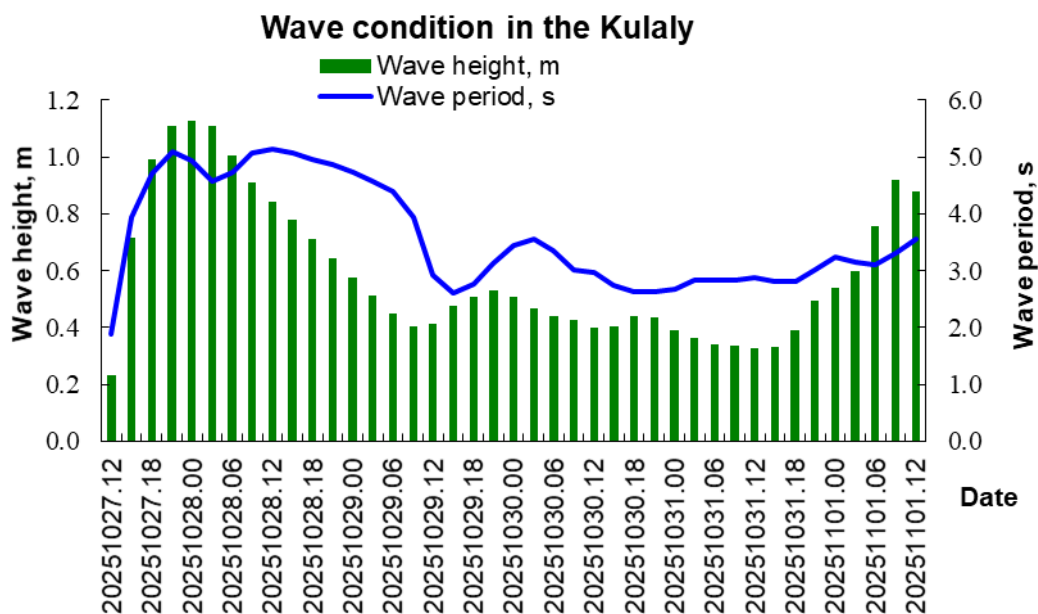
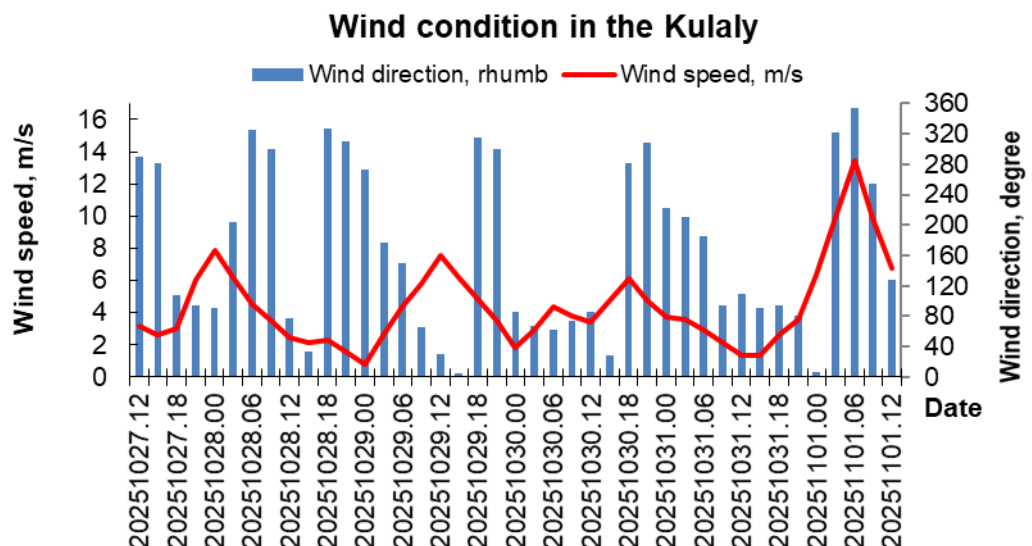




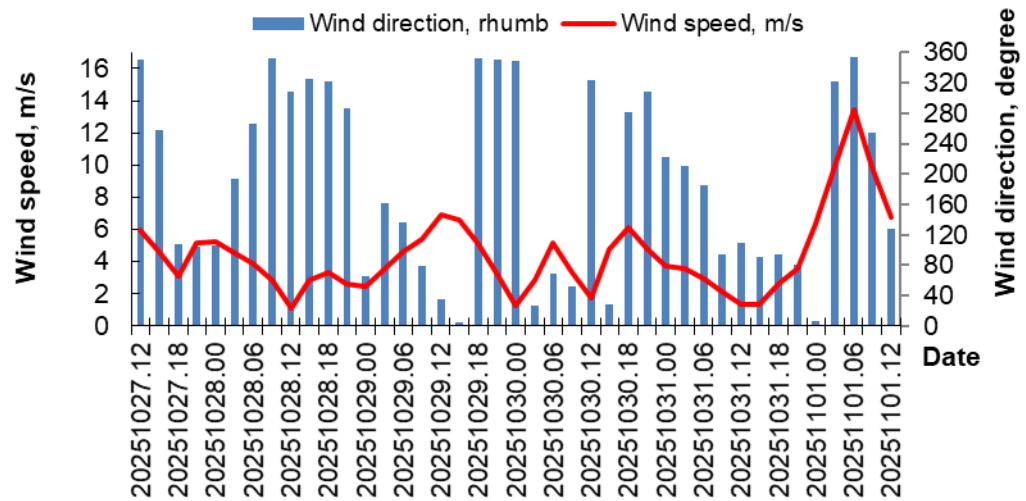
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 27 – November 01, 2025.**

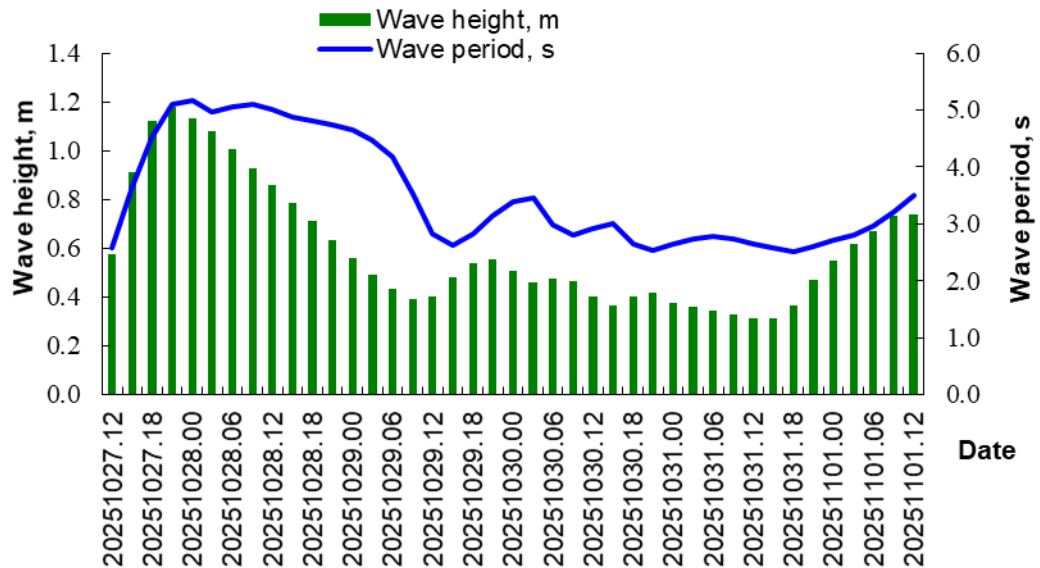


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251027.12	0.23	E	1.9	3	W
20251027.15	0.72	S	3.9	3	W
20251027.18	0.99	S	4.7	3	E
20251027.21	1.11	S	5.1	6	E
20251028.00	1.13	S	4.9	8	E
20251028.03	1.11	S	4.6	6	SW
20251028.06	1.01	S	4.7	5	NW
20251028.09	0.91	S	5.1	3	NW
20251028.12	0.84	S	5.1	2	E
20251028.15	0.78	S	5.1	2	NE
20251028.18	0.71	S	5.0	2	NW
20251028.21	0.64	S	4.9	2	NW
20251029.00	0.58	S	4.7	1	W
20251029.03	0.51	S	4.6	3	S
20251029.06	0.45	S	4.4	4	SE
20251029.09	0.40	S	4.0	6	NE
20251029.12	0.41	SE	2.9	8	NE
20251029.15	0.48	E	2.6	6	N
20251029.18	0.51	E	2.8	5	NW
20251029.21	0.53	E	3.1	3	NW
20251030.00	0.51	E	3.4	2	E
20251030.03	0.47	E	3.6	3	NE
20251030.06	0.44	E	3.4	4	NE
20251030.09	0.43	E	3.0	4	E
20251030.12	0.40	E	3.0	3	E
20251030.15	0.40	E	2.7	5	NE
20251030.18	0.44	E	2.6	6	W
20251030.21	0.43	E	2.6	5	NW
20251031.00	0.39	E	2.7	4	SW
20251031.03	0.36	E	2.8	4	SW
20251031.06	0.34	SE	2.8	3	S
20251031.09	0.33	SE	2.8	2	E
20251031.12	0.33	SE	2.9	1	E
20251031.15	0.33	SE	2.8	1	E
20251031.18	0.39	SW	2.8	3	E
20251031.21	0.49	W	3.0	4	E
20251101.00	0.54	W	3.2	6	N
20251101.03	0.60	S	3.2	10	NW
20251101.06	0.75	SE	3.1	13	N
20251101.09	0.92	S	3.3	10	W
20251101.12	0.88	S	3.6	7	SE

Wind condition in the Fort-Shevchenko

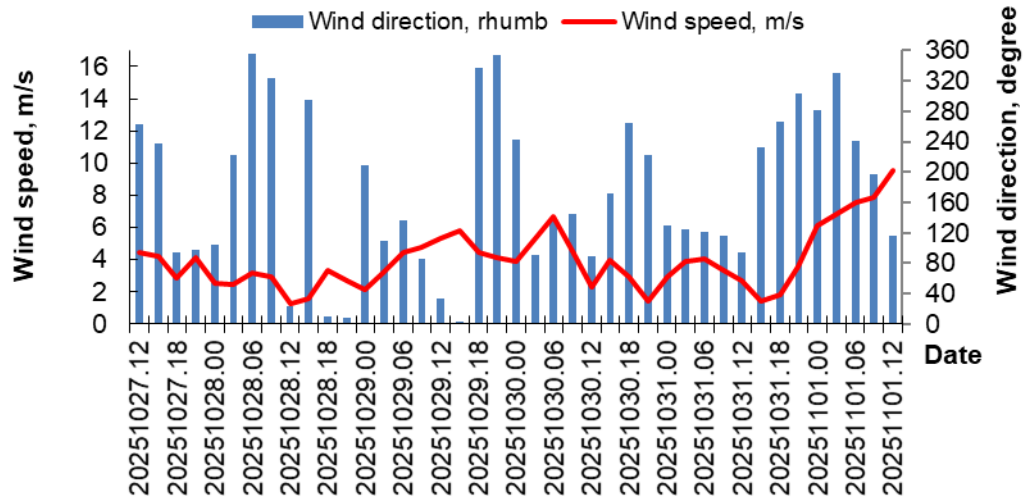


Wave condition in the Fort-Shevchenko

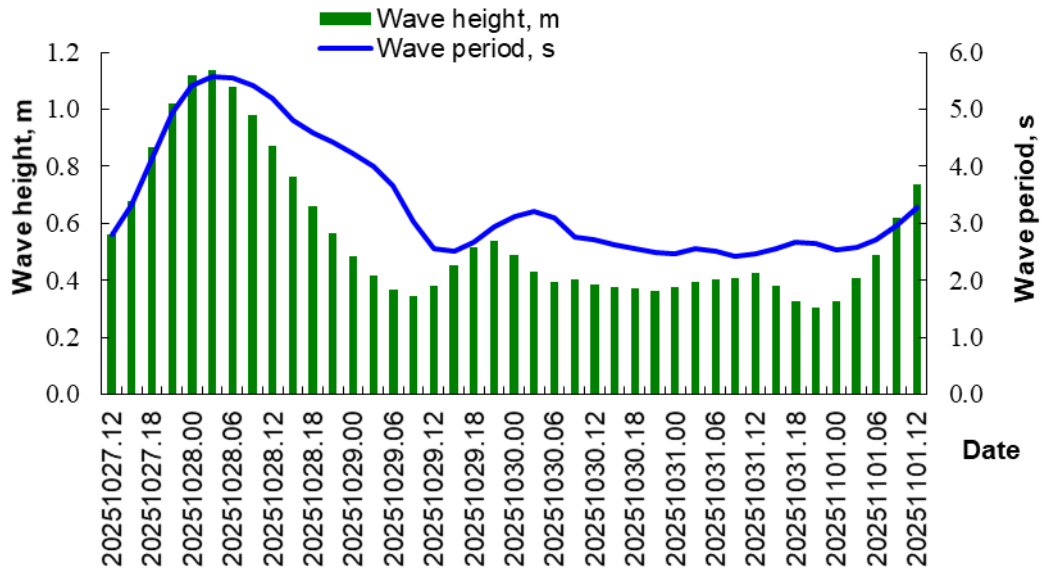


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251027.12	0.57	S	2.6	6	N
20251027.15	0.91	S	3.7	5	W
20251027.18	1.12	S	4.5	3	E
20251027.21	1.18	S	5.1	5	E
20251028.00	1.13	S	5.2	5	E
20251028.03	1.08	S	5.0	5	S
20251028.06	1.00	S	5.1	4	W
20251028.09	0.93	S	5.1	3	N
20251028.12	0.86	S	5.0	1	NW
20251028.15	0.79	S	4.9	3	NW
20251028.18	0.71	S	4.8	3	NW
20251028.21	0.63	S	4.7	3	W
20251029.00	0.56	S	4.6	2	NE
20251029.03	0.49	S	4.5	4	S
20251029.06	0.43	S	4.2	5	SE
20251029.09	0.39	S	3.5	5	E
20251029.12	0.40	SE	2.8	7	NE
20251029.15	0.48	E	2.6	7	N
20251029.18	0.54	E	2.8	5	N
20251029.21	0.55	E	3.1	3	N
20251030.00	0.51	E	3.4	1	N
20251030.03	0.46	E	3.5	3	NE
20251030.06	0.47	E	3.0	5	E
20251030.09	0.47	E	2.8	3	NE
20251030.12	0.40	E	2.9	2	NW
20251030.15	0.37	E	3.0	5	NE
20251030.18	0.40	E	2.6	6	W
20251030.21	0.42	E	2.5	5	NW
20251031.00	0.38	E	2.6	4	SW
20251031.03	0.36	SE	2.7	4	SW
20251031.06	0.34	SE	2.8	3	S
20251031.09	0.33	E	2.7	2	E
20251031.12	0.31	E	2.6	1	E
20251031.15	0.31	E	2.6	1	E
20251031.18	0.37	SW	2.5	3	E
20251031.21	0.47	SW	2.6	4	E
20251101.00	0.55	S	2.7	6	N
20251101.03	0.62	SE	2.8	10	NW
20251101.06	0.67	SE	3.0	13	N
20251101.09	0.73	S	3.2	10	W
20251101.12	0.74	S	3.5	7	SE

Wind condition in the Aktau

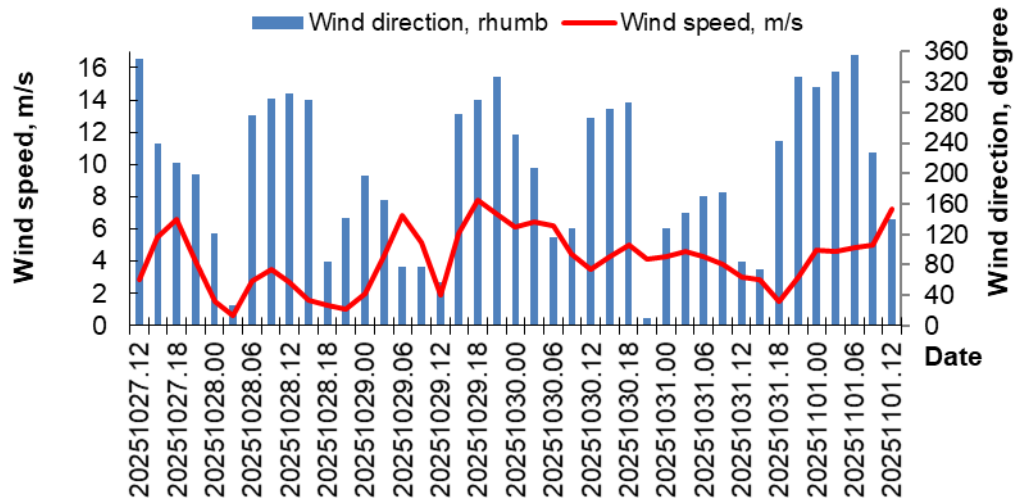


Wave condition in the Aktau

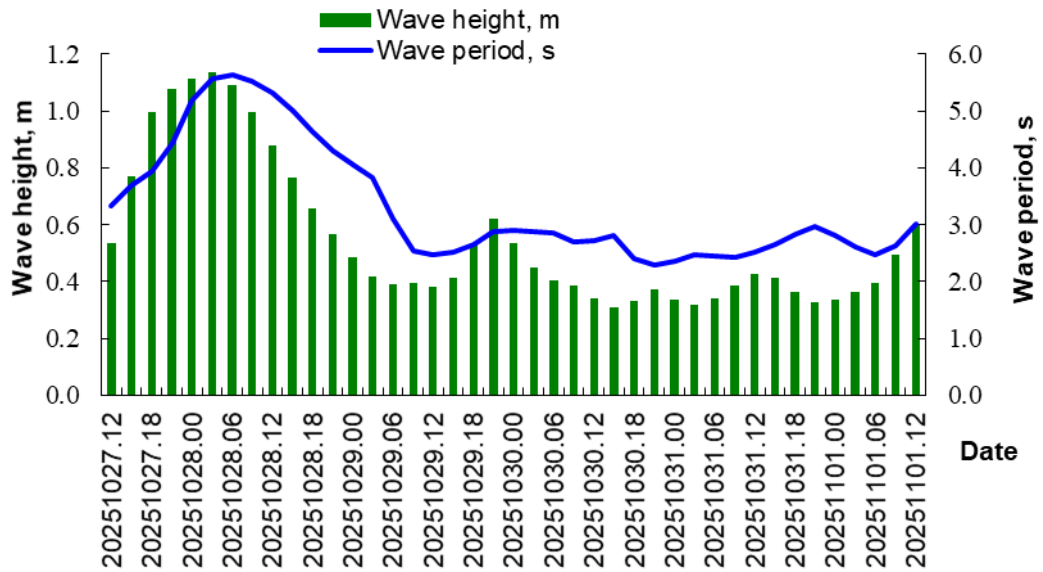


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20251027.12	0.56	S	2.8	4	W
20251027.15	0.68	S	3.3	4	SW
20251027.18	0.87	S	4.1	3	E
20251027.21	1.02	S	4.9	4	E
20251028.00	1.12	S	5.4	3	E
20251028.03	1.14	S	5.6	2	SW
20251028.06	1.08	S	5.6	3	N
20251028.09	0.98	S	5.4	3	NW
20251028.12	0.87	S	5.2	1	NE
20251028.15	0.77	S	4.8	2	NW
20251028.18	0.66	S	4.6	3	N
20251028.21	0.56	S	4.4	3	N
20251029.00	0.48	S	4.2	2	SW
20251029.03	0.42	S	4.0	3	E
20251029.06	0.37	S	3.7	4	SE
20251029.09	0.35	S	3.0	5	E
20251029.12	0.38	E	2.6	5	NE
20251029.15	0.45	E	2.5	6	N
20251029.18	0.51	E	2.7	4	NW
20251029.21	0.54	E	2.9	4	N
20251030.00	0.49	E	3.1	4	SW
20251030.03	0.43	E	3.2	5	E
20251030.06	0.39	E	3.1	7	SE
20251030.09	0.40	E	2.7	5	SE
20251030.12	0.38	NE	2.7	2	E
20251030.15	0.38	NE	2.6	4	S
20251030.18	0.37	NE	2.6	3	W
20251030.21	0.36	NE	2.5	1	SW
20251031.00	0.38	N	2.5	3	SE
20251031.03	0.39	NW	2.6	4	SE
20251031.06	0.40	NW	2.5	4	SE
20251031.09	0.41	NW	2.4	3	SE
20251031.12	0.43	NW	2.5	3	E
20251031.15	0.38	NW	2.5	1	SW
20251031.18	0.33	NW	2.7	2	W
20251031.21	0.30	NW	2.6	4	NW
20251101.00	0.33	NE	2.5	6	W
20251101.03	0.41	E	2.6	7	NW
20251101.06	0.49	SE	2.7	8	SW
20251101.09	0.62	S	3.0	8	S
20251101.12	0.74	SW	3.3	10	SE

Wind condition in the Peschanyi

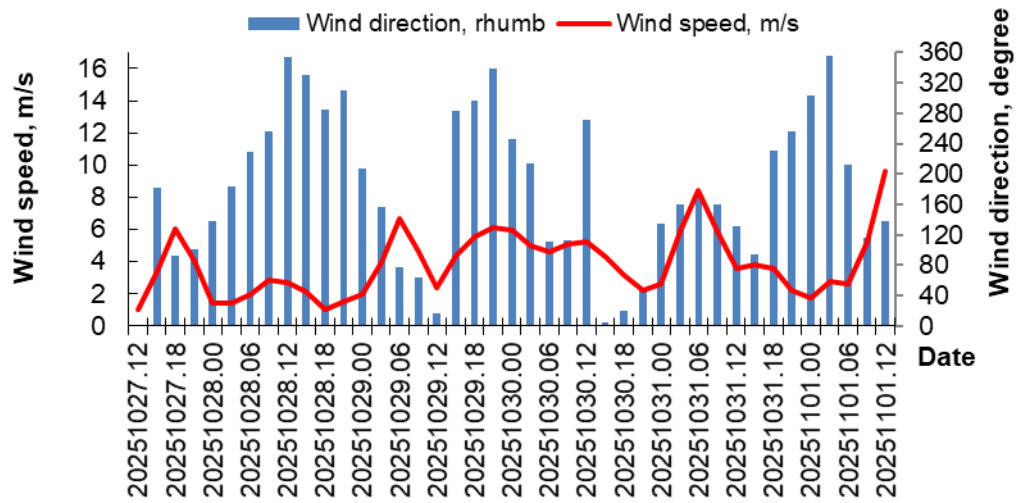


Wave condition in the Peschanyi

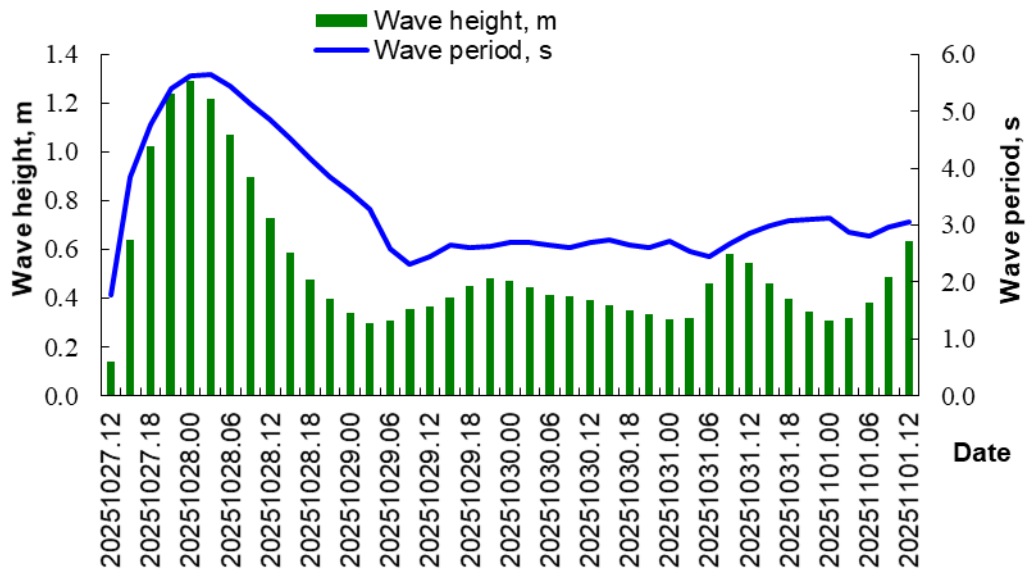


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251027.12	0.54	S	3.3	3	N
20251027.15	0.77	S	3.7	6	SW
20251027.18	1.00	S	3.9	7	SW
20251027.21	1.08	S	4.4	4	S
20251028.00	1.12	S	5.2	2	SE
20251028.03	1.14	S	5.6	1	NE
20251028.06	1.09	S	5.6	3	W
20251028.09	1.00	S	5.5	3	NW
20251028.12	0.88	S	5.3	3	NW
20251028.15	0.76	S	5.0	2	NW
20251028.18	0.66	S	4.6	1	E
20251028.21	0.57	S	4.3	1	SE
20251029.00	0.49	S	4.1	2	S
20251029.03	0.42	S	3.8	4	S
20251029.06	0.39	S	3.1	7	E
20251029.09	0.40	SE	2.5	5	E
20251029.12	0.38	E	2.5	2	NE
20251029.15	0.41	E	2.5	6	W
20251029.18	0.54	E	2.7	8	NW
20251029.21	0.62	E	2.9	7	NW
20251030.00	0.53	E	2.9	6	W
20251030.03	0.45	SE	2.9	6	SW
20251030.06	0.40	SE	2.9	6	SE
20251030.09	0.38	E	2.7	4	SE
20251030.12	0.34	E	2.7	4	W
20251030.15	0.31	E	2.8	4	W
20251030.18	0.33	E	2.4	5	NW
20251030.21	0.37	E	2.3	4	N
20251031.00	0.34	E	2.4	4	SE
20251031.03	0.32	NE	2.5	5	SE
20251031.06	0.34	N	2.5	4	S
20251031.09	0.38	NW	2.4	4	S
20251031.12	0.43	NW	2.5	3	E
20251031.15	0.41	NW	2.6	3	E
20251031.18	0.36	NW	2.8	1	SW
20251031.21	0.33	NW	3.0	3	NW
20251101.00	0.34	N	2.8	5	NW
20251101.03	0.36	NE	2.6	5	NW
20251101.06	0.40	SE	2.5	5	N
20251101.09	0.49	S	2.6	5	SW
20251101.12	0.60	SW	3.0	7	SE

Wind condition in the Fetisovo

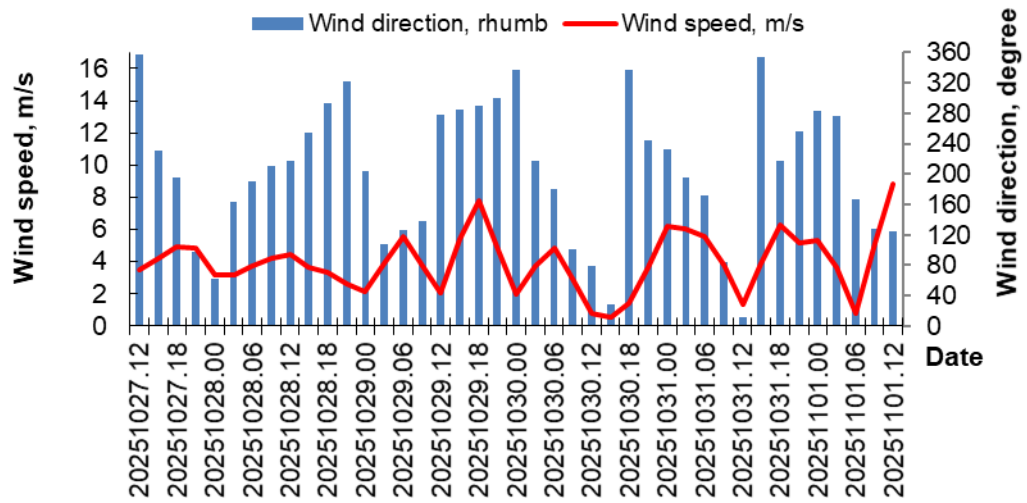


Wave condition in the Fetisovo

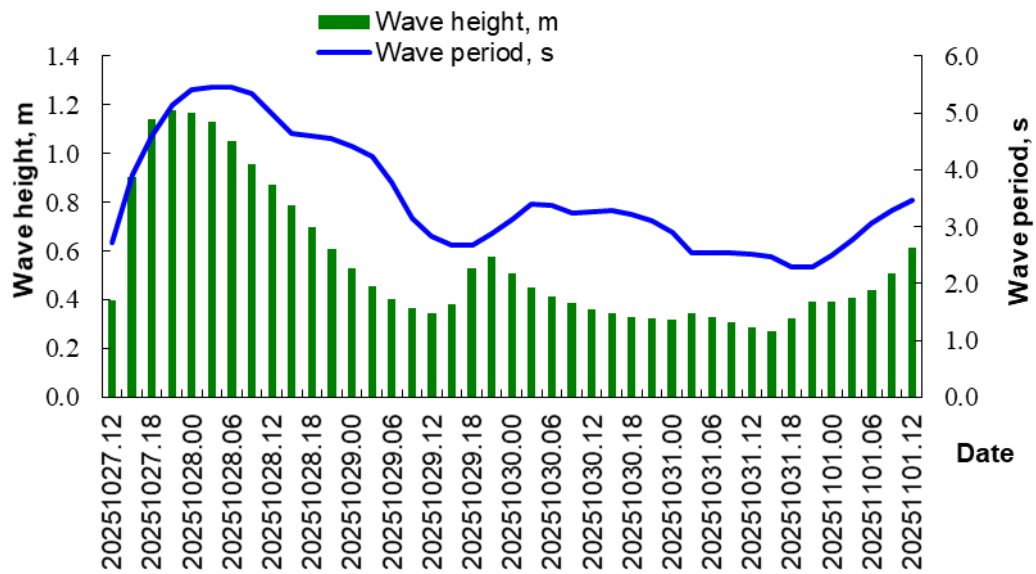


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251027.12	0.14	SE	1.8	1	N
20251027.15	0.64	S	3.8	3	S
20251027.18	1.02	S	4.8	6	E
20251027.21	1.24	S	5.4	4	E
20251028.00	1.29	S	5.6	1	SE
20251028.03	1.22	S	5.6	1	S
20251028.06	1.07	S	5.4	2	SW
20251028.09	0.90	S	5.1	3	W
20251028.12	0.73	S	4.8	3	N
20251028.15	0.59	SW	4.5	2	NW
20251028.18	0.48	SW	4.2	1	W
20251028.21	0.40	SW	3.8	2	NW
20251029.00	0.34	SW	3.6	2	SW
20251029.03	0.30	SW	3.3	4	SE
20251029.06	0.31	SW	2.6	7	E
20251029.09	0.36	NE	2.3	5	NE
20251029.12	0.37	NE	2.5	2	N
20251029.15	0.40	NE	2.6	4	W
20251029.18	0.45	E	2.6	6	NW
20251029.21	0.48	E	2.6	6	N
20251030.00	0.47	SE	2.7	6	SW
20251030.03	0.44	SE	2.7	5	SW
20251030.06	0.41	E	2.6	5	E
20251030.09	0.41	NE	2.6	5	E
20251030.12	0.39	NE	2.7	5	W
20251030.15	0.37	NE	2.7	4	N
20251030.18	0.35	NE	2.6	3	N
20251030.21	0.33	E	2.6	2	NE
20251031.00	0.31	E	2.7	3	SE
20251031.03	0.32	NE	2.5	6	S
20251031.06	0.46	N	2.4	8	S
20251031.09	0.58	N	2.7	6	S
20251031.12	0.54	N	2.8	4	SE
20251031.15	0.46	N	3.0	4	E
20251031.18	0.40	NW	3.1	4	SW
20251031.21	0.34	NW	3.1	2	W
20251101.00	0.31	N	3.1	2	NW
20251101.03	0.32	N	2.9	3	N
20251101.06	0.38	E	2.8	3	SW
20251101.09	0.49	S	3.0	5	SE
20251101.12	0.63	SW	3.1	10	SE

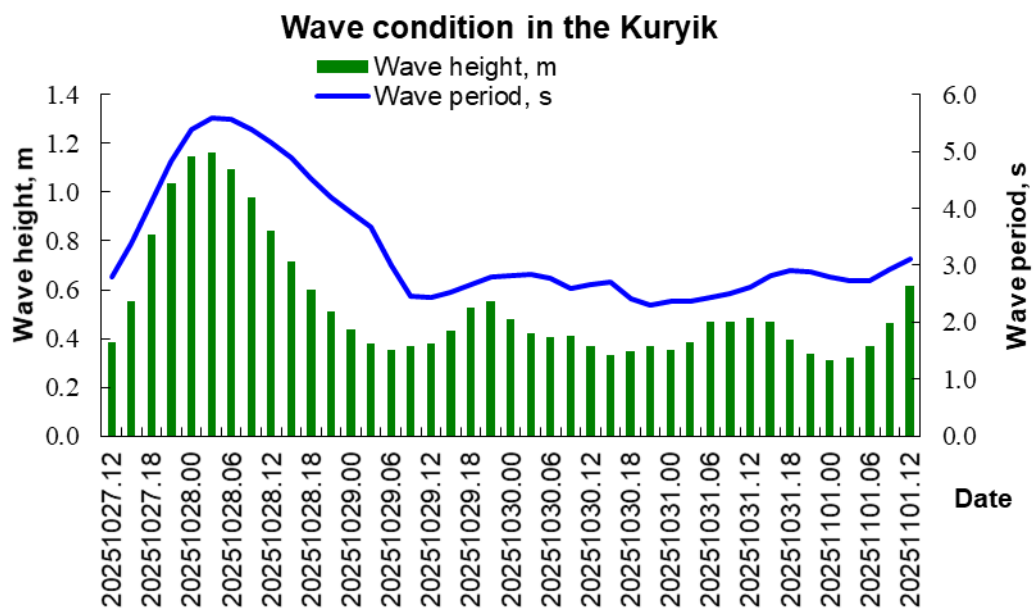
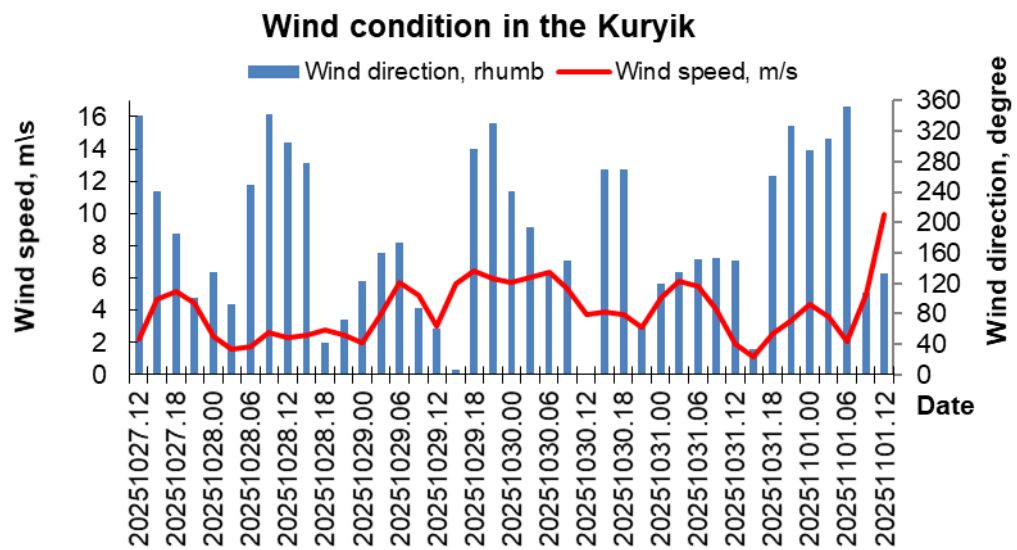
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251027.12	0.40	S	2.7	3	N
20251027.15	0.90	S	3.9	4	SW
20251027.18	1.14	S	4.6	5	S
20251027.21	1.18	S	5.1	5	E
20251028.00	1.17	S	5.4	3	NE
20251028.03	1.13	S	5.5	3	S
20251028.06	1.05	S	5.5	4	S
20251028.09	0.96	S	5.3	4	SW
20251028.12	0.87	S	5.0	4	SW
20251028.15	0.79	S	4.7	4	W
20251028.18	0.70	S	4.6	3	NW
20251028.21	0.61	S	4.6	3	NW
20251029.00	0.53	S	4.4	2	SW
20251029.03	0.46	S	4.2	4	E
20251029.06	0.40	S	3.8	6	SE
20251029.09	0.37	S	3.2	4	SE
20251029.12	0.34	S	2.8	2	W
20251029.15	0.38	E	2.7	5	W
20251029.18	0.53	E	2.7	8	W
20251029.21	0.58	E	2.9	5	NW
20251030.00	0.51	E	3.1	2	NW
20251030.03	0.45	E	3.4	4	SW
20251030.06	0.41	E	3.4	5	S
20251030.09	0.39	E	3.2	3	E
20251030.12	0.36	E	3.3	1	E
20251030.15	0.34	E	3.3	1	NE
20251030.18	0.33	E	3.2	1	NW
20251030.21	0.32	E	3.1	4	SW
20251031.00	0.32	E	2.9	6	SW
20251031.03	0.35	SE	2.5	6	S
20251031.06	0.33	SE	2.5	6	S
20251031.09	0.31	NE	2.5	4	E
20251031.12	0.29	NE	2.5	1	N
20251031.15	0.27	NE	2.5	4	N
20251031.18	0.32	SW	2.3	6	SW
20251031.21	0.39	SW	2.3	5	W
20251101.00	0.39	SW	2.5	5	W
20251101.03	0.41	E	2.8	4	W
20251101.06	0.44	SE	3.0	1	S
20251101.09	0.51	S	3.3	5	SE
20251101.12	0.61	S	3.5	9	SE



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251027.12	0.39	S	2.8	2	N
20251027.15	0.55	S	3.4	5	SW
20251027.18	0.82	S	4.1	5	S
20251027.21	1.03	S	4.8	4	E
20251028.00	1.14	S	5.4	2	SE
20251028.03	1.16	S	5.6	2	E
20251028.06	1.09	S	5.6	2	W
20251028.09	0.98	S	5.4	3	N
20251028.12	0.84	S	5.2	2	NW
20251028.15	0.71	S	4.9	2	W
20251028.18	0.60	S	4.5	3	NE
20251028.21	0.51	S	4.2	2	E
20251029.00	0.43	S	3.9	2	SE
20251029.03	0.38	S	3.7	4	S
20251029.06	0.35	S	3.0	6	S
20251029.09	0.37	E	2.5	5	E
20251029.12	0.38	NE	2.4	3	NE
20251029.15	0.43	E	2.5	6	N
20251029.18	0.53	E	2.7	6	NW
20251029.21	0.55	E	2.8	6	NW
20251030.00	0.48	E	2.8	6	SW
20251030.03	0.42	E	2.8	6	S
20251030.06	0.40	E	2.8	6	SE
20251030.09	0.41	NE	2.6	5	SE
20251030.12	0.37	NE	2.7	4	N
20251030.15	0.33	NE	2.7	4	W
20251030.18	0.35	E	2.4	4	W
20251030.21	0.37	E	2.3	3	NE
20251031.00	0.35	NE	2.4	5	SE
20251031.03	0.38	N	2.4	6	SE
20251031.06	0.47	N	2.4	6	SE
20251031.09	0.47	N	2.5	4	SE
20251031.12	0.48	NW	2.6	2	SE
20251031.15	0.47	NW	2.8	1	NE
20251031.18	0.39	NW	2.9	3	W
20251031.21	0.33	NW	2.9	3	NW
20251101.00	0.31	N	2.8	4	NW
20251101.03	0.32	NE	2.7	4	NW
20251101.06	0.37	E	2.7	2	N
20251101.09	0.46	S	2.9	5	E
20251101.12	0.61	SW	3.1	10	SE

**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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