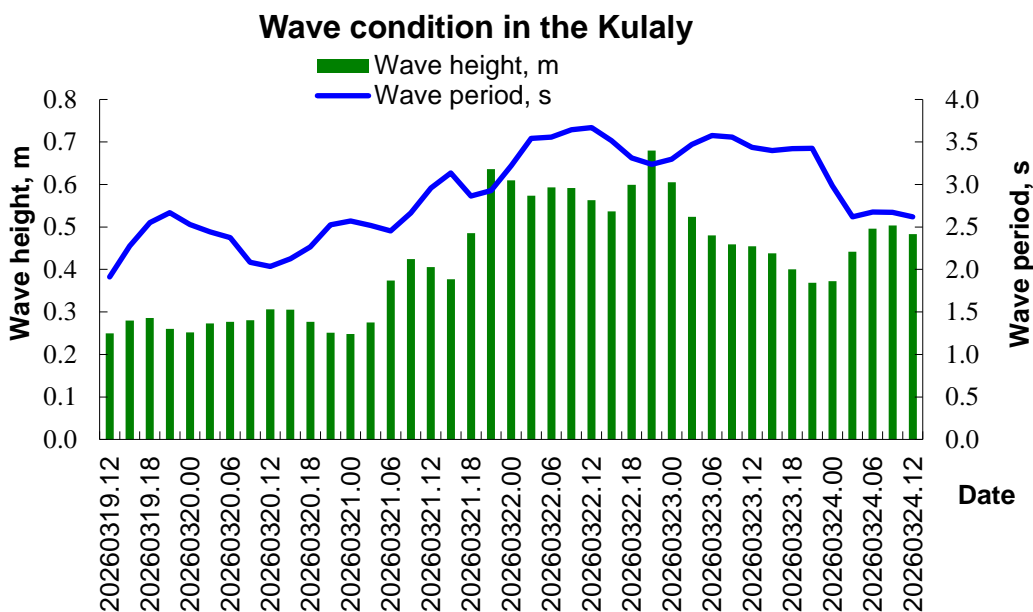
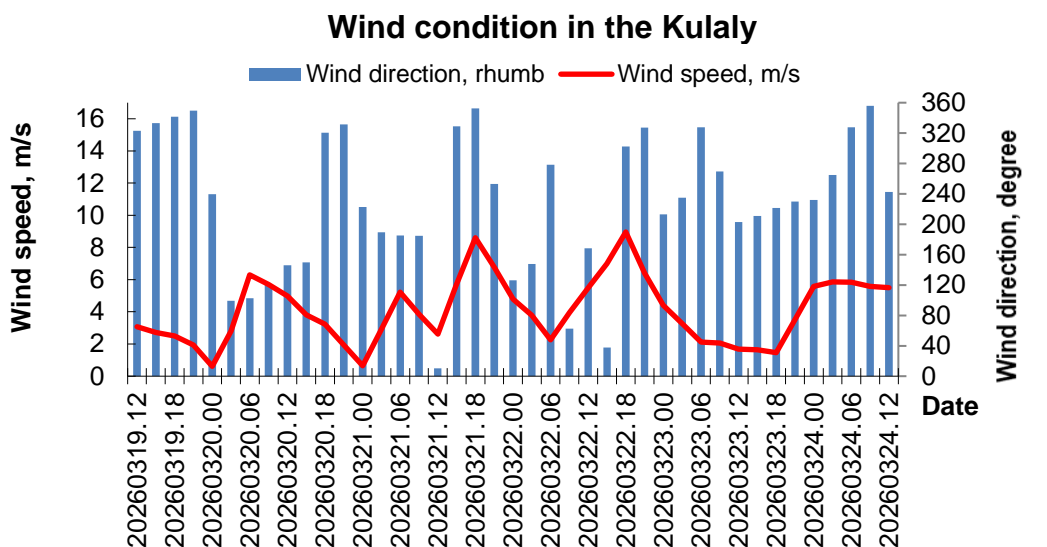




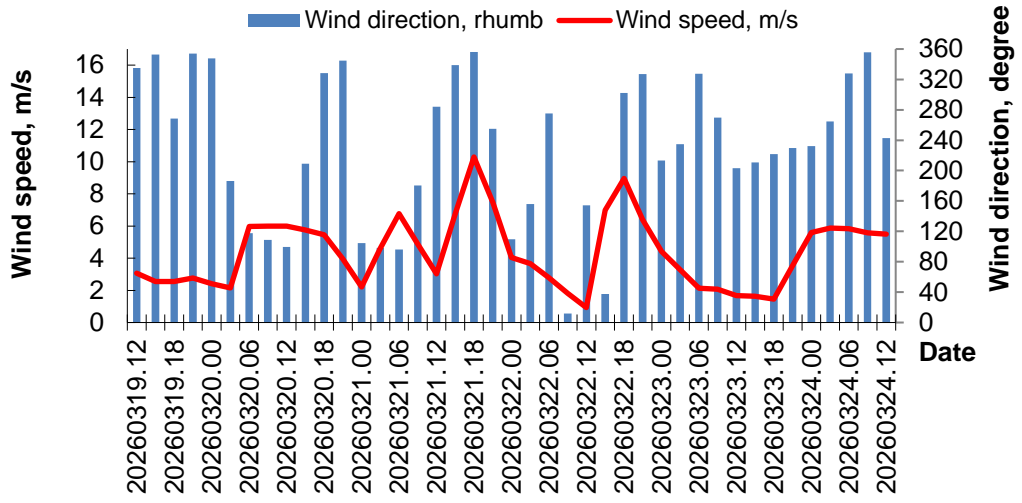
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 19-24, 2026 .**

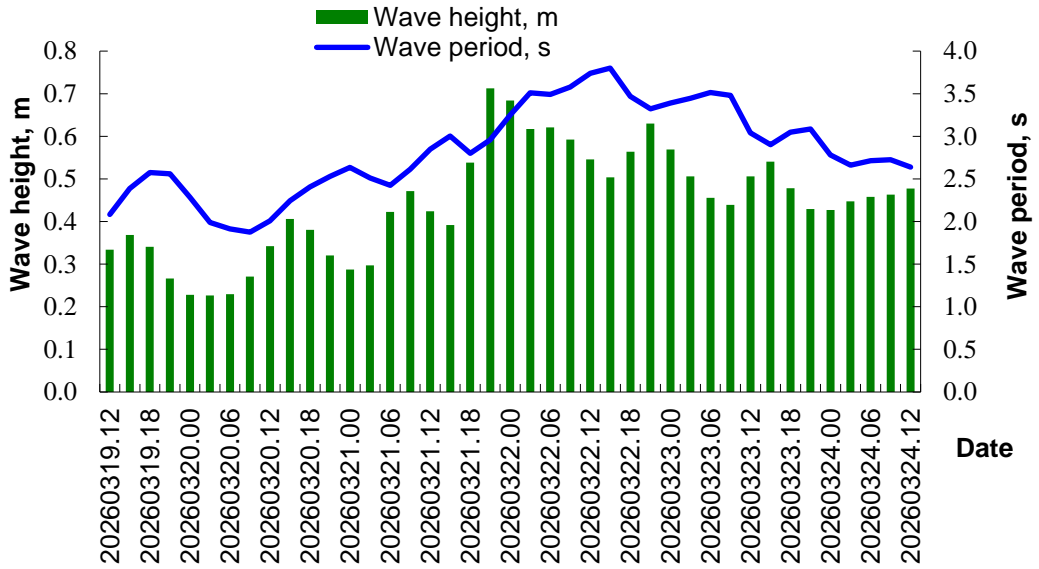


Date time	Kulaly				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260319.12	0.25	SE	1.9	3	NW
20260319.15	0.28	SE	2.3	3	NW
20260319.18	0.29	SE	2.6	2	N
20260319.21	0.26	SE	2.7	2	N
20260320.00	0.25	SE	2.5	1	SW
20260320.03	0.27	SE	2.4	3	E
20260320.06	0.28	E	2.4	6	E
20260320.09	0.28	W	2.1	6	SE
20260320.12	0.31	NW	2.0	5	SE
20260320.15	0.31	NW	2.1	4	SE
20260320.18	0.28	W	2.3	3	NW
20260320.21	0.25	W	2.5	2	NW
20260321.00	0.25	W	2.6	1	SW
20260321.03	0.28	W	2.5	3	S
20260321.06	0.37	W	2.5	5	S
20260321.09	0.42	W	2.7	4	S
20260321.12	0.41	W	3.0	3	N
20260321.15	0.38	W	3.1	6	NW
20260321.18	0.49	SW	2.9	9	N
20260321.21	0.64	S	2.9	7	W
20260322.00	0.61	S	3.2	5	SE
20260322.03	0.57	S	3.5	4	SE
20260322.06	0.59	S	3.6	2	W
20260322.09	0.59	SW	3.6	4	NE
20260322.12	0.56	SW	3.7	5	S
20260322.15	0.54	SW	3.5	7	NE
20260322.18	0.60	SE	3.3	9	NW
20260322.21	0.68	SE	3.2	6	NW
20260323.00	0.61	S	3.3	4	SW
20260323.03	0.52	S	3.5	3	SW
20260323.06	0.48	S	3.6	2	NW
20260323.09	0.46	S	3.6	2	W
20260323.12	0.45	SW	3.4	2	SW
20260323.15	0.44	SW	3.4	2	SW
20260323.18	0.40	S	3.4	1	SW
20260323.21	0.37	S	3.4	4	SW
20260324.00	0.37	S	3.0	6	SW
20260324.03	0.44	S	2.6	6	W
20260324.06	0.50	S	2.7	6	NW
20260324.09	0.50	S	2.7	6	N
20260324.12	0.48	S	2.6	5	SW

Wind condition in the Fort-Shevchenko

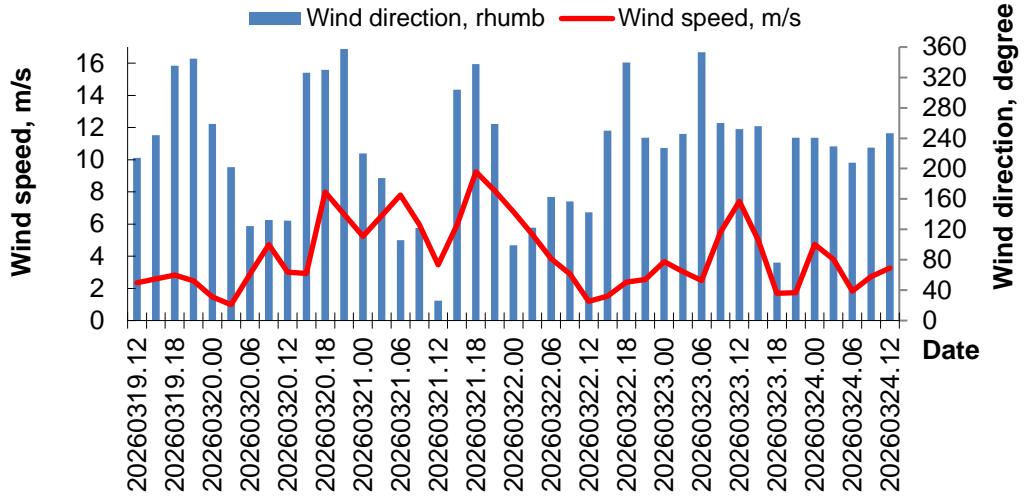


Wave condition in the Fort-Shevchenko

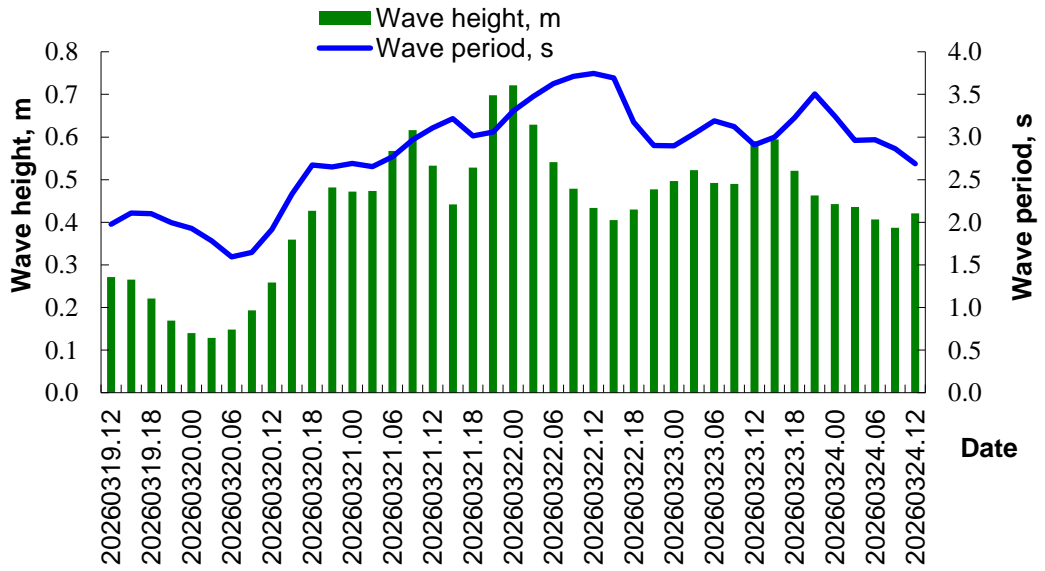


Date time	Fort-Shevchenko				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260319.12	0.33	SE	2.1	3	NW
20260319.15	0.37	SE	2.4	3	N
20260319.18	0.34	SE	2.6	3	W
20260319.21	0.27	SE	2.6	3	N
20260320.00	0.23	SE	2.3	2	N
20260320.03	0.23	SE	2.0	2	S
20260320.06	0.23	S	1.9	6	SE
20260320.09	0.27	W	1.9	6	E
20260320.12	0.34	W	2.0	6	E
20260320.15	0.41	W	2.2	6	SW
20260320.18	0.38	W	2.4	5	NW
20260320.21	0.32	W	2.5	4	N
20260321.00	0.29	W	2.6	2	E
20260321.03	0.30	W	2.5	5	E
20260321.06	0.42	W	2.4	7	E
20260321.09	0.47	W	2.6	5	S
20260321.12	0.42	W	2.9	3	W
20260321.15	0.39	W	3.0	7	N
20260321.18	0.54	S	2.8	10	N
20260321.21	0.71	S	3.0	7	W
20260322.00	0.68	S	3.3	4	E
20260322.03	0.62	S	3.5	4	SE
20260322.06	0.62	SW	3.5	3	W
20260322.09	0.59	SW	3.6	2	N
20260322.12	0.55	SW	3.7	1	SE
20260322.15	0.50	SW	3.8	7	NE
20260322.18	0.56	S	3.5	9	NW
20260322.21	0.63	S	3.3	6	NW
20260323.00	0.57	S	3.4	4	SW
20260323.03	0.51	S	3.4	3	SW
20260323.06	0.46	S	3.5	2	NW
20260323.09	0.44	SW	3.5	2	W
20260323.12	0.51	S	3.0	2	SW
20260323.15	0.54	S	2.9	2	SW
20260323.18	0.48	S	3.0	1	SW
20260323.21	0.43	S	3.1	4	SW
20260324.00	0.43	S	2.8	6	SW
20260324.03	0.45	S	2.7	6	W
20260324.06	0.46	S	2.7	6	NW
20260324.09	0.46	S	2.7	6	N
20260324.12	0.48	S	2.6	5	SW

Wind condition in the Aktau

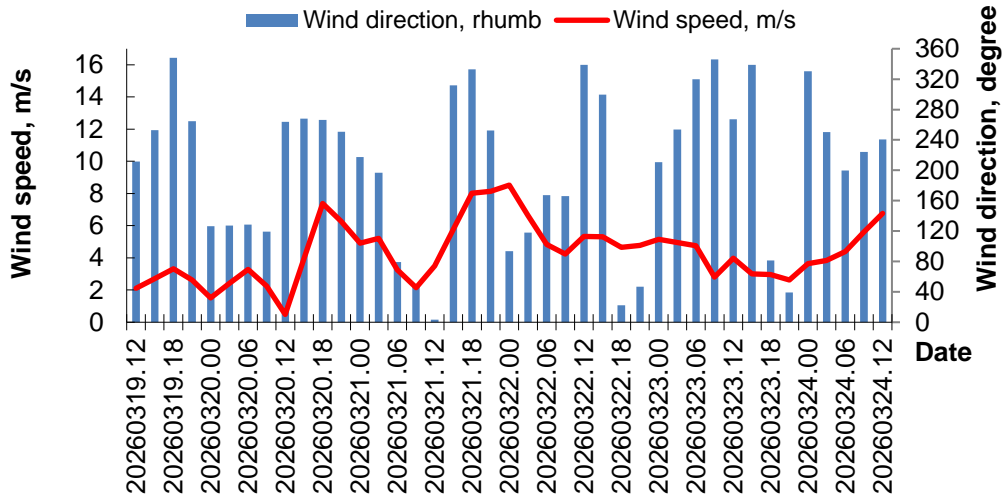


Wave condition in the Aktau

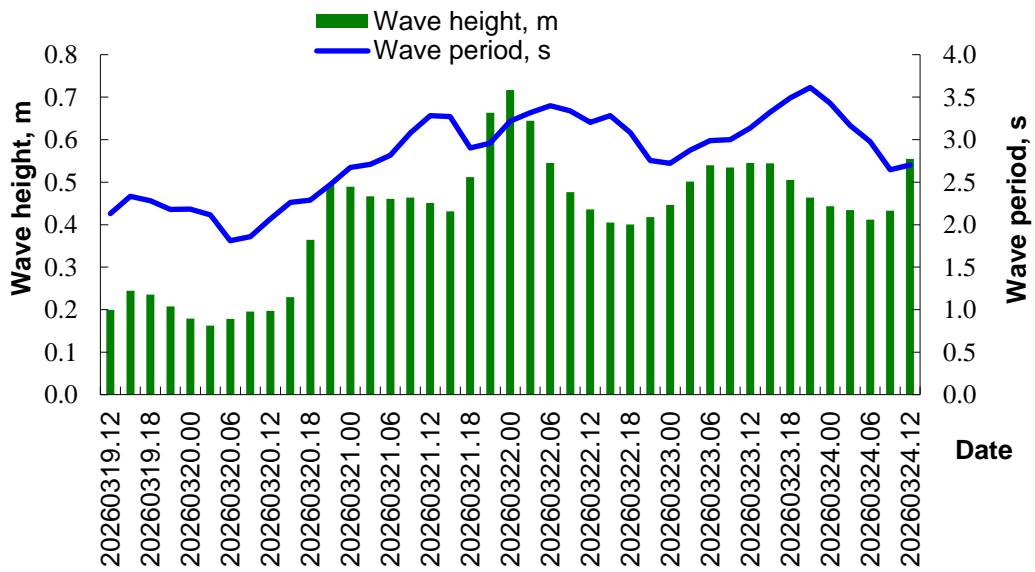


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260319.12	0.27	SW	2.0	2	SW
20260319.15	0.27	SW	2.1	3	SW
20260319.18	0.22	SW	2.1	3	NW
20260319.21	0.17	S	2.0	2	N
20260320.00	0.14	S	1.9	1	W
20260320.03	0.13	S	1.8	1	S
20260320.06	0.15	SW	1.6	3	SE
20260320.09	0.19	W	1.6	5	SE
20260320.12	0.26	NW	1.9	3	SE
20260320.15	0.36	W	2.3	3	NW
20260320.18	0.43	W	2.7	8	NW
20260320.21	0.48	SW	2.6	7	N
20260321.00	0.47	SW	2.7	5	SW
20260321.03	0.47	SW	2.7	7	S
20260321.06	0.57	W	2.8	8	E
20260321.09	0.62	W	3.0	6	SE
20260321.12	0.53	W	3.1	3	NE
20260321.15	0.44	W	3.2	6	NW
20260321.18	0.53	S	3.0	9	NW
20260321.21	0.70	S	3.1	8	W
20260322.00	0.72	S	3.3	7	E
20260322.03	0.63	S	3.5	5	SE
20260322.06	0.54	S	3.6	4	S
20260322.09	0.48	S	3.7	3	SE
20260322.12	0.43	SW	3.7	1	SE
20260322.15	0.40	SW	3.7	2	W
20260322.18	0.43	SW	3.2	2	N
20260322.21	0.48	S	2.9	3	SW
20260323.00	0.50	SW	2.9	4	SW
20260323.03	0.52	SW	3.0	3	SW
20260323.06	0.49	SW	3.2	2	N
20260323.09	0.49	SW	3.1	5	W
20260323.12	0.59	SW	2.9	7	W
20260323.15	0.59	SW	3.0	5	W
20260323.18	0.52	SW	3.2	2	E
20260323.21	0.46	SW	3.5	2	SW
20260324.00	0.44	SW	3.2	5	SW
20260324.03	0.44	SW	3.0	4	SW
20260324.06	0.41	SW	3.0	2	SW
20260324.09	0.39	SW	2.9	3	SW
20260324.12	0.42	SW	2.7	3	SW

Wind condition in the Peschanyi

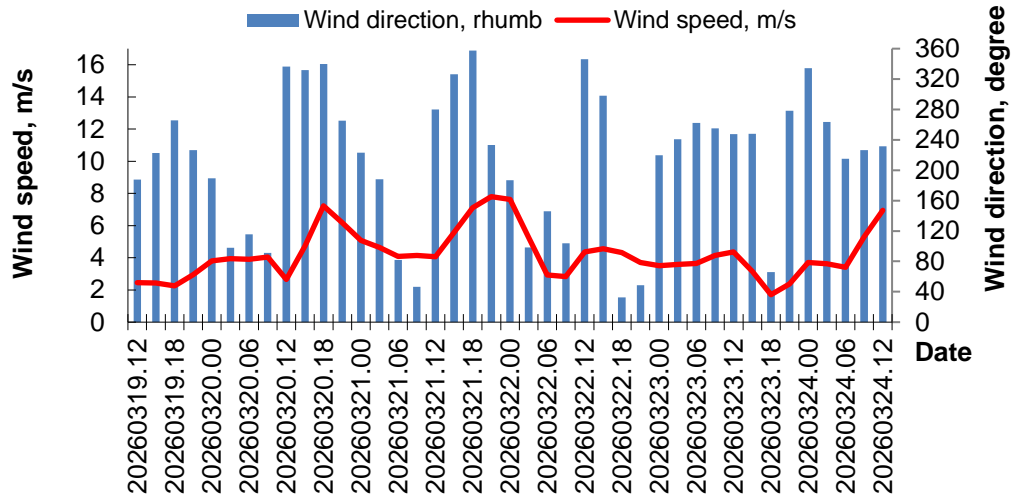


Wave condition in the Peschanyi

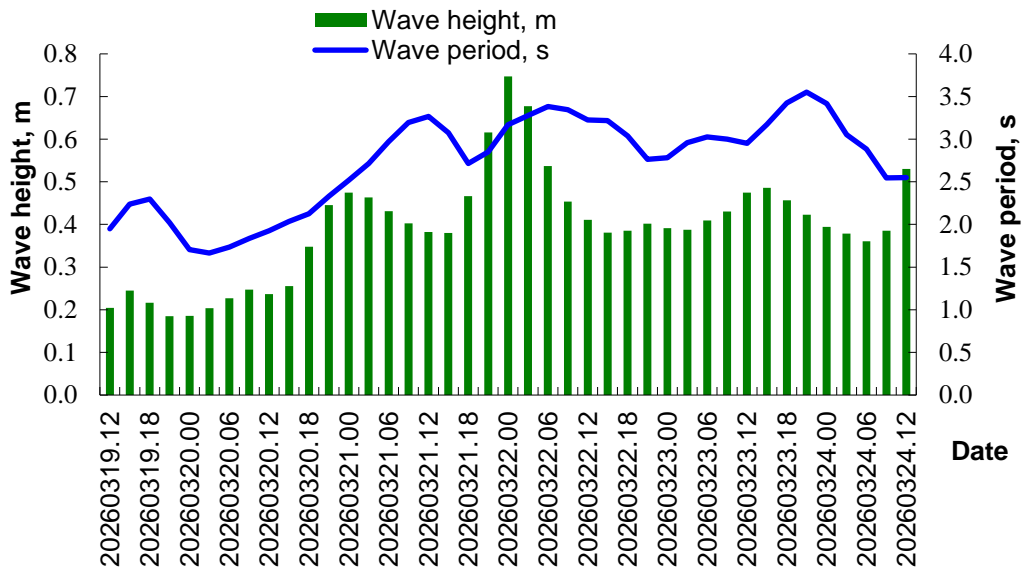


Date time	Peschanyi (Isan)				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260319.12	0.20	SW	2.1	2	SW
20260319.15	0.24	SW	2.3	3	W
20260319.18	0.24	SW	2.3	3	N
20260319.21	0.21	SW	2.2	3	W
20260320.00	0.18	SW	2.2	2	SE
20260320.03	0.16	SW	2.1	2	SE
20260320.06	0.18	SW	1.8	3	SE
20260320.09	0.20	W	1.9	2	SE
20260320.12	0.20	W	2.1	0	W
20260320.15	0.23	W	2.3	4	W
20260320.18	0.36	SW	2.3	7	W
20260320.21	0.49	SW	2.5	6	W
20260321.00	0.49	SW	2.7	5	SW
20260321.03	0.47	SW	2.7	5	S
20260321.06	0.46	SW	2.8	3	E
20260321.09	0.46	W	3.1	2	NE
20260321.12	0.45	W	3.3	3	N
20260321.15	0.43	W	3.3	6	NW
20260321.18	0.51	S	2.9	8	NW
20260321.21	0.66	S	3.0	8	W
20260322.00	0.72	SW	3.2	9	E
20260322.03	0.64	SW	3.3	7	SE
20260322.06	0.55	SW	3.4	5	S
20260322.09	0.48	SW	3.3	4	S
20260322.12	0.44	SW	3.2	5	N
20260322.15	0.40	SW	3.3	5	NW
20260322.18	0.40	SW	3.1	5	N
20260322.21	0.42	S	2.8	5	NE
20260323.00	0.45	SW	2.7	5	SW
20260323.03	0.50	SW	2.9	5	W
20260323.06	0.54	SW	3.0	5	NW
20260323.09	0.53	S	3.0	3	N
20260323.12	0.55	SW	3.1	4	W
20260323.15	0.54	SW	3.3	3	N
20260323.18	0.50	SW	3.5	3	E
20260323.21	0.46	SW	3.6	3	NE
20260324.00	0.44	SW	3.4	4	NW
20260324.03	0.43	SW	3.2	4	W
20260324.06	0.41	SW	3.0	4	S
20260324.09	0.43	SW	2.6	6	SW
20260324.12	0.55	SW	2.7	7	SW

Wind condition in the Fetisovo

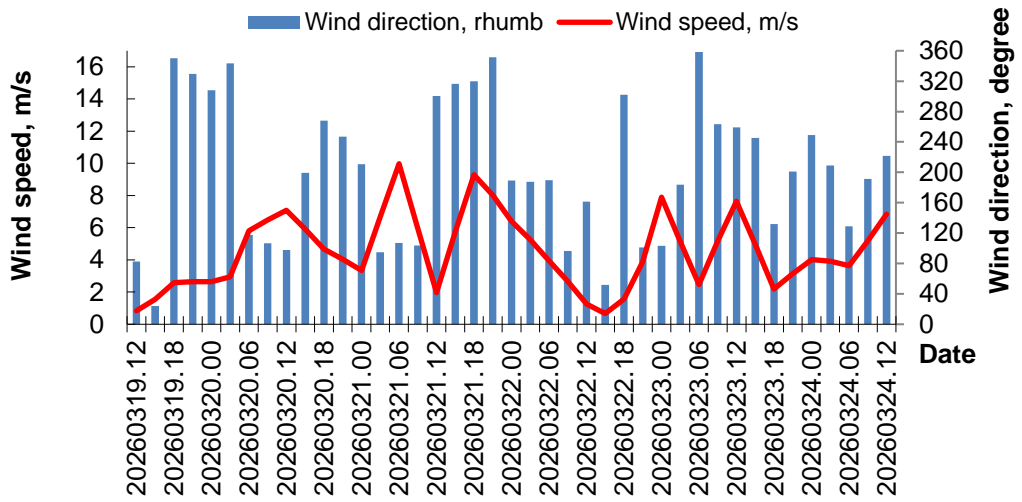


Wave condition in the Fetisovo

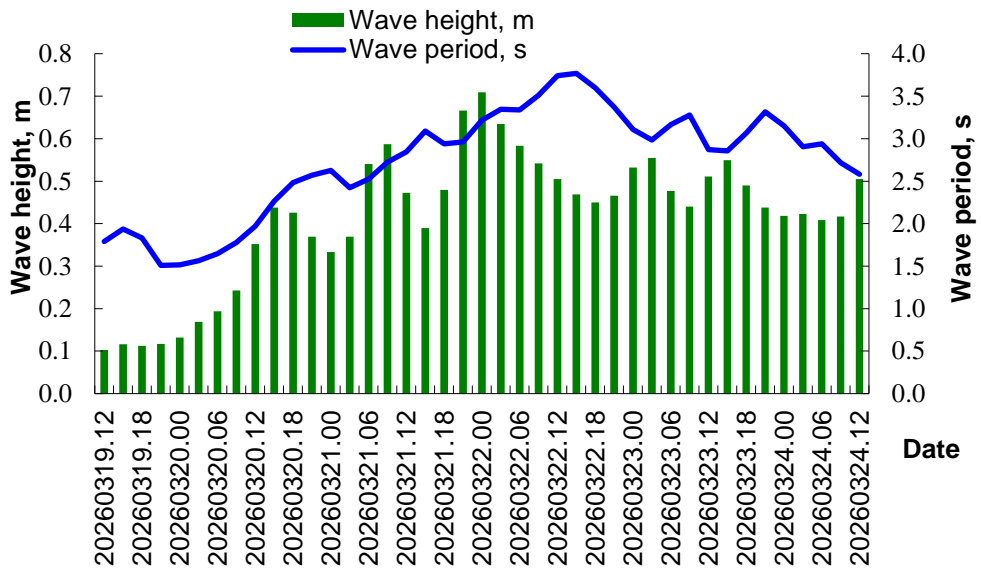


Date time	Fetisovo				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260319.12	0.20	SW	2.0	2	S
20260319.15	0.25	SW	2.2	2	SW
20260319.18	0.22	SW	2.3	2	W
20260319.21	0.19	SW	2.0	3	SW
20260320.00	0.19	SW	1.7	4	S
20260320.03	0.20	SW	1.7	4	E
20260320.06	0.23	W	1.7	4	SE
20260320.09	0.25	W	1.8	4	E
20260320.12	0.24	W	1.9	3	NW
20260320.15	0.26	SW	2.0	5	NW
20260320.18	0.35	S	2.1	7	N
20260320.21	0.45	S	2.3	6	W
20260321.00	0.47	S	2.5	5	SW
20260321.03	0.46	SW	2.7	5	S
20260321.06	0.43	SW	3.0	4	E
20260321.09	0.40	SW	3.2	4	NE
20260321.12	0.38	SW	3.3	4	W
20260321.15	0.38	SW	3.1	6	NW
20260321.18	0.47	SW	2.7	7	N
20260321.21	0.62	SW	2.8	8	SW
20260322.00	0.75	SW	3.2	8	S
20260322.03	0.68	SW	3.3	5	E
20260322.06	0.54	SW	3.4	3	SE
20260322.09	0.45	W	3.3	3	E
20260322.12	0.41	W	3.2	4	N
20260322.15	0.38	W	3.2	5	NW
20260322.18	0.39	SW	3.0	4	NE
20260322.21	0.40	SW	2.8	4	NE
20260323.00	0.39	SW	2.8	4	SW
20260323.03	0.39	SW	3.0	4	SW
20260323.06	0.41	SW	3.0	4	W
20260323.09	0.43	SW	3.0	4	W
20260323.12	0.47	SW	3.0	4	W
20260323.15	0.49	SW	3.2	3	W
20260323.18	0.46	SW	3.4	2	NE
20260323.21	0.42	SW	3.6	2	W
20260324.00	0.39	SW	3.4	4	NW
20260324.03	0.38	SW	3.1	4	W
20260324.06	0.36	SW	2.9	3	SW
20260324.09	0.39	SW	2.5	5	SW
20260324.12	0.53	SW	2.5	7	SW

Wind condition in the Saura

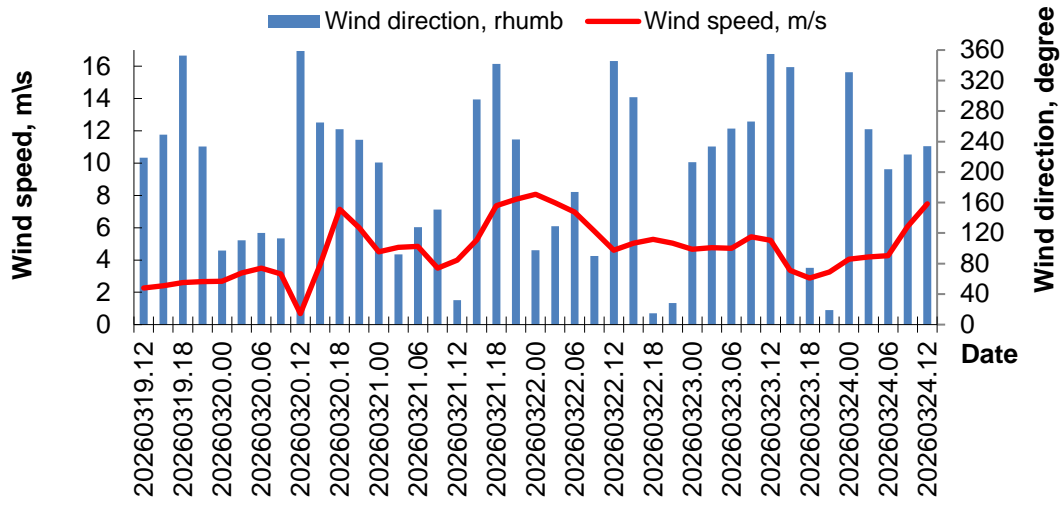


Wave condition in the Saura

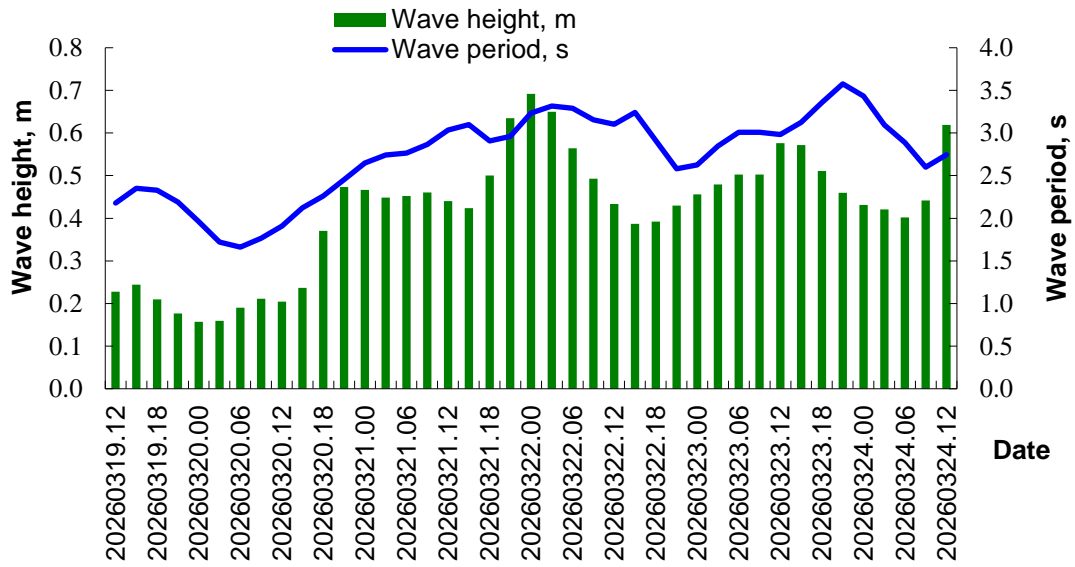


Date time	Saura				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260319.12	0.10	S	1.8	1	E
20260319.15	0.12	S	1.9	2	NE
20260319.18	0.11	S	1.8	3	N
20260319.21	0.12	S	1.5	3	NW
20260320.00	0.13	S	1.5	3	NW
20260320.03	0.17	SE	1.6	3	N
20260320.06	0.19	S	1.6	6	SE
20260320.09	0.24	W	1.8	6	E
20260320.12	0.35	W	2.0	7	E
20260320.15	0.44	W	2.3	6	S
20260320.18	0.43	W	2.5	5	W
20260320.21	0.37	W	2.6	4	SW
20260321.00	0.33	W	2.6	3	SW
20260321.03	0.37	W	2.4	7	E
20260321.06	0.54	W	2.5	10	E
20260321.09	0.59	W	2.7	6	E
20260321.12	0.47	W	2.8	2	NW
20260321.15	0.39	W	3.1	6	NW
20260321.18	0.48	S	2.9	9	NW
20260321.21	0.67	S	3.0	8	N
20260322.00	0.71	S	3.2	6	S
20260322.03	0.63	S	3.3	5	S
20260322.06	0.58	S	3.3	4	S
20260322.09	0.54	SW	3.5	3	E
20260322.12	0.51	SW	3.7	1	S
20260322.15	0.47	SW	3.8	1	NE
20260322.18	0.45	SW	3.6	2	NW
20260322.21	0.47	S	3.4	4	E
20260323.00	0.53	SW	3.1	8	E
20260323.03	0.55	SW	3.0	5	S
20260323.06	0.48	SW	3.2	2	N
20260323.09	0.44	SW	3.3	5	W
20260323.12	0.51	SW	2.9	8	W
20260323.15	0.55	SW	2.9	5	SW
20260323.18	0.49	SW	3.1	2	SE
20260323.21	0.44	SW	3.3	3	S
20260324.00	0.42	S	3.2	4	W
20260324.03	0.42	S	2.9	4	SW
20260324.06	0.41	SW	2.9	4	SE
20260324.09	0.42	SW	2.7	5	S
20260324.12	0.50	SW	2.6	7	SW

Wind condition in the Kuryik



Wave condition in the Kuryik



Date time	Kuryk				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260319.12	0.23	SW	2.2	2	SW
20260319.15	0.24	SW	2.4	2	W
20260319.18	0.21	SW	2.3	3	N
20260319.21	0.18	SW	2.2	3	SW
20260320.00	0.16	SW	2.0	3	E
20260320.03	0.16	SW	1.7	3	E
20260320.06	0.19	SW	1.7	3	SE
20260320.09	0.21	W	1.8	3	SE
20260320.12	0.20	W	1.9	1	N
20260320.15	0.24	W	2.1	4	W
20260320.18	0.37	SW	2.3	7	W
20260320.21	0.47	SW	2.5	6	SW
20260321.00	0.47	SW	2.6	5	SW
20260321.03	0.45	SW	2.7	5	E
20260321.06	0.45	SW	2.8	5	SE
20260321.09	0.46	W	2.9	3	SE
20260321.12	0.44	W	3.0	4	NE
20260321.15	0.42	W	3.1	5	NW
20260321.18	0.50	SW	2.9	7	N
20260321.21	0.63	S	3.0	8	SW
20260322.00	0.69	SW	3.2	8	E
20260322.03	0.65	SW	3.3	8	SE
20260322.06	0.56	SW	3.3	7	S
20260322.09	0.49	SW	3.2	6	E
20260322.12	0.43	SW	3.1	5	N
20260322.15	0.39	SW	3.2	5	NW
20260322.18	0.39	SW	2.9	5	N
20260322.21	0.43	S	2.6	5	NE
20260323.00	0.46	SW	2.6	5	SW
20260323.03	0.48	SW	2.8	5	SW
20260323.06	0.50	SW	3.0	5	W
20260323.09	0.50	SW	3.0	5	W
20260323.12	0.58	SW	3.0	5	N
20260323.15	0.57	SW	3.1	3	N
20260323.18	0.51	SW	3.4	3	E
20260323.21	0.46	SW	3.6	3	N
20260324.00	0.43	SW	3.4	4	NW
20260324.03	0.42	SW	3.1	4	W
20260324.06	0.40	SW	2.9	4	SW
20260324.09	0.44	SW	2.6	6	SW
20260324.12	0.62	SW	2.7	7	SW

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

Составила: Жағпарова Н.Н.

Проверила: Құрманғалиева А.Қ.

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