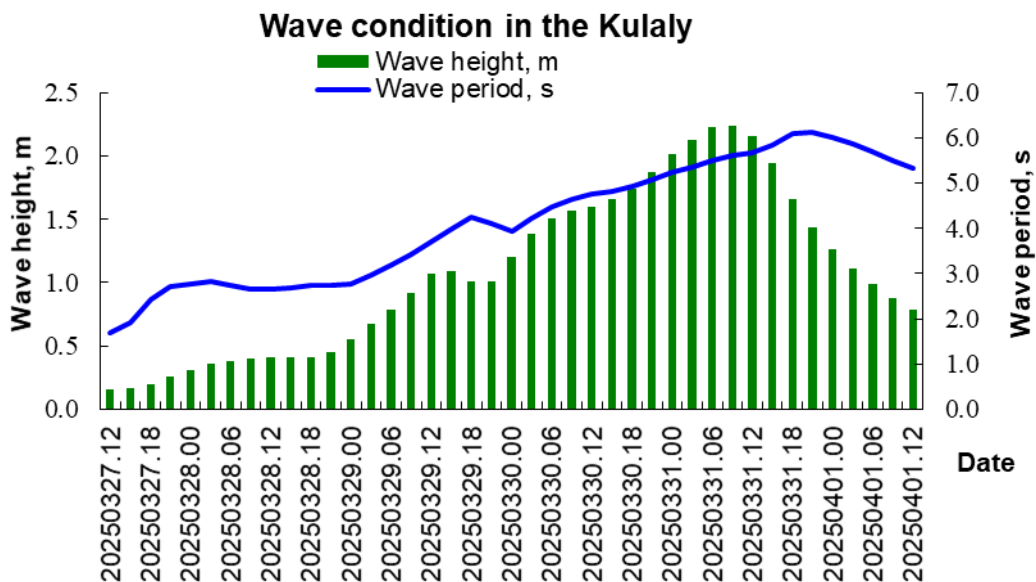
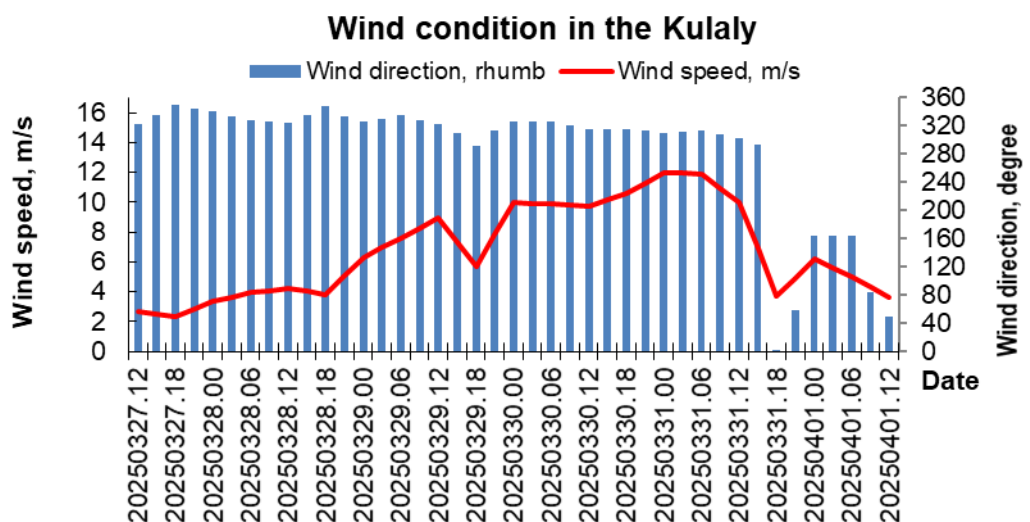




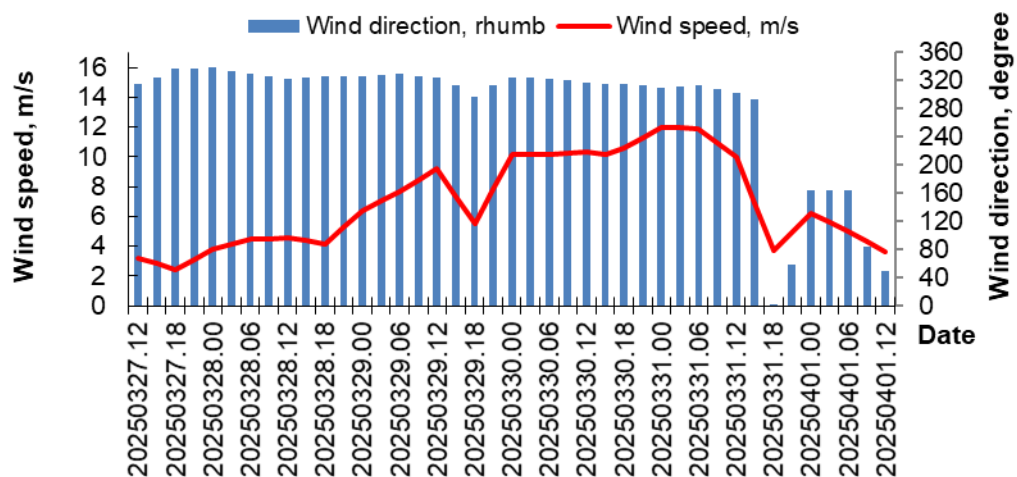
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 27 – April 01, 2025.**

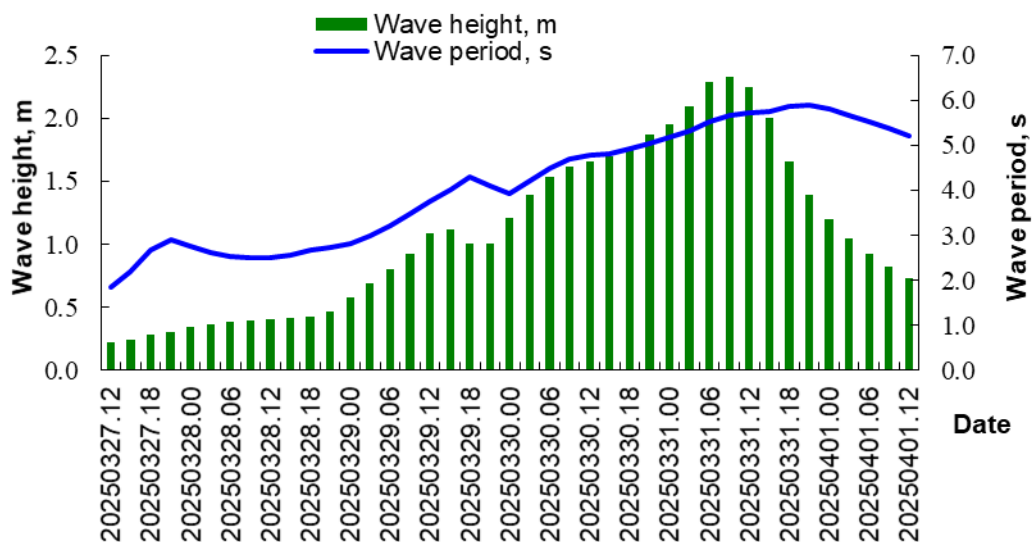


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250327.12	0.15	SE	1.7	3	NW
20250327.15	0.16	SE	1.9	2	NW
20250327.18	0.20	E	2.4	2	N
20250327.21	0.26	E	2.7	3	N
20250328.00	0.31	E	2.8	3	N
20250328.03	0.36	E	2.8	4	NW
20250328.06	0.38	E	2.8	4	NW
20250328.09	0.40	E	2.7	4	NW
20250328.12	0.41	E	2.6	4	NW
20250328.15	0.41	E	2.7	4	NW
20250328.18	0.41	E	2.7	4	N
20250328.21	0.45	E	2.7	5	NW
20250329.00	0.55	E	2.8	6	NW
20250329.03	0.67	SE	3.0	7	NW
20250329.06	0.78	SE	3.2	8	NW
20250329.09	0.92	SE	3.4	8	NW
20250329.12	1.07	SE	3.7	9	NW
20250329.15	1.09	SE	4.0	7	NW
20250329.18	1.01	E	4.2	6	W
20250329.21	1.01	E	4.1	8	NW
20250330.00	1.20	SE	3.9	10	NW
20250330.03	1.38	SE	4.2	10	NW
20250330.06	1.51	SE	4.5	10	NW
20250330.09	1.57	SE	4.6	10	NW
20250330.12	1.60	SE	4.8	10	NW
20250330.15	1.66	SE	4.8	10	NW
20250330.18	1.74	SE	4.9	11	NW
20250330.21	1.87	SE	5.1	11	NW
20250331.00	2.02	SE	5.2	12	NW
20250331.03	2.12	SE	5.4	12	NW
20250331.06	2.23	SE	5.5	12	NW
20250331.09	2.24	SE	5.6	11	NW
20250331.12	2.16	SE	5.7	10	NW
20250331.15	1.94	SE	5.8	7	NW
20250331.18	1.66	SE	6.1	4	N
20250331.21	1.44	SE	6.1	5	NE
20250401.00	1.26	SE	6.0	6	S
20250401.03	1.12	SE	5.9	6	S
20250401.06	0.99	SE	5.7	5	S
20250401.09	0.88	SE	5.5	4	E
20250401.12	0.79	SE	5.3	4	NE

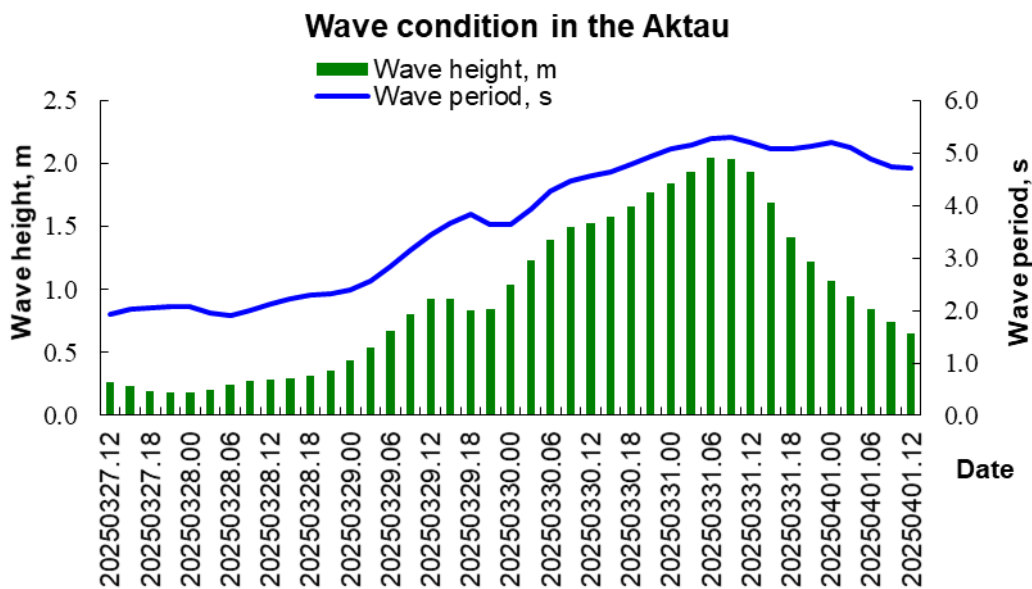
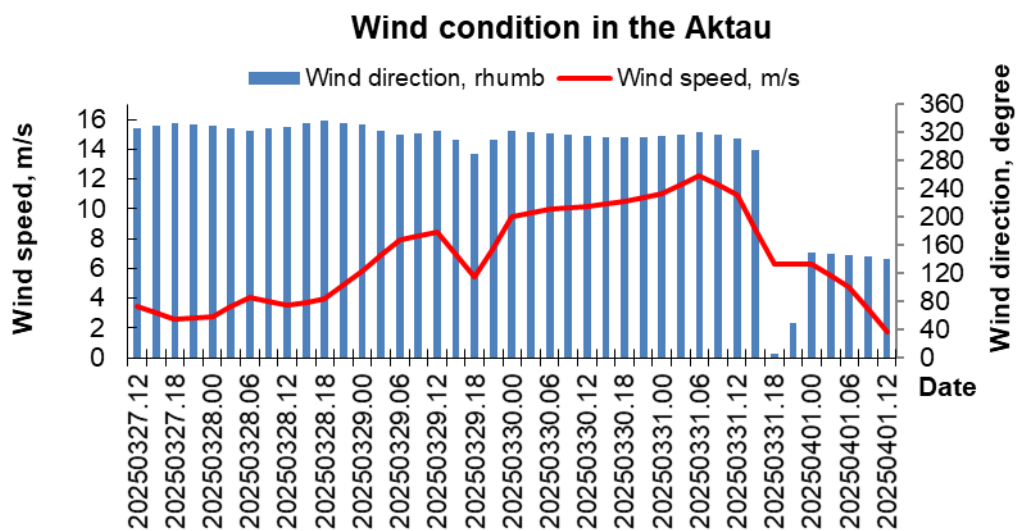
Wind condition in the Fort-Shevchenko



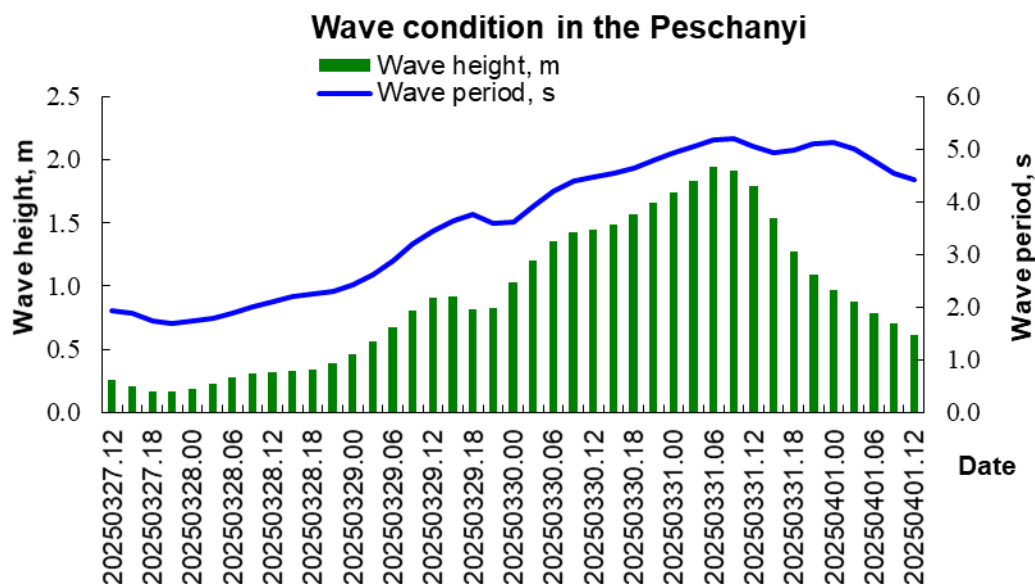
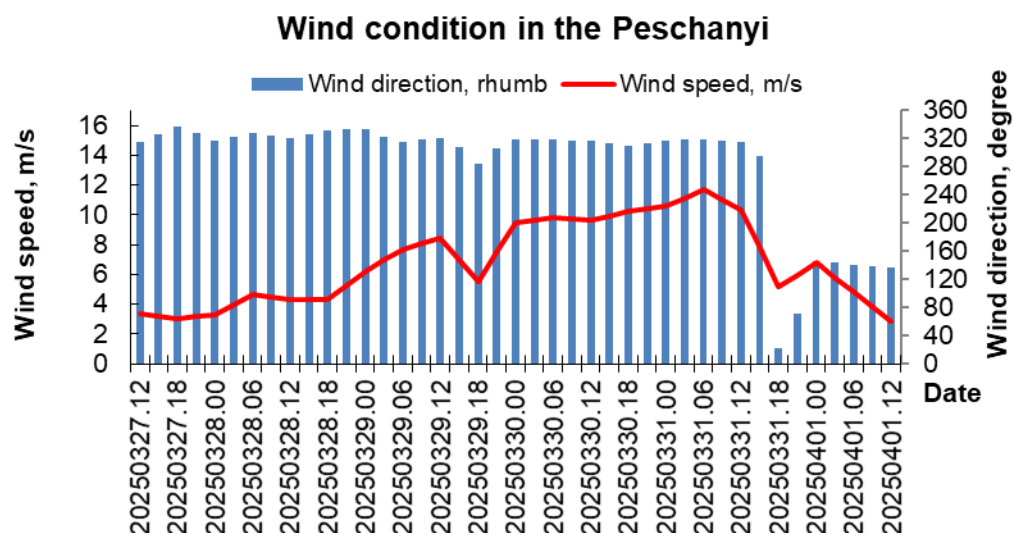
Wave condition in the Fort-Shevchenko



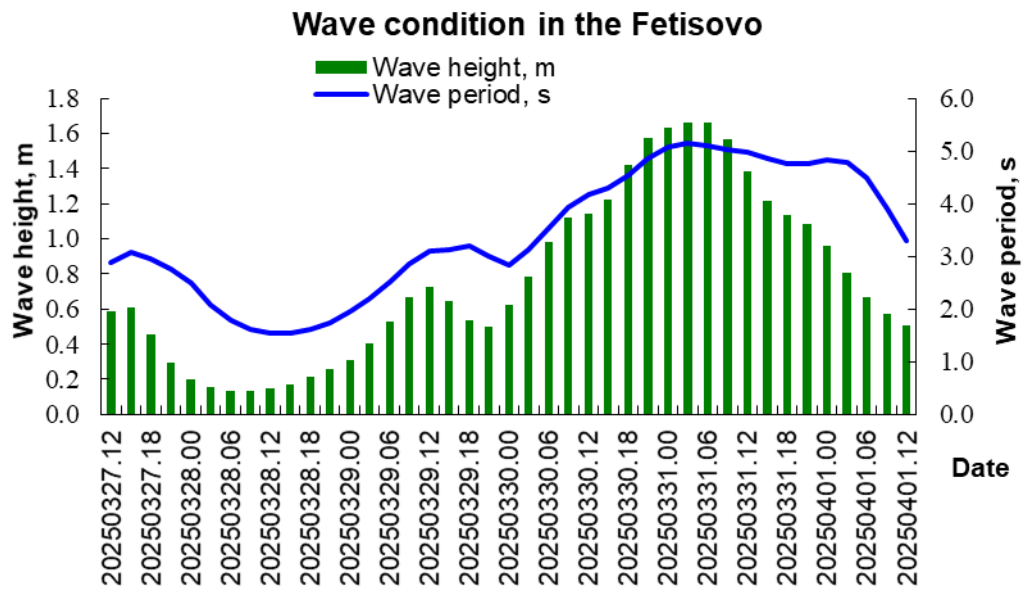
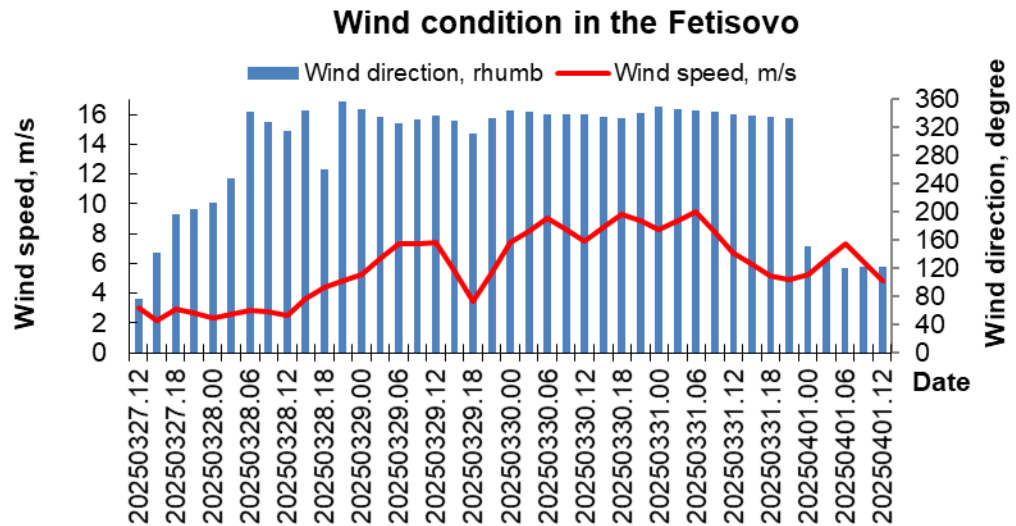
Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250327.12	0.22	SE	1.8	3	NW
20250327.15	0.25	SE	2.2	3	NW
20250327.18	0.28	E	2.7	2	N
20250327.21	0.31	E	2.9	3	N
20250328.00	0.34	E	2.7	4	N
20250328.03	0.37	E	2.6	4	NW
20250328.06	0.39	E	2.5	4	NW
20250328.09	0.40	E	2.5	5	NW
20250328.12	0.41	E	2.5	5	NW
20250328.15	0.42	E	2.6	4	NW
20250328.18	0.43	E	2.7	4	NW
20250328.21	0.47	E	2.7	5	NW
20250329.00	0.58	E	2.8	6	NW
20250329.03	0.69	SE	3.0	7	NW
20250329.06	0.80	SE	3.2	8	NW
20250329.09	0.93	SE	3.5	8	NW
20250329.12	1.09	SE	3.7	9	NW
20250329.15	1.12	SE	4.0	7	NW
20250329.18	1.01	E	4.3	6	NW
20250329.21	1.01	E	4.1	8	NW
20250330.00	1.21	SE	3.9	10	NW
20250330.03	1.40	SE	4.2	10	NW
20250330.06	1.53	SE	4.5	10	NW
20250330.09	1.62	SE	4.7	10	NW
20250330.12	1.66	SE	4.8	10	NW
20250330.15	1.70	SE	4.8	10	NW
20250330.18	1.77	SE	4.9	11	NW
20250330.21	1.87	SE	5.0	11	NW
20250331.00	1.96	SE	5.2	12	NW
20250331.03	2.10	SE	5.3	12	NW
20250331.06	2.29	SE	5.5	12	NW
20250331.09	2.33	SE	5.7	11	NW
20250331.12	2.25	SE	5.7	10	NW
20250331.15	2.00	SE	5.8	7	NW
20250331.18	1.66	SE	5.9	4	N
20250331.21	1.40	SE	5.9	5	NE
20250401.00	1.20	SE	5.8	6	S
20250401.03	1.05	SE	5.7	6	S
20250401.06	0.92	SE	5.5	5	S
20250401.09	0.82	SE	5.4	4	E
20250401.12	0.73	SE	5.2	4	NE



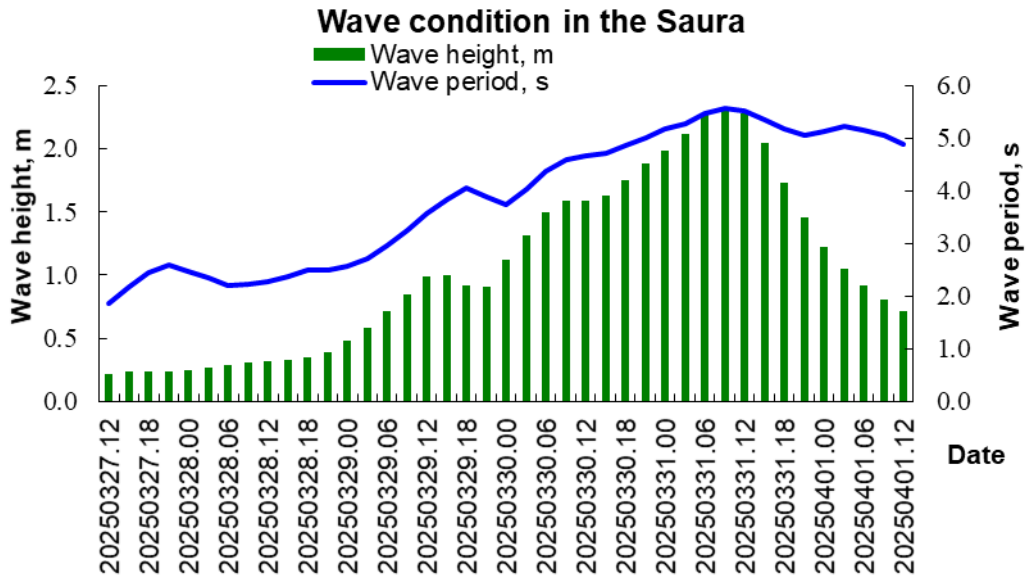
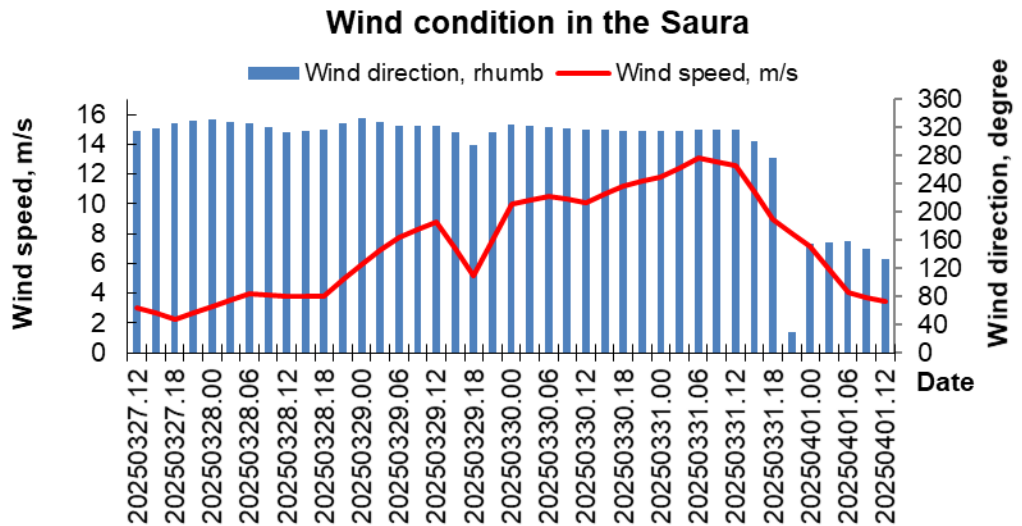
Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250327.12	0.26	SE	1.9	3	NW
20250327.15	0.23	SE	2.0	3	NW
20250327.18	0.20	SE	2.1	3	NW
20250327.21	0.18	SE	2.1	3	NW
20250328.00	0.18	E	2.1	3	NW
20250328.03	0.20	E	2.0	3	NW
20250328.06	0.24	E	1.9	4	NW
20250328.09	0.27	E	2.0	4	NW
20250328.12	0.28	E	2.1	4	NW
20250328.15	0.29	E	2.2	4	NW
20250328.18	0.31	E	2.3	4	NW
20250328.21	0.36	E	2.3	5	NW
20250329.00	0.44	SE	2.4	6	NW
20250329.03	0.54	SE	2.6	7	NW
20250329.06	0.67	SE	2.8	8	NW
20250329.09	0.81	SE	3.2	8	NW
20250329.12	0.92	SE	3.4	8	NW
20250329.15	0.93	SE	3.7	7	NW
20250329.18	0.83	SE	3.8	5	W
20250329.21	0.84	SE	3.6	7	NW
20250330.00	1.04	SE	3.6	9	NW
20250330.03	1.23	SE	3.9	10	NW
20250330.06	1.39	SE	4.3	10	NW
20250330.09	1.49	SE	4.5	10	NW
20250330.12	1.53	SE	4.6	10	NW
20250330.15	1.58	SE	4.6	10	NW
20250330.18	1.65	SE	4.8	10	NW
20250330.21	1.76	SE	4.9	11	NW
20250331.00	1.84	SE	5.1	11	NW
20250331.03	1.93	SE	5.2	12	NW
20250331.06	2.04	SE	5.3	12	NW
20250331.09	2.03	SE	5.3	12	NW
20250331.12	1.93	SE	5.2	11	NW
20250331.15	1.69	SE	5.1	9	NW
20250331.18	1.42	SE	5.1	6	N
20250331.21	1.22	SE	5.1	6	NE
20250401.00	1.07	SE	5.2	6	SE
20250401.03	0.95	SE	5.1	6	SE
20250401.06	0.85	SE	4.9	5	SE
20250401.09	0.74	SE	4.7	3	SE
20250401.12	0.65	SE	4.7	2	SE



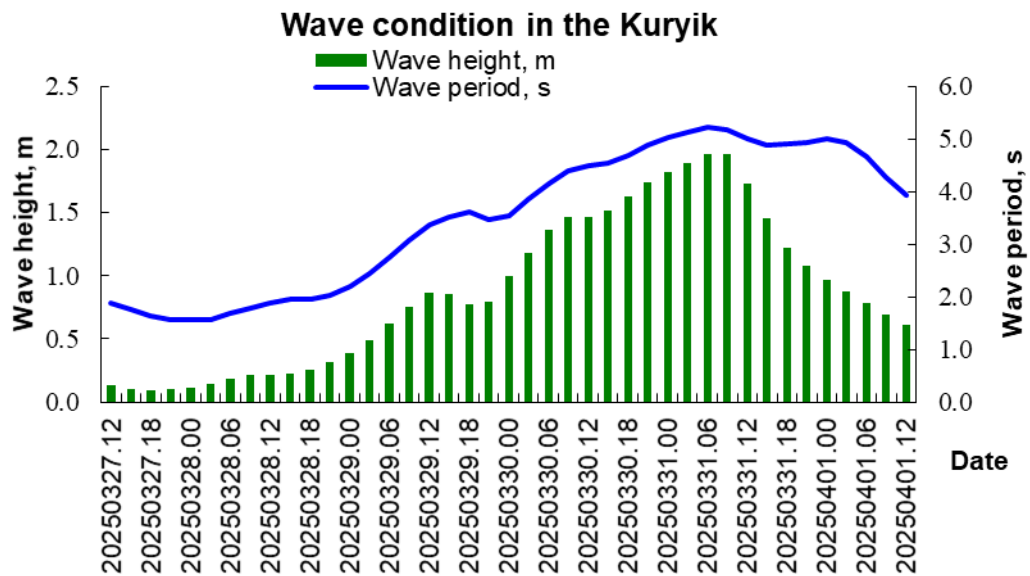
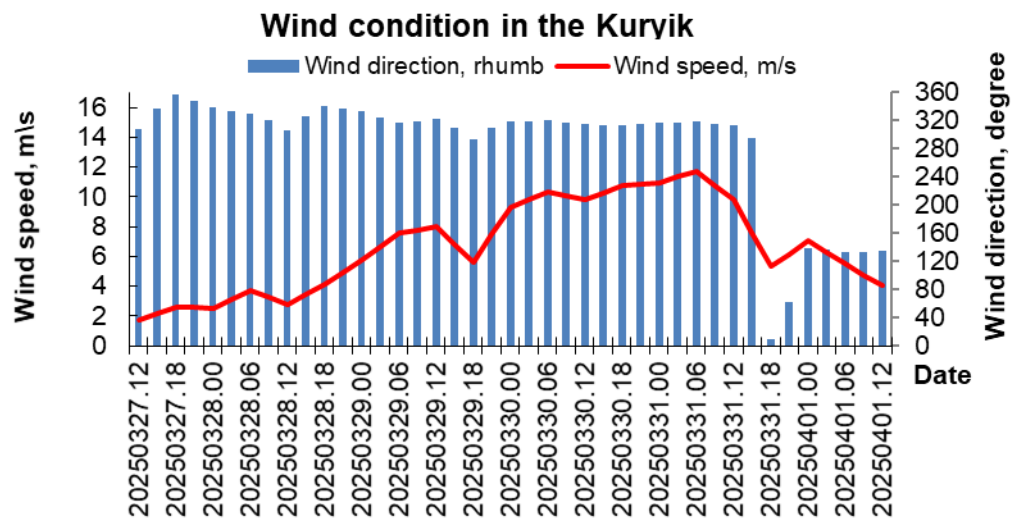
Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250327.12	0.26	SE	1.9	3	NW
20250327.15	0.21	SE	1.9	3	NW
20250327.18	0.17	SE	1.8	3	N
20250327.21	0.17	SE	1.7	3	NW
20250328.00	0.18	SE	1.7	3	NW
20250328.03	0.22	SE	1.8	4	NW
20250328.06	0.28	SE	1.9	5	NW
20250328.09	0.31	SE	2.0	4	NW
20250328.12	0.32	SE	2.1	4	NW
20250328.15	0.33	SE	2.2	4	NW
20250328.18	0.34	E	2.3	4	NW
20250328.21	0.39	SE	2.3	5	NW
20250329.00	0.46	SE	2.4	6	NW
20250329.03	0.56	SE	2.6	7	NW
20250329.06	0.68	SE	2.9	8	NW
20250329.09	0.81	SE	3.2	8	NW
20250329.12	0.91	SE	3.4	8	NW
20250329.15	0.92	SE	3.6	7	NW
20250329.18	0.82	SE	3.8	6	W
20250329.21	0.83	SE	3.6	7	NW
20250330.00	1.03	SE	3.6	9	NW
20250330.03	1.21	SE	3.9	10	NW
20250330.06	1.35	SE	4.2	10	NW
20250330.09	1.42	SE	4.4	10	NW
20250330.12	1.45	SE	4.5	10	NW
20250330.15	1.49	SE	4.5	10	NW
20250330.18	1.56	SE	4.6	10	NW
20250330.21	1.65	SE	4.8	10	NW
20250331.00	1.74	SE	4.9	11	NW
20250331.03	1.83	SE	5.1	11	NW
20250331.06	1.94	SE	5.2	12	NW
20250331.09	1.91	SE	5.2	11	NW
20250331.12	1.79	SE	5.0	10	NW
20250331.15	1.54	SE	4.9	8	NW
20250331.18	1.28	SE	5.0	5	N
20250331.21	1.09	SE	5.1	6	E
20250401.00	0.97	SE	5.1	7	SE
20250401.03	0.88	SE	5.0	6	SE
20250401.06	0.79	SE	4.8	5	SE
20250401.09	0.70	SE	4.5	4	SE
20250401.12	0.61	SE	4.4	3	SE



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250327.12	0.58	N	2.9	3	E
20250327.15	0.61	N	3.1	2	SE
20250327.18	0.45	N	3.0	3	S
20250327.21	0.29	N	2.8	3	SW
20250328.00	0.20	N	2.5	2	SW
20250328.03	0.15	NW	2.1	3	W
20250328.06	0.13	W	1.8	3	N
20250328.09	0.13	SW	1.6	3	NW
20250328.12	0.15	S	1.6	3	NW
20250328.15	0.17	S	1.5	4	N
20250328.18	0.21	S	1.6	4	W
20250328.21	0.25	S	1.7	5	N
20250329.00	0.31	S	1.9	5	N
20250329.03	0.40	S	2.2	6	NW
20250329.06	0.53	SE	2.5	7	NW
20250329.09	0.66	SE	2.9	7	NW
20250329.12	0.73	SE	3.1	7	NW
20250329.15	0.65	SE	3.1	5	NW
20250329.18	0.54	SE	3.2	3	NW
20250329.21	0.50	SE	3.0	5	NW
20250330.00	0.62	SE	2.8	7	N
20250330.03	0.79	SE	3.1	8	N
20250330.06	0.98	SE	3.5	9	N
20250330.09	1.12	SE	3.9	8	N
20250330.12	1.15	SE	4.2	8	N
20250330.15	1.22	SE	4.3	8	NW
20250330.18	1.42	SE	4.6	9	NW
20250330.21	1.57	SE	4.9	9	N
20250331.00	1.64	SE	5.1	8	N
20250331.03	1.66	SE	5.1	9	N
20250331.06	1.66	SE	5.1	9	N
20250331.09	1.56	SE	5.0	8	N
20250331.12	1.38	SE	5.0	7	N
20250331.15	1.21	SE	4.9	6	NW
20250331.18	1.14	SE	4.8	5	NW
20250331.21	1.09	SE	4.8	5	NW
20250401.00	0.96	SE	4.8	5	SE
20250401.03	0.80	SE	4.8	6	SE
20250401.06	0.67	SE	4.5	7	SE
20250401.09	0.57	SE	3.9	6	SE
20250401.12	0.51	SE	3.3	5	SE



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250327.12	0.22	SE	1.9	3	NW
20250327.15	0.24	SE	2.2	3	NW
20250327.18	0.24	SE	2.4	2	NW
20250327.21	0.24	E	2.6	3	NW
20250328.00	0.25	E	2.5	3	NW
20250328.03	0.27	E	2.3	4	NW
20250328.06	0.29	E	2.2	4	NW
20250328.09	0.31	E	2.2	4	NW
20250328.12	0.32	E	2.3	4	NW
20250328.15	0.33	E	2.4	4	NW
20250328.18	0.35	E	2.5	4	NW
20250328.21	0.39	E	2.5	5	NW
20250329.00	0.48	E	2.6	6	NW
20250329.03	0.59	SE	2.7	7	NW
20250329.06	0.71	SE	3.0	8	NW
20250329.09	0.84	SE	3.2	8	NW
20250329.12	0.99	SE	3.6	9	NW
20250329.15	1.00	SE	3.8	7	NW
20250329.18	0.92	E	4.1	5	NW
20250329.21	0.91	E	3.9	8	NW
20250330.00	1.12	SE	3.7	10	NW
20250330.03	1.31	SE	4.0	10	NW
20250330.06	1.49	SE	4.4	11	NW
20250330.09	1.58	SE	4.6	10	NW
20250330.12	1.59	SE	4.7	10	NW
20250330.15	1.63	SE	4.7	11	NW
20250330.18	1.75	SE	4.9	11	NW
20250330.21	1.88	SE	5.0	12	NW
20250331.00	1.98	SE	5.2	12	NW
20250331.03	2.11	SE	5.3	12	NW
20250331.06	2.27	SE	5.5	13	NW
20250331.09	2.33	SE	5.6	13	NW
20250331.12	2.27	SE	5.5	13	NW
20250331.15	2.04	SE	5.3	11	NW
20250331.18	1.73	SE	5.2	9	W
20250331.21	1.46	SE	5.1	8	NE
20250401.00	1.22	SE	5.1	7	SE
20250401.03	1.05	SE	5.2	6	SE
20250401.06	0.92	SE	5.1	4	S
20250401.09	0.81	SE	5.0	4	SE
20250401.12	0.71	SE	4.9	3	SE



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250327.12	0.13	SE	1.9	2	NW
20250327.15	0.11	SE	1.8	2	N
20250327.18	0.09	SE	1.6	3	N
20250327.21	0.10	SE	1.6	3	N
20250328.00	0.12	SE	1.6	3	N
20250328.03	0.15	SE	1.6	3	NW
20250328.06	0.19	SE	1.7	4	NW
20250328.09	0.21	SE	1.8	3	NW
20250328.12	0.21	SE	1.9	3	NW
20250328.15	0.23	E	2.0	3	NW
20250328.18	0.26	SE	2.0	4	N
20250328.21	0.31	SE	2.0	5	NW
20250329.00	0.39	SE	2.2	6	NW
20250329.03	0.49	SE	2.4	7	NW
20250329.06	0.62	SE	2.8	8	NW
20250329.09	0.75	SE	3.1	8	NW
20250329.12	0.86	SE	3.4	8	NW
20250329.15	0.86	SE	3.5	7	NW
20250329.18	0.77	SE	3.6	6	NW
20250329.21	0.80	SE	3.5	7	NW
20250330.00	1.00	SE	3.5	9	NW
20250330.03	1.18	SE	3.8	10	NW
20250330.06	1.36	SE	4.2	10	NW
20250330.09	1.46	SE	4.4	10	NW
20250330.12	1.47	SE	4.5	10	NW
20250330.15	1.51	SE	4.5	10	NW
20250330.18	1.63	SE	4.7	11	NW
20250330.21	1.74	SE	4.9	11	NW
20250331.00	1.82	SE	5.0	11	NW
20250331.03	1.89	SE	5.1	11	NW
20250331.06	1.97	SE	5.2	12	NW
20250331.09	1.97	SE	5.2	11	NW
20250331.12	1.72	SE	5.0	10	NW
20250331.15	1.46	SE	4.9	8	NW
20250331.18	1.22	SE	4.9	5	N
20250331.21	1.08	SE	4.9	6	NE
20250401.00	0.97	SE	5.0	7	SE
20250401.03	0.88	SE	4.9	6	SE
20250401.06	0.78	SE	4.7	5	SE
20250401.09	0.69	SE	4.3	5	SE
20250401.12	0.61	SE	3.9	4	SE

**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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