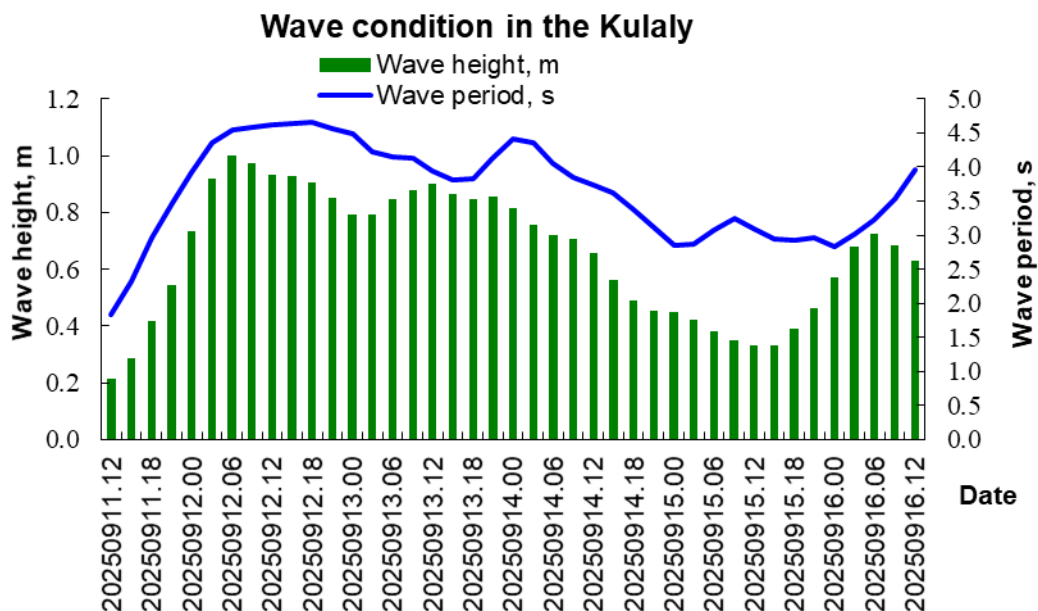
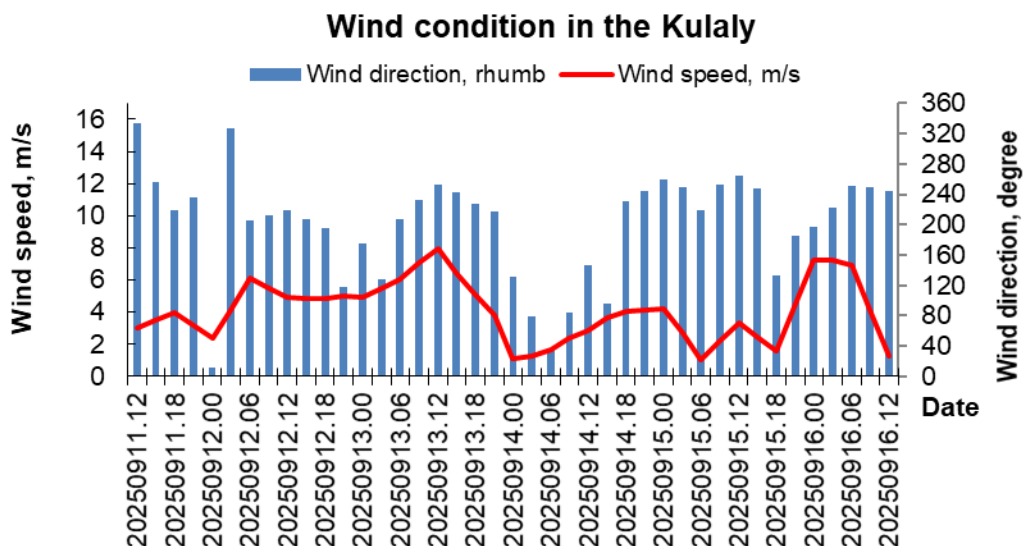




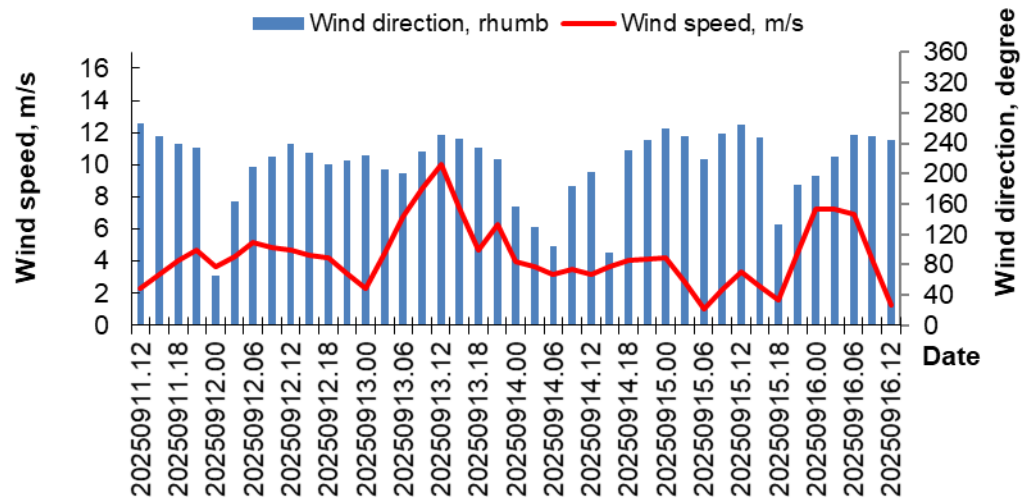
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 11 – 16, 2025.**

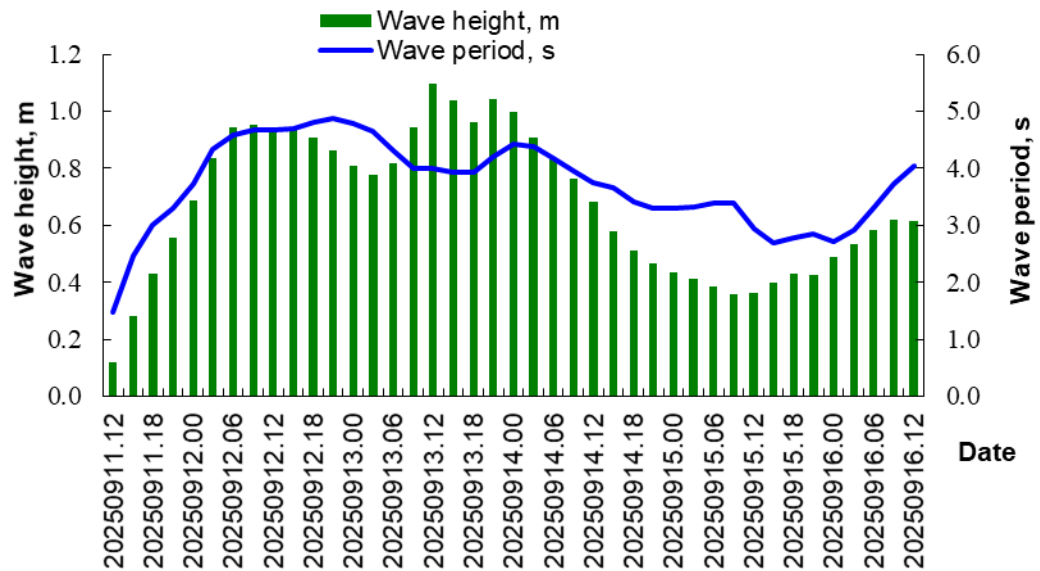


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250911.12	0.22	SE	1.8	3	NW
20250911.15	0.29	S	2.3	4	W
20250911.18	0.42	S	3.0	4	SW
20250911.21	0.54	SW	3.5	3	SW
20250912.00	0.73	SW	3.9	2	N
20250912.03	0.92	SW	4.4	4	NW
20250912.06	1.00	SW	4.5	6	SW
20250912.09	0.97	SW	4.6	5	SW
20250912.12	0.93	SW	4.6	5	SW
20250912.15	0.93	SW	4.6	5	SW
20250912.18	0.91	SW	4.7	5	S
20250912.21	0.85	SW	4.6	5	SE
20250913.00	0.79	SW	4.5	5	S
20250913.03	0.79	SW	4.2	5	SE
20250913.06	0.85	SW	4.2	6	SW
20250913.09	0.88	SW	4.1	7	SW
20250913.12	0.90	SW	3.9	8	W
20250913.15	0.87	SW	3.8	6	SW
20250913.18	0.85	SW	3.8	5	SW
20250913.21	0.86	SW	4.1	4	SW
20250914.00	0.82	SW	4.4	1	SE
20250914.03	0.76	SW	4.4	1	E
20250914.06	0.72	SW	4.1	2	NE
20250914.09	0.71	SW	3.8	2	E
20250914.12	0.66	SW	3.7	3	SE
20250914.15	0.56	SW	3.6	4	E
20250914.18	0.49	SW	3.4	4	SW
20250914.21	0.46	SW	3.1	4	SW
20250915.00	0.45	SW	2.9	4	W
20250915.03	0.42	SW	2.9	3	W
20250915.06	0.38	SW	3.1	1	SW
20250915.09	0.35	SW	3.3	2	W
20250915.12	0.33	SW	3.1	3	W
20250915.15	0.33	SW	2.9	2	SW
20250915.18	0.39	SW	2.9	2	SE
20250915.21	0.46	SW	3.0	5	S
20250916.00	0.57	SW	2.8	7	S
20250916.03	0.68	SW	3.0	7	SW
20250916.06	0.72	SW	3.2	7	W
20250916.09	0.68	SW	3.5	4	W
20250916.12	0.63	SW	4.0	1	SW

Wind condition in the Fort-Shevchenko

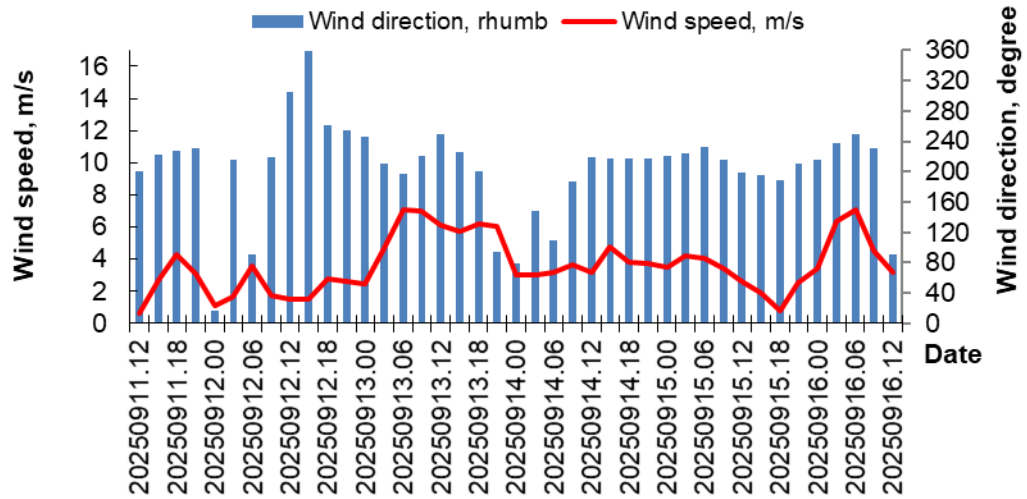


Wave condition in the Fort-Shevchenko

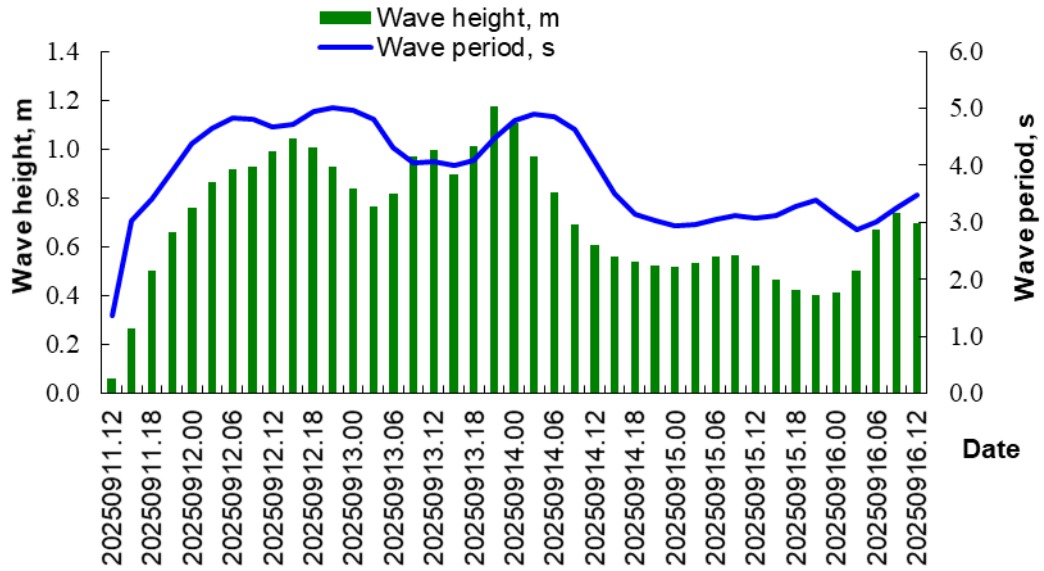


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250911.12	0.12	S	1.5	2	W
20250911.15	0.28	S	2.5	3	W
20250911.18	0.43	S	3.0	4	SW
20250911.21	0.56	S	3.3	5	SW
20250912.00	0.69	SW	3.7	4	NE
20250912.03	0.84	SW	4.3	4	S
20250912.06	0.94	SW	4.6	5	SW
20250912.09	0.95	SW	4.7	5	SW
20250912.12	0.94	SW	4.7	5	SW
20250912.15	0.94	SW	4.7	4	SW
20250912.18	0.91	SW	4.8	4	SW
20250912.21	0.86	SW	4.9	3	SW
20250913.00	0.81	SW	4.8	2	SW
20250913.03	0.78	SW	4.7	5	SW
20250913.06	0.82	SW	4.3	7	S
20250913.09	0.94	SW	4.0	9	SW
20250913.12	1.10	SW	4.0	10	W
20250913.15	1.04	SW	3.9	7	SW
20250913.18	0.96	SW	3.9	5	SW
20250913.21	1.04	SW	4.2	6	SW
20250914.00	1.00	SW	4.4	4	SE
20250914.03	0.91	SW	4.4	4	SE
20250914.06	0.83	SW	4.2	3	E
20250914.09	0.77	SW	3.9	3	S
20250914.12	0.68	SW	3.8	3	S
20250914.15	0.58	SW	3.7	4	E
20250914.18	0.51	SW	3.4	4	SW
20250914.21	0.46	SW	3.3	4	SW
20250915.00	0.44	SW	3.3	4	W
20250915.03	0.41	SW	3.3	3	W
20250915.06	0.38	SW	3.4	1	SW
20250915.09	0.36	SW	3.4	2	W
20250915.12	0.36	SW	2.9	3	W
20250915.15	0.40	SW	2.7	2	SW
20250915.18	0.43	SW	2.8	2	SE
20250915.21	0.43	SW	2.9	5	S
20250916.00	0.49	SW	2.7	7	S
20250916.03	0.53	SW	2.9	7	SW
20250916.06	0.58	SW	3.3	7	W
20250916.09	0.62	SW	3.7	4	W
20250916.12	0.61	SW	4.0	1	SW

Wind condition in the Aktau

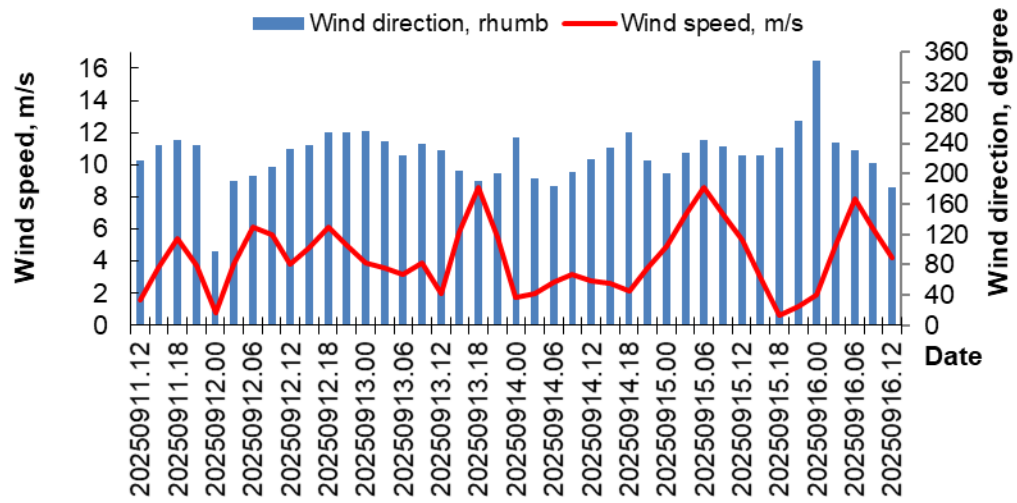


Wave condition in the Aktau

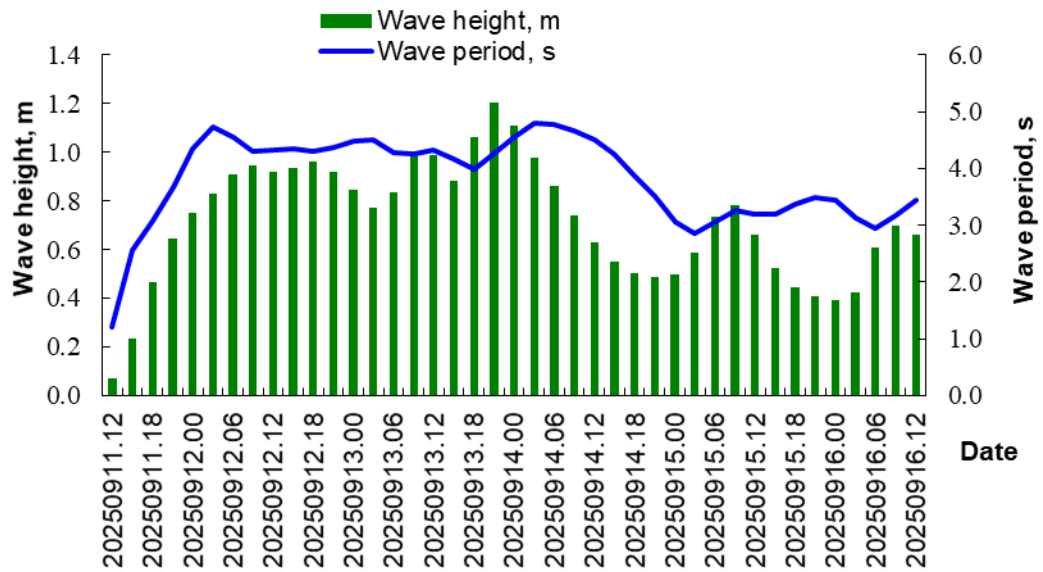


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250911.12	0.06	SW	1.4	1	S
20250911.15	0.26	SW	3.0	3	SW
20250911.18	0.50	S	3.4	4	SW
20250911.21	0.66	S	3.9	3	SW
20250912.00	0.76	S	4.4	1	N
20250912.03	0.86	S	4.6	2	SW
20250912.06	0.91	S	4.8	4	E
20250912.09	0.93	SW	4.8	2	SW
20250912.12	0.99	SW	4.7	2	NW
20250912.15	1.04	SW	4.7	2	N
20250912.18	1.00	SW	4.9	3	W
20250912.21	0.93	SW	5.0	3	W
20250913.00	0.84	SW	5.0	2	SW
20250913.03	0.77	SW	4.8	5	SW
20250913.06	0.82	SW	4.3	7	S
20250913.09	0.97	SW	4.0	7	SW
20250913.12	0.99	SW	4.1	6	W
20250913.15	0.90	SW	4.0	6	SW
20250913.18	1.01	SW	4.1	6	S
20250913.21	1.18	SW	4.5	6	E
20250914.00	1.10	SW	4.8	3	E
20250914.03	0.97	SW	4.9	3	SE
20250914.06	0.82	SW	4.8	3	E
20250914.09	0.69	SW	4.6	4	S
20250914.12	0.61	SW	4.1	3	SW
20250914.15	0.56	SW	3.5	5	SW
20250914.18	0.54	SW	3.2	4	SW
20250914.21	0.52	SW	3.0	4	SW
20250915.00	0.52	SW	2.9	3	SW
20250915.03	0.53	SW	3.0	4	SW
20250915.06	0.56	SW	3.1	4	SW
20250915.09	0.56	SW	3.1	3	SW
20250915.12	0.52	SW	3.1	3	S
20250915.15	0.47	SW	3.1	2	S
20250915.18	0.42	SW	3.3	1	S
20250915.21	0.40	SW	3.4	3	SW
20250916.00	0.41	SW	3.1	3	SW
20250916.03	0.50	SW	2.9	6	SW
20250916.06	0.67	SW	3.0	7	W
20250916.09	0.74	SW	3.3	5	SW
20250916.12	0.70	SW	3.5	3	E

Wind condition in the Peschanyi

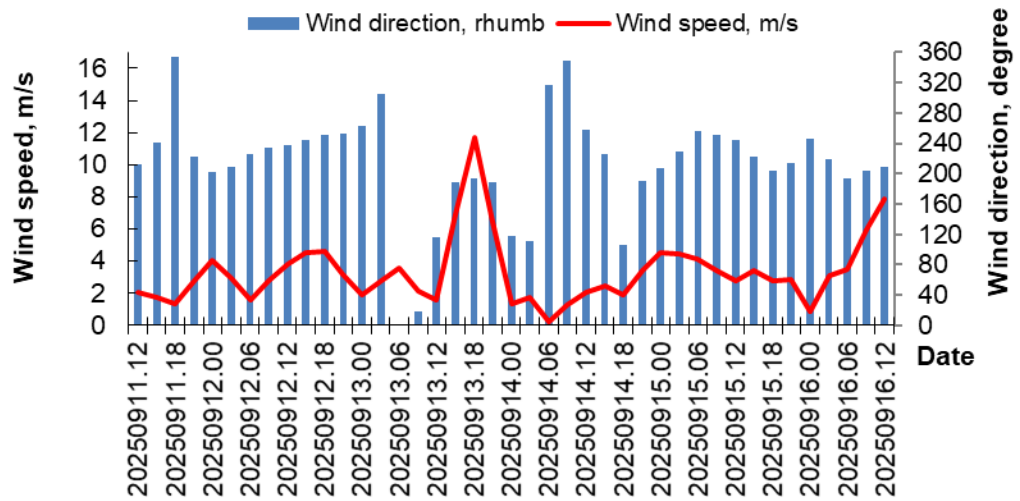


Wave condition in the Peschanyi

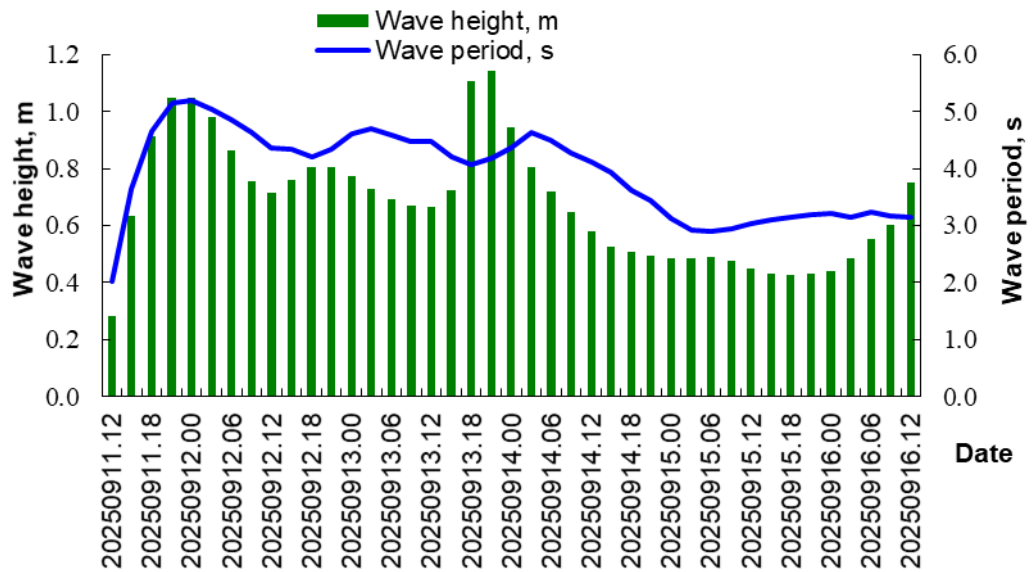


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250911.12	0.07	SW	1.2	2	SW
20250911.15	0.24	S	2.6	4	SW
20250911.18	0.47	S	3.1	5	SW
20250911.21	0.65	S	3.7	4	SW
20250912.00	0.75	S	4.3	1	E
20250912.03	0.83	S	4.7	4	S
20250912.06	0.91	S	4.6	6	S
20250912.09	0.95	SW	4.3	6	SW
20250912.12	0.92	SW	4.3	4	SW
20250912.15	0.93	SW	4.4	5	SW
20250912.18	0.96	SW	4.3	6	W
20250912.21	0.92	SW	4.4	5	W
20250913.00	0.84	SW	4.5	4	W
20250913.03	0.77	SW	4.5	4	SW
20250913.06	0.84	SW	4.3	3	SW
20250913.09	0.99	SW	4.3	4	SW
20250913.12	0.99	SW	4.3	2	SW
20250913.15	0.88	SW	4.2	6	SW
20250913.18	1.06	SW	4.0	9	S
20250913.21	1.21	SW	4.3	5	S
20250914.00	1.11	SW	4.5	2	SW
20250914.03	0.98	SW	4.8	2	S
20250914.06	0.86	SW	4.8	3	S
20250914.09	0.74	SW	4.7	3	SW
20250914.12	0.63	SW	4.5	3	SW
20250914.15	0.55	SW	4.3	3	SW
20250914.18	0.51	SW	3.9	2	W
20250914.21	0.49	SW	3.5	4	SW
20250915.00	0.50	SW	3.1	5	S
20250915.03	0.59	SW	2.8	7	SW
20250915.06	0.73	SW	3.1	9	SW
20250915.09	0.78	SW	3.3	7	SW
20250915.12	0.66	SW	3.2	5	SW
20250915.15	0.52	SW	3.2	3	SW
20250915.18	0.44	SW	3.4	1	SW
20250915.21	0.41	SW	3.5	1	W
20250916.00	0.39	SW	3.4	2	N
20250916.03	0.42	SW	3.1	5	SW
20250916.06	0.61	SW	2.9	8	SW
20250916.09	0.70	SW	3.2	6	SW
20250916.12	0.66	SW	3.4	4	S

Wind condition in the Fetisovo

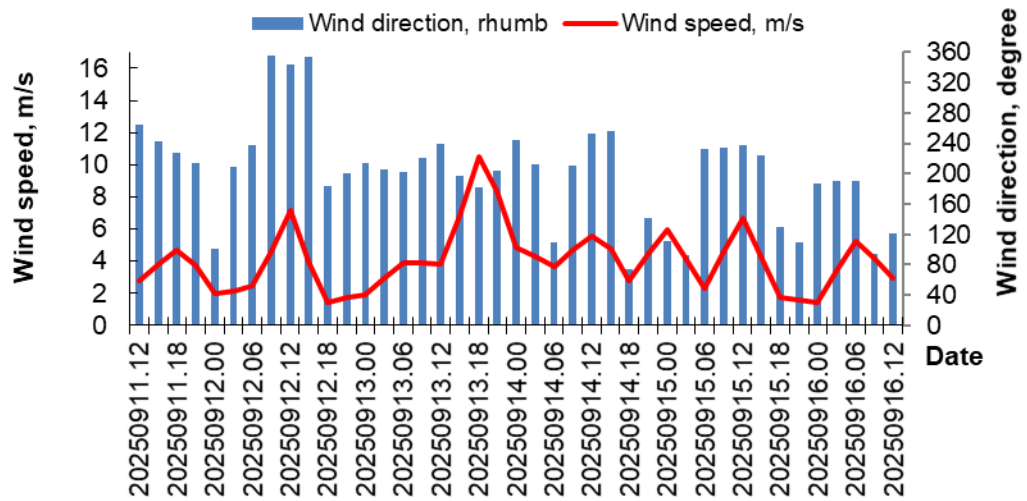


Wave condition in the Fetisovo

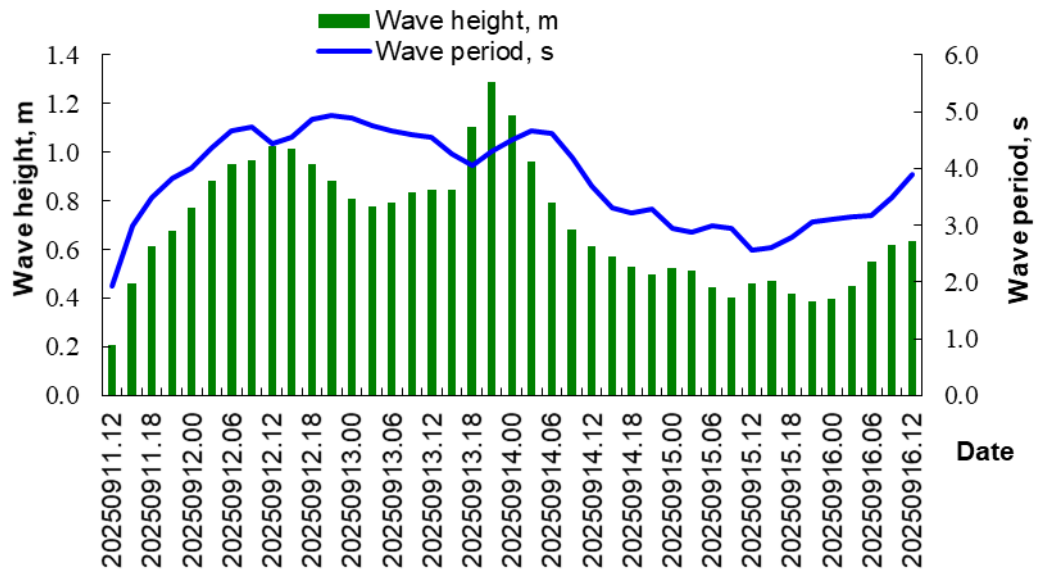


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250911.12	0.28	SW	2.0	2	SW
20250911.15	0.63	S	3.6	2	SW
20250911.18	0.91	S	4.7	1	N
20250911.21	1.05	S	5.1	3	SW
20250912.00	1.05	S	5.2	4	S
20250912.03	0.98	S	5.0	3	SW
20250912.06	0.86	S	4.8	2	SW
20250912.09	0.75	S	4.6	3	SW
20250912.12	0.72	SW	4.4	4	SW
20250912.15	0.76	SW	4.3	5	SW
20250912.18	0.81	SW	4.2	5	W
20250912.21	0.81	SW	4.3	3	W
20250913.00	0.77	SW	4.6	2	W
20250913.03	0.73	SW	4.7	3	NW
20250913.06	0.69	SW	4.6	4	N
20250913.09	0.67	W	4.5	2	N
20250913.12	0.67	W	4.5	2	SE
20250913.15	0.72	SW	4.2	7	S
20250913.18	1.11	W	4.1	12	S
20250913.21	1.14	W	4.2	6	S
20250914.00	0.94	W	4.4	1	SE
20250914.03	0.80	W	4.6	2	E
20250914.06	0.72	W	4.5	0	NW
20250914.09	0.65	W	4.3	1	N
20250914.12	0.58	W	4.1	2	W
20250914.15	0.53	W	3.9	2	SW
20250914.18	0.51	W	3.6	2	E
20250914.21	0.49	SW	3.4	3	S
20250915.00	0.48	SW	3.1	5	SW
20250915.03	0.49	SW	2.9	4	SW
20250915.06	0.49	SW	2.9	4	W
20250915.09	0.47	SW	2.9	3	W
20250915.12	0.45	SW	3.0	3	SW
20250915.15	0.43	SW	3.1	3	SW
20250915.18	0.42	SW	3.2	3	SW
20250915.21	0.43	SW	3.2	3	SW
20250916.00	0.44	SW	3.2	1	SW
20250916.03	0.48	SW	3.1	3	SW
20250916.06	0.55	SW	3.2	4	S
20250916.09	0.60	SW	3.2	6	SW
20250916.12	0.75	SW	3.2	8	SW

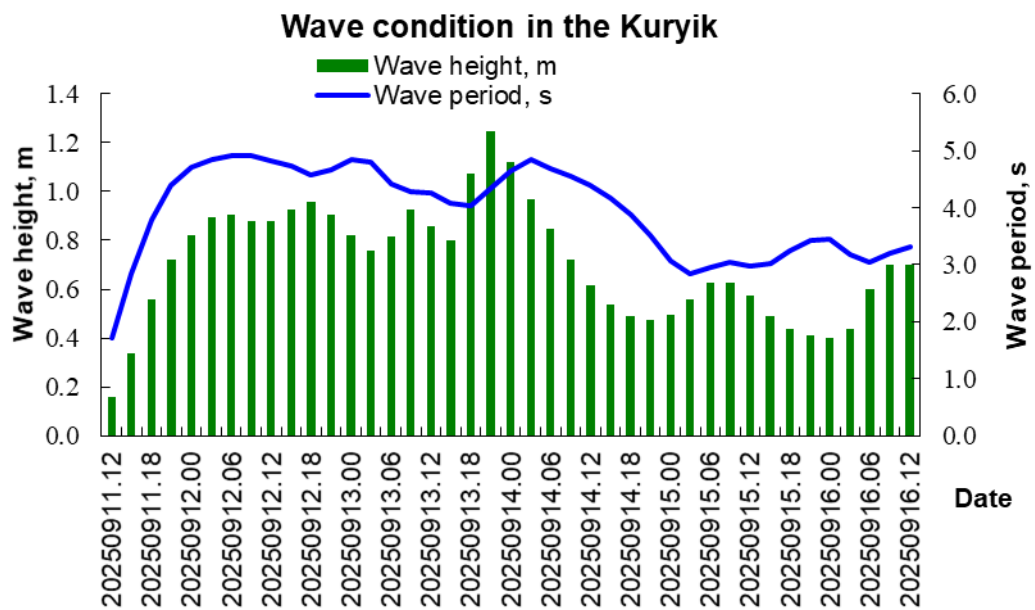
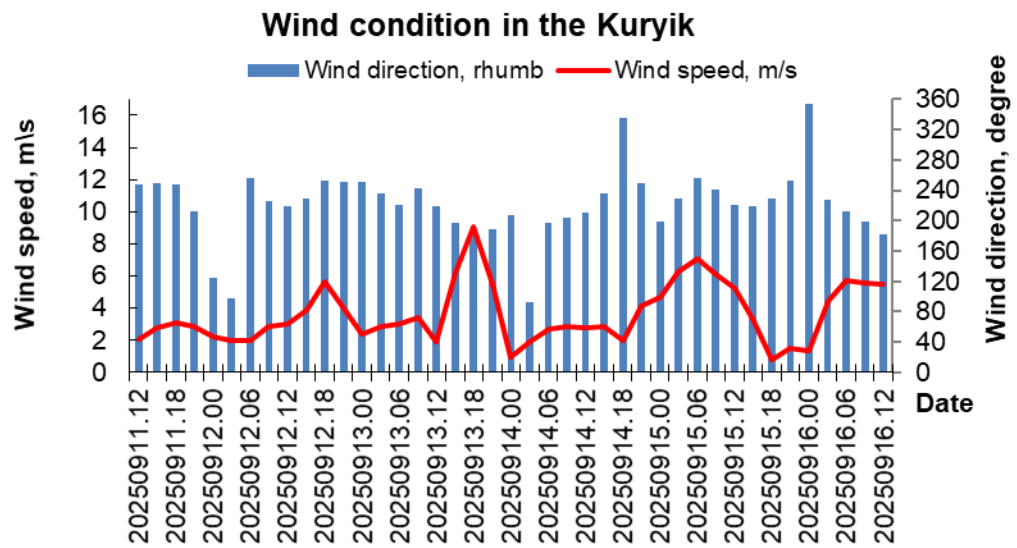
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250911.12	0.21	S	1.9	3	W
20250911.15	0.46	S	3.0	4	SW
20250911.18	0.61	S	3.5	5	SW
20250911.21	0.68	S	3.8	4	SW
20250912.00	0.77	SW	4.0	2	E
20250912.03	0.89	SW	4.4	2	SW
20250912.06	0.95	SW	4.7	2	SW
20250912.09	0.97	SW	4.7	5	N
20250912.12	1.03	SW	4.4	7	N
20250912.15	1.01	SW	4.5	4	N
20250912.18	0.95	SW	4.9	1	S
20250912.21	0.88	SW	4.9	2	S
20250913.00	0.81	SW	4.9	2	SW
20250913.03	0.77	SW	4.8	3	SW
20250913.06	0.79	SW	4.7	4	SW
20250913.09	0.84	SW	4.6	4	SW
20250913.12	0.84	SW	4.6	4	SW
20250913.15	0.85	SW	4.3	7	S
20250913.18	1.10	SW	4.0	10	S
20250913.21	1.29	SW	4.3	8	SW
20250914.00	1.15	SW	4.5	5	SW
20250914.03	0.96	SW	4.7	4	SW
20250914.06	0.79	SW	4.6	4	E
20250914.09	0.68	SW	4.2	5	SW
20250914.12	0.61	SW	3.7	6	W
20250914.15	0.57	SW	3.3	5	W
20250914.18	0.53	SW	3.2	3	E
20250914.21	0.50	SW	3.3	4	SE
20250915.00	0.52	W	2.9	6	E
20250915.03	0.51	W	2.9	4	E
20250915.06	0.44	W	3.0	2	SW
20250915.09	0.40	SW	2.9	5	SW
20250915.12	0.46	SW	2.6	7	SW
20250915.15	0.47	SW	2.6	4	SW
20250915.18	0.42	SW	2.8	2	SE
20250915.21	0.39	SW	3.1	2	E
20250916.00	0.40	SW	3.1	1	S
20250916.03	0.45	SW	3.1	3	S
20250916.06	0.55	SW	3.2	5	S
20250916.09	0.62	SW	3.5	4	E
20250916.12	0.63	SW	3.9	3	SE



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250911.12	0.16	SW	1.7	2	SW
20250911.15	0.34	S	2.8	3	W
20250911.18	0.56	S	3.8	3	SW
20250911.21	0.72	S	4.4	3	SW
20250912.00	0.82	S	4.7	2	SE
20250912.03	0.89	S	4.9	2	E
20250912.06	0.90	S	4.9	2	W
20250912.09	0.88	S	4.9	3	SW
20250912.12	0.88	SW	4.8	3	SW
20250912.15	0.92	SW	4.7	4	SW
20250912.18	0.96	SW	4.6	6	W
20250912.21	0.91	SW	4.7	4	W
20250913.00	0.82	SW	4.8	2	W
20250913.03	0.76	SW	4.8	3	SW
20250913.06	0.82	SW	4.4	3	SW
20250913.09	0.92	SW	4.3	3	SW
20250913.12	0.86	SW	4.3	2	SW
20250913.15	0.80	SW	4.1	6	S
20250913.18	1.07	W	4.0	9	S
20250913.21	1.25	W	4.4	6	S
20250914.00	1.12	SW	4.6	1	SW
20250914.03	0.97	W	4.8	2	E
20250914.06	0.84	W	4.7	3	S
20250914.09	0.72	W	4.6	3	SW
20250914.12	0.62	W	4.4	3	SW
20250914.15	0.54	W	4.2	3	SW
20250914.18	0.49	W	3.9	2	NW
20250914.21	0.48	SW	3.5	4	W
20250915.00	0.49	SW	3.1	5	S
20250915.03	0.56	SW	2.8	6	SW
20250915.06	0.63	SW	2.9	7	W
20250915.09	0.63	SW	3.1	6	SW
20250915.12	0.58	SW	3.0	5	SW
20250915.15	0.49	SW	3.0	3	SW
20250915.18	0.44	SW	3.3	1	SW
20250915.21	0.41	SW	3.4	2	W
20250916.00	0.40	SW	3.4	1	N
20250916.03	0.44	SW	3.2	4	SW
20250916.06	0.60	SW	3.0	6	SW
20250916.09	0.70	SW	3.2	6	S
20250916.12	0.70	SW	3.3	5	S

**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: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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