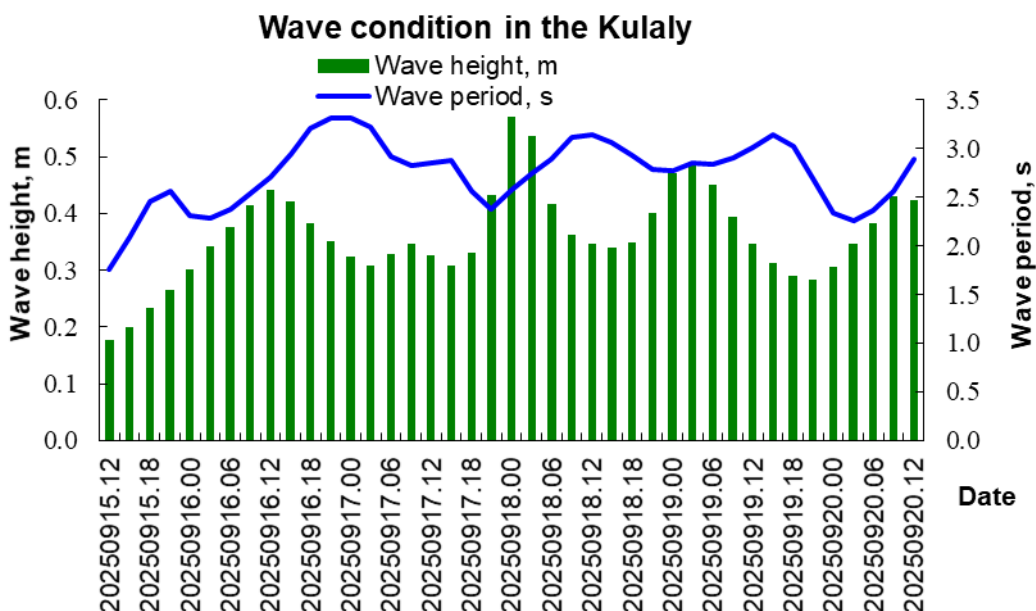
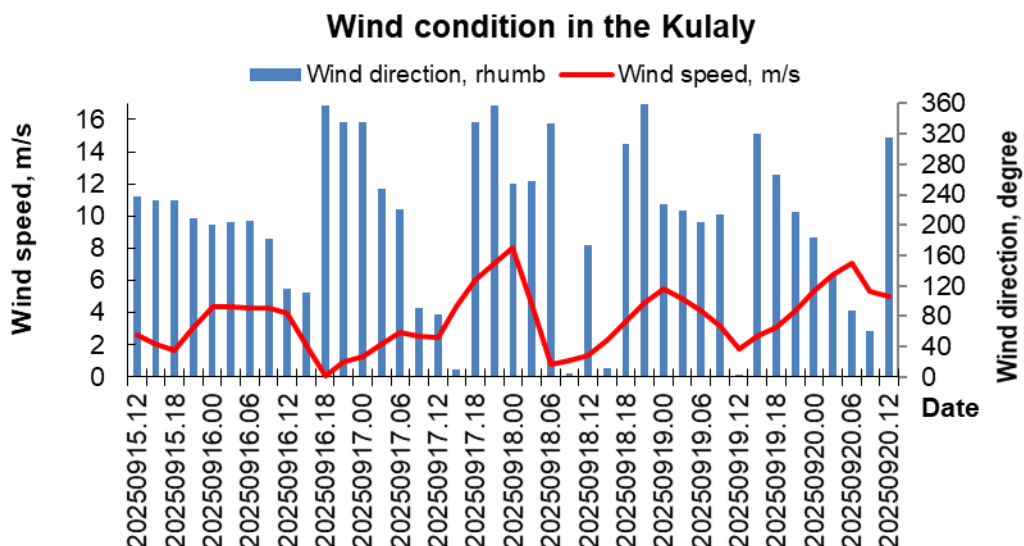




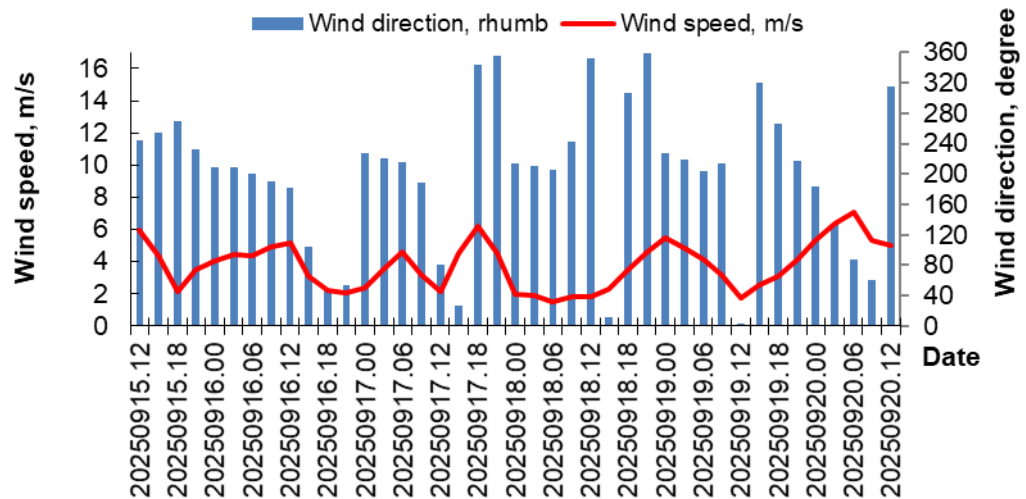
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 15 – 20, 2025.**

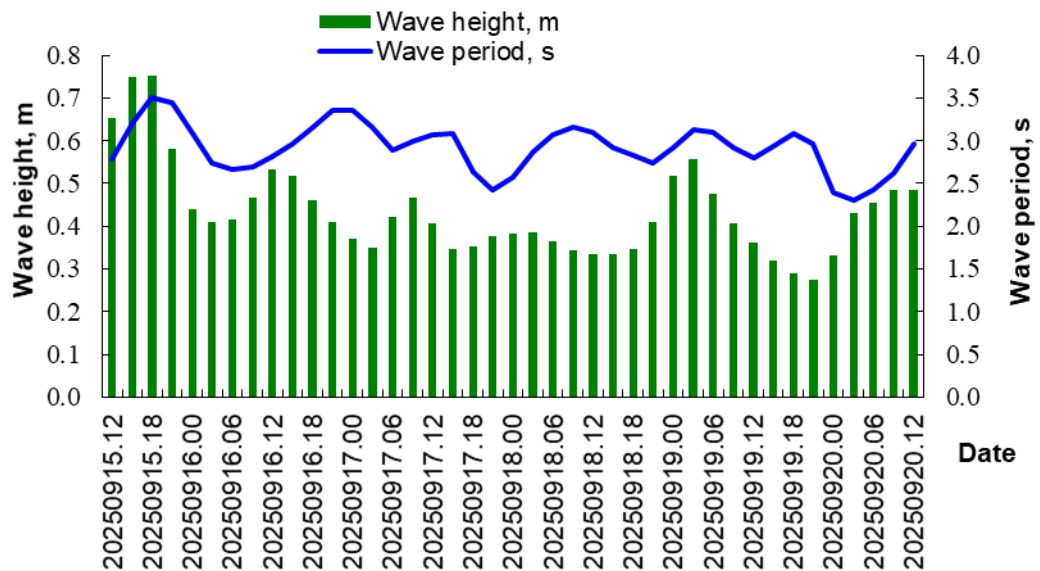


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250915.12	0.18	SW	1.8	3	SW
20250915.15	0.20	S	2.1	2	SW
20250915.18	0.23	S	2.5	2	SW
20250915.21	0.26	S	2.6	3	SW
20250916.00	0.30	S	2.3	4	S
20250916.03	0.34	SW	2.3	4	SW
20250916.06	0.37	SW	2.4	4	SW
20250916.09	0.42	SW	2.5	4	S
20250916.12	0.44	SW	2.7	4	SE
20250916.15	0.42	SW	2.9	2	E
20250916.18	0.38	SW	3.2	0	N
20250916.21	0.35	SW	3.3	1	NW
20250917.00	0.32	SW	3.3	1	NW
20250917.03	0.31	SW	3.2	2	W
20250917.06	0.33	SW	2.9	3	SW
20250917.09	0.35	SW	2.8	3	E
20250917.12	0.33	SW	2.9	2	E
20250917.15	0.31	SW	2.9	4	N
20250917.18	0.33	SW	2.6	6	NW
20250917.21	0.43	S	2.4	7	N
20250918.00	0.57	S	2.6	8	W
20250918.03	0.54	S	2.7	5	W
20250918.06	0.42	S	2.9	1	NW
20250918.09	0.36	SW	3.1	1	N
20250918.12	0.35	SW	3.1	1	S
20250918.15	0.34	SW	3.1	2	N
20250918.18	0.35	SW	2.9	4	NW
20250918.21	0.40	S	2.8	5	N
20250919.00	0.47	S	2.8	6	SW
20250919.03	0.49	S	2.9	5	SW
20250919.06	0.45	S	2.8	4	SW
20250919.09	0.39	S	2.9	3	SW
20250919.12	0.35	SW	3.0	2	N
20250919.15	0.31	SW	3.1	3	NW
20250919.18	0.29	SW	3.0	3	W
20250919.21	0.28	SW	2.7	4	SW
20250920.00	0.31	SW	2.3	5	S
20250920.03	0.35	SW	2.3	6	SE
20250920.06	0.38	W	2.4	7	E
20250920.09	0.43	W	2.6	5	NE
20250920.12	0.42	SW	2.9	5	NW

Wind condition in the Fort-Shevchenko

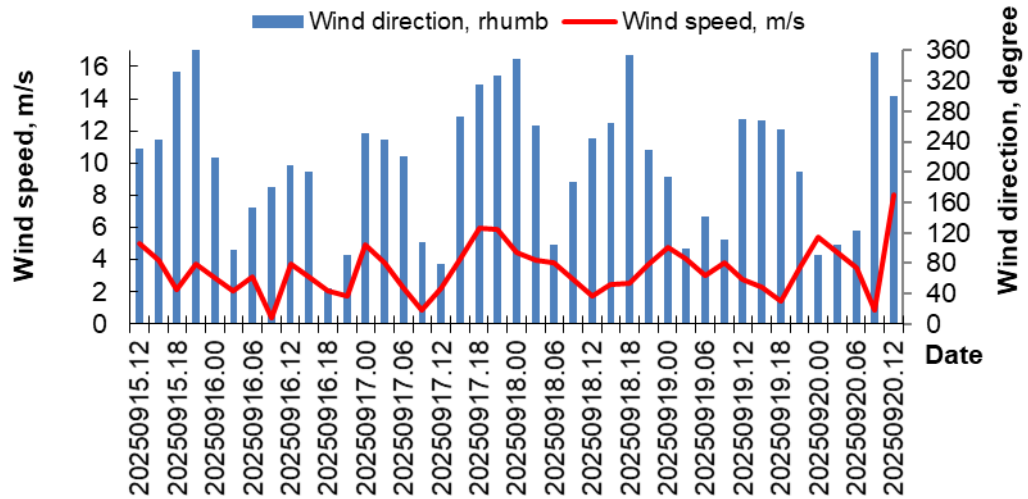


Wave condition in the Fort-Shevchenko

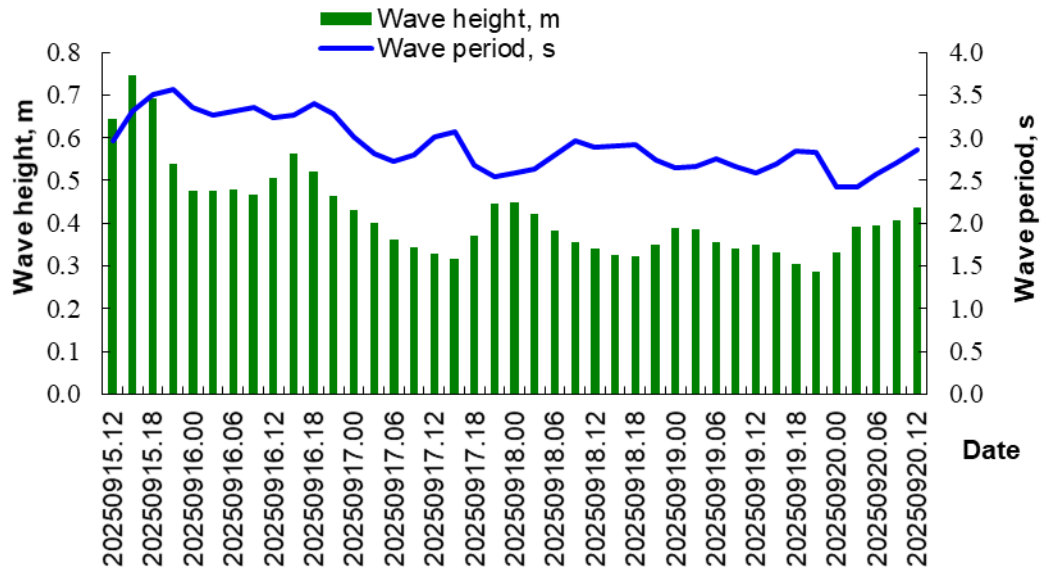


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250915.12	0.65	SW	2.8	6	SW
20250915.15	0.75	SW	3.2	4	W
20250915.18	0.75	S	3.5	2	W
20250915.21	0.58	S	3.5	3	SW
20250916.00	0.44	S	3.1	4	SW
20250916.03	0.41	S	2.7	4	SW
20250916.06	0.42	SW	2.7	4	S
20250916.09	0.47	SW	2.7	5	S
20250916.12	0.53	SW	2.8	5	S
20250916.15	0.52	SW	3.0	3	E
20250916.18	0.46	SW	3.2	2	NE
20250916.21	0.41	SW	3.4	2	NE
20250917.00	0.37	SW	3.4	2	SW
20250917.03	0.35	SW	3.2	4	SW
20250917.06	0.42	SW	2.9	5	SW
20250917.09	0.47	SW	3.0	3	S
20250917.12	0.41	SW	3.1	2	E
20250917.15	0.35	SW	3.1	5	NE
20250917.18	0.35	SW	2.6	6	N
20250917.21	0.38	S	2.4	5	N
20250918.00	0.38	S	2.6	2	SW
20250918.03	0.38	S	2.9	2	SW
20250918.06	0.36	S	3.1	1	SW
20250918.09	0.34	SW	3.2	2	SW
20250918.12	0.33	SW	3.1	2	N
20250918.15	0.34	SW	2.9	2	N
20250918.18	0.35	SW	2.8	4	NW
20250918.21	0.41	SW	2.7	5	N
20250919.00	0.52	SW	2.9	6	SW
20250919.03	0.56	SW	3.1	5	SW
20250919.06	0.48	SW	3.1	4	SW
20250919.09	0.41	SW	2.9	3	SW
20250919.12	0.36	SW	2.8	2	N
20250919.15	0.32	SW	2.9	3	NW
20250919.18	0.29	SW	3.1	3	W
20250919.21	0.27	SW	3.0	4	SW
20250920.00	0.33	SW	2.4	5	S
20250920.03	0.43	W	2.3	6	SE
20250920.06	0.46	W	2.4	7	E
20250920.09	0.48	W	2.6	5	NE
20250920.12	0.49	W	3.0	5	NW

Wind condition in the Aktau

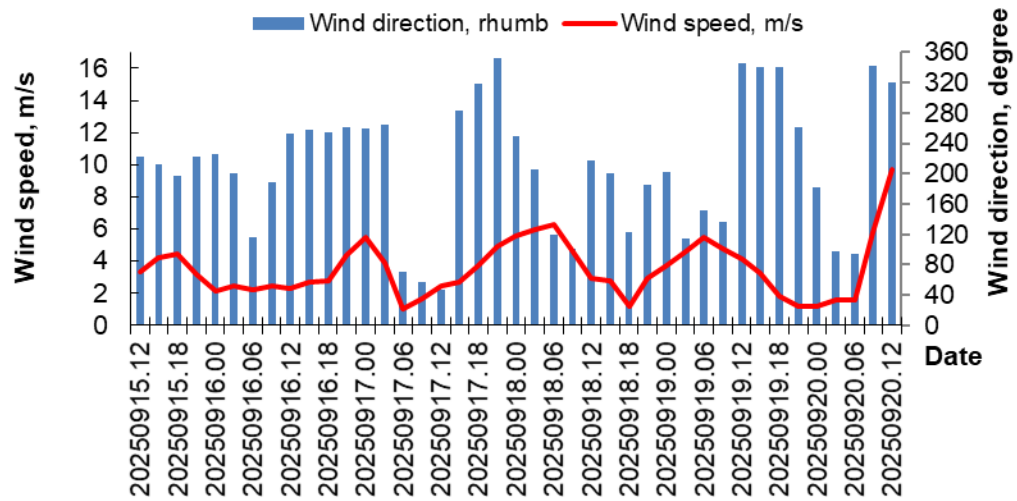


Wave condition in the Aktau

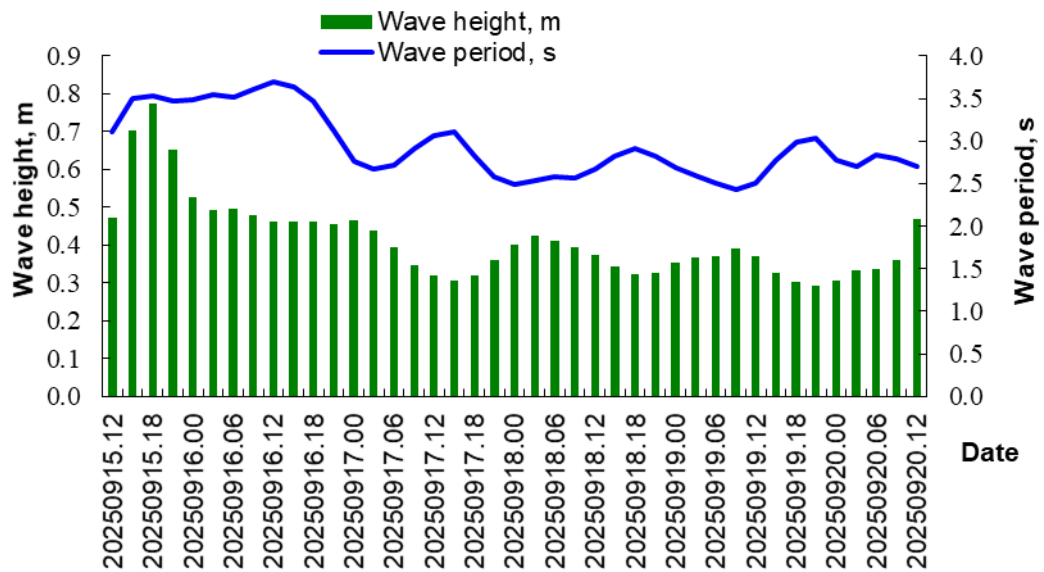


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250915.12	0.65	SW	3.0	5	SW
20250915.15	0.75	SW	3.3	4	SW
20250915.18	0.69	SW	3.5	2	NW
20250915.21	0.54	SW	3.6	4	N
20250916.00	0.48	SW	3.4	3	SW
20250916.03	0.48	SW	3.3	2	E
20250916.06	0.48	SW	3.3	3	SE
20250916.09	0.47	SW	3.4	0	S
20250916.12	0.51	SW	3.2	4	SW
20250916.15	0.56	SW	3.3	3	S
20250916.18	0.52	SW	3.4	2	NE
20250916.21	0.46	SW	3.3	2	E
20250917.00	0.43	SW	3.0	5	W
20250917.03	0.40	SW	2.8	4	SW
20250917.06	0.36	SW	2.7	2	SW
20250917.09	0.34	SW	2.8	1	E
20250917.12	0.33	SW	3.0	2	E
20250917.15	0.32	SW	3.1	4	W
20250917.18	0.37	S	2.7	6	NW
20250917.21	0.45	S	2.5	6	NW
20250918.00	0.45	S	2.6	4	N
20250918.03	0.42	S	2.6	4	W
20250918.06	0.38	S	2.8	4	E
20250918.09	0.35	S	3.0	3	S
20250918.12	0.34	SW	2.9	2	SW
20250918.15	0.33	SW	2.9	2	W
20250918.18	0.32	SW	2.9	3	N
20250918.21	0.35	SW	2.7	4	SW
20250919.00	0.39	SW	2.7	5	S
20250919.03	0.38	SW	2.7	4	E
20250919.06	0.35	SW	2.8	3	SE
20250919.09	0.34	SW	2.7	4	E
20250919.12	0.35	SW	2.6	3	W
20250919.15	0.33	SW	2.7	2	W
20250919.18	0.30	SW	2.9	1	W
20250919.21	0.29	SW	2.8	3	S
20250920.00	0.33	W	2.4	5	E
20250920.03	0.39	W	2.4	4	E
20250920.06	0.39	W	2.6	3	SE
20250920.09	0.41	W	2.7	1	N
20250920.12	0.44	SW	2.9	8	NW

Wind condition in the Peschanyi

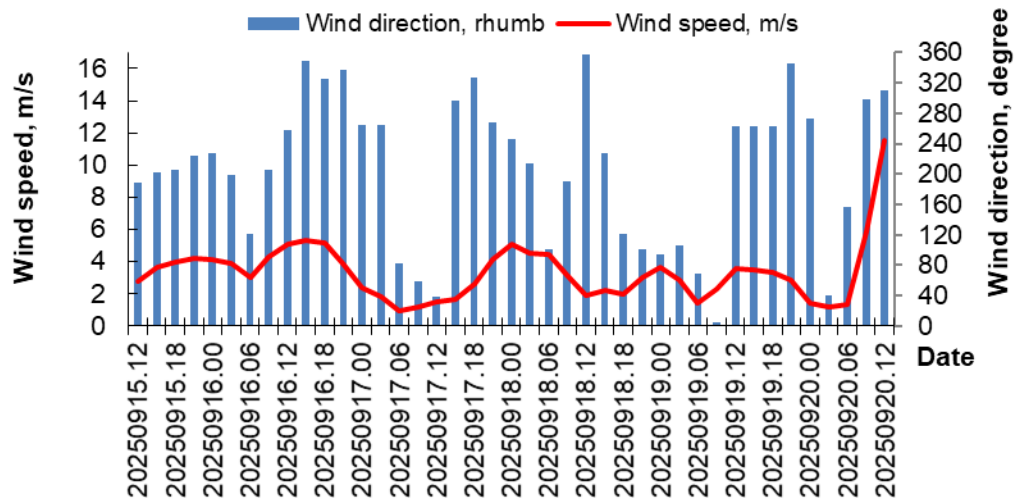


Wave condition in the Peschanyi

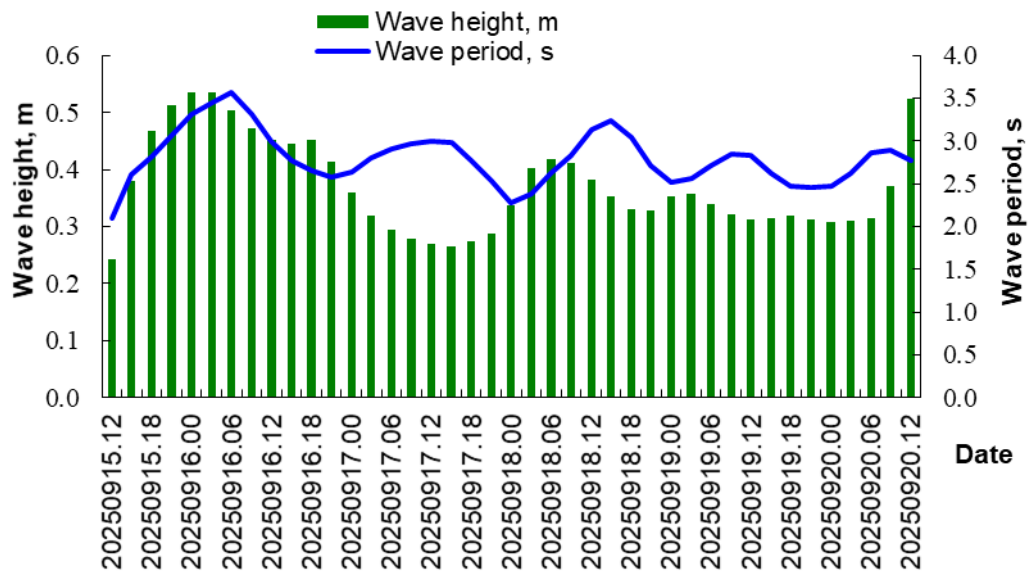


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250915.12	0.47	SW	3.1	3	SW
20250915.15	0.70	SW	3.5	4	SW
20250915.18	0.78	SW	3.5	4	S
20250915.21	0.65	SW	3.5	3	SW
20250916.00	0.53	SW	3.5	2	SW
20250916.03	0.49	SW	3.5	2	S
20250916.06	0.50	SW	3.5	2	SE
20250916.09	0.48	SW	3.6	2	S
20250916.12	0.46	SW	3.7	2	W
20250916.15	0.46	SW	3.6	3	W
20250916.18	0.46	SW	3.5	3	W
20250916.21	0.46	SW	3.1	4	W
20250917.00	0.47	SW	2.8	6	W
20250917.03	0.44	SW	2.7	4	W
20250917.06	0.39	SW	2.7	1	E
20250917.09	0.35	SW	2.9	2	NE
20250917.12	0.32	SW	3.1	2	NE
20250917.15	0.31	SW	3.1	3	W
20250917.18	0.32	SW	2.8	4	NW
20250917.21	0.36	S	2.6	5	N
20250918.00	0.40	S	2.5	6	W
20250918.03	0.43	S	2.5	6	SW
20250918.06	0.41	SW	2.6	6	SE
20250918.09	0.39	SW	2.6	5	E
20250918.12	0.37	SW	2.7	3	SW
20250918.15	0.34	SW	2.8	3	S
20250918.18	0.32	SW	2.9	1	SE
20250918.21	0.33	SW	2.8	3	S
20250919.00	0.35	SW	2.7	4	S
20250919.03	0.37	SW	2.6	5	SE
20250919.06	0.37	SW	2.5	6	SE
20250919.09	0.39	W	2.4	5	SE
20250919.12	0.37	W	2.5	4	N
20250919.15	0.33	W	2.8	3	N
20250919.18	0.30	SW	3.0	2	N
20250919.21	0.29	SW	3.0	1	W
20250920.00	0.31	SW	2.8	1	S
20250920.03	0.33	W	2.7	2	E
20250920.06	0.34	W	2.8	2	E
20250920.09	0.36	SW	2.8	6	N
20250920.12	0.47	S	2.7	10	NW

Wind condition in the Fetisovo

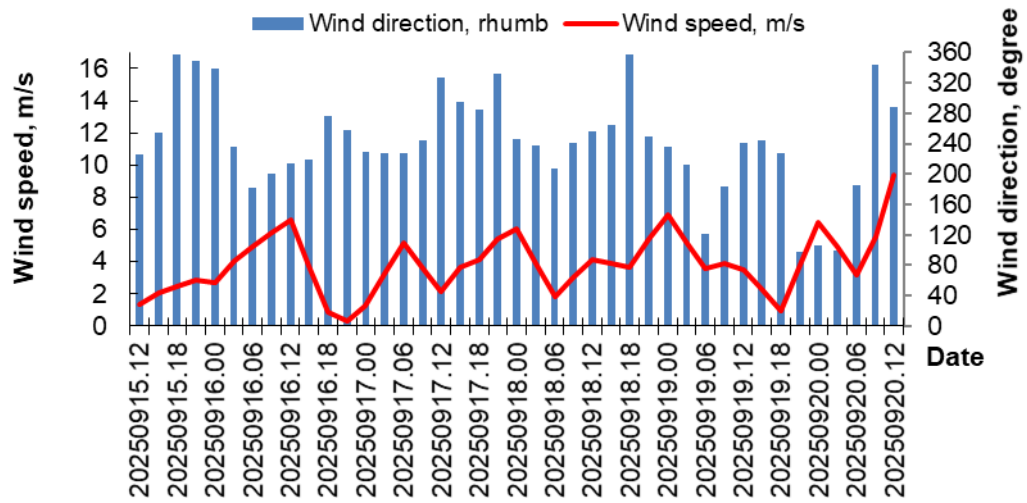


Wave condition in the Fetisovo

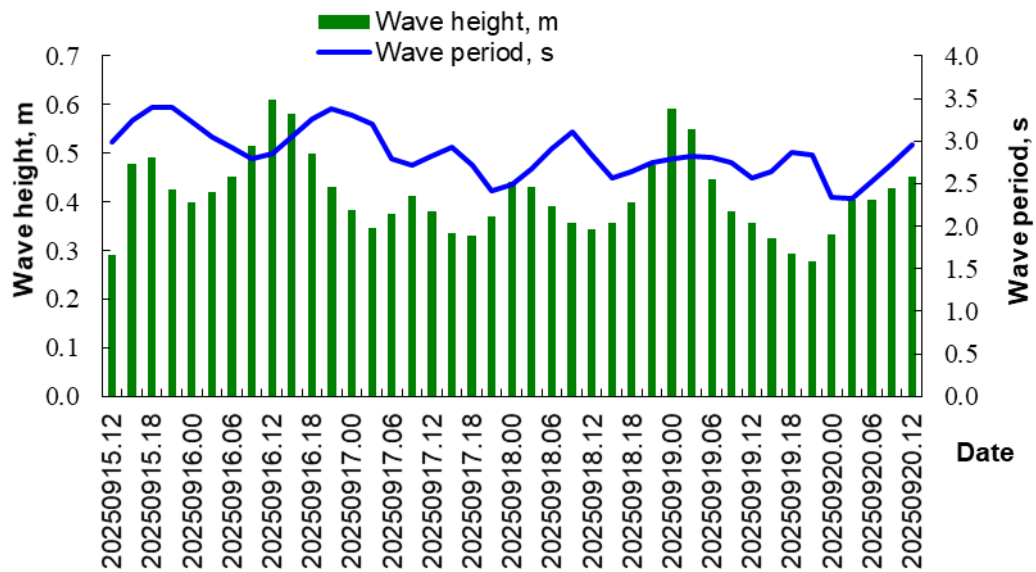


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250915.12	0.24	SW	2.1	3	S
20250915.15	0.38	SW	2.6	4	S
20250915.18	0.47	SW	2.8	4	SW
20250915.21	0.51	SW	3.1	4	SW
20250916.00	0.54	SW	3.3	4	SW
20250916.03	0.54	SW	3.5	4	S
20250916.06	0.50	SW	3.6	3	SE
20250916.09	0.47	SW	3.3	4	SW
20250916.12	0.45	SW	3.0	5	W
20250916.15	0.45	SW	2.8	5	N
20250916.18	0.45	S	2.6	5	NW
20250916.21	0.41	S	2.6	4	NW
20250917.00	0.36	S	2.6	2	W
20250917.03	0.32	SW	2.8	2	W
20250917.06	0.29	SW	2.9	1	E
20250917.09	0.28	SW	3.0	1	NE
20250917.12	0.27	SW	3.0	2	NE
20250917.15	0.26	SW	3.0	2	NW
20250917.18	0.27	SW	2.8	3	NW
20250917.21	0.29	SW	2.5	4	W
20250918.00	0.34	SW	2.3	5	SW
20250918.03	0.40	SW	2.4	5	SW
20250918.06	0.42	SW	2.6	4	E
20250918.09	0.41	SW	2.8	3	S
20250918.12	0.38	SW	3.1	2	N
20250918.15	0.35	SW	3.2	2	SW
20250918.18	0.33	SW	3.0	2	SE
20250918.21	0.33	SW	2.7	3	E
20250919.00	0.35	SW	2.5	4	E
20250919.03	0.36	SW	2.6	3	E
20250919.06	0.34	SW	2.7	1	E
20250919.09	0.32	SW	2.9	2	N
20250919.12	0.31	W	2.8	4	W
20250919.15	0.31	SW	2.6	4	W
20250919.18	0.32	SW	2.5	3	W
20250919.21	0.31	SW	2.5	3	N
20250920.00	0.31	SW	2.5	1	W
20250920.03	0.31	SW	2.6	1	NE
20250920.06	0.31	W	2.9	1	SE
20250920.09	0.37	SW	2.9	6	NW
20250920.12	0.53	S	2.8	12	NW

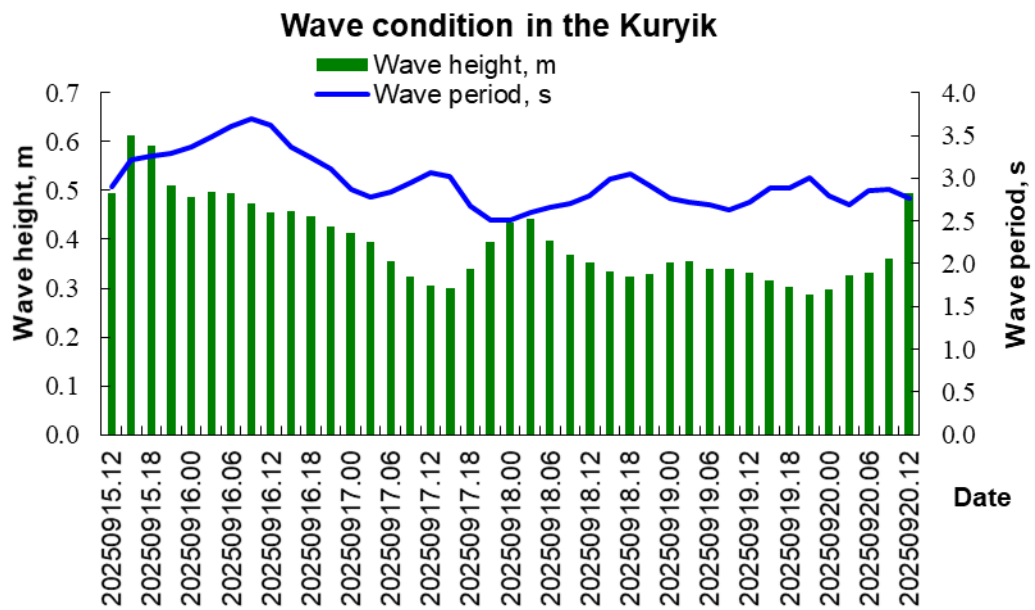
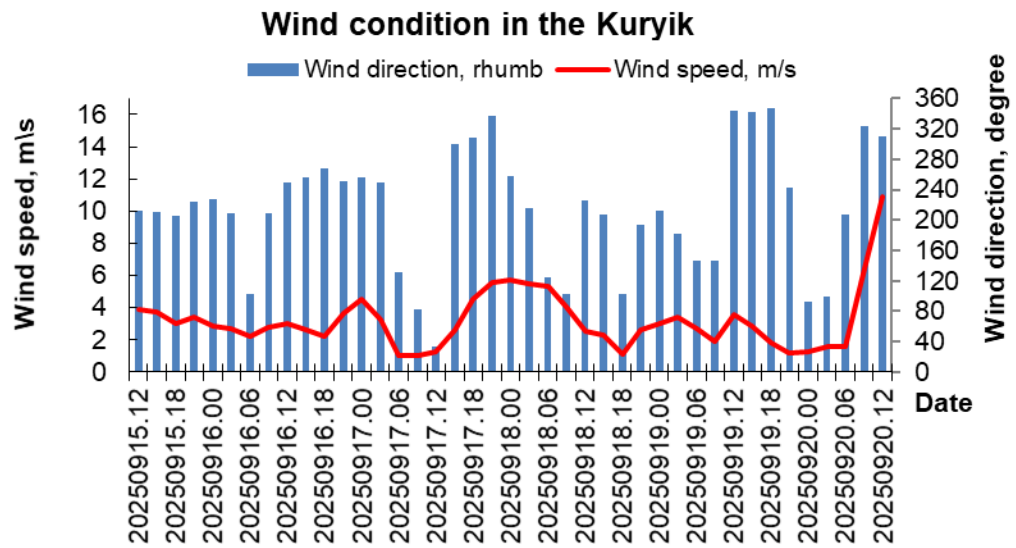
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250915.12	0.29	SW	3.0	1	SW
20250915.15	0.48	SW	3.2	2	W
20250915.18	0.49	SW	3.4	2	N
20250915.21	0.43	SW	3.4	3	N
20250916.00	0.40	S	3.2	3	N
20250916.03	0.42	S	3.0	4	SW
20250916.06	0.45	SW	2.9	5	S
20250916.09	0.51	SW	2.8	6	S
20250916.12	0.61	SW	2.9	7	SW
20250916.15	0.58	SW	3.0	4	SW
20250916.18	0.50	SW	3.3	1	W
20250916.21	0.43	SW	3.4	0	W
20250917.00	0.38	SW	3.3	1	SW
20250917.03	0.35	SW	3.2	3	SW
20250917.06	0.37	SW	2.8	5	SW
20250917.09	0.41	SW	2.7	4	SW
20250917.12	0.38	SW	2.8	2	NW
20250917.15	0.33	SW	2.9	4	NW
20250917.18	0.33	SW	2.7	4	W
20250917.21	0.37	S	2.4	5	NW
20250918.00	0.44	S	2.5	6	SW
20250918.03	0.43	S	2.7	4	SW
20250918.06	0.39	S	2.9	2	SW
20250918.09	0.36	S	3.1	3	SW
20250918.12	0.34	S	2.8	4	W
20250918.15	0.36	S	2.6	4	W
20250918.18	0.40	S	2.6	4	N
20250918.21	0.48	S	2.7	5	W
20250919.00	0.59	S	2.8	7	SW
20250919.03	0.55	SW	2.8	5	SW
20250919.06	0.45	SW	2.8	4	SE
20250919.09	0.38	SW	2.8	4	S
20250919.12	0.36	SW	2.6	3	SW
20250919.15	0.32	SW	2.6	2	SW
20250919.18	0.29	SW	2.9	1	SW
20250919.21	0.28	SW	2.8	4	E
20250920.00	0.33	W	2.3	6	E
20250920.03	0.40	W	2.3	5	E
20250920.06	0.40	W	2.5	3	S
20250920.09	0.43	W	2.7	6	N
20250920.12	0.45	SW	3.0	9	W



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250915.12	0.49	SW	2.9	4	SW
20250915.15	0.61	SW	3.2	4	SW
20250915.18	0.59	SW	3.3	3	SW
20250915.21	0.51	SW	3.3	3	SW
20250916.00	0.49	SW	3.4	3	SW
20250916.03	0.50	SW	3.5	3	SW
20250916.06	0.49	SW	3.6	2	E
20250916.09	0.47	SW	3.7	3	SW
20250916.12	0.45	SW	3.6	3	W
20250916.15	0.46	SW	3.4	3	W
20250916.18	0.45	SW	3.3	2	W
20250916.21	0.43	SW	3.1	4	W
20250917.00	0.41	SW	2.9	5	W
20250917.03	0.39	SW	2.8	3	W
20250917.06	0.36	SW	2.8	1	SE
20250917.09	0.32	SW	2.9	1	E
20250917.12	0.31	SW	3.1	1	NE
20250917.15	0.30	SW	3.0	3	NW
20250917.18	0.34	SW	2.7	5	NW
20250917.21	0.39	S	2.5	6	NW
20250918.00	0.43	S	2.5	6	W
20250918.03	0.44	S	2.6	5	SW
20250918.06	0.40	SW	2.7	5	SE
20250918.09	0.37	SW	2.7	4	E
20250918.12	0.35	SW	2.8	3	SW
20250918.15	0.33	SW	3.0	2	SW
20250918.18	0.32	SW	3.1	1	E
20250918.21	0.33	SW	2.9	3	S
20250919.00	0.35	SW	2.8	3	SW
20250919.03	0.36	SW	2.7	3	S
20250919.06	0.34	SW	2.7	3	SE
20250919.09	0.34	SW	2.6	2	SE
20250919.12	0.33	W	2.7	4	N
20250919.15	0.32	SW	2.9	3	N
20250919.18	0.30	SW	2.9	2	N
20250919.21	0.29	SW	3.0	1	SW
20250920.00	0.30	SW	2.8	1	E
20250920.03	0.33	W	2.7	2	E
20250920.06	0.33	W	2.8	2	SW
20250920.09	0.36	SW	2.9	6	NW
20250920.12	0.50	S	2.8	11	NW

**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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