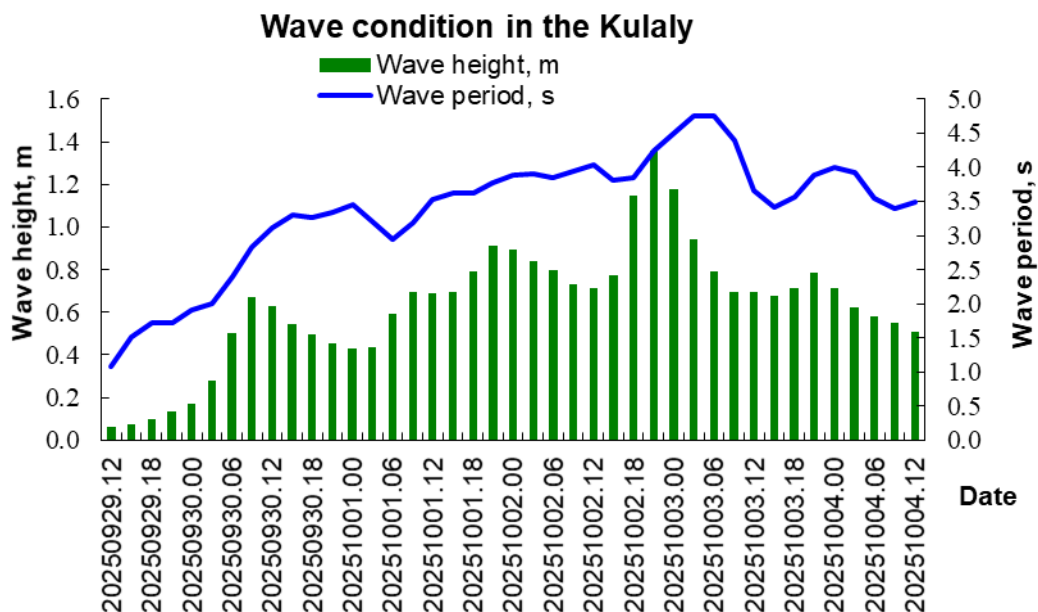
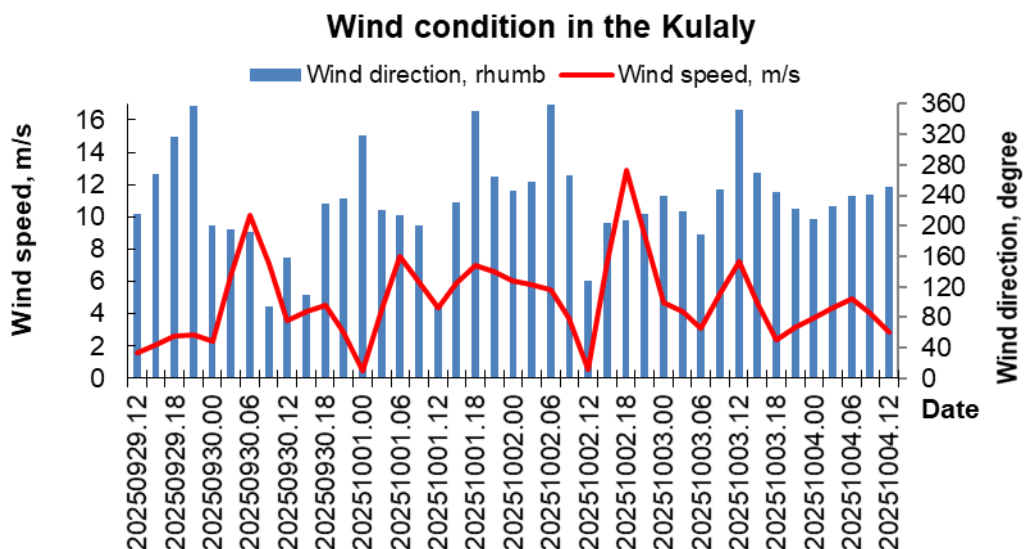




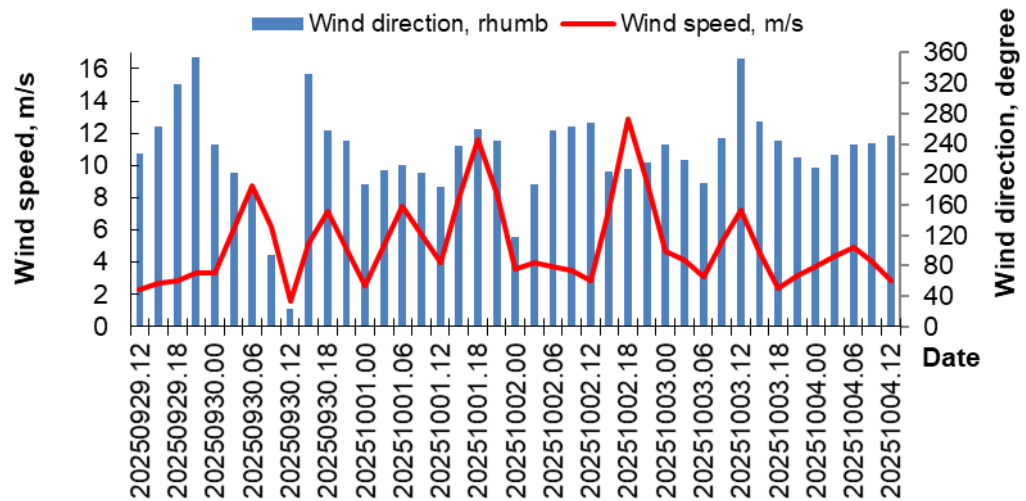
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**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 29 – October 04, 2025.**

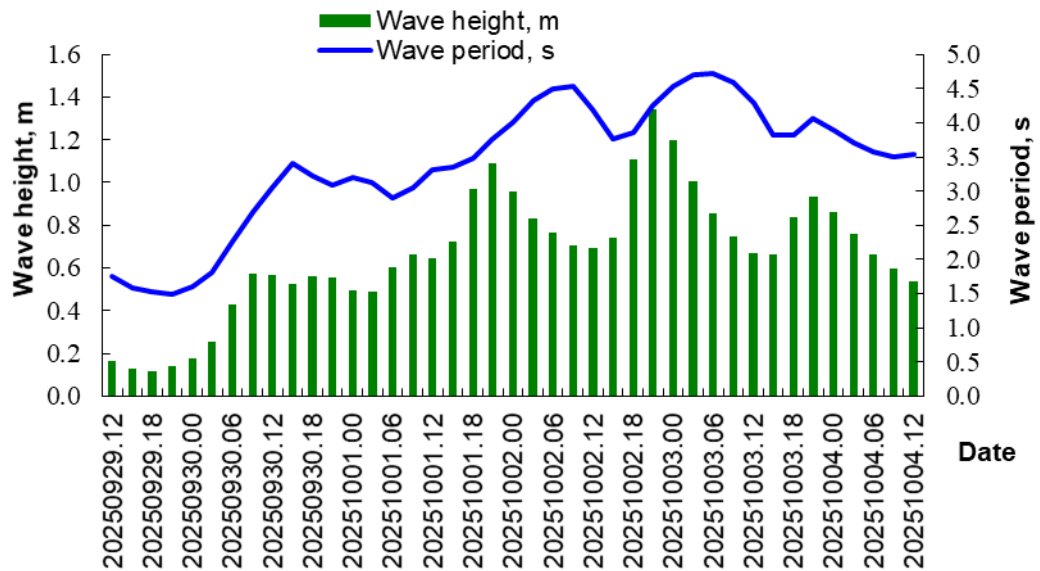


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250929.12	0.06	SW	1.1	2	SW
20250929.15	0.07	W	1.5	2	W
20250929.18	0.10	W	1.7	3	NW
20250929.21	0.13	W	1.7	3	N
20250930.00	0.17	SW	1.9	2	S
20250930.03	0.28	SW	2.0	6	S
20250930.06	0.50	W	2.4	10	S
20250930.09	0.67	W	2.8	7	E
20250930.12	0.63	W	3.1	4	S
20250930.15	0.54	W	3.3	4	E
20250930.18	0.50	W	3.3	5	SW
20250930.21	0.46	SW	3.3	3	SW
20251001.00	0.43	SW	3.4	1	NW
20251001.03	0.43	SW	3.2	4	SW
20251001.06	0.60	SW	3.0	8	SW
20251001.09	0.70	SW	3.2	6	S
20251001.12	0.69	SW	3.5	4	E
20251001.15	0.69	SW	3.6	6	SW
20251001.18	0.79	SW	3.6	7	N
20251001.21	0.91	SW	3.8	7	W
20251002.00	0.89	SW	3.9	6	SW
20251002.03	0.84	SW	3.9	6	W
20251002.06	0.80	SW	3.9	6	N
20251002.09	0.73	SW	4.0	4	W
20251002.12	0.72	SW	4.0	1	SE
20251002.15	0.77	SW	3.8	7	SW
20251002.18	1.15	SW	3.8	13	SW
20251002.21	1.36	SW	4.2	9	SW
20251003.00	1.18	SW	4.5	5	SW
20251003.03	0.94	SW	4.7	4	SW
20251003.06	0.79	SW	4.8	3	S
20251003.09	0.70	SW	4.4	5	SW
20251003.12	0.70	SW	3.7	7	N
20251003.15	0.68	SW	3.4	5	W
20251003.18	0.72	SW	3.6	2	SW
20251003.21	0.78	SW	3.9	3	SW
20251004.00	0.71	SW	4.0	4	SW
20251004.03	0.63	SW	3.9	4	SW
20251004.06	0.58	SW	3.6	5	SW
20251004.09	0.55	SW	3.4	4	SW
20251004.12	0.51	SW	3.5	3	W

Wind condition in the Fort-Shevchenko

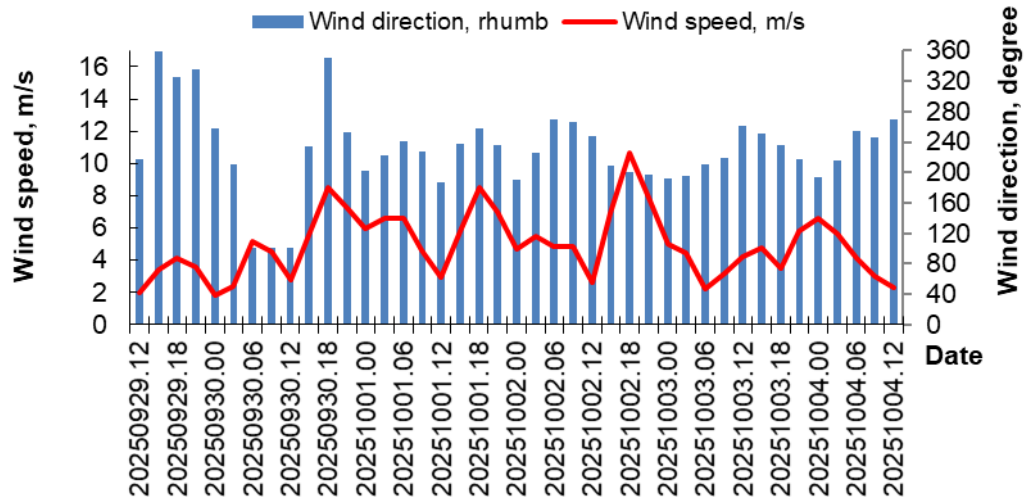


Wave condition in the Fort-Shevchenko

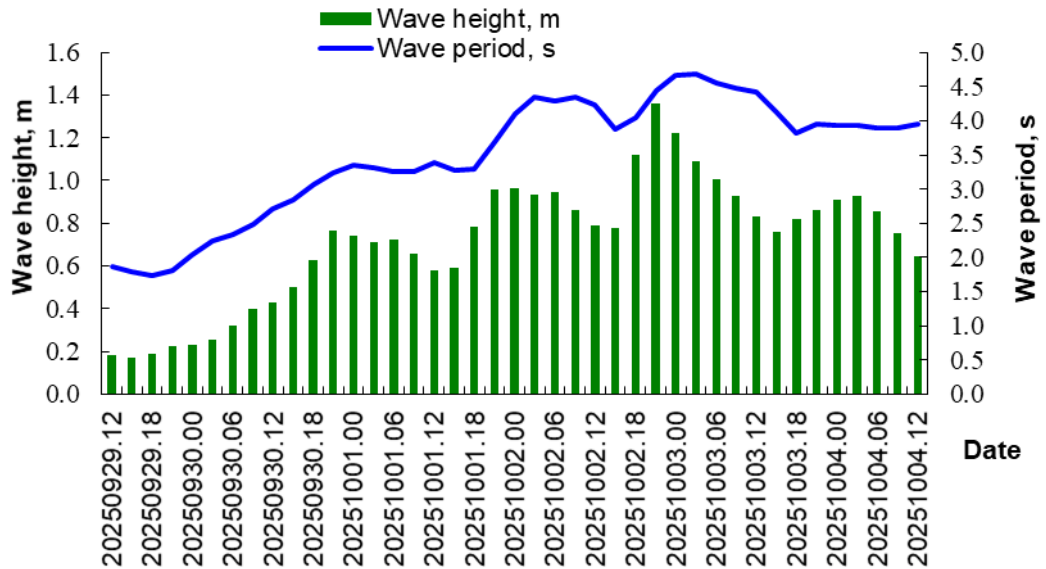


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250929.12	0.17	SW	1.8	2	SW
20250929.15	0.13	SW	1.6	3	W
20250929.18	0.12	SW	1.5	3	NW
20250929.21	0.14	S	1.5	3	N
20250930.00	0.18	S	1.6	3	SW
20250930.03	0.26	SW	1.8	6	S
20250930.06	0.43	SW	2.3	9	S
20250930.09	0.57	W	2.7	6	E
20250930.12	0.57	W	3.1	2	NE
20250930.15	0.53	W	3.4	5	NW
20250930.18	0.56	SW	3.2	7	W
20250930.21	0.56	SW	3.1	5	SW
20251001.00	0.50	SW	3.2	3	S
20251001.03	0.49	SW	3.1	5	SW
20251001.06	0.60	SW	2.9	8	SW
20251001.09	0.66	SW	3.1	6	S
20251001.12	0.64	SW	3.3	4	S
20251001.15	0.72	SW	3.3	8	SW
20251001.18	0.97	SW	3.5	12	W
20251001.21	1.09	SW	3.8	8	SW
20251002.00	0.96	SW	4.0	4	SE
20251002.03	0.83	SW	4.3	4	S
20251002.06	0.77	SW	4.5	4	W
20251002.09	0.71	SW	4.5	4	W
20251002.12	0.69	SW	4.2	3	W
20251002.15	0.74	SW	3.8	7	SW
20251002.18	1.11	SW	3.9	13	SW
20251002.21	1.34	SW	4.3	9	SW
20251003.00	1.20	SW	4.5	5	SW
20251003.03	1.01	SW	4.7	4	SW
20251003.06	0.86	SW	4.7	3	S
20251003.09	0.75	SW	4.6	5	SW
20251003.12	0.67	SW	4.3	7	N
20251003.15	0.67	SW	3.8	5	W
20251003.18	0.84	SW	3.8	2	SW
20251003.21	0.93	SW	4.1	3	SW
20251004.00	0.86	SW	3.9	4	SW
20251004.03	0.76	SW	3.7	4	SW
20251004.06	0.67	SW	3.6	5	SW
20251004.09	0.59	SW	3.5	4	SW
20251004.12	0.53	SW	3.5	3	W

Wind condition in the Aktau

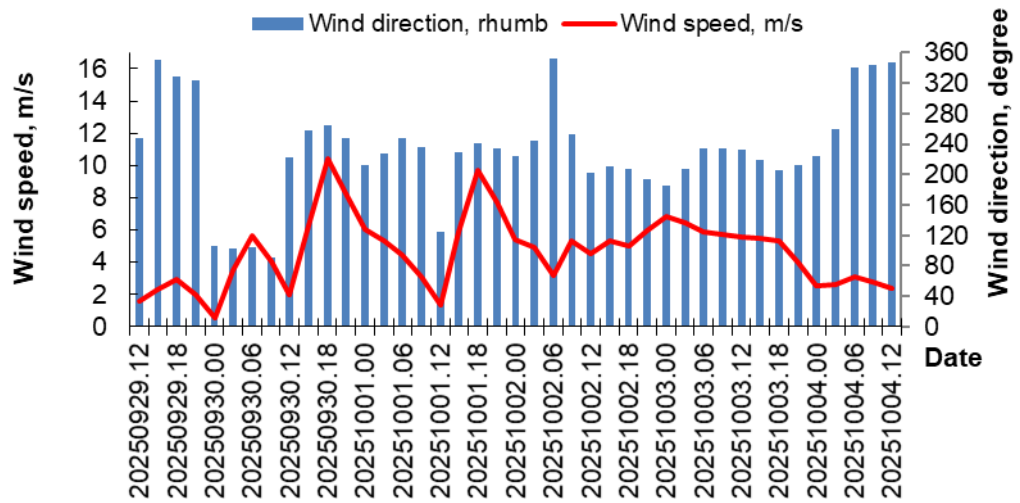


Wave condition in the Aktau

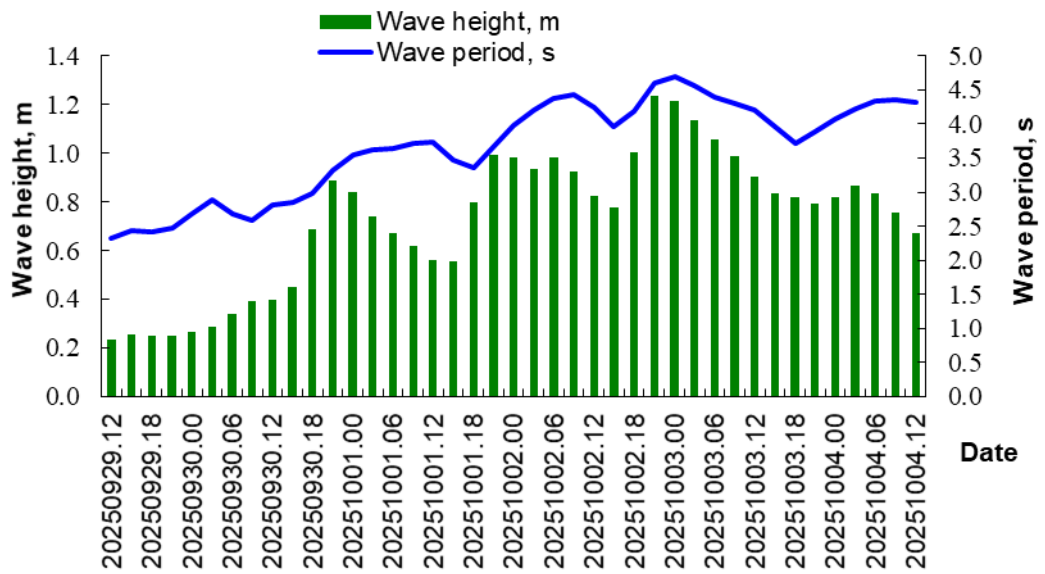


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20250929.12	0.18	SW	1.9	2	SW
20250929.15	0.17	SW	1.8	3	N
20250929.18	0.19	S	1.7	4	NW
20250929.21	0.22	S	1.8	4	NW
20250930.00	0.23	S	2.0	2	W
20250930.03	0.26	S	2.2	2	SW
20250930.06	0.32	S	2.3	5	E
20250930.09	0.40	SW	2.5	5	E
20250930.12	0.43	SW	2.7	3	E
20250930.15	0.50	SW	2.9	6	SW
20250930.18	0.63	SW	3.1	9	N
20250930.21	0.76	S	3.2	7	W
20251001.00	0.74	S	3.3	6	S
20251001.03	0.71	SW	3.3	7	SW
20251001.06	0.72	SW	3.3	7	SW
20251001.09	0.66	SW	3.3	5	SW
20251001.12	0.58	SW	3.4	3	S
20251001.15	0.59	SW	3.3	6	SW
20251001.18	0.78	SW	3.3	8	W
20251001.21	0.96	SW	3.7	7	SW
20251002.00	0.96	SW	4.1	5	S
20251002.03	0.93	SW	4.3	6	SW
20251002.06	0.94	SW	4.3	5	W
20251002.09	0.86	SW	4.3	5	W
20251002.12	0.79	SW	4.2	3	SW
20251002.15	0.78	SW	3.9	7	SW
20251002.18	1.12	SW	4.0	11	S
20251002.21	1.36	SW	4.4	8	S
20251003.00	1.22	SW	4.7	5	S
20251003.03	1.09	SW	4.7	4	S
20251003.06	1.01	SW	4.6	2	SW
20251003.09	0.93	SW	4.5	3	SW
20251003.12	0.83	SW	4.4	4	W
20251003.15	0.76	SW	4.1	5	W
20251003.18	0.82	SW	3.8	4	SW
20251003.21	0.86	SW	4.0	6	SW
20251004.00	0.91	SW	3.9	7	S
20251004.03	0.93	SW	3.9	6	SW
20251004.06	0.85	SW	3.9	4	W
20251004.09	0.75	SW	3.9	3	SW
20251004.12	0.64	SW	4.0	2	W

Wind condition in the Peschanyi

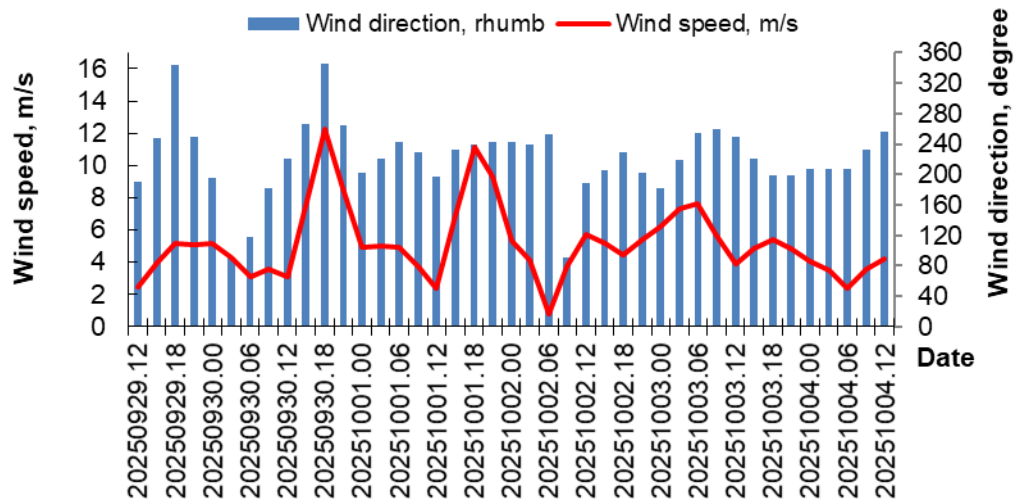


Wave condition in the Peschanyi

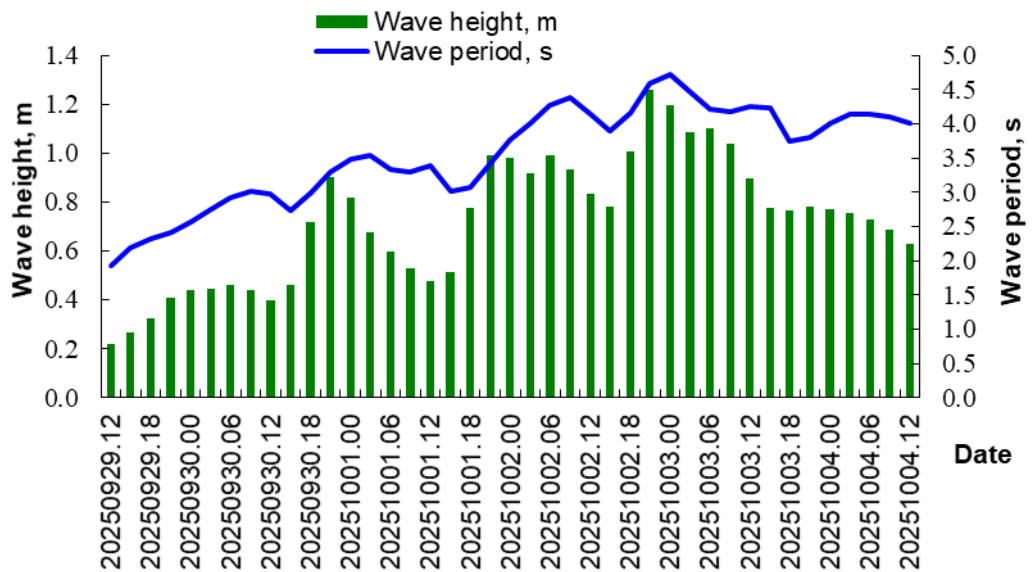


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250929.12	0.23	SW	2.3	2	W
20250929.15	0.25	SW	2.4	2	N
20250929.18	0.25	S	2.4	3	NW
20250929.21	0.25	S	2.5	2	NW
20250930.00	0.27	S	2.7	1	E
20250930.03	0.29	S	2.9	4	E
20250930.06	0.34	S	2.7	6	E
20250930.09	0.39	SW	2.6	4	E
20250930.12	0.40	SW	2.8	2	SW
20250930.15	0.45	SW	2.9	6	W
20250930.18	0.69	S	3.0	10	W
20250930.21	0.89	S	3.3	8	SW
20251001.00	0.84	S	3.5	6	SW
20251001.03	0.74	S	3.6	5	SW
20251001.06	0.67	SW	3.6	4	SW
20251001.09	0.62	SW	3.7	3	SW
20251001.12	0.56	SW	3.7	1	SE
20251001.15	0.56	SW	3.5	6	SW
20251001.18	0.80	SW	3.4	10	SW
20251001.21	0.99	SW	3.7	8	SW
20251002.00	0.98	SW	4.0	5	SW
20251002.03	0.94	SW	4.2	5	SW
20251002.06	0.99	SW	4.4	3	N
20251002.09	0.92	SW	4.4	5	W
20251002.12	0.83	SW	4.2	5	S
20251002.15	0.78	SW	4.0	5	SW
20251002.18	1.00	SW	4.2	5	SW
20251002.21	1.24	SW	4.6	6	S
20251003.00	1.21	SW	4.7	7	S
20251003.03	1.14	SW	4.6	6	SW
20251003.06	1.06	SW	4.4	6	SW
20251003.09	0.99	SW	4.3	6	SW
20251003.12	0.90	SW	4.2	6	SW
20251003.15	0.84	SW	4.0	5	SW
20251003.18	0.82	SW	3.7	5	SW
20251003.21	0.79	SW	3.9	4	SW
20251004.00	0.82	SW	4.1	3	SW
20251004.03	0.87	SW	4.2	3	W
20251004.06	0.83	SW	4.3	3	N
20251004.09	0.76	SW	4.4	3	N
20251004.12	0.67	SW	4.3	2	N

Wind condition in the Fetisovo

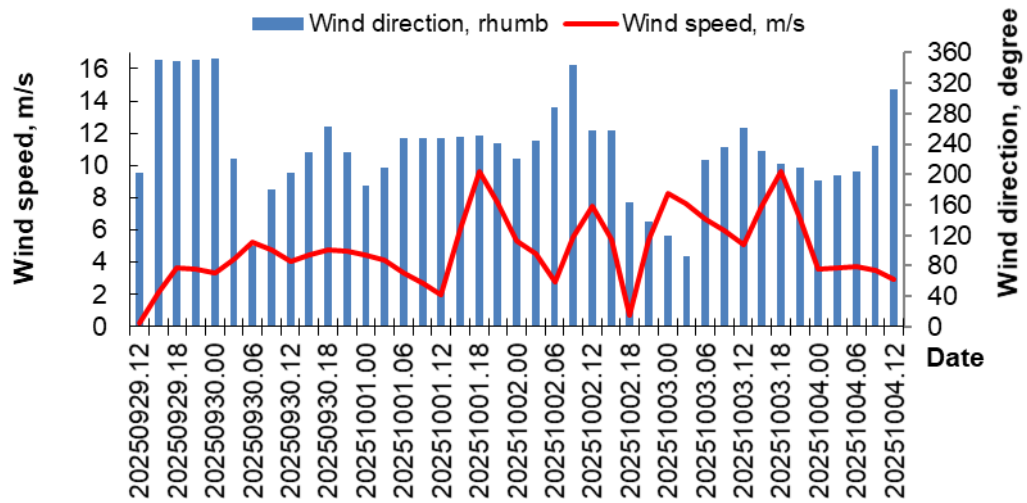


Wave condition in the Fetisovo

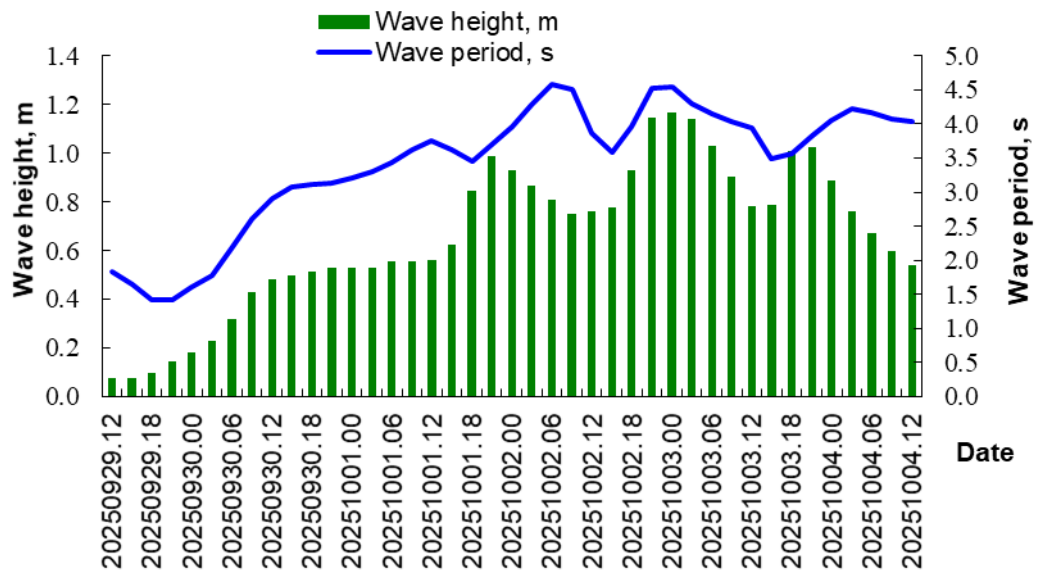


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250929.12	0.22	SW	1.9	2	S
20250929.15	0.27	SW	2.2	4	W
20250929.18	0.33	S	2.3	5	N
20250929.21	0.41	S	2.4	5	W
20250930.00	0.44	S	2.6	5	S
20250930.03	0.44	S	2.7	4	E
20250930.06	0.46	SW	2.9	3	SE
20250930.09	0.44	SW	3.0	4	S
20250930.12	0.40	SW	3.0	3	SW
20250930.15	0.46	SW	2.7	7	W
20250930.18	0.72	S	3.0	12	N
20250930.21	0.90	S	3.3	9	W
20251001.00	0.82	S	3.5	5	S
20251001.03	0.68	S	3.5	5	SW
20251001.06	0.60	SW	3.3	5	SW
20251001.09	0.53	SW	3.3	4	SW
20251001.12	0.48	SW	3.4	2	S
20251001.15	0.51	SW	3.0	7	SW
20251001.18	0.78	SW	3.1	11	SW
20251001.21	0.99	SW	3.4	9	SW
20251002.00	0.98	SW	3.8	5	SW
20251002.03	0.92	SW	4.0	4	SW
20251002.06	0.99	SW	4.3	1	W
20251002.09	0.94	SW	4.4	4	E
20251002.12	0.83	SW	4.1	6	S
20251002.15	0.78	SW	3.9	5	SW
20251002.18	1.01	SW	4.2	4	SW
20251002.21	1.26	W	4.6	5	SW
20251003.00	1.19	W	4.7	6	S
20251003.03	1.09	W	4.5	7	SW
20251003.06	1.10	SW	4.2	8	W
20251003.09	1.04	SW	4.2	6	W
20251003.12	0.90	SW	4.3	4	W
20251003.15	0.77	SW	4.2	5	SW
20251003.18	0.76	SW	3.8	5	S
20251003.21	0.78	SW	3.8	5	S
20251004.00	0.77	SW	4.0	4	SW
20251004.03	0.75	SW	4.1	3	SW
20251004.06	0.73	SW	4.1	2	SW
20251004.09	0.68	SW	4.1	4	SW
20251004.12	0.63	SW	4.0	4	W

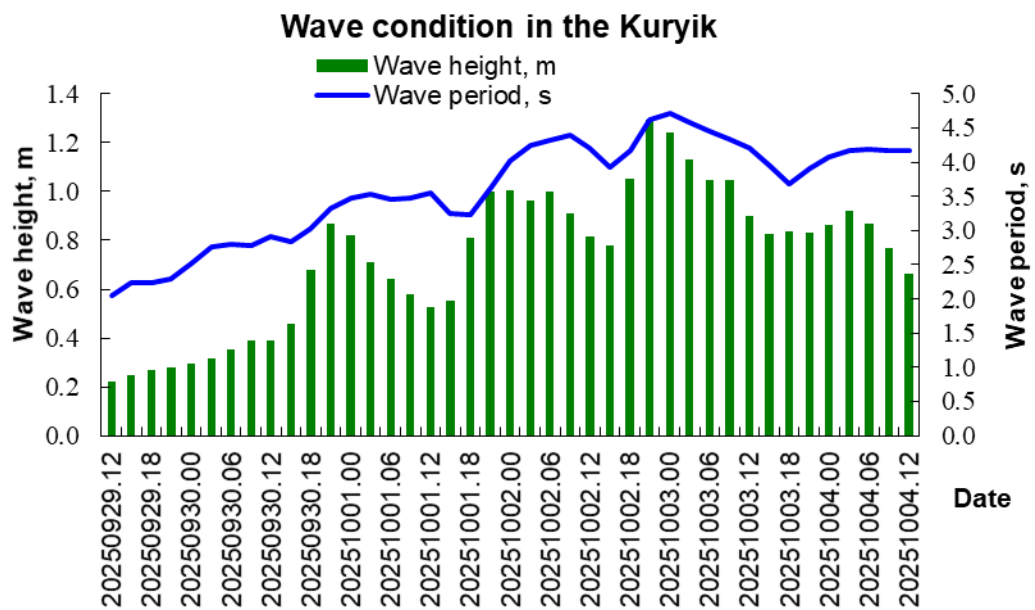
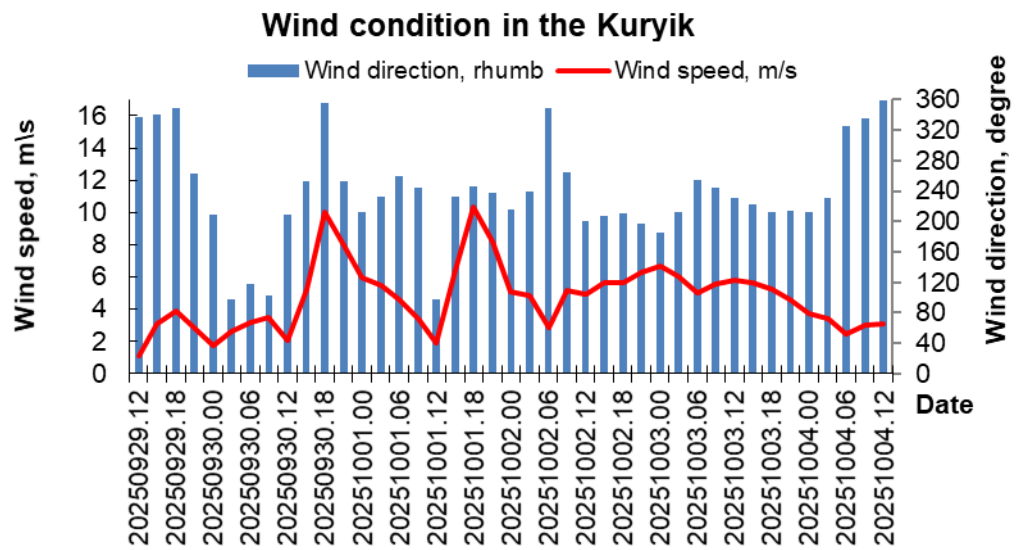
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250929.12	0.07	SW	1.8	0	SW
20250929.15	0.08	SW	1.6	2	N
20250929.18	0.10	S	1.4	4	N
20250929.21	0.14	S	1.4	4	N
20250930.00	0.18	S	1.6	3	N
20250930.03	0.23	S	1.8	4	SW
20250930.06	0.32	SW	2.2	5	E
20250930.09	0.43	W	2.6	5	S
20250930.12	0.48	W	2.9	4	SW
20250930.15	0.50	W	3.1	4	SW
20250930.18	0.51	SW	3.1	5	W
20250930.21	0.53	SW	3.1	5	SW
20251001.00	0.53	SW	3.2	4	S
20251001.03	0.53	SW	3.3	4	SW
20251001.06	0.55	SW	3.4	3	W
20251001.09	0.56	SW	3.6	3	SW
20251001.12	0.56	SW	3.7	2	SW
20251001.15	0.62	SW	3.6	6	W
20251001.18	0.85	SW	3.5	10	W
20251001.21	0.99	SW	3.7	8	SW
20251002.00	0.93	SW	4.0	5	SW
20251002.03	0.86	SW	4.3	5	SW
20251002.06	0.81	SW	4.6	3	W
20251002.09	0.75	SW	4.5	6	N
20251002.12	0.76	SW	3.9	7	W
20251002.15	0.78	SW	3.6	5	W
20251002.18	0.93	SW	4.0	1	S
20251002.21	1.15	SW	4.5	5	SE
20251003.00	1.16	SW	4.5	8	SE
20251003.03	1.14	SW	4.3	8	E
20251003.06	1.03	SW	4.1	7	SW
20251003.09	0.90	SW	4.0	6	SW
20251003.12	0.78	SW	3.9	5	W
20251003.15	0.79	SW	3.5	7	SW
20251003.18	1.01	SW	3.6	10	SW
20251003.21	1.03	SW	3.8	7	SW
20251004.00	0.89	SW	4.1	4	S
20251004.03	0.76	SW	4.2	4	S
20251004.06	0.67	SW	4.2	4	SW
20251004.09	0.60	SW	4.1	3	SW
20251004.12	0.54	SW	4.0	3	NW



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20250929.12	0.22	SW	2.1	1	NW
20250929.15	0.25	SW	2.2	3	N
20250929.18	0.27	S	2.2	4	N
20250929.21	0.28	S	2.3	3	W
20250930.00	0.29	S	2.5	2	SW
20250930.03	0.32	S	2.8	3	E
20250930.06	0.35	S	2.8	3	SE
20250930.09	0.39	S	2.8	3	E
20250930.12	0.39	SW	2.9	2	SW
20250930.15	0.46	SW	2.8	5	W
20250930.18	0.68	S	3.0	10	N
20250930.21	0.87	S	3.3	8	W
20251001.00	0.82	S	3.5	6	SW
20251001.03	0.71	S	3.5	5	SW
20251001.06	0.64	S	3.5	5	W
20251001.09	0.58	SW	3.5	3	SW
20251001.12	0.53	SW	3.6	2	E
20251001.15	0.55	SW	3.2	6	SW
20251001.18	0.81	SW	3.2	10	SW
20251001.21	1.00	SW	3.6	8	SW
20251002.00	1.01	SW	4.0	5	SW
20251002.03	0.96	SW	4.2	5	SW
20251002.06	1.00	SW	4.3	3	N
20251002.09	0.91	SW	4.4	5	W
20251002.12	0.82	SW	4.2	5	S
20251002.15	0.78	SW	3.9	6	SW
20251002.18	1.05	SW	4.2	6	SW
20251002.21	1.29	SW	4.6	6	S
20251003.00	1.24	SW	4.7	7	S
20251003.03	1.13	SW	4.6	6	SW
20251003.06	1.05	SW	4.4	5	W
20251003.09	1.05	SW	4.3	6	SW
20251003.12	0.90	SW	4.2	6	SW
20251003.15	0.83	SW	3.9	6	SW
20251003.18	0.84	SW	3.7	5	SW
20251003.21	0.83	SW	3.9	5	SW
20251004.00	0.86	SW	4.1	4	SW
20251004.03	0.92	SW	4.2	3	SW
20251004.06	0.87	SW	4.2	2	NW
20251004.09	0.77	SW	4.2	3	NW
20251004.12	0.66	SW	4.2	3	N

**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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