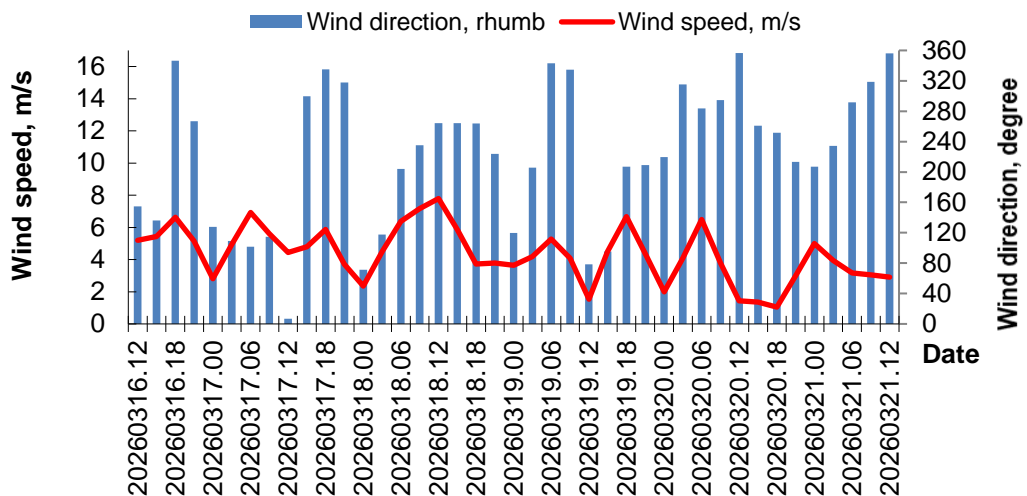




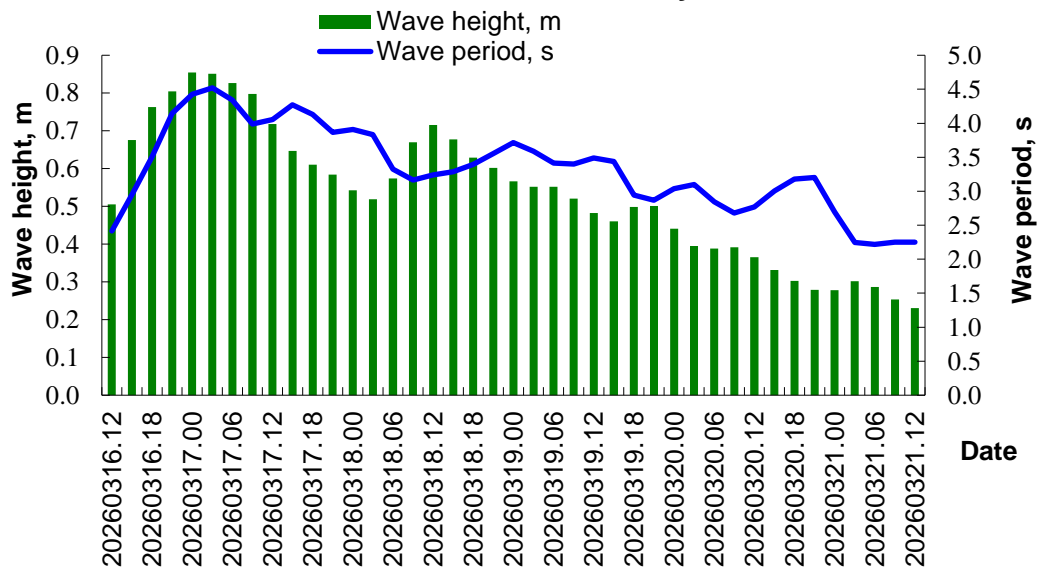
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period March 16-21, 2026 .**

Wind condition in the Kulaly

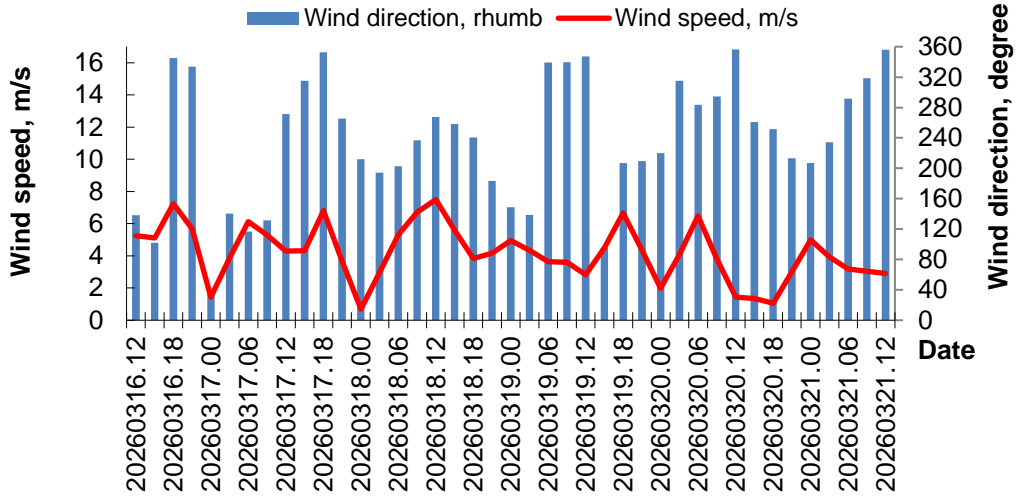


Wave condition in the Kulaly

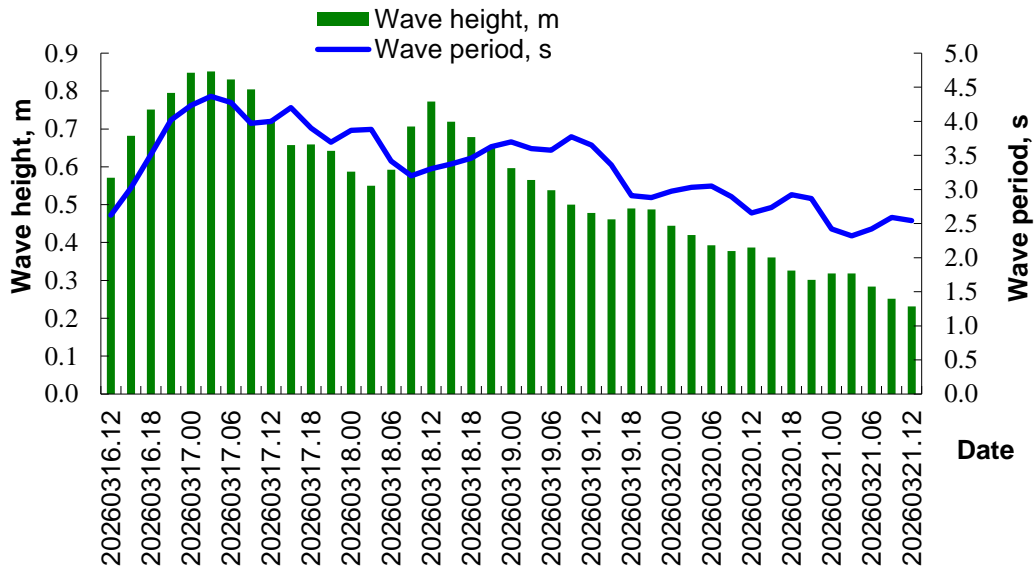


Date time	Kulaly				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260316.12	0.51	NW	2.4	5	SE
20260316.15	0.68	NW	3.0	5	SE
20260316.18	0.76	NW	3.5	7	N
20260316.21	0.80	NW	4.1	5	W
20260317.00	0.85	NW	4.4	3	SE
20260317.03	0.85	NW	4.5	5	E
20260317.06	0.83	NW	4.3	7	E
20260317.09	0.80	NW	4.0	6	SE
20260317.12	0.72	NW	4.1	4	N
20260317.15	0.65	W	4.3	5	NW
20260317.18	0.61	W	4.1	6	NW
20260317.21	0.58	W	3.9	4	NW
20260318.00	0.54	W	3.9	2	E
20260318.03	0.52	SW	3.8	4	SE
20260318.06	0.57	SW	3.3	6	SW
20260318.09	0.67	SW	3.2	7	SW
20260318.12	0.72	SW	3.2	8	W
20260318.15	0.68	SW	3.3	6	W
20260318.18	0.63	SW	3.4	4	W
20260318.21	0.60	SW	3.6	4	SW
20260319.00	0.57	SW	3.7	4	SE
20260319.03	0.55	SW	3.6	4	SW
20260319.06	0.55	SW	3.4	5	N
20260319.09	0.52	S	3.4	4	NW
20260319.12	0.48	S	3.5	2	E
20260319.15	0.46	S	3.4	5	E
20260319.18	0.50	SW	2.9	7	SW
20260319.21	0.50	SW	2.9	4	SW
20260320.00	0.44	SW	3.0	2	SW
20260320.03	0.40	SW	3.1	4	NW
20260320.06	0.39	SW	2.8	6	W
20260320.09	0.39	S	2.7	4	NW
20260320.12	0.37	S	2.8	1	N
20260320.15	0.33	SW	3.0	1	W
20260320.18	0.30	SW	3.2	1	W
20260320.21	0.28	SW	3.2	3	SW
20260321.00	0.28	SW	2.7	5	SW
20260321.03	0.30	SW	2.2	4	SW
20260321.06	0.29	SW	2.2	3	W
20260321.09	0.25	SW	2.3	3	NW
20260321.12	0.23	SW	2.3	3	N

Wind condition in the Fort-Shevchenko

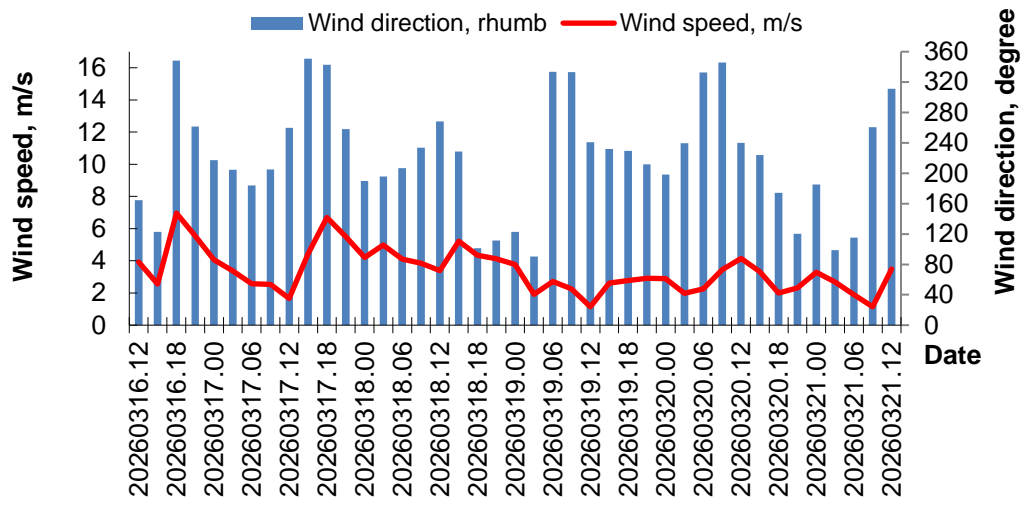


Wave condition in the Fort-Shevchenko

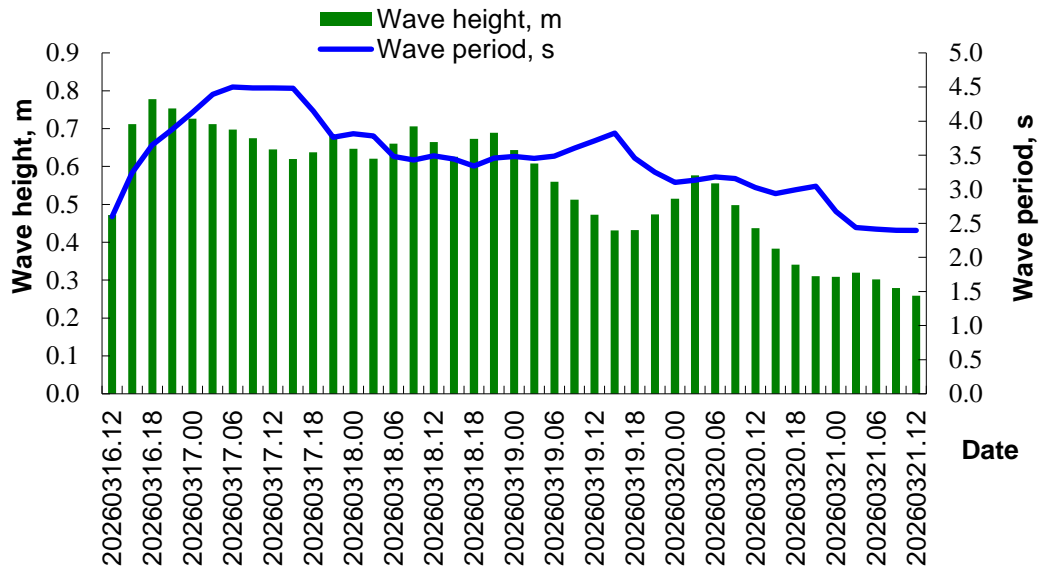


Date time	Fort-Shevchenko				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260316.12	0.57	NW	2.6	5	SE
20260316.15	0.68	NW	3.0	5	E
20260316.18	0.75	NW	3.5	7	N
20260316.21	0.80	NW	4.0	6	NW
20260317.00	0.85	NW	4.2	1	NE
20260317.03	0.85	NW	4.4	4	SE
20260317.06	0.83	NW	4.3	6	SE
20260317.09	0.80	NW	4.0	5	SE
20260317.12	0.73	NW	4.0	4	W
20260317.15	0.66	NW	4.2	4	NW
20260317.18	0.66	W	3.9	7	N
20260317.21	0.64	SW	3.7	4	W
20260318.00	0.59	SW	3.9	1	SW
20260318.03	0.55	SW	3.9	3	S
20260318.06	0.59	SW	3.4	5	S
20260318.09	0.71	SW	3.2	7	SW
20260318.12	0.77	SW	3.3	8	W
20260318.15	0.72	SW	3.4	6	W
20260318.18	0.68	SW	3.5	4	SW
20260318.21	0.65	SW	3.6	4	S
20260319.00	0.60	SW	3.7	5	SE
20260319.03	0.57	SW	3.6	4	SE
20260319.06	0.54	SW	3.6	4	N
20260319.09	0.50	SW	3.8	4	N
20260319.12	0.48	SW	3.7	3	N
20260319.15	0.46	SW	3.4	5	E
20260319.18	0.49	SW	2.9	7	SW
20260319.21	0.49	SW	2.9	4	SW
20260320.00	0.44	SW	3.0	2	SW
20260320.03	0.42	SW	3.0	4	NW
20260320.06	0.39	SW	3.1	6	W
20260320.09	0.38	SW	2.9	4	NW
20260320.12	0.39	SW	2.7	1	N
20260320.15	0.36	SW	2.7	1	W
20260320.18	0.33	SW	2.9	1	W
20260320.21	0.30	SW	2.9	3	SW
20260321.00	0.32	SW	2.4	5	SW
20260321.03	0.32	SW	2.3	4	SW
20260321.06	0.28	SW	2.4	3	W
20260321.09	0.25	SW	2.6	3	NW
20260321.12	0.23	SW	2.5	3	N

Wind condition in the Aktau

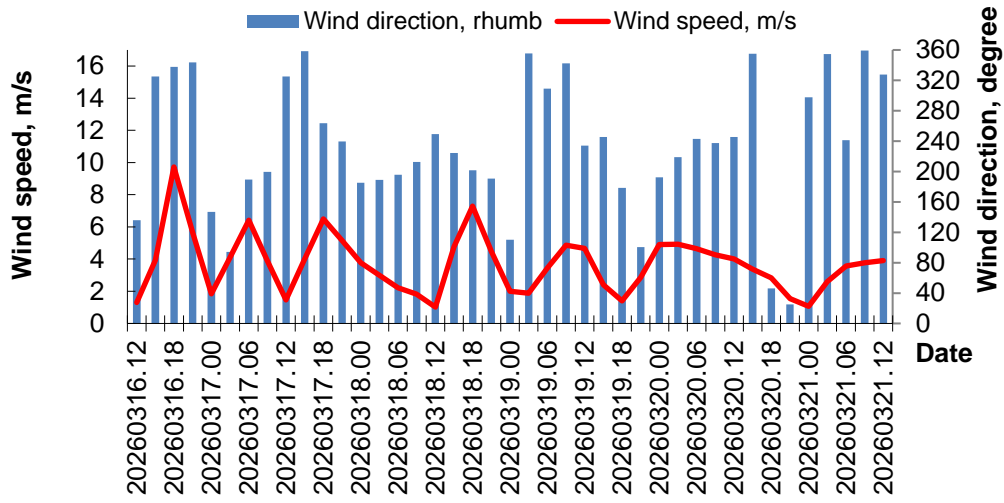


Wave condition in the Aktau

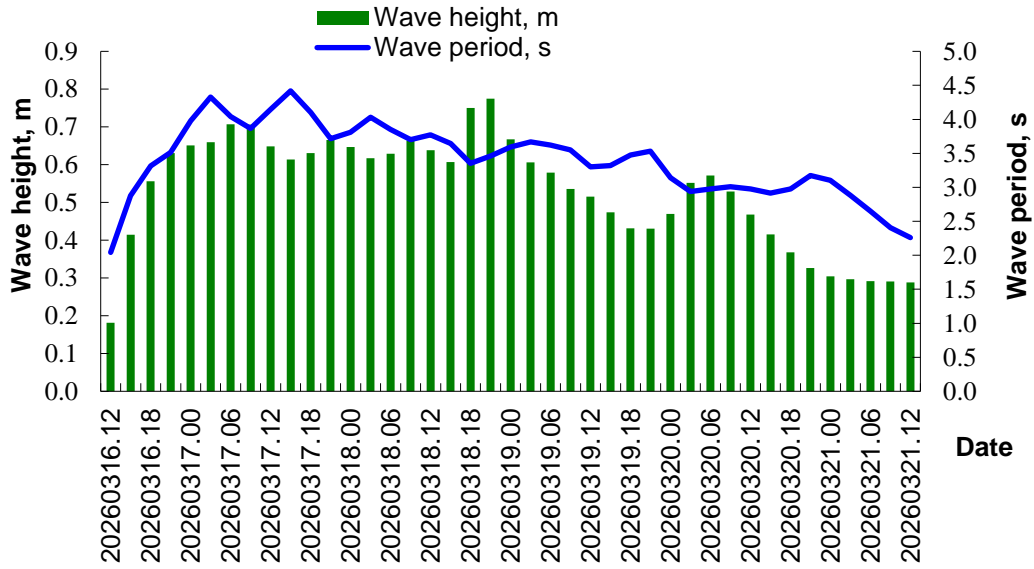


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260316.12	0.47	N	2.6	4	S
20260316.15	0.71	NW	3.2	3	SE
20260316.18	0.78	NW	3.6	7	N
20260316.21	0.75	NW	3.9	6	W
20260317.00	0.73	NW	4.1	4	SW
20260317.03	0.71	NW	4.4	3	SW
20260317.06	0.70	NW	4.5	3	S
20260317.09	0.67	NW	4.5	3	SW
20260317.12	0.65	NW	4.5	2	W
20260317.15	0.62	NW	4.5	4	N
20260317.18	0.64	W	4.1	7	N
20260317.21	0.68	SW	3.8	6	W
20260318.00	0.65	SW	3.8	4	S
20260318.03	0.62	SW	3.8	5	S
20260318.06	0.66	SW	3.5	4	SW
20260318.09	0.71	SW	3.4	4	SW
20260318.12	0.66	SW	3.5	3	W
20260318.15	0.63	SW	3.4	5	SW
20260318.18	0.67	SW	3.3	4	E
20260318.21	0.69	SW	3.5	4	E
20260319.00	0.64	SW	3.5	4	SE
20260319.03	0.61	SW	3.5	2	E
20260319.06	0.56	SW	3.5	3	NW
20260319.09	0.51	SW	3.6	2	NW
20260319.12	0.47	SW	3.7	1	SW
20260319.15	0.43	SW	3.8	3	SW
20260319.18	0.43	SW	3.5	3	SW
20260319.21	0.47	SW	3.2	3	SW
20260320.00	0.52	SW	3.1	3	S
20260320.03	0.58	SW	3.1	2	SW
20260320.06	0.56	SW	3.2	2	NW
20260320.09	0.50	SW	3.2	3	N
20260320.12	0.44	SW	3.0	4	SW
20260320.15	0.38	SW	2.9	3	SW
20260320.18	0.34	SW	3.0	2	S
20260320.21	0.31	SW	3.0	2	SE
20260321.00	0.31	SW	2.7	3	S
20260321.03	0.32	SW	2.4	3	E
20260321.06	0.30	SW	2.4	2	SE
20260321.09	0.28	SW	2.4	1	W
20260321.12	0.26	SW	2.4	3	NW

Wind condition in the Peschanyi

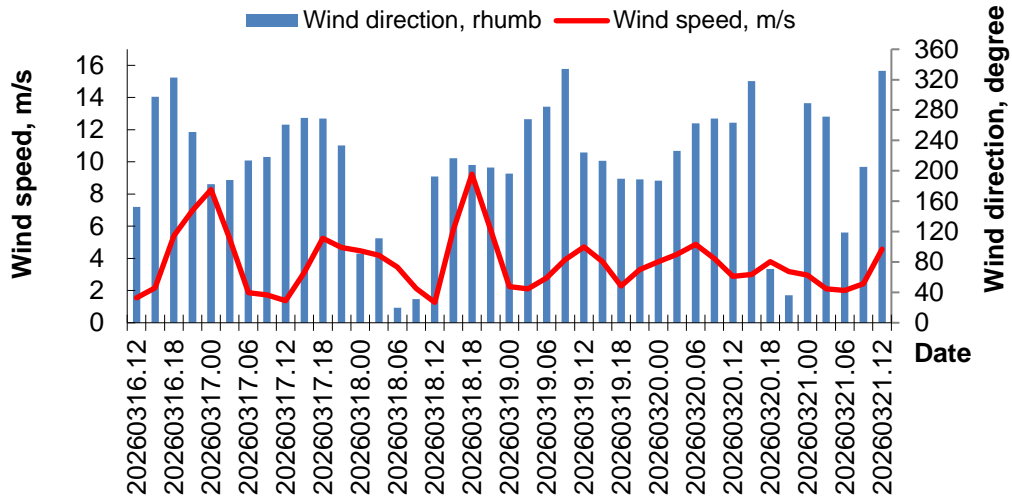


Wave condition in the Peschanyi

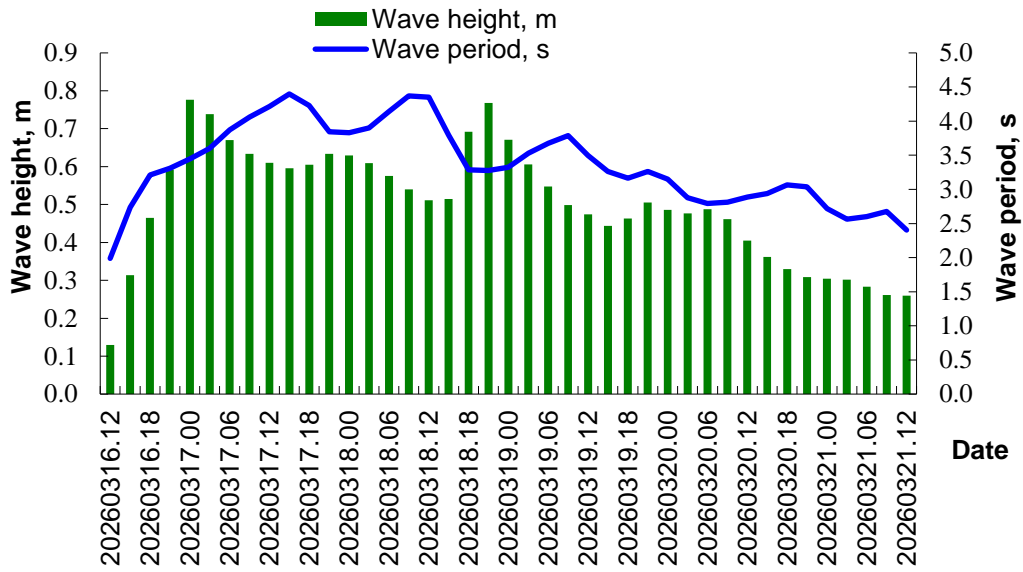


Date time	Peschanyi (Isan)				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260316.12	0.18	N	2.0	1	SE
20260316.15	0.41	NW	2.9	4	NW
20260316.18	0.56	NW	3.3	10	N
20260316.21	0.63	NW	3.5	6	N
20260317.00	0.65	NW	4.0	2	SE
20260317.03	0.66	NW	4.3	4	E
20260317.06	0.71	NW	4.0	6	S
20260317.09	0.71	W	3.9	4	S
20260317.12	0.65	NW	4.1	1	NW
20260317.15	0.61	W	4.4	4	N
20260317.18	0.63	W	4.1	6	W
20260317.21	0.67	W	3.7	5	SW
20260318.00	0.65	SW	3.8	4	S
20260318.03	0.62	SW	4.0	3	S
20260318.06	0.63	SW	3.9	2	S
20260318.09	0.66	SW	3.7	2	SW
20260318.12	0.64	SW	3.8	1	W
20260318.15	0.61	SW	3.6	5	SW
20260318.18	0.75	SW	3.4	7	S
20260318.21	0.77	SW	3.5	4	S
20260319.00	0.67	SW	3.6	2	E
20260319.03	0.61	W	3.7	2	N
20260319.06	0.58	SW	3.6	3	NW
20260319.09	0.54	SW	3.6	5	N
20260319.12	0.52	SW	3.3	5	SW
20260319.15	0.47	SW	3.3	2	SW
20260319.18	0.43	SW	3.5	1	S
20260319.21	0.43	SW	3.5	3	E
20260320.00	0.47	SW	3.1	5	S
20260320.03	0.55	SW	2.9	5	SW
20260320.06	0.57	SW	3.0	5	SW
20260320.09	0.53	SW	3.0	4	SW
20260320.12	0.47	SW	3.0	4	SW
20260320.15	0.42	SW	2.9	3	N
20260320.18	0.37	SW	3.0	3	NE
20260320.21	0.33	SW	3.2	2	NE
20260321.00	0.30	SW	3.1	1	NW
20260321.03	0.30	SW	2.9	3	N
20260321.06	0.29	SW	2.7	4	SW
20260321.09	0.29	SW	2.4	4	N
20260321.12	0.29	SW	2.3	4	NW

Wind condition in the Fetisovo

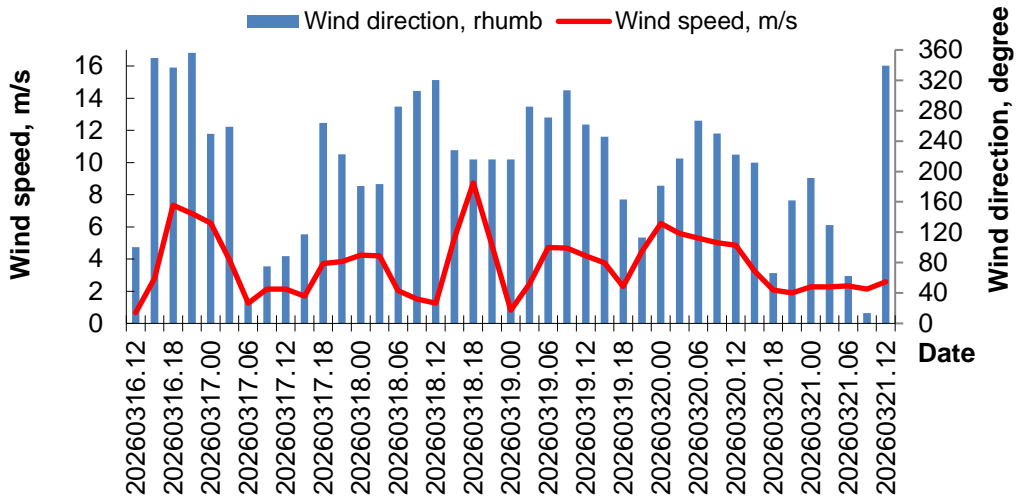


Wave condition in the Fetisovo

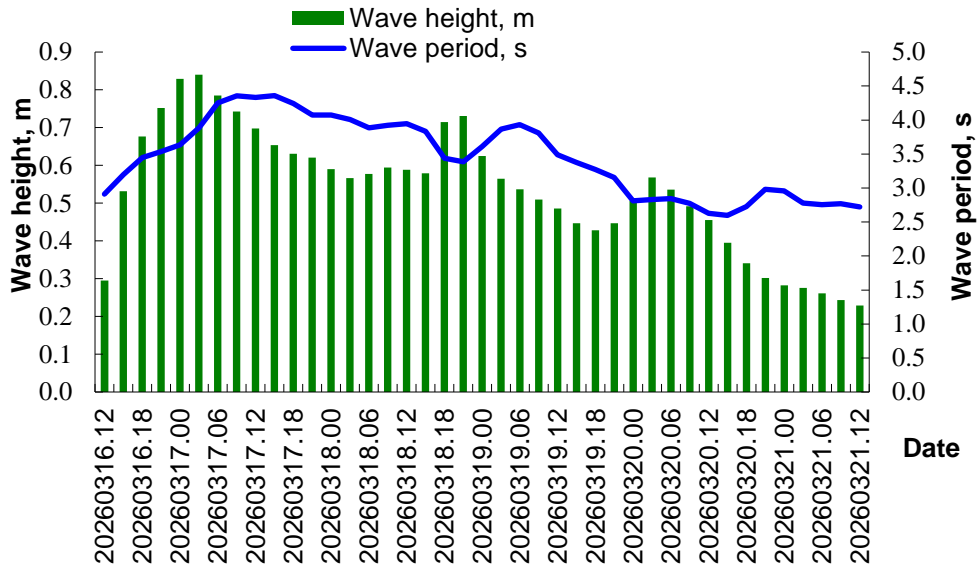


Date time	Fetisovo				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260316.12	0.13	NW	2.0	2	SE
20260316.15	0.31	W	2.7	2	NW
20260316.18	0.46	W	3.2	5	NW
20260316.21	0.59	W	3.3	7	W
20260317.00	0.78	W	3.4	8	S
20260317.03	0.74	W	3.6	5	S
20260317.06	0.67	W	3.9	2	SW
20260317.09	0.63	W	4.1	2	SW
20260317.12	0.61	W	4.2	1	W
20260317.15	0.60	NW	4.4	3	W
20260317.18	0.61	W	4.2	5	W
20260317.21	0.63	W	3.8	5	SW
20260318.00	0.63	W	3.8	4	E
20260318.03	0.61	W	3.9	4	E
20260318.06	0.58	W	4.1	3	N
20260318.09	0.54	W	4.4	2	NE
20260318.12	0.51	W	4.4	1	S
20260318.15	0.51	W	3.8	6	SW
20260318.18	0.69	W	3.3	9	SW
20260318.21	0.77	W	3.3	6	SW
20260319.00	0.67	W	3.3	2	S
20260319.03	0.61	W	3.5	2	W
20260319.06	0.55	W	3.7	3	W
20260319.09	0.50	W	3.8	4	NW
20260319.12	0.47	W	3.5	5	SW
20260319.15	0.44	W	3.3	4	SW
20260319.18	0.46	W	3.2	2	S
20260319.21	0.51	SW	3.3	3	S
20260320.00	0.49	SW	3.2	4	S
20260320.03	0.48	W	2.9	4	SW
20260320.06	0.49	SW	2.8	5	W
20260320.09	0.46	SW	2.8	4	W
20260320.12	0.40	SW	2.9	3	W
20260320.15	0.36	SW	2.9	3	NW
20260320.18	0.33	SW	3.1	4	E
20260320.21	0.31	W	3.0	3	NE
20260321.00	0.30	SW	2.7	3	W
20260321.03	0.30	SW	2.6	2	W
20260321.06	0.28	SW	2.6	2	SE
20260321.09	0.26	SW	2.7	2	SW
20260321.12	0.26	SW	2.4	5	NW

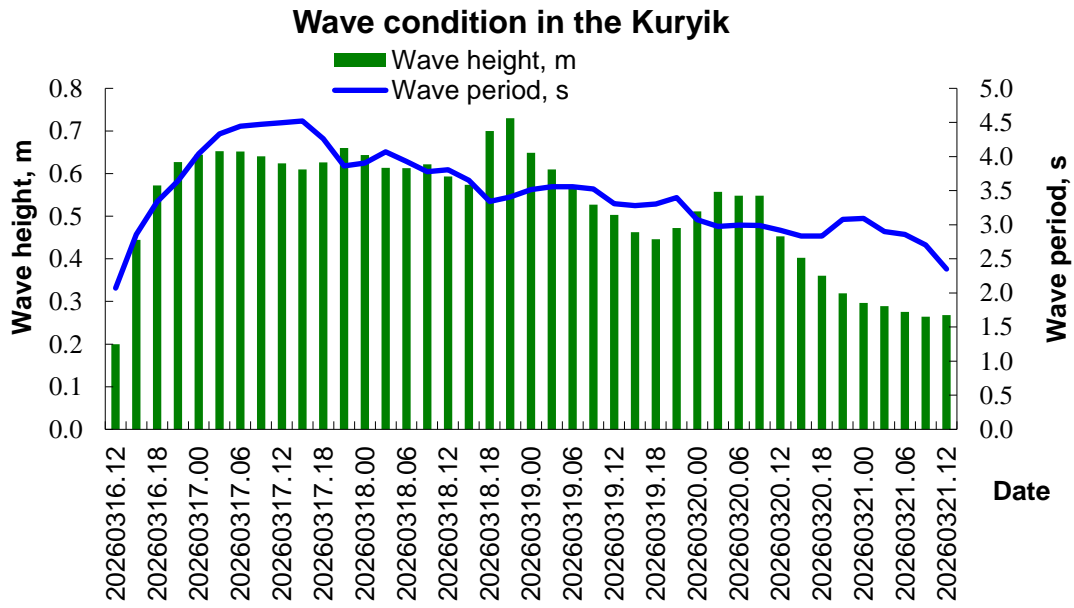
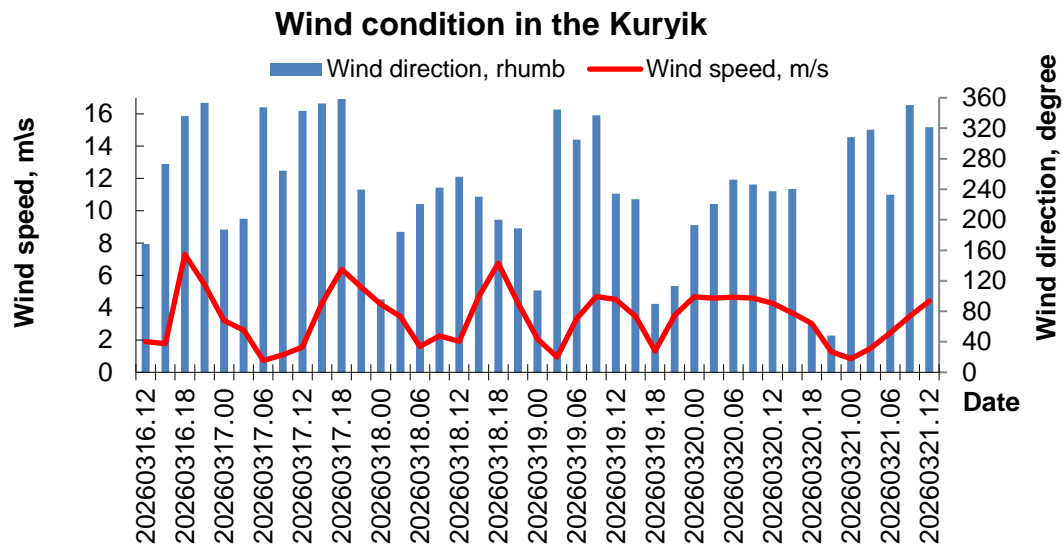
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260316.12	0.30	NW	2.9	1	E
20260316.15	0.53	NW	3.2	3	N
20260316.18	0.68	NW	3.4	7	NW
20260316.21	0.75	NW	3.5	7	N
20260317.00	0.83	NW	3.6	6	W
20260317.03	0.84	NW	3.9	4	W
20260317.06	0.78	NW	4.3	1	NE
20260317.09	0.74	NW	4.4	2	E
20260317.12	0.70	NW	4.3	2	E
20260317.15	0.65	NW	4.4	2	SE
20260317.18	0.63	W	4.2	4	W
20260317.21	0.62	W	4.1	4	SW
20260318.00	0.59	W	4.1	4	S
20260318.03	0.57	SW	4.0	4	S
20260318.06	0.58	SW	3.9	2	W
20260318.09	0.59	SW	3.9	2	NW
20260318.12	0.59	SW	3.9	1	NW
20260318.15	0.58	SW	3.8	5	SW
20260318.18	0.71	SW	3.4	9	SW
20260318.21	0.73	SW	3.4	5	SW
20260319.00	0.62	SW	3.6	1	SW
20260319.03	0.56	SW	3.9	2	W
20260319.06	0.54	SW	3.9	5	W
20260319.09	0.51	SW	3.8	5	NW
20260319.12	0.49	SW	3.5	4	W
20260319.15	0.45	SW	3.4	4	SW
20260319.18	0.43	SW	3.3	2	S
20260319.21	0.45	SW	3.2	4	SE
20260320.00	0.51	SW	2.8	6	S
20260320.03	0.57	SW	2.8	6	SW
20260320.06	0.54	SW	2.8	5	W
20260320.09	0.49	SW	2.8	5	W
20260320.12	0.45	SW	2.6	5	SW
20260320.15	0.40	SW	2.6	3	SW
20260320.18	0.34	SW	2.7	2	NE
20260320.21	0.30	SW	3.0	2	S
20260321.00	0.28	SW	3.0	2	S
20260321.03	0.28	SW	2.8	2	SE
20260321.06	0.26	SW	2.8	2	NE
20260321.09	0.24	SW	2.8	2	N
20260321.12	0.23	SW	2.7	3	N



Date time	Kuryk				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260316.12	0.20	N	2.1	2	S
20260316.15	0.44	NW	2.9	2	W
20260316.18	0.57	NW	3.3	7	NW
20260316.21	0.63	NW	3.6	5	N
20260317.00	0.64	NW	4.0	3	S
20260317.03	0.65	NW	4.3	3	S
20260317.06	0.65	NW	4.4	1	N
20260317.09	0.64	NW	4.5	1	W
20260317.12	0.62	NW	4.5	2	N
20260317.15	0.61	NW	4.5	4	N
20260317.18	0.63	W	4.3	6	N
20260317.21	0.66	W	3.9	5	SW
20260318.00	0.64	W	3.9	4	E
20260318.03	0.61	W	4.1	3	S
20260318.06	0.61	W	3.9	2	SW
20260318.09	0.62	SW	3.8	2	SW
20260318.12	0.59	SW	3.8	2	W
20260318.15	0.57	SW	3.7	5	SW
20260318.18	0.70	SW	3.3	7	S
20260318.21	0.73	SW	3.4	4	S
20260319.00	0.65	SW	3.5	2	E
20260319.03	0.61	W	3.6	1	N
20260319.06	0.57	W	3.6	3	NW
20260319.09	0.53	SW	3.5	5	NW
20260319.12	0.50	SW	3.3	5	SW
20260319.15	0.46	SW	3.3	3	SW
20260319.18	0.45	SW	3.3	1	E
20260319.21	0.47	SW	3.4	4	SE
20260320.00	0.51	SW	3.1	5	S
20260320.03	0.56	SW	3.0	5	SW
20260320.06	0.55	SW	3.0	5	W
20260320.09	0.55	SW	3.0	5	SW
20260320.12	0.45	SW	2.9	4	SW
20260320.15	0.40	SW	2.8	4	SW
20260320.18	0.36	SW	2.8	3	NE
20260320.21	0.32	SW	3.1	1	NE
20260321.00	0.30	SW	3.1	1	NW
20260321.03	0.29	SW	2.9	1	NW
20260321.06	0.28	SW	2.9	2	SW
20260321.09	0.26	SW	2.7	3	N
20260321.12	0.27	SW	2.4	4	NW

*Расчетные характеристики получены при использовании волновой модели SWAN, адаптированного в РГП «Казгидромет» к условиям Каспийского моря.

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Проверила: Шишкина Г.М.

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