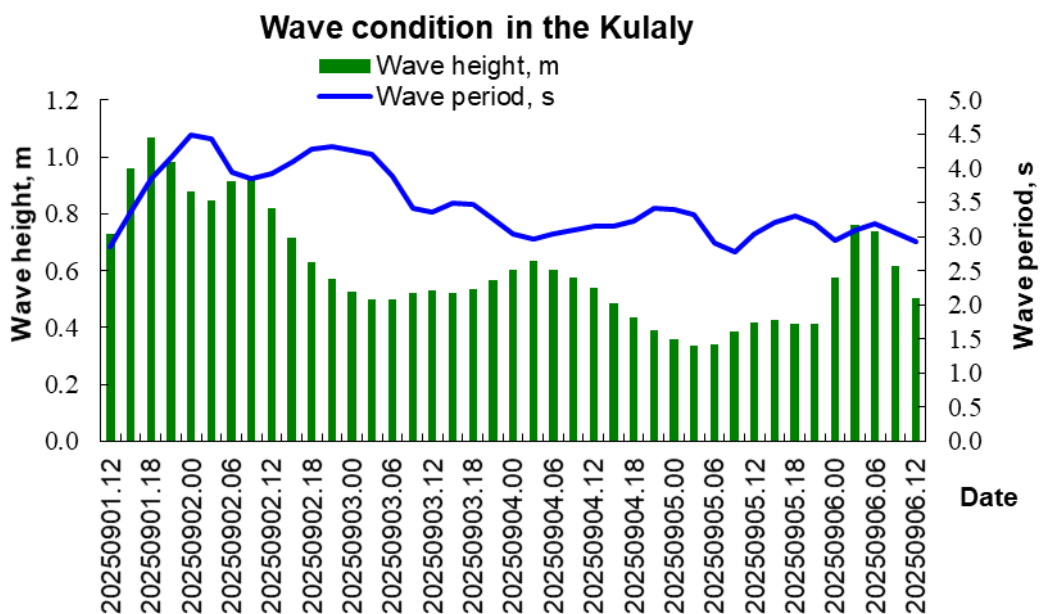
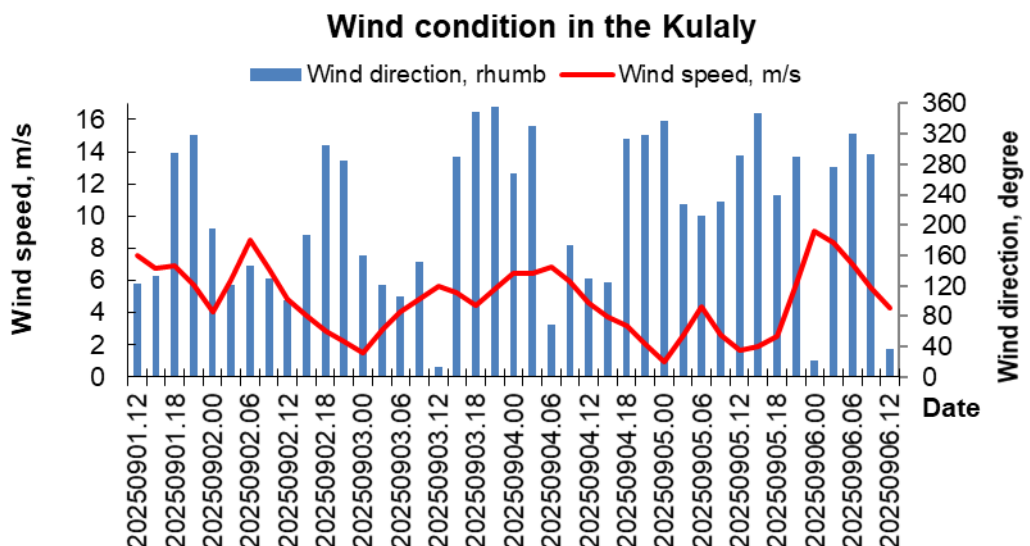




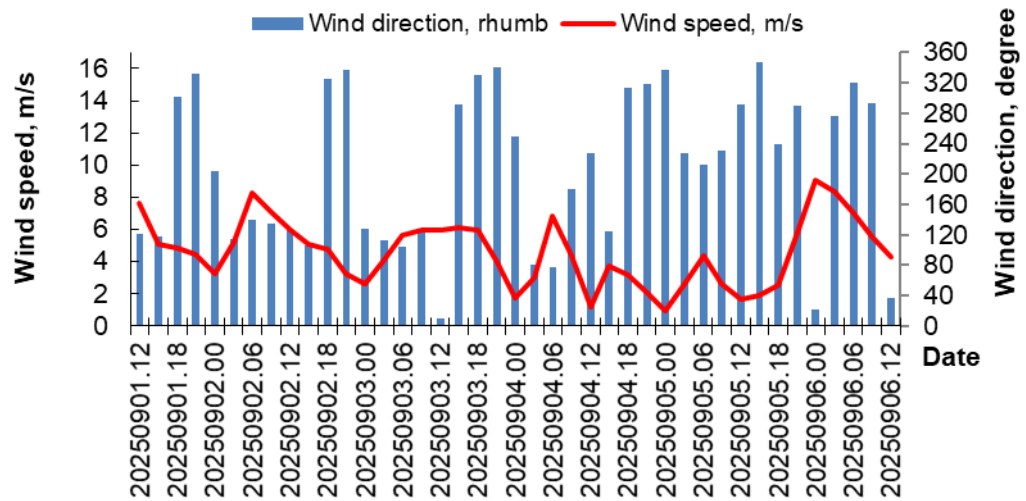
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period September 01 – 06, 2025.**

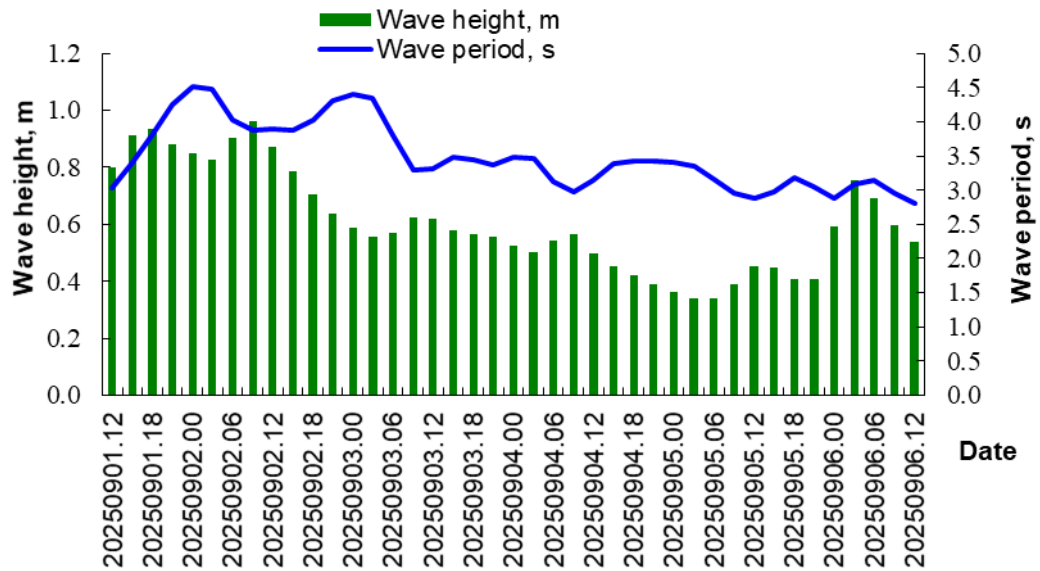


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250901.12	0.73	NW	2.8	8	SE
20250901.15	0.96	NW	3.4	7	SE
20250901.18	1.07	NW	3.8	7	NW
20250901.21	0.98	NW	4.2	6	NW
20250902.00	0.88	NW	4.5	4	S
20250902.03	0.85	NW	4.4	6	SE
20250902.06	0.92	NW	3.9	8	SE
20250902.09	0.93	NW	3.8	7	SE
20250902.12	0.82	NW	3.9	5	E
20250902.15	0.72	NW	4.1	4	S
20250902.18	0.63	NW	4.3	3	NW
20250902.21	0.57	NW	4.3	2	W
20250903.00	0.53	NW	4.3	2	S
20250903.03	0.50	N	4.2	3	SE
20250903.06	0.50	N	3.9	4	E
20250903.09	0.52	N	3.4	5	SE
20250903.12	0.53	NE	3.4	6	N
20250903.15	0.52	NE	3.5	5	W
20250903.18	0.53	E	3.5	4	N
20250903.21	0.57	E	3.3	6	N
20250904.00	0.60	SE	3.0	6	W
20250904.03	0.63	SE	3.0	6	NW
20250904.06	0.60	SE	3.0	7	E
20250904.09	0.58	NE	3.1	6	S
20250904.12	0.54	NE	3.2	5	SE
20250904.15	0.48	NE	3.2	4	SE
20250904.18	0.43	NE	3.2	3	NW
20250904.21	0.39	NE	3.4	2	NW
20250905.00	0.36	E	3.4	1	N
20250905.03	0.34	E	3.3	3	SW
20250905.06	0.34	E	2.9	4	SW
20250905.09	0.39	NE	2.8	3	SW
20250905.12	0.42	N	3.0	2	W
20250905.15	0.42	N	3.2	2	N
20250905.18	0.41	N	3.3	3	SW
20250905.21	0.41	N	3.2	6	W
20250906.00	0.58	NE	2.9	9	N
20250906.03	0.76	E	3.1	8	W
20250906.06	0.74	E	3.2	7	NW
20250906.09	0.62	E	3.1	6	NW
20250906.12	0.50	E	2.9	4	NE

Wind condition in the Fort-Shevchenko

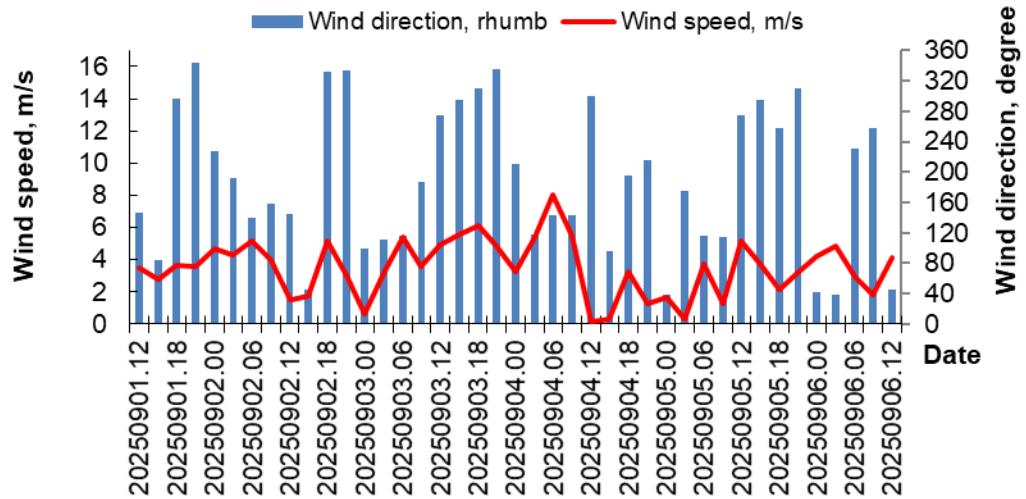


Wave condition in the Fort-Shevchenko

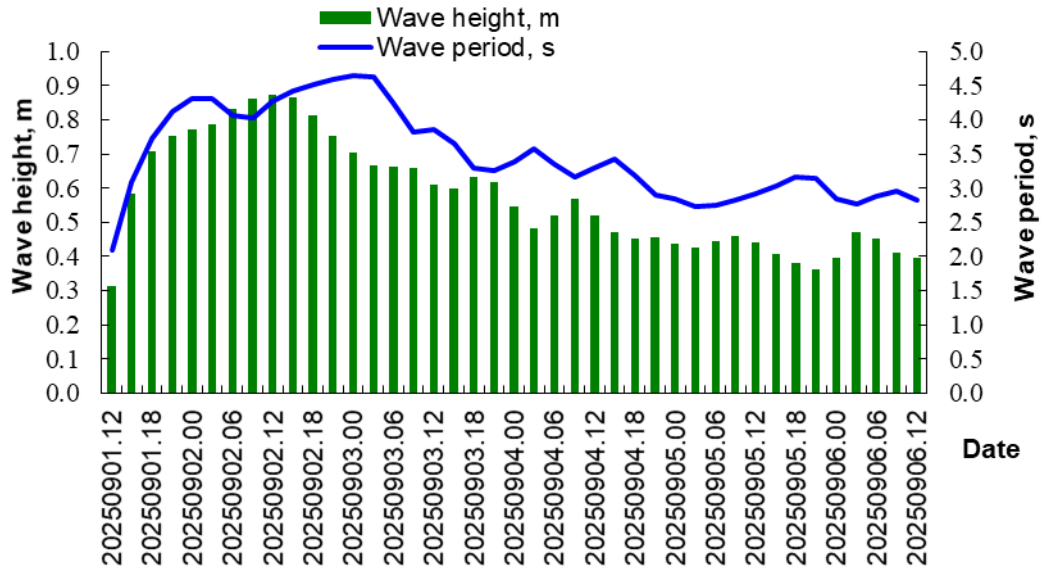


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250901.12	0.80	NW	3.0	8	SE
20250901.15	0.91	NW	3.4	5	SE
20250901.18	0.93	NW	3.8	5	NW
20250901.21	0.88	NW	4.3	4	NW
20250902.00	0.85	NW	4.5	3	SW
20250902.03	0.83	NW	4.5	5	SE
20250902.06	0.90	NW	4.0	8	SE
20250902.09	0.96	NW	3.9	7	SE
20250902.12	0.87	NW	3.9	6	SE
20250902.15	0.79	NW	3.9	5	E
20250902.18	0.71	NW	4.0	5	NW
20250902.21	0.64	NW	4.3	3	N
20250903.00	0.59	NW	4.4	3	SE
20250903.03	0.55	N	4.4	4	E
20250903.06	0.57	N	3.8	6	E
20250903.09	0.63	N	3.3	6	SE
20250903.12	0.62	N	3.3	6	N
20250903.15	0.58	NE	3.5	6	W
20250903.18	0.57	E	3.4	6	NW
20250903.21	0.56	E	3.4	4	N
20250904.00	0.52	E	3.5	2	W
20250904.03	0.50	E	3.5	3	E
20250904.06	0.54	E	3.1	7	E
20250904.09	0.56	NE	3.0	4	S
20250904.12	0.50	NE	3.2	1	SW
20250904.15	0.45	NE	3.4	4	SE
20250904.18	0.42	NE	3.4	3	NW
20250904.21	0.39	NE	3.4	2	NW
20250905.00	0.36	NE	3.4	1	N
20250905.03	0.34	NE	3.3	3	SW
20250905.06	0.34	NE	3.2	4	SW
20250905.09	0.39	NE	3.0	3	SW
20250905.12	0.45	NE	2.9	2	W
20250905.15	0.45	NE	3.0	2	N
20250905.18	0.41	NE	3.2	3	SW
20250905.21	0.41	NE	3.1	6	W
20250906.00	0.59	NE	2.9	9	N
20250906.03	0.76	E	3.1	8	W
20250906.06	0.69	E	3.2	7	NW
20250906.09	0.60	E	2.9	6	NW
20250906.12	0.54	E	2.8	4	NE

Wind condition in the Aktau

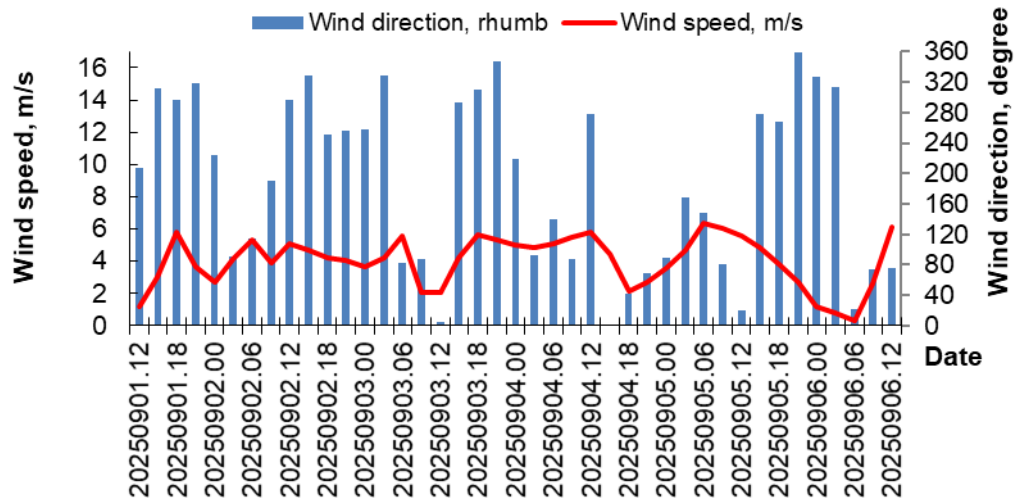


Wave condition in the Aktau

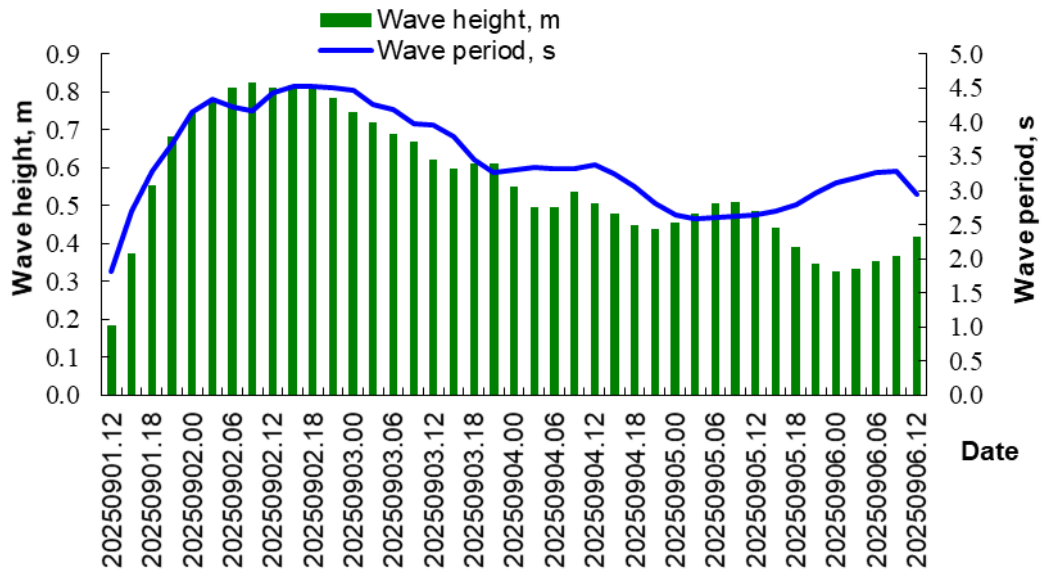


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250901.12	0.31	NW	2.1	4	SE
20250901.15	0.58	NW	3.1	3	E
20250901.18	0.71	NW	3.7	4	NW
20250901.21	0.75	W	4.1	4	N
20250902.00	0.77	W	4.3	5	SW
20250902.03	0.79	W	4.3	4	S
20250902.06	0.83	W	4.1	5	SE
20250902.09	0.86	NW	4.0	4	S
20250902.12	0.87	NW	4.3	2	SE
20250902.15	0.87	NW	4.4	2	NE
20250902.18	0.81	NW	4.5	5	NW
20250902.21	0.75	NW	4.6	3	NW
20250903.00	0.70	NW	4.6	1	E
20250903.03	0.67	N	4.6	3	E
20250903.06	0.66	N	4.2	5	SE
20250903.09	0.66	N	3.8	4	S
20250903.12	0.61	N	3.9	5	W
20250903.15	0.60	NE	3.7	6	NW
20250903.18	0.63	E	3.3	6	NW
20250903.21	0.62	E	3.3	5	NW
20250904.00	0.55	E	3.4	3	SW
20250904.03	0.48	E	3.6	5	SE
20250904.06	0.52	NE	3.3	8	SE
20250904.09	0.57	N	3.2	5	SE
20250904.12	0.52	N	3.3	0	NW
20250904.15	0.47	N	3.4	0	E
20250904.18	0.45	N	3.2	3	S
20250904.21	0.46	N	2.9	1	SW
20250905.00	0.44	N	2.8	2	NE
20250905.03	0.43	N	2.7	0	S
20250905.06	0.45	N	2.7	4	SE
20250905.09	0.46	N	2.8	1	SE
20250905.12	0.44	N	2.9	5	W
20250905.15	0.41	N	3.0	4	NW
20250905.18	0.38	NE	3.2	2	W
20250905.21	0.36	NE	3.1	3	NW
20250906.00	0.39	NE	2.9	4	NE
20250906.03	0.47	NE	2.8	5	NE
20250906.06	0.45	NE	2.9	3	SW
20250906.09	0.41	N	3.0	2	W
20250906.12	0.40	N	2.8	4	NE

Wind condition in the Peschanyi

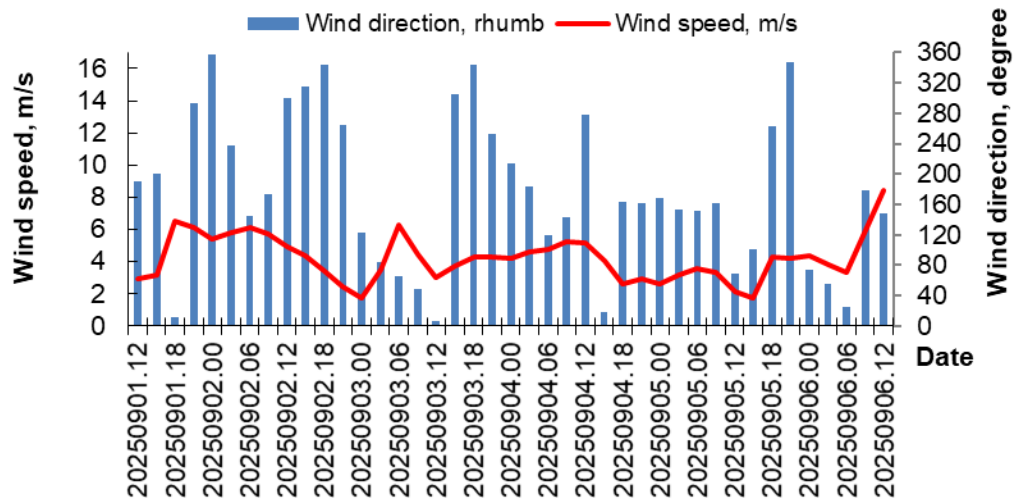


Wave condition in the Peschanyi

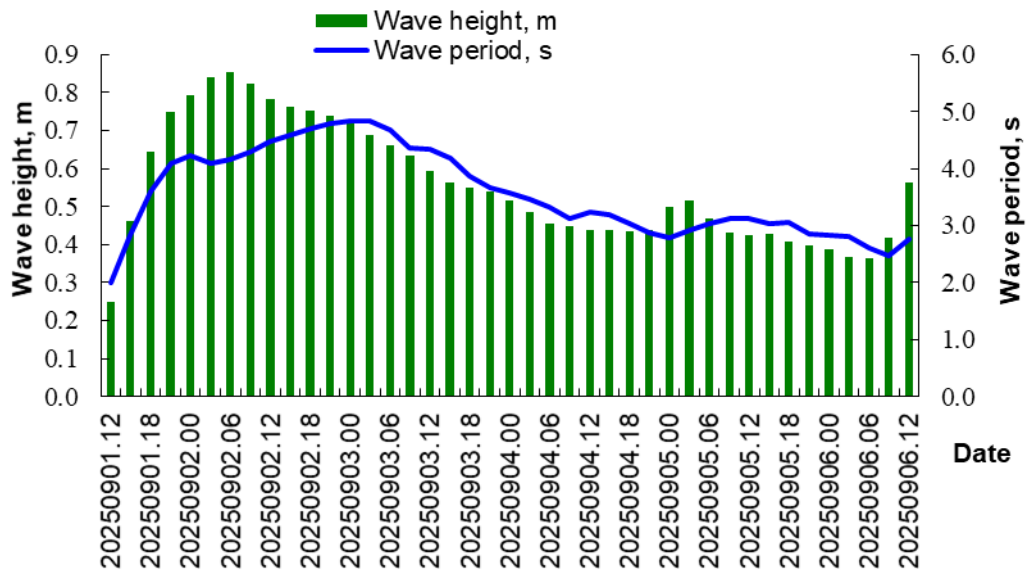


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250901.12	0.18	NW	1.8	1	SW
20250901.15	0.37	NW	2.7	3	NW
20250901.18	0.55	W	3.3	6	NW
20250901.21	0.68	W	3.7	4	NW
20250902.00	0.74	W	4.1	3	SW
20250902.03	0.77	W	4.3	4	E
20250902.06	0.81	W	4.2	5	SE
20250902.09	0.83	W	4.2	4	S
20250902.12	0.81	W	4.4	5	NW
20250902.15	0.82	NW	4.5	5	NW
20250902.18	0.81	NW	4.5	4	W
20250902.21	0.78	NW	4.5	4	W
20250903.00	0.75	NW	4.5	4	W
20250903.03	0.72	NW	4.3	4	NW
20250903.06	0.69	N	4.2	6	E
20250903.09	0.67	N	4.0	2	E
20250903.12	0.62	N	4.0	2	N
20250903.15	0.60	NE	3.8	4	NW
20250903.18	0.61	E	3.5	6	NW
20250903.21	0.61	SE	3.3	5	N
20250904.00	0.55	SE	3.3	5	SW
20250904.03	0.49	SE	3.3	5	E
20250904.06	0.50	NE	3.3	5	SE
20250904.09	0.54	N	3.3	6	E
20250904.12	0.51	N	3.4	6	W
20250904.15	0.48	N	3.2	4	N
20250904.18	0.45	N	3.1	2	NE
20250904.21	0.44	NE	2.8	3	E
20250905.00	0.45	NE	2.6	4	E
20250905.03	0.48	N	2.6	5	S
20250905.06	0.51	N	2.6	6	SE
20250905.09	0.51	N	2.6	6	E
20250905.12	0.49	N	2.7	6	N
20250905.15	0.44	NE	2.7	5	W
20250905.18	0.39	NE	2.8	4	W
20250905.21	0.35	NE	3.0	3	N
20250906.00	0.33	NE	3.1	1	NW
20250906.03	0.33	N	3.2	1	NW
20250906.06	0.35	N	3.3	0	N
20250906.09	0.37	N	3.3	3	E
20250906.12	0.42	N	2.9	6	E

Wind condition in the Fetisovo

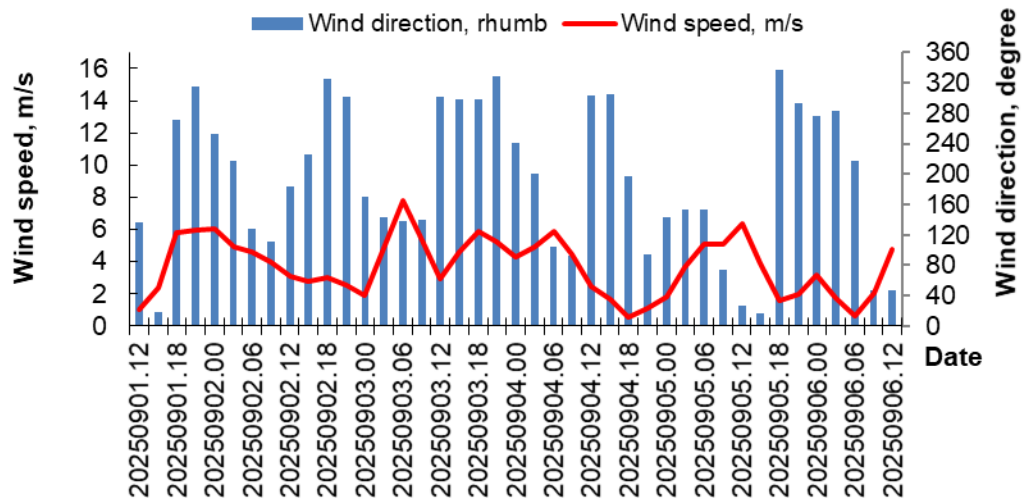


Wave condition in the Fetisovo

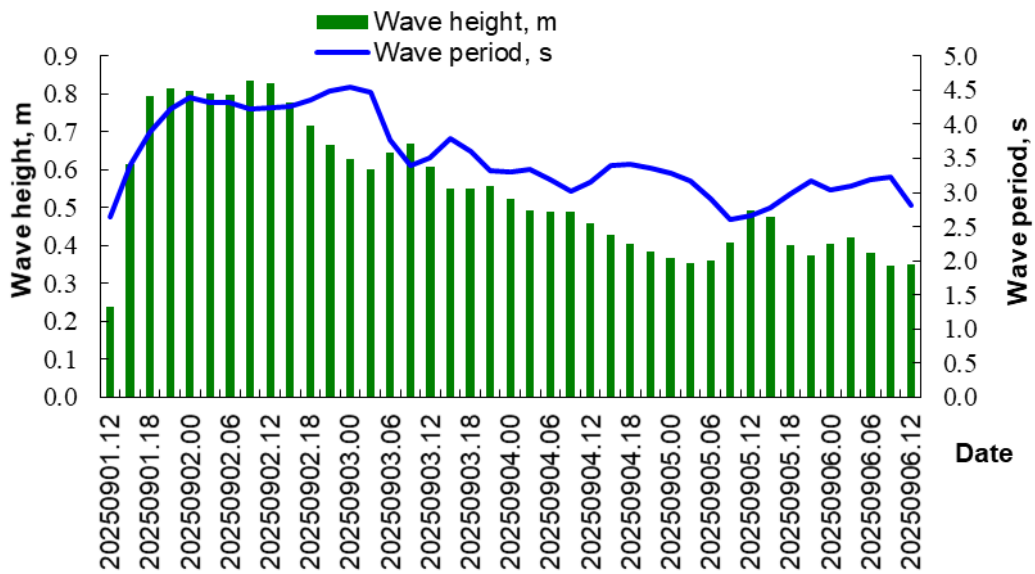


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250901.12	0.25	W	2.0	3	S
20250901.15	0.46	W	2.8	3	S
20250901.18	0.65	W	3.6	7	N
20250901.21	0.75	W	4.1	6	NW
20250902.00	0.79	W	4.2	5	N
20250902.03	0.84	W	4.1	6	SW
20250902.06	0.85	W	4.2	6	SE
20250902.09	0.82	W	4.3	6	S
20250902.12	0.78	W	4.5	5	NW
20250902.15	0.76	NW	4.6	4	NW
20250902.18	0.75	NW	4.7	3	N
20250902.21	0.74	NW	4.8	2	W
20250903.00	0.72	NW	4.8	2	SE
20250903.03	0.69	NW	4.8	4	E
20250903.06	0.66	N	4.7	6	NE
20250903.09	0.64	N	4.4	4	NE
20250903.12	0.59	N	4.3	3	N
20250903.15	0.56	N	4.2	4	NW
20250903.18	0.55	N	3.9	4	N
20250903.21	0.54	NE	3.7	4	W
20250904.00	0.52	NE	3.6	4	SW
20250904.03	0.49	NE	3.5	5	S
20250904.06	0.45	N	3.3	5	SE
20250904.09	0.45	N	3.1	5	SE
20250904.12	0.44	N	3.2	5	W
20250904.15	0.44	N	3.2	4	N
20250904.18	0.43	N	3.0	3	S
20250904.21	0.44	N	2.9	3	S
20250905.00	0.50	N	2.8	3	S
20250905.03	0.51	N	2.9	3	SE
20250905.06	0.47	N	3.0	4	SE
20250905.09	0.43	N	3.1	3	S
20250905.12	0.43	N	3.1	2	E
20250905.15	0.43	NE	3.0	2	E
20250905.18	0.41	NE	3.1	4	W
20250905.21	0.40	NE	2.9	4	N
20250906.00	0.39	E	2.8	4	E
20250906.03	0.37	NE	2.8	4	NE
20250906.06	0.37	NE	2.6	3	NE
20250906.09	0.42	N	2.5	6	S
20250906.12	0.56	N	2.8	8	SE

Wind condition in the Saura

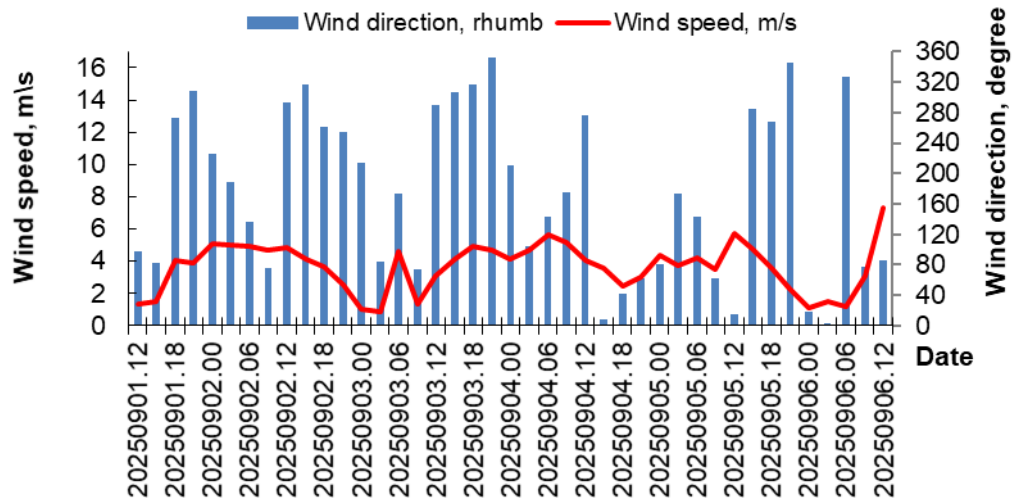


Wave condition in the Saura

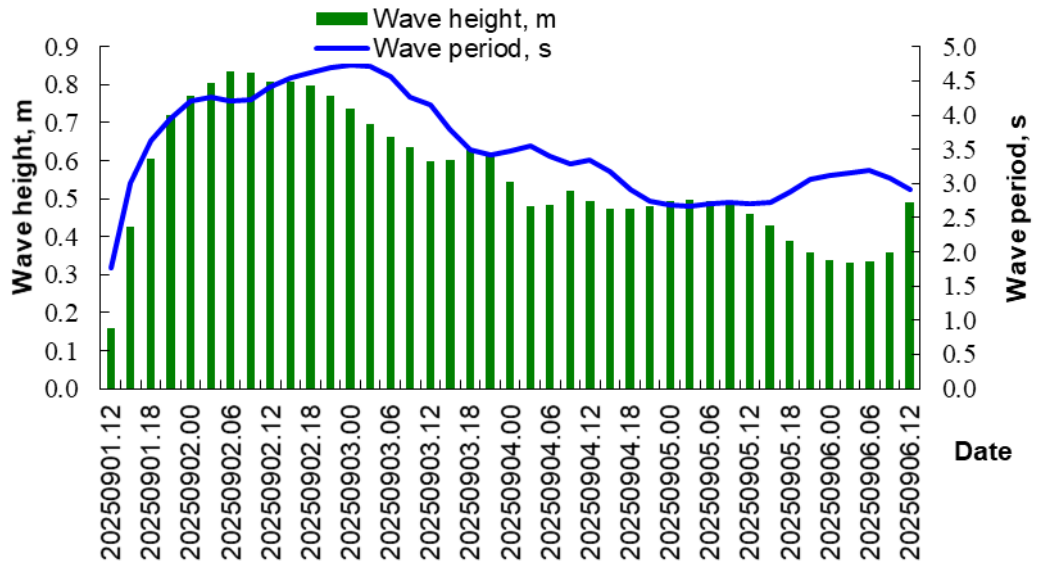


Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250901.12	0.24	NW	2.7	1	SE
20250901.15	0.62	NW	3.4	2	N
20250901.18	0.79	NW	3.9	6	W
20250901.21	0.81	NW	4.2	6	NW
20250902.00	0.81	NW	4.4	6	W
20250902.03	0.80	NW	4.3	5	SW
20250902.06	0.80	NW	4.3	5	SE
20250902.09	0.83	NW	4.2	4	E
20250902.12	0.83	NW	4.2	3	S
20250902.15	0.78	NW	4.3	3	SW
20250902.18	0.72	NW	4.4	3	NW
20250902.21	0.67	NW	4.5	3	NW
20250903.00	0.63	NW	4.5	2	S
20250903.03	0.60	N	4.5	5	SE
20250903.06	0.64	N	3.8	8	SE
20250903.09	0.67	N	3.4	5	SE
20250903.12	0.61	N	3.5	3	NW
20250903.15	0.55	NE	3.8	5	NW
20250903.18	0.55	E	3.6	6	NW
20250903.21	0.56	E	3.3	5	NW
20250904.00	0.52	E	3.3	4	SW
20250904.03	0.49	E	3.3	5	S
20250904.06	0.49	E	3.2	6	E
20250904.09	0.49	E	3.0	4	E
20250904.12	0.46	NE	3.2	2	NW
20250904.15	0.43	NE	3.4	2	NW
20250904.18	0.41	NE	3.4	1	S
20250904.21	0.38	NE	3.4	1	E
20250905.00	0.37	NE	3.3	2	SE
20250905.03	0.36	NE	3.2	4	SE
20250905.06	0.36	NE	2.9	5	SE
20250905.09	0.41	N	2.6	5	E
20250905.12	0.49	NE	2.7	6	NE
20250905.15	0.47	NE	2.8	4	N
20250905.18	0.40	NE	3.0	2	N
20250905.21	0.37	NE	3.2	2	W
20250906.00	0.40	NE	3.0	3	W
20250906.03	0.42	NE	3.1	2	W
20250906.06	0.38	NE	3.2	1	SW
20250906.09	0.35	NE	3.2	2	NE
20250906.12	0.35	NE	2.8	5	NE

Wind condition in the Kuryik



Wave condition in the Kuryik



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250901.12	0.16	NW	1.8	1	E
20250901.15	0.43	W	3.0	1	E
20250901.18	0.61	W	3.6	4	W
20250901.21	0.72	W	3.9	4	NW
20250902.00	0.77	W	4.2	5	SW
20250902.03	0.80	W	4.3	5	S
20250902.06	0.84	W	4.2	5	SE
20250902.09	0.83	W	4.2	5	E
20250902.12	0.81	W	4.4	5	NW
20250902.15	0.81	NW	4.5	4	NW
20250902.18	0.80	NW	4.6	4	W
20250902.21	0.77	NW	4.7	3	W
20250903.00	0.74	NW	4.7	1	SW
20250903.03	0.70	N	4.7	1	E
20250903.06	0.66	N	4.6	5	S
20250903.09	0.63	N	4.3	1	E
20250903.12	0.60	N	4.2	3	W
20250903.15	0.60	NE	3.8	4	NW
20250903.18	0.63	E	3.5	5	NW
20250903.21	0.61	SE	3.4	5	N
20250904.00	0.54	E	3.5	4	SW
20250904.03	0.48	E	3.6	5	E
20250904.06	0.48	NE	3.4	6	SE
20250904.09	0.52	N	3.3	5	S
20250904.12	0.49	N	3.3	4	W
20250904.15	0.47	N	3.2	4	N
20250904.18	0.47	N	2.9	2	NE
20250904.21	0.48	N	2.7	3	NE
20250905.00	0.49	N	2.7	4	E
20250905.03	0.50	N	2.7	4	S
20250905.06	0.49	N	2.7	4	SE
20250905.09	0.49	N	2.7	4	NE
20250905.12	0.46	N	2.7	6	N
20250905.15	0.43	NE	2.7	5	W
20250905.18	0.39	NE	2.9	4	W
20250905.21	0.36	NE	3.1	2	N
20250906.00	0.34	NE	3.1	1	N
20250906.03	0.33	N	3.2	1	N
20250906.06	0.34	N	3.2	1	NW
20250906.09	0.36	N	3.1	3	E
20250906.12	0.49	N	2.9	7	E

**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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