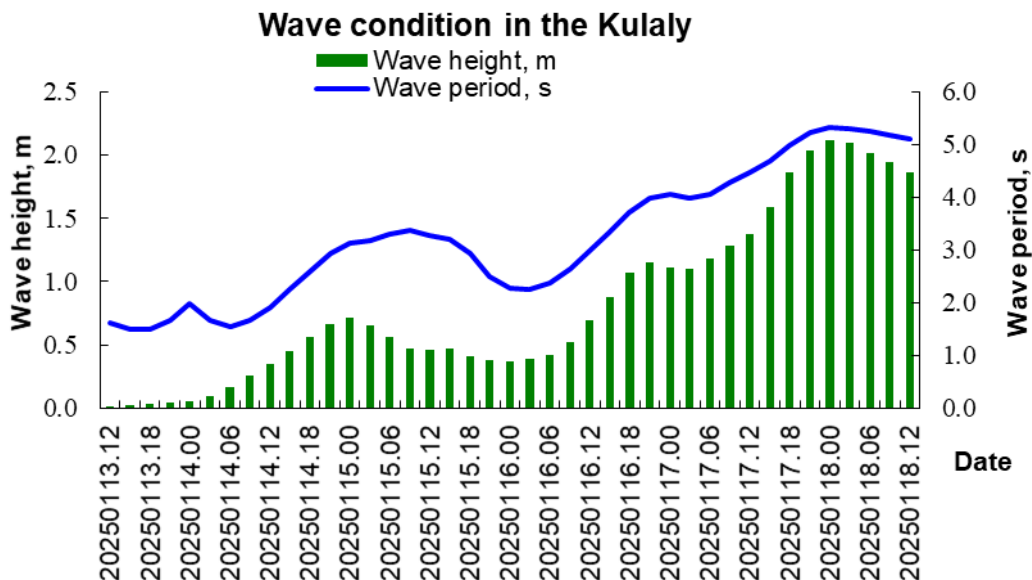
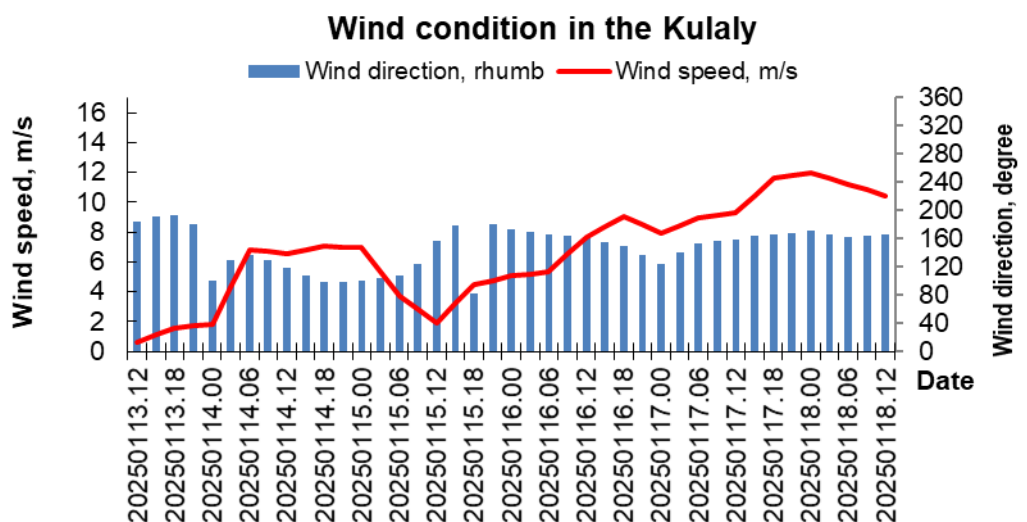




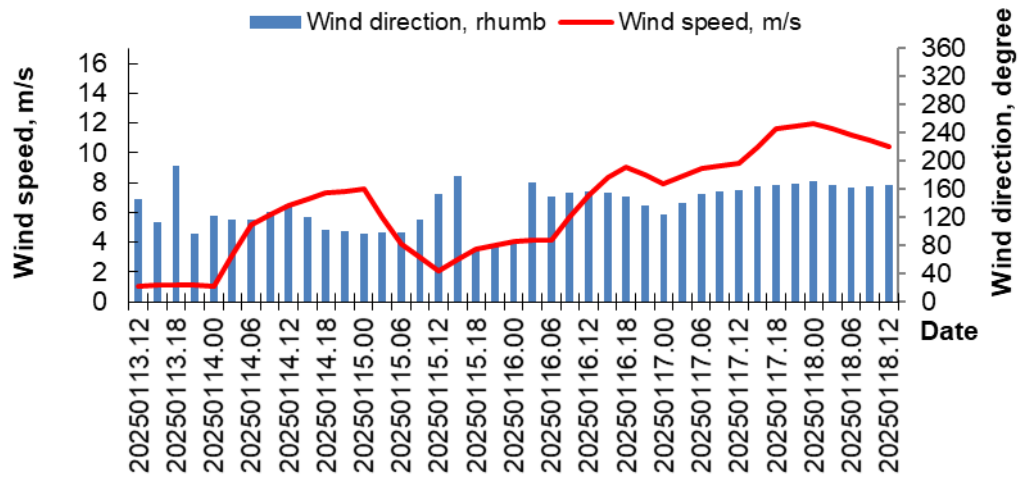
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
for the period January 13 - 18, 2025.**

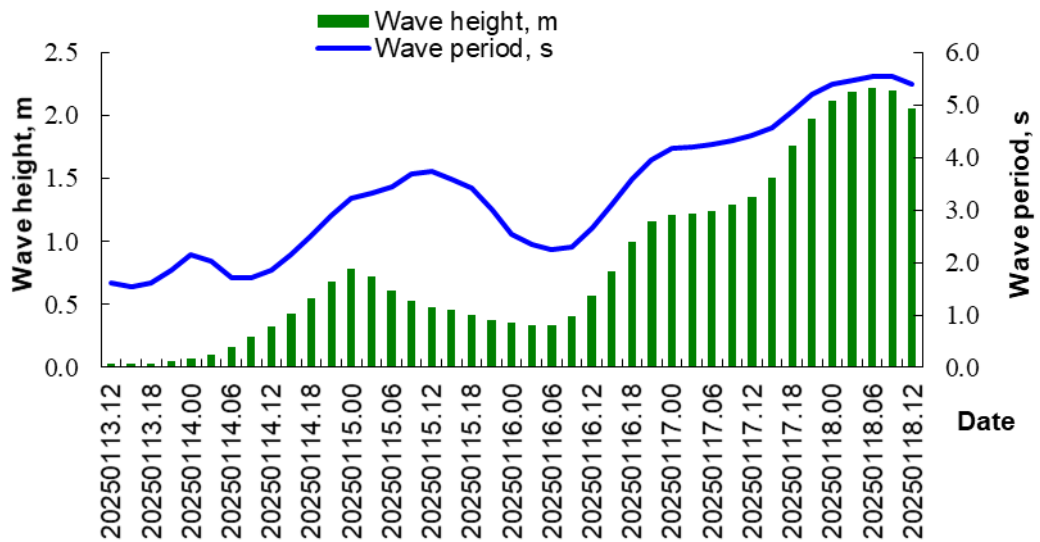


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250113.12	0.01	W	1.6	1	S
20250113.15	0.02	W	1.5	1	S
20250113.18	0.03	W	1.5	2	S
20250113.21	0.04	W	1.7	2	S
20250114.00	0.06	E	2.0	2	E
20250114.03	0.09	NE	1.7	4	SE
20250114.06	0.17	NW	1.5	7	SE
20250114.09	0.26	NW	1.7	7	SE
20250114.12	0.35	NW	1.9	7	SE
20250114.15	0.46	NW	2.2	7	E
20250114.18	0.56	NW	2.6	7	E
20250114.21	0.67	NW	2.9	7	E
20250115.00	0.71	NW	3.1	7	E
20250115.03	0.66	NW	3.2	5	E
20250115.06	0.56	NW	3.3	4	E
20250115.09	0.47	NW	3.4	3	SE
20250115.12	0.46	NW	3.3	2	S
20250115.15	0.47	NW	3.2	3	S
20250115.18	0.41	N	2.9	4	E
20250115.21	0.38	N	2.5	5	S
20250116.00	0.37	N	2.3	5	S
20250116.03	0.39	N	2.3	5	S
20250116.06	0.42	N	2.4	5	S
20250116.09	0.53	NW	2.6	7	S
20250116.12	0.70	NW	3.0	8	S
20250116.15	0.88	NW	3.4	8	SE
20250116.18	1.07	NW	3.7	9	SE
20250116.21	1.15	NW	4.0	8	SE
20250117.00	1.11	NW	4.1	8	SE
20250117.03	1.10	NW	4.0	8	SE
20250117.06	1.18	NW	4.1	9	SE
20250117.09	1.28	NW	4.3	9	SE
20250117.12	1.38	N	4.5	9	S
20250117.15	1.58	N	4.7	10	S
20250117.18	1.86	N	5.0	12	S
20250117.21	2.04	N	5.2	12	S
20250118.00	2.12	N	5.3	12	S
20250118.03	2.09	N	5.3	12	S
20250118.06	2.01	N	5.2	11	S
20250118.09	1.94	N	5.2	11	S
20250118.12	1.86	N	5.1	10	S

Wind condition in the Fort-Shevchenko

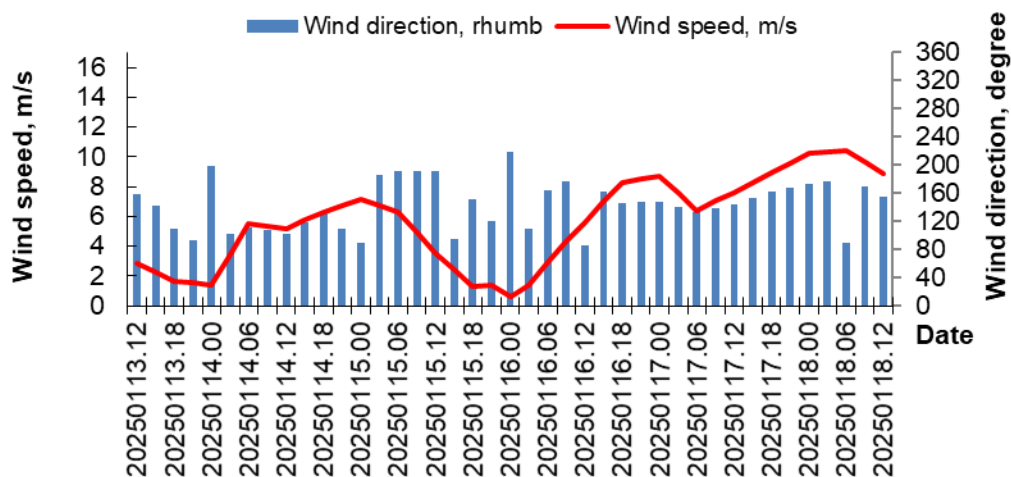


Wave condition in the Fort-Shevchenko

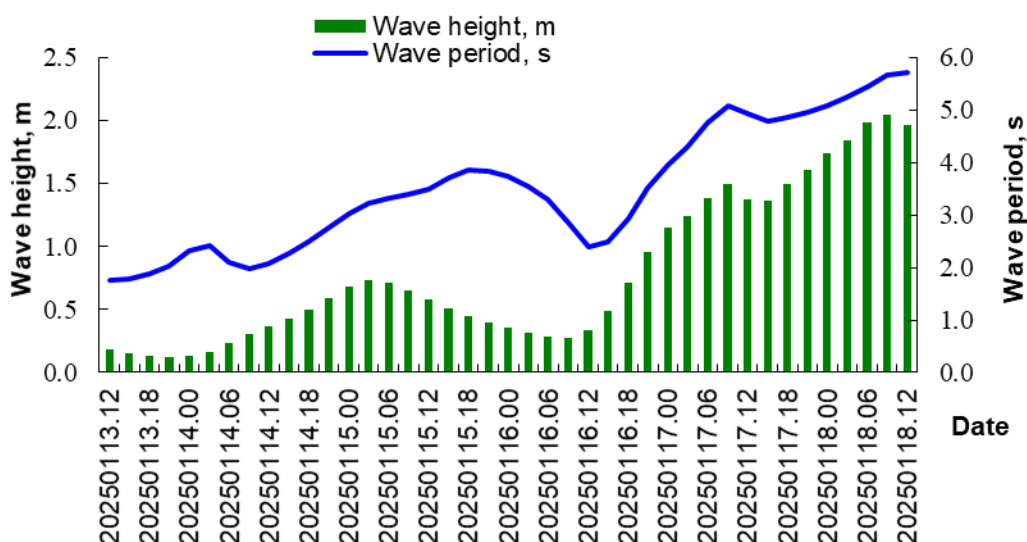


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250113.12	0.03	NW	1.6	1	SE
20250113.15	0.03	NW	1.5	1	SE
20250113.18	0.04	W	1.6	1	S
20250113.21	0.05	SE	1.8	1	E
20250114.00	0.07	E	2.2	1	SE
20250114.03	0.10	E	2.0	3	SE
20250114.06	0.16	N	1.7	5	SE
20250114.09	0.24	NW	1.7	6	SE
20250114.12	0.33	NW	1.9	6	SE
20250114.15	0.43	NW	2.1	7	SE
20250114.18	0.55	NW	2.5	7	E
20250114.21	0.69	NW	2.9	7	E
20250115.00	0.79	W	3.2	8	E
20250115.03	0.72	NW	3.3	6	E
20250115.06	0.61	NW	3.5	4	E
20250115.09	0.53	NW	3.7	3	SE
20250115.12	0.48	NW	3.7	2	SE
20250115.15	0.45	NW	3.6	3	S
20250115.18	0.42	NW	3.4	4	E
20250115.21	0.38	NW	3.0	4	E
20250116.00	0.35	NW	2.5	4	E
20250116.03	0.33	NW	2.3	4	S
20250116.06	0.33	NW	2.2	4	SE
20250116.09	0.40	NW	2.3	6	SE
20250116.12	0.56	NW	2.7	7	SE
20250116.15	0.77	NW	3.1	8	SE
20250116.18	1.00	NW	3.6	9	SE
20250116.21	1.16	NW	4.0	8	SE
20250117.00	1.21	NW	4.2	8	SE
20250117.03	1.22	NW	4.2	8	SE
20250117.06	1.24	NW	4.2	9	SE
20250117.09	1.29	NW	4.3	9	SE
20250117.12	1.35	NW	4.4	9	S
20250117.15	1.50	NW	4.6	10	S
20250117.18	1.76	N	4.9	12	S
20250117.21	1.97	N	5.2	12	S
20250118.00	2.11	N	5.4	12	S
20250118.03	2.18	N	5.5	12	S
20250118.06	2.22	N	5.5	11	S
20250118.09	2.19	N	5.5	11	S
20250118.12	2.06	N	5.4	10	S

Wind condition in the Aktau

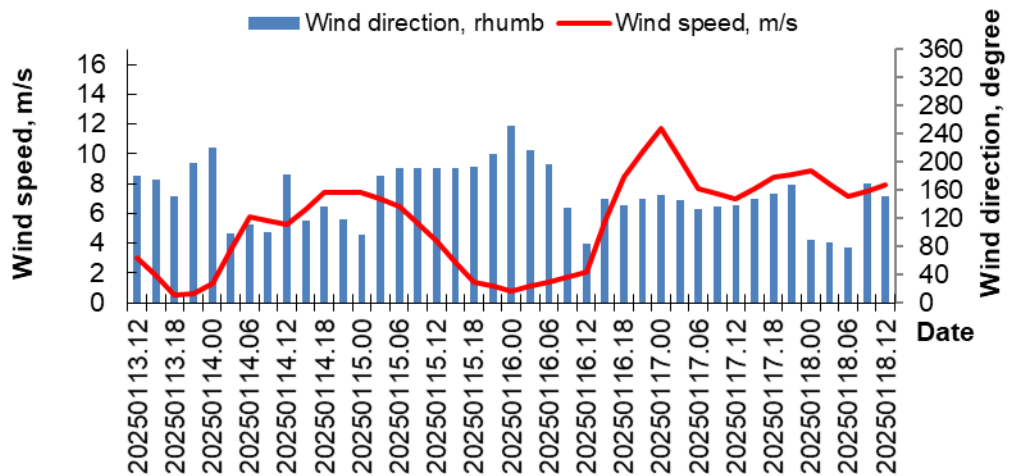


Wave condition in the Aktau

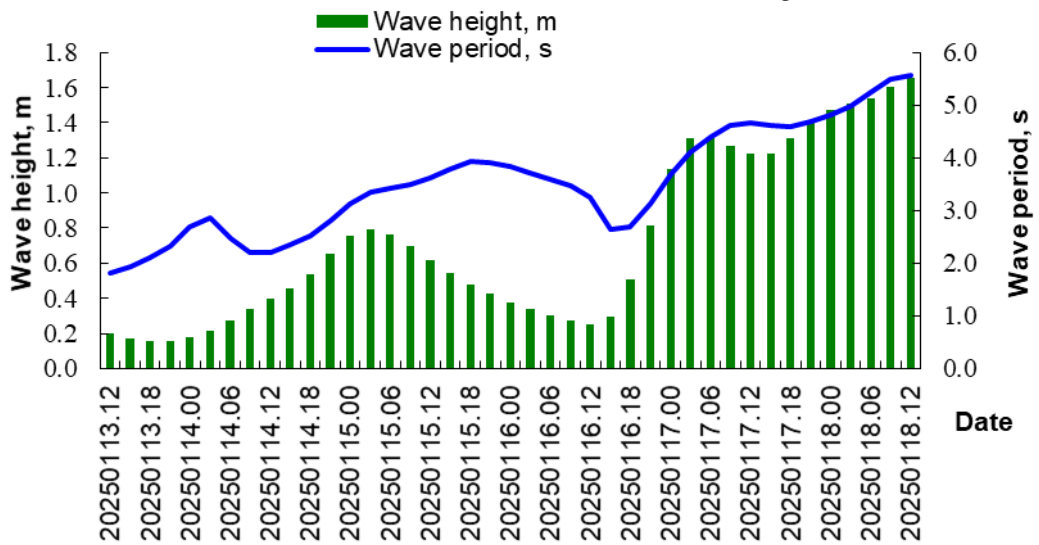


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250113.12	0.18	N	1.8	3	S
20250113.15	0.15	NW	1.8	2	SE
20250113.18	0.13	N	1.9	2	E
20250113.21	0.12	N	2.0	2	E
20250114.00	0.14	NE	2.3	1	S
20250114.03	0.17	NE	2.4	3	E
20250114.06	0.23	NE	2.1	6	E
20250114.09	0.30	N	2.0	5	E
20250114.12	0.37	NW	2.1	5	E
20250114.15	0.43	NW	2.3	6	SE
20250114.18	0.50	NW	2.5	6	SE
20250114.21	0.59	NW	2.8	7	E
20250115.00	0.68	NW	3.0	7	E
20250115.03	0.73	NW	3.2	7	S
20250115.06	0.71	NW	3.3	6	S
20250115.09	0.65	NW	3.4	5	S
20250115.12	0.58	NW	3.5	4	S
20250115.15	0.51	NW	3.7	2	E
20250115.18	0.45	NW	3.9	1	SE
20250115.21	0.40	NW	3.8	1	SE
20250116.00	0.35	NW	3.7	1	SW
20250116.03	0.32	NW	3.5	1	E
20250116.06	0.29	NW	3.3	3	S
20250116.09	0.28	NW	2.8	4	S
20250116.12	0.34	NW	2.4	6	E
20250116.15	0.49	NW	2.5	7	S
20250116.18	0.71	NW	2.9	8	SE
20250116.21	0.96	NW	3.5	9	SE
20250117.00	1.15	NW	4.0	9	SE
20250117.03	1.24	NW	4.3	8	SE
20250117.06	1.39	NW	4.8	6	SE
20250117.09	1.49	NW	5.1	7	SE
20250117.12	1.37	NW	4.9	8	SE
20250117.15	1.37	NW	4.8	8	SE
20250117.18	1.49	NW	4.8	9	S
20250117.21	1.61	NW	5.0	10	S
20250118.00	1.74	NW	5.1	10	S
20250118.03	1.84	NW	5.2	10	S
20250118.06	1.98	NW	5.4	10	E
20250118.09	2.05	NW	5.7	10	S
20250118.12	1.97	NW	5.7	9	SE

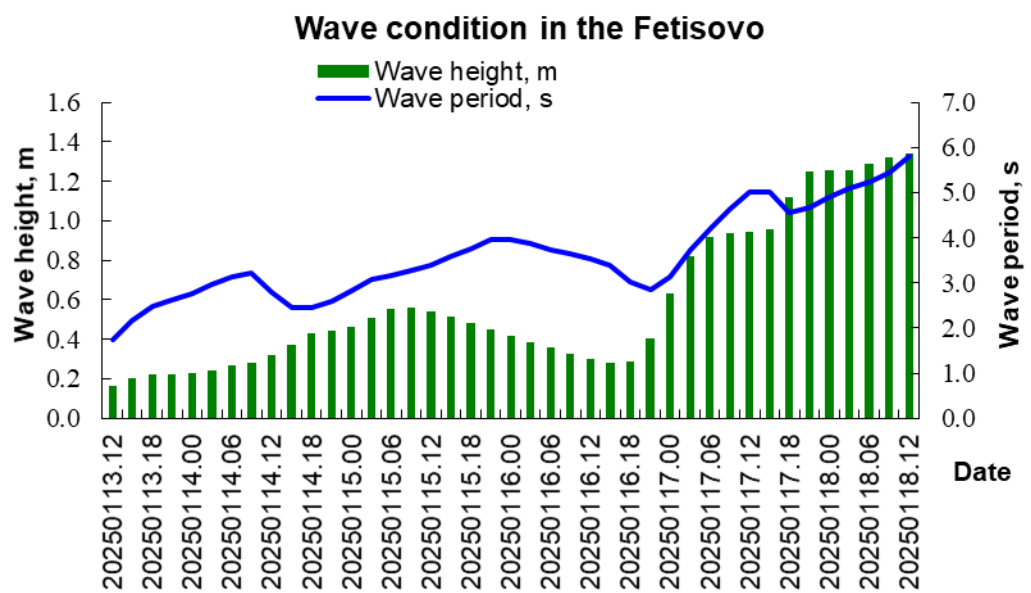
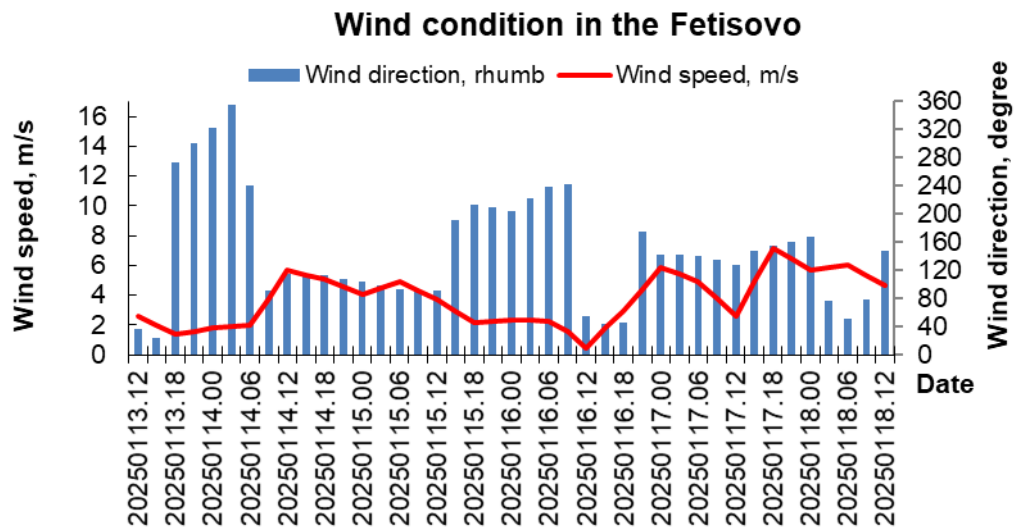
Wind condition in the Peschanyi



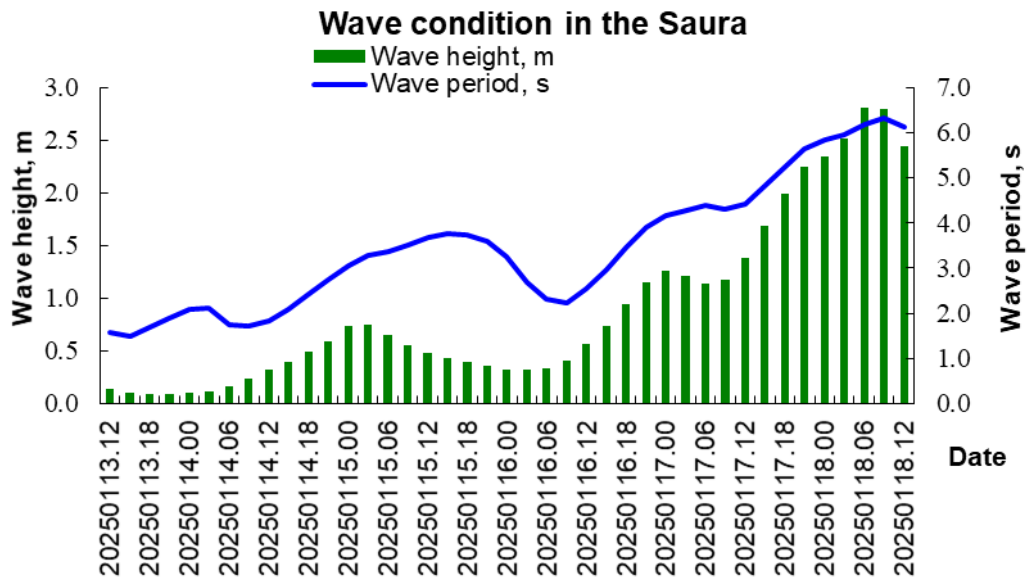
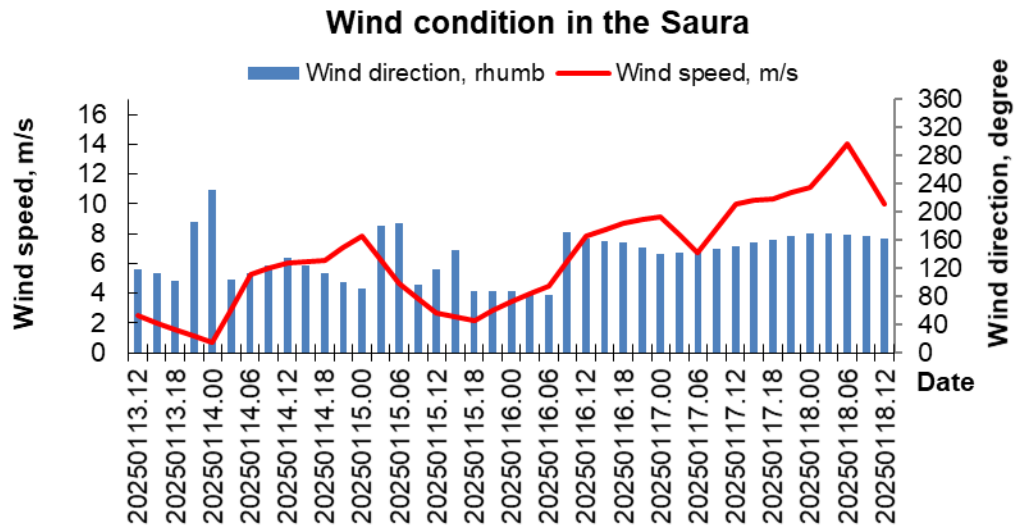
Wave condition in the Peschanyi



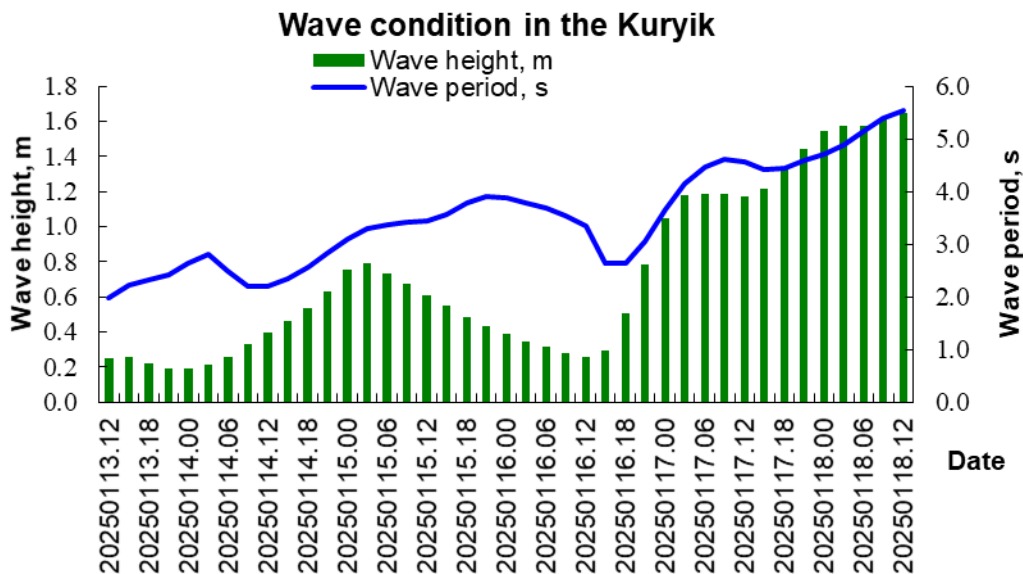
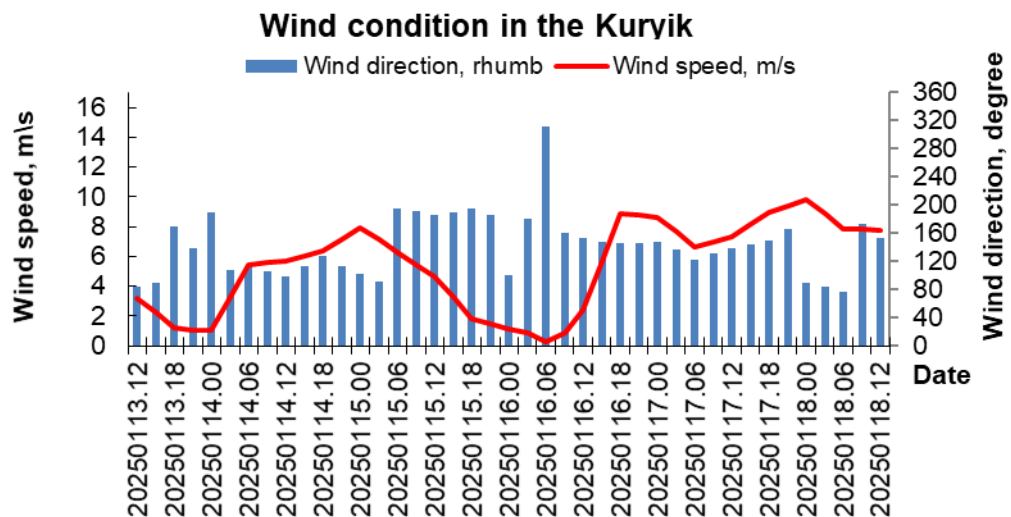
Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250113.12	0.20	N	1.8	3	S
20250113.15	0.17	N	1.9	2	S
20250113.18	0.15	N	2.1	0	SE
20250113.21	0.16	NE	2.3	1	S
20250114.00	0.18	NE	2.7	1	SW
20250114.03	0.22	E	2.9	4	E
20250114.06	0.27	NE	2.5	6	E
20250114.09	0.34	N	2.2	6	E
20250114.12	0.40	NW	2.2	5	S
20250114.15	0.46	NW	2.3	6	SE
20250114.18	0.54	NW	2.5	7	SE
20250114.21	0.65	NW	2.8	7	SE
20250115.00	0.75	NW	3.1	7	E
20250115.03	0.79	NW	3.4	7	S
20250115.06	0.76	NW	3.4	7	S
20250115.09	0.70	NW	3.5	5	S
20250115.12	0.62	NW	3.6	4	S
20250115.15	0.55	NW	3.8	3	S
20250115.18	0.48	NW	3.9	1	S
20250115.21	0.43	NW	3.9	1	SW
20250116.00	0.38	NW	3.8	1	W
20250116.03	0.34	NW	3.7	1	SW
20250116.06	0.30	NW	3.6	1	S
20250116.09	0.27	NW	3.5	2	SE
20250116.12	0.25	NW	3.2	2	E
20250116.15	0.29	NW	2.7	5	SE
20250116.18	0.51	NW	2.7	8	SE
20250116.21	0.82	NW	3.1	10	SE
20250117.00	1.13	NW	3.7	12	SE
20250117.03	1.31	NW	4.1	10	SE
20250117.06	1.31	NW	4.4	8	SE
20250117.09	1.27	NW	4.6	7	SE
20250117.12	1.23	NW	4.7	7	SE
20250117.15	1.23	NW	4.6	8	SE
20250117.18	1.31	NW	4.6	8	SE
20250117.21	1.40	NW	4.7	9	S
20250118.00	1.47	NW	4.8	9	E
20250118.03	1.51	NW	5.0	8	E
20250118.06	1.54	NW	5.3	7	E
20250118.09	1.61	NW	5.5	8	S
20250118.12	1.66	NW	5.6	8	SE



Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250113.12	0.17	NE	1.7	3	NE
20250113.15	0.20	NE	2.2	2	NE
20250113.18	0.22	NE	2.5	1	W
20250113.21	0.22	NE	2.6	2	NW
20250114.00	0.23	NE	2.8	2	NW
20250114.03	0.24	NE	3.0	2	N
20250114.06	0.27	NE	3.1	2	SW
20250114.09	0.28	NE	3.2	4	E
20250114.12	0.32	NE	2.8	6	SE
20250114.15	0.38	N	2.4	5	SE
20250114.18	0.43	N	2.5	5	SE
20250114.21	0.45	NW	2.6	5	E
20250115.00	0.47	NW	2.8	4	E
20250115.03	0.51	NW	3.1	4	E
20250115.06	0.55	NW	3.2	5	E
20250115.09	0.56	NW	3.3	4	E
20250115.12	0.54	NW	3.4	4	E
20250115.15	0.51	NW	3.6	3	S
20250115.18	0.48	NW	3.8	2	SW
20250115.21	0.45	NW	4.0	2	SW
20250116.00	0.42	NW	4.0	2	SW
20250116.03	0.39	NW	3.9	2	SW
20250116.06	0.36	NW	3.7	2	SW
20250116.09	0.33	NW	3.6	2	SW
20250116.12	0.30	NW	3.5	0	NE
20250116.15	0.28	NW	3.4	2	NE
20250116.18	0.29	NW	3.0	3	NE
20250116.21	0.40	NW	2.8	4	S
20250117.00	0.63	NW	3.1	6	SE
20250117.03	0.82	NW	3.7	5	SE
20250117.06	0.92	NW	4.2	5	SE
20250117.09	0.94	NW	4.6	4	SE
20250117.12	0.94	NW	5.0	3	SE
20250117.15	0.96	NW	5.0	5	SE
20250117.18	1.12	NW	4.6	7	SE
20250117.21	1.25	NW	4.7	6	S
20250118.00	1.25	NW	4.9	6	S
20250118.03	1.26	NW	5.1	6	E
20250118.06	1.29	NW	5.2	6	NE
20250118.09	1.32	NW	5.4	5	E
20250118.12	1.34	NW	5.8	5	SE



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250113.12	0.13	NW	1.6	2	SE
20250113.15	0.11	NW	1.5	2	E
20250113.18	0.09	W	1.7	2	E
20250113.21	0.09	S	1.9	1	S
20250114.00	0.10	SE	2.1	1	SW
20250114.03	0.11	E	2.1	3	E
20250114.06	0.17	NE	1.8	5	SE
20250114.09	0.24	NW	1.7	6	SE
20250114.12	0.32	NW	1.8	6	SE
20250114.15	0.40	NW	2.1	6	SE
20250114.18	0.49	NW	2.4	6	E
20250114.21	0.60	NW	2.7	7	E
20250115.00	0.73	NW	3.1	8	E
20250115.03	0.74	NW	3.3	6	S
20250115.06	0.65	NW	3.4	5	S
20250115.09	0.55	NW	3.5	4	E
20250115.12	0.48	NW	3.7	3	SE
20250115.15	0.43	NW	3.8	2	SE
20250115.18	0.39	NW	3.7	2	E
20250115.21	0.36	NW	3.6	3	E
20250116.00	0.33	NW	3.3	3	E
20250116.03	0.32	NW	2.7	4	E
20250116.06	0.33	NW	2.3	4	E
20250116.09	0.40	N	2.2	6	S
20250116.12	0.56	NW	2.5	8	S
20250116.15	0.74	NW	3.0	8	S
20250116.18	0.95	NW	3.4	9	SE
20250116.21	1.15	NW	3.9	9	SE
20250117.00	1.26	NW	4.2	9	SE
20250117.03	1.22	NW	4.3	8	SE
20250117.06	1.14	NW	4.4	7	SE
20250117.09	1.18	NW	4.3	8	SE
20250117.12	1.38	NW	4.4	10	SE
20250117.15	1.69	NW	4.8	10	SE
20250117.18	2.00	N	5.2	10	S
20250117.21	2.25	N	5.6	11	S
20250118.00	2.35	N	5.8	11	S
20250118.03	2.51	N	6.0	13	S
20250118.06	2.80	N	6.2	14	S
20250118.09	2.80	N	6.3	12	S
20250118.12	2.44	N	6.1	10	S



Date time	Kuryik				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250113.12	0.25	N	2.0	3	E
20250113.15	0.26	N	2.2	2	E
20250113.18	0.22	NE	2.3	1	S
20250113.21	0.19	NE	2.4	1	SE
20250114.00	0.19	NE	2.6	1	S
20250114.03	0.21	NE	2.8	3	E
20250114.06	0.26	NE	2.5	5	SE
20250114.09	0.33	N	2.2	6	E
20250114.12	0.39	NW	2.2	6	E
20250114.15	0.46	NW	2.4	6	SE
20250114.18	0.53	NW	2.6	6	SE
20250114.21	0.63	NW	2.8	7	SE
20250115.00	0.75	NW	3.1	8	E
20250115.03	0.79	NW	3.3	7	E
20250115.06	0.73	NW	3.4	6	S
20250115.09	0.67	NW	3.4	5	S
20250115.12	0.61	NW	3.4	5	S
20250115.15	0.55	NW	3.6	3	S
20250115.18	0.48	NW	3.8	2	S
20250115.21	0.43	NW	3.9	1	S
20250116.00	0.39	NW	3.9	1	E
20250116.03	0.35	NW	3.8	1	S
20250116.06	0.31	NW	3.7	0	NW
20250116.09	0.28	NW	3.5	1	S
20250116.12	0.26	NW	3.3	2	SE
20250116.15	0.29	NW	2.6	6	SE
20250116.18	0.51	NW	2.6	9	SE
20250116.21	0.78	NW	3.0	9	SE
20250117.00	1.05	NW	3.7	9	SE
20250117.03	1.18	NW	4.2	8	SE
20250117.06	1.18	NW	4.5	7	SE
20250117.09	1.18	NW	4.6	7	SE
20250117.12	1.17	NW	4.6	7	SE
20250117.15	1.21	NW	4.4	8	SE
20250117.18	1.32	NW	4.4	9	SE
20250117.21	1.44	NW	4.6	9	S
20250118.00	1.55	NW	4.7	10	E
20250118.03	1.58	NW	4.9	9	E
20250118.06	1.57	NW	5.1	8	E
20250118.09	1.62	NW	5.4	8	S
20250118.12	1.65	NW	5.5	8	SE

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

Compiled by: Zhagparova N.N.

Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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