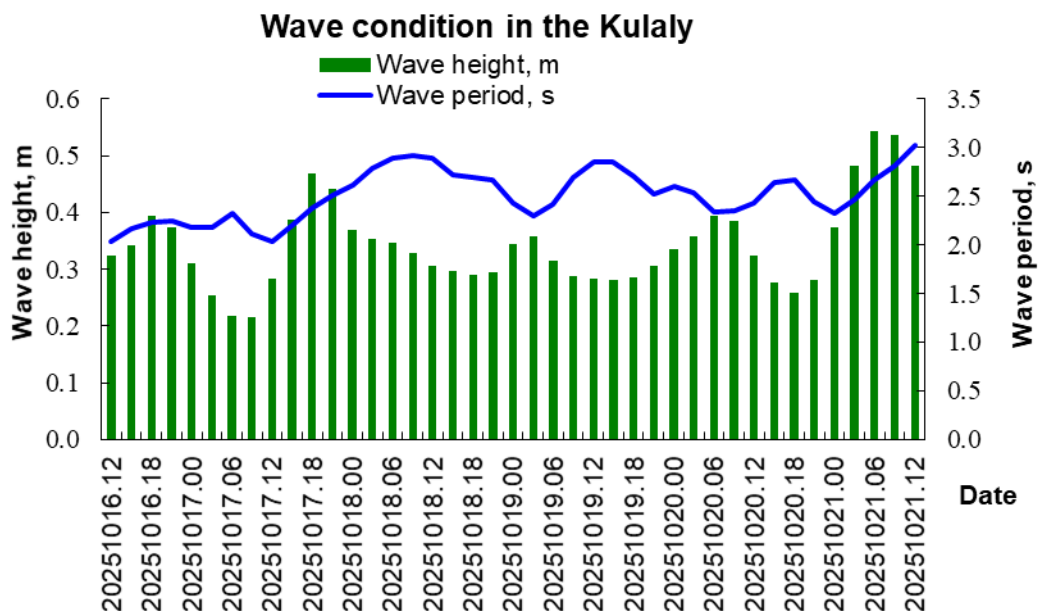
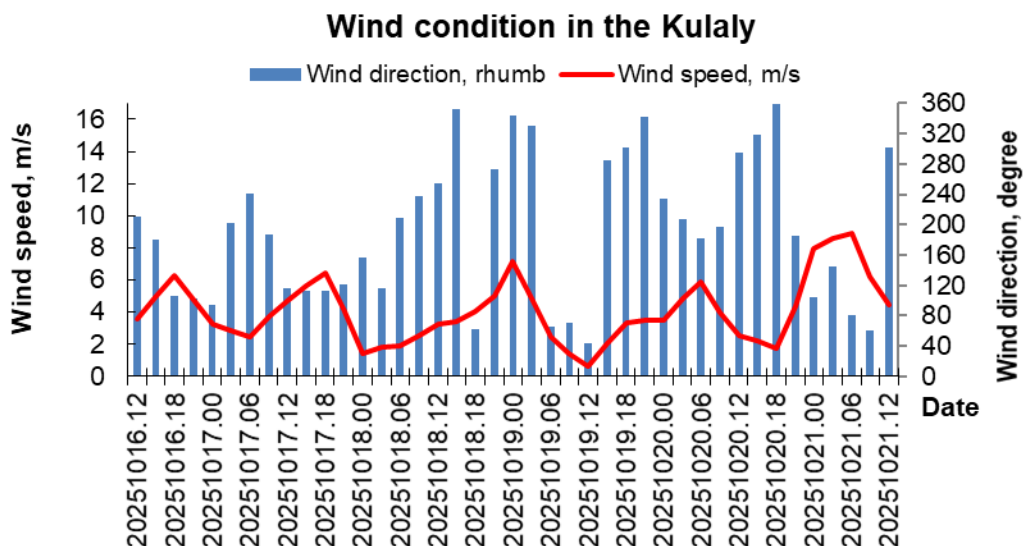




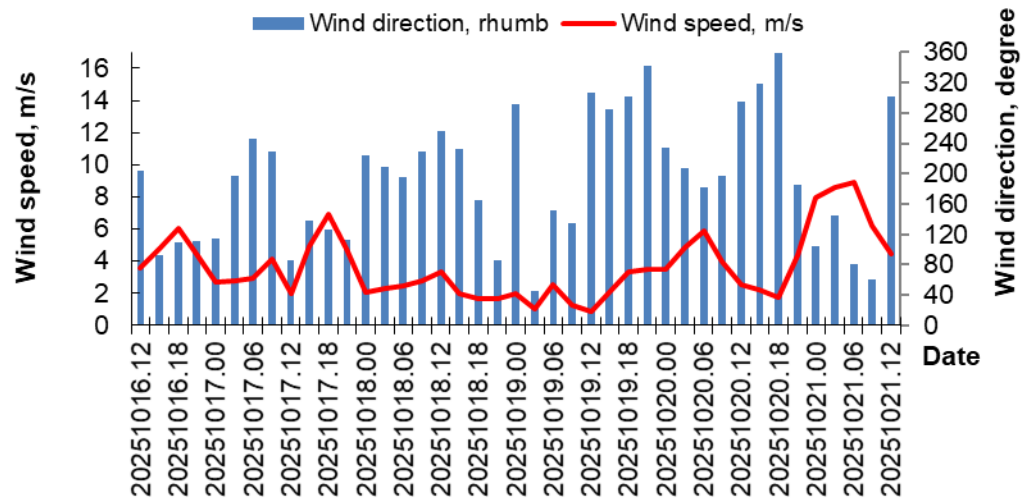
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 16 – 21, 2025.**

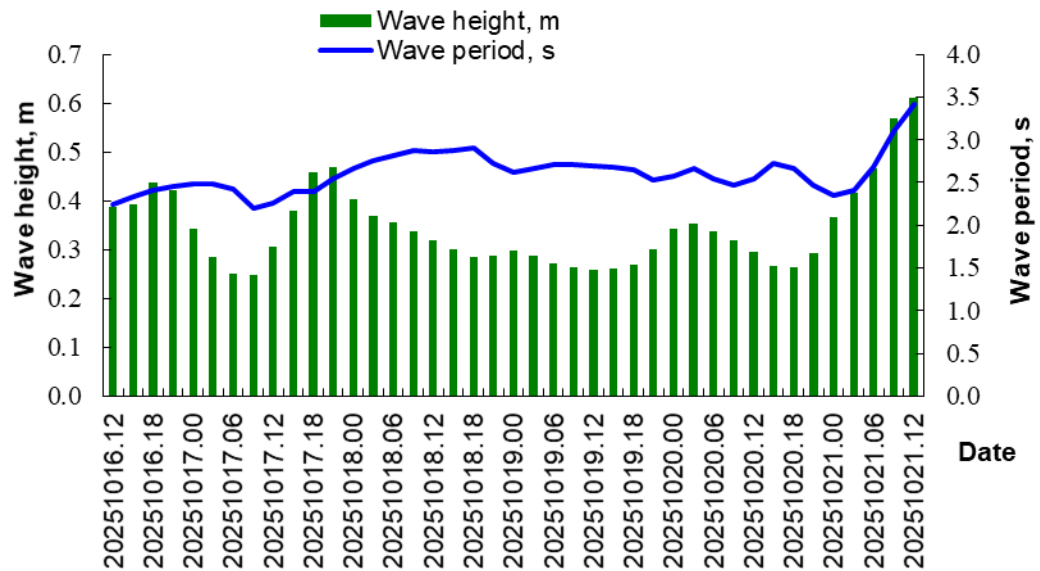


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251016.12	0.32	SW	2.0	4	SW
20251016.15	0.34	SW	2.2	5	S
20251016.18	0.39	W	2.2	6	E
20251016.21	0.37	W	2.2	5	E
20251017.00	0.31	W	2.2	3	E
20251017.03	0.25	W	2.2	3	S
20251017.06	0.22	W	2.3	2	SW
20251017.09	0.22	W	2.1	4	S
20251017.12	0.28	W	2.0	5	SE
20251017.15	0.39	W	2.2	6	E
20251017.18	0.47	W	2.4	6	SE
20251017.21	0.44	W	2.5	4	SE
20251018.00	0.37	W	2.6	1	SE
20251018.03	0.35	W	2.8	2	SE
20251018.06	0.35	SW	2.9	2	SW
20251018.09	0.33	SW	2.9	3	SW
20251018.12	0.31	SW	2.9	3	W
20251018.15	0.30	SW	2.7	3	N
20251018.18	0.29	SW	2.7	4	NE
20251018.21	0.29	SW	2.7	5	W
20251019.00	0.35	SW	2.4	7	N
20251019.03	0.36	S	2.3	5	NW
20251019.06	0.31	SW	2.4	2	NE
20251019.09	0.29	SW	2.7	1	E
20251019.12	0.28	SW	2.9	1	NE
20251019.15	0.28	SW	2.8	2	W
20251019.18	0.28	SW	2.7	3	NW
20251019.21	0.31	SW	2.5	3	N
20251020.00	0.33	SW	2.6	4	SW
20251020.03	0.36	SW	2.5	5	SW
20251020.06	0.39	SW	2.3	6	S
20251020.09	0.39	SW	2.3	4	S
20251020.12	0.32	SW	2.4	3	NW
20251020.15	0.28	SW	2.6	2	NW
20251020.18	0.26	SW	2.7	2	N
20251020.21	0.28	S	2.4	4	S
20251021.00	0.37	SW	2.3	8	E
20251021.03	0.48	W	2.5	9	SE
20251021.06	0.54	W	2.7	9	E
20251021.09	0.54	W	2.8	6	NE
20251021.12	0.48	W	3.0	4	NW

Wind condition in the Fort-Shevchenko

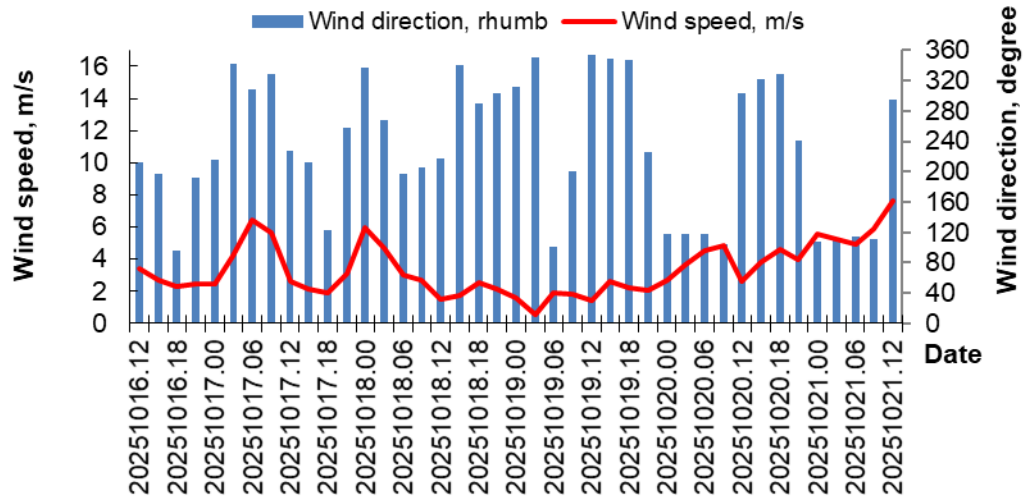


Wave condition in the Fort-Shevchenko

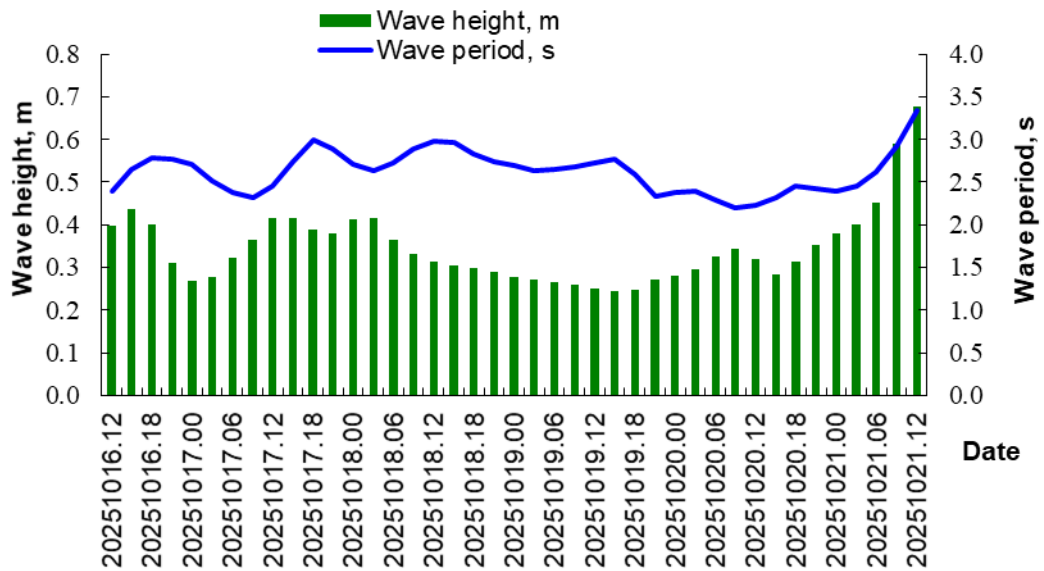


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251016.12	0.39	SW	2.2	4	SW
20251016.15	0.39	SW	2.3	5	E
20251016.18	0.44	W	2.4	6	E
20251016.21	0.42	W	2.5	4	E
20251017.00	0.34	W	2.5	3	SE
20251017.03	0.28	W	2.5	3	S
20251017.06	0.25	W	2.4	3	SW
20251017.09	0.25	W	2.2	4	SW
20251017.12	0.30	SW	2.3	2	E
20251017.15	0.38	SW	2.4	5	SE
20251017.18	0.46	W	2.4	7	SE
20251017.21	0.47	W	2.5	5	SE
20251018.00	0.40	W	2.7	2	SW
20251018.03	0.37	W	2.8	2	SW
20251018.06	0.35	SW	2.8	2	S
20251018.09	0.34	SW	2.9	3	SW
20251018.12	0.32	SW	2.9	3	W
20251018.15	0.30	SW	2.9	2	SW
20251018.18	0.29	SW	2.9	2	S
20251018.21	0.29	SW	2.7	2	E
20251019.00	0.30	SW	2.6	2	W
20251019.03	0.29	SW	2.7	1	NE
20251019.06	0.27	SW	2.7	3	SE
20251019.09	0.26	SW	2.7	1	SE
20251019.12	0.26	SW	2.7	1	NW
20251019.15	0.26	SW	2.7	2	W
20251019.18	0.27	SW	2.7	3	NW
20251019.21	0.30	SW	2.5	3	N
20251020.00	0.34	SW	2.6	4	SW
20251020.03	0.35	SW	2.7	5	SW
20251020.06	0.34	SW	2.5	6	S
20251020.09	0.32	SW	2.5	4	S
20251020.12	0.29	SW	2.5	3	NW
20251020.15	0.27	SW	2.7	2	NW
20251020.18	0.26	SW	2.7	2	N
20251020.21	0.29	S	2.5	4	S
20251021.00	0.37	SW	2.3	8	E
20251021.03	0.42	W	2.4	9	SE
20251021.06	0.47	W	2.7	9	E
20251021.09	0.57	W	3.1	6	NE
20251021.12	0.61	SW	3.4	4	NW

Wind condition in the Aktau

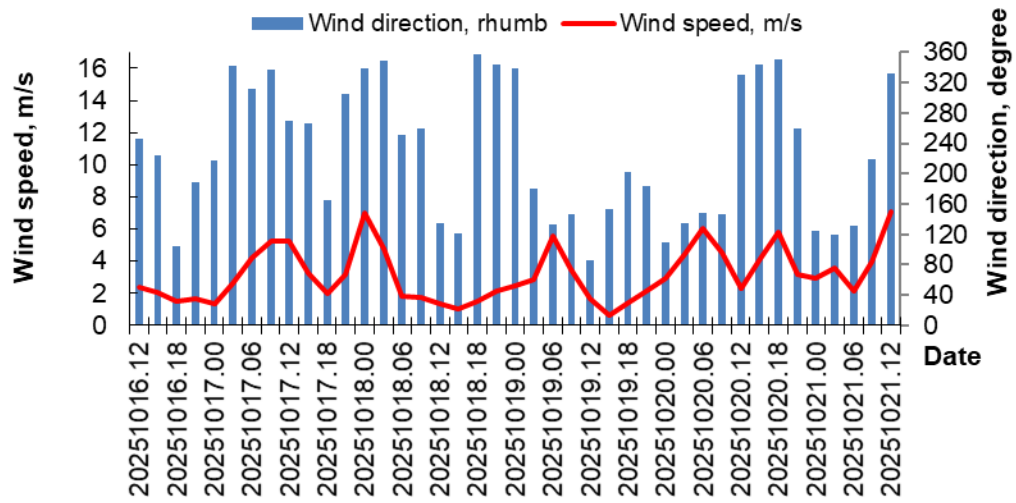


Wave condition in the Aktau

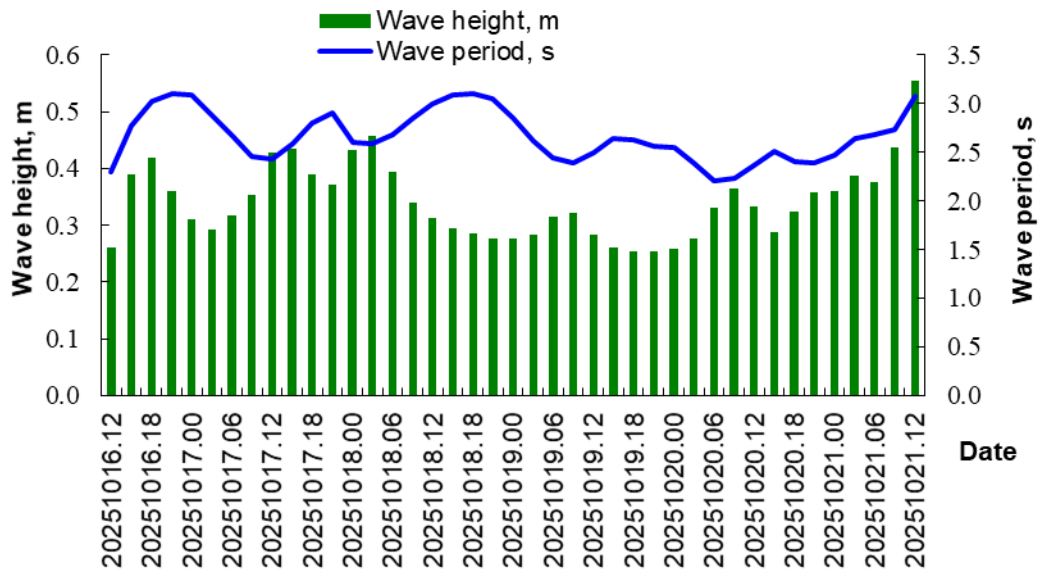


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20251016.12	0.40	SW	2.4	3	SW
20251016.15	0.44	SW	2.6	3	S
20251016.18	0.40	SW	2.8	2	E
20251016.21	0.31	SW	2.8	2	S
20251017.00	0.27	SW	2.7	2	SW
20251017.03	0.28	SW	2.5	4	N
20251017.06	0.32	SW	2.4	6	NW
20251017.09	0.37	S	2.3	6	NW
20251017.12	0.41	S	2.5	3	SW
20251017.15	0.42	SW	2.7	2	SW
20251017.18	0.39	SW	3.0	2	SE
20251017.21	0.38	SW	2.9	3	W
20251018.00	0.41	S	2.7	6	NW
20251018.03	0.42	S	2.6	5	W
20251018.06	0.37	S	2.7	3	S
20251018.09	0.33	SW	2.9	3	SW
20251018.12	0.31	SW	3.0	2	SW
20251018.15	0.30	SW	3.0	2	N
20251018.18	0.30	SW	2.8	3	W
20251018.21	0.29	SW	2.7	2	NW
20251019.00	0.28	SW	2.7	2	NW
20251019.03	0.27	SW	2.6	1	N
20251019.06	0.27	SW	2.6	2	E
20251019.09	0.26	SW	2.7	2	S
20251019.12	0.25	SW	2.7	1	N
20251019.15	0.24	SW	2.8	3	N
20251019.18	0.25	SW	2.6	2	N
20251019.21	0.27	SW	2.3	2	SW
20251020.00	0.28	SW	2.4	3	SE
20251020.03	0.29	SW	2.4	4	SE
20251020.06	0.33	SW	2.3	4	SE
20251020.09	0.34	W	2.2	5	E
20251020.12	0.32	W	2.2	3	NW
20251020.15	0.28	SW	2.3	4	NW
20251020.18	0.31	SW	2.5	5	NW
20251020.21	0.35	S	2.4	4	SW
20251021.00	0.38	SW	2.4	6	E
20251021.03	0.40	W	2.5	5	E
20251021.06	0.45	W	2.6	5	SE
20251021.09	0.59	W	2.9	6	E
20251021.12	0.68	W	3.3	8	NW

Wind condition in the Peschanyi

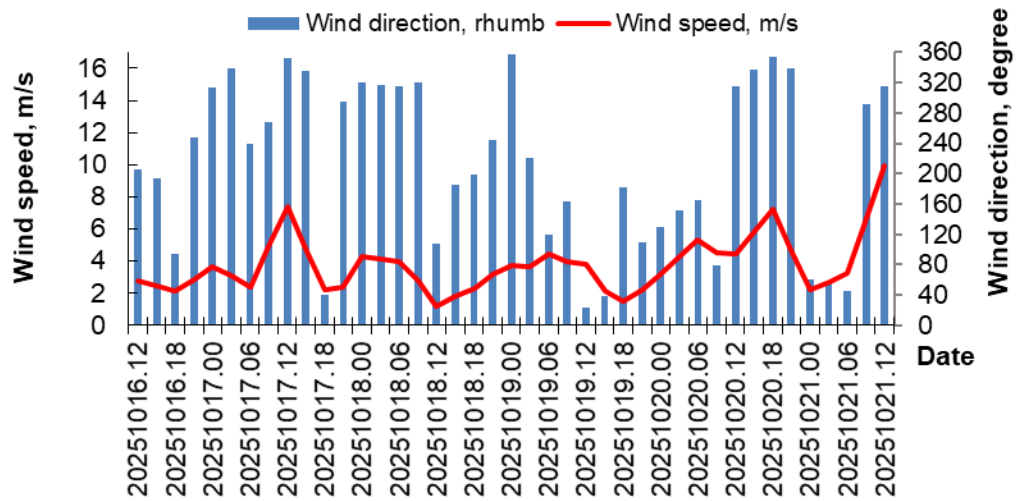


Wave condition in the Peschanyi

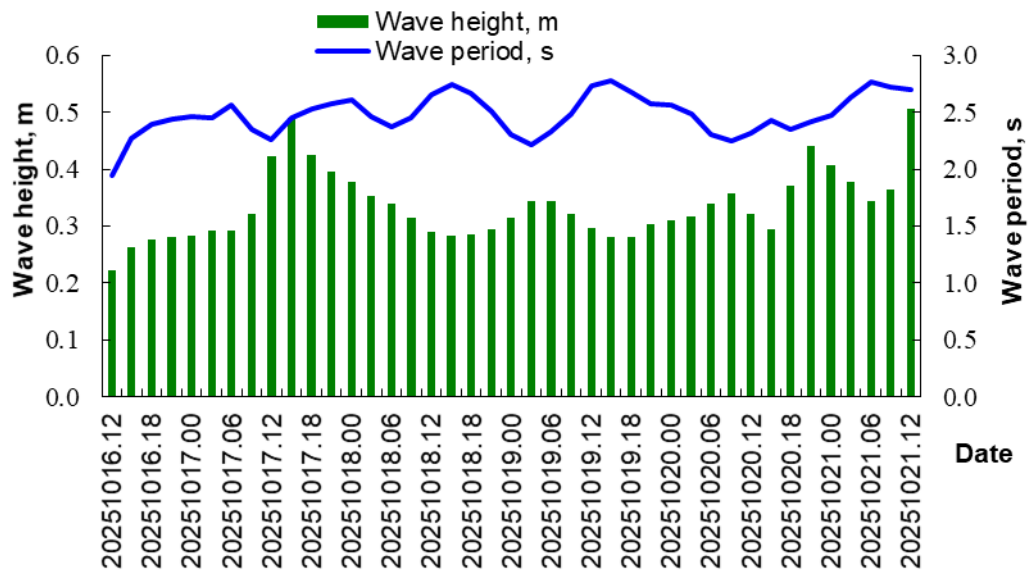


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251016.12	0.26	SW	2.3	2	SW
20251016.15	0.39	SW	2.8	2	SW
20251016.18	0.42	SW	3.0	2	E
20251016.21	0.36	SW	3.1	2	S
20251017.00	0.31	SW	3.1	1	SW
20251017.03	0.29	SW	2.9	3	N
20251017.06	0.32	SW	2.7	4	NW
20251017.09	0.35	S	2.5	5	NW
20251017.12	0.43	S	2.4	5	W
20251017.15	0.43	S	2.6	3	W
20251017.18	0.39	S	2.8	2	S
20251017.21	0.37	S	2.9	3	NW
20251018.00	0.43	S	2.6	7	N
20251018.03	0.46	S	2.6	5	N
20251018.06	0.39	S	2.7	2	W
20251018.09	0.34	SW	2.9	2	W
20251018.12	0.31	SW	3.0	1	SE
20251018.15	0.30	SW	3.1	1	SE
20251018.18	0.28	SW	3.1	1	N
20251018.21	0.28	SW	3.0	2	N
20251019.00	0.28	SW	2.9	2	N
20251019.03	0.28	SW	2.6	3	S
20251019.06	0.32	SW	2.4	6	SE
20251019.09	0.32	W	2.4	3	SE
20251019.12	0.28	W	2.5	2	E
20251019.15	0.26	SW	2.6	1	SE
20251019.18	0.25	SW	2.6	1	S
20251019.21	0.25	SW	2.6	2	S
20251020.00	0.26	SW	2.6	3	E
20251020.03	0.28	SW	2.4	4	SE
20251020.06	0.33	W	2.2	6	SE
20251020.09	0.36	W	2.2	4	SE
20251020.12	0.33	W	2.4	2	NW
20251020.15	0.29	W	2.5	4	N
20251020.18	0.32	SW	2.4	6	N
20251020.21	0.36	S	2.4	3	W
20251021.00	0.36	SW	2.5	3	SE
20251021.03	0.39	SW	2.6	4	SE
20251021.06	0.37	W	2.7	2	SE
20251021.09	0.44	W	2.7	4	SW
20251021.12	0.55	SW	3.1	7	NW

Wind condition in the Fetisovo

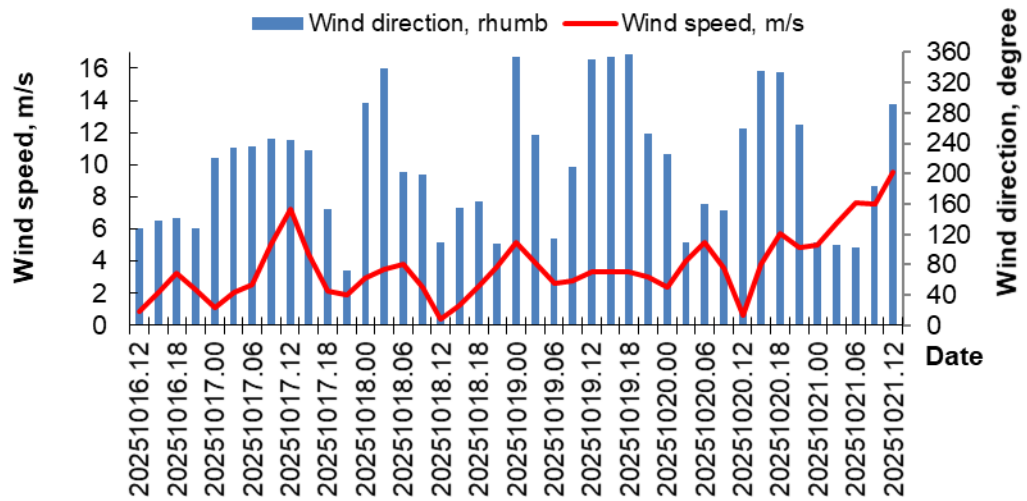


Wave condition in the Fetisovo

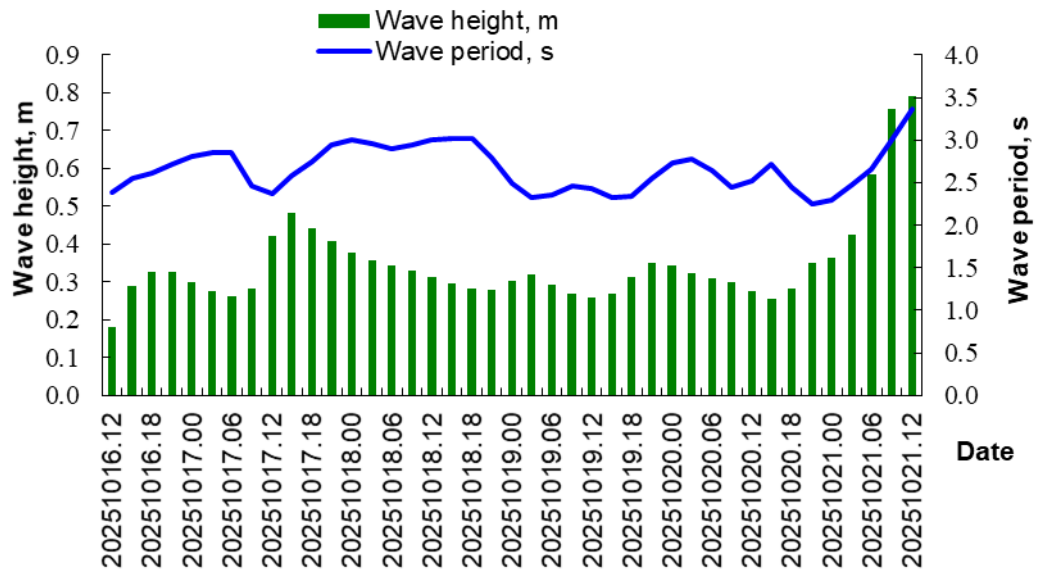


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251016.12	0.22	SW	1.9	3	SW
20251016.15	0.26	SW	2.3	2	S
20251016.18	0.28	SW	2.4	2	E
20251016.21	0.28	SW	2.4	3	W
20251017.00	0.28	SW	2.5	4	NW
20251017.03	0.29	SW	2.5	3	N
20251017.06	0.29	SW	2.6	2	SW
20251017.09	0.32	SW	2.3	5	W
20251017.12	0.42	S	2.3	7	N
20251017.15	0.49	S	2.5	5	NW
20251017.18	0.43	S	2.5	2	NE
20251017.21	0.40	SW	2.6	2	NW
20251018.00	0.38	SW	2.6	4	NW
20251018.03	0.35	SW	2.5	4	NW
20251018.06	0.34	S	2.4	4	NW
20251018.09	0.31	S	2.5	3	NW
20251018.12	0.29	SW	2.7	1	E
20251018.15	0.28	SW	2.7	2	S
20251018.18	0.28	SW	2.7	2	S
20251018.21	0.29	SW	2.5	3	SW
20251019.00	0.31	SW	2.3	4	N
20251019.03	0.34	SW	2.2	4	SW
20251019.06	0.34	SW	2.3	4	SE
20251019.09	0.32	SW	2.5	4	S
20251019.12	0.30	SW	2.7	4	NE
20251019.15	0.28	SW	2.8	2	NE
20251019.18	0.28	SW	2.7	2	S
20251019.21	0.30	SW	2.6	2	E
20251020.00	0.31	SW	2.6	3	SE
20251020.03	0.32	SW	2.5	4	SE
20251020.06	0.34	W	2.3	5	S
20251020.09	0.36	W	2.2	5	E
20251020.12	0.32	W	2.3	4	NW
20251020.15	0.29	W	2.4	6	NW
20251020.18	0.37	S	2.3	7	N
20251020.21	0.44	S	2.4	5	N
20251021.00	0.41	S	2.5	2	NE
20251021.03	0.38	SW	2.6	3	NE
20251021.06	0.34	W	2.8	3	NE
20251021.09	0.36	W	2.7	7	W
20251021.12	0.51	S	2.7	10	NW

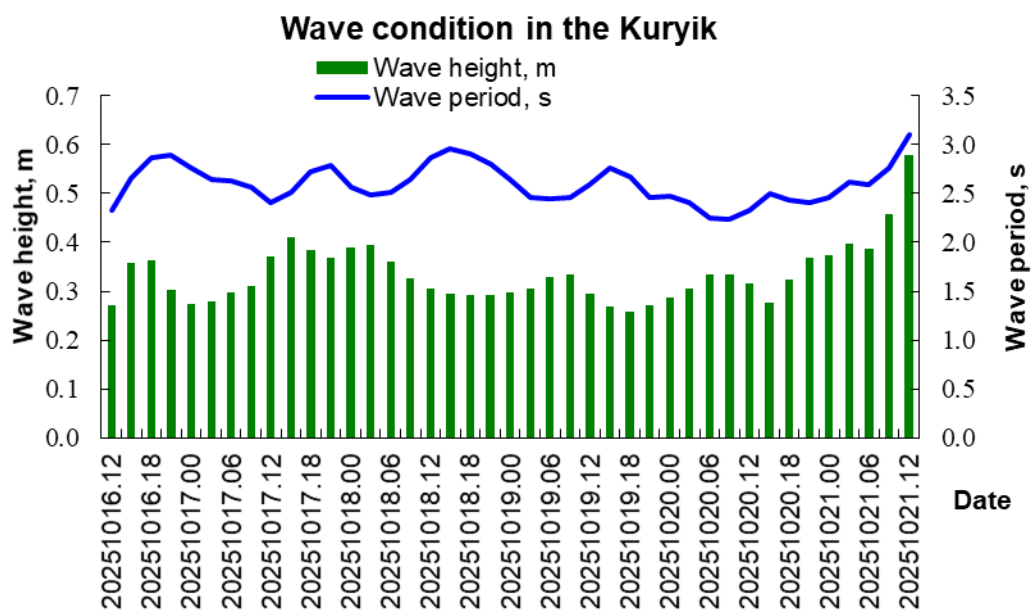
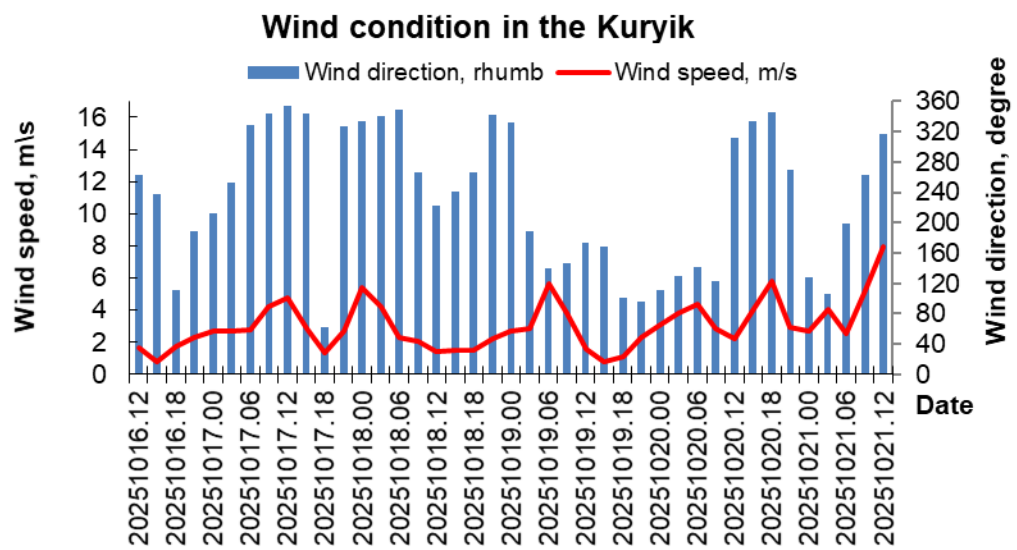
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251016.12	0.18	SW	2.4	1	SE
20251016.15	0.29	SW	2.5	2	SE
20251016.18	0.33	W	2.6	3	SE
20251016.21	0.33	W	2.7	2	SE
20251017.00	0.30	W	2.8	1	SW
20251017.03	0.28	W	2.9	2	SW
20251017.06	0.26	W	2.9	3	SW
20251017.09	0.28	SW	2.5	5	SW
20251017.12	0.42	SW	2.4	7	SW
20251017.15	0.48	SW	2.6	4	SW
20251017.18	0.44	SW	2.7	2	SE
20251017.21	0.41	SW	2.9	2	E
20251018.00	0.38	SW	3.0	3	NW
20251018.03	0.36	SW	3.0	3	N
20251018.06	0.34	SW	2.9	4	S
20251018.09	0.33	SW	2.9	2	S
20251018.12	0.31	SW	3.0	0	E
20251018.15	0.30	SW	3.0	1	SE
20251018.18	0.28	SW	3.0	2	S
20251018.21	0.28	SW	2.8	4	E
20251019.00	0.30	SW	2.5	5	N
20251019.03	0.32	SW	2.3	4	W
20251019.06	0.29	SW	2.4	3	SE
20251019.09	0.27	SW	2.5	3	SW
20251019.12	0.26	SW	2.4	3	N
20251019.15	0.27	SW	2.3	3	N
20251019.18	0.31	S	2.3	3	N
20251019.21	0.35	S	2.6	3	W
20251020.00	0.34	S	2.7	2	SW
20251020.03	0.32	SW	2.8	4	E
20251020.06	0.31	SW	2.6	5	S
20251020.09	0.30	SW	2.4	4	SE
20251020.12	0.28	SW	2.5	1	W
20251020.15	0.26	SW	2.7	4	NW
20251020.18	0.28	SW	2.4	6	NW
20251020.21	0.35	S	2.2	5	W
20251021.00	0.36	SW	2.3	5	E
20251021.03	0.42	W	2.5	6	E
20251021.06	0.58	W	2.7	8	E
20251021.09	0.76	W	3.0	8	S
20251021.12	0.79	W	3.4	10	W



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251016.12	0.27	SW	2.3	2	W
20251016.15	0.36	SW	2.7	1	SW
20251016.18	0.36	SW	2.9	2	E
20251016.21	0.30	SW	2.9	2	S
20251017.00	0.27	SW	2.8	3	SW
20251017.03	0.28	SW	2.6	3	W
20251017.06	0.30	SW	2.6	3	NW
20251017.09	0.31	SW	2.6	4	N
20251017.12	0.37	S	2.4	5	N
20251017.15	0.41	S	2.5	3	N
20251017.18	0.38	S	2.7	1	NE
20251017.21	0.37	SW	2.8	3	NW
20251018.00	0.39	S	2.6	5	NW
20251018.03	0.39	S	2.5	4	N
20251018.06	0.36	S	2.5	2	N
20251018.09	0.33	SW	2.6	2	W
20251018.12	0.30	SW	2.9	1	SW
20251018.15	0.30	SW	3.0	1	SW
20251018.18	0.29	SW	2.9	1	W
20251018.21	0.29	SW	2.8	2	N
20251019.00	0.30	SW	2.6	3	NW
20251019.03	0.31	SW	2.5	3	S
20251019.06	0.33	SW	2.4	6	SE
20251019.09	0.33	W	2.5	4	SE
20251019.12	0.29	SW	2.6	2	S
20251019.15	0.27	SW	2.8	1	S
20251019.18	0.26	SW	2.7	1	E
20251019.21	0.27	SW	2.5	2	E
20251020.00	0.29	SW	2.5	3	E
20251020.03	0.31	SW	2.4	4	SE
20251020.06	0.33	SW	2.3	4	SE
20251020.09	0.33	SW	2.2	3	SE
20251020.12	0.32	W	2.3	2	NW
20251020.15	0.28	W	2.5	4	NW
20251020.18	0.32	SW	2.4	6	N
20251020.21	0.37	S	2.4	3	W
20251021.00	0.37	SW	2.5	3	SE
20251021.03	0.40	SW	2.6	4	E
20251021.06	0.39	W	2.6	3	S
20251021.09	0.46	W	2.8	5	W
20251021.12	0.58	SW	3.1	8	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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