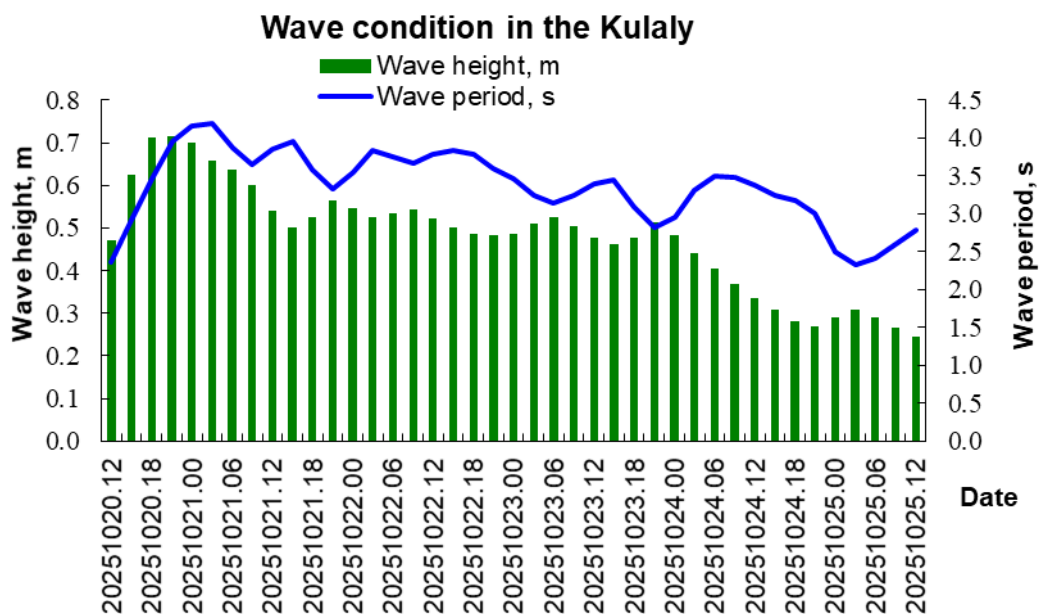
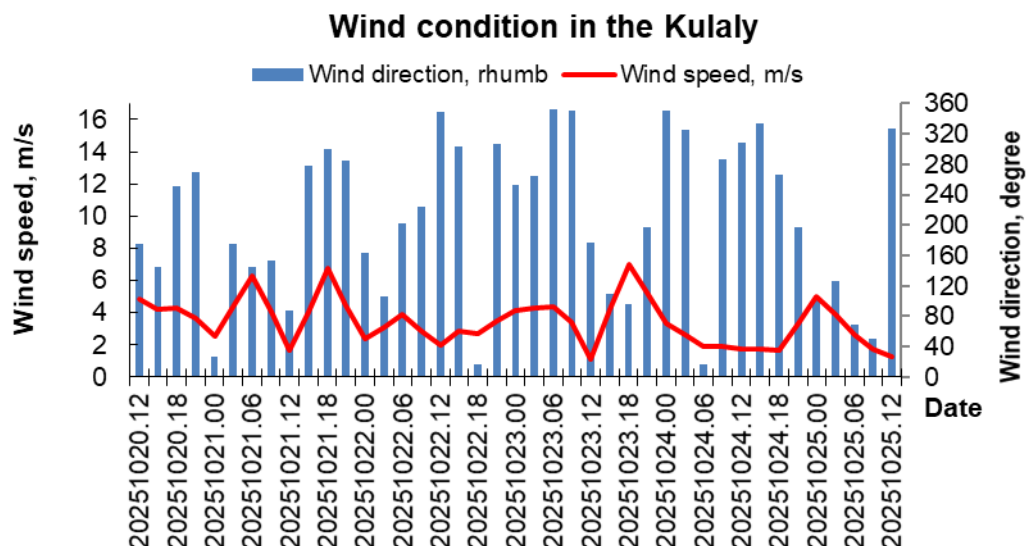




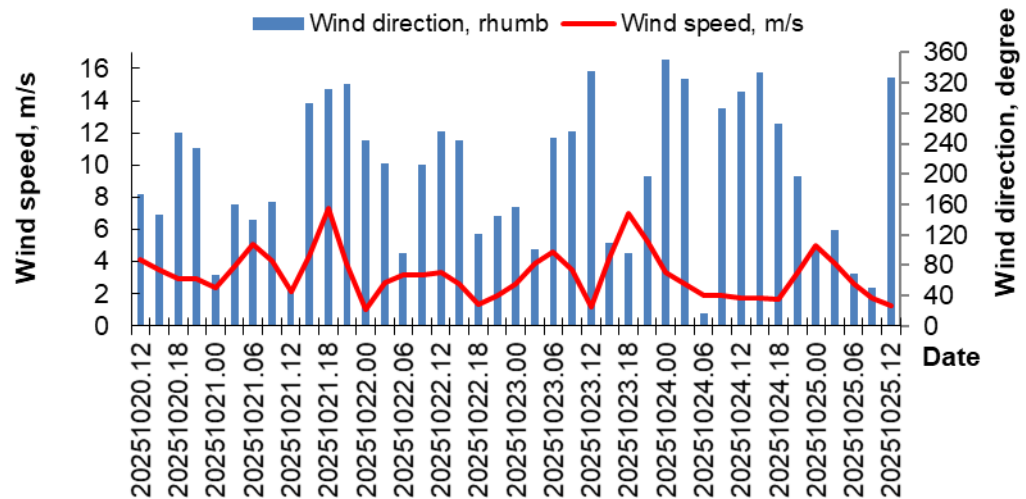
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period October 20 – 25, 2025.**

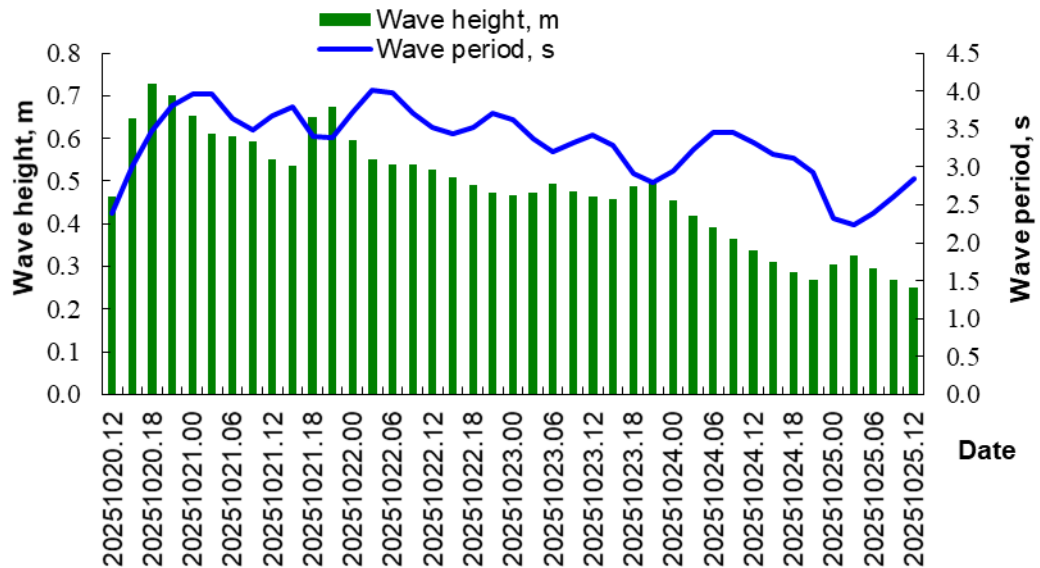


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251020.12	0.47	N	2.4	5	S
20251020.15	0.63	N	2.9	4	SE
20251020.18	0.71	N	3.5	4	W
20251020.21	0.72	N	4.0	4	W
20251021.00	0.70	N	4.2	3	NE
20251021.03	0.66	N	4.2	4	S
20251021.06	0.64	NW	3.9	6	SE
20251021.09	0.60	NW	3.7	4	SE
20251021.12	0.54	NW	3.9	2	E
20251021.15	0.50	NW	3.9	4	W
20251021.18	0.53	N	3.6	7	NW
20251021.21	0.57	E	3.3	4	W
20251022.00	0.55	E	3.5	2	S
20251022.03	0.53	E	3.8	3	E
20251022.06	0.53	E	3.8	4	S
20251022.09	0.54	E	3.7	3	SW
20251022.12	0.52	E	3.8	2	N
20251022.15	0.50	E	3.8	3	NW
20251022.18	0.49	E	3.8	3	N
20251022.21	0.48	SE	3.6	3	NW
20251023.00	0.49	SE	3.5	4	W
20251023.03	0.51	SE	3.2	4	W
20251023.06	0.52	S	3.2	4	N
20251023.09	0.50	S	3.2	3	N
20251023.12	0.48	S	3.4	1	S
20251023.15	0.46	S	3.5	4	E
20251023.18	0.48	S	3.1	7	E
20251023.21	0.51	SW	2.8	5	S
20251024.00	0.48	SW	3.0	3	N
20251024.03	0.44	SW	3.3	3	NW
20251024.06	0.41	SW	3.5	2	N
20251024.09	0.37	SW	3.5	2	W
20251024.12	0.34	SW	3.4	2	NW
20251024.15	0.31	SW	3.2	2	NW
20251024.18	0.28	SW	3.2	2	W
20251024.21	0.27	SW	3.0	3	S
20251025.00	0.29	SW	2.5	5	E
20251025.03	0.31	SW	2.3	4	SE
20251025.06	0.29	SW	2.4	3	E
20251025.09	0.27	SW	2.6	2	NE
20251025.12	0.24	SW	2.8	1	NW

Wind condition in the Fort-Shevchenko

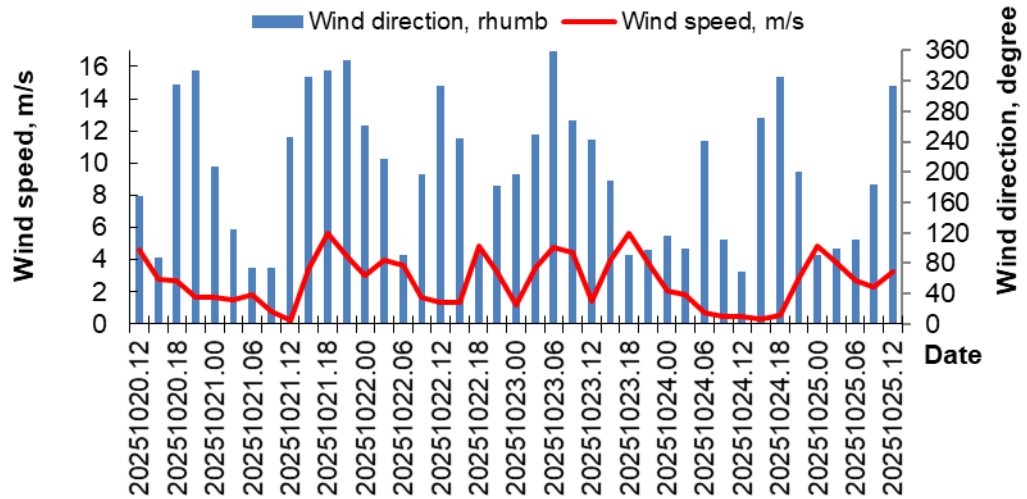


Wave condition in the Fort-Shevchenko

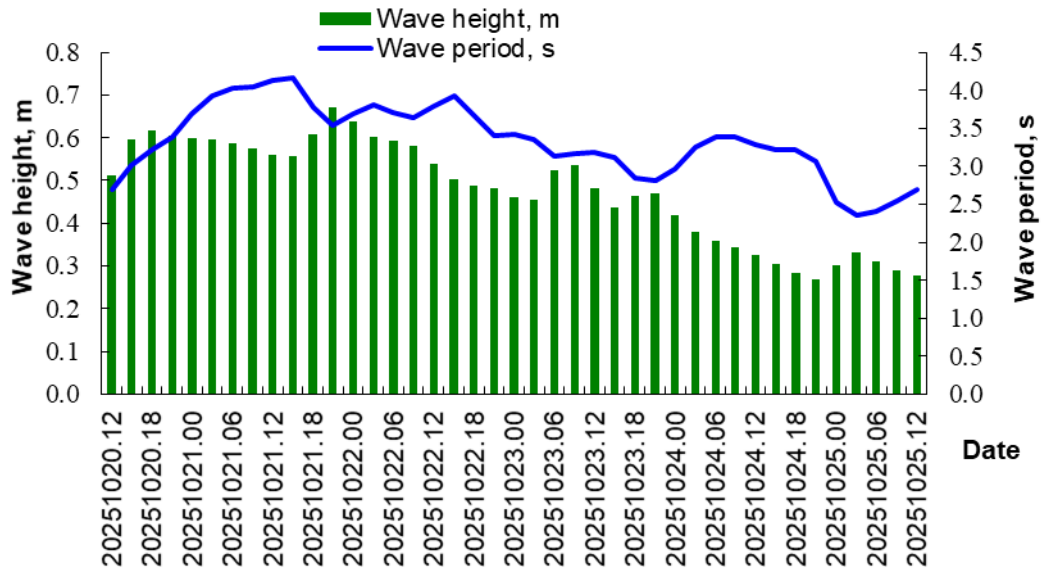


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251020.12	0.46	N	2.4	4	S
20251020.15	0.65	N	3.0	3	SE
20251020.18	0.73	N	3.5	3	W
20251020.21	0.70	N	3.8	3	SW
20251021.00	0.65	N	4.0	2	NE
20251021.03	0.61	NW	4.0	4	S
20251021.06	0.61	NW	3.6	5	SE
20251021.09	0.59	NW	3.5	4	S
20251021.12	0.55	NW	3.7	2	NE
20251021.15	0.54	NW	3.8	4	NW
20251021.18	0.65	E	3.4	7	NW
20251021.21	0.67	SE	3.4	4	NW
20251022.00	0.60	E	3.7	1	SW
20251022.03	0.55	E	4.0	3	SW
20251022.06	0.54	E	4.0	3	E
20251022.09	0.54	E	3.7	3	SW
20251022.12	0.53	E	3.5	3	W
20251022.15	0.51	E	3.4	3	SW
20251022.18	0.49	E	3.5	1	SE
20251022.21	0.47	SE	3.7	2	SE
20251023.00	0.47	SE	3.6	3	SE
20251023.03	0.47	SE	3.4	4	E
20251023.06	0.49	S	3.2	5	W
20251023.09	0.48	S	3.3	4	W
20251023.12	0.46	S	3.4	1	NW
20251023.15	0.46	S	3.3	4	E
20251023.18	0.49	SW	2.9	7	E
20251023.21	0.50	SW	2.8	5	S
20251024.00	0.45	SW	2.9	3	N
20251024.03	0.42	SW	3.2	3	NW
20251024.06	0.39	SW	3.5	2	N
20251024.09	0.36	SW	3.5	2	W
20251024.12	0.34	SW	3.3	2	NW
20251024.15	0.31	SW	3.2	2	NW
20251024.18	0.29	SW	3.1	2	W
20251024.21	0.27	SW	2.9	3	S
20251025.00	0.31	SW	2.3	5	E
20251025.03	0.33	W	2.2	4	SE
20251025.06	0.30	W	2.4	3	E
20251025.09	0.27	SW	2.6	2	NE
20251025.12	0.25	SW	2.8	1	NW

Wind condition in the Aktau

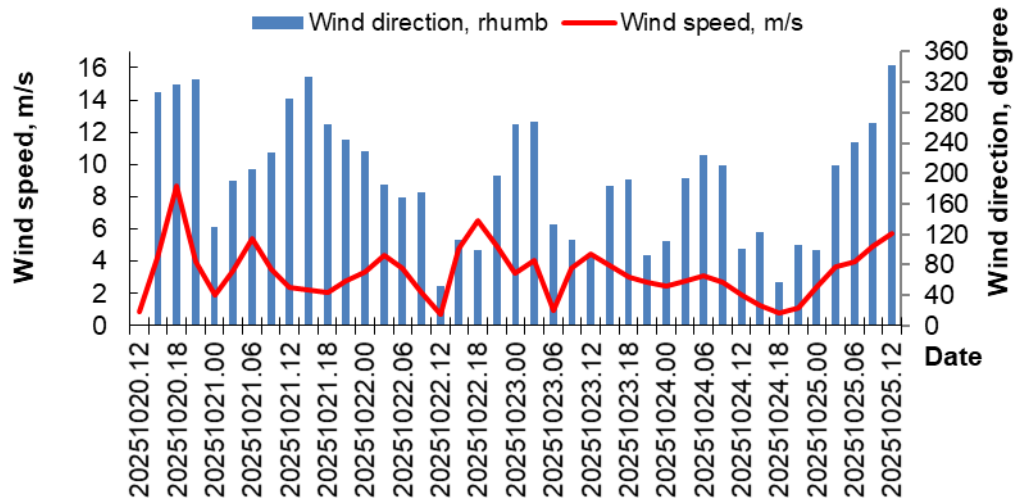


Wave condition in the Aktau

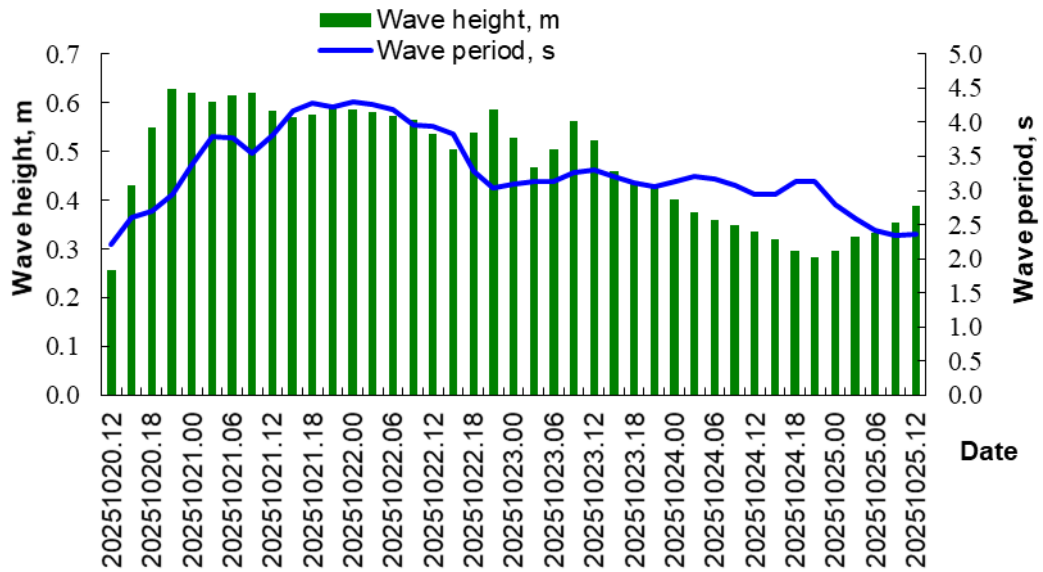


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20251020.12	0.51	N	2.7	5	S
20251020.15	0.60	N	3.0	3	E
20251020.18	0.62	N	3.2	3	NW
20251020.21	0.61	N	3.4	2	NW
20251021.00	0.60	N	3.7	2	SW
20251021.03	0.60	N	3.9	1	SE
20251021.06	0.59	NW	4.0	2	E
20251021.09	0.57	NW	4.1	1	E
20251021.12	0.56	NW	4.1	0	SW
20251021.15	0.56	N	4.2	3	NW
20251021.18	0.61	E	3.8	6	NW
20251021.21	0.67	SE	3.5	4	N
20251022.00	0.64	E	3.7	3	W
20251022.03	0.60	E	3.8	4	SW
20251022.06	0.59	E	3.7	4	E
20251022.09	0.58	E	3.6	2	S
20251022.12	0.54	E	3.8	1	NW
20251022.15	0.50	E	3.9	1	SW
20251022.18	0.49	E	3.7	5	E
20251022.21	0.48	SE	3.4	3	S
20251023.00	0.46	SE	3.4	1	S
20251023.03	0.45	S	3.4	3	W
20251023.06	0.52	SW	3.1	5	N
20251023.09	0.54	SW	3.2	4	W
20251023.12	0.48	SW	3.2	1	SW
20251023.15	0.44	SW	3.1	4	S
20251023.18	0.46	SW	2.8	6	E
20251023.21	0.47	W	2.8	4	E
20251024.00	0.42	W	3.0	2	SE
20251024.03	0.38	W	3.3	2	E
20251024.06	0.36	W	3.4	1	SW
20251024.09	0.34	SW	3.4	0	E
20251024.12	0.32	SW	3.3	0	E
20251024.15	0.30	SW	3.2	0	W
20251024.18	0.28	SW	3.2	1	NW
20251024.21	0.27	SW	3.1	3	S
20251025.00	0.30	SW	2.5	5	E
20251025.03	0.33	W	2.4	4	E
20251025.06	0.31	W	2.4	3	E
20251025.09	0.29	W	2.5	2	S
20251025.12	0.28	W	2.7	3	NW

Wind condition in the Peschanyi

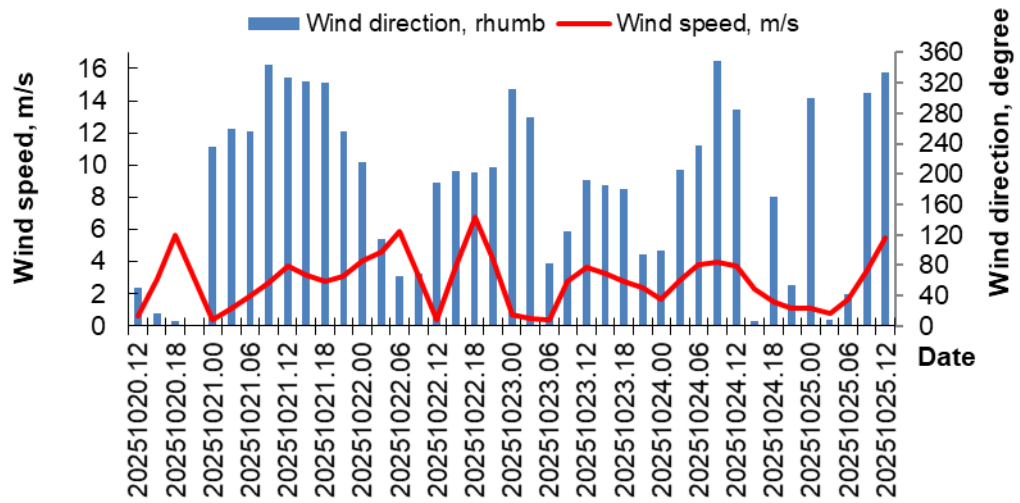


Wave condition in the Peschanyi

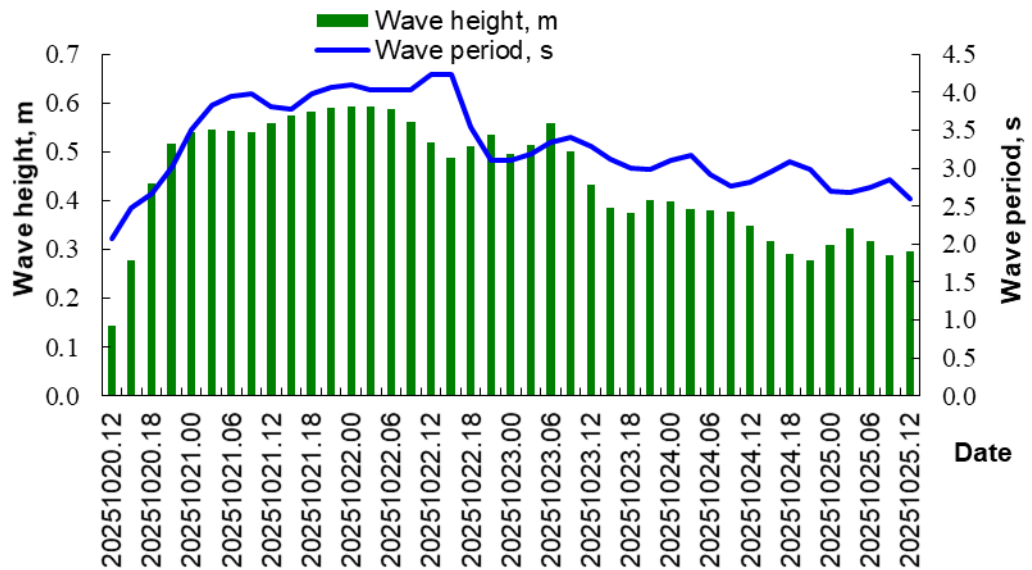


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251020.12	0.26	N	2.2	1	N
20251020.15	0.43	N	2.6	4	NW
20251020.18	0.55	NE	2.7	9	NW
20251020.21	0.63	E	2.9	4	NW
20251021.00	0.62	E	3.4	2	SE
20251021.03	0.60	E	3.8	3	S
20251021.06	0.61	S	3.8	5	SW
20251021.09	0.62	SW	3.5	3	SW
20251021.12	0.58	S	3.8	2	NW
20251021.15	0.57	E	4.2	2	NW
20251021.18	0.58	E	4.3	2	W
20251021.21	0.59	E	4.2	3	SW
20251022.00	0.59	E	4.3	3	SW
20251022.03	0.58	E	4.3	4	S
20251022.06	0.57	E	4.2	4	S
20251022.09	0.57	E	4.0	2	S
20251022.12	0.54	E	3.9	1	NE
20251022.15	0.51	E	3.8	5	SE
20251022.18	0.54	NE	3.3	7	E
20251022.21	0.59	W	3.0	5	S
20251023.00	0.53	SW	3.1	3	W
20251023.03	0.47	SW	3.1	4	W
20251023.06	0.51	SW	3.1	1	SE
20251023.09	0.56	SW	3.3	4	SE
20251023.12	0.52	SW	3.3	4	E
20251023.15	0.46	SW	3.2	4	S
20251023.18	0.44	W	3.1	3	S
20251023.21	0.43	W	3.1	3	E
20251024.00	0.40	W	3.1	2	E
20251024.03	0.37	W	3.2	3	S
20251024.06	0.36	W	3.2	3	SW
20251024.09	0.35	W	3.1	3	SW
20251024.12	0.34	W	2.9	2	E
20251024.15	0.32	W	2.9	1	SE
20251024.18	0.30	W	3.1	1	NE
20251024.21	0.28	SW	3.1	1	E
20251025.00	0.30	SW	2.8	2	E
20251025.03	0.32	SW	2.6	4	SW
20251025.06	0.33	SW	2.4	4	SW
20251025.09	0.35	SW	2.3	5	W
20251025.12	0.39	SW	2.4	6	N

Wind condition in the Fetisovo

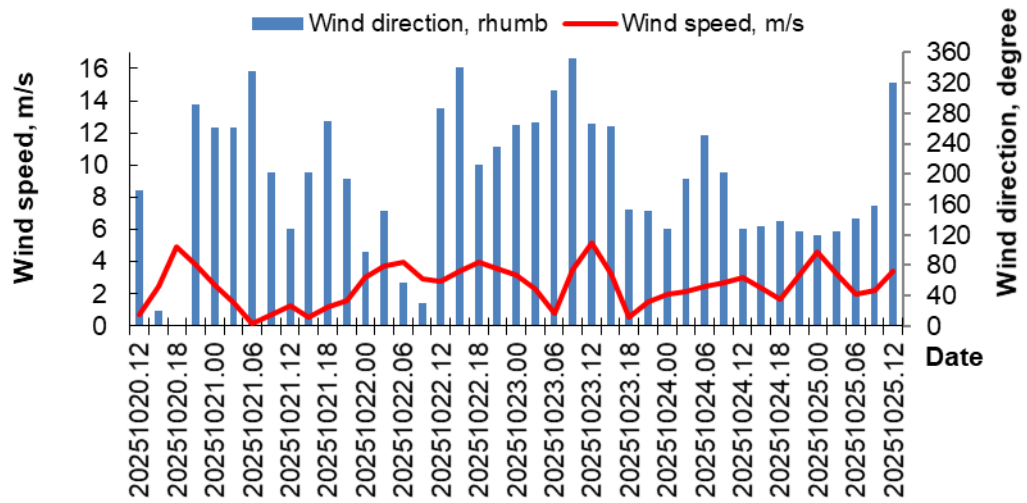


Wave condition in the Fetisovo

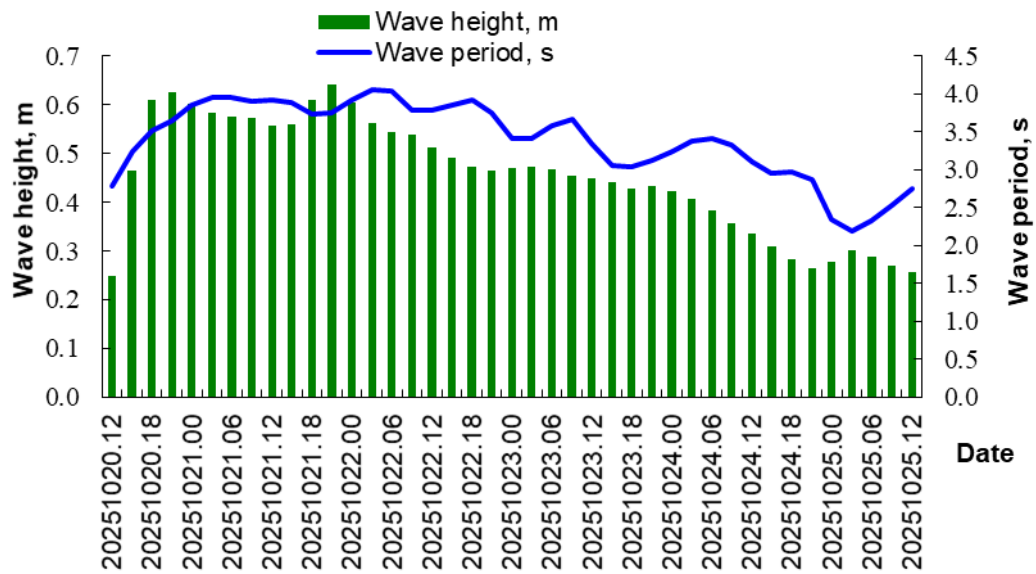


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251020.12	0.14	N	2.1	1	NE
20251020.15	0.28	N	2.5	3	N
20251020.18	0.43	N	2.7	6	N
20251020.21	0.52	NE	3.0	3	N
20251021.00	0.54	NW	3.5	0	SW
20251021.03	0.55	W	3.8	1	W
20251021.06	0.54	NW	3.9	2	W
20251021.09	0.54	N	4.0	3	N
20251021.12	0.56	NE	3.8	4	NW
20251021.15	0.57	E	3.8	3	NW
20251021.18	0.58	NE	4.0	3	NW
20251021.21	0.59	NE	4.1	3	W
20251022.00	0.59	NE	4.1	4	SW
20251022.03	0.59	NE	4.0	5	SE
20251022.06	0.59	NE	4.0	6	NE
20251022.09	0.56	NE	4.0	3	E
20251022.12	0.52	NE	4.2	0	S
20251022.15	0.49	NE	4.2	4	SW
20251022.18	0.51	E	3.5	7	S
20251022.21	0.53	SW	3.1	4	SW
20251023.00	0.50	W	3.1	1	NW
20251023.03	0.51	NW	3.2	0	W
20251023.06	0.56	W	3.3	0	E
20251023.09	0.50	W	3.4	3	SE
20251023.12	0.43	W	3.3	4	S
20251023.15	0.39	W	3.1	3	S
20251023.18	0.37	W	3.0	3	S
20251023.21	0.40	W	3.0	2	E
20251024.00	0.40	W	3.1	2	E
20251024.03	0.38	W	3.2	3	SW
20251024.06	0.38	W	2.9	4	SW
20251024.09	0.38	W	2.8	4	N
20251024.12	0.35	W	2.8	4	W
20251024.15	0.32	W	2.9	2	N
20251024.18	0.29	W	3.1	2	S
20251024.21	0.28	W	3.0	1	NE
20251025.00	0.31	W	2.7	1	NW
20251025.03	0.34	W	2.7	1	N
20251025.06	0.32	W	2.7	2	NE
20251025.09	0.29	W	2.8	3	NW
20251025.12	0.29	SW	2.6	5	NW

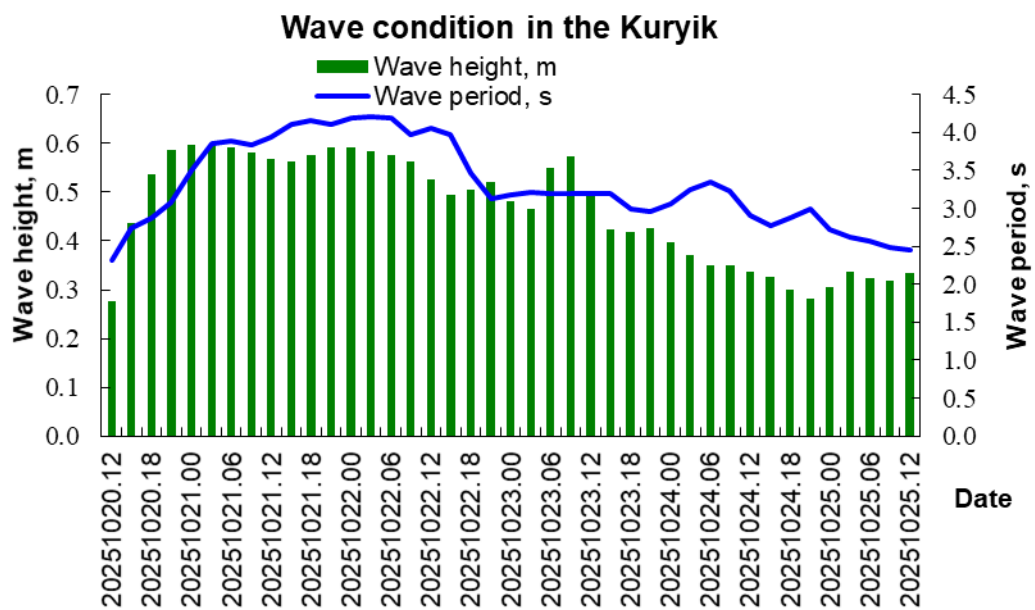
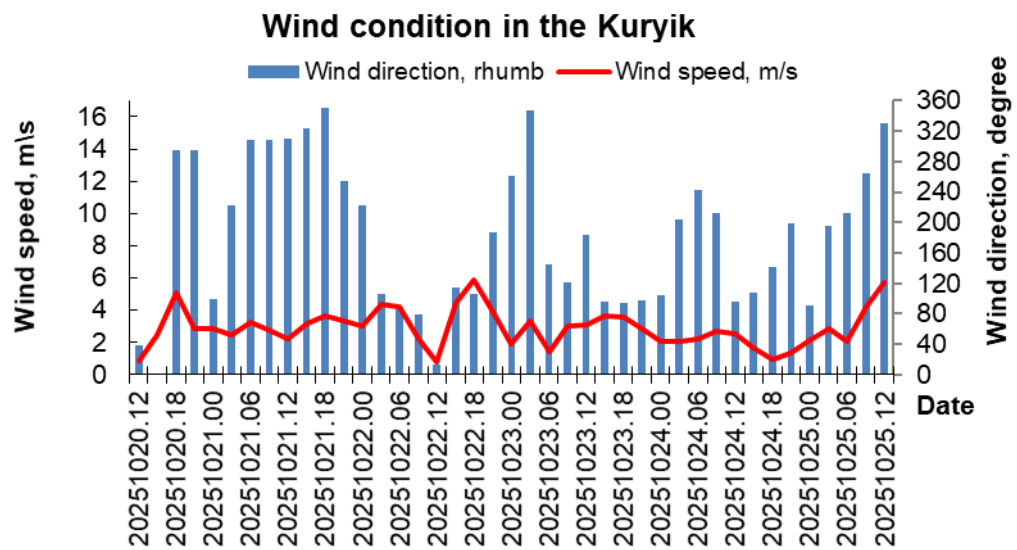
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251020.12	0.25	N	2.8	1	S
20251020.15	0.47	N	3.2	2	N
20251020.18	0.61	N	3.5	5	N
20251020.21	0.63	N	3.6	4	W
20251021.00	0.60	N	3.8	3	W
20251021.03	0.58	NW	4.0	1	W
20251021.06	0.58	NW	4.0	0	NW
20251021.09	0.57	NW	3.9	1	S
20251021.12	0.56	NW	3.9	1	SE
20251021.15	0.56	N	3.9	1	SW
20251021.18	0.61	E	3.7	1	W
20251021.21	0.64	E	3.8	2	S
20251022.00	0.60	E	3.9	3	E
20251022.03	0.56	E	4.1	4	SE
20251022.06	0.54	E	4.0	4	NE
20251022.09	0.54	E	3.8	3	NE
20251022.12	0.51	E	3.8	3	W
20251022.15	0.49	E	3.9	3	N
20251022.18	0.47	E	3.9	4	SW
20251022.21	0.46	SE	3.8	4	SW
20251023.00	0.47	SE	3.4	3	W
20251023.03	0.47	SE	3.4	2	W
20251023.06	0.47	S	3.6	1	NW
20251023.09	0.46	S	3.7	3	N
20251023.12	0.45	S	3.3	5	W
20251023.15	0.44	S	3.1	3	W
20251023.18	0.43	SW	3.0	1	SE
20251023.21	0.43	SW	3.1	1	SE
20251024.00	0.42	SW	3.2	2	SE
20251024.03	0.41	SW	3.4	2	S
20251024.06	0.38	SW	3.4	2	W
20251024.09	0.36	SW	3.3	3	S
20251024.12	0.33	SW	3.1	3	SE
20251024.15	0.31	SW	3.0	2	SE
20251024.18	0.28	SW	3.0	2	SE
20251024.21	0.26	SW	2.9	3	SE
20251025.00	0.28	SW	2.3	5	SE
20251025.03	0.30	W	2.2	3	SE
20251025.06	0.29	W	2.3	2	SE
20251025.09	0.27	W	2.5	2	S
20251025.12	0.26	SW	2.8	3	NW



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251020.12	0.28	N	2.3	1	NE
20251020.15	0.44	N	2.7	2	N
20251020.18	0.54	N	2.9	5	NW
20251020.21	0.59	NE	3.1	3	NW
20251021.00	0.60	E	3.5	3	E
20251021.03	0.60	E	3.9	2	SW
20251021.06	0.59	SE	3.9	3	NW
20251021.09	0.58	SE	3.8	3	NW
20251021.12	0.57	NE	3.9	2	NW
20251021.15	0.56	NE	4.1	3	NW
20251021.18	0.58	NE	4.2	4	N
20251021.21	0.59	E	4.1	3	W
20251022.00	0.59	E	4.2	3	SW
20251022.03	0.58	E	4.2	4	E
20251022.06	0.57	E	4.2	4	E
20251022.09	0.56	E	4.0	2	E
20251022.12	0.52	E	4.1	1	N
20251022.15	0.50	E	4.0	4	SE
20251022.18	0.50	E	3.5	6	E
20251022.21	0.52	W	3.1	4	S
20251023.00	0.48	SW	3.2	2	W
20251023.03	0.46	SW	3.2	3	N
20251023.06	0.55	SW	3.2	1	SE
20251023.09	0.57	SW	3.2	3	SE
20251023.12	0.49	SW	3.2	3	S
20251023.15	0.42	SW	3.2	4	E
20251023.18	0.42	W	3.0	4	E
20251023.21	0.43	W	3.0	3	E
20251024.00	0.40	W	3.1	2	E
20251024.03	0.37	W	3.2	2	SW
20251024.06	0.35	W	3.3	2	SW
20251024.09	0.35	W	3.2	3	SW
20251024.12	0.34	W	2.9	3	E
20251024.15	0.33	W	2.8	2	E
20251024.18	0.30	W	2.9	1	SE
20251024.21	0.28	W	3.0	1	S
20251025.00	0.31	SW	2.7	2	E
20251025.03	0.34	SW	2.6	3	S
20251025.06	0.32	SW	2.6	2	SW
20251025.09	0.32	SW	2.5	4	W
20251025.12	0.33	SW	2.4	6	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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