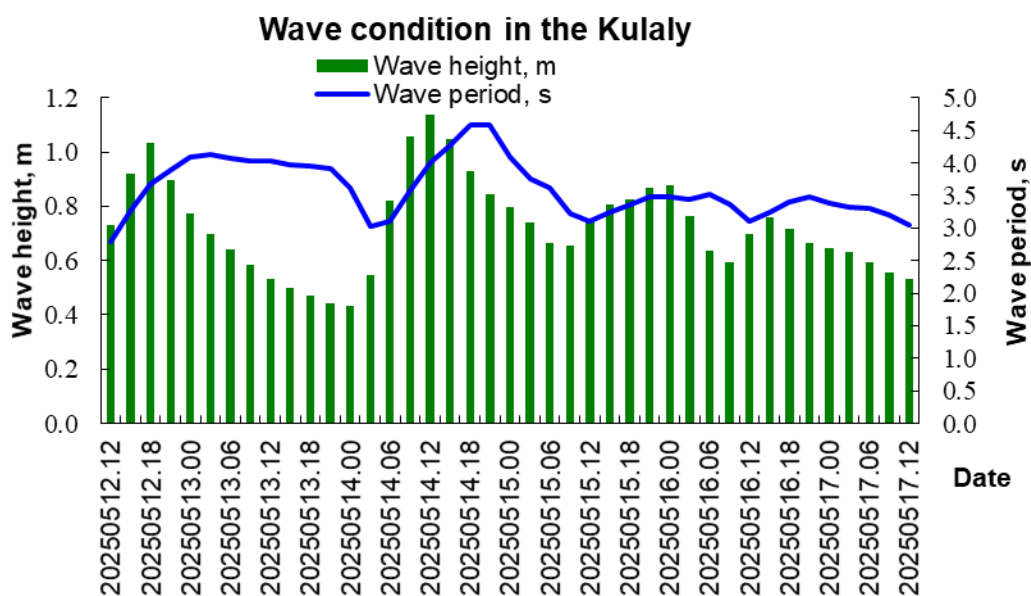
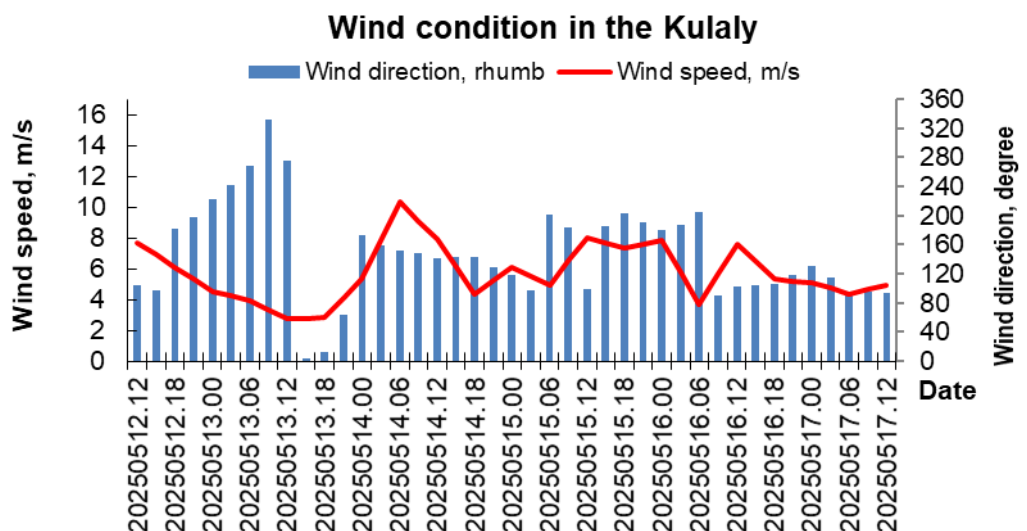




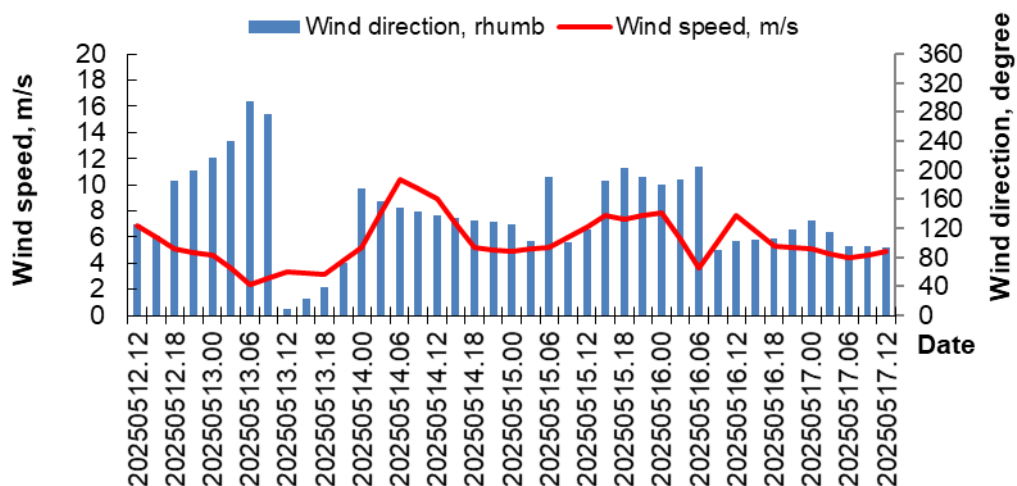
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period May 12 - 17, 2025.**

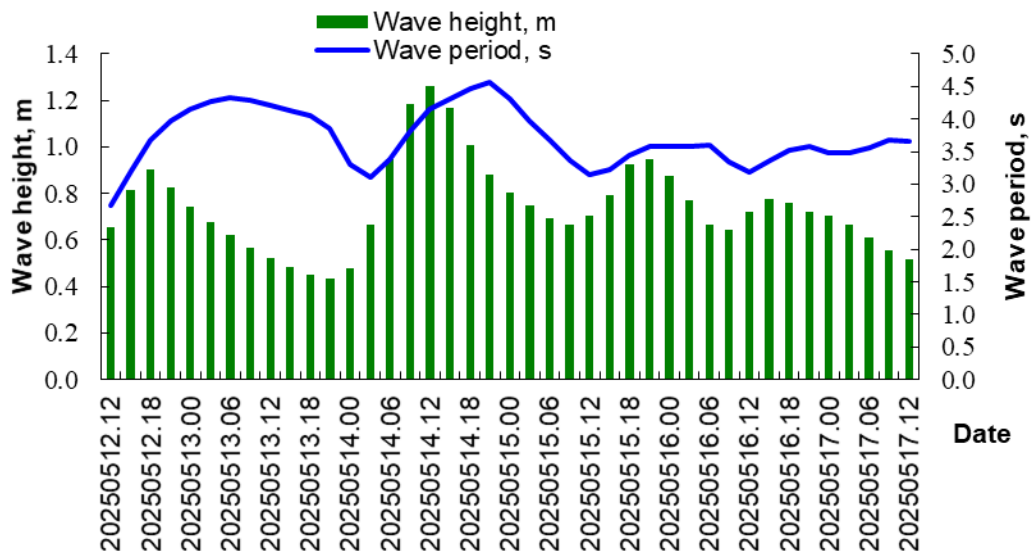


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250512.12	0.73	W	2.8	8	E
20250512.15	0.92	W	3.3	7	E
20250512.18	1.03	W	3.7	6	S
20250512.21	0.90	W	3.9	5	S
20250513.00	0.77	W	4.1	5	SW
20250513.03	0.70	W	4.1	4	SW
20250513.06	0.64	W	4.1	4	W
20250513.09	0.58	W	4.0	3	NW
20250513.12	0.53	W	4.0	3	W
20250513.15	0.50	W	4.0	3	N
20250513.18	0.47	W	3.9	3	N
20250513.21	0.44	W	3.9	4	NE
20250514.00	0.44	W	3.6	5	S
20250514.03	0.55	NW	3.0	8	S
20250514.06	0.82	NW	3.1	10	SE
20250514.09	1.06	NW	3.6	9	SE
20250514.12	1.14	NW	4.0	8	SE
20250514.15	1.05	NW	4.3	6	SE
20250514.18	0.93	NW	4.6	4	SE
20250514.21	0.84	NW	4.6	5	SE
20250515.00	0.79	NW	4.1	6	SE
20250515.03	0.74	NW	3.8	6	E
20250515.06	0.66	NW	3.6	5	S
20250515.09	0.66	NW	3.2	6	S
20250515.12	0.75	W	3.1	8	E
20250515.15	0.81	W	3.2	8	S
20250515.18	0.83	W	3.4	7	SW
20250515.21	0.87	W	3.5	8	S
20250516.00	0.88	W	3.5	8	S
20250516.03	0.76	W	3.4	6	S
20250516.06	0.64	W	3.5	4	SW
20250516.09	0.60	W	3.4	6	E
20250516.12	0.70	W	3.1	8	E
20250516.15	0.76	W	3.2	7	E
20250516.18	0.72	W	3.4	5	E
20250516.21	0.67	SW	3.5	5	SE
20250517.00	0.65	W	3.4	5	SE
20250517.03	0.63	W	3.3	5	SE
20250517.06	0.59	W	3.3	4	E
20250517.09	0.55	W	3.2	5	E
20250517.12	0.53	W	3.0	5	E

Wind condition in the Fort-Shevchenko

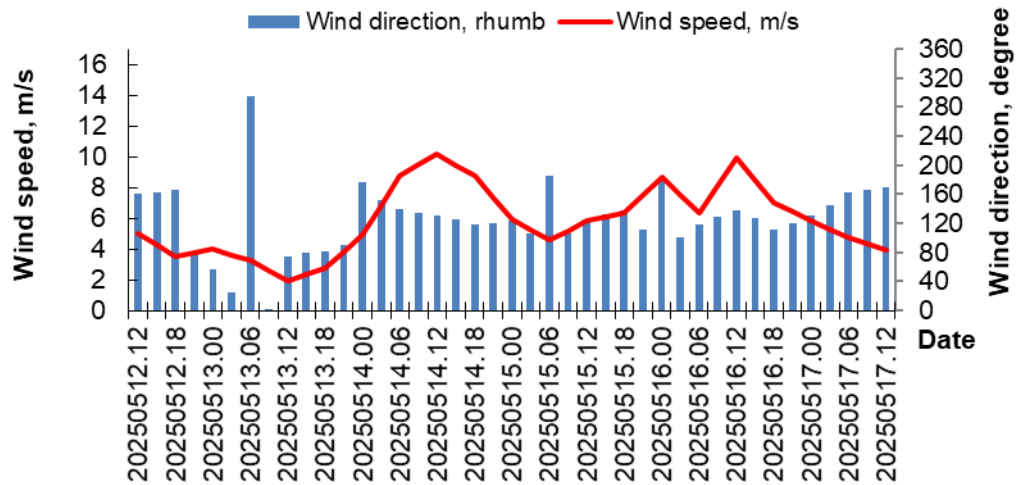


Wave condition in the Fort-Shevchenko

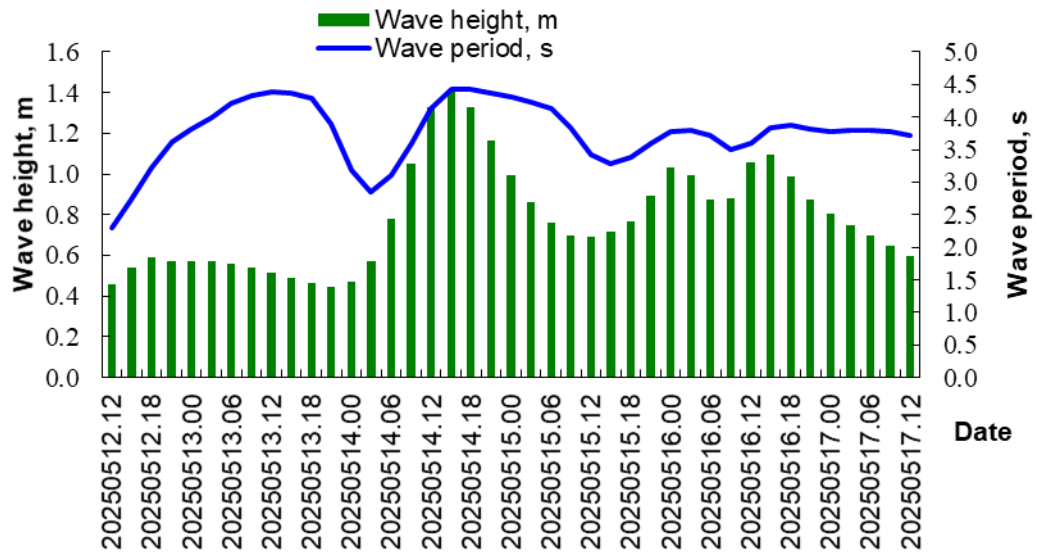


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250512.12	0.65	NW	2.7	7	SE
20250512.15	0.82	NW	3.2	6	E
20250512.18	0.91	W	3.7	5	S
20250512.21	0.83	W	4.0	5	S
20250513.00	0.74	W	4.2	5	SW
20250513.03	0.68	W	4.3	4	SW
20250513.06	0.62	W	4.3	2	NW
20250513.09	0.57	W	4.3	3	W
20250513.12	0.52	W	4.2	3	N
20250513.15	0.48	W	4.1	3	NE
20250513.18	0.45	W	4.1	3	NE
20250513.21	0.44	W	3.8	4	E
20250514.00	0.48	W	3.3	5	S
20250514.03	0.66	NW	3.1	8	SE
20250514.06	0.95	NW	3.4	10	SE
20250514.09	1.18	NW	3.8	10	SE
20250514.12	1.26	NW	4.1	9	SE
20250514.15	1.17	NW	4.3	7	SE
20250514.18	1.01	NW	4.5	5	SE
20250514.21	0.88	NW	4.6	5	SE
20250515.00	0.80	NW	4.3	5	SE
20250515.03	0.75	NW	4.0	5	E
20250515.06	0.70	NW	3.7	5	S
20250515.09	0.67	NW	3.4	6	E
20250515.12	0.70	NW	3.1	7	SE
20250515.15	0.79	W	3.2	8	S
20250515.18	0.93	W	3.4	7	SW
20250515.21	0.95	W	3.6	8	S
20250516.00	0.88	W	3.6	8	S
20250516.03	0.77	W	3.6	6	S
20250516.06	0.67	W	3.6	4	SW
20250516.09	0.64	W	3.3	6	E
20250516.12	0.72	W	3.2	8	E
20250516.15	0.78	W	3.4	7	E
20250516.18	0.76	W	3.5	5	E
20250516.21	0.72	W	3.6	5	SE
20250517.00	0.71	W	3.5	5	SE
20250517.03	0.66	W	3.5	5	SE
20250517.06	0.61	W	3.6	4	E
20250517.09	0.55	W	3.7	5	E
20250517.12	0.52	W	3.7	5	E

Wind condition in the Aktau

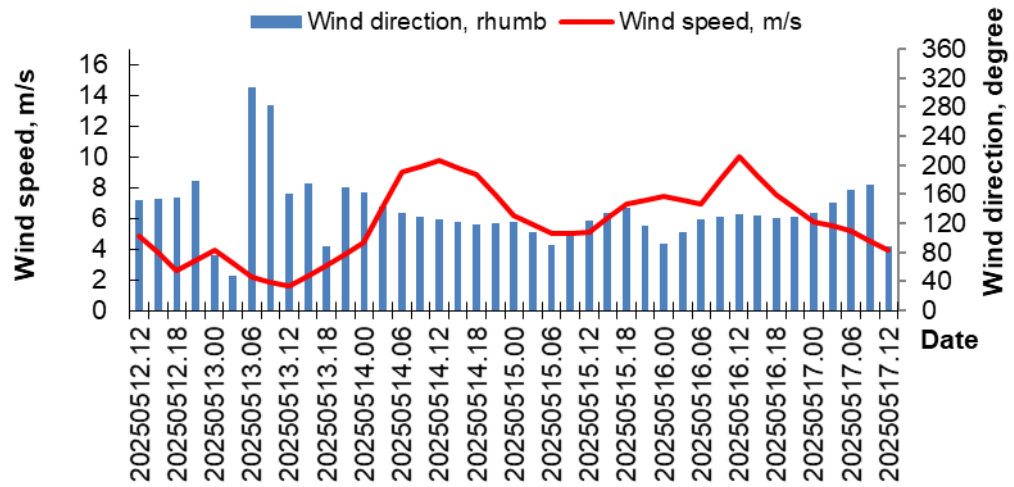


Wave condition in the Aktau

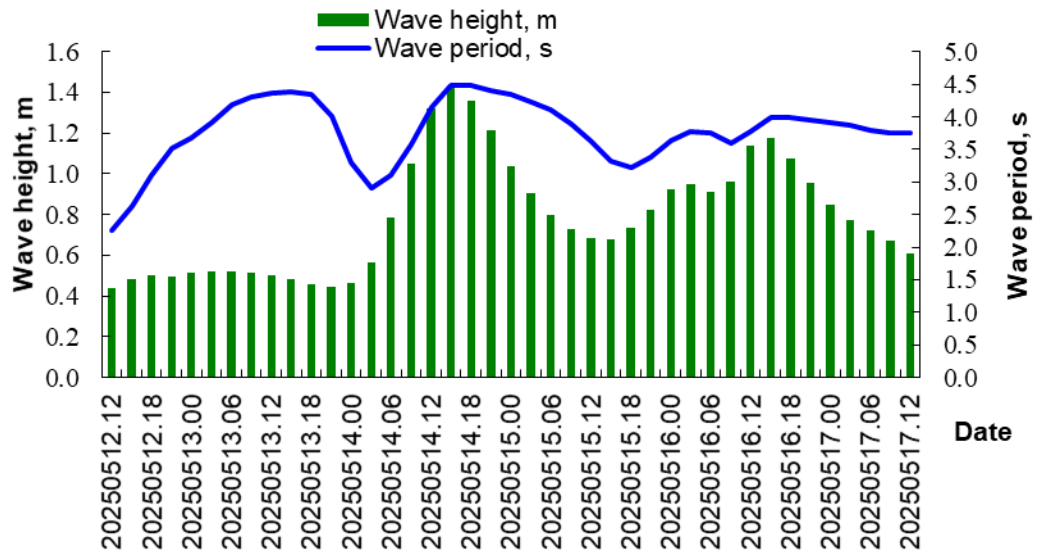


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250512.12	0.46	N	2.3	5	S
20250512.15	0.54	NW	2.7	4	S
20250512.18	0.59	NW	3.2	4	S
20250512.21	0.57	NW	3.6	4	E
20250513.00	0.57	NW	3.8	4	NE
20250513.03	0.57	NW	4.0	4	NE
20250513.06	0.56	NW	4.2	3	NW
20250513.09	0.54	NW	4.3	3	N
20250513.12	0.52	NW	4.4	2	E
20250513.15	0.49	W	4.4	2	E
20250513.18	0.46	W	4.3	3	E
20250513.21	0.44	W	3.9	4	E
20250514.00	0.47	NW	3.2	5	S
20250514.03	0.57	NW	2.9	7	SE
20250514.06	0.78	NW	3.1	9	SE
20250514.09	1.05	NW	3.6	9	SE
20250514.12	1.33	NW	4.1	10	SE
20250514.15	1.42	NW	4.4	9	SE
20250514.18	1.33	NW	4.4	9	SE
20250514.21	1.16	NW	4.4	7	SE
20250515.00	0.99	NW	4.3	6	SE
20250515.03	0.86	NW	4.2	5	E
20250515.06	0.76	NW	4.1	5	S
20250515.09	0.70	NW	3.8	5	E
20250515.12	0.69	NW	3.4	6	SE
20250515.15	0.71	NW	3.3	6	SE
20250515.18	0.77	NW	3.4	6	SE
20250515.21	0.89	NW	3.6	8	E
20250516.00	1.03	W	3.8	9	S
20250516.03	1.00	W	3.8	7	E
20250516.06	0.88	W	3.7	6	SE
20250516.09	0.88	W	3.5	8	SE
20250516.12	1.06	NW	3.6	10	SE
20250516.15	1.10	NW	3.8	8	SE
20250516.18	0.99	NW	3.9	7	E
20250516.21	0.87	W	3.8	6	SE
20250517.00	0.80	W	3.8	6	SE
20250517.03	0.75	W	3.8	5	SE
20250517.06	0.70	W	3.8	5	S
20250517.09	0.65	W	3.8	4	S
20250517.12	0.60	W	3.7	4	S

Wind condition in the Peschanyi

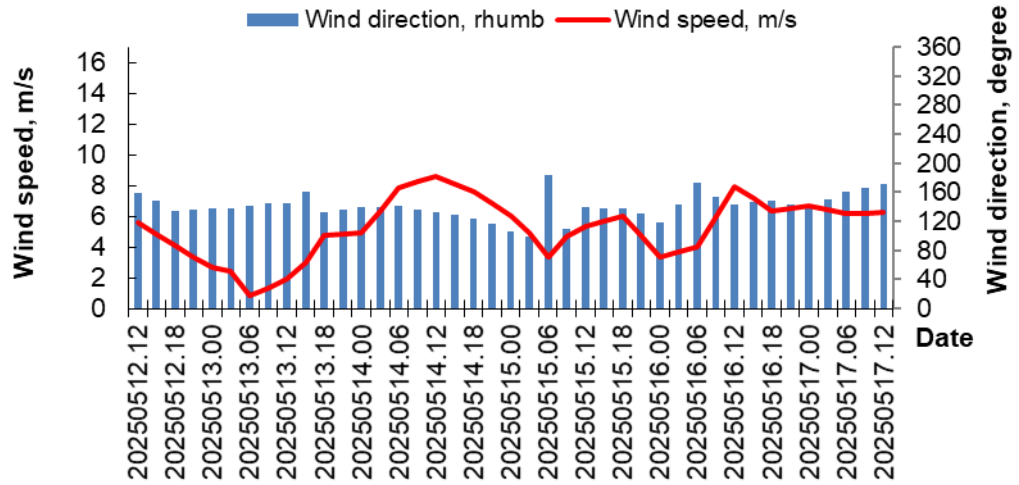


Wave condition in the Peschanyi

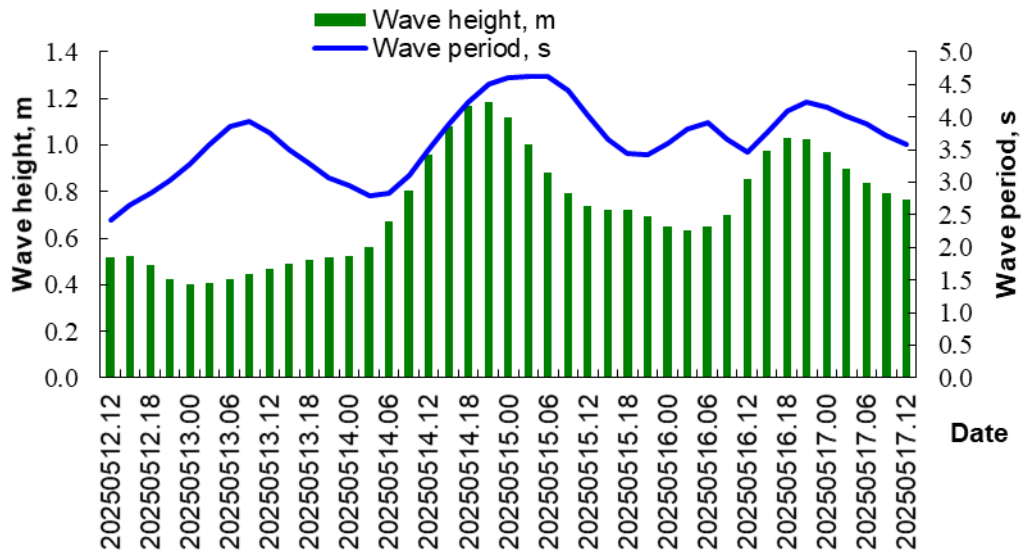


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250512.12	0.44	NW	2.3	5	SE
20250512.15	0.49	NW	2.6	4	SE
20250512.18	0.50	NW	3.1	3	SE
20250512.21	0.50	NW	3.5	3	S
20250513.00	0.51	NW	3.7	4	E
20250513.03	0.52	NW	3.9	3	NE
20250513.06	0.52	NW	4.2	2	NW
20250513.09	0.51	NW	4.3	2	W
20250513.12	0.50	NW	4.4	2	S
20250513.15	0.48	NW	4.4	2	S
20250513.18	0.46	W	4.3	3	E
20250513.21	0.44	W	4.0	4	S
20250514.00	0.46	NW	3.3	4	S
20250514.03	0.56	NW	2.9	7	SE
20250514.06	0.78	NW	3.1	9	SE
20250514.09	1.05	NW	3.6	9	SE
20250514.12	1.32	NW	4.1	10	SE
20250514.15	1.42	NW	4.5	9	SE
20250514.18	1.36	NW	4.5	9	SE
20250514.21	1.21	NW	4.4	7	SE
20250515.00	1.04	NW	4.3	6	SE
20250515.03	0.90	NW	4.2	6	E
20250515.06	0.80	NW	4.1	5	E
20250515.09	0.73	NW	3.9	5	E
20250515.12	0.68	NW	3.6	5	SE
20250515.15	0.68	NW	3.3	6	SE
20250515.18	0.74	NW	3.2	7	SE
20250515.21	0.82	NW	3.4	7	SE
20250516.00	0.93	NW	3.6	7	E
20250516.03	0.95	W	3.8	7	E
20250516.06	0.91	W	3.7	7	SE
20250516.09	0.96	NW	3.6	9	SE
20250516.12	1.14	NW	3.8	10	SE
20250516.15	1.18	NW	4.0	9	SE
20250516.18	1.07	NW	4.0	8	SE
20250516.21	0.95	NW	3.9	7	SE
20250517.00	0.85	NW	3.9	6	SE
20250517.03	0.77	NW	3.9	5	SE
20250517.06	0.72	W	3.8	5	S
20250517.09	0.67	W	3.7	5	S
20250517.12	0.61	W	3.8	4	E

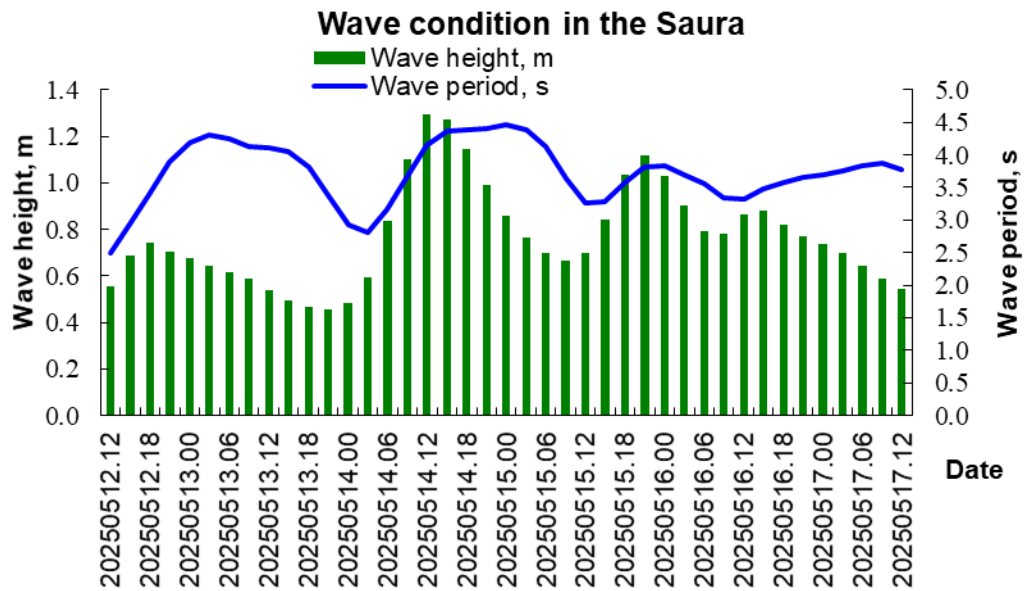
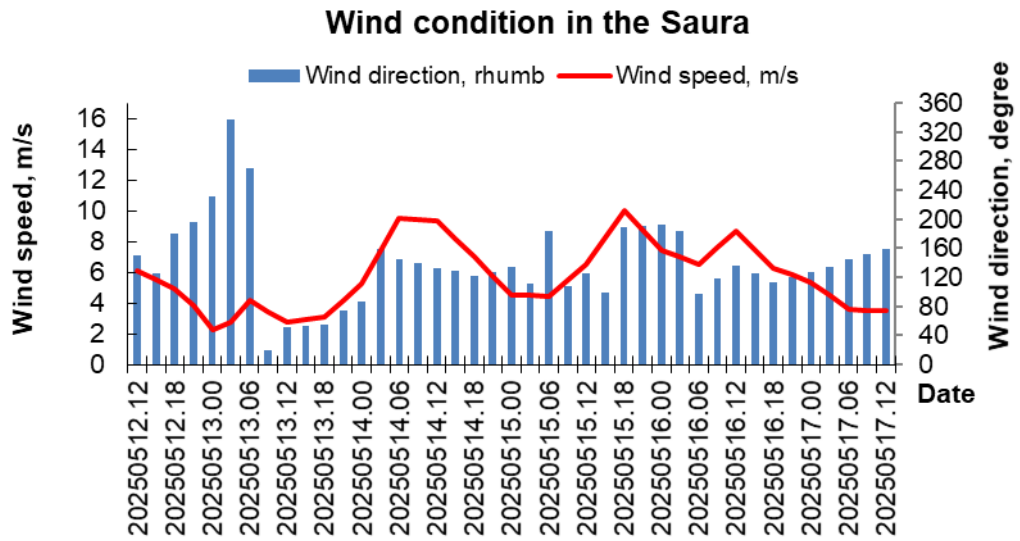
Wind condition in the Fetisovo



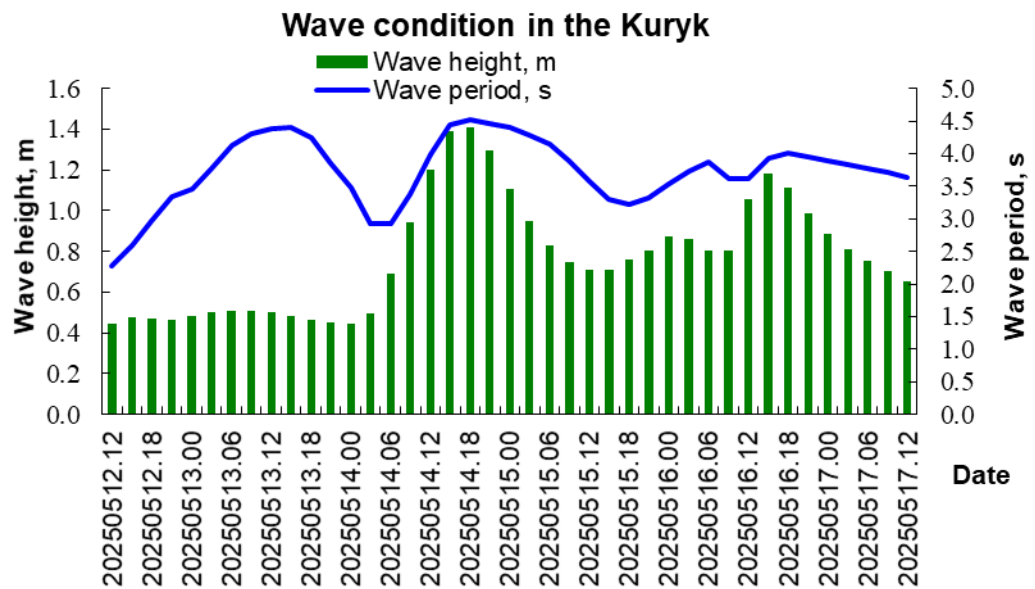
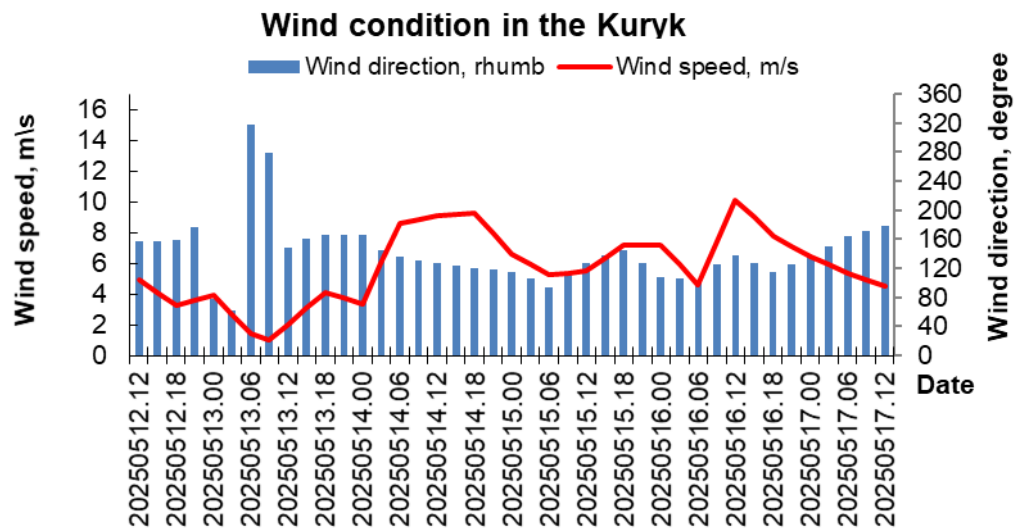
Wave condition in the Fetisovo



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250512.12	0.52	N	2.4	6	S
20250512.15	0.53	N	2.6	5	SE
20250512.18	0.48	NW	2.8	4	SE
20250512.21	0.42	NW	3.0	3	SE
20250513.00	0.40	NW	3.3	3	SE
20250513.03	0.41	NW	3.6	2	SE
20250513.06	0.42	NW	3.8	1	SE
20250513.09	0.44	NW	3.9	1	SE
20250513.12	0.47	NW	3.8	2	SE
20250513.15	0.49	NW	3.5	3	S
20250513.18	0.51	NW	3.3	5	SE
20250513.21	0.52	NW	3.1	5	SE
20250514.00	0.52	NW	3.0	5	SE
20250514.03	0.56	NW	2.8	6	SE
20250514.06	0.67	NW	2.8	8	SE
20250514.09	0.81	NW	3.1	8	SE
20250514.12	0.96	NW	3.5	9	SE
20250514.15	1.08	NW	3.9	8	SE
20250514.18	1.17	NW	4.2	8	SE
20250514.21	1.18	NW	4.5	7	SE
20250515.00	1.12	NW	4.6	6	E
20250515.03	1.00	NW	4.6	5	E
20250515.06	0.88	NW	4.6	3	S
20250515.09	0.79	NW	4.4	5	E
20250515.12	0.74	NW	4.0	5	SE
20250515.15	0.72	NW	3.7	6	SE
20250515.18	0.72	NW	3.4	6	SE
20250515.21	0.70	NW	3.4	5	SE
20250516.00	0.65	NW	3.6	3	SE
20250516.03	0.64	NW	3.8	4	SE
20250516.06	0.65	NW	3.9	4	S
20250516.09	0.70	NW	3.7	6	SE
20250516.12	0.85	NW	3.5	8	SE
20250516.15	0.98	NW	3.8	7	SE
20250516.18	1.03	NW	4.1	6	SE
20250516.21	1.02	NW	4.2	7	SE
20250517.00	0.97	NW	4.1	7	SE
20250517.03	0.90	NW	4.0	6	SE
20250517.06	0.84	NW	3.9	6	S
20250517.09	0.79	NW	3.7	6	S
20250517.12	0.77	NW	3.6	6	S



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250512.12	0.56	NW	2.5	6	SE
20250512.15	0.69	NW	3.0	6	SE
20250512.18	0.74	NW	3.4	5	S
20250512.21	0.70	NW	3.9	4	S
20250513.00	0.68	NW	4.2	2	SW
20250513.03	0.64	W	4.3	3	N
20250513.06	0.62	W	4.3	4	W
20250513.09	0.59	NW	4.1	3	N
20250513.12	0.54	W	4.1	3	NE
20250513.15	0.50	W	4.1	3	NE
20250513.18	0.46	W	3.8	3	NE
20250513.21	0.45	W	3.4	4	E
20250514.00	0.48	NW	2.9	5	E
20250514.03	0.59	NW	2.8	7	S
20250514.06	0.83	NW	3.2	10	SE
20250514.09	1.10	NW	3.7	9	SE
20250514.12	1.30	NW	4.1	9	SE
20250514.15	1.27	NW	4.4	8	SE
20250514.18	1.14	NW	4.4	7	SE
20250514.21	0.99	NW	4.4	6	SE
20250515.00	0.86	NW	4.5	5	SE
20250515.03	0.77	NW	4.4	4	E
20250515.06	0.70	NW	4.1	4	S
20250515.09	0.67	NW	3.6	5	E
20250515.12	0.70	NW	3.3	7	SE
20250515.15	0.84	NW	3.3	8	E
20250515.18	1.04	W	3.6	10	S
20250515.21	1.12	W	3.8	9	S
20250516.00	1.03	W	3.8	7	S
20250516.03	0.90	W	3.7	7	S
20250516.06	0.79	W	3.5	7	E
20250516.09	0.78	W	3.3	8	SE
20250516.12	0.86	W	3.3	9	SE
20250516.15	0.88	W	3.5	7	SE
20250516.18	0.82	W	3.6	6	SE
20250516.21	0.77	W	3.7	6	SE
20250517.00	0.74	W	3.7	5	SE
20250517.03	0.70	W	3.7	4	SE
20250517.06	0.64	W	3.8	4	SE
20250517.09	0.59	W	3.9	4	SE
20250517.12	0.54	W	3.8	3	S



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250512.12	0.45	NW	2.3	5	SE
20250512.15	0.47	NW	2.6	4	S
20250512.18	0.47	NW	3.0	3	S
20250512.21	0.46	NW	3.3	4	S
20250513.00	0.49	NW	3.5	4	E
20250513.03	0.50	NW	3.8	3	NE
20250513.06	0.51	NW	4.1	1	NW
20250513.09	0.51	NW	4.3	1	W
20250513.12	0.50	NW	4.4	2	SE
20250513.15	0.48	NW	4.4	3	S
20250513.18	0.47	NW	4.2	4	S
20250513.21	0.45	NW	3.8	4	S
20250514.00	0.44	NW	3.5	3	S
20250514.03	0.50	NW	2.9	6	SE
20250514.06	0.69	NW	2.9	9	SE
20250514.09	0.94	NW	3.4	9	SE
20250514.12	1.20	NW	4.0	9	SE
20250514.15	1.39	NW	4.4	9	SE
20250514.18	1.41	NW	4.5	9	SE
20250514.21	1.30	NW	4.5	8	SE
20250515.00	1.10	NW	4.4	7	SE
20250515.03	0.95	NW	4.3	6	E
20250515.06	0.83	NW	4.1	5	E
20250515.09	0.75	NW	3.9	5	E
20250515.12	0.71	NW	3.6	6	SE
20250515.15	0.71	NW	3.3	6	SE
20250515.18	0.76	NW	3.2	7	SE
20250515.21	0.80	NW	3.3	7	SE
20250516.00	0.87	NW	3.5	7	E
20250516.03	0.86	NW	3.7	6	E
20250516.06	0.81	NW	3.9	5	E
20250516.09	0.81	NW	3.6	7	SE
20250516.12	1.06	NW	3.6	10	SE
20250516.15	1.18	NW	3.9	9	SE
20250516.18	1.11	NW	4.0	8	SE
20250516.21	0.99	NW	3.9	7	SE
20250517.00	0.89	NW	3.9	6	SE
20250517.03	0.81	NW	3.8	6	SE
20250517.06	0.75	NW	3.8	5	S
20250517.09	0.70	NW	3.7	5	S
20250517.12	0.65	NW	3.6	5	S

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

Compiled by: Bazarbay L.B.

Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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