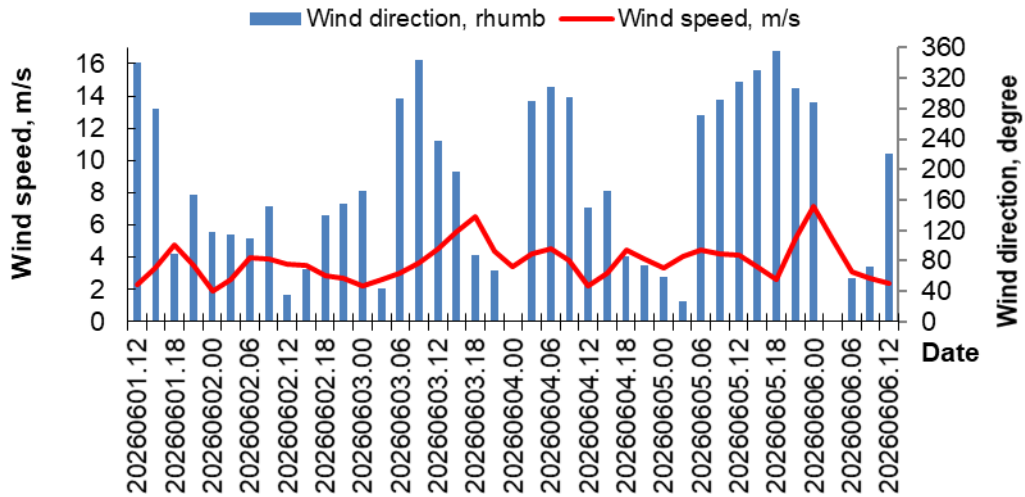




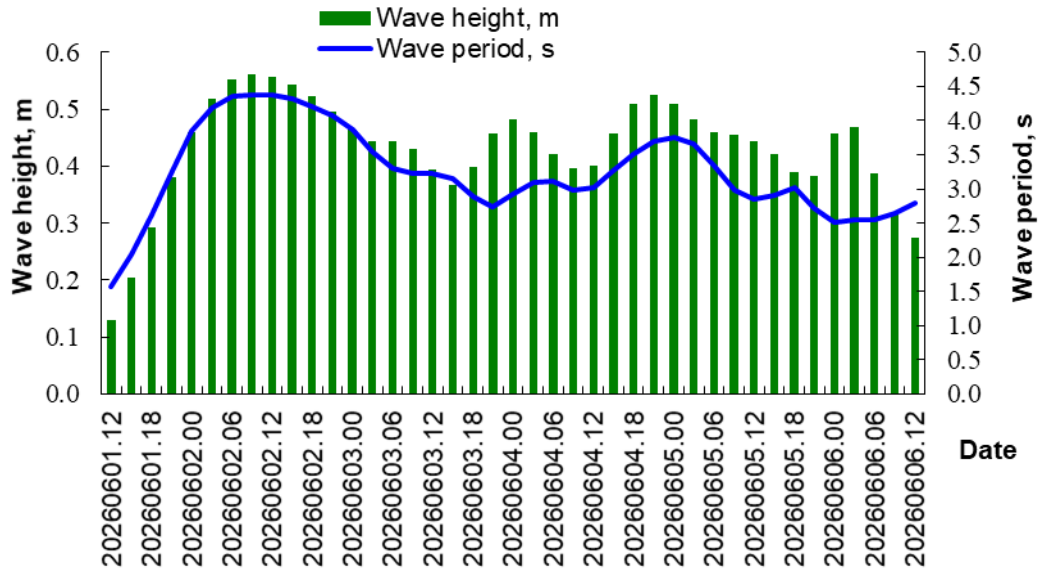
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period June 01 – 06, 2026 .**

Wind condition in the Kulaly

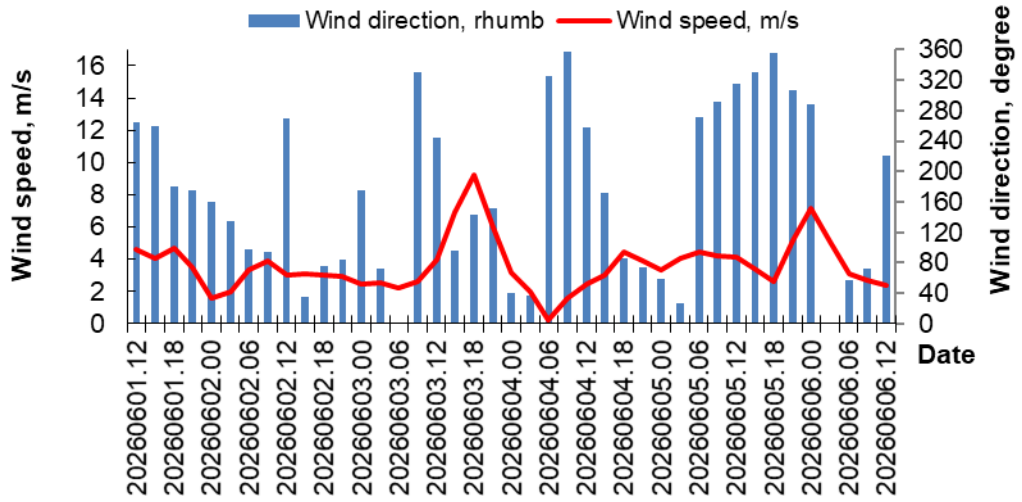


Wave condition in the Kulaly

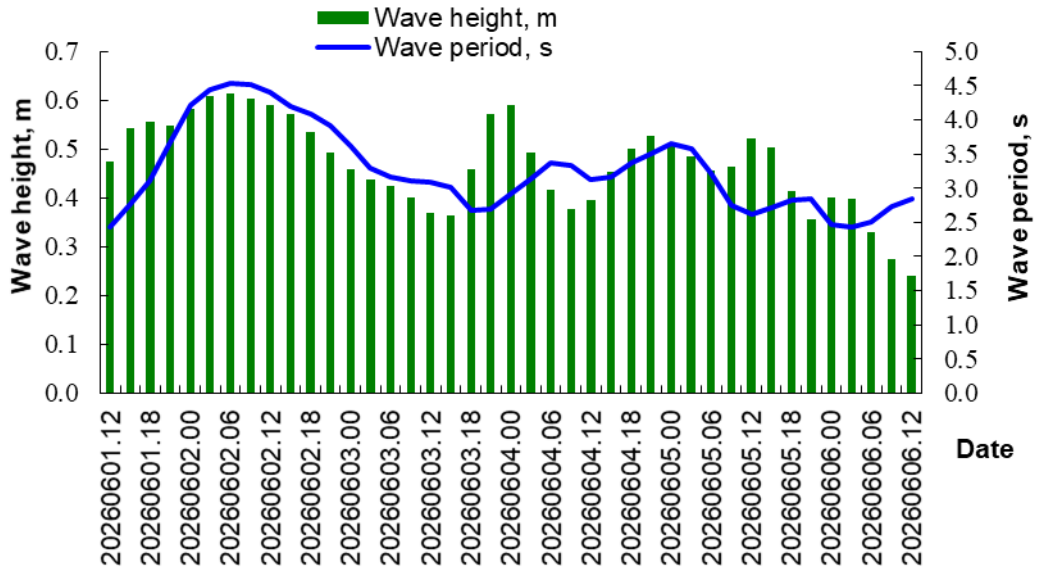


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260601.12	0.13	S	1.6	2	N
20260601.15	0.21	SE	2.0	3	W
20260601.18	0.29	SE	2.6	5	E
20260601.21	0.38	SE	3.3	4	S
20260602.00	0.46	SE	3.9	2	SE
20260602.03	0.52	SE	4.2	3	SE
20260602.06	0.55	SE	4.4	4	E
20260602.09	0.56	SE	4.4	4	SE
20260602.12	0.56	SE	4.4	4	NE
20260602.15	0.54	SE	4.3	3	E
20260602.18	0.52	SE	4.2	3	SE
20260602.21	0.49	SE	4.1	3	SE
20260603.00	0.46	SE	3.9	2	S
20260603.03	0.44	SE	3.5	3	NE
20260603.06	0.44	E	3.3	3	W
20260603.09	0.43	E	3.2	4	N
20260603.12	0.39	E	3.2	5	SW
20260603.15	0.37	SE	3.1	6	S
20260603.18	0.40	SE	2.9	6	E
20260603.21	0.46	W	2.7	4	NE
20260604.00	0.48	SW	2.9	3	N
20260604.03	0.46	SW	3.1	4	W
20260604.06	0.42	SW	3.1	5	NW
20260604.09	0.40	S	3.0	4	NW
20260604.12	0.40	S	3.0	2	SE
20260604.15	0.46	S	3.3	3	S
20260604.18	0.51	S	3.5	4	E
20260604.21	0.52	S	3.7	4	E
20260605.00	0.51	S	3.8	3	NE
20260605.03	0.48	S	3.7	4	NE
20260605.06	0.46	S	3.3	4	W
20260605.09	0.45	SE	3.0	4	W
20260605.12	0.44	SE	2.9	4	NW
20260605.15	0.42	SE	2.9	3	NW
20260605.18	0.39	SE	3.0	3	N
20260605.21	0.38	SE	2.7	5	NW
20260606.00	0.46	SE	2.5	7	W
20260606.03	0.47	E	2.6	5	N
20260606.06	0.39	E	2.5	3	NE
20260606.09	0.32	E	2.6	3	E
20260606.12	0.27	E	2.8	2	SW

Wind condition in the Fort-Shevchenko

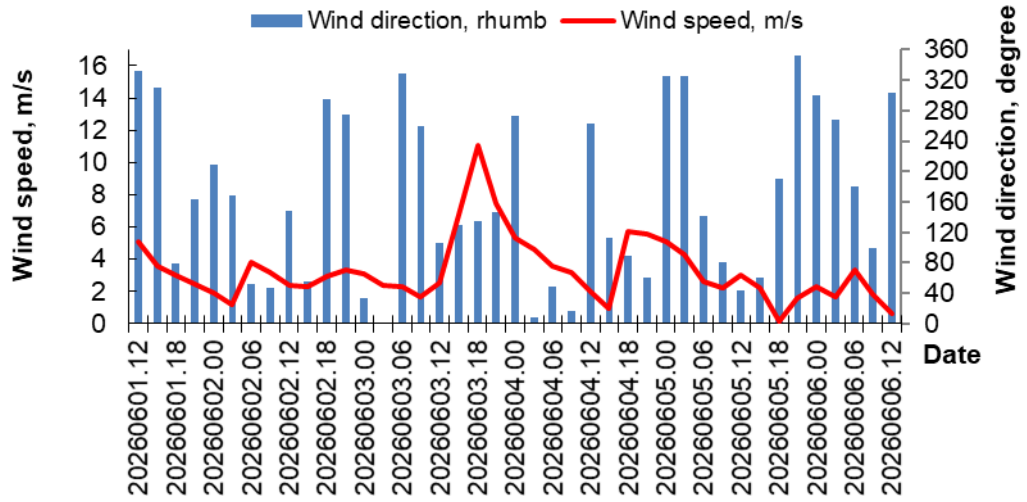


Wave condition in the Fort-Shevchenko

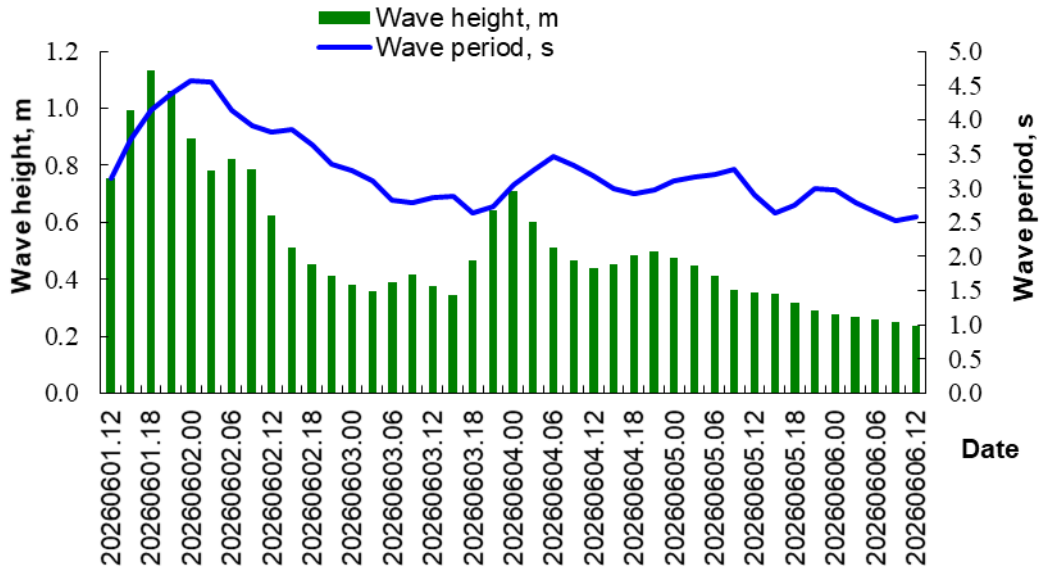


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260601.12	0.47	S	2.4	5	W
20260601.15	0.54	S	2.8	4	W
20260601.18	0.56	S	3.1	5	S
20260601.21	0.55	SE	3.7	3	S
20260602.00	0.58	SE	4.2	2	S
20260602.03	0.61	SE	4.4	2	SE
20260602.06	0.61	SE	4.5	3	E
20260602.09	0.60	SE	4.5	4	E
20260602.12	0.59	SE	4.4	3	W
20260602.15	0.57	SE	4.2	3	NE
20260602.18	0.53	SE	4.1	3	E
20260602.21	0.49	SE	3.9	3	E
20260603.00	0.46	SE	3.6	2	S
20260603.03	0.44	E	3.3	3	E
20260603.06	0.42	E	3.2	2	N
20260603.09	0.40	E	3.1	3	NW
20260603.12	0.37	SE	3.1	4	SW
20260603.15	0.36	SE	3.0	7	E
20260603.18	0.46	W	2.7	9	SE
20260603.21	0.57	NW	2.7	6	SE
20260604.00	0.59	W	2.9	3	NE
20260604.03	0.49	W	3.1	2	NE
20260604.06	0.42	SW	3.4	0	NW
20260604.09	0.38	SW	3.3	2	N
20260604.12	0.40	SW	3.1	2	W
20260604.15	0.45	S	3.2	3	S
20260604.18	0.50	S	3.4	4	E
20260604.21	0.53	S	3.5	4	E
20260605.00	0.51	SW	3.6	3	NE
20260605.03	0.48	S	3.6	4	NE
20260605.06	0.46	S	3.2	4	W
20260605.09	0.46	E	2.7	4	W
20260605.12	0.52	NE	2.6	4	NW
20260605.15	0.50	NE	2.7	3	NW
20260605.18	0.41	NE	2.8	3	N
20260605.21	0.36	E	2.8	5	NW
20260606.00	0.40	E	2.5	7	W
20260606.03	0.40	E	2.4	5	N
20260606.06	0.33	E	2.5	3	NE
20260606.09	0.27	E	2.7	3	E
20260606.12	0.24	E	2.8	2	SW

Wind condition in the Aktau

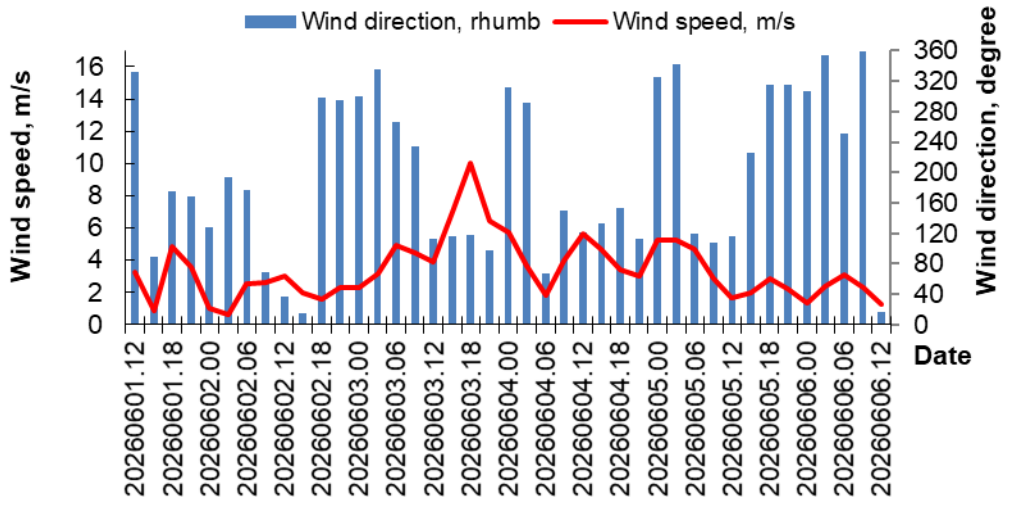


Wave condition in the Aktau

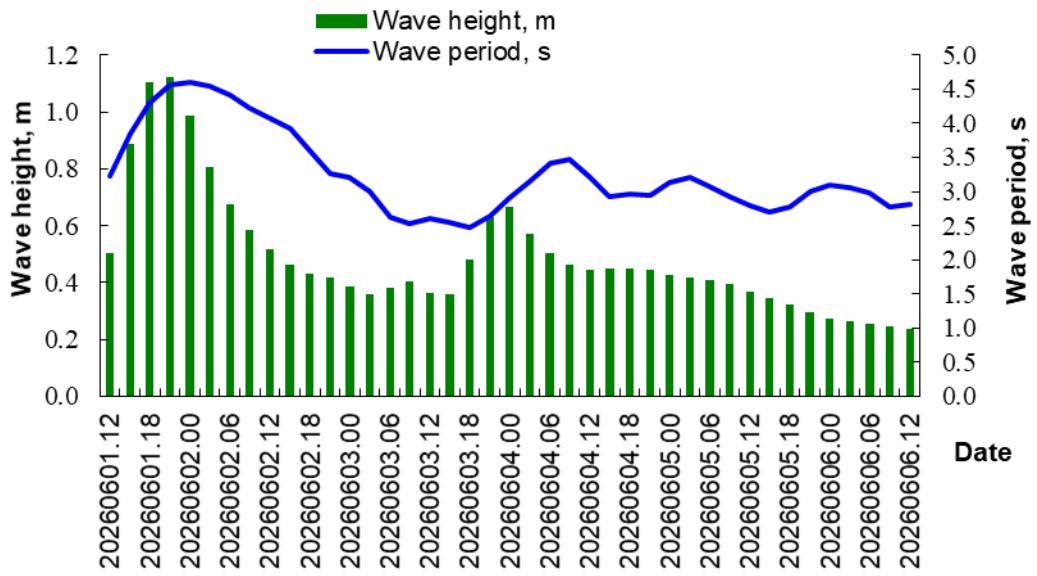


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20260601.12	0.76	SE	3.1	5	NW
20260601.15	0.99	SE	3.7	4	NW
20260601.18	1.13	SE	4.1	3	E
20260601.21	1.06	SE	4.4	2	S
20260602.00	0.89	SE	4.6	2	SW
20260602.03	0.78	SE	4.5	1	S
20260602.06	0.82	SE	4.1	4	NE
20260602.09	0.79	SE	3.9	3	NE
20260602.12	0.62	SE	3.8	2	SE
20260602.15	0.51	SE	3.9	2	NE
20260602.18	0.45	SE	3.6	3	NW
20260602.21	0.41	SE	3.3	3	W
20260603.00	0.38	SE	3.3	3	NE
20260603.03	0.36	SE	3.1	2	N
20260603.06	0.39	SE	2.8	2	NW
20260603.09	0.41	SE	2.8	2	W
20260603.12	0.37	SE	2.9	3	E
20260603.15	0.34	SE	2.9	7	SE
20260603.18	0.46	NW	2.6	11	SE
20260603.21	0.64	NW	2.7	7	SE
20260604.00	0.71	NW	3.0	5	W
20260604.03	0.60	NW	3.3	5	N
20260604.06	0.51	W	3.5	4	NE
20260604.09	0.47	W	3.3	3	N
20260604.12	0.44	W	3.2	2	W
20260604.15	0.45	SW	3.0	1	SE
20260604.18	0.49	W	2.9	6	E
20260604.21	0.50	W	3.0	6	NE
20260605.00	0.47	W	3.1	5	NW
20260605.03	0.45	SW	3.2	4	NW
20260605.06	0.41	SW	3.2	3	SE
20260605.09	0.36	SW	3.3	2	E
20260605.12	0.35	W	2.9	3	NE
20260605.15	0.35	N	2.6	2	NE
20260605.18	0.32	N	2.8	0	S
20260605.21	0.29	N	3.0	2	N
20260606.00	0.28	N	3.0	2	NW
20260606.03	0.27	N	2.8	2	W
20260606.06	0.26	N	2.6	3	S
20260606.09	0.25	N	2.5	2	E
20260606.12	0.24	N	2.6	1	NW

Wind condition in the Peschanyi

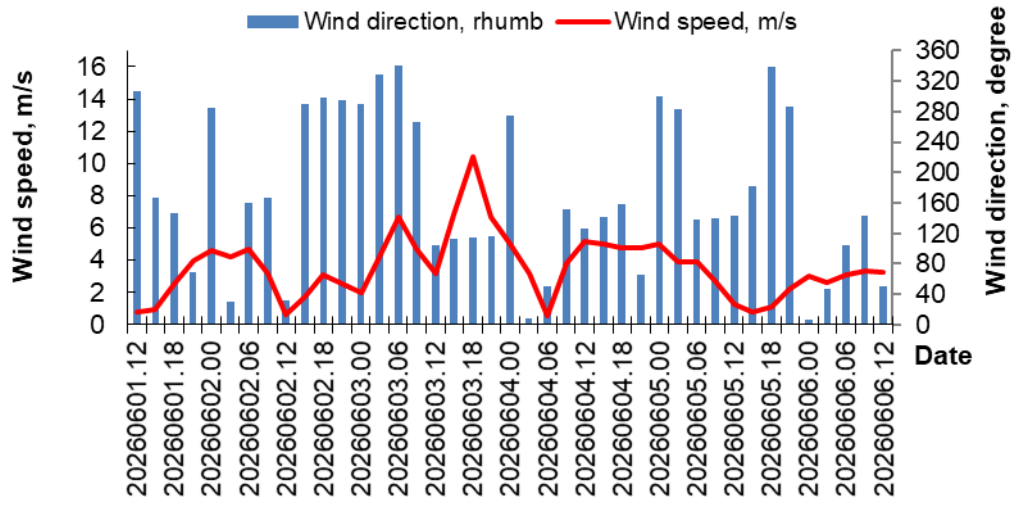


Wave condition in the Peschanyi

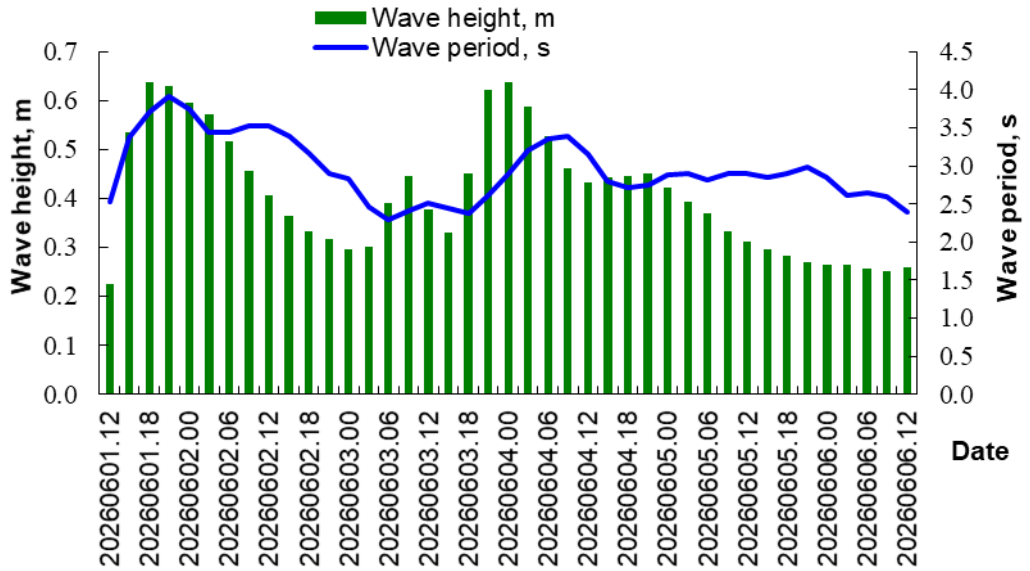


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260601.12	0.50	SE	3.2	3	NW
20260601.15	0.89	SE	3.9	1	E
20260601.18	1.11	SE	4.3	5	S
20260601.21	1.12	SE	4.6	4	S
20260602.00	0.99	SE	4.6	1	SE
20260602.03	0.81	SE	4.5	1	S
20260602.06	0.68	SE	4.4	3	S
20260602.09	0.59	SE	4.2	3	E
20260602.12	0.52	SE	4.1	3	NE
20260602.15	0.46	SE	3.9	2	N
20260602.18	0.43	SE	3.6	2	NW
20260602.21	0.42	SE	3.3	2	NW
20260603.00	0.38	SE	3.2	2	NW
20260603.03	0.36	SE	3.0	3	NW
20260603.06	0.38	SE	2.6	5	W
20260603.09	0.41	SE	2.5	4	SW
20260603.12	0.36	SE	2.6	4	SE
20260603.15	0.36	S	2.5	7	SE
20260603.18	0.48	W	2.5	10	SE
20260603.21	0.63	W	2.6	6	E
20260604.00	0.67	W	2.9	6	NW
20260604.03	0.57	W	3.1	4	W
20260604.06	0.50	W	3.4	2	NE
20260604.09	0.46	W	3.5	4	SE
20260604.12	0.45	NW	3.2	6	SE
20260604.15	0.45	NW	2.9	5	SE
20260604.18	0.45	NW	3.0	3	SE
20260604.21	0.45	NW	2.9	3	E
20260605.00	0.43	W	3.1	5	NW
20260605.03	0.42	W	3.2	5	N
20260605.06	0.41	SW	3.1	5	SE
20260605.09	0.39	W	2.9	3	E
20260605.12	0.37	W	2.8	2	SE
20260605.15	0.34	W	2.7	2	SW
20260605.18	0.32	W	2.8	3	NW
20260605.21	0.29	NW	3.0	2	NW
20260606.00	0.27	NW	3.1	1	NW
20260606.03	0.26	NW	3.1	2	N
20260606.06	0.25	N	3.0	3	W
20260606.09	0.25	N	2.8	2	N
20260606.12	0.24	N	2.8	1	N

Wind condition in the Fetisovo

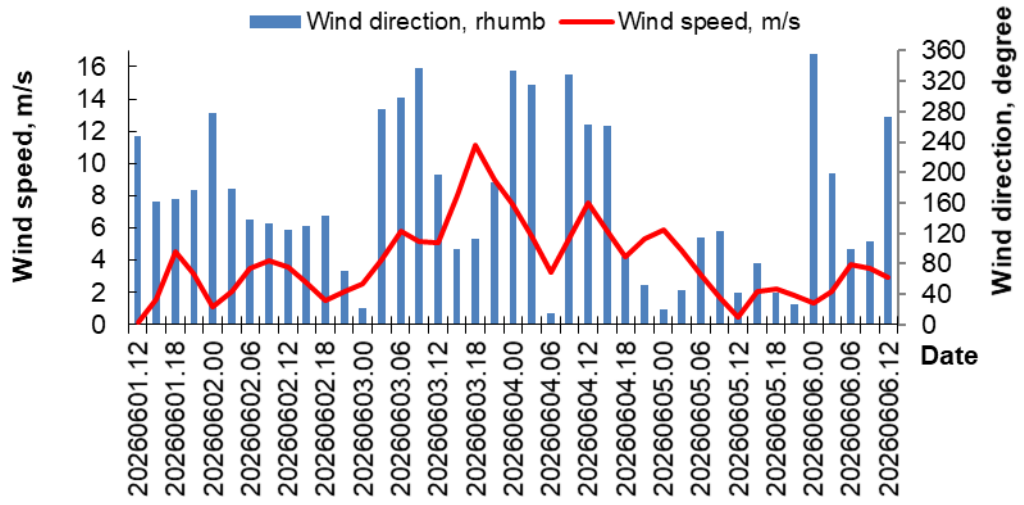


Wave condition in the Fetisovo

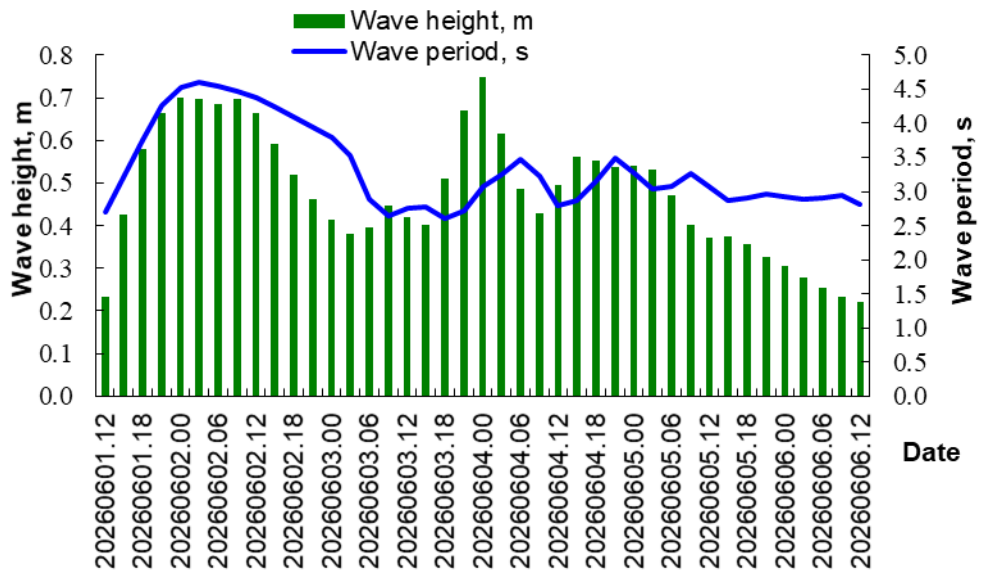


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260601.12	0.22	SE	2.5	1	NW
20260601.15	0.54	SE	3.4	1	S
20260601.18	0.64	SE	3.7	3	SE
20260601.21	0.63	SE	3.9	4	E
20260602.00	0.60	SE	3.7	5	W
20260602.03	0.57	SE	3.4	4	NE
20260602.06	0.52	SE	3.4	5	S
20260602.09	0.46	SE	3.5	3	S
20260602.12	0.41	SE	3.5	1	NE
20260602.15	0.36	SE	3.4	2	W
20260602.18	0.33	SE	3.2	3	NW
20260602.21	0.32	SE	2.9	3	NW
20260603.00	0.30	E	2.8	2	W
20260603.03	0.30	E	2.5	4	NW
20260603.06	0.39	SE	2.3	7	N
20260603.09	0.45	SE	2.4	5	W
20260603.12	0.38	SE	2.5	3	E
20260603.15	0.33	SE	2.4	7	SE
20260603.18	0.45	W	2.4	10	SE
20260603.21	0.62	NW	2.6	7	SE
20260604.00	0.64	NW	2.9	5	W
20260604.03	0.59	N	3.2	3	N
20260604.06	0.53	NE	3.3	1	NE
20260604.09	0.46	N	3.4	4	SE
20260604.12	0.43	NW	3.1	5	SE
20260604.15	0.44	NW	2.8	5	SE
20260604.18	0.44	NW	2.7	5	S
20260604.21	0.45	NW	2.7	5	NE
20260605.00	0.42	NW	2.9	5	NW
20260605.03	0.39	NW	2.9	4	W
20260605.06	0.37	NW	2.8	4	SE
20260605.09	0.33	NW	2.9	3	SE
20260605.12	0.31	NW	2.9	1	SE
20260605.15	0.30	NW	2.9	1	S
20260605.18	0.28	NW	2.9	1	N
20260605.21	0.27	NW	3.0	2	W
20260606.00	0.26	N	2.9	3	N
20260606.03	0.26	N	2.6	3	NE
20260606.06	0.26	N	2.6	3	E
20260606.09	0.25	N	2.6	3	SE
20260606.12	0.26	N	2.4	3	NE

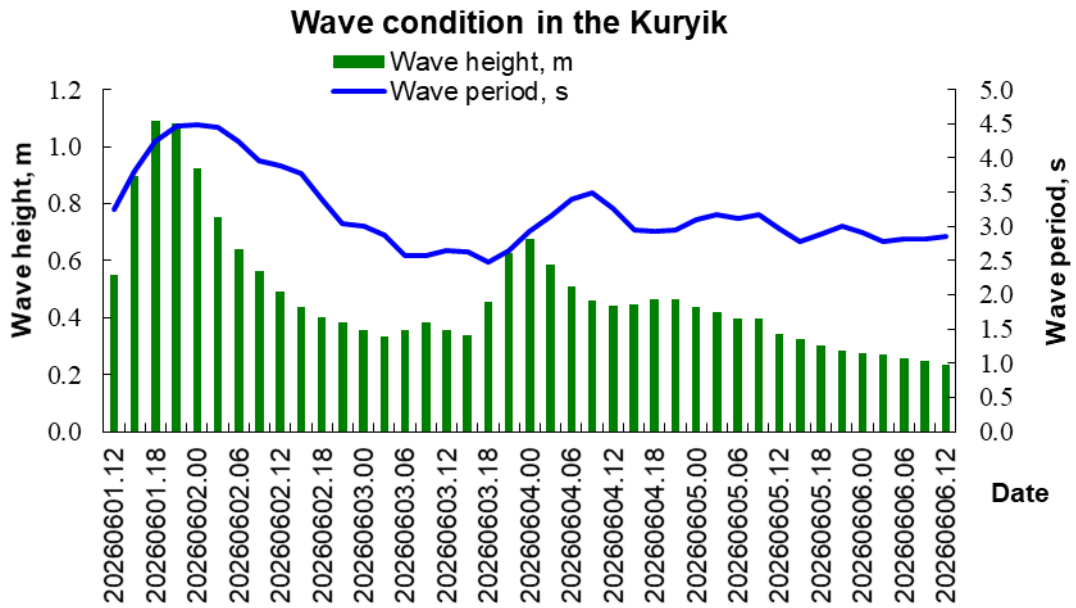
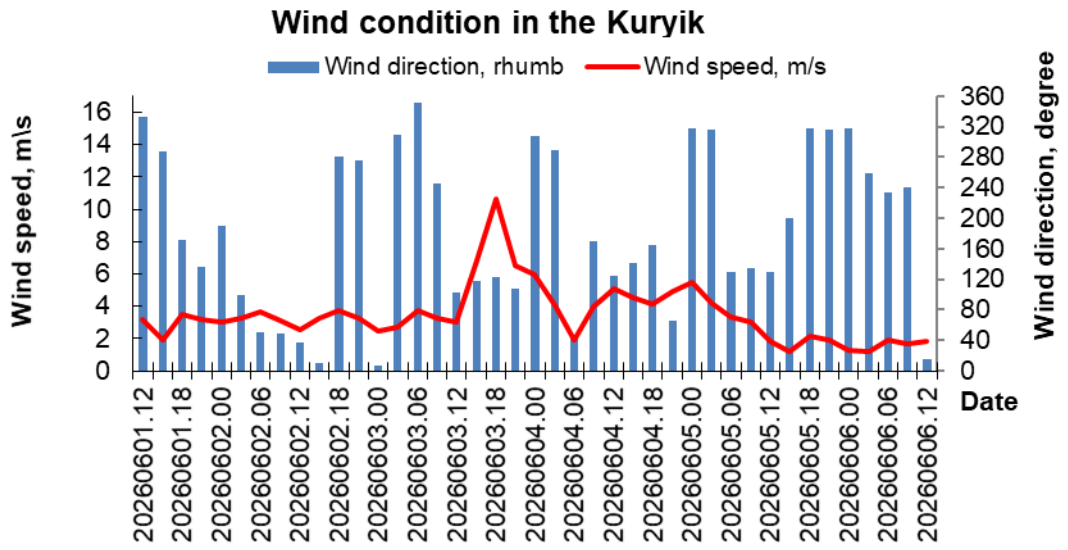
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260601.12	0.23	S	2.7	0	W
20260601.15	0.43	SE	3.2	2	S
20260601.18	0.58	SE	3.8	5	S
20260601.21	0.66	SE	4.3	3	S
20260602.00	0.70	SE	4.5	1	W
20260602.03	0.70	SE	4.6	2	S
20260602.06	0.69	SE	4.5	3	SE
20260602.09	0.70	SE	4.5	4	SE
20260602.12	0.66	SE	4.4	4	SE
20260602.15	0.59	SE	4.2	3	SE
20260602.18	0.52	SE	4.1	2	SE
20260602.21	0.46	SE	3.9	2	E
20260603.00	0.41	SE	3.8	3	N
20260603.03	0.38	SE	3.5	4	W
20260603.06	0.40	E	2.9	6	NW
20260603.09	0.45	SE	2.6	5	NW
20260603.12	0.42	SE	2.8	5	S
20260603.15	0.40	SE	2.8	8	E
20260603.18	0.51	W	2.6	11	SE
20260603.21	0.67	W	2.7	9	S
20260604.00	0.75	SW	3.1	7	NW
20260604.03	0.61	SW	3.2	5	NW
20260604.06	0.49	SW	3.5	3	N
20260604.09	0.43	SW	3.2	5	NW
20260604.12	0.49	S	2.8	8	W
20260604.15	0.56	S	2.9	6	W
20260604.18	0.55	S	3.2	4	E
20260604.21	0.54	SW	3.5	5	NE
20260605.00	0.54	S	3.3	6	N
20260605.03	0.53	S	3.0	5	NE
20260605.06	0.47	S	3.1	3	SE
20260605.09	0.40	SW	3.3	2	SE
20260605.12	0.37	SE	3.1	0	NE
20260605.15	0.38	NE	2.9	2	E
20260605.18	0.36	NE	2.9	2	NE
20260605.21	0.33	NE	3.0	2	NE
20260606.00	0.30	NE	2.9	1	N
20260606.03	0.28	NE	2.9	2	S
20260606.06	0.25	NE	2.9	4	E
20260606.09	0.23	NE	2.9	3	E
20260606.12	0.22	E	2.8	3	W



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20260601.12	0.55	SE	3.2	3	NW
20260601.15	0.90	SE	3.8	2	W
20260601.18	1.09	SE	4.2	3	S
20260601.21	1.08	SE	4.5	3	SE
20260602.00	0.92	SE	4.5	3	S
20260602.03	0.75	SE	4.5	3	E
20260602.06	0.64	SE	4.2	4	NE
20260602.09	0.56	SE	4.0	3	NE
20260602.12	0.49	SE	3.9	3	NE
20260602.15	0.44	SE	3.8	3	N
20260602.18	0.40	SE	3.4	4	W
20260602.21	0.38	SE	3.0	3	W
20260603.00	0.36	SE	3.0	2	N
20260603.03	0.34	SE	2.9	3	NW
20260603.06	0.36	SE	2.6	4	N
20260603.09	0.38	SE	2.6	3	SW
20260603.12	0.36	SE	2.6	3	E
20260603.15	0.34	SE	2.6	7	SE
20260603.18	0.46	W	2.5	11	SE
20260603.21	0.63	W	2.7	6	E
20260604.00	0.68	W	2.9	6	NW
20260604.03	0.59	NW	3.2	4	W
20260604.06	0.51	NW	3.4	2	NE
20260604.09	0.46	NW	3.5	4	S
20260604.12	0.44	NW	3.3	5	SE
20260604.15	0.45	NW	2.9	5	SE
20260604.18	0.46	NW	2.9	4	S
20260604.21	0.46	NW	2.9	5	NE
20260605.00	0.44	W	3.1	5	NW
20260605.03	0.42	W	3.2	4	NW
20260605.06	0.40	SW	3.1	3	SE
20260605.09	0.40	SW	3.2	3	SE
20260605.12	0.34	W	3.0	2	SE
20260605.15	0.33	W	2.8	1	S
20260605.18	0.30	NW	2.9	2	NW
20260605.21	0.28	NW	3.0	2	NW
20260606.00	0.28	N	2.9	1	NW
20260606.03	0.27	N	2.8	1	W
20260606.06	0.26	N	2.8	2	SW
20260606.09	0.25	N	2.8	2	SW
20260606.12	0.23	N	2.9	2	N

**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: Kurmangalieva A.K.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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