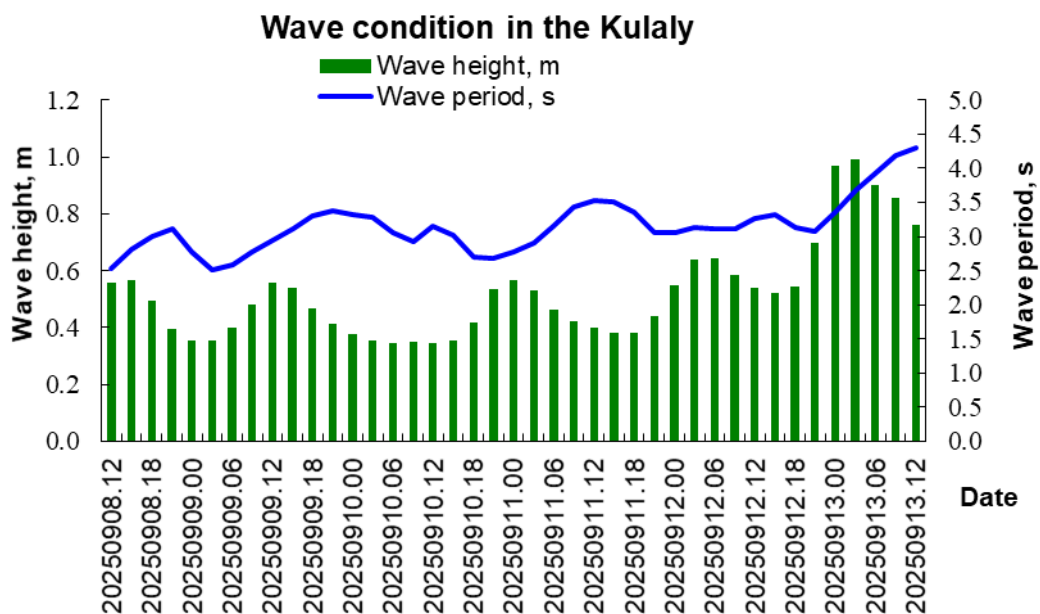
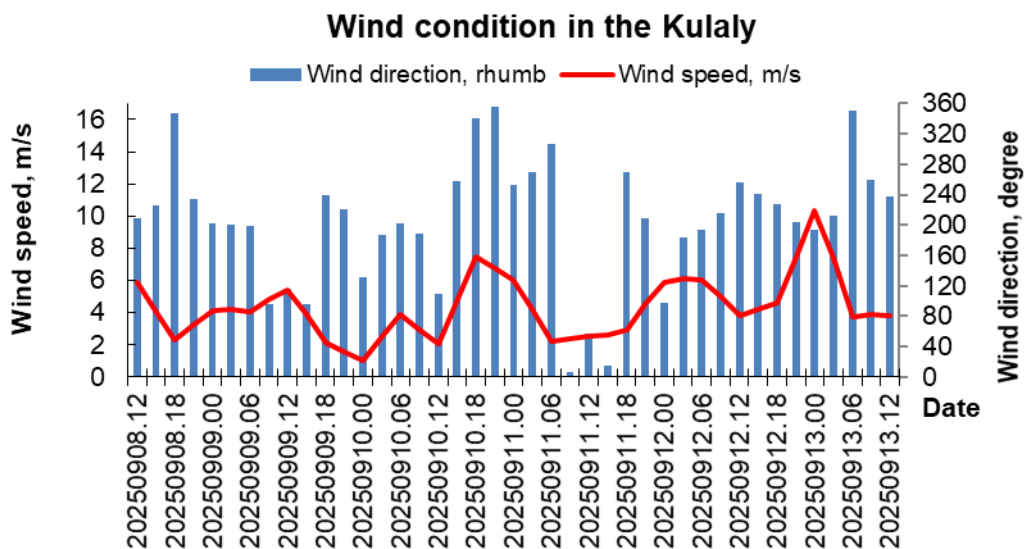




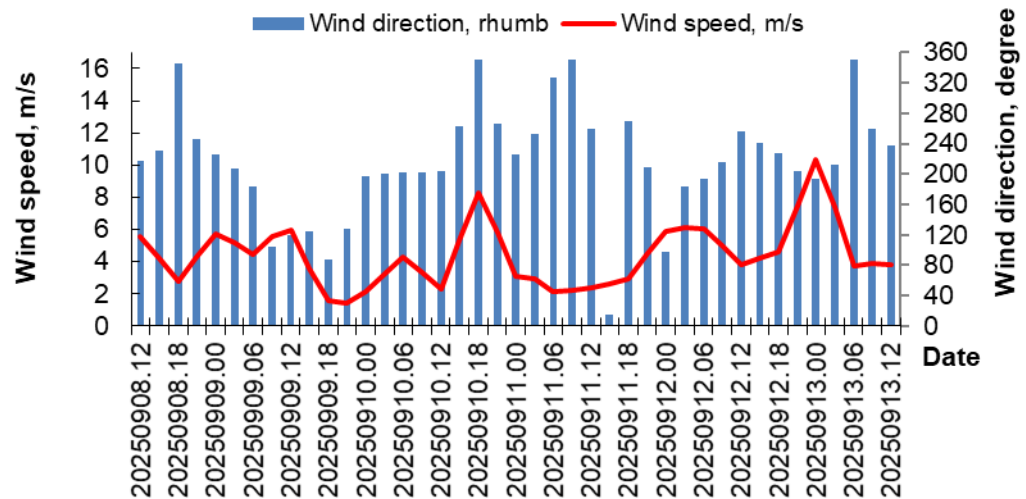
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period September 08 – 13, 2025.**

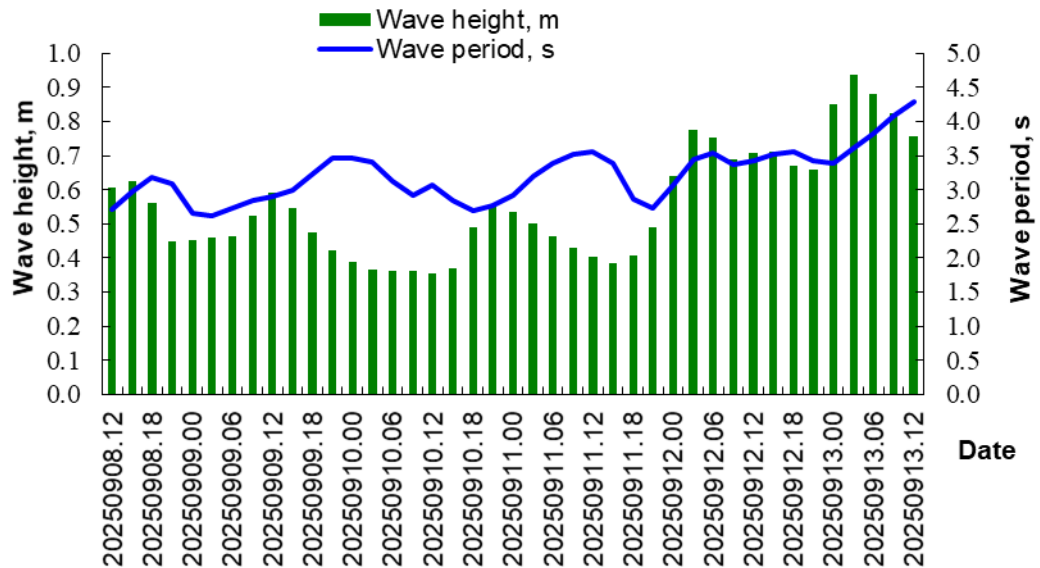


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250908.12	0.56	SW	2.5	6	SW
20250908.15	0.57	SW	2.8	4	SW
20250908.18	0.49	SW	3.0	2	N
20250908.21	0.39	SW	3.1	3	SW
20250909.00	0.35	SW	2.8	4	SW
20250909.03	0.36	SW	2.5	4	S
20250909.06	0.40	SW	2.6	4	S
20250909.09	0.48	W	2.8	5	E
20250909.12	0.56	W	2.9	5	SE
20250909.15	0.54	W	3.1	4	E
20250909.18	0.47	SW	3.3	2	SW
20250909.21	0.41	SW	3.4	2	SW
20250910.00	0.38	SW	3.3	1	SE
20250910.03	0.35	SW	3.3	3	S
20250910.06	0.35	SW	3.1	4	SW
20250910.09	0.35	SW	2.9	3	S
20250910.12	0.34	SW	3.2	2	E
20250910.15	0.35	SW	3.0	5	W
20250910.18	0.42	SW	2.7	7	N
20250910.21	0.53	S	2.7	7	N
20250911.00	0.57	S	2.8	6	W
20250911.03	0.53	S	2.9	4	W
20250911.06	0.46	S	3.2	2	NW
20250911.09	0.42	S	3.4	2	N
20250911.12	0.40	S	3.5	3	NE
20250911.15	0.38	S	3.5	3	N
20250911.18	0.38	SW	3.4	3	W
20250911.21	0.44	SW	3.1	5	SW
20250912.00	0.55	SW	3.1	6	E
20250912.03	0.64	SW	3.1	6	S
20250912.06	0.64	SW	3.1	6	S
20250912.09	0.59	SW	3.1	5	SW
20250912.12	0.54	SW	3.3	4	W
20250912.15	0.52	SW	3.3	4	SW
20250912.18	0.55	SW	3.1	5	SW
20250912.21	0.70	SW	3.1	8	SW
20250913.00	0.97	SW	3.4	10	S
20250913.03	0.99	SW	3.7	7	SW
20250913.06	0.90	SW	3.9	4	N
20250913.09	0.86	SW	4.2	4	W
20250913.12	0.76	SW	4.3	4	SW

Wind condition in the Fort-Shevchenko

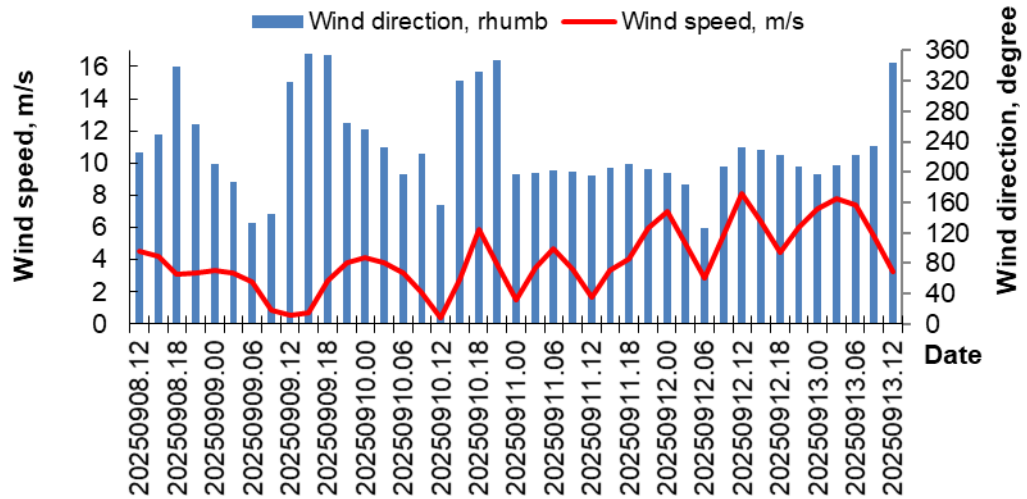


Wave condition in the Fort-Shevchenko

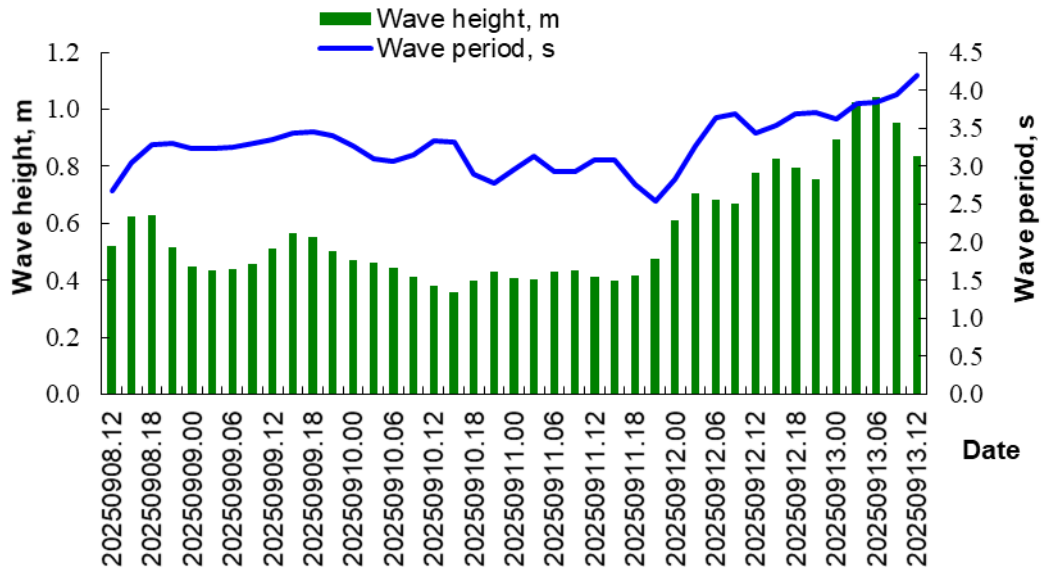


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250908.12	0.61	SW	2.7	6	SW
20250908.15	0.63	SW	3.0	4	SW
20250908.18	0.56	SW	3.2	3	N
20250908.21	0.45	SW	3.1	4	SW
20250909.00	0.45	SW	2.7	6	SW
20250909.03	0.46	SW	2.6	5	SW
20250909.06	0.46	SW	2.7	4	S
20250909.09	0.53	SW	2.8	6	E
20250909.12	0.59	W	2.9	6	SE
20250909.15	0.55	W	3.0	4	SE
20250909.18	0.47	W	3.2	2	E
20250909.21	0.42	SW	3.5	1	SE
20250910.00	0.39	SW	3.5	2	S
20250910.03	0.37	SW	3.4	3	S
20250910.06	0.36	SW	3.1	4	S
20250910.09	0.36	SW	2.9	3	SW
20250910.12	0.35	SW	3.1	2	SW
20250910.15	0.37	SW	2.8	5	W
20250910.18	0.49	S	2.7	8	N
20250910.21	0.56	S	2.8	6	W
20250911.00	0.54	S	2.9	3	SW
20250911.03	0.50	S	3.2	3	W
20250911.06	0.46	SW	3.4	2	NW
20250911.09	0.43	SW	3.5	2	N
20250911.12	0.40	SW	3.6	2	W
20250911.15	0.38	SW	3.4	3	N
20250911.18	0.41	SW	2.9	3	W
20250911.21	0.49	SW	2.7	5	SW
20250912.00	0.64	SW	3.1	6	E
20250912.03	0.78	SW	3.4	6	S
20250912.06	0.75	SW	3.5	6	S
20250912.09	0.69	SW	3.4	5	SW
20250912.12	0.71	SW	3.4	4	W
20250912.15	0.71	SW	3.5	4	SW
20250912.18	0.67	SW	3.5	5	SW
20250912.21	0.66	SW	3.4	8	SW
20250913.00	0.85	W	3.4	10	S
20250913.03	0.94	SW	3.6	7	SW
20250913.06	0.88	SW	3.8	4	N
20250913.09	0.82	SW	4.1	4	W
20250913.12	0.76	SW	4.3	4	SW

Wind condition in the Aktau

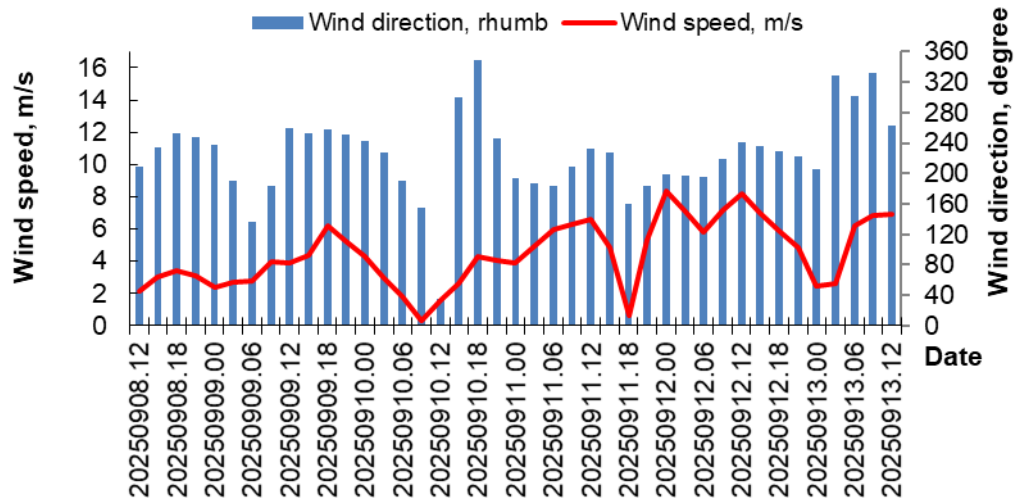


Wave condition in the Aktau

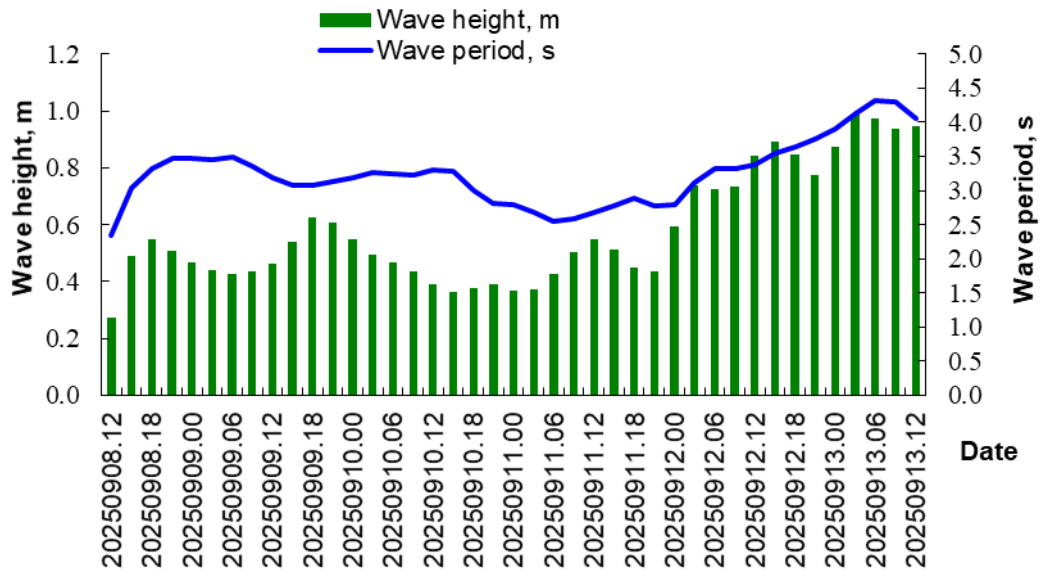


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250908.12	0.52	SW	2.7	5	SW
20250908.15	0.62	SW	3.1	4	W
20250908.18	0.63	SW	3.3	3	N
20250908.21	0.52	SW	3.3	3	W
20250909.00	0.45	SW	3.2	3	SW
20250909.03	0.44	SW	3.2	3	S
20250909.06	0.44	SW	3.3	3	SE
20250909.09	0.46	SW	3.3	1	SE
20250909.12	0.51	SW	3.3	1	NW
20250909.15	0.56	SW	3.4	1	N
20250909.18	0.55	SW	3.5	3	N
20250909.21	0.50	SW	3.4	4	W
20250910.00	0.47	SW	3.3	4	W
20250910.03	0.46	SW	3.1	4	SW
20250910.06	0.44	SW	3.1	3	S
20250910.09	0.41	SW	3.2	2	SW
20250910.12	0.38	SW	3.3	0	SE
20250910.15	0.36	SW	3.3	3	NW
20250910.18	0.40	S	2.9	6	NW
20250910.21	0.43	S	2.8	4	N
20250911.00	0.41	S	3.0	2	S
20250911.03	0.40	SW	3.1	3	S
20250911.06	0.43	SW	2.9	5	S
20250911.09	0.43	SW	2.9	3	S
20250911.12	0.41	SW	3.1	2	S
20250911.15	0.40	SW	3.1	3	SW
20250911.18	0.42	SW	2.8	4	SW
20250911.21	0.48	SW	2.5	6	SW
20250912.00	0.61	SW	2.8	7	S
20250912.03	0.70	W	3.3	5	S
20250912.06	0.68	W	3.6	3	SE
20250912.09	0.67	W	3.7	6	SW
20250912.12	0.78	SW	3.4	8	SW
20250912.15	0.83	SW	3.5	6	SW
20250912.18	0.80	SW	3.7	4	SW
20250912.21	0.76	SW	3.7	6	SW
20250913.00	0.89	SW	3.6	7	S
20250913.03	1.03	SW	3.8	8	SW
20250913.06	1.04	SW	3.8	7	SW
20250913.09	0.95	SW	3.9	5	SW
20250913.12	0.84	SW	4.2	3	N

Wind condition in the Peschanyi

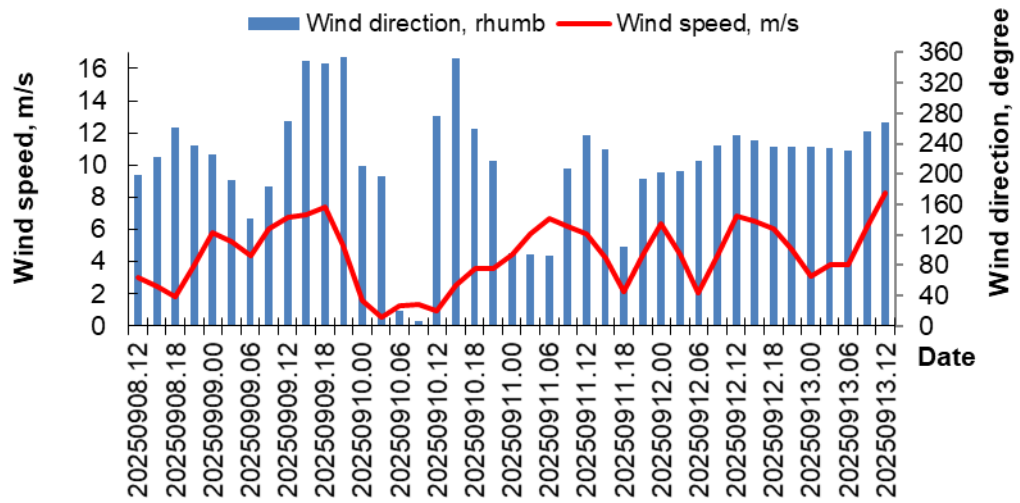


Wave condition in the Peschanyi

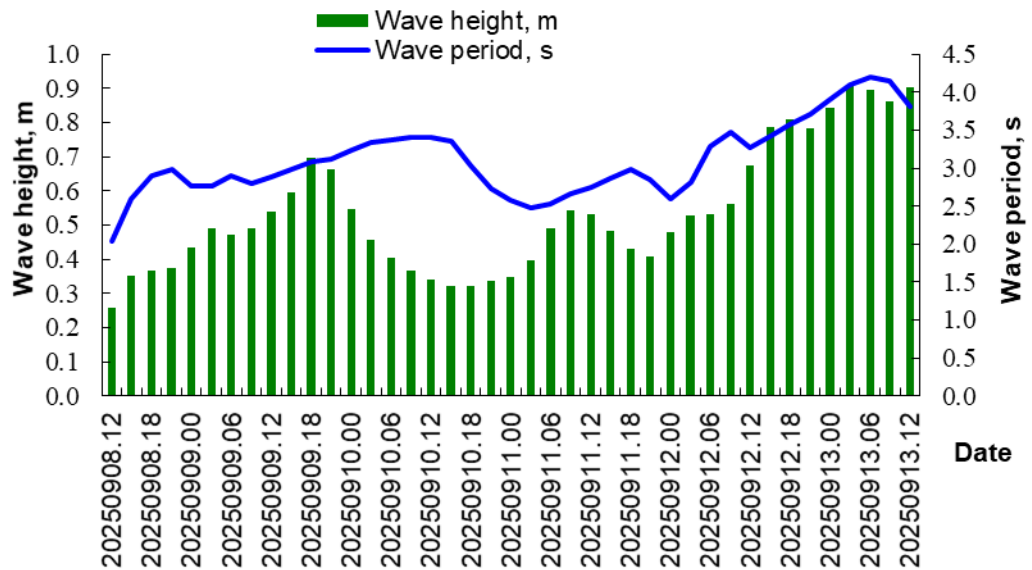


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250908.12	0.27	SW	2.3	2	SW
20250908.15	0.49	SW	3.0	3	SW
20250908.18	0.55	SW	3.3	3	W
20250908.21	0.51	SW	3.5	3	W
20250909.00	0.47	SW	3.5	2	SW
20250909.03	0.44	SW	3.5	3	S
20250909.06	0.43	SW	3.5	3	SE
20250909.09	0.43	SW	3.4	4	S
20250909.12	0.46	SW	3.2	4	W
20250909.15	0.54	SW	3.1	4	W
20250909.18	0.62	SW	3.1	6	W
20250909.21	0.61	SW	3.1	5	W
20250910.00	0.55	SW	3.2	4	SW
20250910.03	0.49	SW	3.3	3	SW
20250910.06	0.47	SW	3.2	2	S
20250910.09	0.43	SW	3.2	0	SE
20250910.12	0.39	SW	3.3	2	NE
20250910.15	0.36	SW	3.3	3	NW
20250910.18	0.38	SW	3.0	4	N
20250910.21	0.39	SW	2.8	4	SW
20250911.00	0.37	SW	2.8	4	S
20250911.03	0.37	SW	2.7	5	S
20250911.06	0.43	SW	2.5	6	S
20250911.09	0.50	SW	2.6	6	SW
20250911.12	0.55	SW	2.7	7	SW
20250911.15	0.51	SW	2.8	5	SW
20250911.18	0.45	SW	2.9	1	S
20250911.21	0.44	SW	2.8	5	S
20250912.00	0.59	SW	2.8	8	S
20250912.03	0.74	W	3.1	7	S
20250912.06	0.72	W	3.3	6	S
20250912.09	0.73	W	3.3	7	SW
20250912.12	0.84	SW	3.4	8	SW
20250912.15	0.89	SW	3.6	7	SW
20250912.18	0.85	SW	3.6	6	SW
20250912.21	0.77	SW	3.8	5	SW
20250913.00	0.87	SW	3.9	2	SW
20250913.03	0.99	SW	4.1	3	NW
20250913.06	0.97	SW	4.3	6	NW
20250913.09	0.94	SW	4.3	7	NW
20250913.12	0.95	SW	4.1	7	W

Wind condition in the Fetisovo

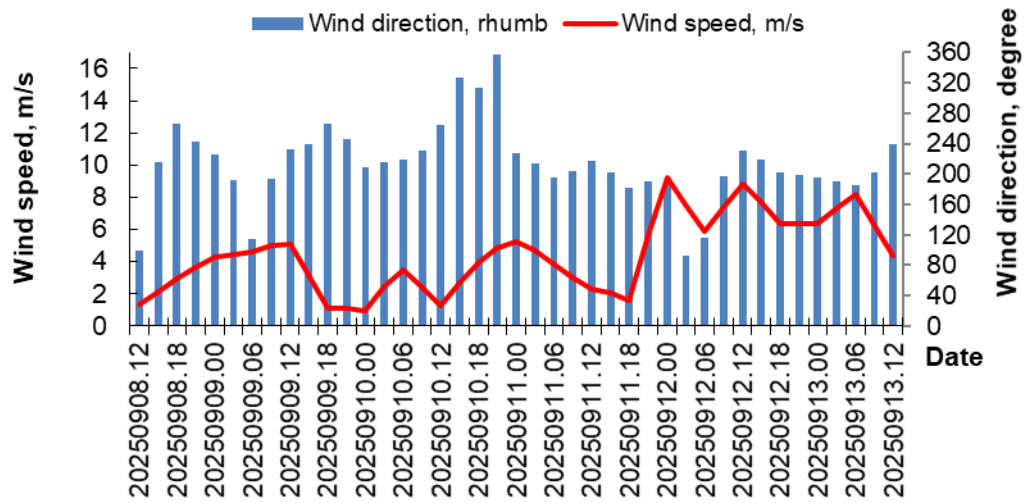


Wave condition in the Fetisovo

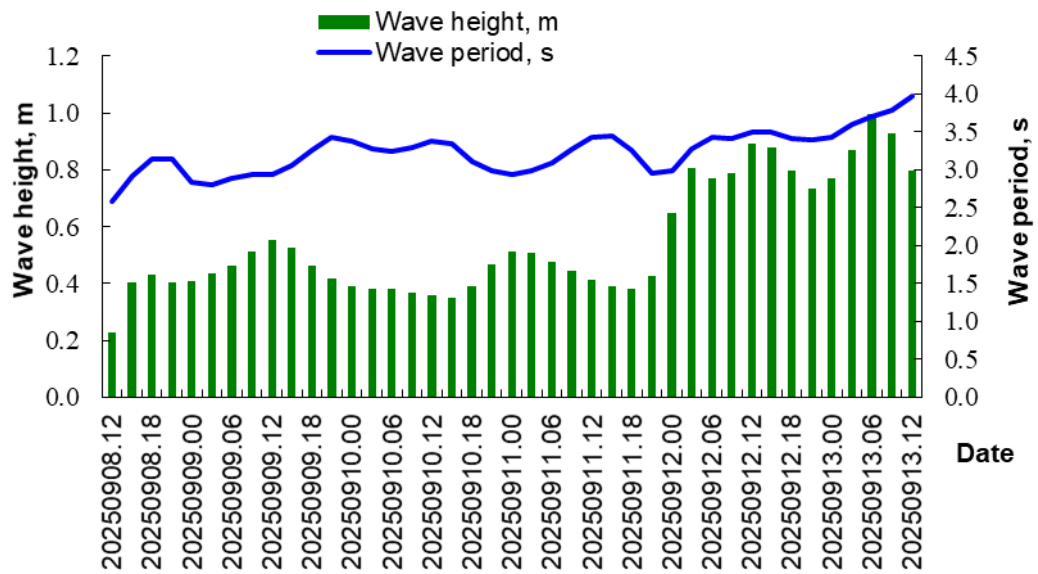


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250908.12	0.26	SW	2.0	3	S
20250908.15	0.35	SW	2.6	2	SW
20250908.18	0.37	SW	2.9	2	W
20250908.21	0.37	SW	3.0	4	SW
20250909.00	0.43	SW	2.8	6	SW
20250909.03	0.49	SW	2.8	5	S
20250909.06	0.47	SW	2.9	4	SE
20250909.09	0.49	W	2.8	6	S
20250909.12	0.54	SW	2.9	7	W
20250909.15	0.60	SW	3.0	7	N
20250909.18	0.70	S	3.1	7	N
20250909.21	0.66	S	3.1	5	N
20250910.00	0.55	S	3.2	2	SW
20250910.03	0.46	SW	3.3	1	S
20250910.06	0.40	SW	3.4	1	N
20250910.09	0.37	SW	3.4	1	N
20250910.12	0.34	SW	3.4	1	W
20250910.15	0.32	SW	3.3	3	N
20250910.18	0.32	SW	3.0	4	W
20250910.21	0.34	SW	2.7	4	SW
20250911.00	0.35	SW	2.6	4	E
20250911.03	0.40	SW	2.5	6	E
20250911.06	0.49	W	2.5	7	E
20250911.09	0.54	W	2.7	6	SW
20250911.12	0.53	SW	2.8	6	W
20250911.15	0.48	SW	2.9	4	SW
20250911.18	0.43	SW	3.0	2	E
20250911.21	0.41	SW	2.8	4	S
20250912.00	0.48	SW	2.6	6	S
20250912.03	0.53	SW	2.8	4	SW
20250912.06	0.53	W	3.3	2	SW
20250912.09	0.56	W	3.5	4	SW
20250912.12	0.67	SW	3.3	7	W
20250912.15	0.79	SW	3.4	7	SW
20250912.18	0.81	SW	3.6	6	SW
20250912.21	0.78	SW	3.7	5	SW
20250913.00	0.84	SW	3.9	3	SW
20250913.03	0.91	SW	4.1	4	SW
20250913.06	0.90	SW	4.2	4	SW
20250913.09	0.86	SW	4.2	6	W
20250913.12	0.90	SW	3.8	8	W

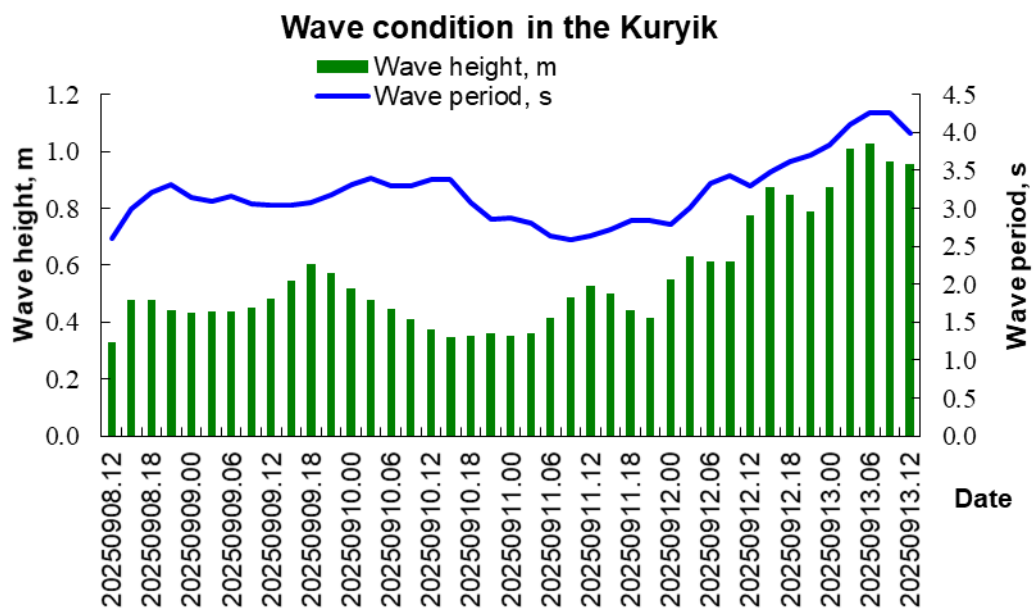
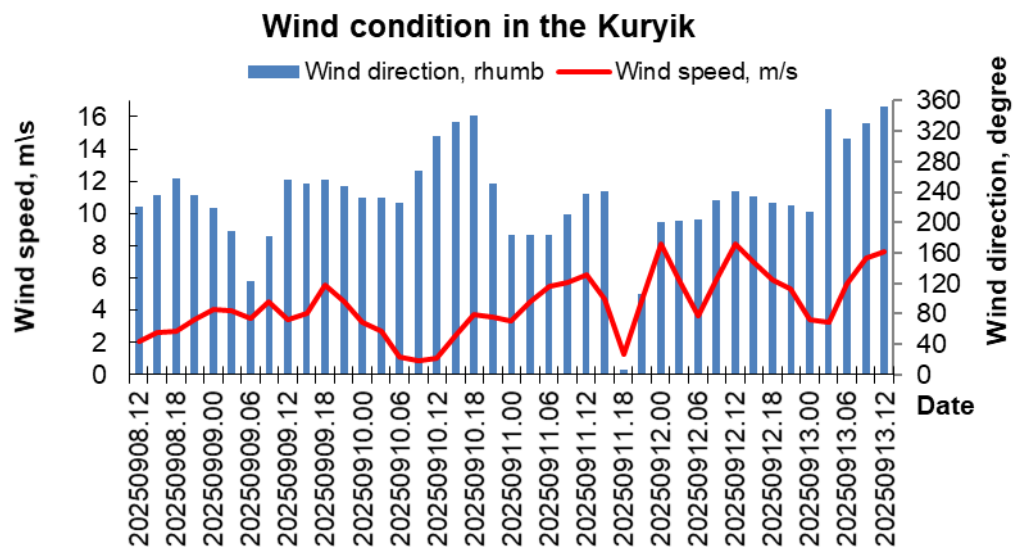
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250908.12	0.23	SW	2.6	1	E
20250908.15	0.40	SW	2.9	2	SW
20250908.18	0.43	SW	3.1	3	W
20250908.21	0.40	SW	3.1	4	SW
20250909.00	0.41	SW	2.8	4	SW
20250909.03	0.44	SW	2.8	4	S
20250909.06	0.46	SW	2.9	5	SE
20250909.09	0.51	SW	2.9	5	S
20250909.12	0.55	SW	2.9	5	SW
20250909.15	0.53	SW	3.1	3	SW
20250909.18	0.46	SW	3.3	1	W
20250909.21	0.42	SW	3.4	1	SW
20250910.00	0.39	SW	3.4	1	SW
20250910.03	0.38	SW	3.3	2	SW
20250910.06	0.38	SW	3.2	4	SW
20250910.09	0.37	SW	3.3	2	SW
20250910.12	0.36	SW	3.4	1	W
20250910.15	0.35	SW	3.4	3	NW
20250910.18	0.39	SW	3.1	4	NW
20250910.21	0.47	S	3.0	5	N
20250911.00	0.51	S	2.9	5	SW
20250911.03	0.51	SW	3.0	5	SW
20250911.06	0.48	SW	3.1	4	S
20250911.09	0.44	SW	3.3	3	SW
20250911.12	0.42	SW	3.4	2	SW
20250911.15	0.39	SW	3.4	2	S
20250911.18	0.38	SW	3.3	2	S
20250911.21	0.43	SW	3.0	6	S
20250912.00	0.65	SW	3.0	9	S
20250912.03	0.81	SW	3.3	8	E
20250912.06	0.77	SW	3.4	6	SE
20250912.09	0.79	W	3.4	7	S
20250912.12	0.89	SW	3.5	9	SW
20250912.15	0.88	SW	3.5	8	SW
20250912.18	0.80	SW	3.4	6	S
20250912.21	0.73	SW	3.4	6	S
20250913.00	0.77	SW	3.4	6	S
20250913.03	0.87	SW	3.6	7	S
20250913.06	1.00	W	3.7	8	S
20250913.09	0.93	W	3.8	6	SW
20250913.12	0.80	SW	4.0	4	SW



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250908.12	0.33	SW	2.6	2	SW
20250908.15	0.48	SW	3.0	3	SW
20250908.18	0.48	SW	3.2	3	W
20250908.21	0.44	SW	3.3	3	SW
20250909.00	0.44	SW	3.2	4	SW
20250909.03	0.44	SW	3.1	4	S
20250909.06	0.44	SW	3.2	3	SE
20250909.09	0.45	SW	3.1	5	S
20250909.12	0.48	SW	3.0	3	W
20250909.15	0.55	SW	3.0	4	W
20250909.18	0.61	SW	3.1	6	W
20250909.21	0.57	SW	3.2	5	SW
20250910.00	0.52	SW	3.3	3	SW
20250910.03	0.48	SW	3.4	3	SW
20250910.06	0.45	SW	3.3	1	SW
20250910.09	0.41	SW	3.3	1	W
20250910.12	0.37	SW	3.4	1	NW
20250910.15	0.35	SW	3.4	2	NW
20250910.18	0.35	SW	3.1	4	N
20250910.21	0.36	SW	2.9	4	W
20250911.00	0.35	SW	2.9	3	S
20250911.03	0.36	SW	2.8	5	S
20250911.06	0.41	SW	2.6	5	S
20250911.09	0.49	SW	2.6	6	SW
20250911.12	0.53	SW	2.6	6	SW
20250911.15	0.50	SW	2.7	5	SW
20250911.18	0.44	SW	2.8	1	N
20250911.21	0.42	SW	2.8	5	E
20250912.00	0.55	SW	2.8	8	S
20250912.03	0.63	W	3.0	6	S
20250912.06	0.61	W	3.3	4	SW
20250912.09	0.61	W	3.4	6	SW
20250912.12	0.77	SW	3.3	8	SW
20250912.15	0.87	SW	3.5	7	SW
20250912.18	0.85	SW	3.6	6	SW
20250912.21	0.79	SW	3.7	5	SW
20250913.00	0.88	SW	3.8	3	SW
20250913.03	1.01	SW	4.1	3	N
20250913.06	1.03	SW	4.3	6	NW
20250913.09	0.96	SW	4.3	7	NW
20250913.12	0.96	SW	4.0	8	N

**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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