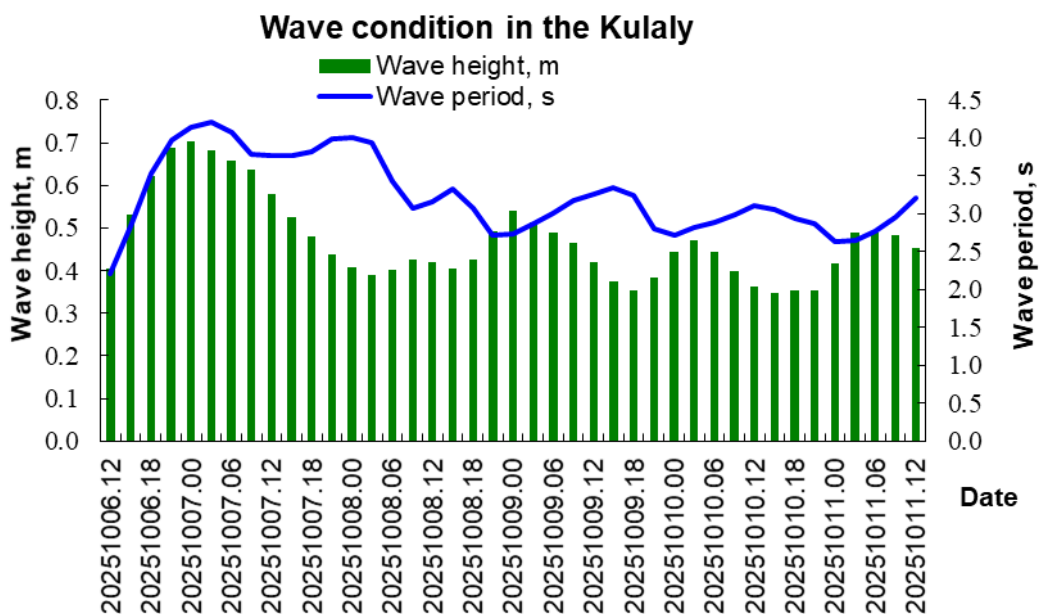
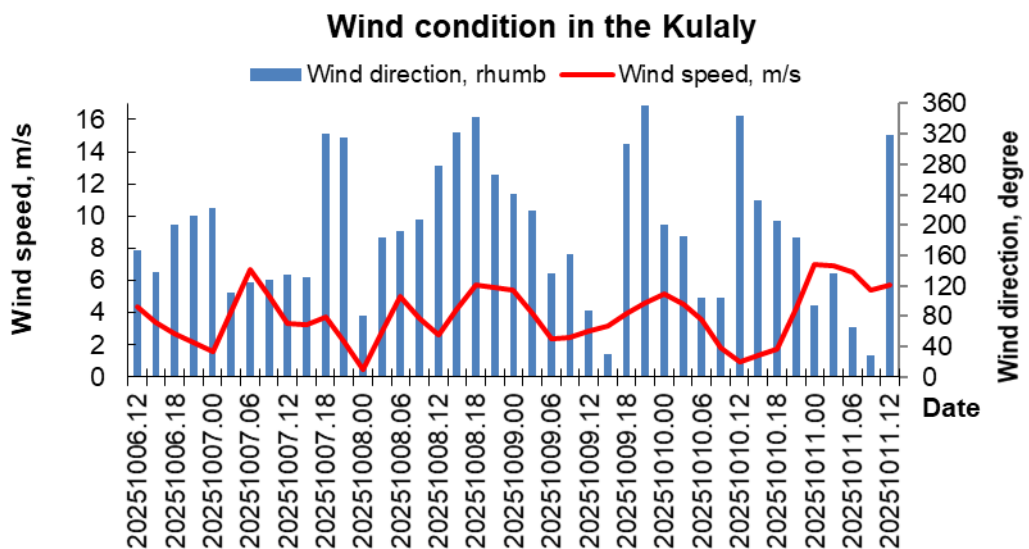




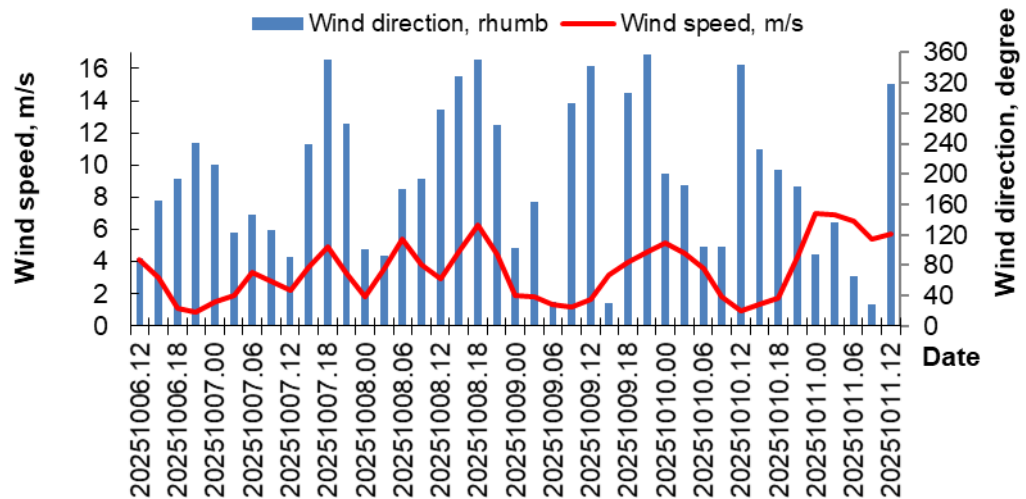
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 06 – 11, 2025.**

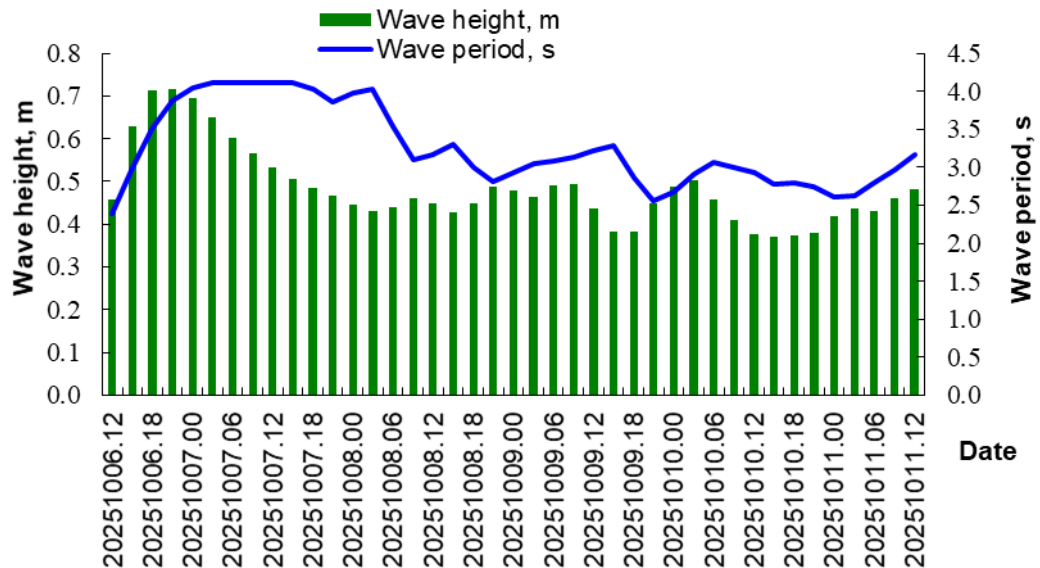


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251006.12	0.41	N	2.2	4	S
20251006.15	0.53	N	2.8	3	SE
20251006.18	0.62	N	3.5	3	S
20251006.21	0.69	N	4.0	2	SW
20251007.00	0.70	N	4.1	2	SW
20251007.03	0.68	N	4.2	4	E
20251007.06	0.66	NW	4.1	7	SE
20251007.09	0.64	NW	3.8	5	SE
20251007.12	0.58	NW	3.8	3	SE
20251007.15	0.53	NW	3.8	3	SE
20251007.18	0.48	NW	3.8	4	NW
20251007.21	0.44	NW	4.0	2	NW
20251008.00	0.41	NW	4.0	0	E
20251008.03	0.39	NW	3.9	3	S
20251008.06	0.40	NW	3.4	5	S
20251008.09	0.43	W	3.1	4	SW
20251008.12	0.42	E	3.2	3	W
20251008.15	0.41	E	3.3	4	NW
20251008.18	0.42	SE	3.1	6	N
20251008.21	0.49	SE	2.7	6	W
20251009.00	0.54	S	2.7	5	SW
20251009.03	0.51	S	2.9	4	SW
20251009.06	0.49	S	3.0	2	SE
20251009.09	0.47	S	3.2	2	S
20251009.12	0.42	S	3.3	3	E
20251009.15	0.38	S	3.3	3	NE
20251009.18	0.35	S	3.2	4	NW
20251009.21	0.38	S	2.8	5	N
20251010.00	0.44	S	2.7	5	S
20251010.03	0.47	SW	2.8	5	S
20251010.06	0.44	SW	2.9	4	E
20251010.09	0.40	SW	3.0	2	E
20251010.12	0.36	SW	3.1	1	N
20251010.15	0.35	S	3.1	1	SW
20251010.18	0.35	S	2.9	2	SW
20251010.21	0.35	S	2.9	4	S
20251011.00	0.42	SW	2.6	7	E
20251011.03	0.49	W	2.6	7	SE
20251011.06	0.49	W	2.8	7	NE
20251011.09	0.48	SW	3.0	5	NE
20251011.12	0.45	SW	3.2	6	NW

Wind condition in the Fort-Shevchenko

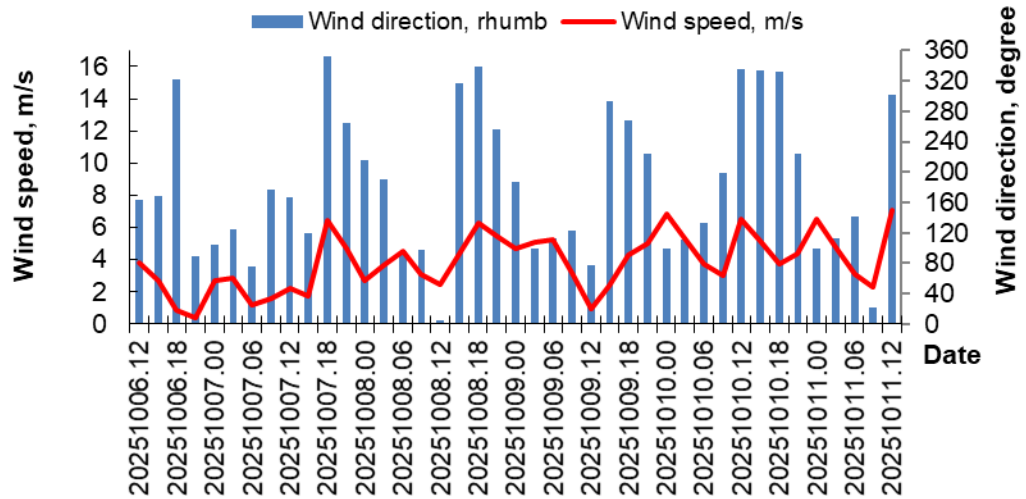


Wave condition in the Fort-Shevchenko

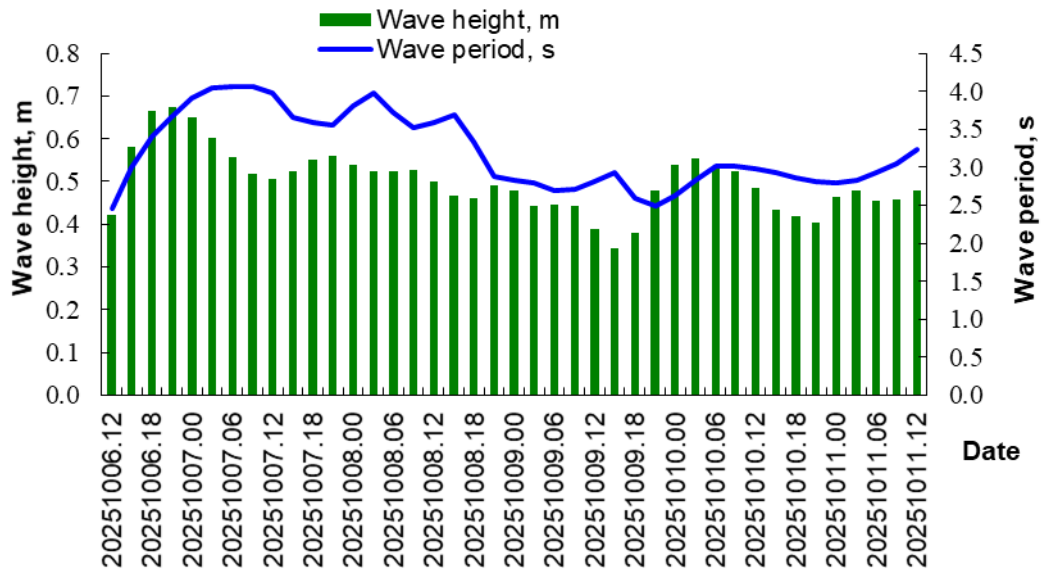


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251006.12	0.46	N	2.4	4	E
20251006.15	0.63	N	3.0	3	S
20251006.18	0.71	N	3.5	1	S
20251006.21	0.72	N	3.9	1	SW
20251007.00	0.69	N	4.0	1	SW
20251007.03	0.65	N	4.1	2	SE
20251007.06	0.60	NW	4.1	3	SE
20251007.09	0.57	NW	4.1	3	SE
20251007.12	0.53	NW	4.1	2	E
20251007.15	0.51	NW	4.1	4	SW
20251007.18	0.49	NW	4.0	5	N
20251007.21	0.47	NW	3.9	3	W
20251008.00	0.45	NW	4.0	2	E
20251008.03	0.43	NW	4.0	4	E
20251008.06	0.44	N	3.5	5	S
20251008.09	0.46	NW	3.1	4	S
20251008.12	0.45	E	3.2	3	W
20251008.15	0.43	E	3.3	5	NW
20251008.18	0.45	SE	3.0	6	N
20251008.21	0.49	SE	2.8	4	W
20251009.00	0.48	SE	2.9	2	E
20251009.03	0.46	SE	3.1	2	S
20251009.06	0.49	S	3.1	1	NE
20251009.09	0.49	SW	3.1	1	NW
20251009.12	0.44	SW	3.2	2	N
20251009.15	0.38	S	3.3	3	NE
20251009.18	0.38	S	2.9	4	NW
20251009.21	0.45	S	2.6	5	N
20251010.00	0.49	S	2.7	5	S
20251010.03	0.50	SW	2.9	5	S
20251010.06	0.46	SW	3.1	4	E
20251010.09	0.41	SW	3.0	2	E
20251010.12	0.38	SW	2.9	1	N
20251010.15	0.37	SW	2.8	1	SW
20251010.18	0.37	S	2.8	2	SW
20251010.21	0.38	S	2.7	4	S
20251011.00	0.42	SW	2.6	7	E
20251011.03	0.44	SW	2.6	7	SE
20251011.06	0.43	SW	2.8	7	NE
20251011.09	0.46	SW	3.0	5	NE
20251011.12	0.48	SW	3.2	6	NW

Wind condition in the Aktau

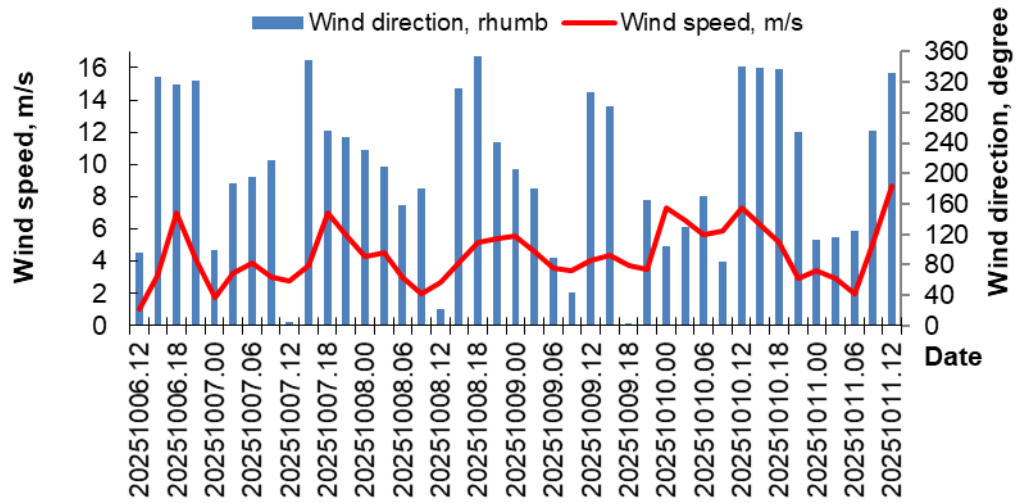


Wave condition in the Aktau

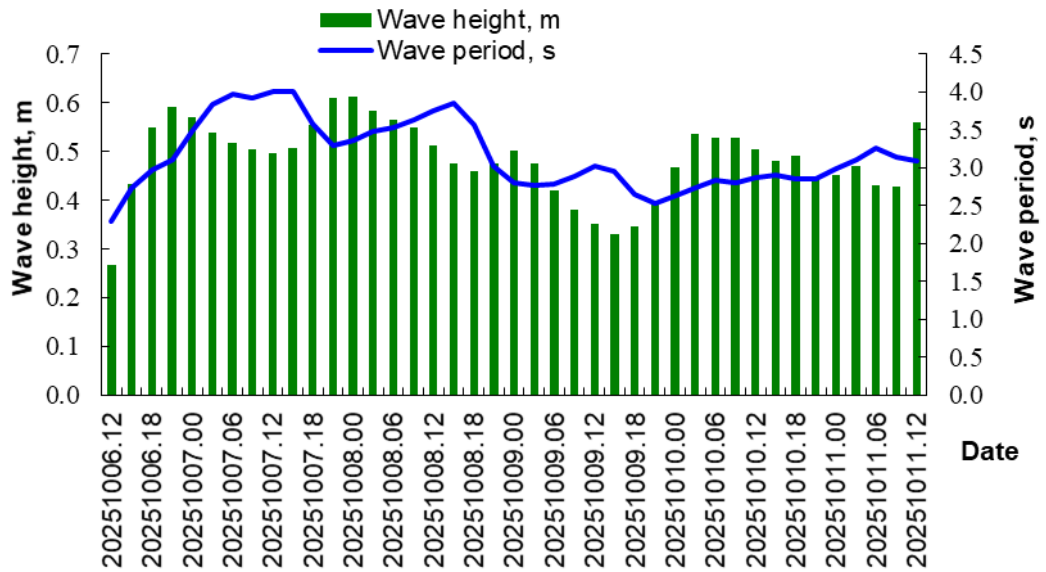


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20251006.12	0.42	N	2.5	4	S
20251006.15	0.58	N	3.0	3	S
20251006.18	0.67	N	3.4	1	NW
20251006.21	0.68	N	3.7	0	E
20251007.00	0.65	N	3.9	3	E
20251007.03	0.60	NW	4.0	3	SE
20251007.06	0.56	NW	4.1	1	E
20251007.09	0.52	NW	4.1	2	S
20251007.12	0.51	NW	4.0	2	S
20251007.15	0.53	NW	3.7	2	SE
20251007.18	0.55	NW	3.6	6	N
20251007.21	0.56	W	3.6	5	W
20251008.00	0.54	NW	3.8	3	SW
20251008.03	0.52	N	4.0	4	S
20251008.06	0.52	N	3.7	5	E
20251008.09	0.53	N	3.5	3	E
20251008.12	0.50	NE	3.6	2	N
20251008.15	0.47	NE	3.7	4	NW
20251008.18	0.46	E	3.3	6	N
20251008.21	0.49	SE	2.9	6	W
20251009.00	0.48	SE	2.8	5	S
20251009.03	0.44	S	2.8	5	E
20251009.06	0.45	SW	2.7	5	E
20251009.09	0.44	W	2.7	3	SE
20251009.12	0.39	W	2.8	1	E
20251009.15	0.34	SW	2.9	2	NW
20251009.18	0.38	S	2.6	4	W
20251009.21	0.48	S	2.5	5	SW
20251010.00	0.54	SW	2.6	7	E
20251010.03	0.56	W	2.8	5	E
20251010.06	0.54	W	3.0	4	SE
20251010.09	0.52	W	3.0	3	S
20251010.12	0.49	W	3.0	7	NW
20251010.15	0.43	SW	2.9	5	NW
20251010.18	0.42	SW	2.9	4	NW
20251010.21	0.40	S	2.8	4	SW
20251011.00	0.46	SW	2.8	6	E
20251011.03	0.48	W	2.8	5	SE
20251011.06	0.45	W	2.9	3	SE
20251011.09	0.46	W	3.0	2	N
20251011.12	0.48	SW	3.2	7	NW

Wind condition in the Peschanyi

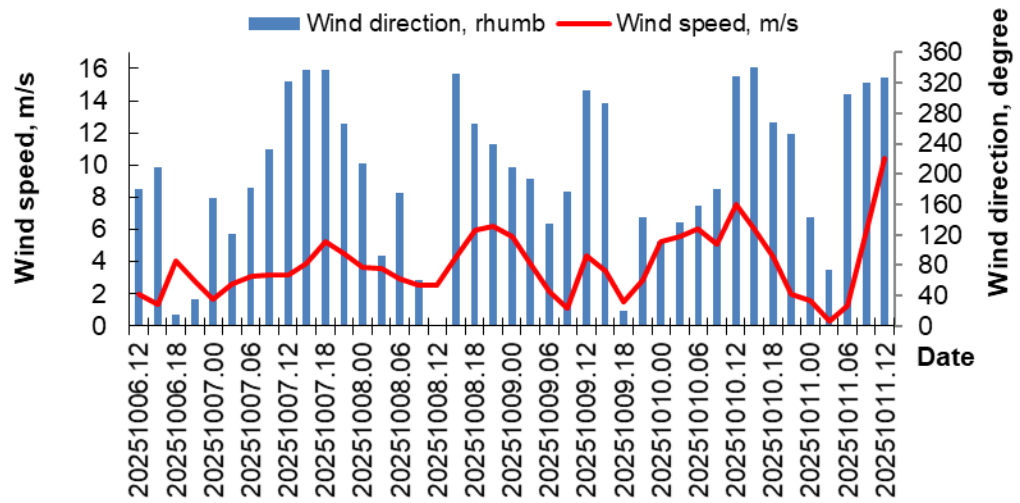


Wave condition in the Peschanyi

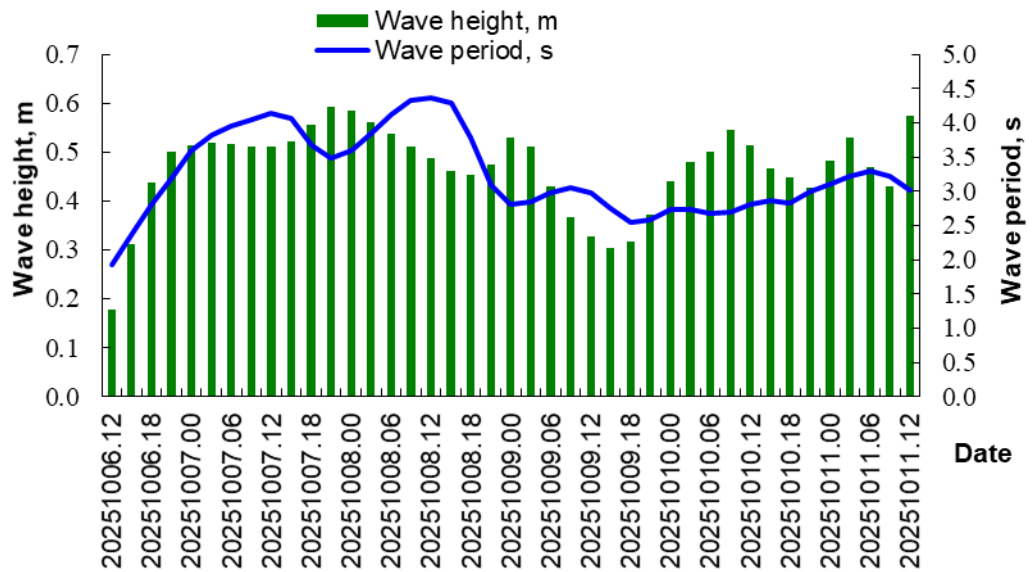


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251006.12	0.27	N	2.3	1	E
20251006.15	0.43	NW	2.7	3	NW
20251006.18	0.55	NW	3.0	7	NW
20251006.21	0.59	NW	3.1	4	NW
20251007.00	0.57	NW	3.5	2	E
20251007.03	0.54	NW	3.8	3	S
20251007.06	0.52	NW	4.0	4	S
20251007.09	0.50	NW	3.9	3	SW
20251007.12	0.50	NW	4.0	3	N
20251007.15	0.51	NW	4.0	4	N
20251007.18	0.56	W	3.6	7	W
20251007.21	0.61	SW	3.3	6	SW
20251008.00	0.61	SW	3.4	4	SW
20251008.03	0.58	SW	3.5	5	SW
20251008.06	0.57	NW	3.5	3	S
20251008.09	0.55	NW	3.6	2	S
20251008.12	0.51	NE	3.8	3	N
20251008.15	0.48	NE	3.9	4	NW
20251008.18	0.46	E	3.6	5	N
20251008.21	0.47	SE	3.0	5	SW
20251009.00	0.50	S	2.8	6	SW
20251009.03	0.48	SW	2.8	5	S
20251009.06	0.42	SW	2.8	4	E
20251009.09	0.38	SW	2.9	3	NE
20251009.12	0.35	W	3.0	4	NW
20251009.15	0.33	SW	3.0	4	W
20251009.18	0.35	S	2.7	4	N
20251009.21	0.39	S	2.5	3	S
20251010.00	0.47	SW	2.6	7	E
20251010.03	0.54	W	2.7	6	SE
20251010.06	0.53	W	2.8	6	S
20251010.09	0.53	W	2.8	6	E
20251010.12	0.51	W	2.9	7	N
20251010.15	0.48	SW	2.9	6	N
20251010.18	0.49	S	2.8	5	NW
20251010.21	0.44	S	2.9	3	W
20251011.00	0.45	SW	3.0	3	E
20251011.03	0.47	SW	3.1	3	SE
20251011.06	0.43	SW	3.3	2	SE
20251011.09	0.43	SW	3.1	5	W
20251011.12	0.56	S	3.1	9	NW

Wind condition in the Fetisovo

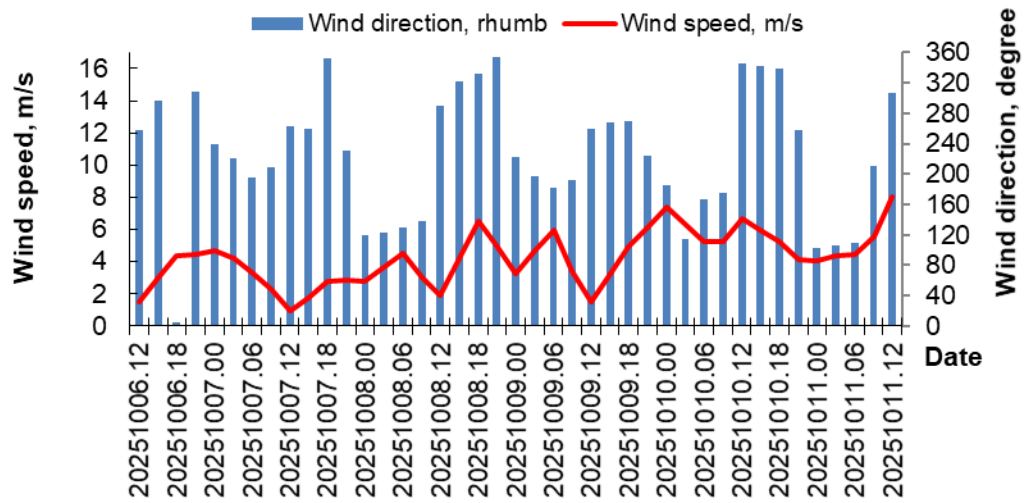


Wave condition in the Fetisovo

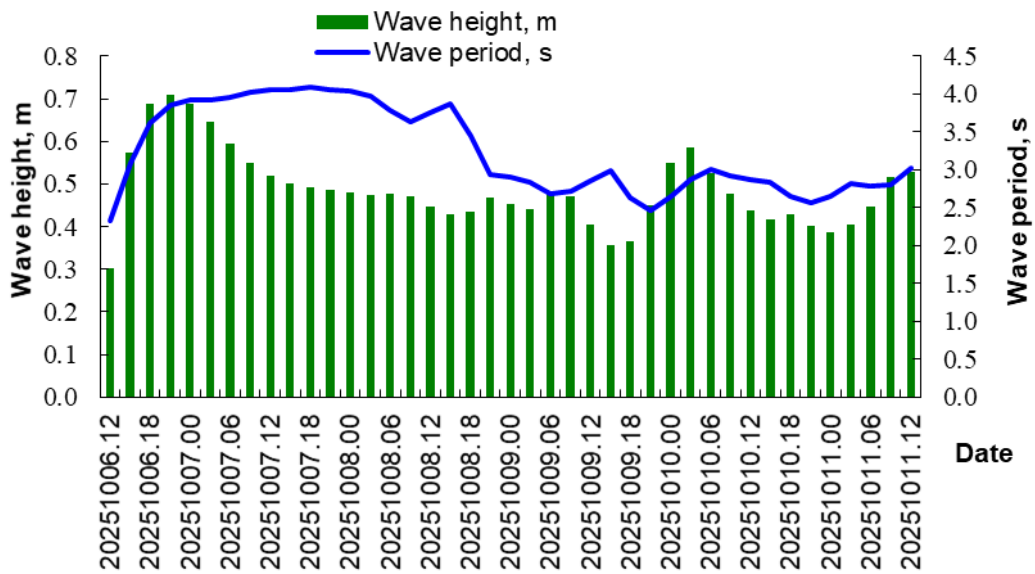


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251006.12	0.18	NW	1.9	2	S
20251006.15	0.31	NW	2.4	1	SW
20251006.18	0.44	W	2.8	4	N
20251006.21	0.50	W	3.2	3	NE
20251007.00	0.52	W	3.6	2	S
20251007.03	0.52	W	3.8	3	SE
20251007.06	0.52	NW	4.0	3	S
20251007.09	0.51	NW	4.0	3	SW
20251007.12	0.51	NW	4.1	3	NW
20251007.15	0.52	N	4.1	4	NW
20251007.18	0.56	N	3.7	5	N
20251007.21	0.59	E	3.5	5	W
20251008.00	0.59	NE	3.6	4	SW
20251008.03	0.56	NE	3.8	4	E
20251008.06	0.54	N	4.1	3	S
20251008.09	0.51	NE	4.3	3	NE
20251008.12	0.49	NE	4.4	3	N
20251008.15	0.46	NE	4.3	4	NW
20251008.18	0.45	NE	3.8	6	W
20251008.21	0.47	SE	3.1	6	SW
20251009.00	0.53	SW	2.8	6	SW
20251009.03	0.51	SW	2.8	4	S
20251009.06	0.43	W	3.0	2	SE
20251009.09	0.37	W	3.1	1	S
20251009.12	0.33	W	3.0	4	NW
20251009.15	0.30	W	2.8	3	NW
20251009.18	0.32	SW	2.5	2	N
20251009.21	0.37	SW	2.6	3	SE
20251010.00	0.44	SW	2.7	5	E
20251010.03	0.48	W	2.7	6	SE
20251010.06	0.50	W	2.7	6	S
20251010.09	0.54	NW	2.7	5	S
20251010.12	0.51	NW	2.8	8	NW
20251010.15	0.47	W	2.9	6	N
20251010.18	0.45	SW	2.8	4	W
20251010.21	0.43	SW	3.0	2	W
20251011.00	0.48	SW	3.1	2	SE
20251011.03	0.53	W	3.2	0	E
20251011.06	0.47	W	3.3	1	NW
20251011.09	0.43	W	3.2	6	NW
20251011.12	0.58	S	3.0	10	NW

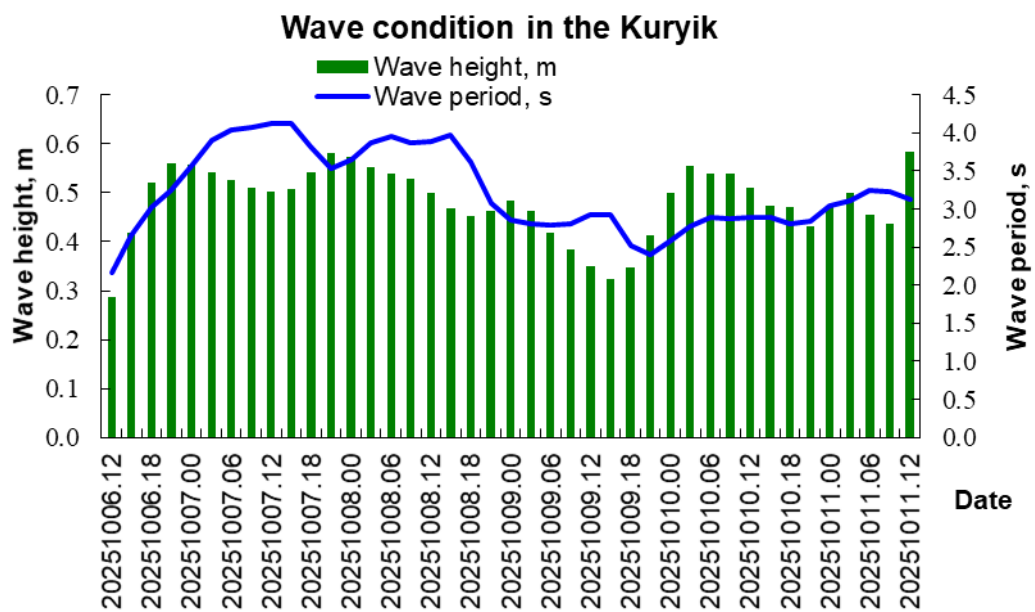
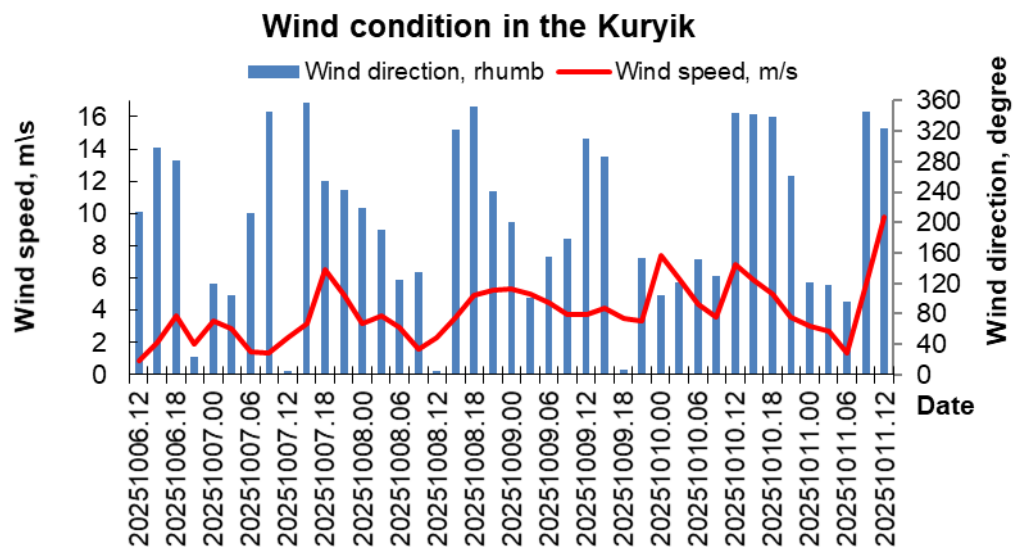
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251006.12	0.30	N	2.3	2	W
20251006.15	0.57	N	3.1	3	NW
20251006.18	0.69	N	3.6	4	N
20251006.21	0.71	N	3.9	4	NW
20251007.00	0.69	N	3.9	5	SW
20251007.03	0.65	N	3.9	4	SW
20251007.06	0.59	NW	4.0	3	S
20251007.09	0.55	NW	4.0	2	SW
20251007.12	0.52	NW	4.1	1	W
20251007.15	0.50	NW	4.1	2	W
20251007.18	0.49	NW	4.1	3	N
20251007.21	0.49	NW	4.1	3	SW
20251008.00	0.48	NW	4.0	3	SE
20251008.03	0.48	NW	4.0	4	SE
20251008.06	0.48	N	3.8	5	SE
20251008.09	0.47	NE	3.6	3	SE
20251008.12	0.45	NE	3.8	2	W
20251008.15	0.43	E	3.9	4	NW
20251008.18	0.44	E	3.4	7	NW
20251008.21	0.47	SE	2.9	5	N
20251009.00	0.45	SE	2.9	3	SW
20251009.03	0.44	SE	2.8	5	S
20251009.06	0.48	S	2.7	6	S
20251009.09	0.47	SW	2.7	3	S
20251009.12	0.41	SW	2.9	1	W
20251009.15	0.36	S	3.0	3	W
20251009.18	0.37	S	2.6	5	W
20251009.21	0.45	S	2.5	6	SW
20251010.00	0.55	SW	2.7	7	S
20251010.03	0.59	SW	2.9	6	SE
20251010.06	0.53	SW	3.0	5	S
20251010.09	0.48	SW	2.9	5	S
20251010.12	0.44	W	2.9	7	N
20251010.15	0.42	SW	2.8	6	N
20251010.18	0.43	S	2.7	5	N
20251010.21	0.40	S	2.6	4	W
20251011.00	0.39	S	2.7	4	E
20251011.03	0.41	SW	2.8	4	E
20251011.06	0.45	W	2.8	4	E
20251011.09	0.52	W	2.8	6	SW
20251011.12	0.53	SW	3.0	8	NW



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251006.12	0.29	C3	2.2	1	Ю3
20251006.15	0.42	C3	2.7	2	C3
20251006.18	0.52	C3	3.0	4	3
20251006.21	0.56	C3	3.2	2	CB
20251007.00	0.56	C3	3.6	3	ЮB
20251007.03	0.54	C3	3.9	3	B
20251007.06	0.53	C3	4.0	1	Ю3
20251007.09	0.51	C3	4.1	1	C
20251007.12	0.50	C3	4.1	2	C
20251007.15	0.51	C3	4.1	3	C
20251007.18	0.54	C3	3.8	7	3
20251007.21	0.58	3	3.5	5	Ю3
20251008.00	0.57	C3	3.6	3	Ю3
20251008.03	0.55	C	3.9	4	Ю
20251008.06	0.54	C	4.0	3	ЮB
20251008.09	0.53	C	3.9	2	ЮB
20251008.12	0.50	CB	3.9	2	C
20251008.15	0.47	CB	4.0	4	C3
20251008.18	0.45	B	3.6	5	C
20251008.21	0.46	ЮB	3.1	5	Ю3
20251009.00	0.48	Ю	2.9	5	Ю
20251009.03	0.46	Ю3	2.8	5	B
20251009.06	0.42	3	2.8	4	ЮB
20251009.09	0.39	3	2.8	4	Ю
20251009.12	0.35	3	2.9	4	C3
20251009.15	0.32	3	2.9	4	3
20251009.18	0.35	Ю3	2.5	3	C
20251009.21	0.41	Ю	2.4	3	ЮB
20251010.00	0.50	Ю3	2.6	7	B
20251010.03	0.56	3	2.8	6	ЮB
20251010.06	0.54	3	2.9	4	ЮB
20251010.09	0.54	3	2.9	4	ЮB
20251010.12	0.51	3	2.9	7	C
20251010.15	0.47	Ю3	2.9	6	C
20251010.18	0.47	Ю	2.8	5	C
20251010.21	0.43	Ю	2.8	4	3
20251011.00	0.47	Ю3	3.0	3	ЮB
20251011.03	0.50	3	3.1	3	ЮB
20251011.06	0.45	3	3.3	1	B
20251011.09	0.44	Ю3	3.2	6	C
20251011.12	0.58	Ю	3.1	10	C3

**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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