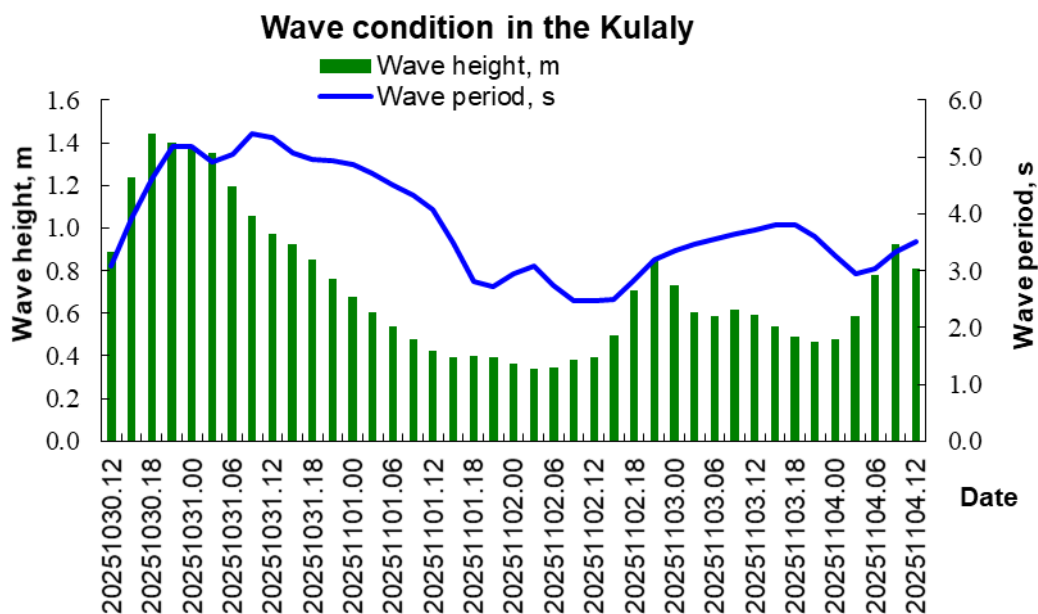
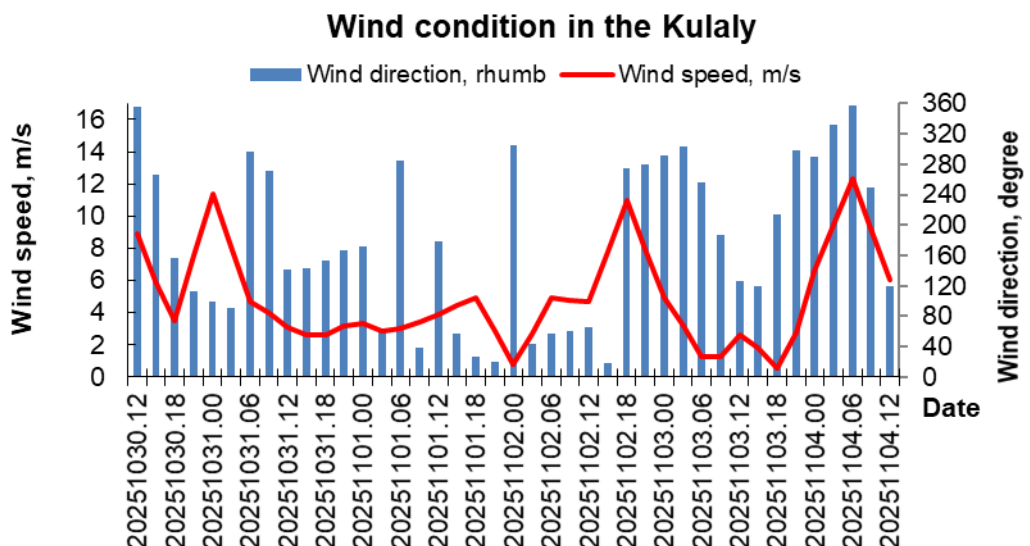




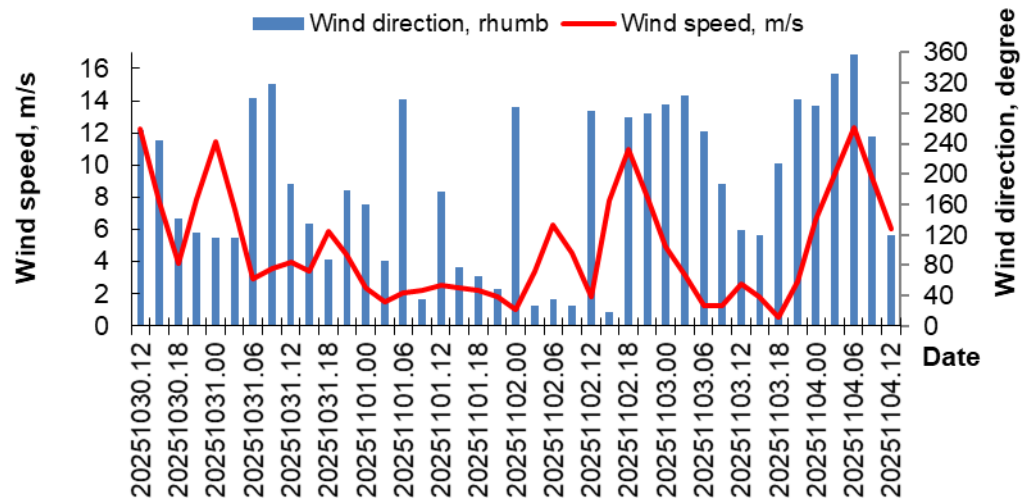
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 30 – November 04, 2025.**

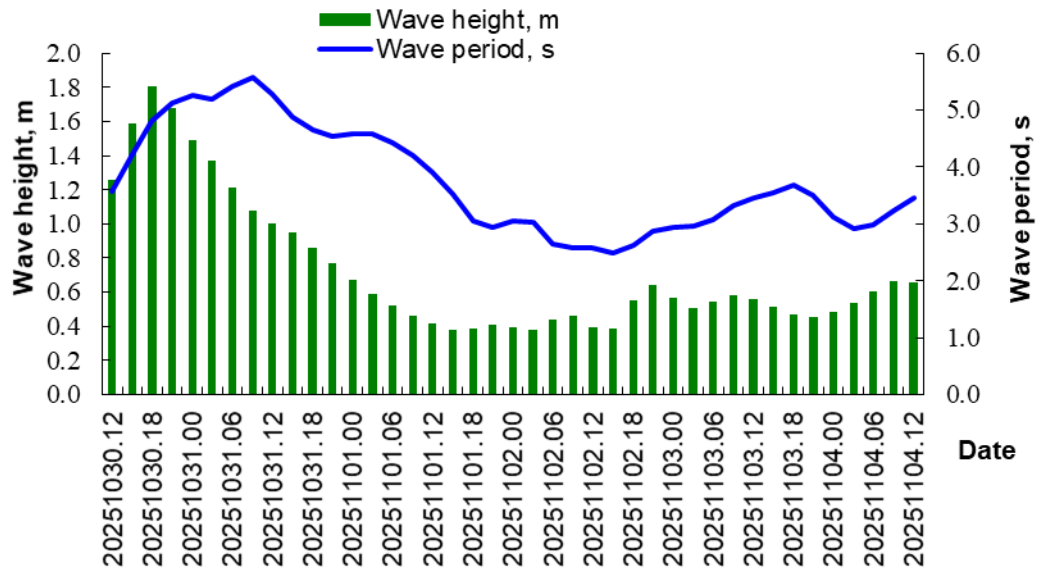


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251030.12	0.89	S	3.1	9	N
20251030.15	1.24	S	3.9	6	W
20251030.18	1.44	S	4.6	3	SE
20251030.21	1.40	S	5.2	8	SE
20251031.00	1.38	S	5.2	11	E
20251031.03	1.35	S	4.9	8	E
20251031.06	1.20	S	5.0	5	NW
20251031.09	1.06	S	5.4	4	W
20251031.12	0.98	S	5.3	3	SE
20251031.15	0.93	S	5.1	3	SE
20251031.18	0.85	S	5.0	3	SE
20251031.21	0.76	S	4.9	3	S
20251101.00	0.68	S	4.9	3	S
20251101.03	0.60	S	4.7	3	NE
20251101.06	0.54	S	4.5	3	W
20251101.09	0.48	S	4.3	3	NE
20251101.12	0.43	S	4.1	4	S
20251101.15	0.39	SE	3.5	4	NE
20251101.18	0.40	SE	2.8	5	NE
20251101.21	0.39	SE	2.7	3	N
20251102.00	0.37	SE	2.9	1	NW
20251102.03	0.34	SE	3.1	3	NE
20251102.06	0.35	E	2.7	5	NE
20251102.09	0.38	E	2.5	5	NE
20251102.12	0.40	E	2.5	5	NE
20251102.15	0.50	E	2.5	8	N
20251102.18	0.71	E	2.8	11	W
20251102.21	0.85	E	3.2	8	W
20251103.00	0.73	E	3.3	5	W
20251103.03	0.60	E	3.5	3	NW
20251103.06	0.59	E	3.6	1	W
20251103.09	0.62	E	3.6	1	S
20251103.12	0.59	E	3.7	3	SE
20251103.15	0.54	E	3.8	2	SE
20251103.18	0.49	E	3.8	1	SW
20251103.21	0.47	NE	3.6	3	NW
20251104.00	0.48	E	3.3	7	W
20251104.03	0.59	SE	3.0	9	NW
20251104.06	0.78	SE	3.0	12	N
20251104.09	0.93	S	3.3	9	W
20251104.12	0.81	S	3.5	6	SE

Wind condition in the Fort-Shevchenko

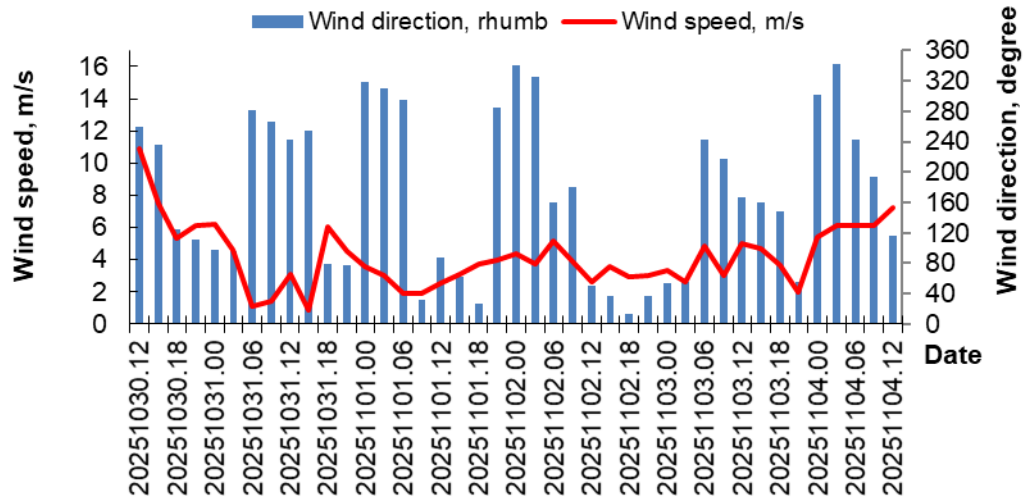


Wave condition in the Fort-Shevchenko

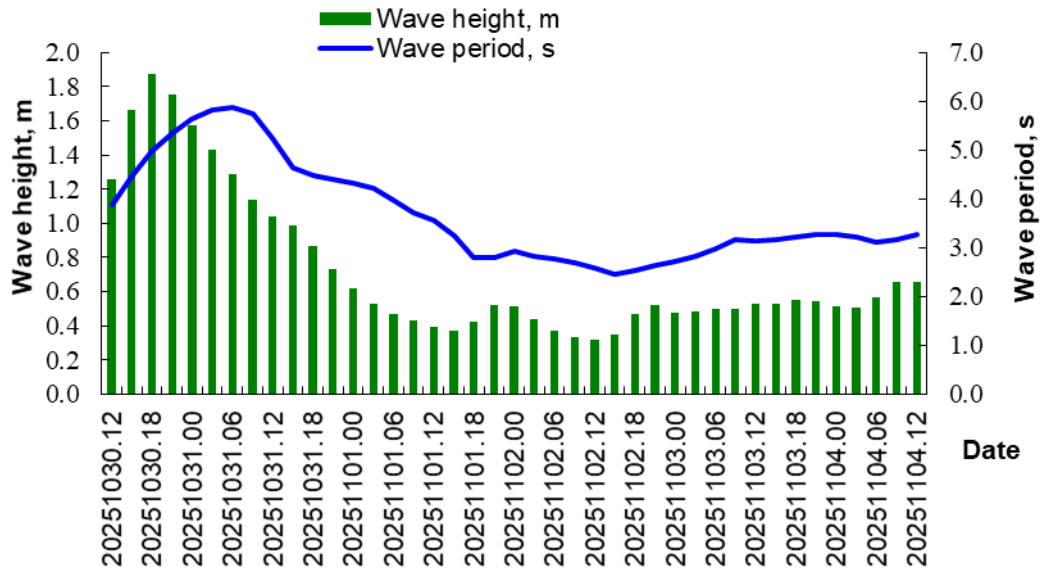


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251030.12	1.26	S	3.6	12	W
20251030.15	1.59	S	4.2	8	SW
20251030.18	1.80	S	4.8	4	SE
20251030.21	1.68	S	5.1	8	SE
20251031.00	1.49	S	5.3	11	SE
20251031.03	1.37	S	5.2	7	SE
20251031.06	1.21	S	5.4	3	NW
20251031.09	1.08	S	5.6	4	NW
20251031.12	1.00	S	5.3	4	S
20251031.15	0.95	S	4.9	3	SE
20251031.18	0.86	S	4.7	6	E
20251031.21	0.77	S	4.5	4	S
20251101.00	0.67	S	4.6	2	S
20251101.03	0.59	S	4.6	2	E
20251101.06	0.52	S	4.4	2	NW
20251101.09	0.46	S	4.2	2	NE
20251101.12	0.42	S	3.9	3	S
20251101.15	0.38	S	3.5	2	E
20251101.18	0.39	SE	3.0	2	NE
20251101.21	0.41	SE	2.9	2	NE
20251102.00	0.40	SE	3.1	1	W
20251102.03	0.38	SE	3.0	3	NE
20251102.06	0.44	E	2.6	6	NE
20251102.09	0.46	E	2.6	5	NE
20251102.12	0.40	E	2.6	2	W
20251102.15	0.39	E	2.5	8	N
20251102.18	0.55	E	2.6	11	W
20251102.21	0.64	E	2.9	8	W
20251103.00	0.56	E	2.9	5	W
20251103.03	0.51	E	3.0	3	NW
20251103.06	0.54	E	3.1	1	W
20251103.09	0.58	E	3.3	1	S
20251103.12	0.56	E	3.4	3	SE
20251103.15	0.51	E	3.6	2	SE
20251103.18	0.47	NE	3.7	1	SW
20251103.21	0.45	NE	3.5	3	NW
20251104.00	0.48	NE	3.1	7	W
20251104.03	0.53	E	2.9	9	NW
20251104.06	0.60	SE	3.0	12	N
20251104.09	0.66	S	3.2	9	W
20251104.12	0.66	S	3.5	6	SE

Wind condition in the Aktau

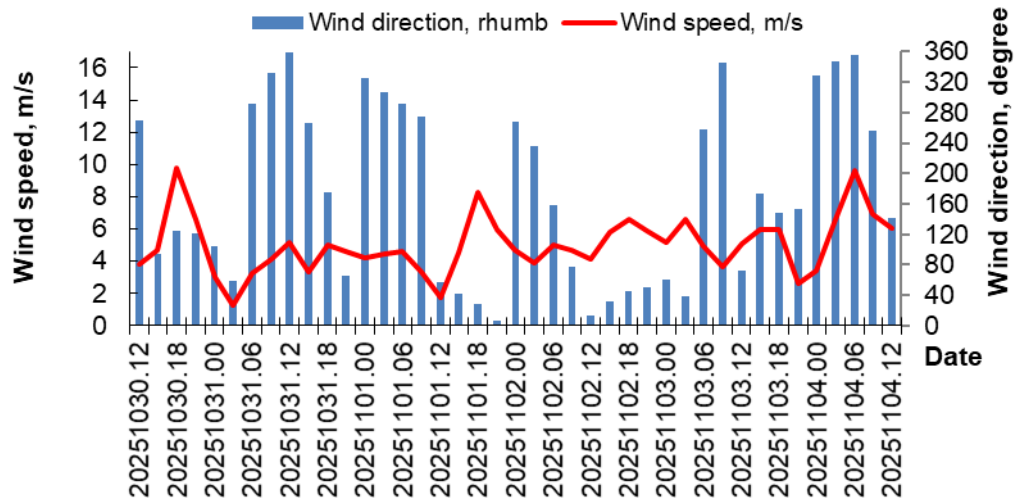


Wave condition in the Aktau

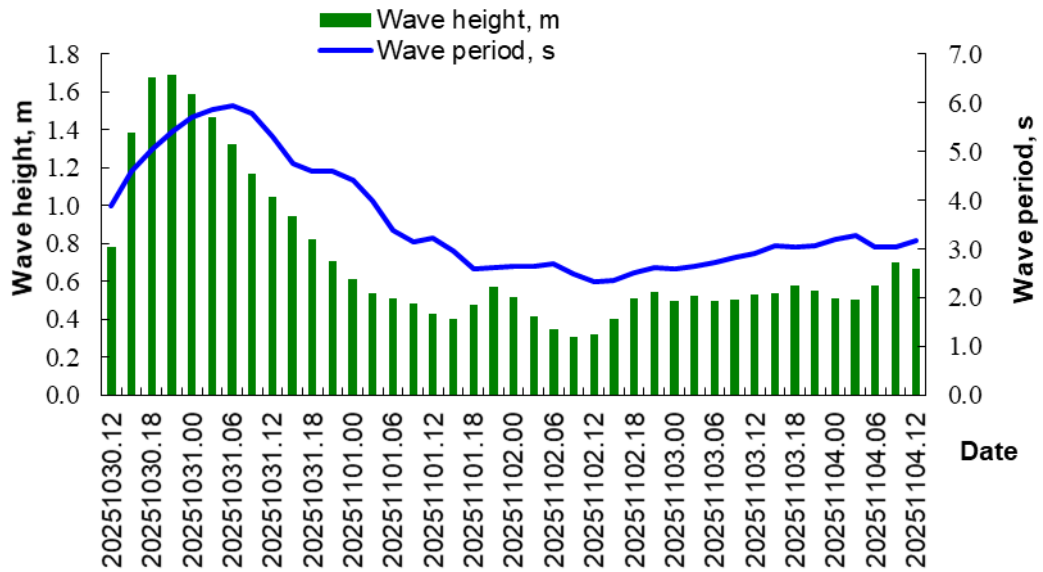


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20251030.12	1.26	S	3.9	11	W
20251030.15	1.66	S	4.5	7	SW
20251030.18	1.87	S	5.0	5	SE
20251030.21	1.76	S	5.3	6	E
20251031.00	1.57	S	5.6	6	E
20251031.03	1.43	S	5.8	5	E
20251031.06	1.29	S	5.9	1	W
20251031.09	1.14	S	5.7	1	W
20251031.12	1.04	S	5.2	3	SW
20251031.15	0.99	S	4.6	1	W
20251031.18	0.87	S	4.5	6	E
20251031.21	0.73	S	4.4	5	E
20251101.00	0.62	S	4.3	4	NW
20251101.03	0.53	S	4.2	3	NW
20251101.06	0.47	S	4.0	2	NW
20251101.09	0.43	S	3.7	2	NE
20251101.12	0.39	S	3.6	3	E
20251101.15	0.37	S	3.2	3	NE
20251101.18	0.42	SE	2.8	4	NE
20251101.21	0.52	E	2.8	4	W
20251102.00	0.51	E	2.9	4	N
20251102.03	0.44	E	2.8	4	NW
20251102.06	0.37	E	2.8	5	S
20251102.09	0.33	E	2.7	4	S
20251102.12	0.32	E	2.6	3	NE
20251102.15	0.35	E	2.5	4	NE
20251102.18	0.47	E	2.5	3	N
20251102.21	0.52	E	2.6	3	NE
20251103.00	0.47	NE	2.7	3	NE
20251103.03	0.48	NE	2.8	3	NE
20251103.06	0.50	NE	3.0	5	SW
20251103.09	0.50	NE	3.2	3	SW
20251103.12	0.52	NE	3.1	5	S
20251103.15	0.53	NE	3.2	5	S
20251103.18	0.55	N	3.2	4	SE
20251103.21	0.54	N	3.3	2	NE
20251104.00	0.51	N	3.3	5	NW
20251104.03	0.51	NE	3.2	6	N
20251104.06	0.57	SE	3.1	6	SW
20251104.09	0.66	S	3.2	6	S
20251104.12	0.66	S	3.3	7	SE

Wind condition in the Peschanyi

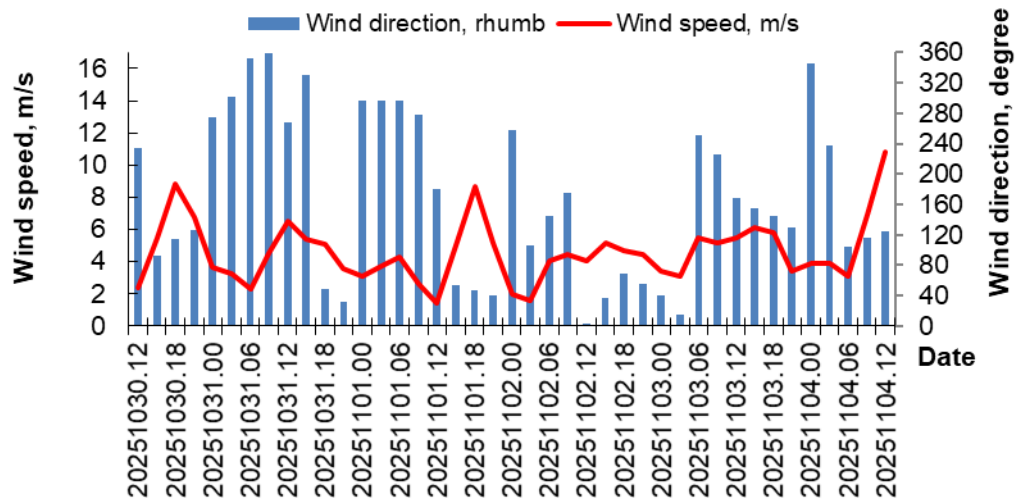


Wave condition in the Peschanyi

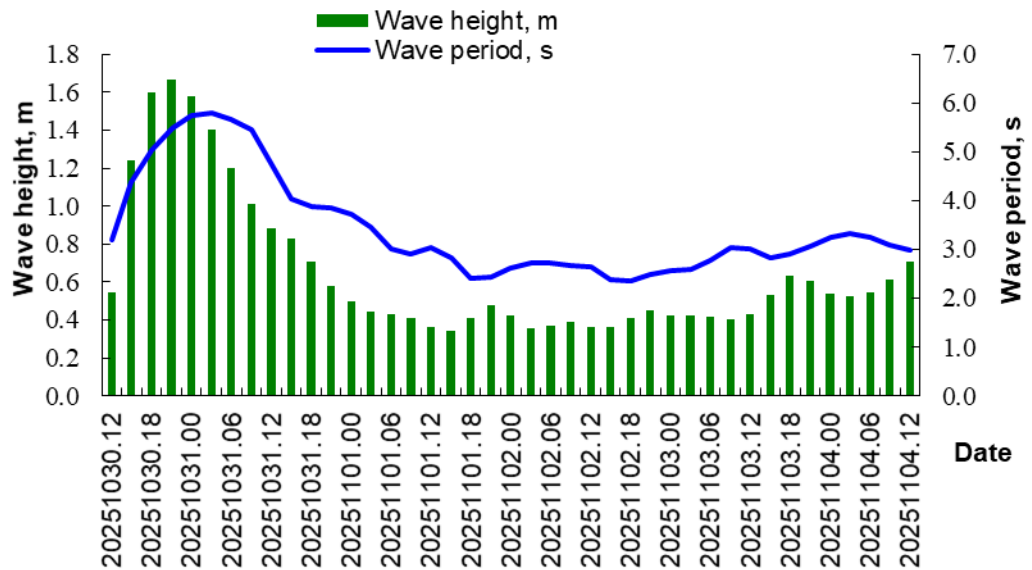


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251030.12	0.78	S	3.9	4	W
20251030.15	1.39	S	4.6	5	E
20251030.18	1.67	S	5.1	10	SE
20251030.21	1.69	S	5.4	7	SE
20251031.00	1.59	S	5.7	3	E
20251031.03	1.47	S	5.9	1	NE
20251031.06	1.32	S	5.9	3	W
20251031.09	1.17	S	5.8	4	NW
20251031.12	1.05	S	5.3	5	N
20251031.15	0.95	S	4.7	3	W
20251031.18	0.82	S	4.6	5	S
20251031.21	0.71	S	4.6	5	NE
20251101.00	0.61	S	4.4	4	NW
20251101.03	0.54	S	4.0	4	NW
20251101.06	0.51	S	3.4	5	W
20251101.09	0.49	S	3.2	3	W
20251101.12	0.43	S	3.2	2	NE
20251101.15	0.40	S	3.0	5	NE
20251101.18	0.47	E	2.6	8	NE
20251101.21	0.57	E	2.6	6	N
20251102.00	0.52	E	2.7	5	W
20251102.03	0.41	SE	2.7	4	SW
20251102.06	0.35	SE	2.7	5	S
20251102.09	0.31	E	2.5	5	E
20251102.12	0.32	E	2.3	4	N
20251102.15	0.40	E	2.4	6	NE
20251102.18	0.51	NE	2.5	7	NE
20251102.21	0.54	NE	2.6	6	NE
20251103.00	0.50	NE	2.6	5	NE
20251103.03	0.52	NE	2.6	7	NE
20251103.06	0.50	NE	2.7	5	W
20251103.09	0.51	NE	2.8	4	N
20251103.12	0.53	NE	2.9	5	E
20251103.15	0.54	NE	3.1	6	S
20251103.18	0.58	N	3.0	6	SE
20251103.21	0.55	N	3.1	3	SE
20251104.00	0.51	NE	3.2	3	NW
20251104.03	0.50	NE	3.3	7	N
20251104.06	0.58	SE	3.0	10	N
20251104.09	0.70	SE	3.1	7	W
20251104.12	0.67	S	3.2	6	SE

Wind condition in the Fetisovo

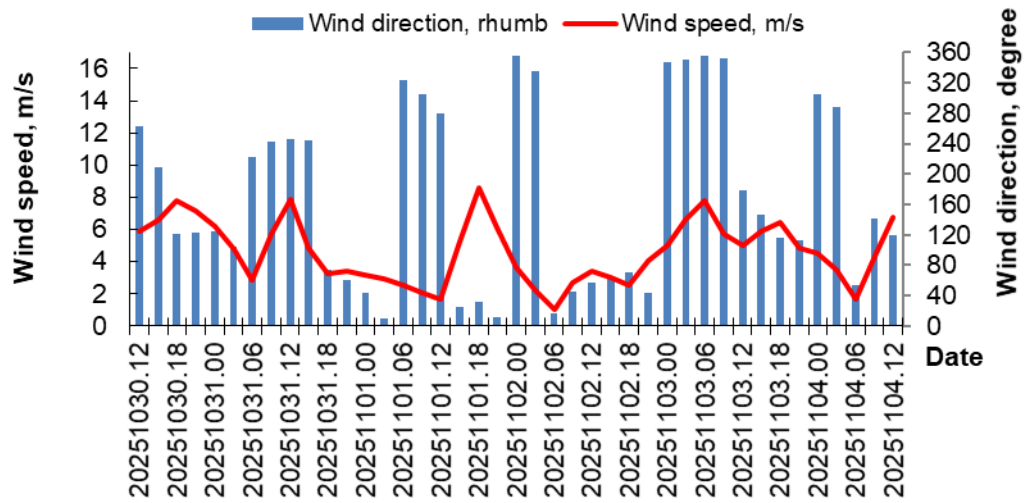


Wave condition in the Fetisovo

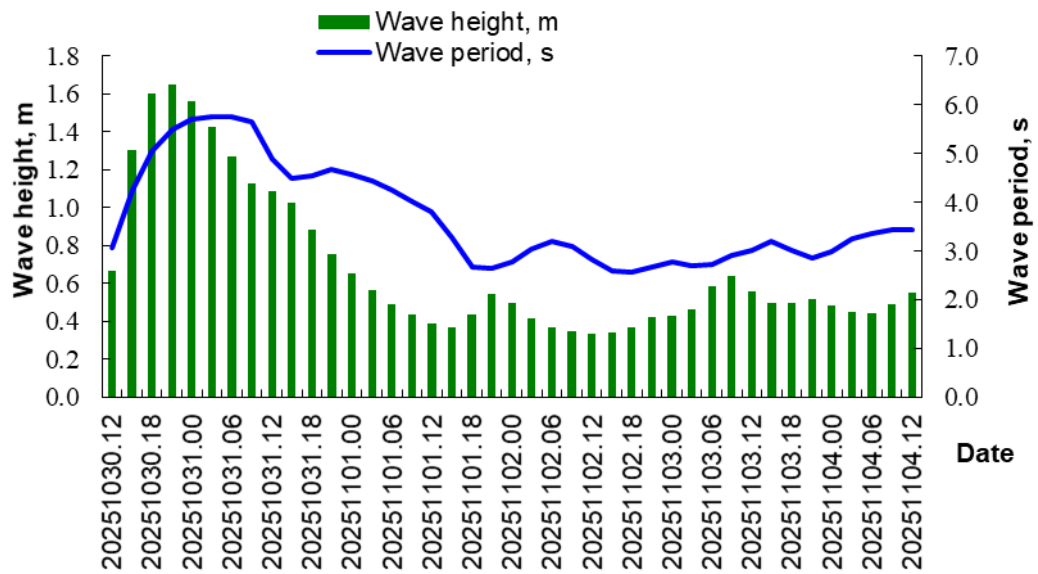


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251030.12	0.55	S	3.2	2	SW
20251030.15	1.24	S	4.4	6	E
20251030.18	1.60	S	5.0	9	SE
20251030.21	1.67	S	5.5	7	SE
20251031.00	1.58	S	5.8	4	W
20251031.03	1.40	S	5.8	3	NW
20251031.06	1.20	S	5.7	2	N
20251031.09	1.01	S	5.5	5	N
20251031.12	0.88	S	4.8	7	W
20251031.15	0.83	S	4.0	5	NW
20251031.18	0.70	S	3.9	5	NE
20251031.21	0.58	S	3.9	4	NE
20251101.00	0.49	S	3.7	3	NW
20251101.03	0.44	S	3.5	4	NW
20251101.06	0.43	S	3.0	4	NW
20251101.09	0.41	S	2.9	3	W
20251101.12	0.36	S	3.0	1	S
20251101.15	0.34	S	2.8	5	NE
20251101.18	0.41	E	2.4	9	NE
20251101.21	0.48	NE	2.4	5	NE
20251102.00	0.42	NE	2.6	2	W
20251102.03	0.36	NE	2.7	2	E
20251102.06	0.37	NE	2.7	4	SE
20251102.09	0.39	NE	2.7	4	S
20251102.12	0.36	NE	2.6	4	N
20251102.15	0.36	NE	2.4	5	NE
20251102.18	0.41	NE	2.4	5	E
20251102.21	0.45	NE	2.5	4	NE
20251103.00	0.43	NE	2.6	3	NE
20251103.03	0.42	NE	2.6	3	N
20251103.06	0.42	NE	2.8	6	W
20251103.09	0.40	NE	3.0	5	SW
20251103.12	0.43	NE	3.0	6	S
20251103.15	0.53	N	2.8	6	SE
20251103.18	0.63	N	2.9	6	SE
20251103.21	0.60	N	3.1	3	SE
20251104.00	0.54	N	3.2	4	N
20251104.03	0.52	NE	3.3	4	SW
20251104.06	0.55	E	3.2	3	E
20251104.09	0.61	SE	3.1	7	SE
20251104.12	0.71	NW	3.0	11	SE

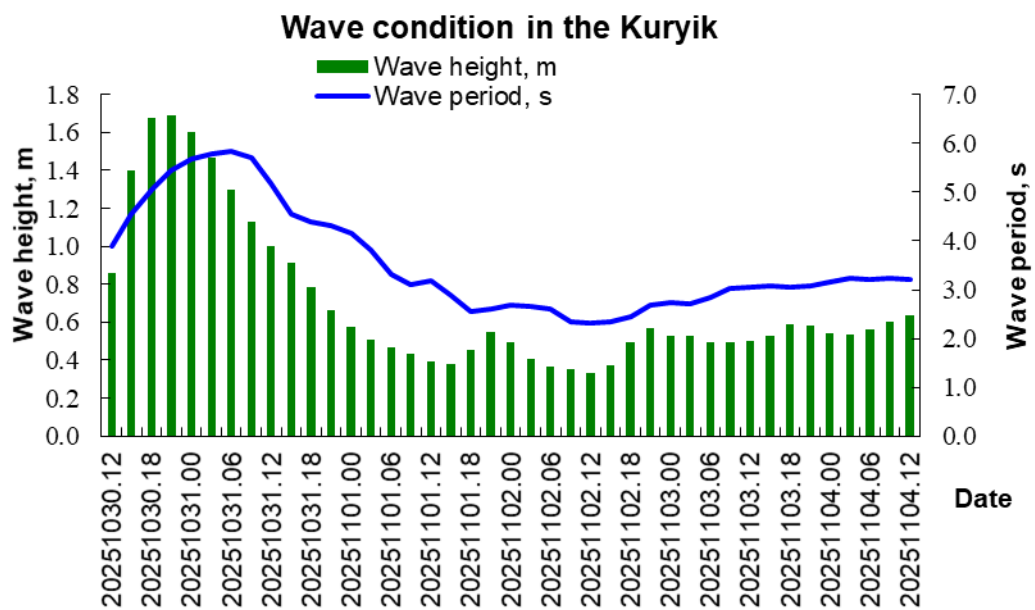
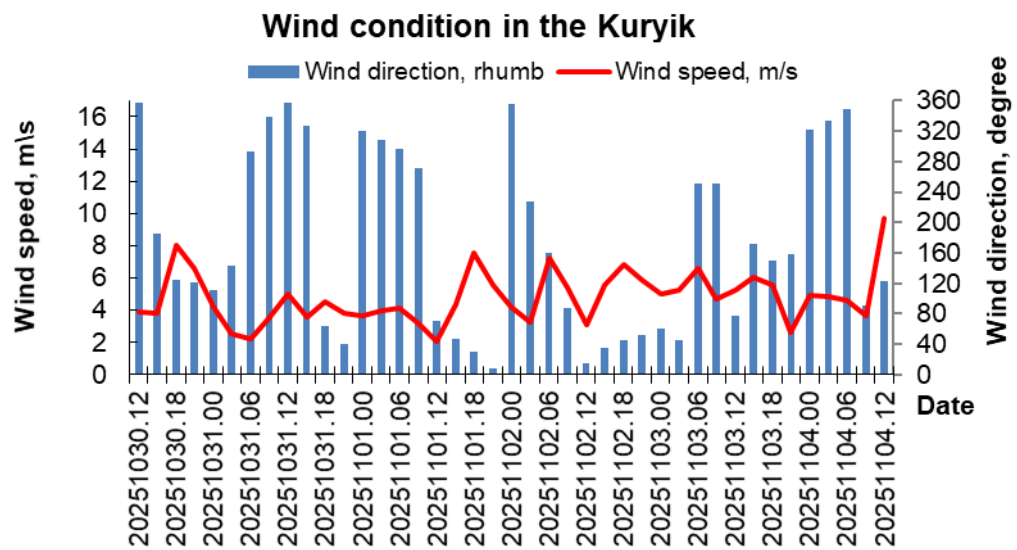
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251030.12	0.66	S	3.1	6	W
20251030.15	1.30	S	4.3	7	SW
20251030.18	1.60	S	5.0	8	SE
20251030.21	1.65	S	5.5	7	SE
20251031.00	1.56	S	5.7	6	SE
20251031.03	1.43	S	5.8	5	E
20251031.06	1.27	S	5.8	3	SW
20251031.09	1.13	S	5.6	6	SW
20251031.12	1.08	S	4.9	8	SW
20251031.15	1.02	S	4.5	5	SW
20251031.18	0.88	S	4.6	3	E
20251031.21	0.75	S	4.7	3	NE
20251101.00	0.65	S	4.6	3	NE
20251101.03	0.56	S	4.4	3	N
20251101.06	0.49	S	4.2	3	NW
20251101.09	0.43	S	4.0	2	NW
20251101.12	0.39	S	3.8	2	W
20251101.15	0.37	S	3.3	5	NE
20251101.18	0.44	SE	2.7	9	NE
20251101.21	0.54	E	2.6	6	N
20251102.00	0.50	E	2.8	4	N
20251102.03	0.42	E	3.0	2	NW
20251102.06	0.37	E	3.2	1	N
20251102.09	0.35	E	3.1	3	NE
20251102.12	0.34	E	2.8	3	NE
20251102.15	0.34	E	2.6	3	NE
20251102.18	0.37	E	2.6	3	E
20251102.21	0.42	E	2.7	4	NE
20251103.00	0.43	E	2.8	5	N
20251103.03	0.46	SE	2.7	7	N
20251103.06	0.58	SE	2.7	8	N
20251103.09	0.64	SE	2.9	6	N
20251103.12	0.56	SE	3.0	5	S
20251103.15	0.49	NE	3.2	6	SE
20251103.18	0.50	NE	3.0	6	SE
20251103.21	0.52	N	2.9	5	SE
20251104.00	0.49	N	3.0	5	NW
20251104.03	0.45	NE	3.3	4	W
20251104.06	0.44	E	3.4	2	NE
20251104.09	0.49	SE	3.4	4	SE
20251104.12	0.55	S	3.4	7	SE



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251030.12	0.86	S	3.9	4	N
20251030.15	1.40	S	4.5	4	S
20251030.18	1.68	S	5.0	8	SE
20251030.21	1.69	S	5.4	7	SE
20251031.00	1.60	S	5.7	4	E
20251031.03	1.47	S	5.8	3	SE
20251031.06	1.30	S	5.8	2	NW
20251031.09	1.13	S	5.7	3	N
20251031.12	1.00	S	5.2	5	N
20251031.15	0.92	S	4.6	4	NW
20251031.18	0.78	S	4.4	5	NE
20251031.21	0.66	S	4.3	4	NE
20251101.00	0.57	S	4.1	4	NW
20251101.03	0.51	S	3.8	4	NW
20251101.06	0.47	S	3.3	4	NW
20251101.09	0.44	S	3.1	3	W
20251101.12	0.39	S	3.2	2	E
20251101.15	0.38	S	2.9	4	NE
20251101.18	0.45	E	2.5	8	NE
20251101.21	0.55	E	2.6	6	N
20251102.00	0.50	E	2.7	4	N
20251102.03	0.41	E	2.7	3	SW
20251102.06	0.37	E	2.6	7	S
20251102.09	0.35	NE	2.3	5	E
20251102.12	0.33	NE	2.3	3	N
20251102.15	0.37	NE	2.3	6	NE
20251102.18	0.49	NE	2.4	7	NE
20251102.21	0.57	NE	2.7	6	NE
20251103.00	0.53	NE	2.7	5	NE
20251103.03	0.53	NE	2.7	5	NE
20251103.06	0.50	NE	2.8	7	W
20251103.09	0.50	NE	3.0	5	W
20251103.12	0.50	NE	3.1	5	E
20251103.15	0.53	NE	3.1	6	S
20251103.18	0.59	N	3.0	6	SE
20251103.21	0.58	N	3.1	3	S
20251104.00	0.54	NE	3.2	5	NW
20251104.03	0.53	NE	3.2	5	NW
20251104.06	0.56	E	3.2	5	N
20251104.09	0.60	SE	3.2	4	E
20251104.12	0.64	S	3.2	10	SE

**Calculation characteristics were obtained using the SWAN wave model, adapted in RSE «Kazhydromet» to the conditions of the Caspian Sea.*

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Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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