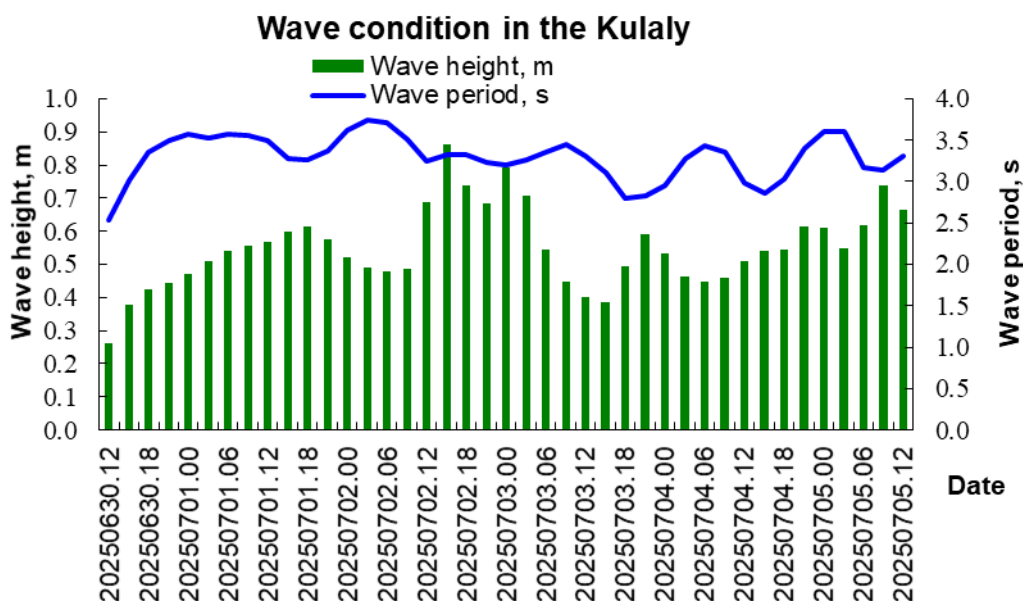
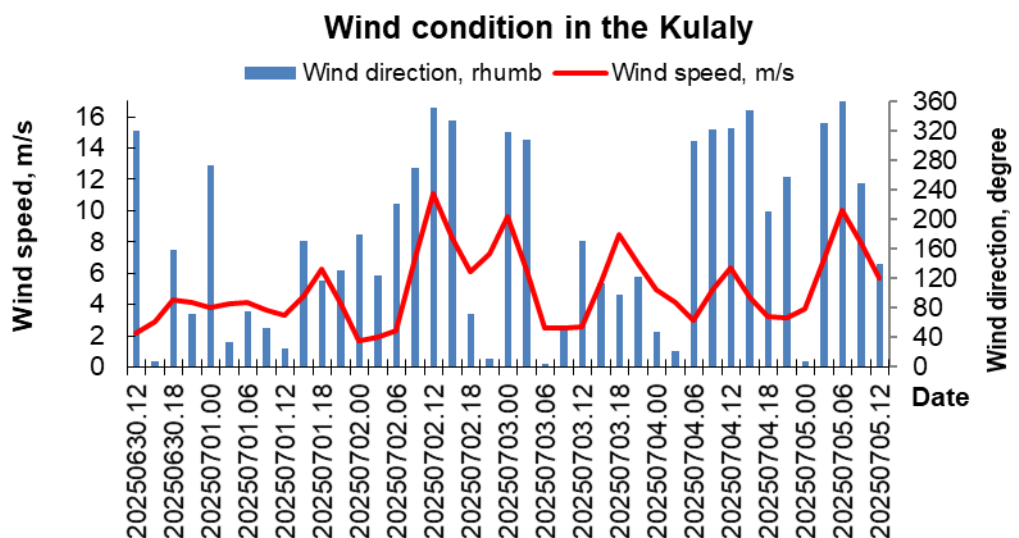




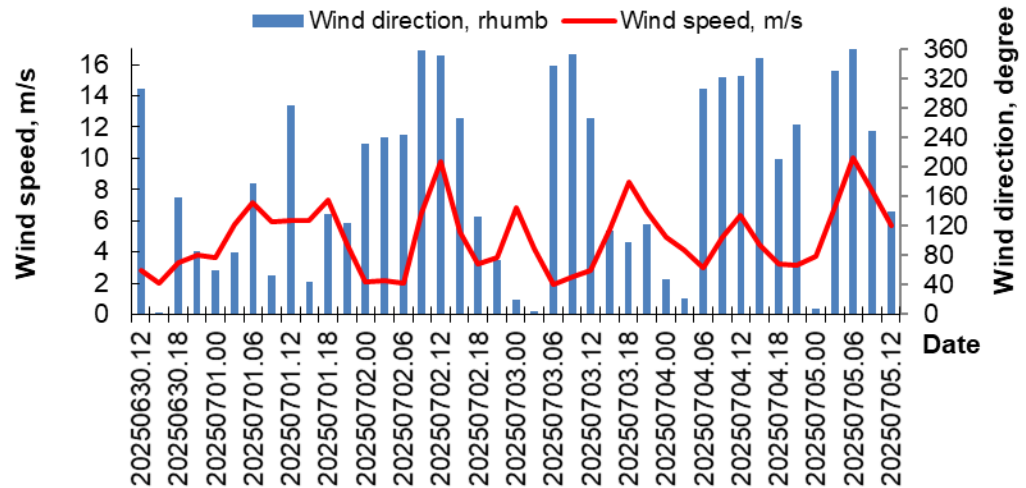
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period June 30 – July 05, 2025.**

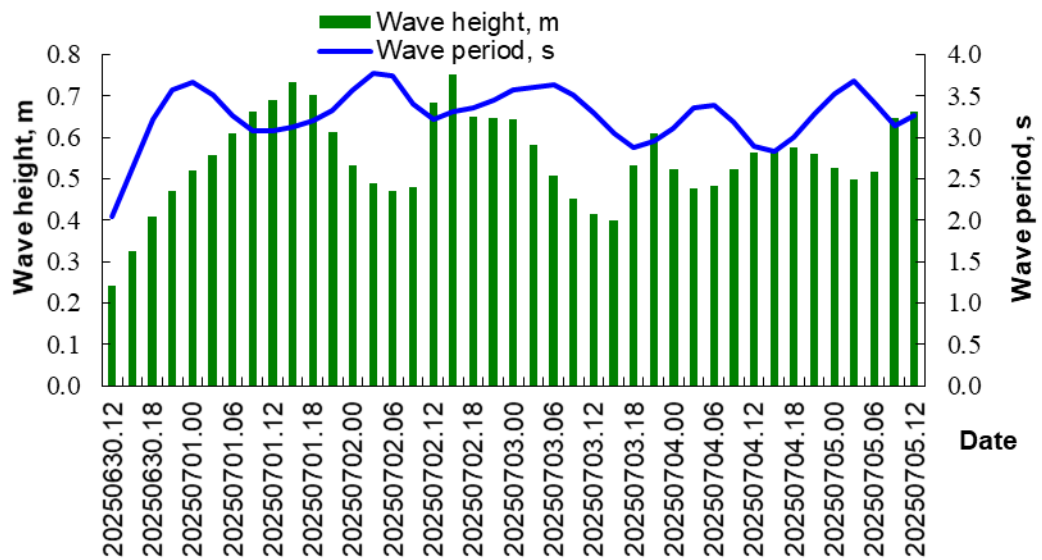


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250630.12	0.26	S	2.5	2	NW
20250630.15	0.38	SW	3.0	3	N
20250630.18	0.42	SW	3.4	4	S
20250630.21	0.44	SW	3.5	4	E
20250701.00	0.47	S	3.6	4	W
20250701.03	0.51	S	3.5	4	NE
20250701.06	0.54	S	3.6	4	E
20250701.09	0.56	S	3.6	4	NE
20250701.12	0.57	S	3.5	3	NE
20250701.15	0.60	SE	3.3	5	S
20250701.18	0.62	SE	3.3	6	SE
20250701.21	0.58	S	3.4	4	SE
20250702.00	0.52	S	3.6	2	S
20250702.03	0.49	S	3.7	2	SE
20250702.06	0.48	S	3.7	2	SW
20250702.09	0.49	SW	3.5	7	W
20250702.12	0.69	S	3.2	11	N
20250702.15	0.86	S	3.3	8	NW
20250702.18	0.74	S	3.3	6	E
20250702.21	0.68	S	3.2	7	N
20250703.00	0.79	S	3.2	10	NW
20250703.03	0.71	S	3.3	6	NW
20250703.06	0.55	S	3.4	2	N
20250703.09	0.45	SW	3.5	3	NE
20250703.12	0.40	SW	3.3	3	S
20250703.15	0.39	S	3.1	5	SE
20250703.18	0.49	W	2.8	8	E
20250703.21	0.59	W	2.8	7	SE
20250704.00	0.53	W	3.0	5	NE
20250704.03	0.46	W	3.3	4	N
20250704.06	0.45	W	3.4	3	NW
20250704.09	0.46	SW	3.4	5	NW
20250704.12	0.51	S	3.0	6	NW
20250704.15	0.54	S	2.9	4	N
20250704.18	0.55	SW	3.0	3	SW
20250704.21	0.61	W	3.4	3	W
20250705.00	0.61	W	3.6	4	N
20250705.03	0.55	W	3.6	7	NW
20250705.06	0.62	SW	3.2	10	N
20250705.09	0.74	S	3.1	8	W
20250705.12	0.67	S	3.3	6	SE

Wind condition in the Fort-Shevchenko

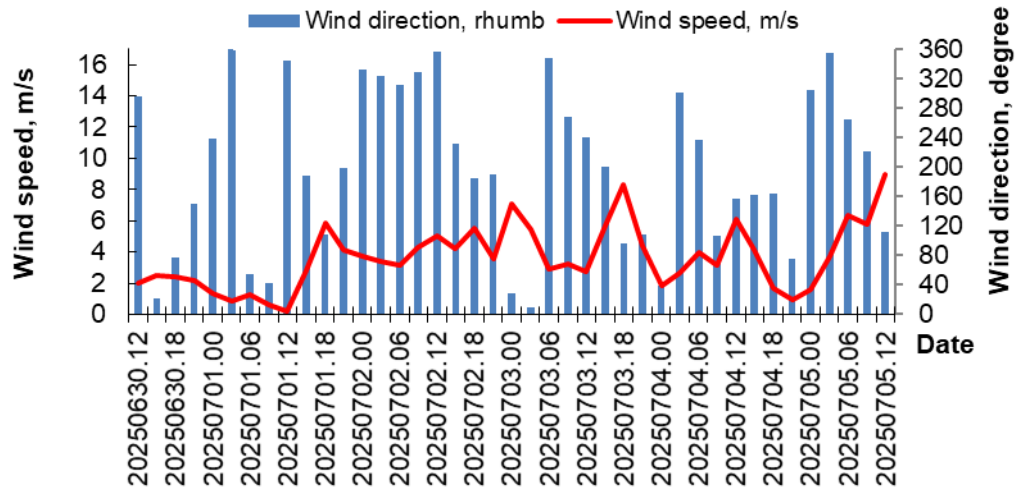


Wave condition in the Fort-Shevchenko

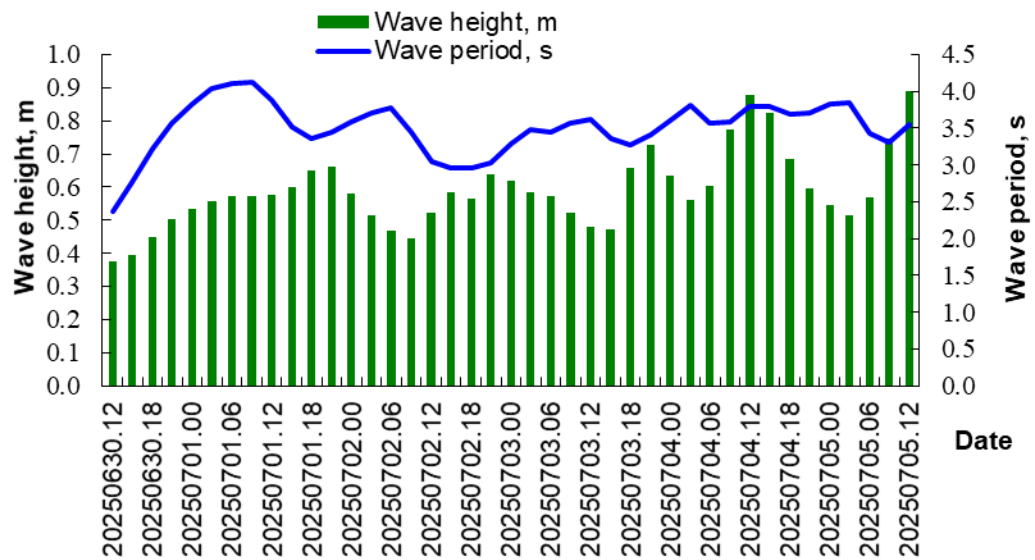


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250630.12	0.24	SE	2.0	3	NW
20250630.15	0.33	S	2.6	2	N
20250630.18	0.41	S	3.2	3	S
20250630.21	0.47	S	3.6	4	E
20250701.00	0.52	S	3.7	4	NE
20250701.03	0.56	SE	3.5	6	E
20250701.06	0.61	SE	3.3	7	S
20250701.09	0.66	E	3.1	6	NE
20250701.12	0.69	E	3.1	6	W
20250701.15	0.73	E	3.1	6	NE
20250701.18	0.70	NE	3.2	7	SE
20250701.21	0.61	NE	3.3	4	SE
20250702.00	0.53	S	3.6	2	SW
20250702.03	0.49	S	3.8	2	SW
20250702.06	0.47	S	3.7	2	SW
20250702.09	0.48	S	3.4	6	N
20250702.12	0.68	S	3.2	10	N
20250702.15	0.75	S	3.3	5	W
20250702.18	0.65	S	3.4	3	SE
20250702.21	0.65	SW	3.5	4	E
20250703.00	0.65	W	3.6	7	N
20250703.03	0.58	W	3.6	4	N
20250703.06	0.51	W	3.6	2	NW
20250703.09	0.45	W	3.5	2	N
20250703.12	0.41	SW	3.3	3	W
20250703.15	0.40	SW	3.0	5	SE
20250703.18	0.53	W	2.9	8	E
20250703.21	0.61	W	3.0	7	SE
20250704.00	0.52	W	3.1	5	NE
20250704.03	0.48	W	3.4	4	N
20250704.06	0.48	SW	3.4	3	NW
20250704.09	0.52	SW	3.2	5	NW
20250704.12	0.56	W	2.9	6	NW
20250704.15	0.57	N	2.8	4	N
20250704.18	0.58	NW	3.0	3	SW
20250704.21	0.56	W	3.3	3	W
20250705.00	0.53	W	3.5	4	N
20250705.03	0.50	W	3.7	7	NW
20250705.06	0.52	W	3.4	10	N
20250705.09	0.65	SW	3.1	8	W
20250705.12	0.66	SW	3.3	6	SE

Wind condition in the Aktau

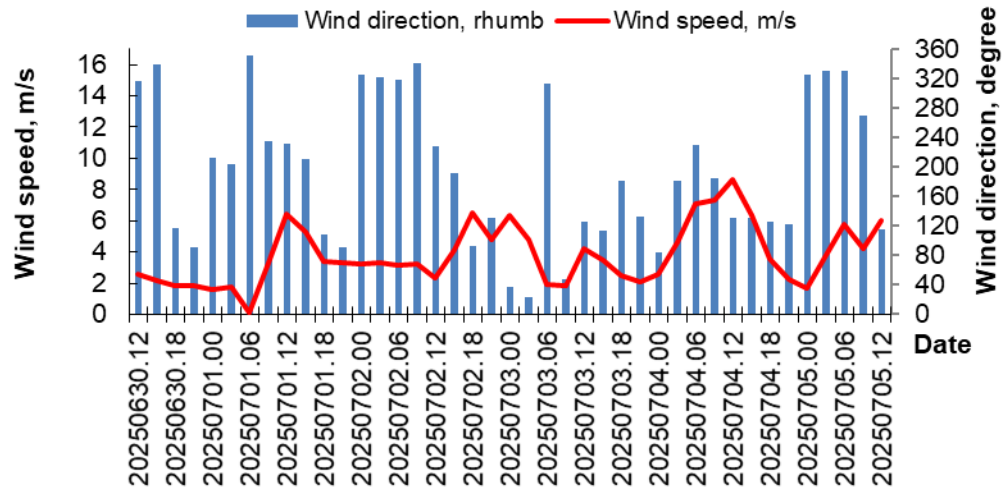


Wave condition in the Aktau

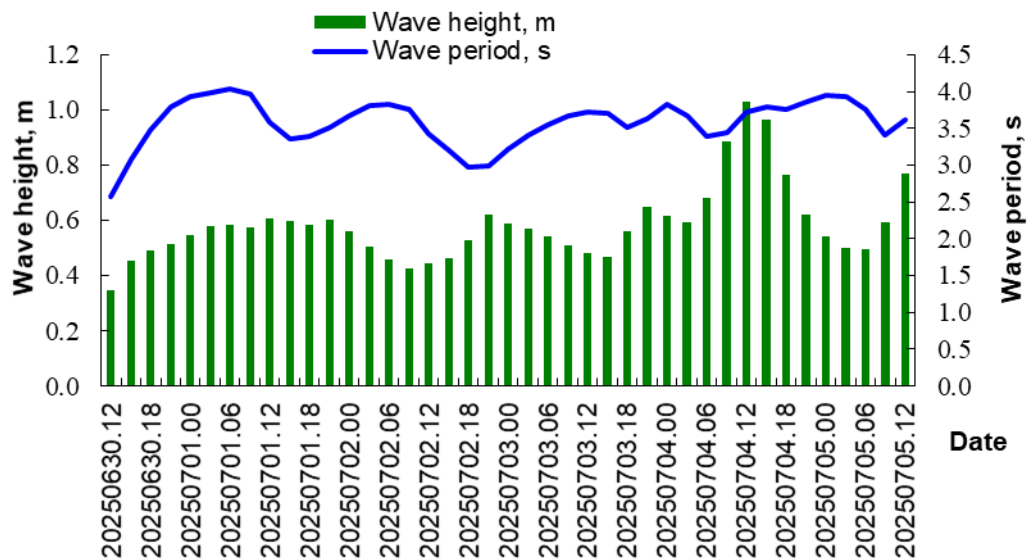


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250630.12	0.38	SE	2.4	2	NW
20250630.15	0.40	SE	2.8	2	N
20250630.18	0.45	SE	3.2	2	E
20250630.21	0.50	SE	3.6	2	SE
20250701.00	0.54	SE	3.8	1	SW
20250701.03	0.56	S	4.0	1	N
20250701.06	0.57	S	4.1	1	NE
20250701.09	0.57	S	4.1	1	NE
20250701.12	0.58	S	3.9	0	N
20250701.15	0.60	S	3.5	3	S
20250701.18	0.65	SW	3.4	6	E
20250701.21	0.66	SW	3.4	4	S
20250702.00	0.58	SW	3.6	4	NW
20250702.03	0.52	SW	3.7	3	NW
20250702.06	0.47	SW	3.8	3	NW
20250702.09	0.45	SW	3.5	4	NW
20250702.12	0.52	S	3.1	5	N
20250702.15	0.58	S	3.0	4	SW
20250702.18	0.57	SW	3.0	6	S
20250702.21	0.64	W	3.0	4	S
20250703.00	0.62	W	3.3	7	NE
20250703.03	0.59	W	3.5	5	N
20250703.06	0.57	W	3.4	3	N
20250703.09	0.52	SW	3.6	3	W
20250703.12	0.48	SW	3.6	3	SW
20250703.15	0.47	SW	3.4	6	S
20250703.18	0.66	W	3.3	8	E
20250703.21	0.73	W	3.4	4	E
20250704.00	0.63	W	3.6	2	NE
20250704.03	0.56	W	3.8	3	NW
20250704.06	0.60	SW	3.6	4	SW
20250704.09	0.77	W	3.6	3	E
20250704.12	0.88	W	3.8	6	SE
20250704.15	0.83	W	3.8	4	S
20250704.18	0.68	W	3.7	2	S
20250704.21	0.60	W	3.7	1	E
20250705.00	0.55	W	3.8	2	NW
20250705.03	0.51	W	3.9	4	N
20250705.06	0.57	W	3.4	6	W
20250705.09	0.74	SW	3.3	6	SW
20250705.12	0.89	W	3.6	9	E

Wind condition in the Peschanyi

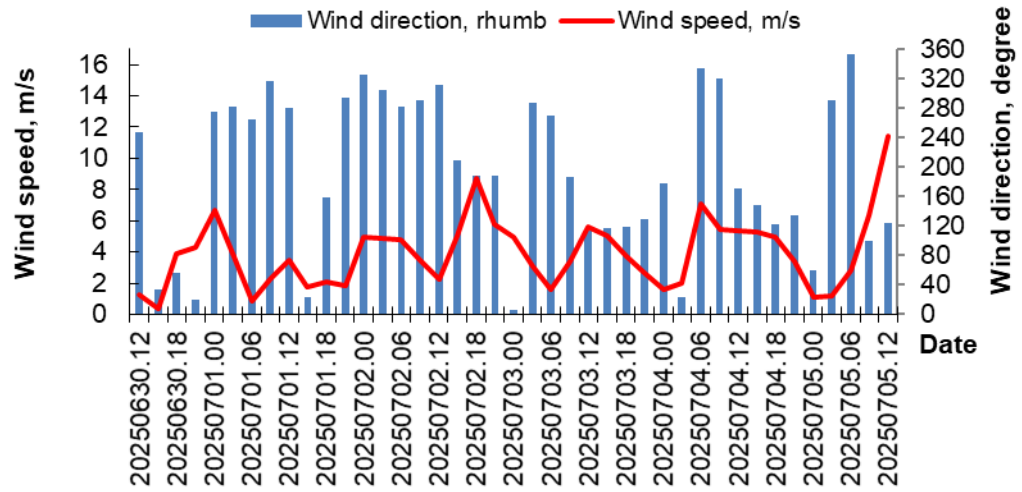


Wave condition in the Peschanyi

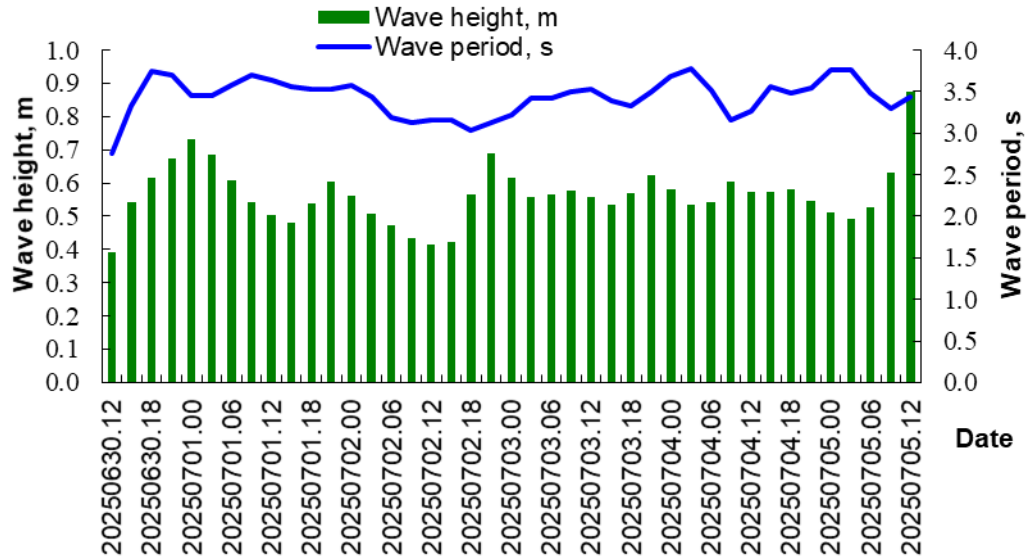


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250630.12	0.35	SE	2.6	3	NW
20250630.15	0.46	SE	3.1	2	N
20250630.18	0.49	SE	3.5	2	SE
20250630.21	0.51	SE	3.8	2	E
20250701.00	0.54	SE	3.9	2	SW
20250701.03	0.58	SE	4.0	2	SW
20250701.06	0.59	SE	4.0	0	N
20250701.09	0.58	S	4.0	3	SW
20250701.12	0.61	S	3.6	6	SW
20250701.15	0.60	S	3.4	5	SW
20250701.18	0.58	SW	3.4	3	E
20250701.21	0.60	SW	3.5	3	E
20250702.00	0.56	SW	3.7	3	NW
20250702.03	0.50	SW	3.8	3	NW
20250702.06	0.46	SW	3.8	3	NW
20250702.09	0.42	SW	3.8	3	N
20250702.12	0.44	SW	3.4	2	SW
20250702.15	0.46	SW	3.2	4	S
20250702.18	0.53	SW	3.0	6	E
20250702.21	0.62	W	3.0	5	SE
20250703.00	0.59	W	3.2	6	NE
20250703.03	0.57	W	3.4	5	NE
20250703.06	0.54	W	3.5	2	NW
20250703.09	0.51	W	3.7	2	NE
20250703.12	0.48	SW	3.7	4	SE
20250703.15	0.47	SW	3.7	3	SE
20250703.18	0.56	W	3.5	3	S
20250703.21	0.65	W	3.6	2	SE
20250704.00	0.62	W	3.8	3	E
20250704.03	0.59	W	3.7	5	S
20250704.06	0.68	W	3.4	7	SW
20250704.09	0.89	W	3.4	7	S
20250704.12	1.03	W	3.7	9	SE
20250704.15	0.97	W	3.8	6	SE
20250704.18	0.77	W	3.8	4	SE
20250704.21	0.62	W	3.9	2	SE
20250705.00	0.54	W	3.9	2	NW
20250705.03	0.50	W	3.9	4	NW
20250705.06	0.50	W	3.8	6	NW
20250705.09	0.59	W	3.4	4	W
20250705.12	0.77	W	3.6	6	SE

Wind condition in the Fetisovo

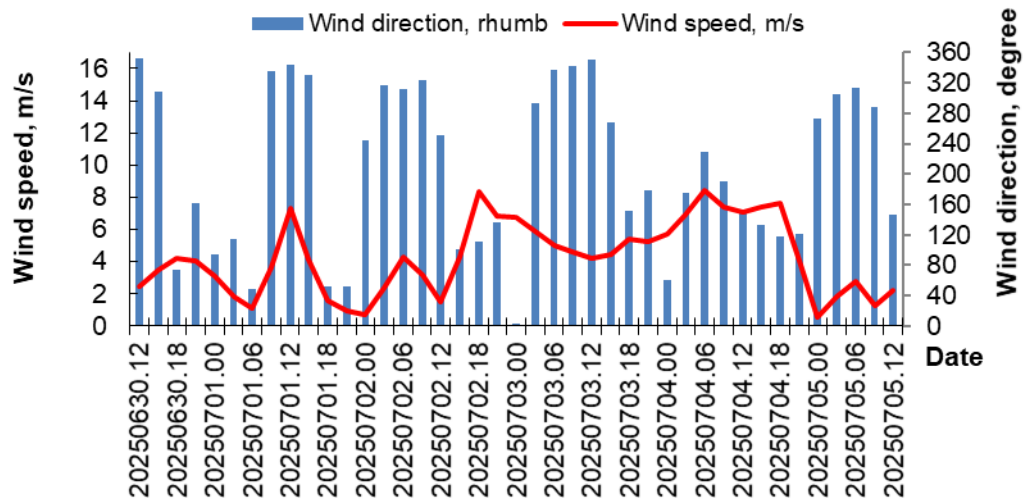


Wave condition in the Fetisovo

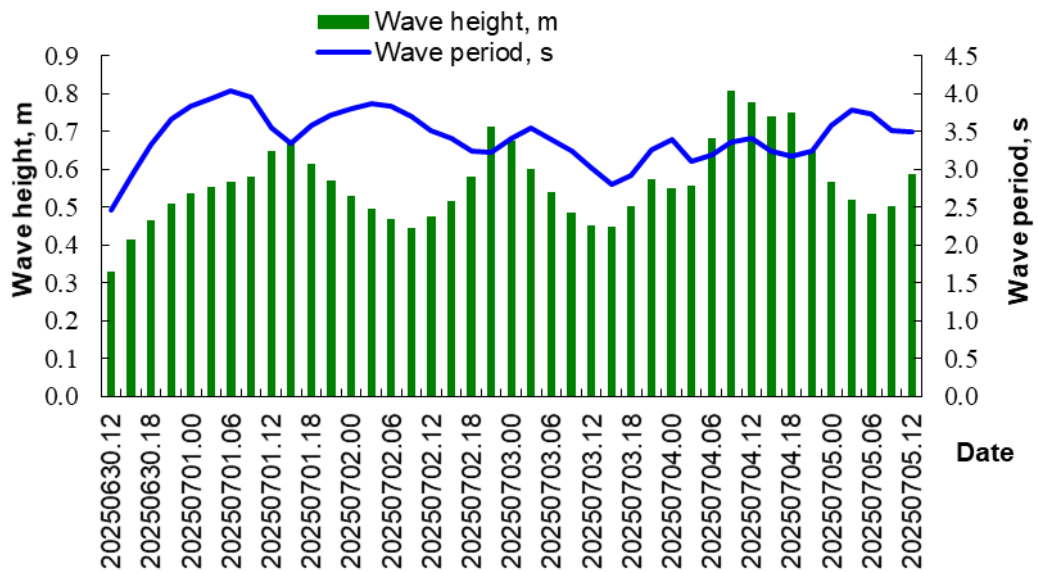


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250630.12	0.39	E	2.8	1	SW
20250630.15	0.54	SE	3.3	0	NE
20250630.18	0.61	SE	3.7	4	NE
20250630.21	0.67	SE	3.7	4	N
20250701.00	0.73	SE	3.5	7	W
20250701.03	0.68	SE	3.5	4	W
20250701.06	0.61	SE	3.6	1	W
20250701.09	0.54	S	3.7	2	NW
20250701.12	0.50	S	3.6	3	W
20250701.15	0.48	S	3.6	2	NE
20250701.18	0.54	SW	3.5	2	S
20250701.21	0.61	W	3.5	2	NW
20250702.00	0.56	W	3.6	5	NW
20250702.03	0.51	SW	3.4	5	NW
20250702.06	0.47	SW	3.2	5	W
20250702.09	0.43	SW	3.1	3	W
20250702.12	0.42	SW	3.2	2	NW
20250702.15	0.42	S	3.2	5	SW
20250702.18	0.56	SW	3.0	9	S
20250702.21	0.69	W	3.1	6	S
20250703.00	0.61	W	3.2	5	N
20250703.03	0.56	W	3.4	3	W
20250703.06	0.57	SW	3.4	2	W
20250703.09	0.58	SW	3.5	3	S
20250703.12	0.56	SW	3.5	6	SE
20250703.15	0.53	SW	3.4	5	SE
20250703.18	0.57	SW	3.3	4	SE
20250703.21	0.62	W	3.5	3	SE
20250704.00	0.58	W	3.7	2	S
20250704.03	0.53	W	3.8	2	NE
20250704.06	0.54	SW	3.5	7	NW
20250704.09	0.61	S	3.2	5	NW
20250704.12	0.57	SW	3.3	5	S
20250704.15	0.57	W	3.6	5	SE
20250704.18	0.58	W	3.5	5	SE
20250704.21	0.55	W	3.5	3	SE
20250705.00	0.51	W	3.8	1	NE
20250705.03	0.49	W	3.8	1	W
20250705.06	0.53	W	3.5	3	N
20250705.09	0.63	SW	3.3	6	E
20250705.12	0.87	W	3.4	11	SE

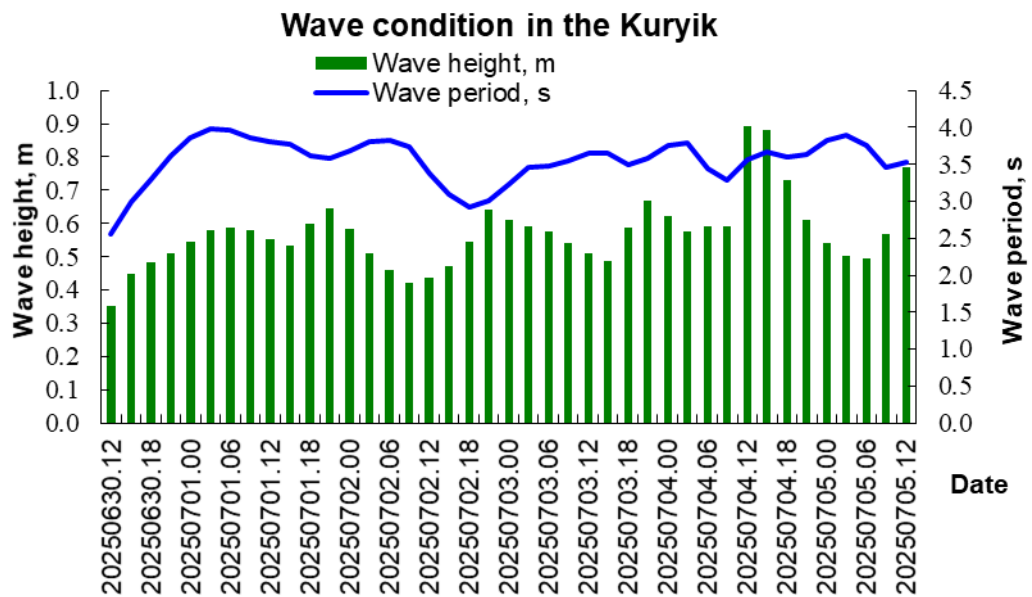
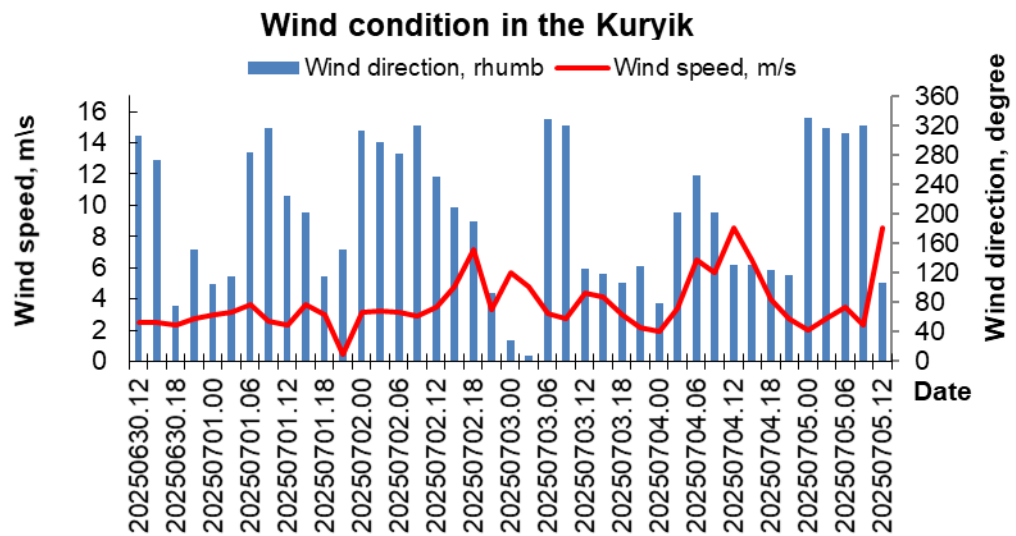
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250630.12	0.33	SE	2.5	2	N
20250630.15	0.41	S	2.9	3	NW
20250630.18	0.47	S	3.3	4	E
20250630.21	0.51	S	3.7	4	S
20250701.00	0.54	S	3.8	3	E
20250701.03	0.55	S	3.9	2	SE
20250701.06	0.57	S	4.0	1	NE
20250701.09	0.58	S	4.0	4	NW
20250701.12	0.65	SE	3.5	7	N
20250701.15	0.68	SE	3.3	4	NW
20250701.18	0.62	SE	3.6	2	NE
20250701.21	0.57	S	3.7	1	NE
20250702.00	0.53	S	3.8	1	SW
20250702.03	0.50	S	3.9	2	NW
20250702.06	0.47	SW	3.8	4	NW
20250702.09	0.45	SW	3.7	3	NW
20250702.12	0.48	S	3.5	1	W
20250702.15	0.52	S	3.4	4	E
20250702.18	0.58	SW	3.2	8	E
20250702.21	0.71	W	3.2	7	SE
20250703.00	0.68	W	3.4	7	N
20250703.03	0.60	W	3.5	6	W
20250703.06	0.54	W	3.4	5	NW
20250703.09	0.48	W	3.2	5	N
20250703.12	0.45	SW	3.0	4	N
20250703.15	0.45	S	2.8	4	W
20250703.18	0.50	SW	2.9	5	SE
20250703.21	0.58	W	3.3	5	S
20250704.00	0.55	W	3.4	6	NE
20250704.03	0.56	W	3.1	7	S
20250704.06	0.68	W	3.2	8	SW
20250704.09	0.81	W	3.4	7	S
20250704.12	0.78	W	3.4	7	SE
20250704.15	0.74	W	3.3	7	SE
20250704.18	0.75	W	3.2	8	SE
20250704.21	0.65	W	3.2	4	SE
20250705.00	0.57	W	3.6	1	W
20250705.03	0.52	W	3.8	2	NW
20250705.06	0.48	W	3.7	3	NW
20250705.09	0.50	W	3.5	1	W
20250705.12	0.59	SW	3.5	2	SE



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250630.12	0.35	E	2.6	2	NW
20250630.15	0.45	SE	3.0	2	W
20250630.18	0.48	SE	3.3	2	E
20250630.21	0.51	SE	3.6	3	SE
20250701.00	0.55	S	3.9	3	E
20250701.03	0.58	S	4.0	3	SE
20250701.06	0.59	S	4.0	4	W
20250701.09	0.58	S	3.9	3	NW
20250701.12	0.55	S	3.8	2	SW
20250701.15	0.53	S	3.8	4	S
20250701.18	0.60	SW	3.6	3	SE
20250701.21	0.65	SW	3.6	0	SE
20250702.00	0.58	SW	3.7	3	NW
20250702.03	0.51	SW	3.8	3	NW
20250702.06	0.46	SW	3.8	3	W
20250702.09	0.42	SW	3.7	3	NW
20250702.12	0.44	SW	3.4	3	W
20250702.15	0.47	SW	3.1	5	SW
20250702.18	0.55	SW	2.9	7	S
20250702.21	0.64	W	3.0	3	E
20250703.00	0.61	W	3.2	6	NE
20250703.03	0.59	W	3.5	5	N
20250703.06	0.57	W	3.5	3	NW
20250703.09	0.54	SW	3.5	3	NW
20250703.12	0.51	SW	3.6	4	SE
20250703.15	0.49	SW	3.7	4	SE
20250703.18	0.59	W	3.5	3	E
20250703.21	0.67	W	3.6	2	SE
20250704.00	0.62	W	3.8	2	E
20250704.03	0.57	W	3.8	3	S
20250704.06	0.59	W	3.4	6	W
20250704.09	0.59	W	3.3	6	S
20250704.12	0.89	W	3.6	9	SE
20250704.15	0.88	W	3.7	6	SE
20250704.18	0.73	W	3.6	4	SE
20250704.21	0.61	W	3.6	3	SE
20250705.00	0.54	W	3.8	2	NW
20250705.03	0.50	W	3.9	3	NW
20250705.06	0.49	W	3.8	3	NW
20250705.09	0.57	SW	3.5	2	NW
20250705.12	0.77	W	3.5	9	E

**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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