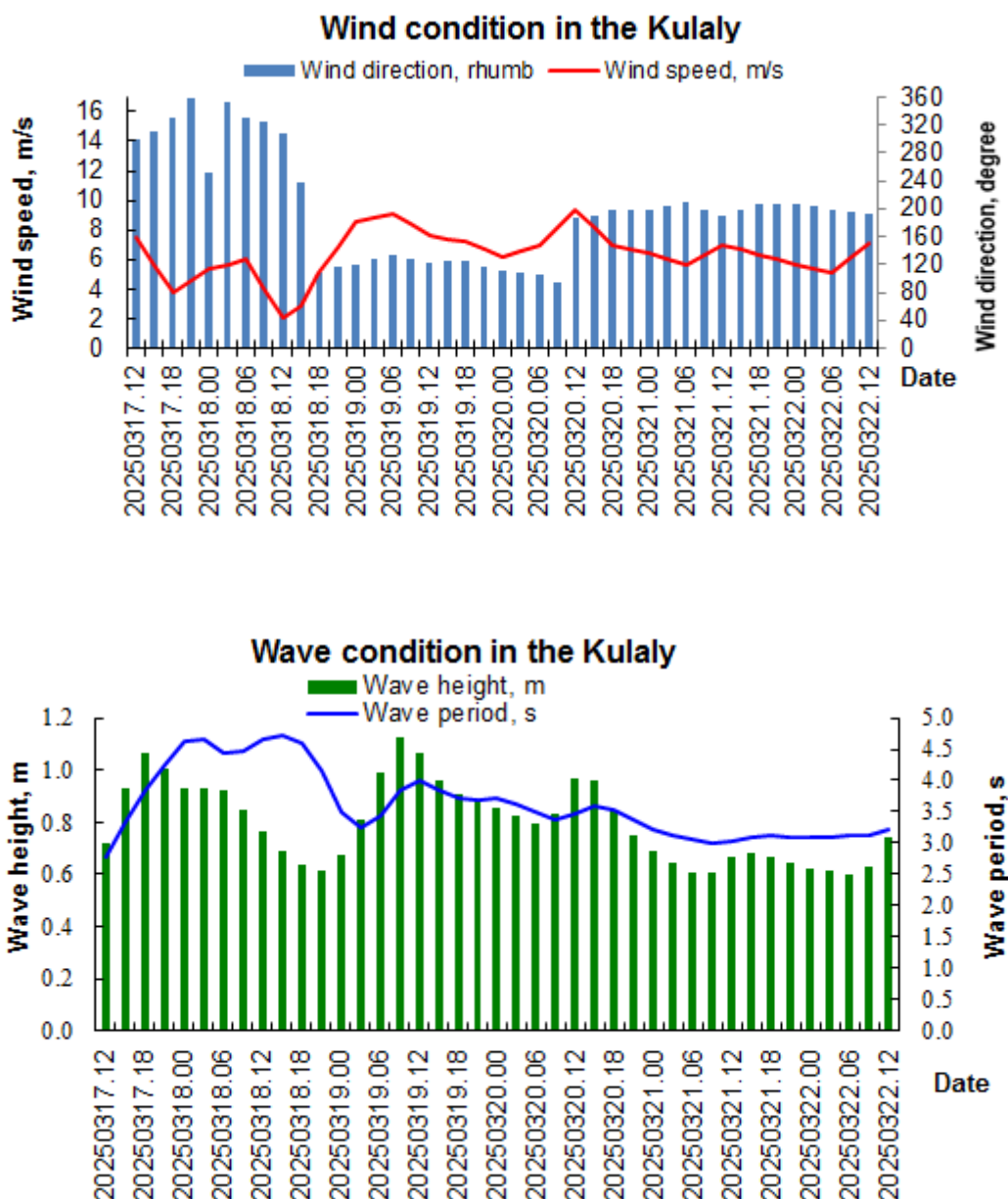




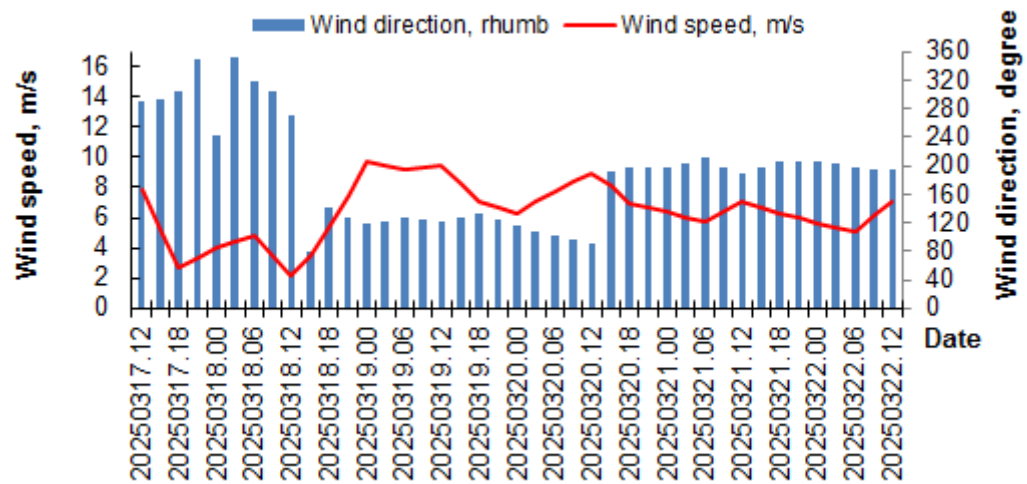
MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»

Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
for the period March 17-22, 2025.

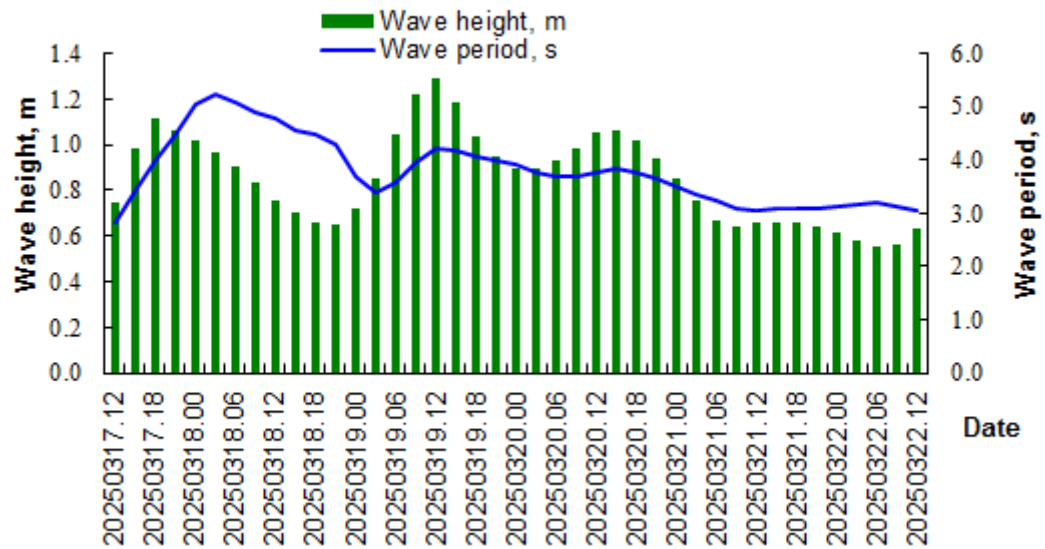


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250317.12	0.72	SE	2.8	8	NW
20250317.15	0.93	SE	3.3	6	NW
20250317.18	1.06	SE	3.9	4	NW
20250317.21	1.00	SE	4.3	5	N
20250318.00	0.93	SE	4.6	5	W
20250318.03	0.93	SE	4.7	6	N
20250318.06	0.92	SE	4.4	6	NW
20250318.09	0.85	SE	4.5	4	NW
20250318.12	0.76	SE	4.7	2	NW
20250318.15	0.69	SE	4.7	3	SW
20250318.18	0.63	SE	4.6	5	E
20250318.21	0.61	SE	4.2	7	SE
20250319.00	0.67	SE	3.5	9	SE
20250319.03	0.81	N	3.2	9	SE
20250319.06	0.99	NW	3.4	9	SE
20250319.09	1.13	NW	3.8	8	SE
20250319.12	1.07	NW	4.0	8	SE
20250319.15	0.96	NW	3.8	7	SE
20250319.18	0.91	NW	3.7	7	SE
20250319.21	0.88	NW	3.7	7	SE
20250320.00	0.85	NW	3.7	6	E
20250320.03	0.82	NW	3.6	7	E
20250320.06	0.79	NW	3.5	7	E
20250320.09	0.83	W	3.4	8	E
20250320.12	0.96	W	3.5	9	S
20250320.15	0.96	W	3.6	8	S
20250320.18	0.84	W	3.5	7	S
20250320.21	0.75	W	3.4	7	S
20250321.00	0.69	W	3.2	6	S
20250321.03	0.64	W	3.1	6	SW
20250321.06	0.60	W	3.1	6	SW
20250321.09	0.61	W	3.0	6	S
20250321.12	0.67	W	3.0	7	S
20250321.15	0.68	W	3.1	7	S
20250321.18	0.66	W	3.1	6	SW
20250321.21	0.64	W	3.1	6	SW
20250322.00	0.62	SW	3.1	6	SW
20250322.03	0.61	SW	3.1	5	SW
20250322.06	0.60	SW	3.1	5	S
20250322.09	0.63	SW	3.1	6	S
20250322.12	0.74	W	3.2	7	S

Wind condition in the Fort-Shevchenko

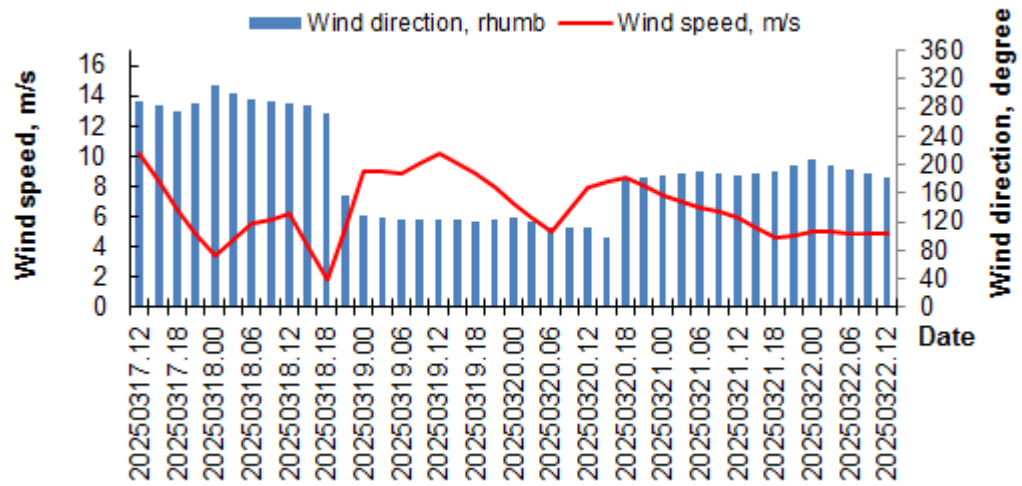


Wave condition in the Fort-Shevchenko

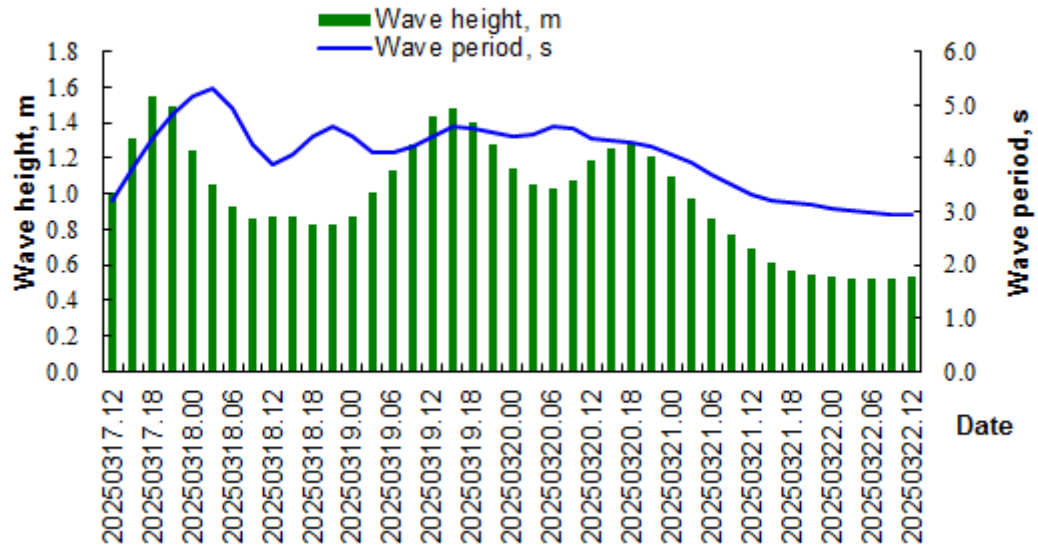


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250317.12	0.74	E	2.8	8	W
20250317.15	0.98	SE	3.4	5	NW
20250317.18	1.12	SE	4.0	3	NW
20250317.21	1.06	SE	4.5	3	N
20250318.00	1.01	SE	5.0	4	SW
20250318.03	0.97	SE	5.2	4	N
20250318.06	0.90	SE	5.1	5	NW
20250318.09	0.83	SE	4.9	4	NW
20250318.12	0.76	SE	4.8	2	W
20250318.15	0.70	SE	4.6	3	E
20250318.18	0.66	SE	4.5	5	SE
20250318.21	0.65	E	4.3	8	SE
20250319.00	0.72	E	3.7	10	SE
20250319.03	0.86	N	3.4	9	SE
20250319.06	1.04	NW	3.6	9	SE
20250319.09	1.22	NW	4.0	9	SE
20250319.12	1.29	NW	4.2	9	SE
20250319.15	1.19	NW	4.2	8	SE
20250319.18	1.04	NW	4.1	7	SE
20250319.21	0.95	NW	4.0	7	SE
20250320.00	0.90	NW	3.9	6	SE
20250320.03	0.90	NW	3.8	7	E
20250320.06	0.93	NW	3.7	8	E
20250320.09	0.98	NW	3.7	8	E
20250320.12	1.05	W	3.8	9	E
20250320.15	1.07	W	3.8	8	S
20250320.18	1.02	W	3.8	7	S
20250320.21	0.94	W	3.6	7	S
20250321.00	0.85	W	3.5	6	S
20250321.03	0.76	W	3.4	6	SW
20250321.06	0.67	W	3.2	6	SW
20250321.09	0.64	W	3.1	6	S
20250321.12	0.66	W	3.0	7	S
20250321.15	0.66	W	3.1	7	S
20250321.18	0.66	W	3.1	6	SW
20250321.21	0.65	W	3.1	6	SW
20250322.00	0.62	W	3.1	6	SW
20250322.03	0.58	SW	3.1	5	SW
20250322.06	0.55	SW	3.2	5	S
20250322.09	0.56	SW	3.1	6	S
20250322.12	0.63	W	3.1	7	S

Wind condition in the Aktau

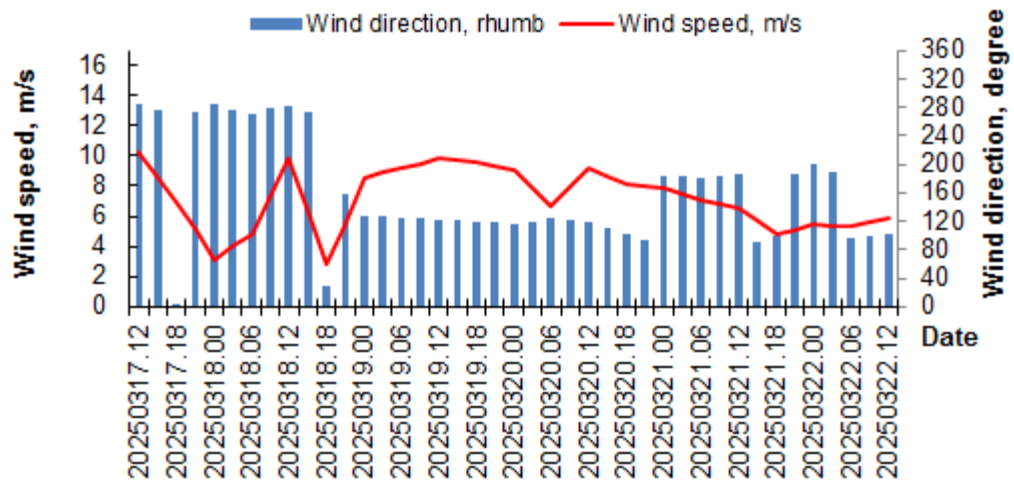


Wave condition in the Aktau

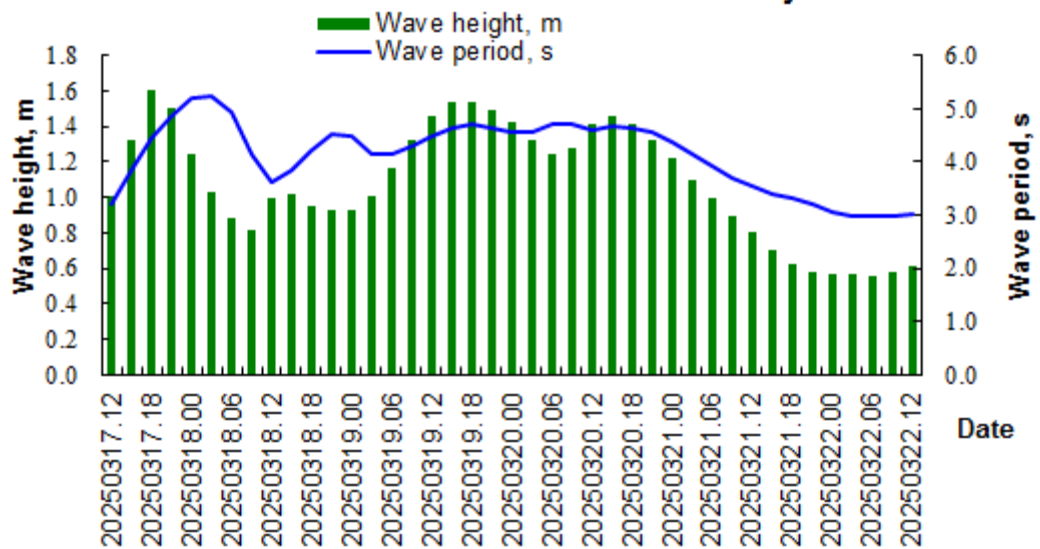


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250317.12	1.01	E	3.2	10	W
20250317.15	1.31	E	3.8	8	W
20250317.18	1.55	E	4.4	6	W
20250317.21	1.49	E	4.8	5	W
20250318.00	1.24	E	5.2	3	NW
20250318.03	1.05	E	5.3	4	NW
20250318.06	0.93	E	4.9	6	W
20250318.09	0.86	E	4.3	6	W
20250318.12	0.88	E	3.9	6	W
20250318.15	0.87	E	4.1	4	W
20250318.18	0.83	E	4.4	2	W
20250318.21	0.82	E	4.6	5	SE
20250319.00	0.87	E	4.4	9	SE
20250319.03	1.00	NE	4.1	9	SE
20250319.06	1.13	N	4.1	9	SE
20250319.09	1.27	NW	4.2	10	SE
20250319.12	1.44	NW	4.4	10	SE
20250319.15	1.48	NW	4.6	10	SE
20250319.18	1.41	NW	4.6	9	SE
20250319.21	1.27	NW	4.5	8	SE
20250320.00	1.14	NW	4.4	7	SE
20250320.03	1.06	NW	4.4	6	SE
20250320.06	1.02	NW	4.6	5	E
20250320.09	1.07	NW	4.6	7	E
20250320.12	1.18	NW	4.4	8	E
20250320.15	1.25	NW	4.3	8	E
20250320.18	1.28	NW	4.3	9	S
20250320.21	1.21	NW	4.2	8	S
20250321.00	1.10	W	4.1	7	S
20250321.03	0.97	W	3.9	7	S
20250321.06	0.86	W	3.7	7	S
20250321.09	0.77	W	3.5	6	S
20250321.12	0.69	W	3.3	6	S
20250321.15	0.62	W	3.2	5	S
20250321.18	0.56	W	3.2	5	S
20250321.21	0.54	W	3.1	5	S
20250322.00	0.53	W	3.1	5	SW
20250322.03	0.53	W	3.0	5	S
20250322.06	0.52	W	3.0	5	S
20250322.09	0.52	W	2.9	5	S
20250322.12	0.54	W	3.0	5	S

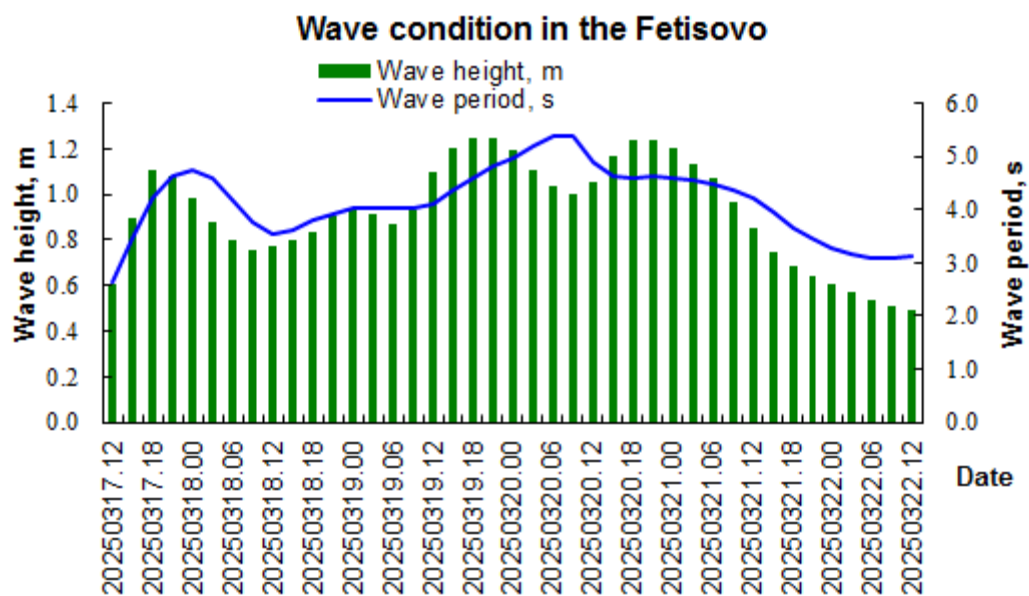
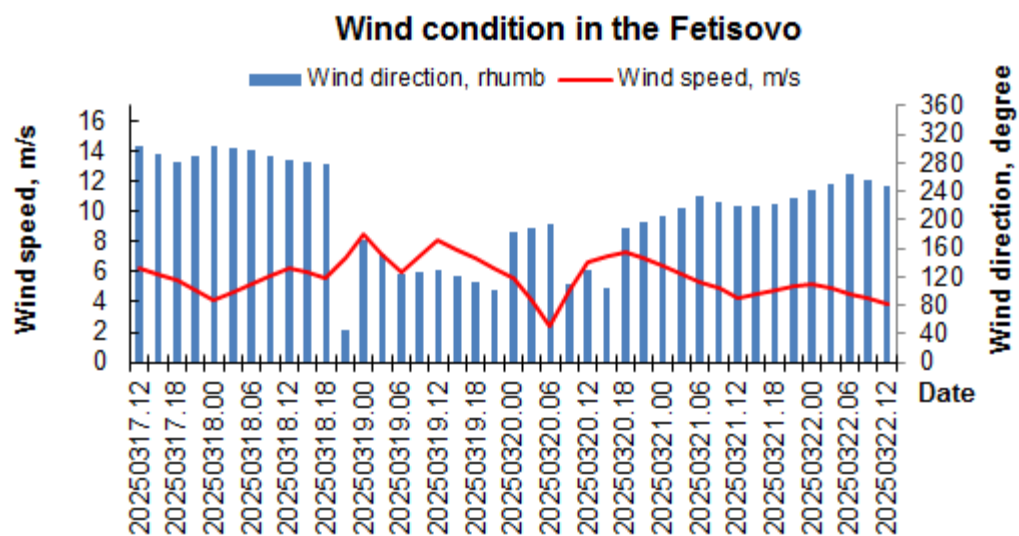
Wind condition in the Peschanyi



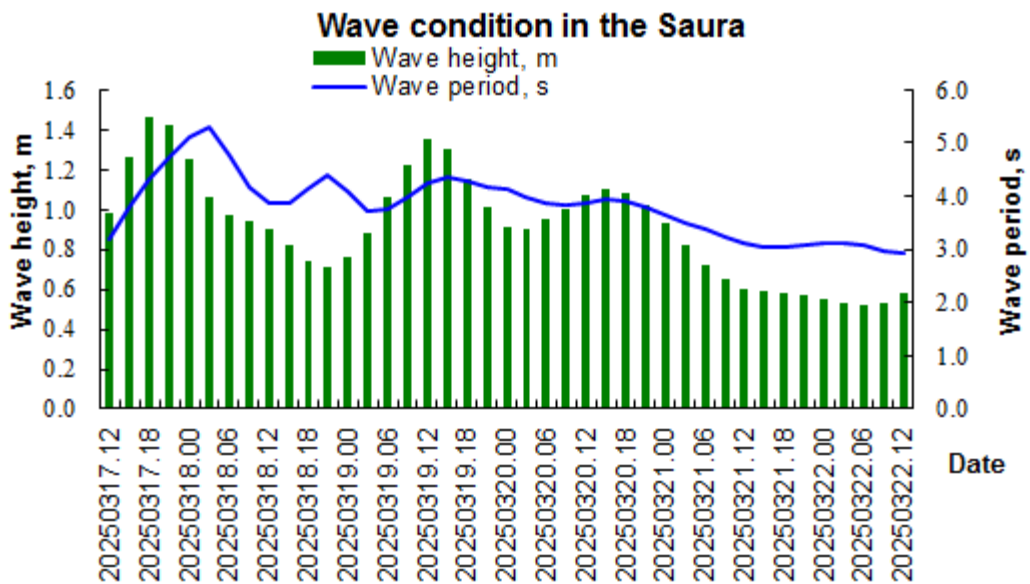
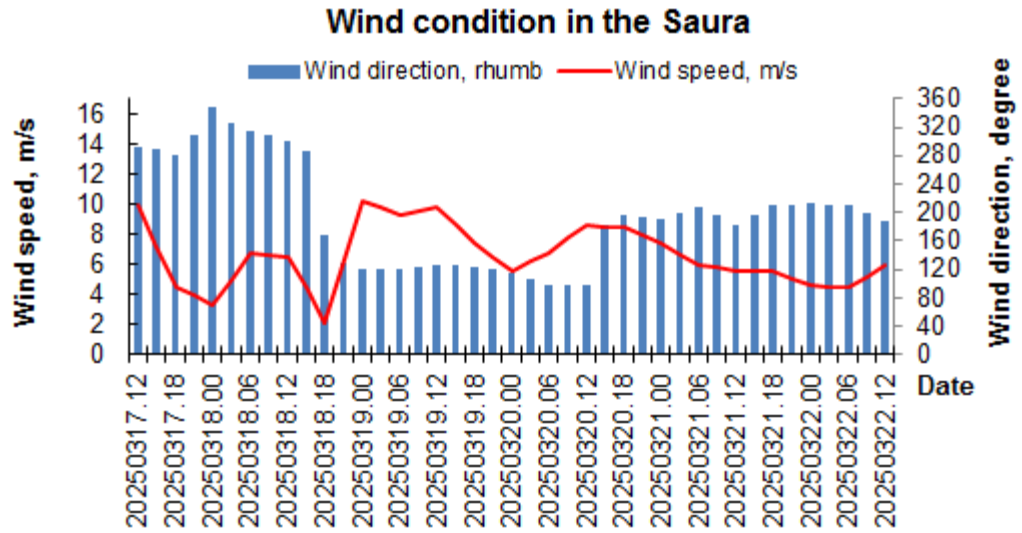
Wave condition in the Peschanyi



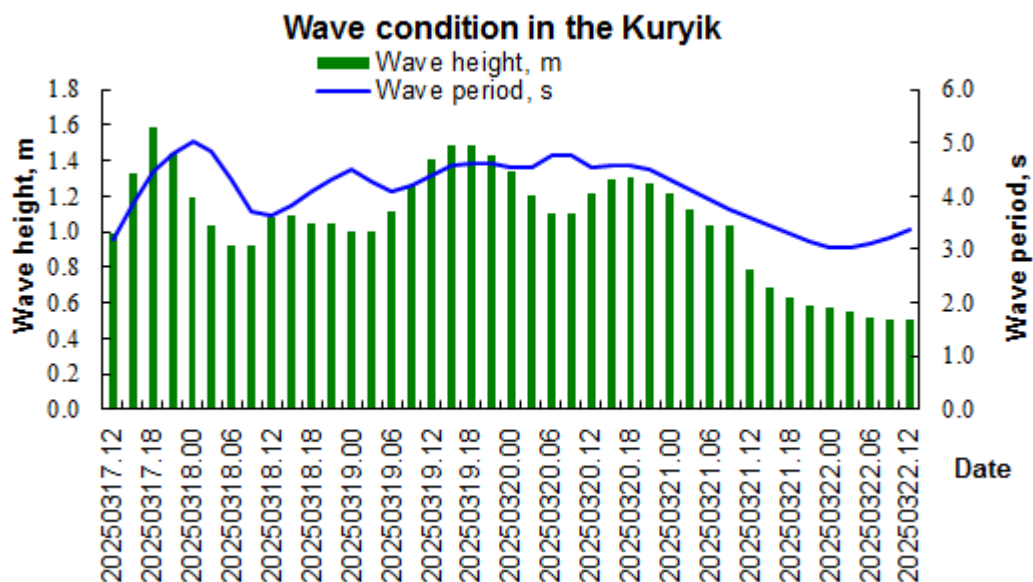
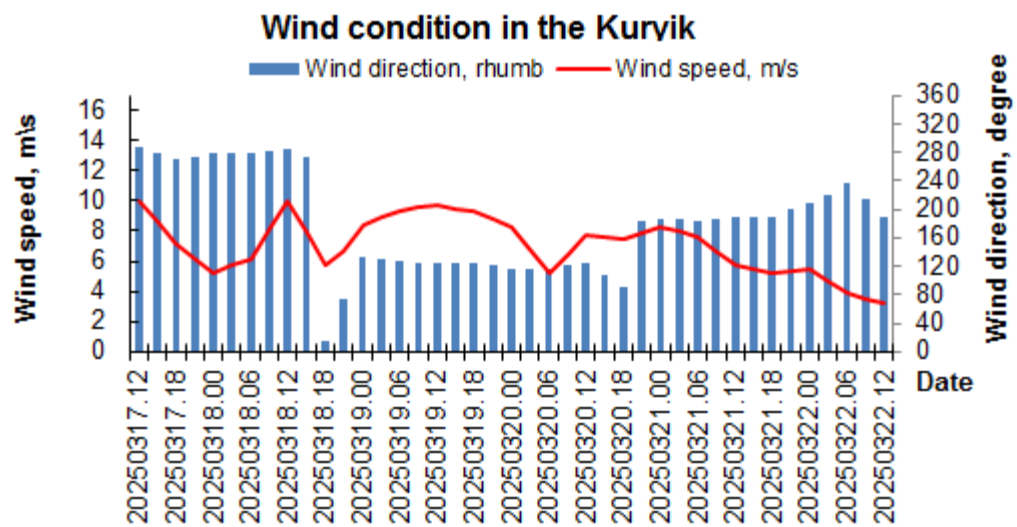
Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250317.12	1.01	E	3.2	10	W
20250317.15	1.33	E	3.8	9	W
20250317.18	1.60	E	4.4	7	N
20250317.21	1.51	E	4.9	5	W
20250318.00	1.24	E	5.2	3	W
20250318.03	1.03	E	5.2	4	W
20250318.06	0.88	E	5.0	5	W
20250318.09	0.82	E	4.1	7	W
20250318.12	1.00	E	3.6	10	W
20250318.15	1.01	E	3.8	6	W
20250318.18	0.95	E	4.2	3	NE
20250318.21	0.93	E	4.5	5	S
20250319.00	0.92	E	4.5	9	SE
20250319.03	1.01	NE	4.1	9	SE
20250319.06	1.16	N	4.1	9	SE
20250319.09	1.32	NW	4.3	10	SE
20250319.12	1.45	NW	4.5	10	SE
20250319.15	1.53	NW	4.6	10	SE
20250319.18	1.54	NW	4.7	10	SE
20250319.21	1.49	NW	4.6	9	SE
20250320.00	1.42	NW	4.6	9	SE
20250320.03	1.33	NW	4.6	8	SE
20250320.06	1.25	NW	4.7	7	SE
20250320.09	1.28	NW	4.7	8	SE
20250320.12	1.42	NW	4.6	9	SE
20250320.15	1.46	NW	4.7	9	E
20250320.18	1.42	NW	4.6	8	E
20250320.21	1.32	NW	4.5	8	E
20250321.00	1.22	NW	4.4	8	S
20250321.03	1.10	W	4.1	7	S
20250321.06	0.99	W	3.9	7	S
20250321.09	0.89	W	3.7	7	S
20250321.12	0.80	W	3.5	7	S
20250321.15	0.71	W	3.4	6	E
20250321.18	0.62	W	3.3	5	E
20250321.21	0.58	W	3.2	5	S
20250322.00	0.57	W	3.1	5	S
20250322.03	0.56	W	3.0	5	S
20250322.06	0.56	W	3.0	5	E
20250322.09	0.57	W	3.0	6	E
20250322.12	0.61	W	3.0	6	E



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250317.12	0.61	SE	2.6	6	NW
20250317.15	0.90	E	3.5	6	NW
20250317.18	1.11	E	4.2	5	W
20250317.21	1.08	E	4.6	5	W
20250318.00	0.99	E	4.7	4	NW
20250318.03	0.88	E	4.6	5	NW
20250318.06	0.80	E	4.2	5	NW
20250318.09	0.76	E	3.7	6	W
20250318.12	0.77	E	3.5	6	W
20250318.15	0.80	E	3.6	6	W
20250318.18	0.84	E	3.8	6	W
20250318.21	0.90	E	3.9	7	NE
20250319.00	0.94	NE	4.0	8	S
20250319.03	0.91	NE	4.0	7	SE
20250319.06	0.87	NE	4.0	6	SE
20250319.09	0.93	N	4.0	7	SE
20250319.12	1.10	N	4.1	8	SE
20250319.15	1.20	NW	4.4	7	SE
20250319.18	1.25	NW	4.6	7	SE
20250319.21	1.24	NW	4.8	6	E
20250320.00	1.19	NW	5.0	6	S
20250320.03	1.10	NW	5.2	4	S
20250320.06	1.03	NW	5.4	2	S
20250320.09	1.00	NW	5.4	5	E
20250320.12	1.05	NW	4.9	7	SE
20250320.15	1.16	NW	4.6	7	E
20250320.18	1.24	NW	4.6	7	S
20250320.21	1.24	NW	4.6	7	S
20250321.00	1.20	NW	4.6	6	SW
20250321.03	1.14	NW	4.6	6	SW
20250321.06	1.07	W	4.5	5	SW
20250321.09	0.97	W	4.4	5	SW
20250321.12	0.85	W	4.2	4	SW
20250321.15	0.75	W	4.0	5	SW
20250321.18	0.69	W	3.7	5	SW
20250321.21	0.64	W	3.5	5	SW
20250322.00	0.61	W	3.3	5	SW
20250322.03	0.57	W	3.2	5	W
20250322.06	0.54	SW	3.1	5	W
20250322.09	0.51	W	3.1	4	W
20250322.12	0.49	W	3.1	4	SW



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250317.12	0.98	SE	3.2	10	NW
20250317.15	1.26	SE	3.8	7	W
20250317.18	1.47	SE	4.3	4	W
20250317.21	1.43	SE	4.7	4	NW
20250318.00	1.25	SE	5.1	3	N
20250318.03	1.06	SE	5.3	5	NW
20250318.06	0.97	SE	4.8	7	NW
20250318.09	0.94	SE	4.2	7	NW
20250318.12	0.90	SE	3.9	6	NW
20250318.15	0.82	SE	3.9	5	W
20250318.18	0.74	E	4.1	2	S
20250318.21	0.71	E	4.4	6	SE
20250319.00	0.76	E	4.1	10	SE
20250319.03	0.89	NE	3.7	10	SE
20250319.06	1.06	N	3.8	9	SE
20250319.09	1.23	NW	4.0	10	SE
20250319.12	1.35	NW	4.2	10	SE
20250319.15	1.31	NW	4.3	9	SE
20250319.18	1.16	NW	4.3	7	SE
20250319.21	1.01	NW	4.2	6	SE
20250320.00	0.91	NW	4.1	6	SE
20250320.03	0.90	NW	4.0	6	E
20250320.06	0.95	NW	3.9	7	E
20250320.09	1.00	NW	3.8	8	E
20250320.12	1.07	NW	3.9	9	E
20250320.15	1.10	NW	3.9	9	S
20250320.18	1.09	W	3.9	8	S
20250320.21	1.02	W	3.8	8	S
20250321.00	0.93	W	3.7	7	S
20250321.03	0.82	W	3.5	7	S
20250321.06	0.72	W	3.4	6	SW
20250321.09	0.65	W	3.2	6	S
20250321.12	0.60	W	3.1	6	S
20250321.15	0.59	W	3.0	6	S
20250321.18	0.58	W	3.0	6	SW
20250321.21	0.57	W	3.1	5	SW
20250322.00	0.55	W	3.1	5	SW
20250322.03	0.53	W	3.1	5	SW
20250322.06	0.52	W	3.1	5	SW
20250322.09	0.53	W	3.0	5	S
20250322.12	0.58	W	2.9	6	S



Date time	Kuryik				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250317.12	0.99	E	3.2	10	W
20250317.15	1.32	E	3.9	9	W
20250317.18	1.59	E	4.5	7	W
20250317.21	1.44	E	4.8	6	W
20250318.00	1.20	E	5.0	5	W
20250318.03	1.03	E	4.8	6	W
20250318.06	0.92	E	4.3	6	W
20250318.09	0.93	E	3.7	8	W
20250318.12	1.08	E	3.6	10	W
20250318.15	1.09	E	3.8	8	W
20250318.18	1.04	E	4.1	6	N
20250318.21	1.04	E	4.3	7	E
20250319.00	1.00	E	4.5	8	SE
20250319.03	1.00	NE	4.3	9	SE
20250319.06	1.11	N	4.1	9	SE
20250319.09	1.26	NW	4.2	10	SE
20250319.12	1.40	NW	4.4	10	SE
20250319.15	1.48	NW	4.6	10	SE
20250319.18	1.49	NW	4.6	9	SE
20250319.21	1.43	NW	4.6	9	SE
20250320.00	1.34	NW	4.5	8	SE
20250320.03	1.21	NW	4.5	7	SE
20250320.06	1.11	NW	4.8	5	SE
20250320.09	1.11	NW	4.8	6	SE
20250320.12	1.22	NW	4.5	8	SE
20250320.15	1.30	NW	4.6	8	E
20250320.18	1.30	NW	4.6	7	E
20250320.21	1.27	NW	4.5	8	S
20250321.00	1.21	NW	4.3	8	S
20250321.03	1.13	W	4.1	8	S
20250321.06	1.03	W	3.9	8	S
20250321.09	1.03	W	3.7	7	S
20250321.12	0.78	W	3.6	6	S
20250321.15	0.69	W	3.4	6	S
20250321.18	0.62	W	3.3	5	S
20250321.21	0.59	W	3.1	5	S
20250322.00	0.57	W	3.0	5	SW
20250322.03	0.55	W	3.0	5	SW
20250322.06	0.52	W	3.1	4	SW
20250322.09	0.50	W	3.2	3	SW
20250322.12	0.50	W	3.4	3	S

**Calculation characteristics were obtained using the SWAN wave model, adapted in RSE «Kazhydromet» to the conditions of the Caspian Sea.*

Compiled by: Bazarbai L.B
Checked by: Shishkina G.M.

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