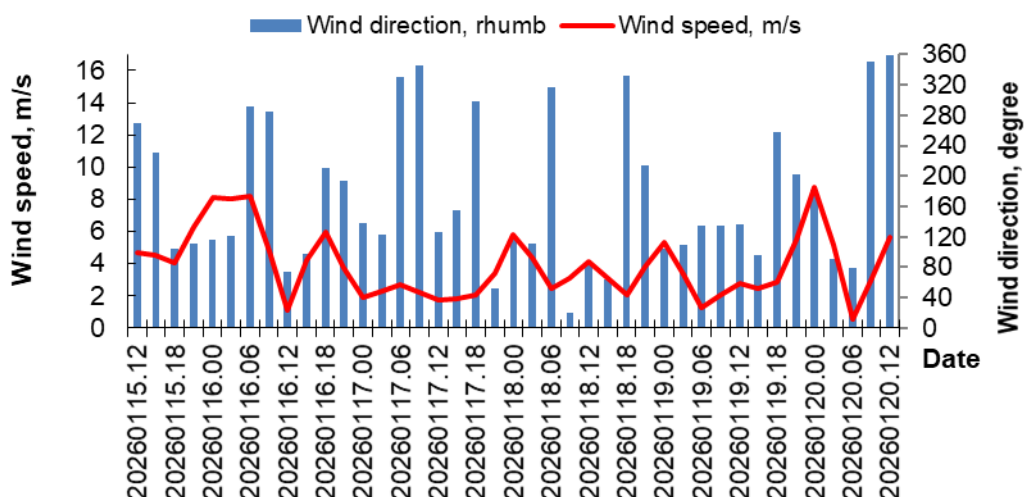




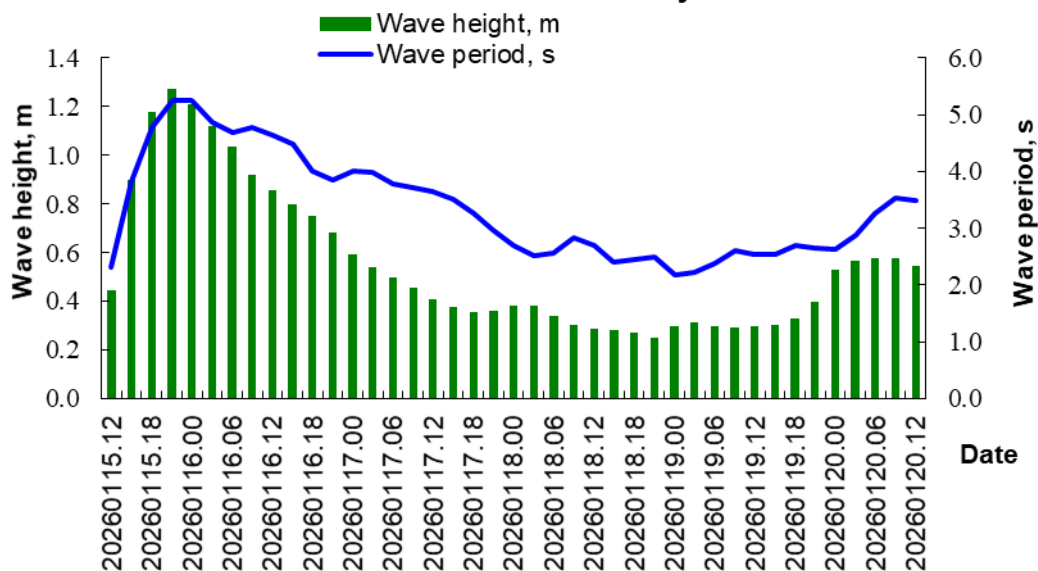
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period January 15 – 20, 2026 .**

Wind condition in the Kulaly

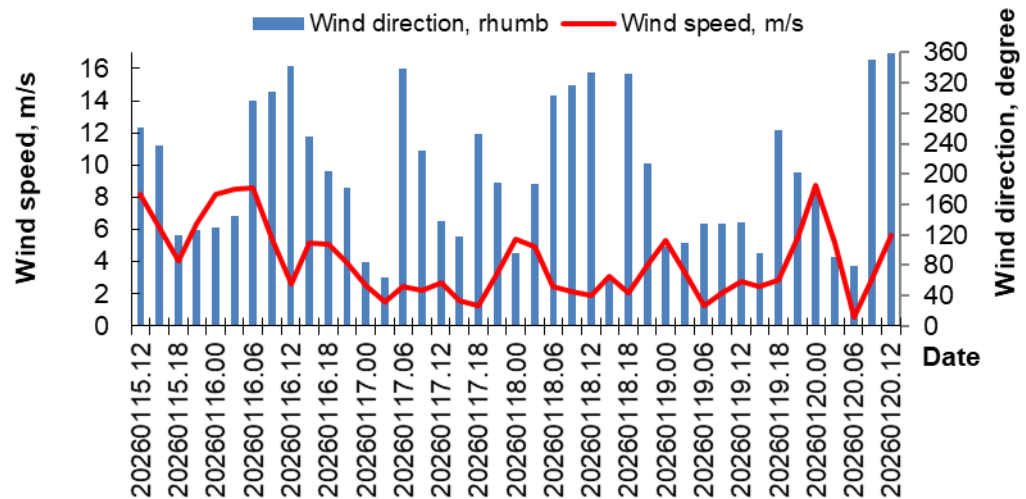


Wave condition in the Kulaly

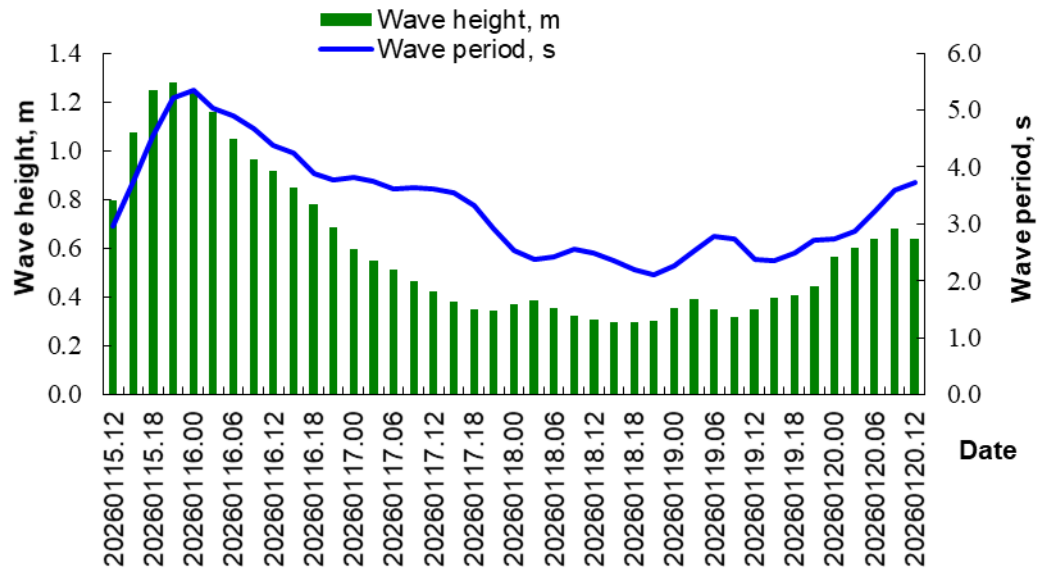


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260115.12	0.44	S	2.3	5	W
20260115.15	0.90	S	3.8	4	SW
20260115.18	1.18	S	4.8	4	E
20260115.21	1.27	S	5.2	6	E
20260116.00	1.21	S	5.3	8	SE
20260116.03	1.12	S	4.9	8	SE
20260116.06	1.03	S	4.7	8	W
20260116.09	0.92	S	4.8	5	W
20260116.12	0.86	S	4.6	1	E
20260116.15	0.80	S	4.5	4	E
20260116.18	0.75	S	4.0	6	SW
20260116.21	0.68	S	3.8	4	S
20260117.00	0.60	S	4.0	2	SE
20260117.03	0.54	S	4.0	2	SE
20260117.06	0.50	S	3.8	3	NW
20260117.09	0.45	S	3.7	2	N
20260117.12	0.41	S	3.6	2	SE
20260117.15	0.38	S	3.5	2	SE
20260117.18	0.36	SW	3.3	2	NW
20260117.21	0.36	SW	3.0	3	NE
20260118.00	0.38	SW	2.7	6	SE
20260118.03	0.38	SW	2.5	4	E
20260118.06	0.34	SW	2.6	2	NW
20260118.09	0.30	SW	2.8	3	N
20260118.12	0.28	SW	2.7	4	E
20260118.15	0.28	W	2.4	3	NE
20260118.18	0.27	W	2.5	2	NW
20260118.21	0.25	W	2.5	4	SW
20260119.00	0.30	W	2.2	5	E
20260119.03	0.31	W	2.2	3	E
20260119.06	0.30	W	2.4	1	SE
20260119.09	0.29	W	2.6	2	SE
20260119.12	0.30	W	2.5	3	SE
20260119.15	0.30	SW	2.5	2	E
20260119.18	0.33	SW	2.7	3	W
20260119.21	0.40	S	2.6	5	S
20260120.00	0.53	SW	2.6	9	S
20260120.03	0.57	SW	2.9	5	E
20260120.06	0.57	SW	3.3	1	E
20260120.09	0.58	SW	3.5	3	N
20260120.12	0.54	SW	3.5	6	N

Wind condition in the Fort-Shevchenko

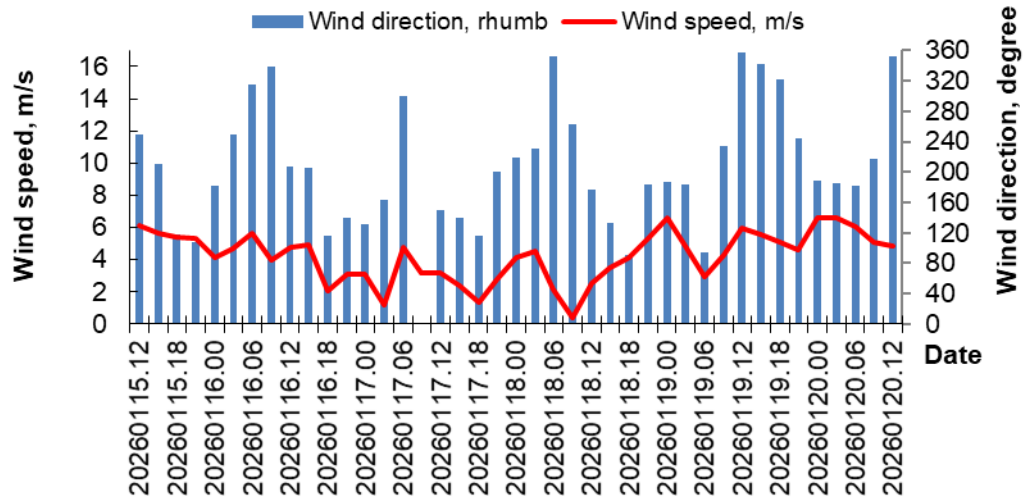


Wave condition in the Fort-Shevchenko

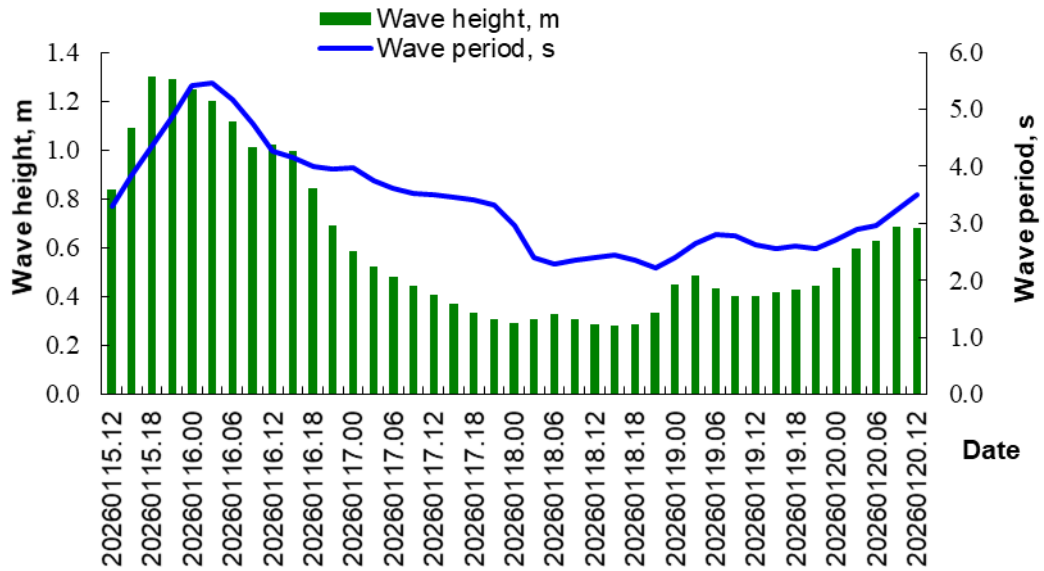


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260115.12	0.80	S	3.0	8	W
20260115.15	1.07	S	3.7	6	SW
20260115.18	1.25	S	4.5	4	SE
20260115.21	1.28	S	5.2	6	SE
20260116.00	1.24	S	5.3	8	SE
20260116.03	1.16	S	5.0	9	SE
20260116.06	1.05	S	4.9	9	NW
20260116.09	0.96	S	4.7	5	NW
20260116.12	0.92	S	4.4	3	N
20260116.15	0.85	S	4.2	5	W
20260116.18	0.78	S	3.9	5	SW
20260116.21	0.69	S	3.8	4	S
20260117.00	0.60	S	3.8	3	E
20260117.03	0.55	SW	3.8	1	NE
20260117.06	0.51	SW	3.6	2	N
20260117.09	0.47	SW	3.6	2	SW
20260117.12	0.42	SW	3.6	3	SE
20260117.15	0.38	SW	3.6	2	SE
20260117.18	0.35	SW	3.3	1	W
20260117.21	0.35	SW	2.9	3	S
20260118.00	0.37	SW	2.5	5	E
20260118.03	0.38	SW	2.4	5	S
20260118.06	0.36	SW	2.4	2	NW
20260118.09	0.32	W	2.5	2	NW
20260118.12	0.31	W	2.5	2	NW
20260118.15	0.30	SW	2.3	3	NE
20260118.18	0.29	SW	2.2	2	NW
20260118.21	0.30	SW	2.1	4	SW
20260119.00	0.36	SW	2.3	5	E
20260119.03	0.39	SW	2.5	3	E
20260119.06	0.35	SW	2.8	1	SE
20260119.09	0.32	SW	2.7	2	SE
20260119.12	0.35	SW	2.4	3	SE
20260119.15	0.40	SW	2.4	2	E
20260119.18	0.41	S	2.5	3	W
20260119.21	0.45	S	2.7	5	S
20260120.00	0.56	SW	2.7	9	S
20260120.03	0.60	SW	2.9	5	E
20260120.06	0.64	SW	3.2	1	E
20260120.09	0.68	SW	3.6	3	N
20260120.12	0.64	SW	3.7	6	N

Wind condition in the Aktau

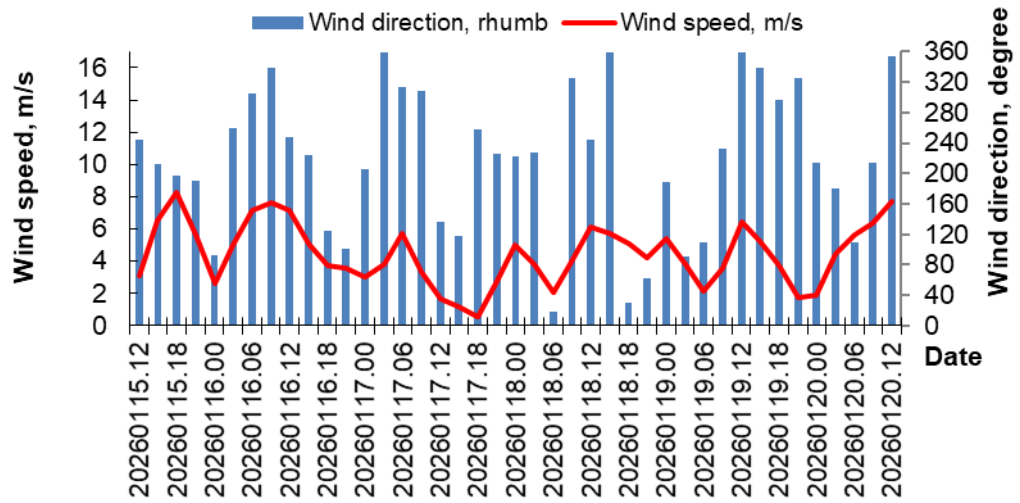


Wave condition in the Aktau

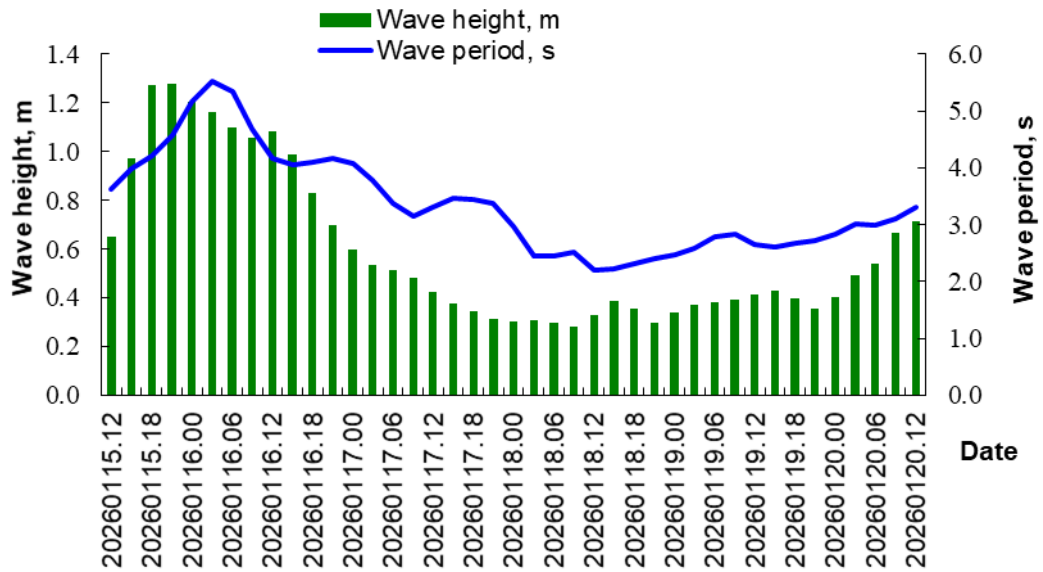


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260115.12	0.84	S	3.3	6	W
20260115.15	1.09	S	3.8	6	SW
20260115.18	1.30	SW	4.4	5	SE
20260115.21	1.29	SW	4.9	5	E
20260116.00	1.25	SW	5.4	4	S
20260116.03	1.20	SW	5.5	5	W
20260116.06	1.12	S	5.2	6	NW
20260116.09	1.01	S	4.8	4	N
20260116.12	1.02	SW	4.3	5	SW
20260116.15	1.00	SW	4.2	5	SW
20260116.18	0.84	SW	4.0	2	SE
20260116.21	0.69	SW	4.0	3	SE
20260117.00	0.59	SW	4.0	3	SE
20260117.03	0.53	SW	3.7	1	S
20260117.06	0.48	SW	3.6	5	NW
20260117.09	0.44	SW	3.5	3	N
20260117.12	0.40	SW	3.5	3	SE
20260117.15	0.37	SW	3.5	2	SE
20260117.18	0.33	SW	3.4	1	SE
20260117.21	0.30	SW	3.3	3	S
20260118.00	0.29	SW	3.0	4	SW
20260118.03	0.31	SW	2.4	5	SW
20260118.06	0.33	SW	2.3	2	N
20260118.09	0.30	SW	2.4	0	W
20260118.12	0.29	W	2.4	3	S
20260118.15	0.28	W	2.4	3	SE
20260118.18	0.29	W	2.3	4	E
20260118.21	0.34	W	2.2	5	S
20260119.00	0.45	W	2.4	7	S
20260119.03	0.49	W	2.6	5	S
20260119.06	0.44	W	2.8	3	E
20260119.09	0.40	W	2.8	4	SW
20260119.12	0.40	SW	2.6	6	N
20260119.15	0.42	SW	2.5	6	N
20260119.18	0.43	S	2.6	5	NW
20260119.21	0.45	S	2.6	5	SW
20260120.00	0.52	SW	2.7	7	S
20260120.03	0.60	SW	2.9	7	S
20260120.06	0.63	W	3.0	6	S
20260120.09	0.68	W	3.2	5	SW
20260120.12	0.68	W	3.5	5	N

Wind condition in the Peschanyi

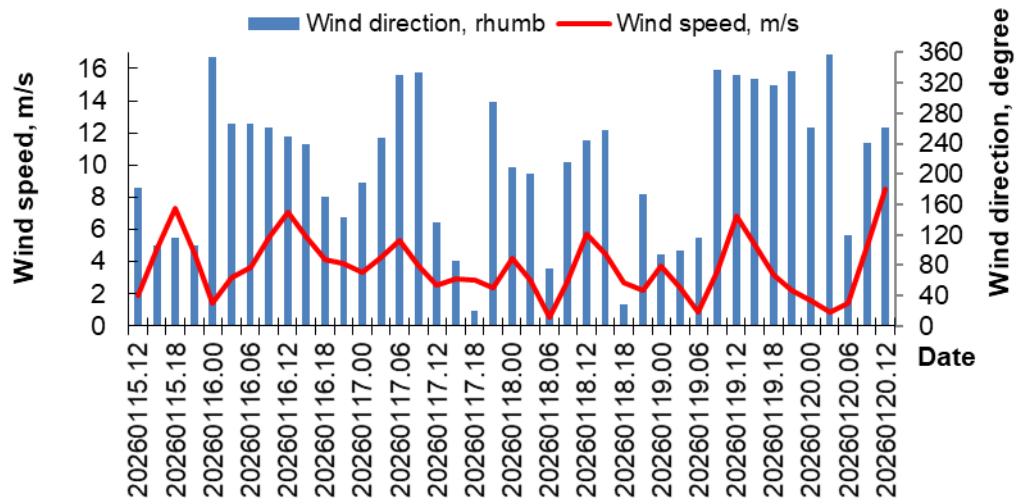


Wave condition in the Peschanyi

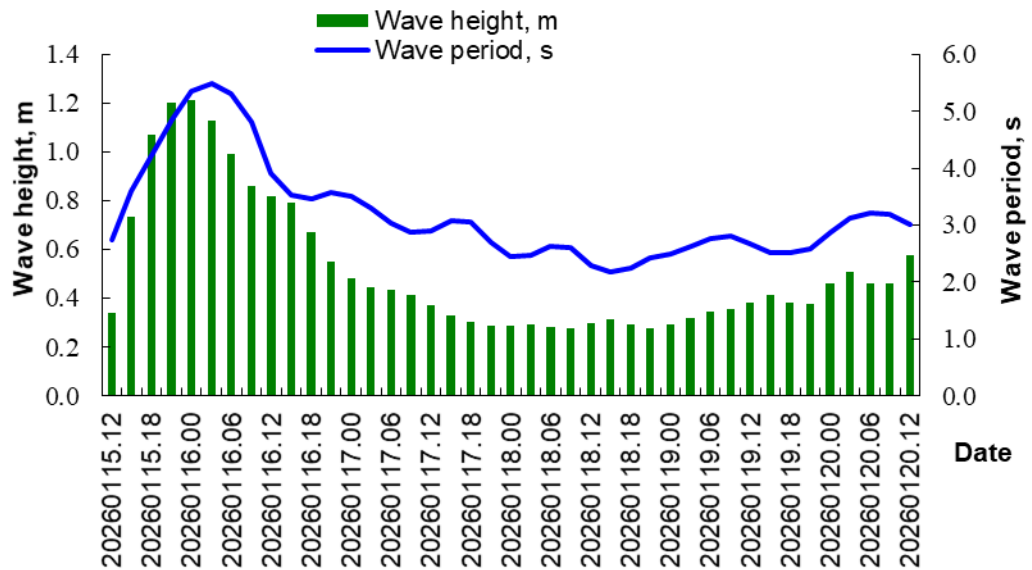


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260115.12	0.65	SW	3.6	3	SW
20260115.15	0.97	SW	4.0	7	SW
20260115.18	1.27	SW	4.2	8	S
20260115.21	1.28	SW	4.6	6	S
20260116.00	1.20	SW	5.2	3	E
20260116.03	1.16	SW	5.5	5	W
20260116.06	1.10	SW	5.4	7	NW
20260116.09	1.05	S	4.7	8	N
20260116.12	1.08	S	4.2	7	W
20260116.15	0.99	S	4.1	5	SW
20260116.18	0.83	SW	4.1	4	SE
20260116.21	0.70	SW	4.2	4	E
20260117.00	0.60	SW	4.1	3	SW
20260117.03	0.53	SW	3.8	4	N
20260117.06	0.51	SW	3.4	6	NW
20260117.09	0.48	SW	3.2	3	NW
20260117.12	0.42	SW	3.3	2	SE
20260117.15	0.38	SW	3.5	1	SE
20260117.18	0.34	SW	3.5	1	W
20260117.21	0.31	SW	3.4	3	SW
20260118.00	0.30	SW	3.0	5	SW
20260118.03	0.31	SW	2.5	4	SW
20260118.06	0.30	SW	2.5	2	N
20260118.09	0.28	SW	2.5	4	NW
20260118.12	0.33	SW	2.2	6	SW
20260118.15	0.39	SW	2.2	6	N
20260118.18	0.36	SW	2.3	5	NE
20260118.21	0.30	SW	2.4	4	NE
20260119.00	0.34	W	2.5	5	S
20260119.03	0.37	W	2.6	4	E
20260119.06	0.38	W	2.8	2	E
20260119.09	0.39	W	2.8	4	SW
20260119.12	0.41	SW	2.7	6	N
20260119.15	0.43	SW	2.6	5	N
20260119.18	0.40	SW	2.7	4	NW
20260119.21	0.36	SW	2.7	2	NW
20260120.00	0.40	SW	2.8	2	SW
20260120.03	0.49	SW	3.0	4	S
20260120.06	0.54	W	3.0	6	E
20260120.09	0.66	W	3.1	6	SW
20260120.12	0.71	SW	3.3	8	N

Wind condition in the Fetisovo

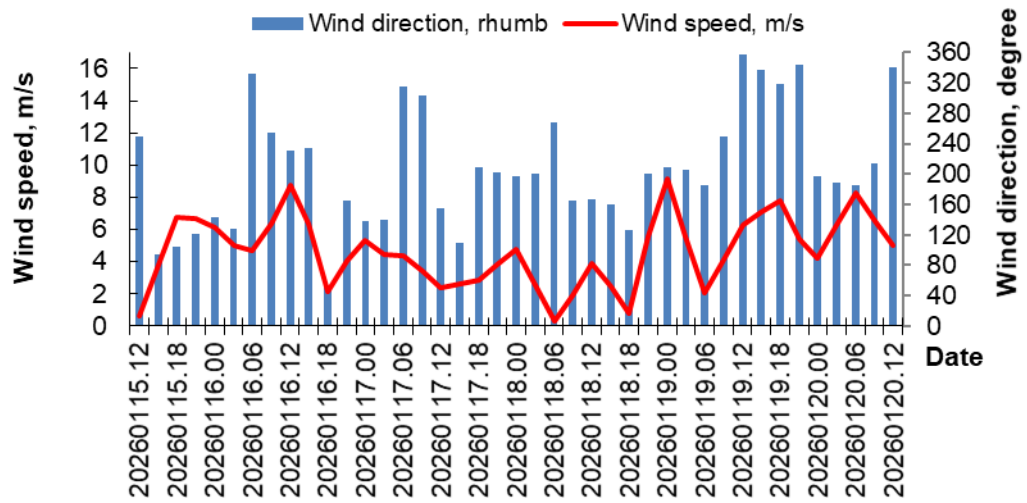


Wave condition in the Fetisovo

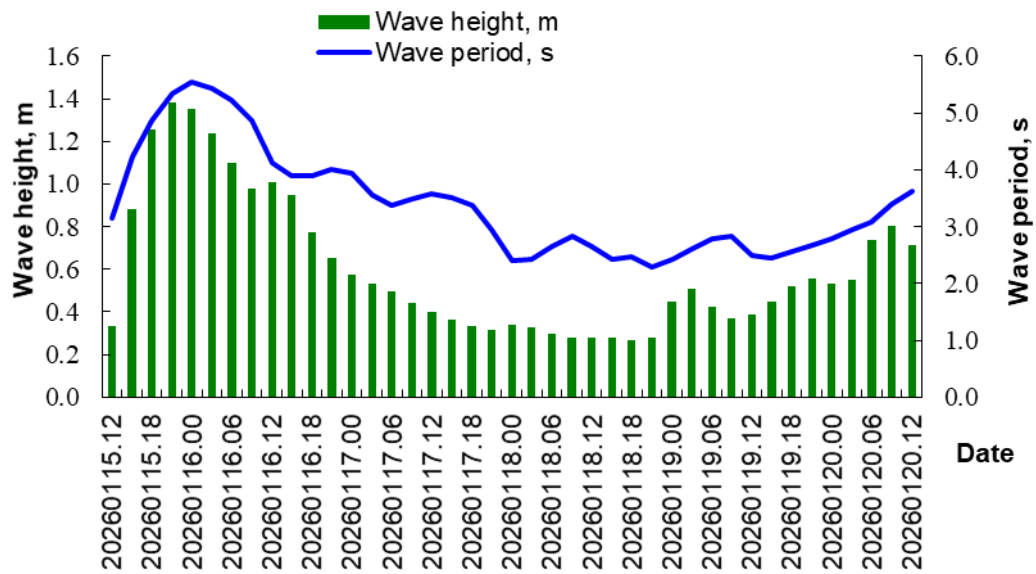


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260115.12	0.34	SW	2.7	2	S
20260115.15	0.73	SW	3.6	5	E
20260115.18	1.07	SW	4.2	7	SE
20260115.21	1.20	SW	4.9	4	E
20260116.00	1.21	SW	5.4	1	N
20260116.03	1.13	SW	5.5	3	W
20260116.06	0.99	SW	5.3	4	W
20260116.09	0.86	SW	4.8	5	W
20260116.12	0.82	SW	3.9	7	W
20260116.15	0.79	SW	3.5	6	SW
20260116.18	0.67	SW	3.5	4	S
20260116.21	0.55	SW	3.6	4	SE
20260117.00	0.48	SW	3.5	3	S
20260117.03	0.44	SW	3.3	4	SW
20260117.06	0.43	SW	3.0	5	NW
20260117.09	0.41	SW	2.9	4	NW
20260117.12	0.37	SW	2.9	3	SE
20260117.15	0.33	SW	3.1	3	E
20260117.18	0.30	SW	3.0	3	N
20260117.21	0.29	SW	2.7	2	NW
20260118.00	0.29	SW	2.4	4	SW
20260118.03	0.29	W	2.5	3	S
20260118.06	0.28	W	2.6	1	E
20260118.09	0.28	W	2.6	3	SW
20260118.12	0.30	W	2.3	6	SW
20260118.15	0.32	SW	2.2	4	W
20260118.18	0.29	SW	2.2	3	NE
20260118.21	0.28	SW	2.4	2	S
20260119.00	0.29	SW	2.5	4	E
20260119.03	0.32	SW	2.6	2	E
20260119.06	0.34	W	2.8	1	SE
20260119.09	0.36	W	2.8	3	NW
20260119.12	0.38	SW	2.7	7	NW
20260119.15	0.41	SW	2.5	5	NW
20260119.18	0.38	SW	2.5	3	NW
20260119.21	0.38	SW	2.6	2	NW
20260120.00	0.46	SW	2.9	2	W
20260120.03	0.51	W	3.1	1	N
20260120.06	0.46	W	3.2	1	SE
20260120.09	0.46	W	3.2	5	SW
20260120.12	0.57	SW	3.0	9	W

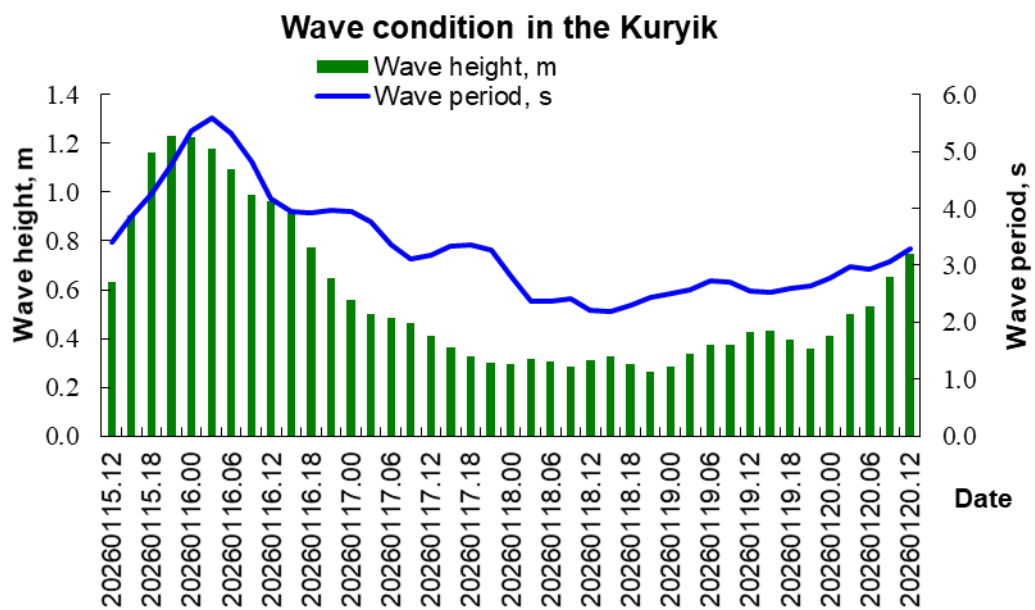
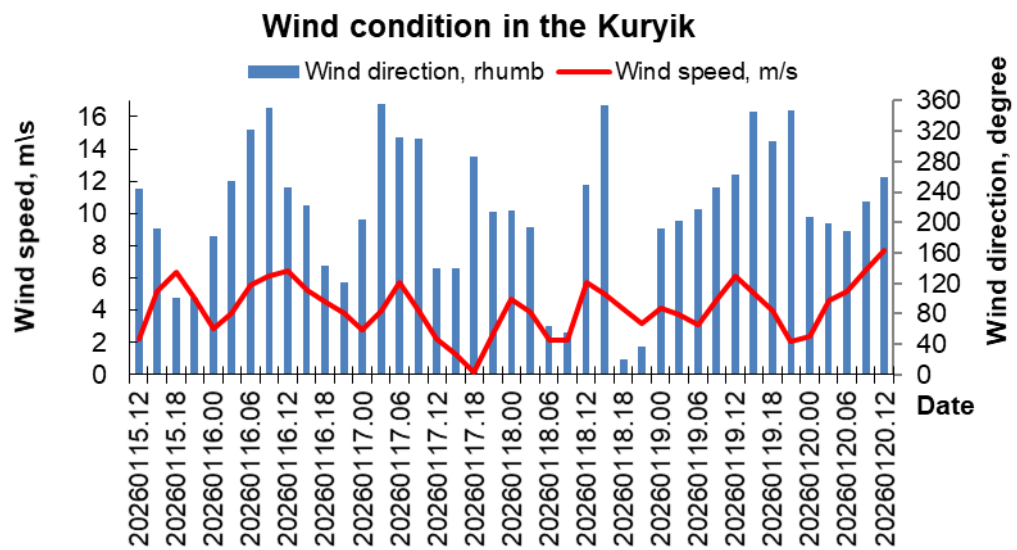
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260115.12	0.33	S	3.1	1	W
20260115.15	0.88	S	4.2	4	E
20260115.18	1.26	S	4.9	7	E
20260115.21	1.38	S	5.3	7	SE
20260116.00	1.35	S	5.6	6	SE
20260116.03	1.24	S	5.4	5	SE
20260116.06	1.10	S	5.2	5	NW
20260116.09	0.98	S	4.9	6	W
20260116.12	1.01	S	4.1	9	SW
20260116.15	0.95	S	3.9	6	SW
20260116.18	0.78	S	3.9	2	NE
20260116.21	0.65	S	4.0	4	S
20260117.00	0.57	S	3.9	5	SE
20260117.03	0.53	SW	3.6	4	SE
20260117.06	0.50	SW	3.4	4	NW
20260117.09	0.44	SW	3.5	3	NW
20260117.12	0.40	SW	3.6	2	SE
20260117.15	0.36	SW	3.5	3	E
20260117.18	0.33	SW	3.4	3	SW
20260117.21	0.32	SW	2.9	4	S
20260118.00	0.34	SW	2.4	5	S
20260118.03	0.33	SW	2.4	3	S
20260118.06	0.30	SW	2.6	0	W
20260118.09	0.28	SW	2.8	2	S
20260118.12	0.28	W	2.7	4	S
20260118.15	0.28	W	2.4	2	S
20260118.18	0.27	W	2.5	1	SE
20260118.21	0.28	W	2.3	6	S
20260119.00	0.45	W	2.4	9	SW
20260119.03	0.51	SW	2.6	6	SW
20260119.06	0.42	SW	2.8	2	S
20260119.09	0.37	SW	2.8	4	W
20260119.12	0.39	SW	2.5	6	N
20260119.15	0.45	SW	2.4	7	NW
20260119.18	0.52	S	2.6	8	NW
20260119.21	0.56	S	2.7	5	N
20260120.00	0.53	S	2.8	4	S
20260120.03	0.55	SW	2.9	6	S
20260120.06	0.74	W	3.1	8	S
20260120.09	0.81	W	3.4	6	SW
20260120.12	0.71	SW	3.6	5	N



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260115.12	0.63	SW	3.4	2	SW
20260115.15	0.91	SW	3.9	5	S
20260115.18	1.16	SW	4.3	6	E
20260115.21	1.23	SW	4.8	5	E
20260116.00	1.23	SW	5.4	3	S
20260116.03	1.18	SW	5.6	4	W
20260116.06	1.09	SW	5.3	6	NW
20260116.09	0.99	S	4.8	6	N
20260116.12	0.96	S	4.2	6	SW
20260116.15	0.91	SW	3.9	5	SW
20260116.18	0.77	SW	3.9	5	SE
20260116.21	0.65	SW	4.0	4	SE
20260117.00	0.56	SW	3.9	3	SW
20260117.03	0.50	SW	3.8	4	N
20260117.06	0.48	SW	3.4	6	NW
20260117.09	0.46	SW	3.1	4	NW
20260117.12	0.41	SW	3.2	2	SE
20260117.15	0.36	SW	3.3	1	SE
20260117.18	0.33	SW	3.4	0	W
20260117.21	0.30	SW	3.3	3	SW
20260118.00	0.29	SW	2.8	5	SW
20260118.03	0.32	SW	2.4	4	S
20260118.06	0.31	W	2.4	2	NE
20260118.09	0.29	W	2.4	2	NE
20260118.12	0.31	SW	2.2	6	W
20260118.15	0.32	SW	2.2	5	N
20260118.18	0.30	SW	2.3	4	N
20260118.21	0.27	SW	2.4	3	NE
20260119.00	0.28	SW	2.5	4	S
20260119.03	0.34	W	2.6	4	SW
20260119.06	0.38	W	2.7	3	SW
20260119.09	0.38	W	2.7	5	SW
20260119.12	0.42	SW	2.5	6	W
20260119.15	0.43	SW	2.5	5	N
20260119.18	0.40	SW	2.6	4	NW
20260119.21	0.36	SW	2.6	2	N
20260120.00	0.41	SW	2.8	2	SW
20260120.03	0.50	W	3.0	5	S
20260120.06	0.53	W	2.9	5	S
20260120.09	0.65	W	3.1	7	SW
20260120.12	0.75	SW	3.3	8	W

**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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