4.2	3	NW
20250705.06	0.57	SW	4.1	3	N
20250705.09	0.53	SW	4.0	3	W
20250705.12	0.52	SW	3.7	2	SW
20250705.15	0.54	SW	3.3	5	SW
20250705.18	0.80	W	3.3	9	S
20250705.21	0.90	W	3.6	4	E
20250706.00	0.78	W	4.0	3	NE
20250706.03	0.70	W	4.1	1	S
20250706.06	0.67	SW	4.0	3	SW
20250706.09	0.64	SW	4.0	3	S
20250706.12	0.58	SW	4.0	3	SE
20250706.15	0.55	SW	3.7	3	E
20250706.18	0.69	SW	3.6	4	S
20250706.21	0.74	SW	3.7	2	S
20250707.00	0.63	W	3.8	1	S
20250707.03	0.54	SW	3.7	4	SW
20250707.06	0.65	SW	3.3	8	SW
20250707.09	0.74	SW	3.3	6	SW
20250707.12	0.70	SW	3.4	5	E
20250707.15	0.66	SW	3.5	5	E
20250707.18	0.66	W	3.3	5	S
20250707.21	0.66	W	3.4	5	SE
20250708.00	0.64	W	3.5	4	E
20250708.03	0.63	W	3.8	6	N
20250708.06	0.70	W	3.8	7	NW
20250708.09	0.86	SW	3.8	5	N
20250708.12	0.91	SW	4.1	7	SE

Wind condition in the Fetisovo

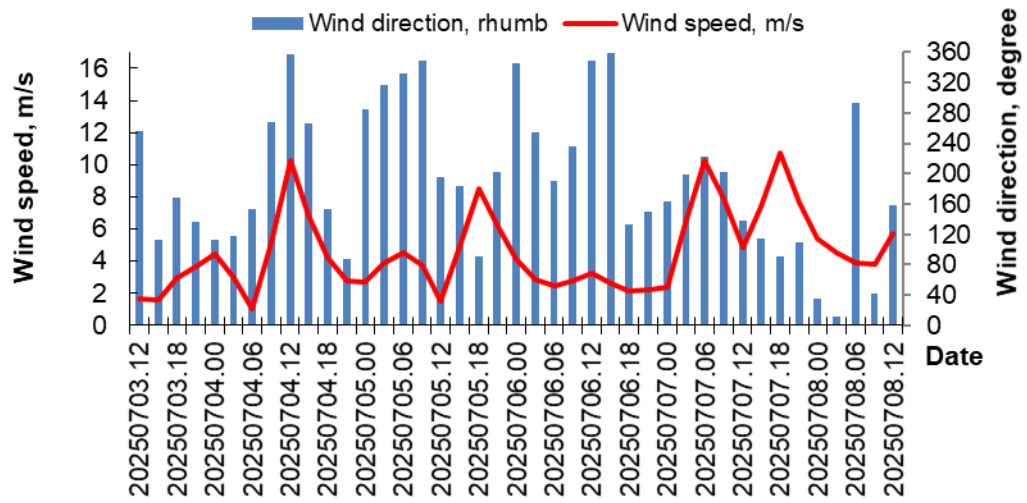


Wave condition in the Fetisovo

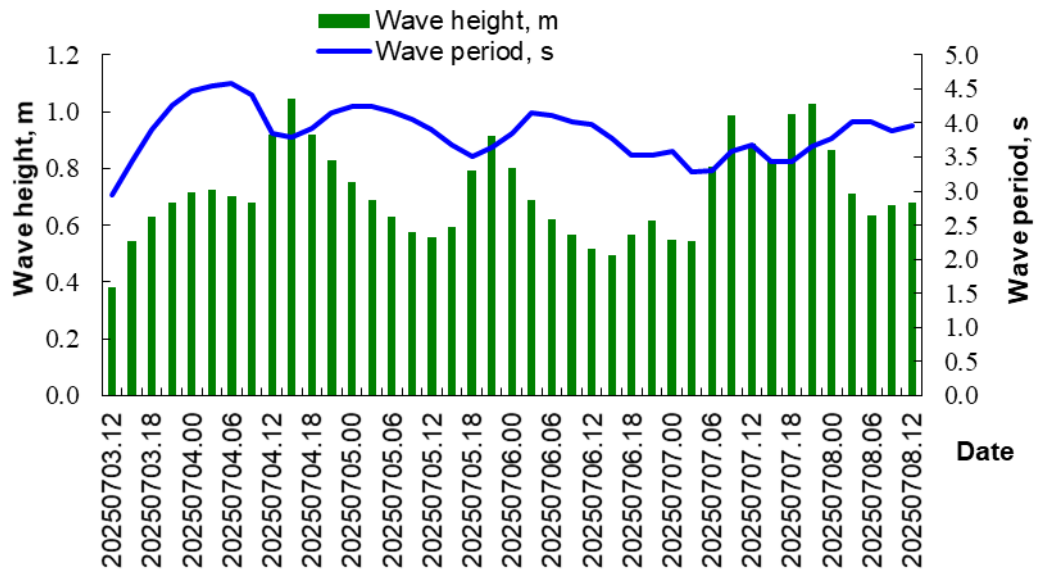


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250703.12	0.58	SE	3.2	2	SW
20250703.15	0.83	SE	3.9	3	E
20250703.18	0.93	S	4.3	5	SE
20250703.21	0.91	S	4.6	4	SE
20250704.00	0.84	S	4.7	3	W
20250704.03	0.76	S	4.5	4	NE
20250704.06	0.67	S	4.4	4	E
20250704.09	0.59	S	4.0	5	NE
20250704.12	0.68	S	3.5	9	W
20250704.15	0.77	S	3.4	7	W
20250704.18	0.73	SW	3.4	5	S
20250704.21	0.66	SW	3.7	4	E
20250705.00	0.59	SW	3.8	4	NW
20250705.03	0.52	SW	3.8	5	NW
20250705.06	0.51	SW	3.3	6	NW
20250705.09	0.49	SW	3.1	3	NW
20250705.12	0.45	SW	3.3	1	SW
20250705.15	0.49	SW	3.2	5	S
20250705.18	0.77	SW	3.3	9	S
20250705.21	0.91	W	3.6	6	S
20250706.00	0.79	W	3.8	3	NE
20250706.03	0.69	W	3.9	2	NE
20250706.06	0.71	SW	3.8	3	W
20250706.09	0.69	SW	3.9	4	SW
20250706.12	0.60	SW	3.9	4	SE
20250706.15	0.51	SW	3.8	3	SE
20250706.18	0.47	SW	3.3	3	SE
20250706.21	0.44	SW	3.0	3	SE
20250707.00	0.40	SW	3.2	2	E
20250707.03	0.40	SW	3.1	5	SW
20250707.06	0.54	SW	2.9	9	W
20250707.09	0.61	SW	3.0	5	SW
20250707.12	0.65	SW	3.3	3	E
20250707.15	0.77	W	3.7	5	S
20250707.18	0.76	W	3.7	6	SW
20250707.21	0.65	W	3.5	5	E
20250708.00	0.55	W	3.4	4	E
20250708.03	0.52	W	3.4	2	SE
20250708.06	0.71	SW	3.6	5	SW
20250708.09	0.98	SW	4.0	6	S
20250708.12	1.12	SW	4.1	10	SE

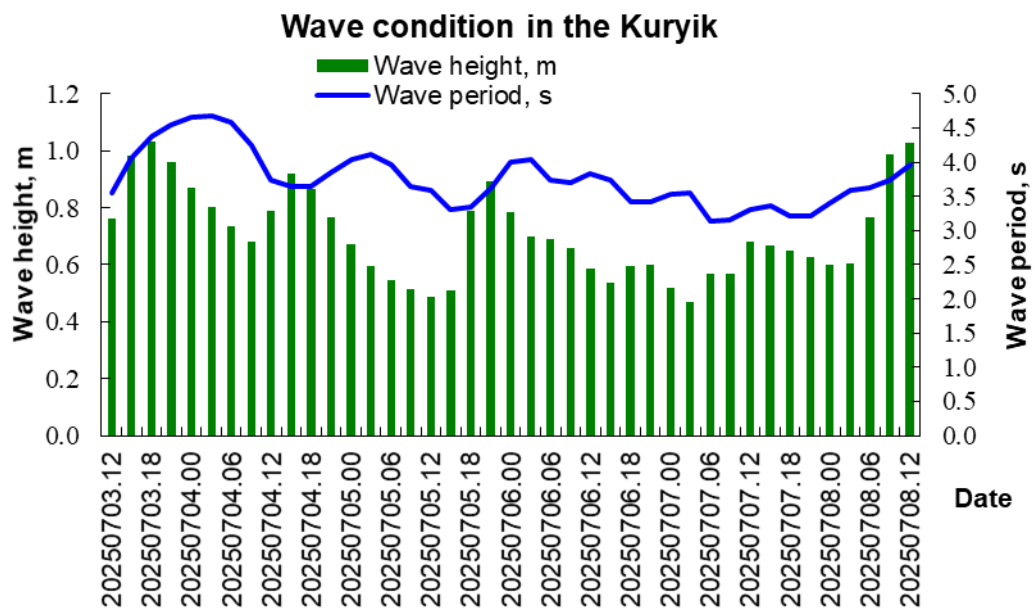
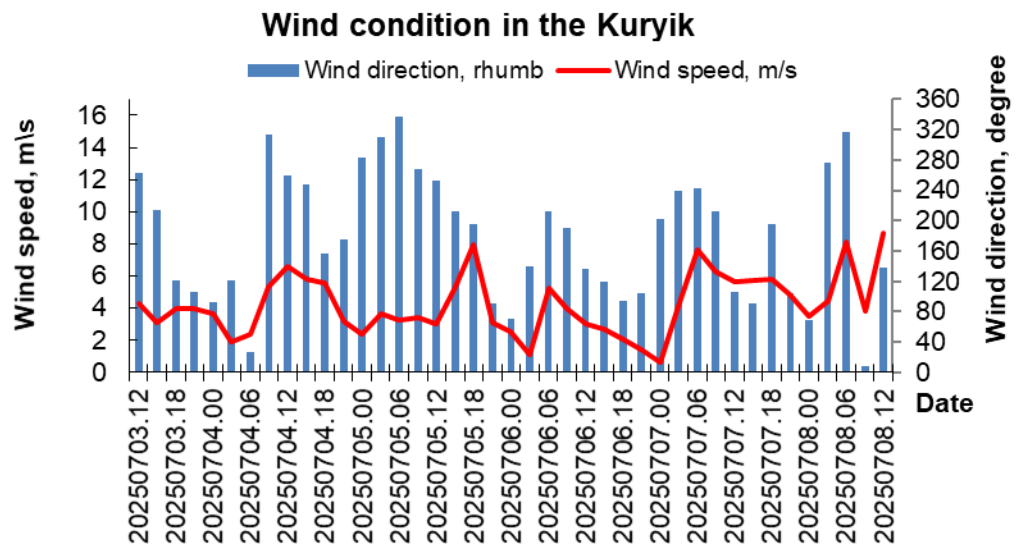
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250703.12	0.38	S	3.0	2	W
20250703.15	0.54	S	3.5	2	SE
20250703.18	0.63	SE	3.9	3	S
20250703.21	0.68	SE	4.3	4	SE
20250704.00	0.72	SE	4.5	4	SE
20250704.03	0.72	SE	4.6	3	SE
20250704.06	0.70	SE	4.6	1	SE
20250704.09	0.68	SE	4.4	5	W
20250704.12	0.92	S	3.8	10	N
20250704.15	1.04	S	3.8	7	W
20250704.18	0.92	S	3.9	4	SE
20250704.21	0.83	S	4.2	3	E
20250705.00	0.75	SW	4.3	3	W
20250705.03	0.69	SW	4.3	4	NW
20250705.06	0.63	SW	4.2	5	NW
20250705.09	0.58	SW	4.1	4	N
20250705.12	0.56	SW	3.9	1	S
20250705.15	0.59	SW	3.7	5	S
20250705.18	0.79	SW	3.5	9	E
20250705.21	0.92	SW	3.6	6	SW
20250706.00	0.80	SW	3.9	4	N
20250706.03	0.69	SW	4.2	3	W
20250706.06	0.62	SW	4.1	2	S
20250706.09	0.57	SW	4.0	3	SW
20250706.12	0.52	SW	4.0	3	N
20250706.15	0.49	SW	3.8	3	N
20250706.18	0.57	SW	3.5	2	SE
20250706.21	0.62	SW	3.5	2	SE
20250707.00	0.55	SW	3.6	2	S
20250707.03	0.54	SW	3.3	6	S
20250707.06	0.81	SW	3.3	10	SW
20250707.09	0.99	SW	3.6	8	SW
20250707.12	0.89	SW	3.7	5	SE
20250707.15	0.82	W	3.4	7	SE
20250707.18	0.99	W	3.4	11	E
20250707.21	1.03	W	3.7	8	E
20250708.00	0.86	W	3.8	5	NE
20250708.03	0.71	W	4.0	5	N
20250708.06	0.64	W	4.0	4	NW
20250708.09	0.67	SW	3.9	4	NE
20250708.12	0.68	SW	4.0	6	S



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250703.12	0.76	S	3.6	4	W
20250703.15	0.98	S	4.1	3	SW
20250703.18	1.03	SE	4.4	4	SE
20250703.21	0.96	SE	4.5	4	E
20250704.00	0.87	SE	4.7	4	E
20250704.03	0.80	S	4.7	2	SE
20250704.06	0.73	S	4.6	2	NE
20250704.09	0.68	S	4.2	5	NW
20250704.12	0.79	S	3.7	7	W
20250704.15	0.92	S	3.6	6	W
20250704.18	0.87	S	3.6	6	SE
20250704.21	0.77	SW	3.8	3	S
20250705.00	0.67	SW	4.0	2	W
20250705.03	0.60	SW	4.1	4	NW
20250705.06	0.55	SW	4.0	3	N
20250705.09	0.51	SW	3.7	3	W
20250705.12	0.49	SW	3.6	3	W
20250705.15	0.51	SW	3.3	5	SW
20250705.18	0.79	SW	3.3	8	S
20250705.21	0.89	W	3.6	3	E
20250706.00	0.78	W	4.0	3	E
20250706.03	0.70	W	4.0	1	SE
20250706.06	0.69	SW	3.7	5	SW
20250706.09	0.66	SW	3.7	4	S
20250706.12	0.59	SW	3.8	3	SE
20250706.15	0.54	SW	3.7	3	SE
20250706.18	0.60	SW	3.4	2	E
20250706.21	0.60	SW	3.4	1	E
20250707.00	0.52	SW	3.5	1	S
20250707.03	0.47	SW	3.5	4	SW
20250707.06	0.57	SW	3.1	8	SW
20250707.09	0.57	SW	3.2	6	SW
20250707.12	0.68	SW	3.3	6	E
20250707.15	0.67	W	3.4	6	E
20250707.18	0.65	W	3.2	6	S
20250707.21	0.63	W	3.2	5	E
20250708.00	0.60	W	3.4	4	E
20250708.03	0.60	W	3.6	4	W
20250708.06	0.77	SW	3.6	8	NW
20250708.09	0.99	SW	3.7	4	N
20250708.12	1.03	SW	4.0	9	SE

**Calculation characteristics were obtained using the SWAN wave model, adapted in RSE «Kazhydromet» to the conditions of the Caspian Sea.*

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Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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