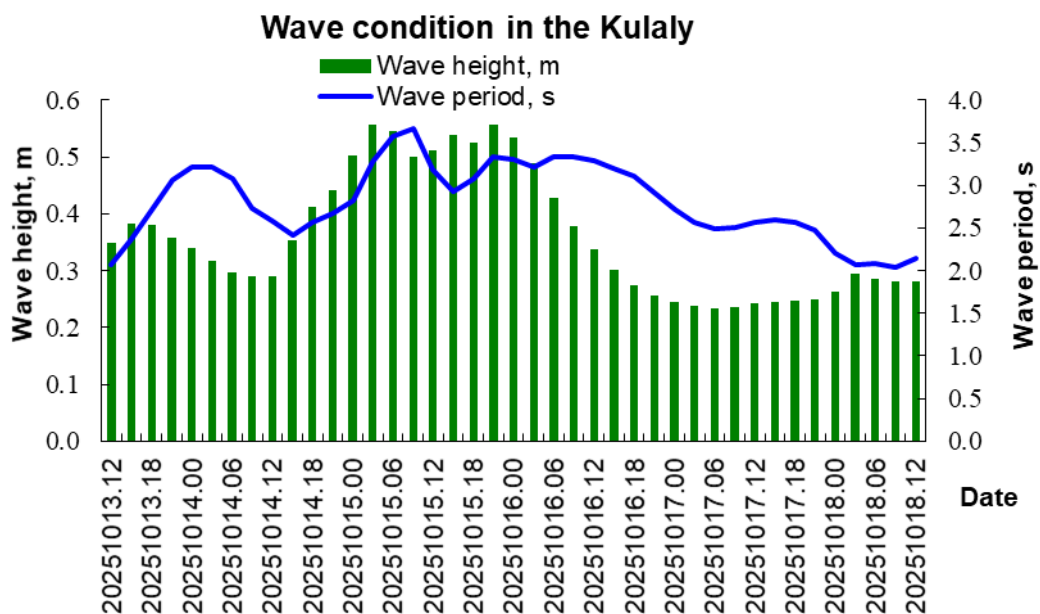
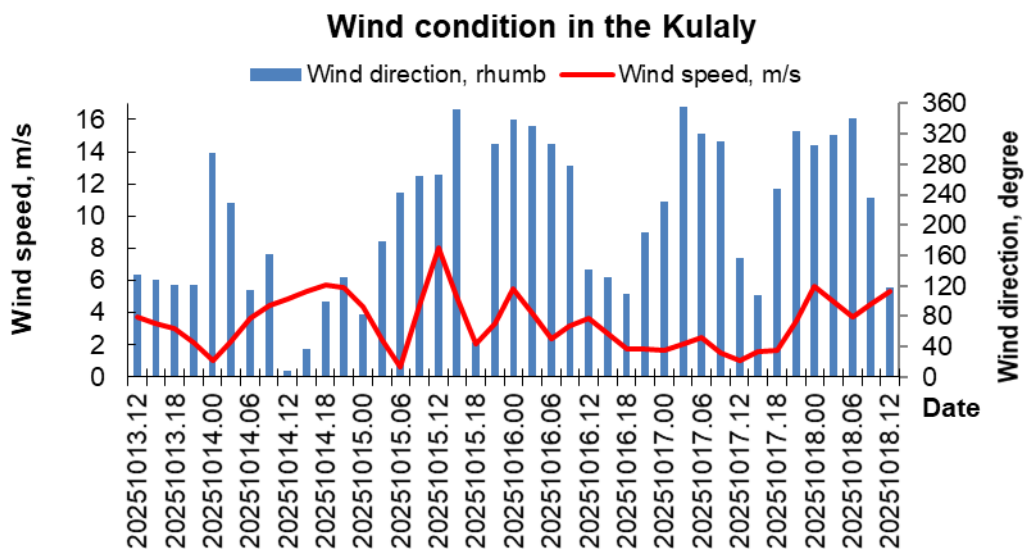




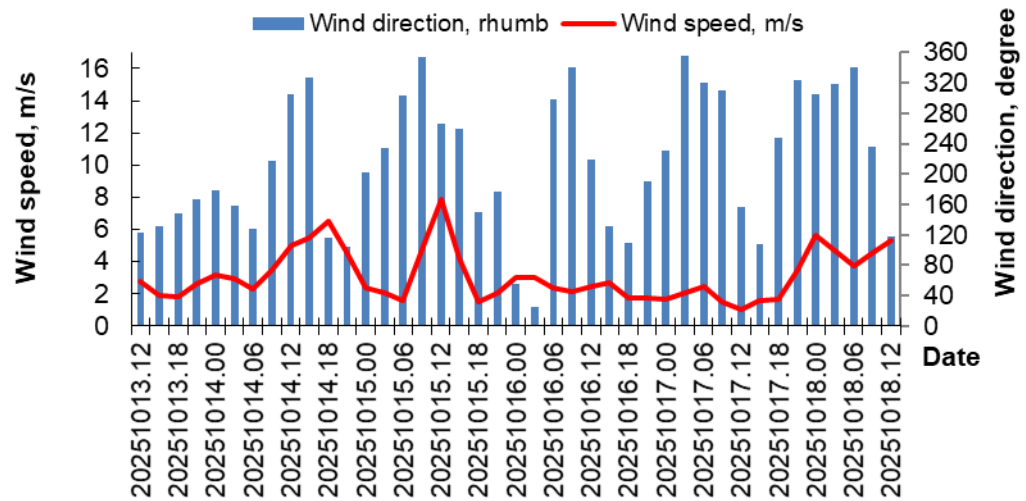
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 13 – 18, 2025.**

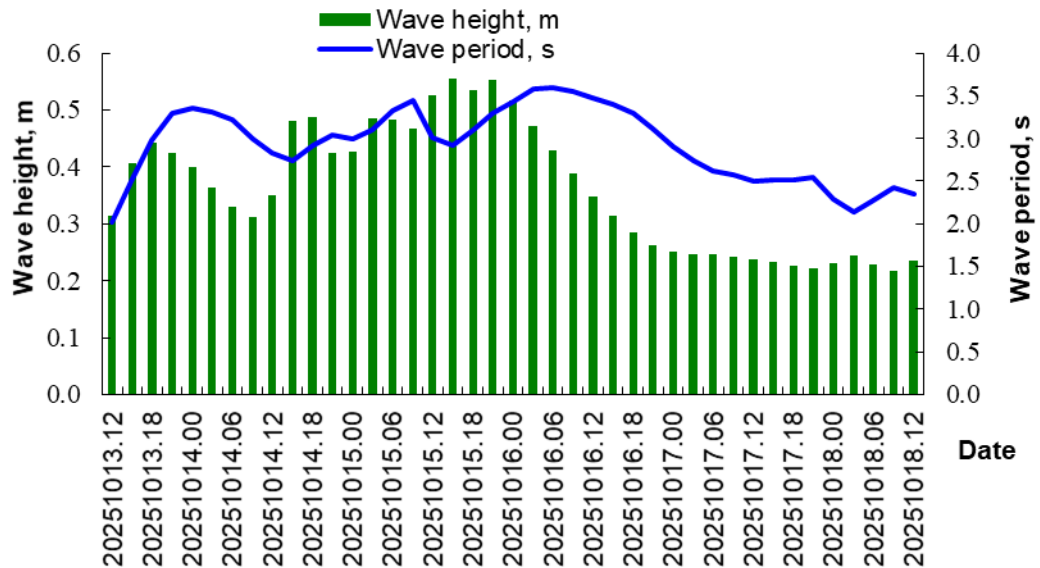


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251013.12	0.35	NW	2.1	4	SE
20251013.15	0.38	NW	2.4	3	SE
20251013.18	0.38	W	2.7	3	SE
20251013.21	0.36	SW	3.1	2	SE
20251014.00	0.34	SW	3.2	1	NW
20251014.03	0.32	SW	3.2	2	SW
20251014.06	0.30	SW	3.1	4	SE
20251014.09	0.29	W	2.7	4	S
20251014.12	0.29	W	2.6	5	N
20251014.15	0.35	E	2.4	5	NE
20251014.18	0.41	E	2.6	6	E
20251014.21	0.44	SE	2.7	6	SE
20251015.00	0.50	W	2.8	4	E
20251015.03	0.56	W	3.3	2	S
20251015.06	0.55	W	3.6	1	SW
20251015.09	0.50	W	3.7	4	W
20251015.12	0.51	W	3.2	8	W
20251015.15	0.54	SW	2.9	5	N
20251015.18	0.52	SW	3.1	2	NE
20251015.21	0.56	W	3.3	3	NW
20251016.00	0.53	W	3.3	5	N
20251016.03	0.49	SW	3.2	4	NW
20251016.06	0.43	SW	3.3	2	NW
20251016.09	0.38	SW	3.3	3	W
20251016.12	0.34	SW	3.3	4	SE
20251016.15	0.30	SW	3.2	3	SE
20251016.18	0.27	SW	3.1	2	E
20251016.21	0.26	SW	2.9	2	S
20251017.00	0.25	SW	2.7	2	SW
20251017.03	0.24	SW	2.6	2	N
20251017.06	0.23	SW	2.5	2	NW
20251017.09	0.23	SW	2.5	2	NW
20251017.12	0.24	SW	2.6	1	SE
20251017.15	0.24	SW	2.6	2	E
20251017.18	0.25	SW	2.6	2	W
20251017.21	0.25	SW	2.5	4	NW
20251018.00	0.26	SW	2.2	6	NW
20251018.03	0.29	S	2.1	5	NW
20251018.06	0.29	S	2.1	4	N
20251018.09	0.28	S	2.0	5	SW
20251018.12	0.28	SW	2.1	5	SE

Wind condition in the Fort-Shevchenko

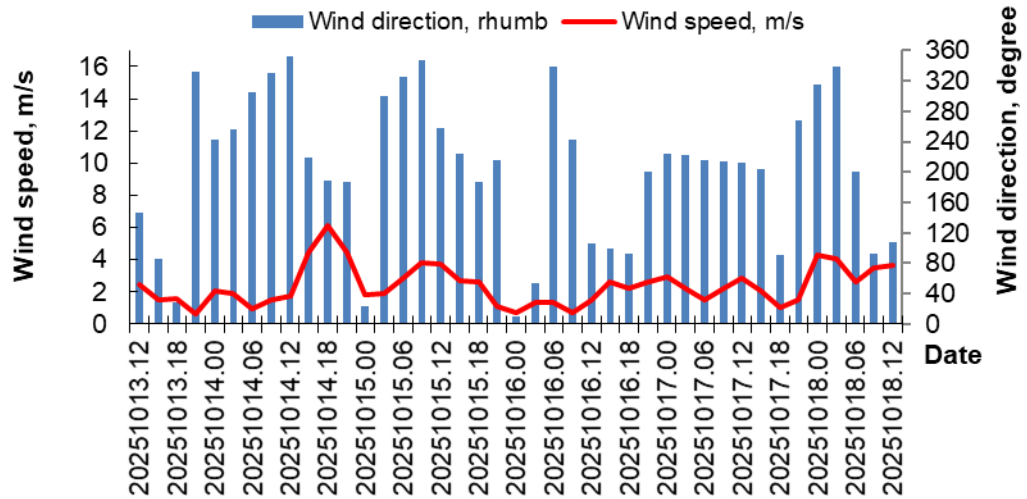


Wave condition in the Fort-Shevchenko

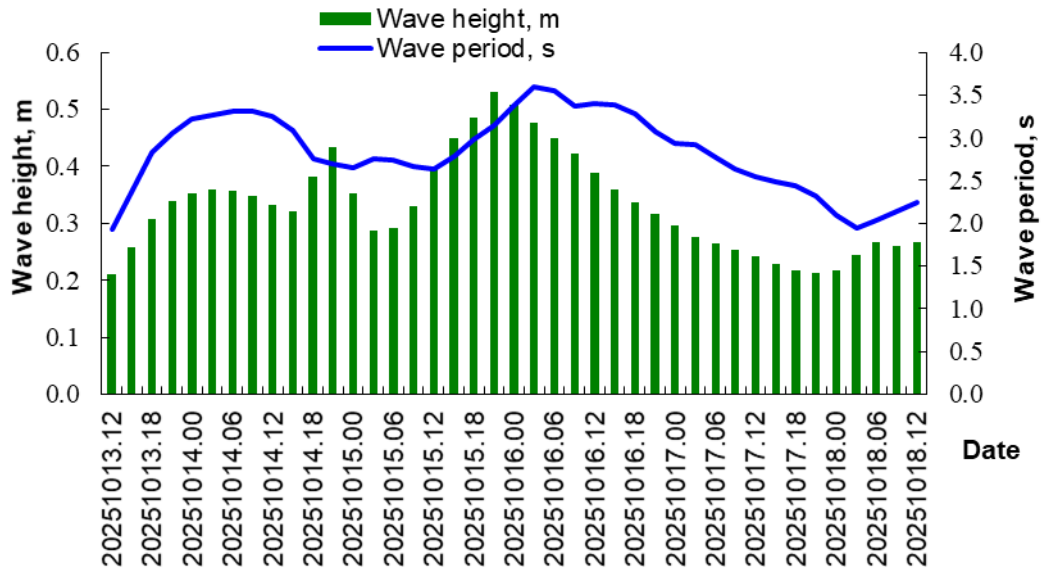


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251013.12	0.31	NW	2.0	3	SE
20251013.15	0.41	NW	2.5	2	SE
20251013.18	0.44	NW	3.0	2	SE
20251013.21	0.43	NW	3.3	3	S
20251014.00	0.40	NW	3.4	3	S
20251014.03	0.36	NW	3.3	3	S
20251014.06	0.33	NW	3.2	2	SE
20251014.09	0.31	W	3.0	4	SW
20251014.12	0.35	SE	2.8	5	NW
20251014.15	0.48	SE	2.7	5	NW
20251014.18	0.49	SE	2.9	7	SE
20251014.21	0.43	SE	3.0	5	E
20251015.00	0.43	SW	3.0	2	SW
20251015.03	0.49	W	3.1	2	SW
20251015.06	0.48	W	3.3	2	NW
20251015.09	0.47	W	3.4	5	N
20251015.12	0.53	SW	3.0	8	W
20251015.15	0.56	SW	2.9	4	W
20251015.18	0.54	SW	3.1	2	SE
20251015.21	0.55	W	3.3	2	S
20251016.00	0.52	W	3.4	3	NE
20251016.03	0.47	W	3.6	3	NE
20251016.06	0.43	W	3.6	2	NW
20251016.09	0.39	W	3.5	2	N
20251016.12	0.35	W	3.5	2	SW
20251016.15	0.31	SW	3.4	3	SE
20251016.18	0.28	SW	3.3	2	E
20251016.21	0.26	SW	3.1	2	S
20251017.00	0.25	SW	2.9	2	SW
20251017.03	0.25	SW	2.7	2	N
20251017.06	0.25	SW	2.6	2	NW
20251017.09	0.24	SW	2.6	2	NW
20251017.12	0.24	SW	2.5	1	SE
20251017.15	0.23	SW	2.5	2	E
20251017.18	0.23	SW	2.5	2	W
20251017.21	0.22	SW	2.5	4	NW
20251018.00	0.23	SW	2.3	6	NW
20251018.03	0.24	S	2.1	5	NW
20251018.06	0.23	S	2.3	4	N
20251018.09	0.22	S	2.4	5	SW
20251018.12	0.24	SW	2.3	5	SE

Wind condition in the Aktau

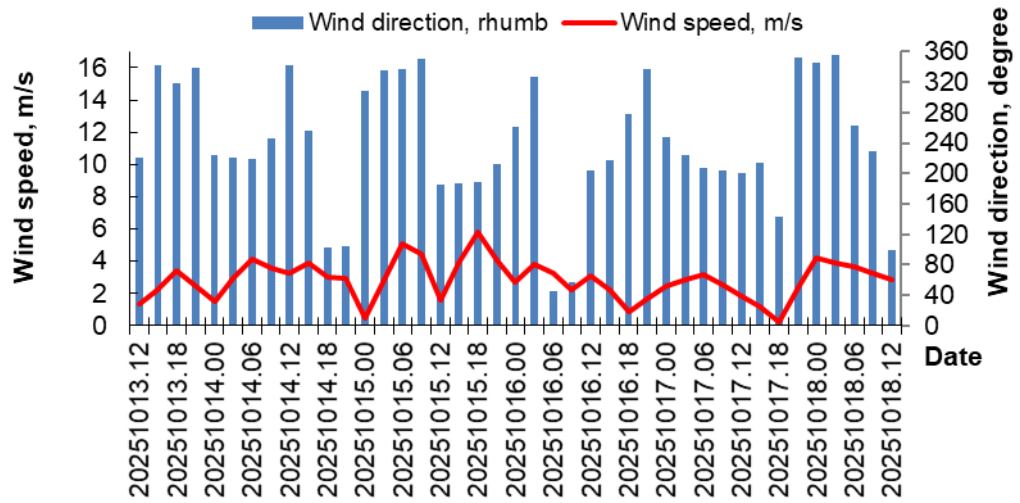


Wave condition in the Aktau

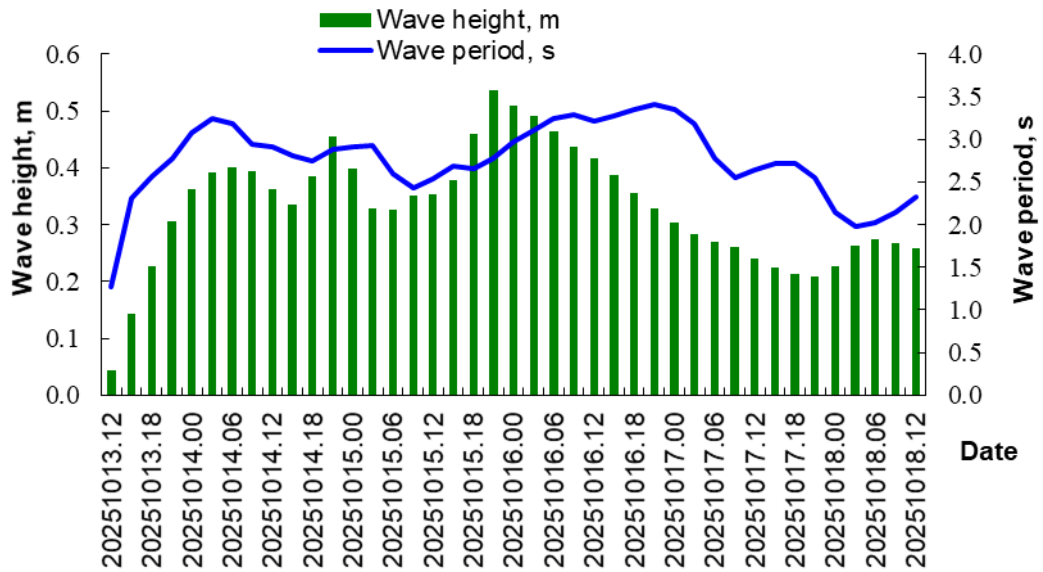


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20251013.12	0.21	NW	1.9	2	SE
20251013.15	0.26	NW	2.4	2	E
20251013.18	0.31	W	2.8	2	NE
20251013.21	0.34	W	3.1	1	NW
20251014.00	0.35	W	3.2	2	SW
20251014.03	0.36	W	3.3	2	W
20251014.06	0.36	W	3.3	1	NW
20251014.09	0.35	W	3.3	1	NW
20251014.12	0.33	W	3.3	2	N
20251014.15	0.32	S	3.1	4	SW
20251014.18	0.38	SW	2.8	6	S
20251014.21	0.43	W	2.7	4	S
20251015.00	0.35	W	2.7	2	NE
20251015.03	0.29	W	2.8	2	NW
20251015.06	0.29	SW	2.7	3	NW
20251015.09	0.33	SW	2.7	4	N
20251015.12	0.40	SW	2.6	4	W
20251015.15	0.45	SW	2.8	3	SW
20251015.18	0.49	SW	3.0	3	S
20251015.21	0.53	W	3.1	1	SW
20251016.00	0.51	W	3.4	1	N
20251016.03	0.48	W	3.6	1	NE
20251016.06	0.45	W	3.6	1	N
20251016.09	0.42	W	3.4	1	SW
20251016.12	0.39	W	3.4	2	E
20251016.15	0.36	W	3.4	3	E
20251016.18	0.34	W	3.3	2	E
20251016.21	0.32	W	3.1	3	S
20251017.00	0.30	W	2.9	3	SW
20251017.03	0.28	SW	2.9	2	SW
20251017.06	0.26	SW	2.8	2	SW
20251017.09	0.25	SW	2.6	2	SW
20251017.12	0.24	SW	2.5	3	SW
20251017.15	0.23	SW	2.5	2	SW
20251017.18	0.22	SW	2.4	1	E
20251017.21	0.21	SW	2.3	2	W
20251018.00	0.22	SW	2.1	4	NW
20251018.03	0.25	S	1.9	4	N
20251018.06	0.27	S	2.0	3	S
20251018.09	0.26	SW	2.1	4	E
20251018.12	0.27	SW	2.2	4	E

Wind condition in the Peschanyi

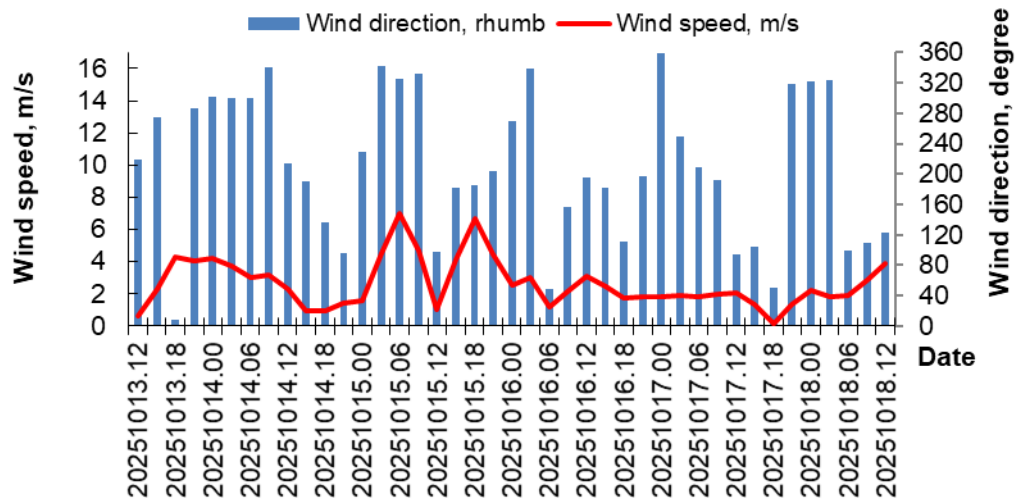


Wave condition in the Peschanyi

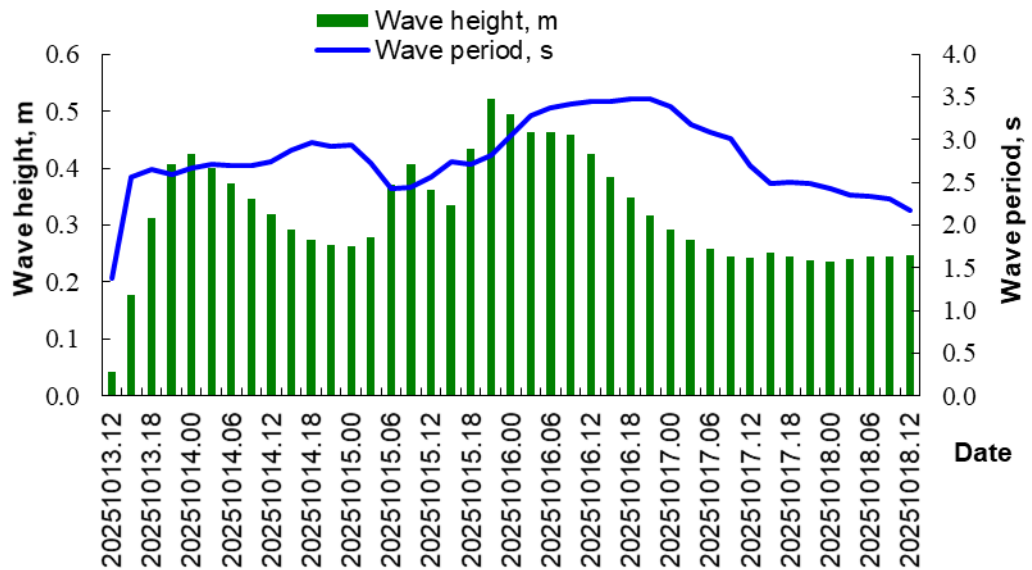


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251013.12	0.04	SW	1.3	1	SW
20251013.15	0.14	W	2.3	2	N
20251013.18	0.23	W	2.6	3	NW
20251013.21	0.31	SW	2.8	2	N
20251014.00	0.36	SW	3.1	2	SW
20251014.03	0.39	SW	3.2	3	SW
20251014.06	0.40	SW	3.2	4	SW
20251014.09	0.40	SW	2.9	4	SW
20251014.12	0.36	SW	2.9	3	N
20251014.15	0.34	SW	2.8	4	W
20251014.18	0.39	SW	2.7	3	E
20251014.21	0.46	W	2.9	3	E
20251015.00	0.40	W	2.9	0	NW
20251015.03	0.33	W	2.9	3	NW
20251015.06	0.33	SW	2.6	5	N
20251015.09	0.35	SW	2.4	4	N
20251015.12	0.35	SW	2.5	2	S
20251015.15	0.38	SW	2.7	4	S
20251015.18	0.46	SW	2.7	6	S
20251015.21	0.54	W	2.8	4	SW
20251016.00	0.51	W	3.0	3	W
20251016.03	0.49	SW	3.1	4	NW
20251016.06	0.46	W	3.2	3	NE
20251016.09	0.44	W	3.3	2	NE
20251016.12	0.42	W	3.2	3	SW
20251016.15	0.39	W	3.3	2	SW
20251016.18	0.36	W	3.4	1	W
20251016.21	0.33	W	3.4	2	N
20251017.00	0.30	W	3.3	2	W
20251017.03	0.28	W	3.2	3	SW
20251017.06	0.27	SW	2.8	3	SW
20251017.09	0.26	SW	2.6	3	SW
20251017.12	0.24	SW	2.6	2	S
20251017.15	0.22	SW	2.7	1	SW
20251017.18	0.21	SW	2.7	0	SE
20251017.21	0.21	SW	2.6	2	N
20251018.00	0.23	SW	2.1	4	N
20251018.03	0.26	S	2.0	4	N
20251018.06	0.28	S	2.0	4	W
20251018.09	0.27	S	2.1	3	SW
20251018.12	0.26	SW	2.3	3	E

Wind condition in the Fetisovo

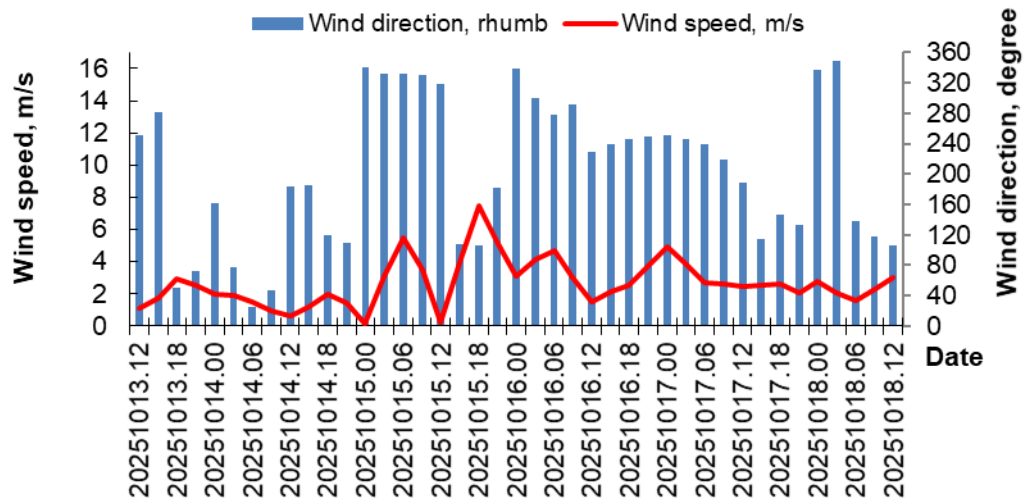


Wave condition in the Fetisovo

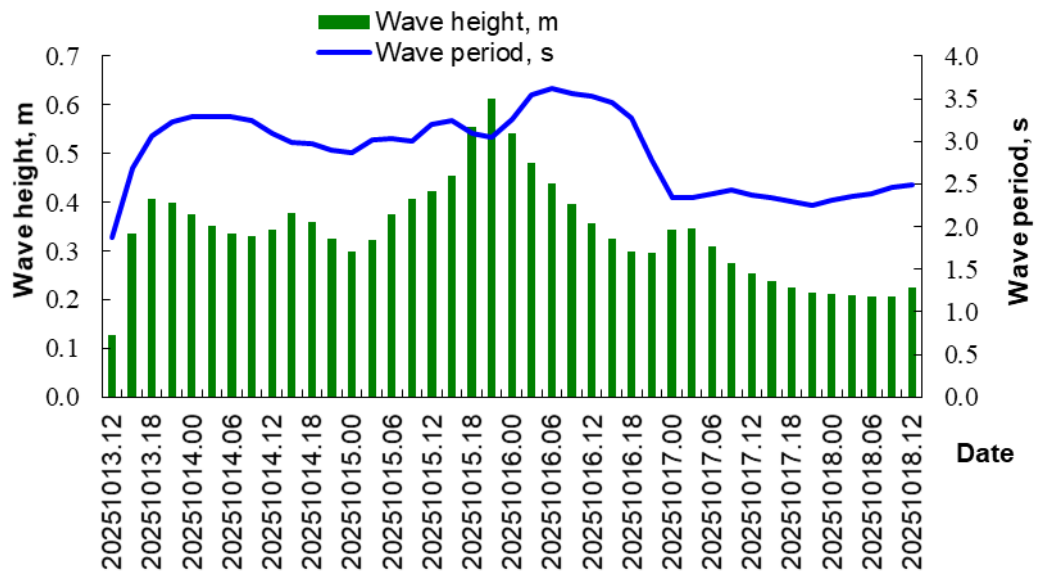


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251013.12	0.04	NW	1.4	1	SW
20251013.15	0.18	W	2.6	2	W
20251013.18	0.31	SW	2.6	4	N
20251013.21	0.41	SW	2.6	4	W
20251014.00	0.42	SW	2.7	4	NW
20251014.03	0.40	SW	2.7	4	NW
20251014.06	0.37	S	2.7	3	NW
20251014.09	0.35	S	2.7	3	N
20251014.12	0.32	S	2.7	2	SW
20251014.15	0.29	SW	2.9	1	S
20251014.18	0.27	W	3.0	1	SE
20251014.21	0.27	W	2.9	1	E
20251015.00	0.26	W	2.9	2	SW
20251015.03	0.28	W	2.7	5	N
20251015.06	0.37	S	2.4	7	NW
20251015.09	0.41	S	2.4	5	NW
20251015.12	0.36	S	2.6	1	E
20251015.15	0.34	SW	2.7	4	S
20251015.18	0.43	SW	2.7	7	S
20251015.21	0.52	W	2.8	4	SW
20251016.00	0.49	W	3.0	3	W
20251016.03	0.46	W	3.3	3	N
20251016.06	0.46	SW	3.4	1	NE
20251016.09	0.46	SW	3.4	2	SE
20251016.12	0.43	SW	3.5	3	S
20251016.15	0.39	W	3.5	2	S
20251016.18	0.35	W	3.5	2	E
20251016.21	0.32	W	3.5	2	S
20251017.00	0.29	W	3.4	2	N
20251017.03	0.27	W	3.2	2	W
20251017.06	0.26	W	3.1	2	SW
20251017.09	0.24	W	3.0	2	S
20251017.12	0.24	W	2.7	2	E
20251017.15	0.25	W	2.5	1	E
20251017.18	0.25	W	2.5	0	NE
20251017.21	0.24	W	2.5	1	NW
20251018.00	0.24	SW	2.4	2	NW
20251018.03	0.24	SW	2.3	2	NW
20251018.06	0.24	SW	2.3	2	E
20251018.09	0.24	SW	2.3	3	E
20251018.12	0.25	SW	2.2	4	SE

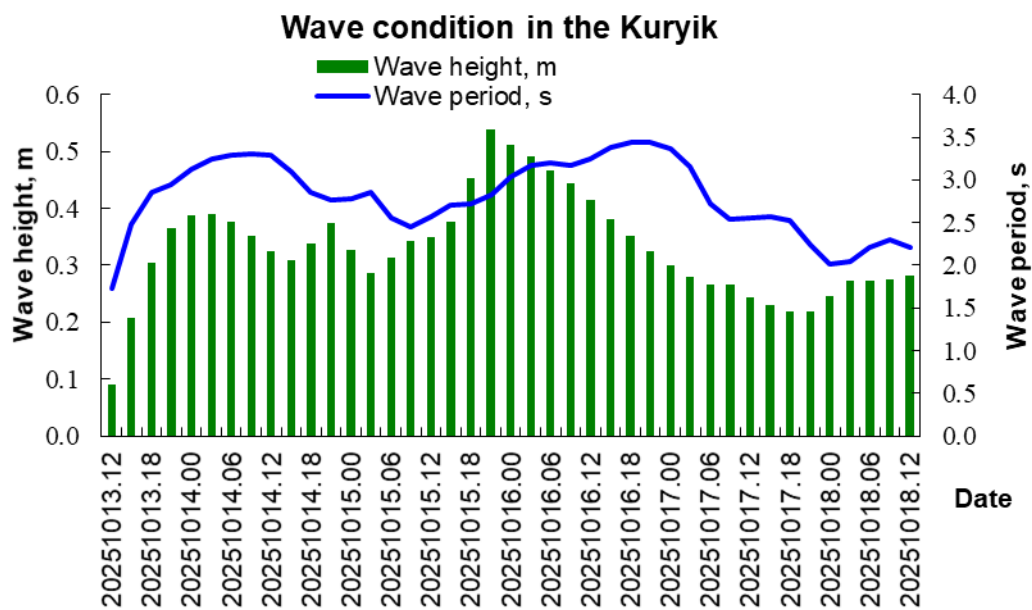
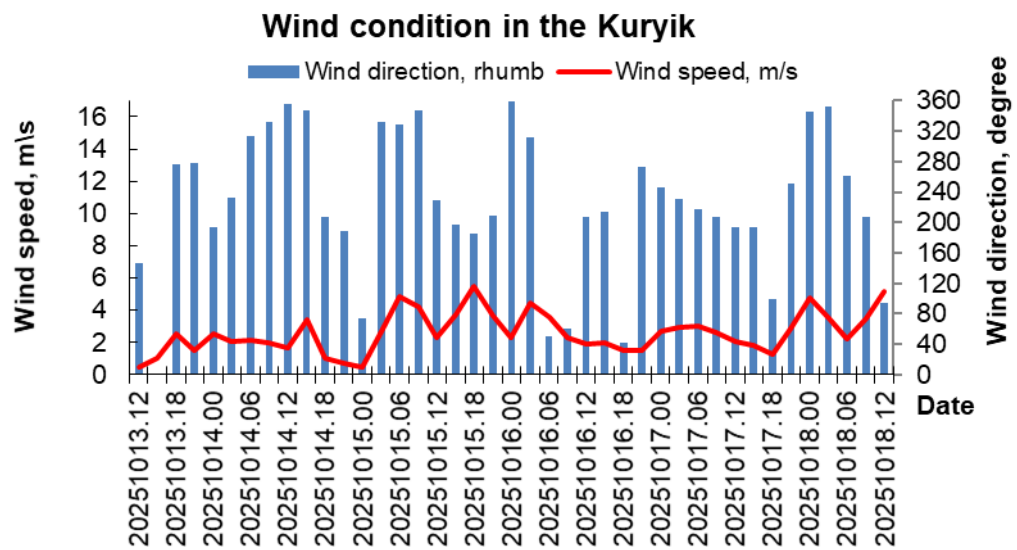
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251013.12	0.13	W	1.9	1	W
20251013.15	0.34	SW	2.7	2	W
20251013.18	0.41	SW	3.1	3	NE
20251013.21	0.40	SW	3.2	3	E
20251014.00	0.37	W	3.3	2	S
20251014.03	0.35	W	3.3	2	E
20251014.06	0.34	W	3.3	2	NE
20251014.09	0.33	W	3.2	1	NE
20251014.12	0.34	S	3.1	1	S
20251014.15	0.38	SE	3.0	1	S
20251014.18	0.36	SE	3.0	2	SE
20251014.21	0.33	S	2.9	1	E
20251015.00	0.30	SW	2.9	0	N
20251015.03	0.32	W	3.0	3	NW
20251015.06	0.38	W	3.0	5	NW
20251015.09	0.41	W	3.0	4	NW
20251015.12	0.42	W	3.2	0	NW
20251015.15	0.45	SW	3.2	4	E
20251015.18	0.56	W	3.1	7	E
20251015.21	0.61	W	3.1	5	S
20251016.00	0.54	W	3.3	3	N
20251016.03	0.48	W	3.5	4	NW
20251016.06	0.44	W	3.6	5	W
20251016.09	0.40	W	3.6	3	W
20251016.12	0.36	W	3.5	2	SW
20251016.15	0.32	W	3.4	2	SW
20251016.18	0.30	W	3.3	3	SW
20251016.21	0.30	SW	2.8	4	W
20251017.00	0.34	SW	2.3	5	W
20251017.03	0.35	SW	2.3	4	SW
20251017.06	0.31	SW	2.4	3	SW
20251017.09	0.28	SW	2.4	3	SW
20251017.12	0.25	SW	2.4	2	S
20251017.15	0.24	SW	2.3	3	SE
20251017.18	0.22	SW	2.3	3	SE
20251017.21	0.22	SW	2.2	2	SE
20251018.00	0.21	SW	2.3	3	NW
20251018.03	0.21	SW	2.4	2	N
20251018.06	0.21	SW	2.4	2	SE
20251018.09	0.21	SW	2.5	2	SE
20251018.12	0.22	SW	2.5	3	E



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251013.12	0.09	NW	1.7	0	SE
20251013.15	0.21	W	2.5	1	N
20251013.18	0.30	W	2.8	3	W
20251013.21	0.36	SW	2.9	2	W
20251014.00	0.39	SW	3.1	3	S
20251014.03	0.39	SW	3.3	2	SW
20251014.06	0.38	SW	3.3	2	NW
20251014.09	0.35	SW	3.3	2	NW
20251014.12	0.33	SW	3.3	2	N
20251014.15	0.31	SW	3.1	3	N
20251014.18	0.34	SW	2.9	1	SW
20251014.21	0.37	W	2.8	1	S
20251015.00	0.33	W	2.8	0	E
20251015.03	0.29	W	2.9	3	NW
20251015.06	0.31	SW	2.5	5	NW
20251015.09	0.34	S	2.5	4	N
20251015.12	0.35	SW	2.6	2	SW
20251015.15	0.38	SW	2.7	4	S
20251015.18	0.45	SW	2.7	6	S
20251015.21	0.54	W	2.8	4	SW
20251016.00	0.51	W	3.0	2	N
20251016.03	0.49	W	3.2	4	NW
20251016.06	0.47	W	3.2	4	NE
20251016.09	0.44	W	3.2	2	NE
20251016.12	0.41	W	3.2	2	SW
20251016.15	0.38	W	3.4	2	SW
20251016.18	0.35	W	3.4	1	NE
20251016.21	0.32	W	3.4	2	W
20251017.00	0.30	W	3.4	3	SW
20251017.03	0.28	W	3.2	3	SW
20251017.06	0.27	W	2.7	3	SW
20251017.09	0.27	W	2.5	3	SW
20251017.12	0.24	SW	2.6	2	S
20251017.15	0.23	SW	2.6	2	S
20251017.18	0.22	SW	2.5	1	E
20251017.21	0.22	SW	2.2	3	W
20251018.00	0.25	SW	2.0	5	N
20251018.03	0.27	S	2.0	4	N
20251018.06	0.27	S	2.2	2	W
20251018.09	0.27	S	2.3	3	SW
20251018.12	0.28	SW	2.2	5	E

**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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