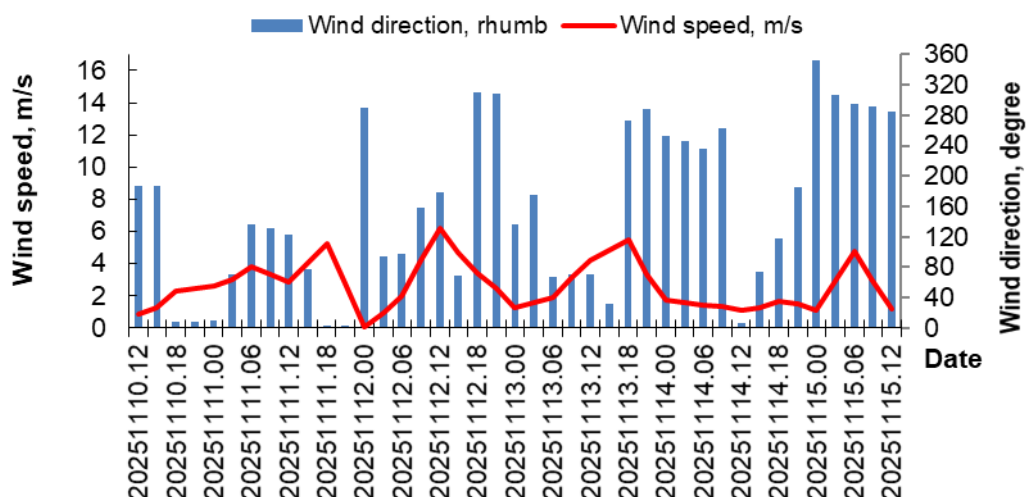




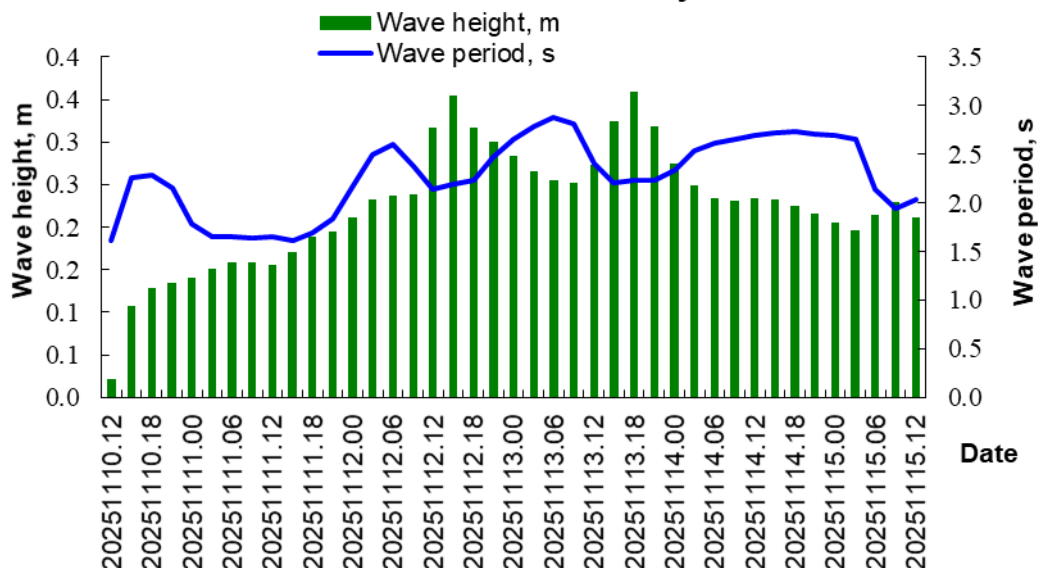
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period November 10 – 15, 2025.**

Wind condition in the Kulaly

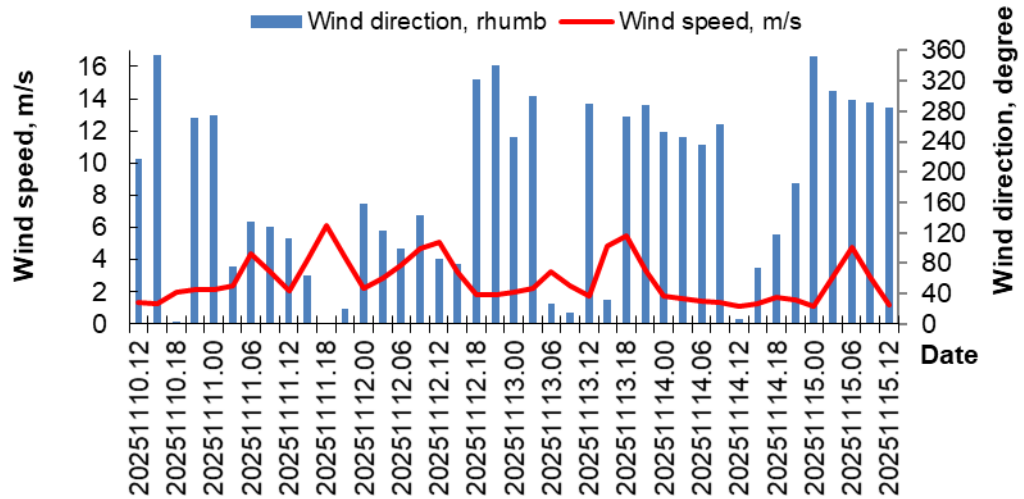


Wave condition in the Kulaly

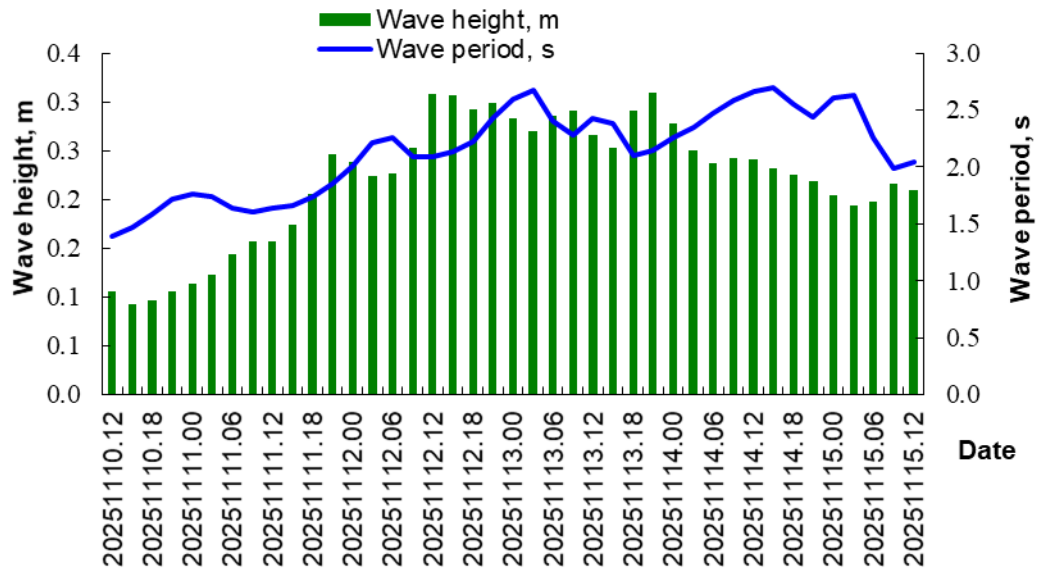


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251110.12	0.02	W	1.6	1	S
20251110.15	0.11	NW	2.3	1	S
20251110.18	0.13	NW	2.3	2	N
20251110.21	0.13	NW	2.1	2	N
20251111.00	0.14	NW	1.8	3	N
20251111.03	0.15	N	1.7	3	E
20251111.06	0.16	N	1.7	4	SE
20251111.09	0.16	N	1.6	3	SE
20251111.12	0.16	NW	1.6	3	SE
20251111.15	0.17	NW	1.6	4	E
20251111.18	0.19	N	1.7	5	N
20251111.21	0.20	NE	1.8	3	N
20251112.00	0.21	NE	2.2	0	W
20251112.03	0.23	NE	2.5	1	E
20251112.06	0.24	NE	2.6	2	E
20251112.09	0.24	N	2.4	4	S
20251112.12	0.32	N	2.1	6	S
20251112.15	0.36	N	2.2	5	E
20251112.18	0.32	NE	2.2	3	NW
20251112.21	0.30	NE	2.5	2	NW
20251113.00	0.28	E	2.7	1	SE
20251113.03	0.27	E	2.8	2	S
20251113.06	0.26	E	2.9	2	NE
20251113.09	0.25	E	2.8	3	E
20251113.12	0.27	NE	2.4	4	E
20251113.15	0.32	NE	2.2	5	NE
20251113.18	0.36	NE	2.2	5	W
20251113.21	0.32	E	2.2	3	W
20251114.00	0.27	E	2.3	2	W
20251114.03	0.25	E	2.5	2	SW
20251114.06	0.23	E	2.6	1	SW
20251114.09	0.23	E	2.7	1	W
20251114.12	0.23	NE	2.7	1	N
20251114.15	0.23	NE	2.7	1	E
20251114.18	0.23	NE	2.7	2	SE
20251114.21	0.22	NE	2.7	1	S
20251115.00	0.21	NE	2.7	1	N
20251115.03	0.20	NE	2.7	3	NW
20251115.06	0.21	E	2.1	5	NW
20251115.09	0.23	E	1.9	3	W
20251115.12	0.21	E	2.0	1	W

Wind condition in the Fort-Shevchenko

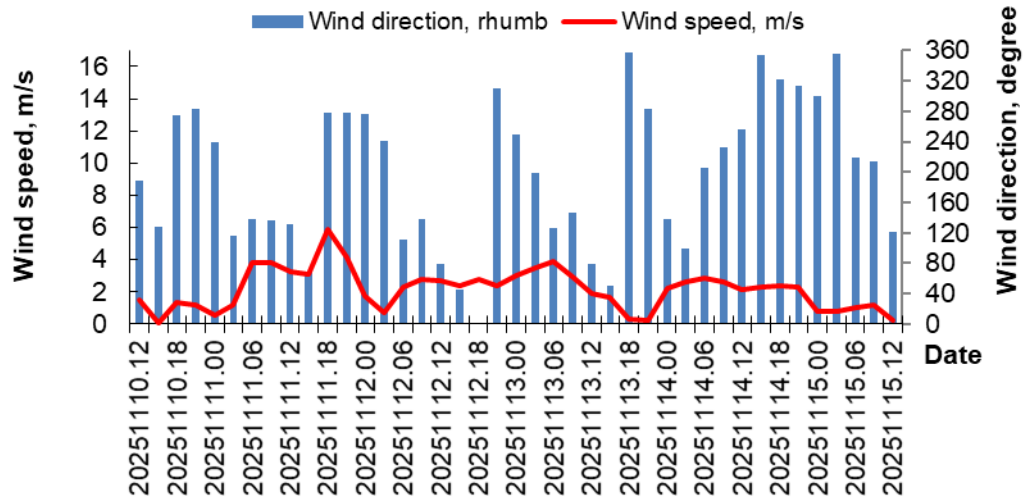


Wave condition in the Fort-Shevchenko

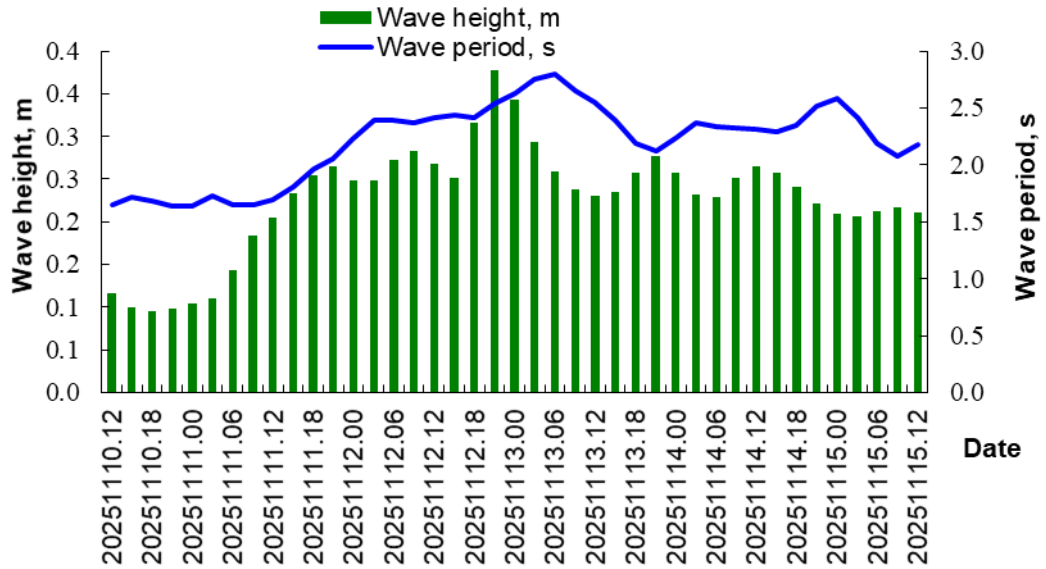


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251110.12	0.11	SW	1.4	1	SW
20251110.15	0.09	SW	1.5	1	N
20251110.18	0.10	W	1.6	2	N
20251110.21	0.11	NW	1.7	2	W
20251111.00	0.11	NW	1.8	2	W
20251111.03	0.12	N	1.7	2	E
20251111.06	0.14	NW	1.6	4	SE
20251111.09	0.16	NW	1.6	3	SE
20251111.12	0.16	NW	1.6	2	SE
20251111.15	0.17	NW	1.7	4	NE
20251111.18	0.21	N	1.7	6	N
20251111.21	0.25	NE	1.8	4	N
20251112.00	0.24	NE	2.0	2	S
20251112.03	0.22	NE	2.2	3	SE
20251112.06	0.23	NE	2.3	4	E
20251112.09	0.25	N	2.1	5	SE
20251112.12	0.31	N	2.1	5	E
20251112.15	0.31	N	2.1	3	E
20251112.18	0.29	NE	2.2	2	NW
20251112.21	0.30	E	2.4	2	N
20251113.00	0.28	E	2.6	2	SW
20251113.03	0.27	E	2.7	2	NW
20251113.06	0.29	E	2.4	3	NE
20251113.09	0.29	E	2.3	2	N
20251113.12	0.27	E	2.4	2	W
20251113.15	0.25	E	2.4	5	NE
20251113.18	0.29	E	2.1	5	W
20251113.21	0.31	E	2.1	3	W
20251114.00	0.28	E	2.3	2	W
20251114.03	0.25	E	2.3	2	SW
20251114.06	0.24	E	2.5	1	SW
20251114.09	0.24	NE	2.6	1	W
20251114.12	0.24	NE	2.7	1	N
20251114.15	0.23	NE	2.7	1	E
20251114.18	0.23	NE	2.6	2	SE
20251114.21	0.22	NE	2.4	1	S
20251115.00	0.20	NE	2.6	1	N
20251115.03	0.19	NE	2.6	3	NW
20251115.06	0.20	NE	2.3	5	NW
20251115.09	0.22	E	2.0	3	W
20251115.12	0.21	E	2.0	1	W

Wind condition in the Aktau

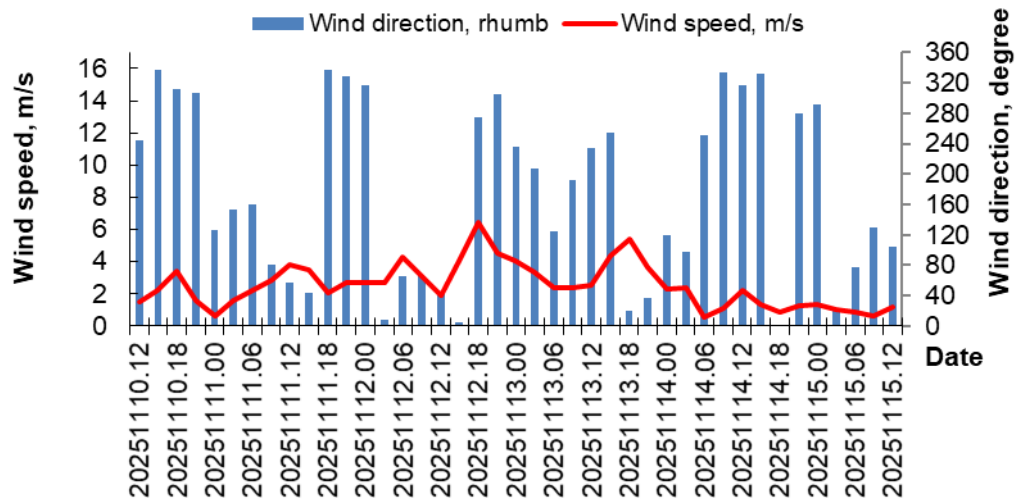


Wave condition in the Aktau

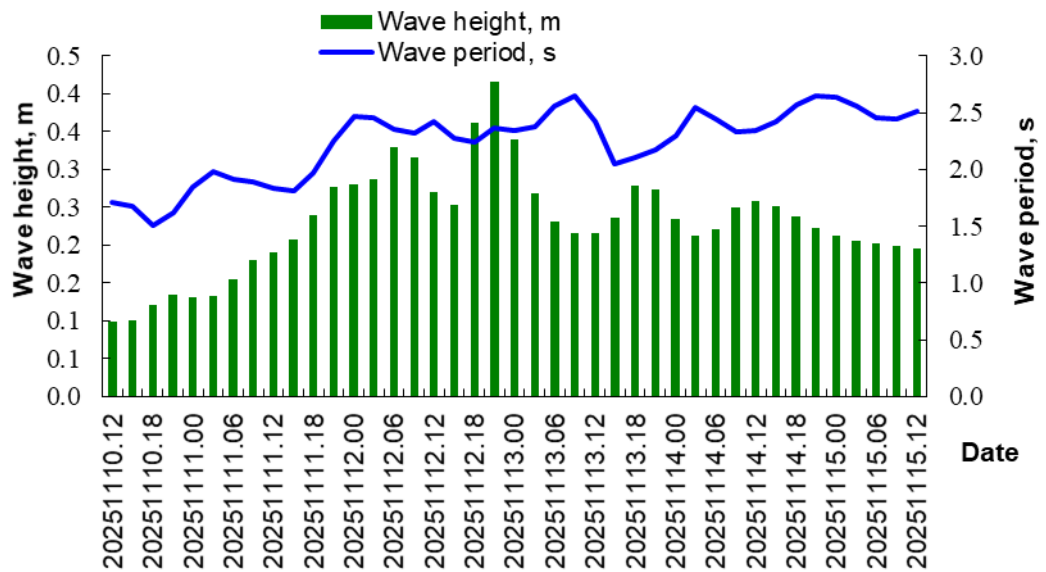


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20251110.12	0.12	SW	1.6	2	S
20251110.15	0.10	SW	1.7	0	SE
20251110.18	0.10	SW	1.7	1	W
20251110.21	0.10	SW	1.6	1	W
20251111.00	0.10	SW	1.6	1	SW
20251111.03	0.11	SW	1.7	1	SE
20251111.06	0.14	W	1.6	4	SE
20251111.09	0.18	NW	1.7	4	SE
20251111.12	0.20	NW	1.7	3	SE
20251111.15	0.23	NW	1.8	3	E
20251111.18	0.25	N	2.0	6	W
20251111.21	0.26	NE	2.1	4	W
20251112.00	0.25	NE	2.2	2	W
20251112.03	0.25	E	2.4	1	SW
20251112.06	0.27	E	2.4	2	E
20251112.09	0.28	NE	2.4	3	SE
20251112.12	0.27	NE	2.4	3	E
20251112.15	0.25	NE	2.4	2	NE
20251112.18	0.32	E	2.4	3	N
20251112.21	0.38	E	2.5	2	NW
20251113.00	0.34	E	2.6	3	W
20251113.03	0.29	E	2.7	3	S
20251113.06	0.26	E	2.8	4	SE
20251113.09	0.24	E	2.7	3	SE
20251113.12	0.23	NE	2.5	2	E
20251113.15	0.23	NE	2.4	2	NE
20251113.18	0.26	NE	2.2	0	N
20251113.21	0.28	NE	2.1	0	W
20251114.00	0.26	NE	2.2	2	SE
20251114.03	0.23	NE	2.4	3	E
20251114.06	0.23	NE	2.3	3	SW
20251114.09	0.25	N	2.3	3	SW
20251114.12	0.27	N	2.3	2	W
20251114.15	0.26	N	2.3	2	N
20251114.18	0.24	NE	2.3	2	NW
20251114.21	0.22	NE	2.5	2	NW
20251115.00	0.21	NE	2.6	1	NW
20251115.03	0.21	NE	2.4	1	N
20251115.06	0.21	E	2.2	1	SW
20251115.09	0.22	E	2.1	1	SW
20251115.12	0.21	E	2.2	0	SE

Wind condition in the Peschanyi

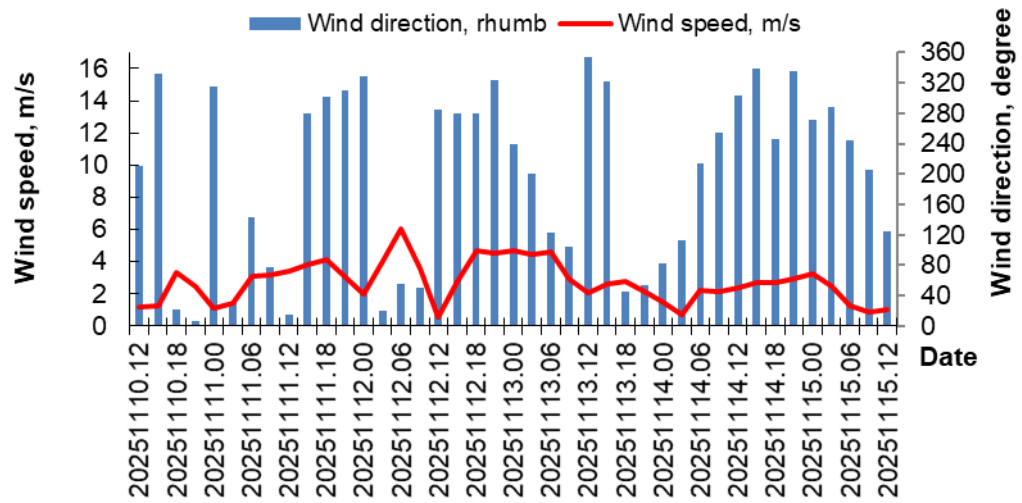


Wave condition in the Peschanyi

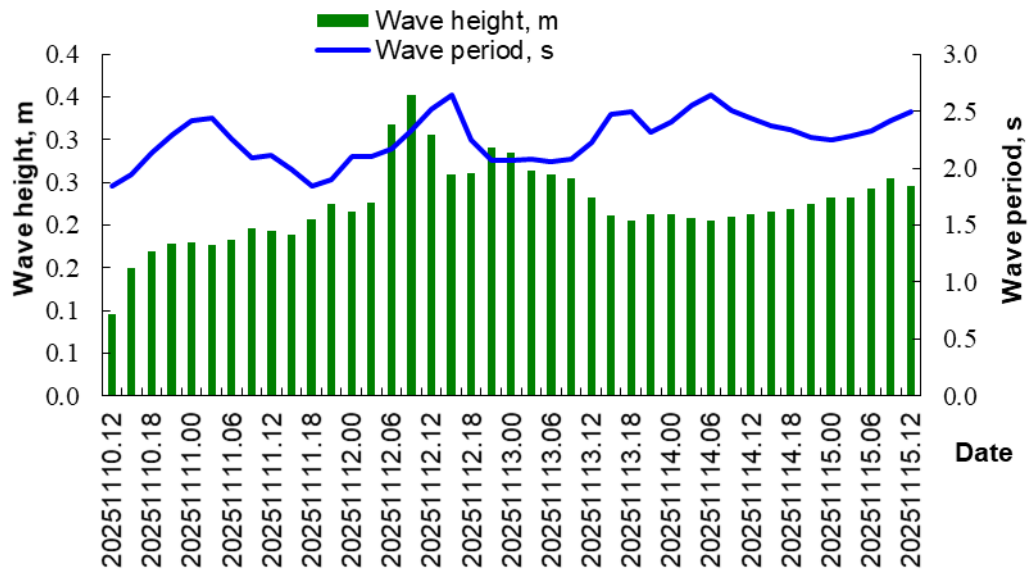


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251110.12	0.10	SW	1.7	2	SW
20251110.15	0.10	SW	1.7	2	NW
20251110.18	0.12	SW	1.5	3	NW
20251110.21	0.13	S	1.6	2	NW
20251111.00	0.13	SW	1.8	1	SE
20251111.03	0.13	W	2.0	2	SE
20251111.06	0.16	W	1.9	2	S
20251111.09	0.18	NW	1.9	3	E
20251111.12	0.19	NW	1.8	4	NE
20251111.15	0.21	N	1.8	4	NE
20251111.18	0.24	NE	2.0	2	NW
20251111.21	0.28	E	2.2	3	NW
20251112.00	0.28	E	2.5	3	NW
20251112.03	0.29	E	2.5	3	N
20251112.06	0.33	E	2.4	4	NE
20251112.09	0.32	E	2.3	3	NE
20251112.12	0.27	E	2.4	2	NE
20251112.15	0.25	E	2.3	4	N
20251112.18	0.36	E	2.2	6	W
20251112.21	0.42	E	2.4	5	NW
20251113.00	0.34	E	2.3	4	SW
20251113.03	0.27	E	2.4	3	SW
20251113.06	0.23	E	2.6	2	SE
20251113.09	0.22	E	2.6	2	S
20251113.12	0.22	E	2.4	3	SW
20251113.15	0.24	E	2.1	4	W
20251113.18	0.28	E	2.1	5	N
20251113.21	0.27	E	2.2	4	NE
20251114.00	0.24	NE	2.3	2	SE
20251114.03	0.21	NE	2.5	2	E
20251114.06	0.22	NE	2.4	1	W
20251114.09	0.25	N	2.3	1	NW
20251114.12	0.26	N	2.3	2	NW
20251114.15	0.25	N	2.4	1	NW
20251114.18	0.24	N	2.6	1	N
20251114.21	0.22	NE	2.7	1	W
20251115.00	0.21	NE	2.6	1	W
20251115.03	0.20	NE	2.6	1	NE
20251115.06	0.20	NE	2.5	1	E
20251115.09	0.20	E	2.4	1	SE
20251115.12	0.20	E	2.5	1	E

Wind condition in the Fetisovo

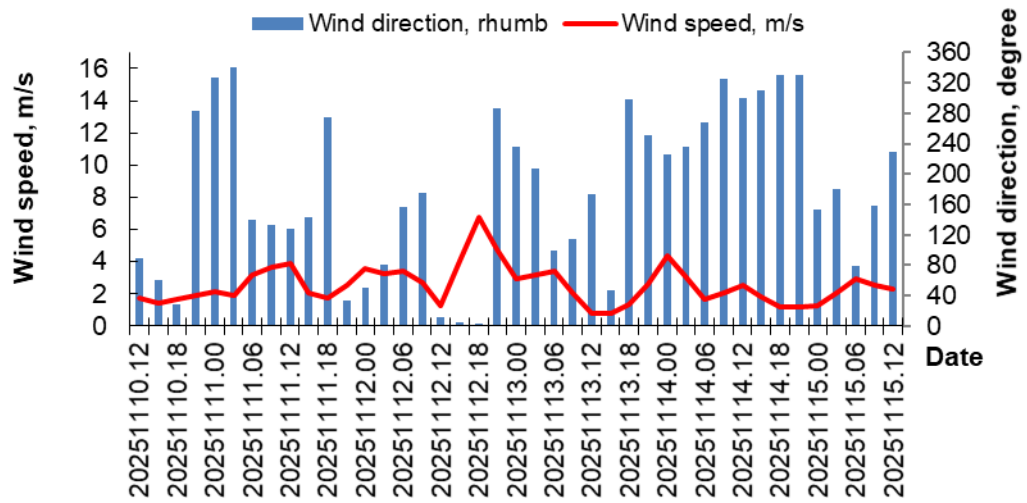


Wave condition in the Fetisovo

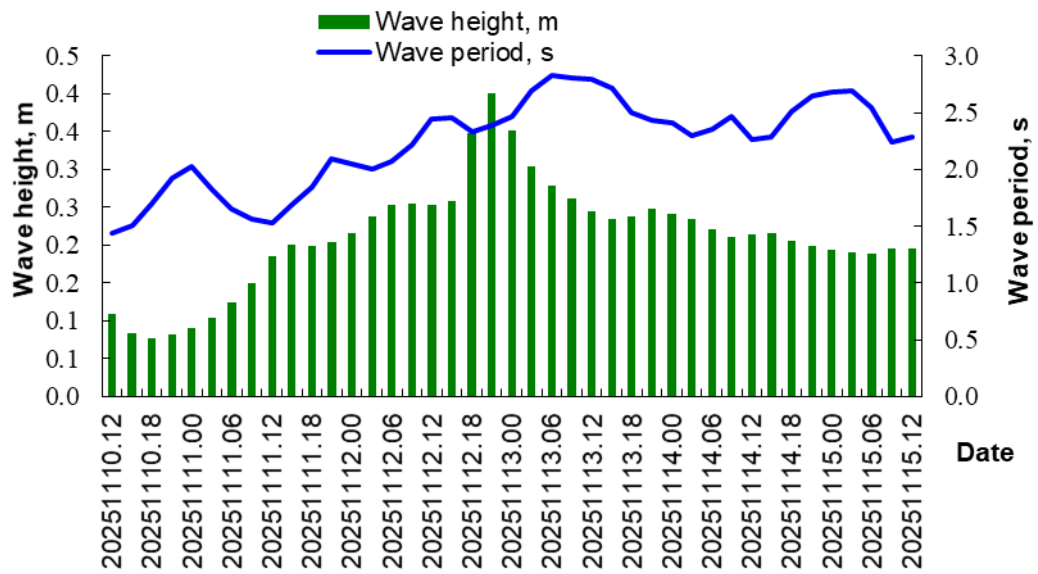


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251110.12	0.10	W	1.8	1	SW
20251110.15	0.15	W	1.9	1	NW
20251110.18	0.17	SW	2.1	3	N
20251110.21	0.18	SW	2.3	2	N
20251111.00	0.18	SW	2.4	1	NW
20251111.03	0.18	SW	2.4	1	NE
20251111.06	0.18	SW	2.3	3	SE
20251111.09	0.20	W	2.1	3	E
20251111.12	0.19	W	2.1	3	N
20251111.15	0.19	NW	2.0	4	W
20251111.18	0.21	E	1.8	4	NW
20251111.21	0.22	E	1.9	3	NW
20251112.00	0.22	E	2.1	2	NW
20251112.03	0.23	E	2.1	4	N
20251112.06	0.32	NE	2.2	6	NE
20251112.09	0.35	NE	2.3	4	NE
20251112.12	0.31	NE	2.5	1	W
20251112.15	0.26	NE	2.6	3	W
20251112.18	0.26	NE	2.2	5	W
20251112.21	0.29	E	2.1	5	NW
20251113.00	0.28	E	2.1	5	SW
20251113.03	0.26	E	2.1	4	S
20251113.06	0.26	E	2.1	5	SE
20251113.09	0.26	N	2.1	3	E
20251113.12	0.23	N	2.2	2	N
20251113.15	0.21	NE	2.5	3	NW
20251113.18	0.21	NE	2.5	3	NE
20251113.21	0.21	NE	2.3	2	NE
20251114.00	0.21	NE	2.4	2	E
20251114.03	0.21	NE	2.6	1	SE
20251114.06	0.21	NE	2.6	2	SW
20251114.09	0.21	NE	2.5	2	W
20251114.12	0.21	NE	2.4	2	NW
20251114.15	0.22	NE	2.4	3	N
20251114.18	0.22	NE	2.3	3	SW
20251114.21	0.22	NE	2.3	3	NW
20251115.00	0.23	E	2.2	3	W
20251115.03	0.23	E	2.3	2	W
20251115.06	0.24	E	2.3	1	SW
20251115.09	0.25	SE	2.4	1	SW
20251115.12	0.25	SE	2.5	1	SE

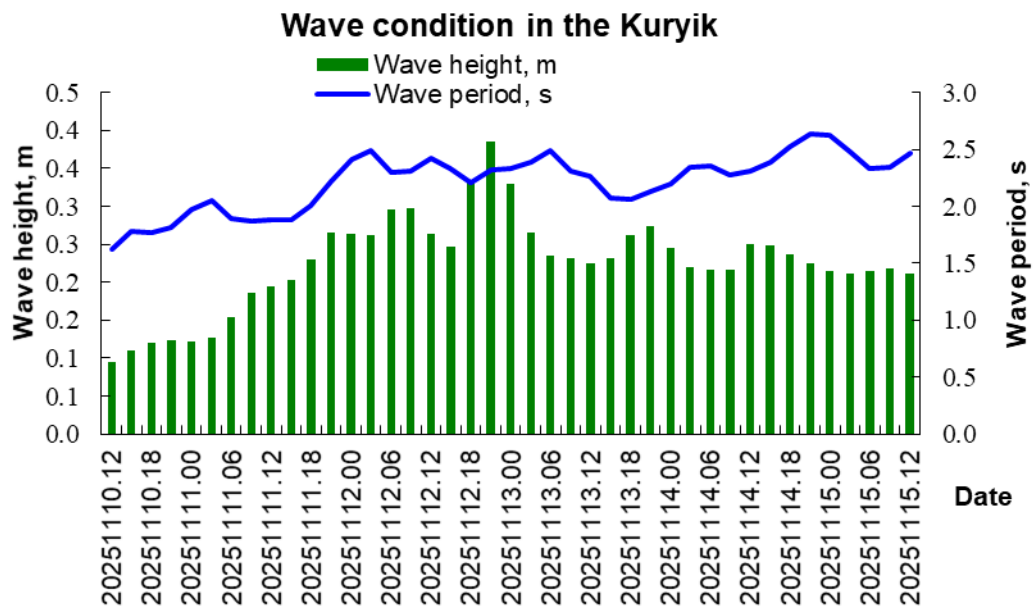
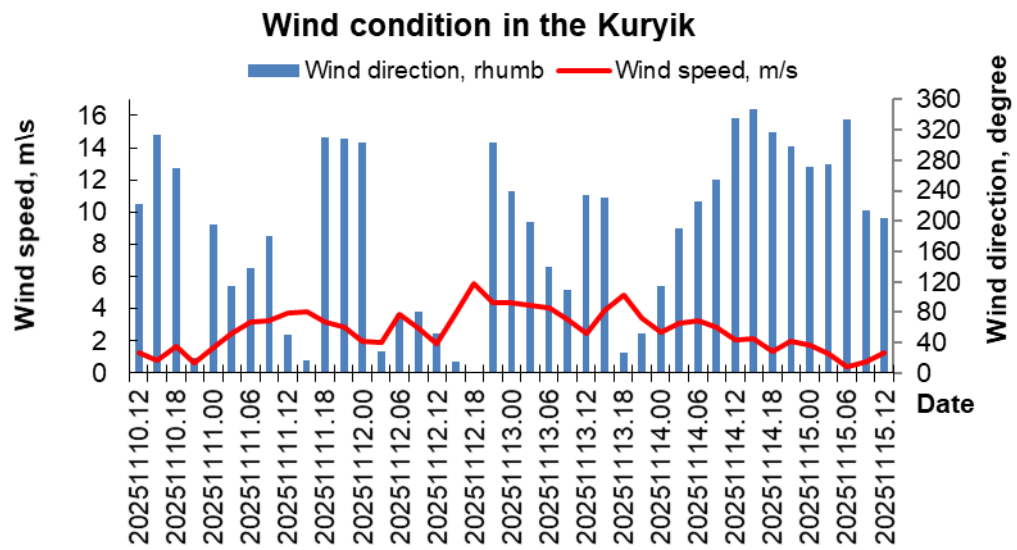
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251110.12	0.11	N	1.4	2	E
20251110.15	0.08	N	1.5	1	NE
20251110.18	0.08	NW	1.7	2	NE
20251110.21	0.08	NW	1.9	2	W
20251111.00	0.09	NW	2.0	2	NW
20251111.03	0.10	W	1.8	2	N
20251111.06	0.12	W	1.7	3	SE
20251111.09	0.15	NW	1.6	4	SE
20251111.12	0.19	NW	1.5	4	SE
20251111.15	0.20	NW	1.7	2	SE
20251111.18	0.20	NW	1.8	2	W
20251111.21	0.20	N	2.1	3	NE
20251112.00	0.22	NE	2.1	4	NE
20251112.03	0.24	NE	2.0	3	E
20251112.06	0.25	NE	2.1	3	SE
20251112.09	0.25	NE	2.2	3	S
20251112.12	0.25	NE	2.4	1	N
20251112.15	0.26	NE	2.5	4	N
20251112.18	0.35	E	2.3	7	N
20251112.21	0.40	E	2.4	5	W
20251113.00	0.35	E	2.5	3	SW
20251113.03	0.30	E	2.7	3	SW
20251113.06	0.28	E	2.8	3	E
20251113.09	0.26	E	2.8	2	SE
20251113.12	0.24	E	2.8	1	S
20251113.15	0.23	E	2.7	1	NE
20251113.18	0.24	E	2.5	1	NW
20251113.21	0.25	E	2.4	3	W
20251114.00	0.24	E	2.4	4	SW
20251114.03	0.23	E	2.3	3	SW
20251114.06	0.22	E	2.4	2	W
20251114.09	0.21	E	2.5	2	NW
20251114.12	0.21	NE	2.3	3	NW
20251114.15	0.22	NE	2.3	2	NW
20251114.18	0.21	NE	2.5	1	NW
20251114.21	0.20	NE	2.6	1	NW
20251115.00	0.19	NE	2.7	1	SE
20251115.03	0.19	NE	2.7	2	S
20251115.06	0.19	NE	2.5	3	E
20251115.09	0.20	NE	2.2	3	S
20251115.12	0.20	E	2.3	2	SW



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251110.12	0.10	W	1.6	1	SW
20251110.15	0.11	SW	1.8	1	NW
20251110.18	0.12	SW	1.8	2	W
20251110.21	0.12	SW	1.8	1	N
20251111.00	0.12	SW	2.0	2	S
20251111.03	0.13	SW	2.1	2	SE
20251111.06	0.15	W	1.9	3	SE
20251111.09	0.19	NW	1.9	3	S
20251111.12	0.19	NW	1.9	4	NE
20251111.15	0.20	NW	1.9	4	N
20251111.18	0.23	NE	2.0	3	NW
20251111.21	0.26	E	2.2	3	NW
20251112.00	0.26	E	2.4	2	NW
20251112.03	0.26	E	2.5	2	NE
20251112.06	0.30	NE	2.3	4	E
20251112.09	0.30	NE	2.3	3	E
20251112.12	0.26	NE	2.4	2	NE
20251112.15	0.25	NE	2.3	4	N
20251112.18	0.33	E	2.2	6	N
20251112.21	0.39	E	2.3	4	NW
20251113.00	0.33	E	2.3	4	SW
20251113.03	0.27	E	2.4	4	S
20251113.06	0.23	E	2.5	4	SE
20251113.09	0.23	NE	2.3	3	E
20251113.12	0.23	NE	2.3	2	SW
20251113.15	0.23	NE	2.1	4	SW
20251113.18	0.26	NE	2.1	5	NE
20251113.21	0.27	NE	2.1	3	NE
20251114.00	0.25	NE	2.2	3	SE
20251114.03	0.22	NE	2.3	3	S
20251114.06	0.22	NE	2.4	3	SW
20251114.09	0.22	NE	2.3	3	W
20251114.12	0.25	NE	2.3	2	NW
20251114.15	0.25	NE	2.4	2	N
20251114.18	0.24	NE	2.5	1	NW
20251114.21	0.22	NE	2.6	2	NW
20251115.00	0.22	NE	2.6	2	W
20251115.03	0.21	NE	2.5	1	W
20251115.06	0.22	E	2.3	0	NW
20251115.09	0.22	E	2.3	1	SW
20251115.12	0.21	E	2.5	1	SW

**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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