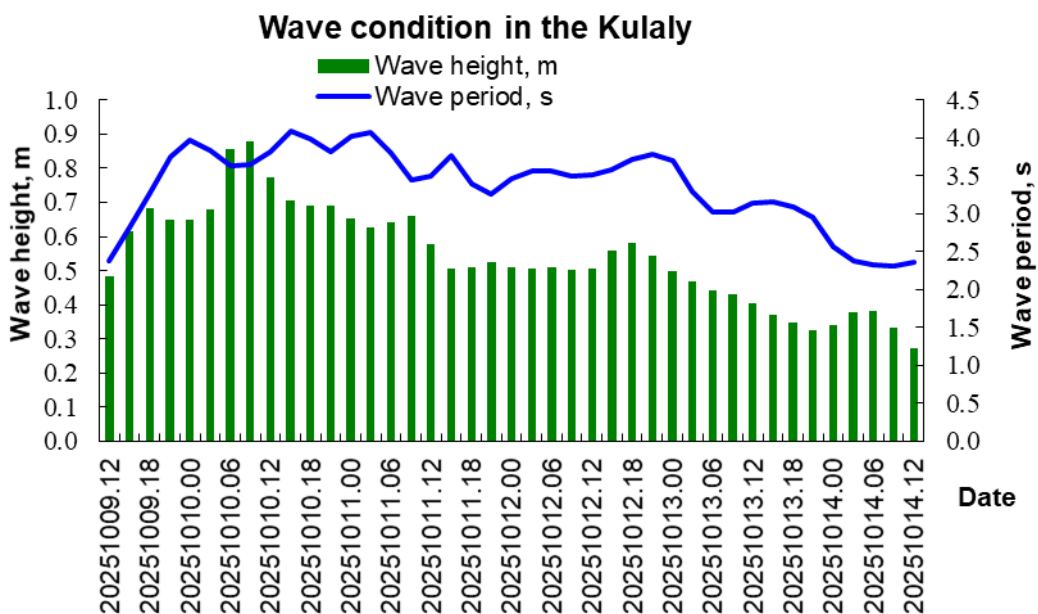
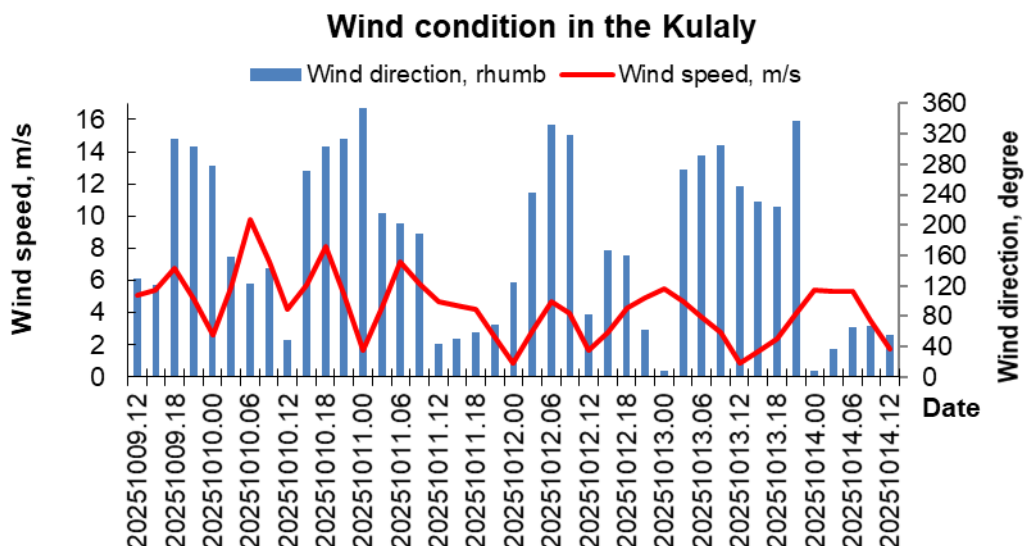




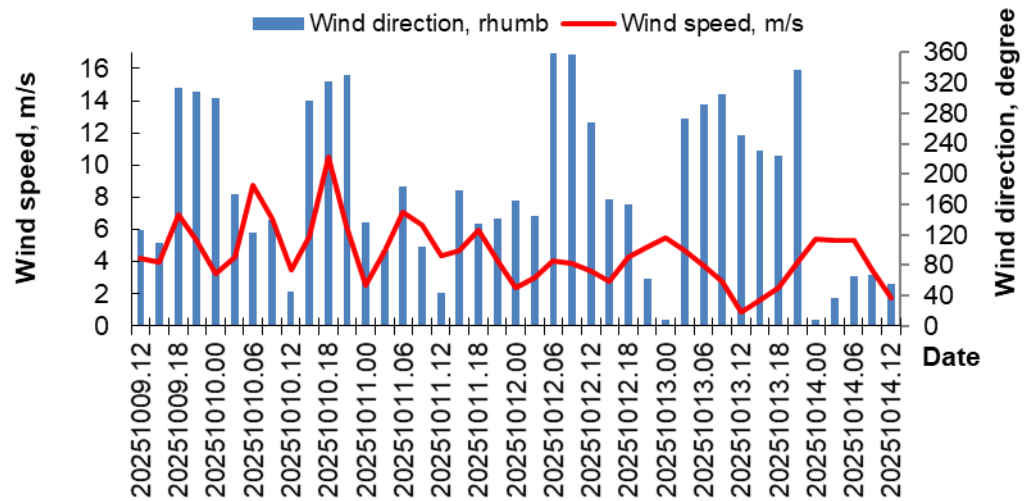
**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»**

**Wave and wind forecast for the Kazakhstan part of the Caspian Sea with a 5-day advance
using SWAN spectral model for the period October 09 – 14, 2025.**

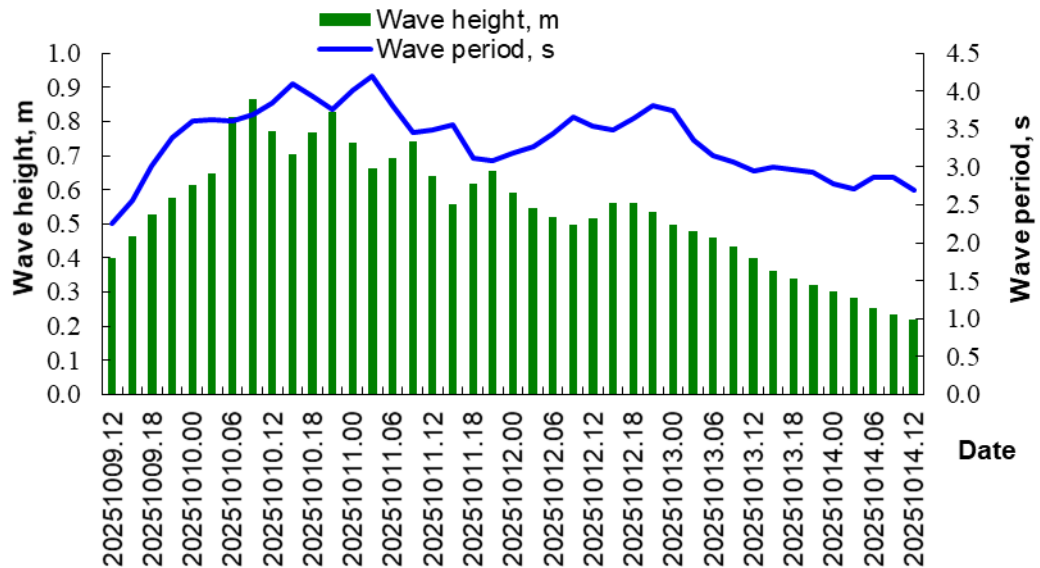


Date time	Kulaly				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251009.12	0.48	NW	2.4	5	SE
20251009.15	0.61	NW	2.8	5	SE
20251009.18	0.68	NW	3.3	7	NW
20251009.21	0.65	NW	3.7	5	NW
20251010.00	0.65	NW	4.0	3	W
20251010.03	0.68	NW	3.8	6	S
20251010.06	0.86	NW	3.6	10	SE
20251010.09	0.88	NW	3.7	7	SE
20251010.12	0.77	NW	3.8	4	NE
20251010.15	0.70	NW	4.1	6	W
20251010.18	0.69	NW	4.0	8	NW
20251010.21	0.69	W	3.8	5	NW
20251011.00	0.65	W	4.0	2	N
20251011.03	0.63	S	4.1	4	SW
20251011.06	0.64	SW	3.8	7	S
20251011.09	0.66	W	3.4	6	S
20251011.12	0.58	SW	3.5	5	NE
20251011.15	0.51	SE	3.8	4	NE
20251011.18	0.51	SE	3.4	4	NE
20251011.21	0.53	S	3.3	2	E
20251012.00	0.51	S	3.5	1	SE
20251012.03	0.51	S	3.6	3	SW
20251012.06	0.51	S	3.6	5	NW
20251012.09	0.50	S	3.5	4	NW
20251012.12	0.51	S	3.5	2	E
20251012.15	0.56	S	3.6	3	S
20251012.18	0.58	S	3.7	4	S
20251012.21	0.55	S	3.8	5	NE
20251013.00	0.50	S	3.7	6	N
20251013.03	0.47	S	3.3	5	W
20251013.06	0.44	SE	3.0	4	W
20251013.09	0.43	SE	3.0	3	NW
20251013.12	0.40	SE	3.1	1	W
20251013.15	0.37	SE	3.2	2	SW
20251013.18	0.35	SE	3.1	2	SW
20251013.21	0.33	SE	3.0	4	N
20251014.00	0.34	SE	2.6	5	N
20251014.03	0.38	E	2.4	5	NE
20251014.06	0.38	E	2.3	5	NE
20251014.09	0.33	NE	2.3	4	NE
20251014.12	0.27	E	2.4	2	NE

Wind condition in the Fort-Shevchenko

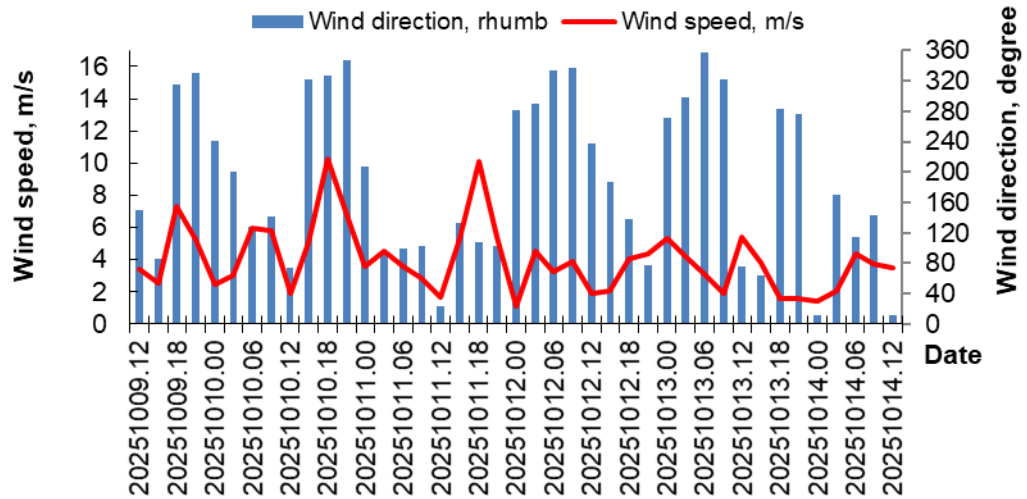


Wave condition in the Fort-Shevchenko

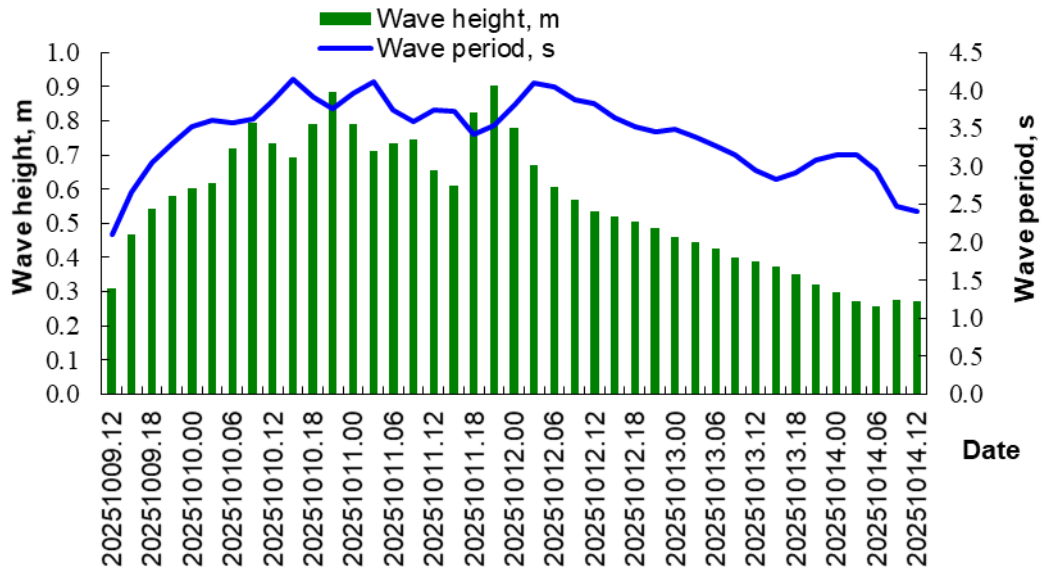


Date time	Fort-Shevchenko				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251009.12	0.40	NW	2.3	4	SE
20251009.15	0.46	NW	2.6	4	E
20251009.18	0.53	NW	3.0	7	NW
20251009.21	0.58	NW	3.4	5	NW
20251010.00	0.61	NW	3.6	3	NW
20251010.03	0.65	NW	3.6	4	S
20251010.06	0.81	NW	3.6	9	SE
20251010.09	0.87	NW	3.7	7	SE
20251010.12	0.77	NW	3.8	3	NE
20251010.15	0.71	NW	4.1	6	NW
20251010.18	0.77	W	3.9	11	NW
20251010.21	0.83	S	3.8	6	NW
20251011.00	0.74	S	4.0	3	SE
20251011.03	0.66	S	4.2	5	E
20251011.06	0.69	SW	3.8	7	S
20251011.09	0.74	W	3.5	6	E
20251011.12	0.64	W	3.5	4	NE
20251011.15	0.56	NW	3.6	5	S
20251011.18	0.62	NW	3.1	6	SE
20251011.21	0.65	NW	3.1	4	SE
20251012.00	0.59	W	3.2	2	S
20251012.03	0.55	W	3.3	3	SE
20251012.06	0.52	SW	3.4	4	N
20251012.09	0.50	SW	3.7	4	N
20251012.12	0.52	S	3.5	3	W
20251012.15	0.56	S	3.5	3	S
20251012.18	0.56	S	3.6	4	S
20251012.21	0.53	S	3.8	5	NE
20251013.00	0.50	S	3.7	6	N
20251013.03	0.48	S	3.4	5	W
20251013.06	0.46	SE	3.2	4	W
20251013.09	0.43	SE	3.1	3	NW
20251013.12	0.40	SE	3.0	1	W
20251013.15	0.36	SE	3.0	2	SW
20251013.18	0.34	SE	3.0	2	SW
20251013.21	0.32	SE	2.9	4	N
20251014.00	0.30	SE	2.8	5	N
20251014.03	0.28	SE	2.7	5	NE
20251014.06	0.25	SE	2.9	5	NE
20251014.09	0.23	E	2.9	4	NE
20251014.12	0.22	E	2.7	2	NE

Wind condition in the Aktau

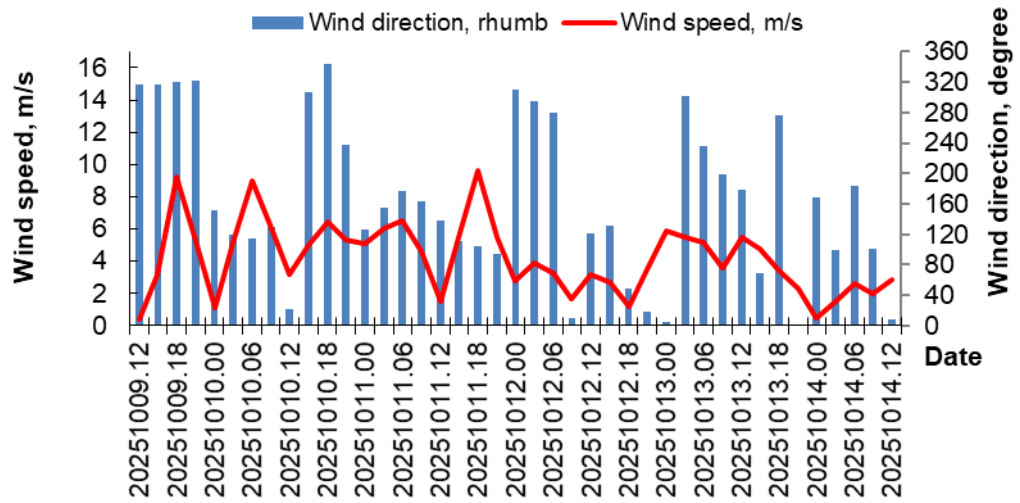


Wave condition in the Aktau

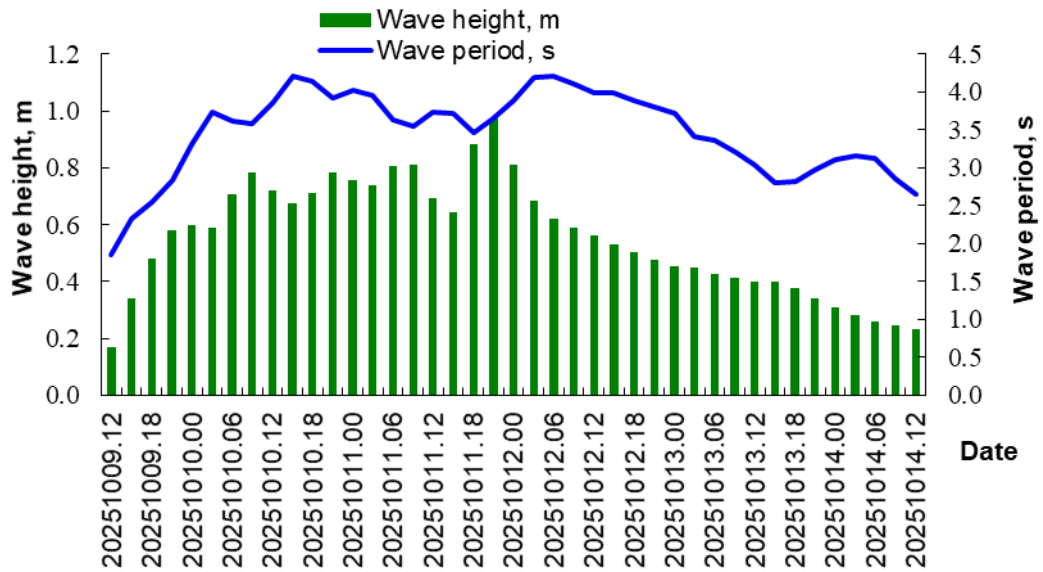


Date time	Aktau				
	Wave height, m	Направление волны, румб	Wave height, m	Скорость ветра, м/с	Wave height, m
20251009.12	0.31	NW	2.1	3	SE
20251009.15	0.47	NW	2.7	3	E
20251009.18	0.54	NW	3.0	7	NW
20251009.21	0.58	W	3.3	5	NW
20251010.00	0.60	W	3.5	2	SW
20251010.03	0.62	W	3.6	3	S
20251010.06	0.72	W	3.6	6	SE
20251010.09	0.79	W	3.6	6	SE
20251010.12	0.73	W	3.9	2	E
20251010.15	0.69	W	4.1	5	NW
20251010.18	0.79	W	3.9	10	NW
20251010.21	0.88	S	3.8	7	N
20251011.00	0.79	S	4.0	4	SW
20251011.03	0.71	SW	4.1	5	E
20251011.06	0.74	SW	3.7	4	E
20251011.09	0.74	W	3.6	3	E
20251011.12	0.65	W	3.8	2	NE
20251011.15	0.61	NW	3.7	5	SE
20251011.18	0.82	NW	3.4	10	E
20251011.21	0.90	NW	3.5	5	E
20251012.00	0.78	NW	3.8	1	W
20251012.03	0.67	NW	4.1	5	W
20251012.06	0.61	NW	4.0	3	NW
20251012.09	0.57	W	3.9	4	NW
20251012.12	0.53	W	3.8	2	SW
20251012.15	0.52	W	3.6	2	S
20251012.18	0.50	W	3.5	4	SE
20251012.21	0.48	W	3.5	4	E
20251013.00	0.46	W	3.5	5	W
20251013.03	0.44	SW	3.4	4	NW
20251013.06	0.42	SW	3.3	3	N
20251013.09	0.40	SW	3.1	2	NW
20251013.12	0.39	S	3.0	5	E
20251013.15	0.37	NE	2.8	4	NE
20251013.18	0.35	N	2.9	2	W
20251013.21	0.32	N	3.1	2	W
20251014.00	0.30	N	3.2	1	N
20251014.03	0.27	N	3.1	2	S
20251014.06	0.26	N	2.9	4	SE
20251014.09	0.27	NW	2.5	4	SE
20251014.12	0.27	N	2.4	4	N

Wind condition in the Peschanyi

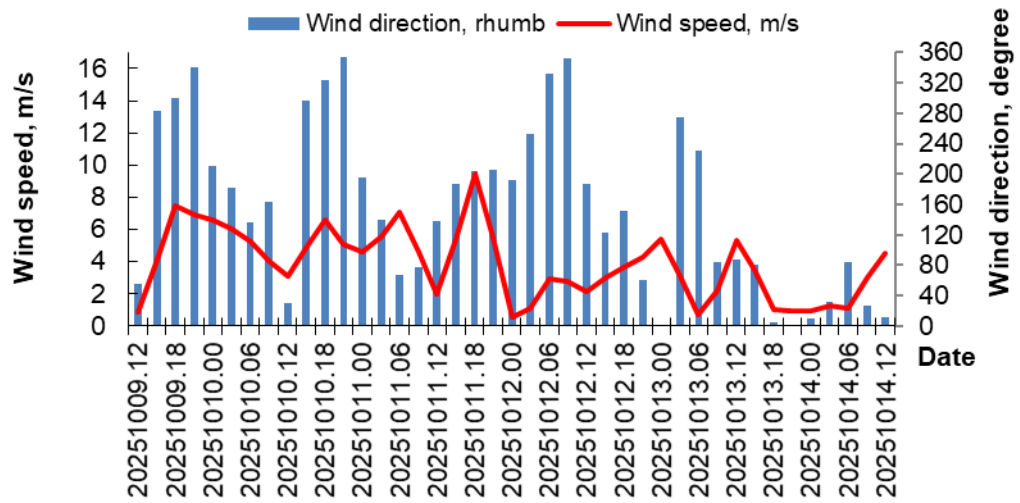


Wave condition in the Peschanyi

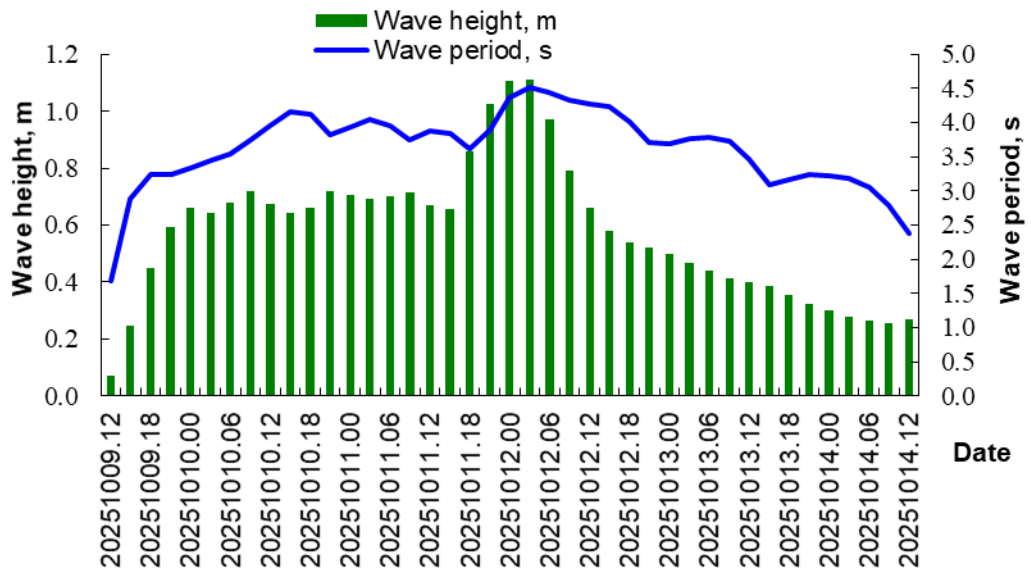


Date time	Peschanyi (Isan)				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251009.12	0.17	NW	1.9	0	NW
20251009.15	0.34	NW	2.3	3	NW
20251009.18	0.48	W	2.6	9	NW
20251009.21	0.58	S	2.8	5	NW
20251010.00	0.60	SW	3.3	1	SE
20251010.03	0.59	W	3.7	5	SE
20251010.06	0.71	W	3.6	9	SE
20251010.09	0.78	W	3.6	6	SE
20251010.12	0.72	W	3.8	3	N
20251010.15	0.68	W	4.2	5	NW
20251010.18	0.71	W	4.2	6	N
20251010.21	0.78	SW	3.9	5	SW
20251011.00	0.76	SW	4.0	5	SE
20251011.03	0.74	W	4.0	6	SE
20251011.06	0.81	W	3.6	6	S
20251011.09	0.81	W	3.5	5	S
20251011.12	0.69	W	3.7	2	SE
20251011.15	0.64	W	3.7	6	E
20251011.18	0.88	W	3.5	10	E
20251011.21	0.97	W	3.7	5	E
20251012.00	0.81	W	3.9	3	NW
20251012.03	0.68	NW	4.2	4	NW
20251012.06	0.62	NW	4.2	3	W
20251012.09	0.59	W	4.1	2	N
20251012.12	0.56	W	4.0	3	SE
20251012.15	0.53	W	4.0	3	SE
20251012.18	0.50	W	3.9	1	NE
20251012.21	0.47	W	3.8	4	N
20251013.00	0.45	W	3.7	6	N
20251013.03	0.45	W	3.4	6	NW
20251013.06	0.43	W	3.4	5	SW
20251013.09	0.41	SW	3.2	4	S
20251013.12	0.40	W	3.0	5	S
20251013.15	0.40	NW	2.8	5	E
20251013.18	0.38	N	2.8	3	W
20251013.21	0.34	NW	3.0	2	N
20251014.00	0.31	NW	3.1	0	S
20251014.03	0.28	NW	3.2	2	E
20251014.06	0.26	NW	3.1	3	S
20251014.09	0.24	NW	2.9	2	E
20251014.12	0.23	NW	2.6	3	N

Wind condition in the Fetisovo

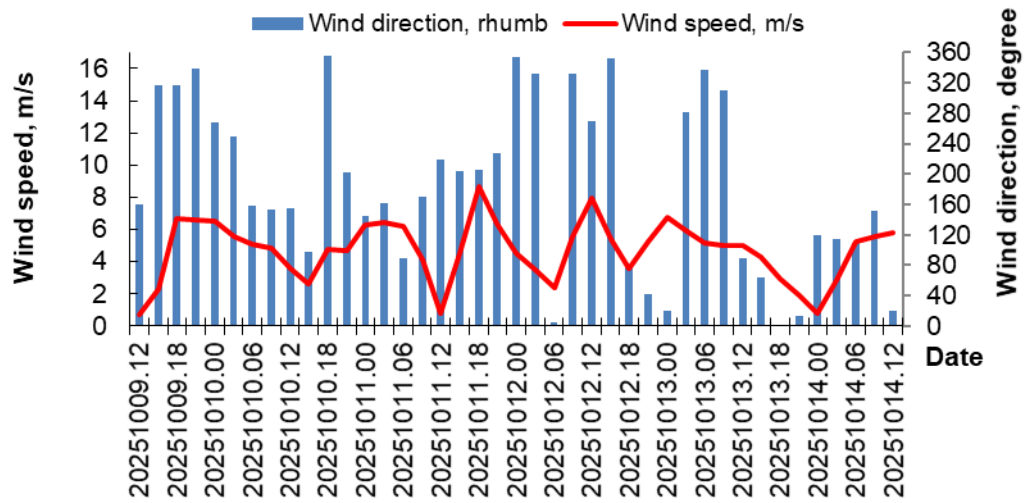


Wave condition in the Fetisovo

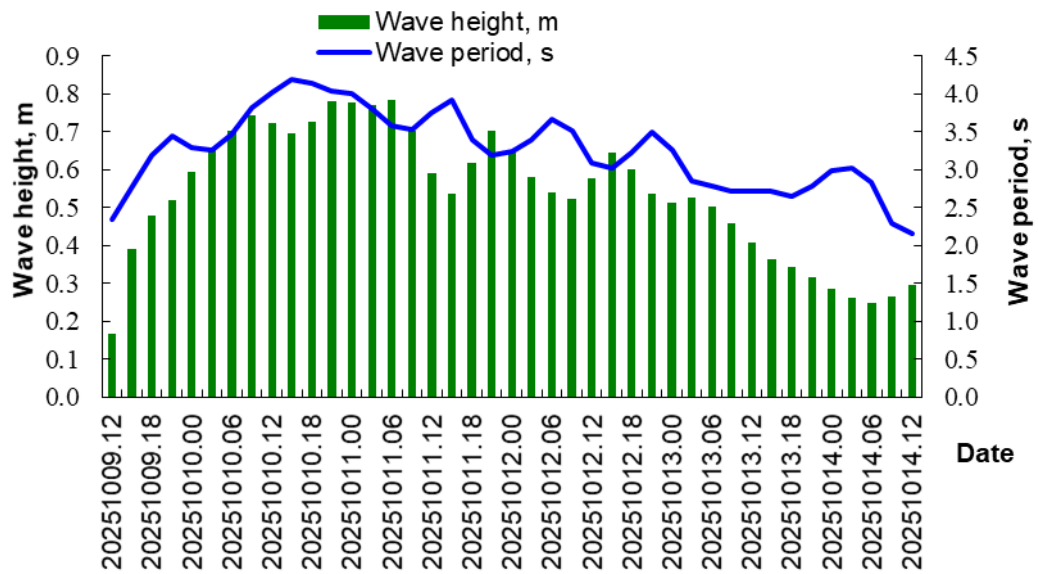


Date time	Fetisovo				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251009.12	0.07	NW	1.7	1	NE
20251009.15	0.25	W	2.9	4	W
20251009.18	0.45	W	3.2	8	NW
20251009.21	0.59	SW	3.2	7	N
20251010.00	0.66	SW	3.3	7	SW
20251010.03	0.64	SW	3.4	6	S
20251010.06	0.68	W	3.5	5	SE
20251010.09	0.72	W	3.7	4	S
20251010.12	0.68	W	3.9	3	NE
20251010.15	0.64	W	4.2	5	NW
20251010.18	0.66	W	4.1	7	NW
20251010.21	0.72	W	3.8	5	N
20251011.00	0.71	W	3.9	5	S
20251011.03	0.69	W	4.1	6	SE
20251011.06	0.70	NW	3.9	7	E
20251011.09	0.72	NW	3.7	5	E
20251011.12	0.67	NW	3.9	2	SE
20251011.15	0.66	NW	3.8	5	S
20251011.18	0.86	NW	3.6	9	SW
20251011.21	1.02	NW	3.9	6	SW
20251012.00	1.11	NW	4.4	1	S
20251012.03	1.11	NW	4.5	1	W
20251012.06	0.97	NW	4.4	3	NW
20251012.09	0.79	W	4.3	3	N
20251012.12	0.66	W	4.3	2	S
20251012.15	0.58	NW	4.2	3	SE
20251012.18	0.54	NW	4.0	4	SE
20251012.21	0.52	NW	3.7	4	NE
20251013.00	0.50	NW	3.7	5	N
20251013.03	0.47	NW	3.8	3	W
20251013.06	0.44	NW	3.8	1	SW
20251013.09	0.41	W	3.7	2	E
20251013.12	0.40	NW	3.5	5	E
20251013.15	0.39	NW	3.1	3	E
20251013.18	0.35	NW	3.2	1	N
20251013.21	0.32	NW	3.2	1	N
20251014.00	0.30	NW	3.2	1	N
20251014.03	0.28	NW	3.2	1	NE
20251014.06	0.26	NW	3.0	1	E
20251014.09	0.26	N	2.8	3	NE
20251014.12	0.27	N	2.4	4	N

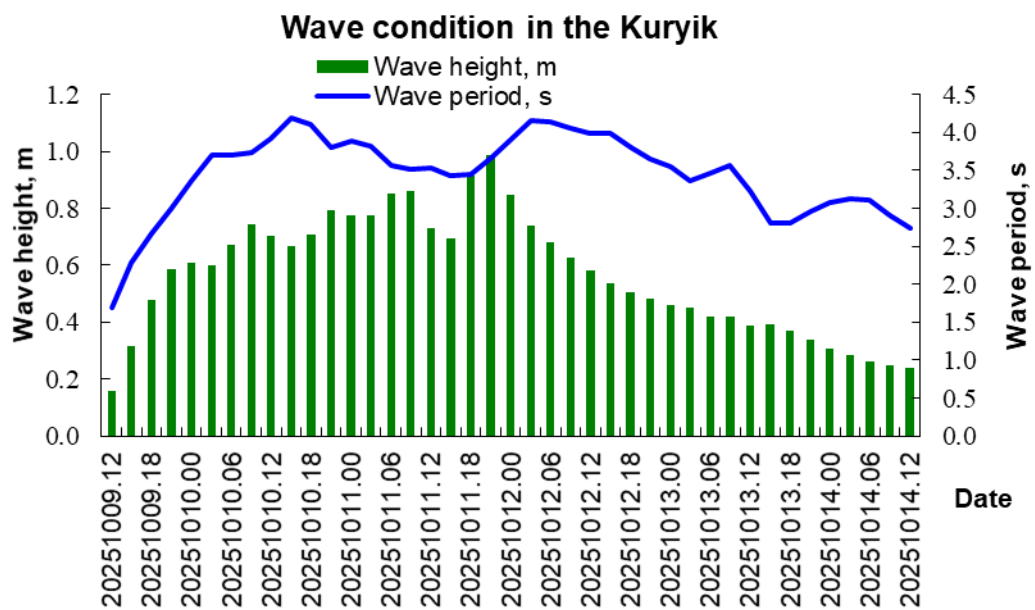
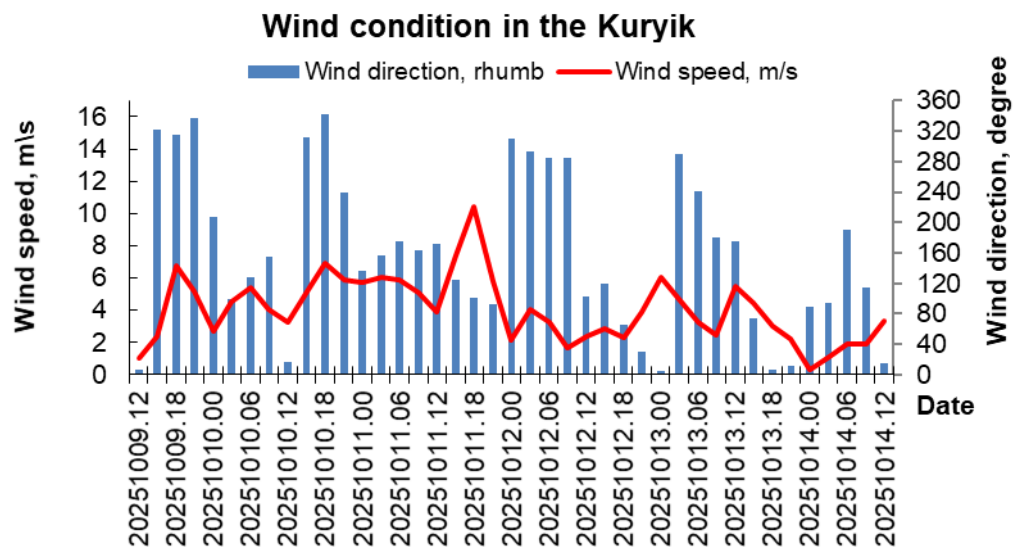
Wind condition in the Saura



Wave condition in the Saura



Date time	Saura				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251009.12	0.17	NW	2.3	1	S
20251009.15	0.39	W	2.8	2	NW
20251009.18	0.48	W	3.2	7	NW
20251009.21	0.52	W	3.4	7	N
20251010.00	0.59	W	3.3	7	W
20251010.03	0.66	W	3.3	6	W
20251010.06	0.70	W	3.5	5	S
20251010.09	0.74	W	3.8	5	SE
20251010.12	0.72	NW	4.0	4	SE
20251010.15	0.70	NW	4.2	3	E
20251010.18	0.73	W	4.1	5	N
20251010.21	0.78	SW	4.0	5	SW
20251011.00	0.78	SW	4.0	6	SE
20251011.03	0.77	NW	3.8	6	S
20251011.06	0.79	NW	3.6	6	E
20251011.09	0.70	NW	3.5	4	S
20251011.12	0.59	NW	3.8	1	SW
20251011.15	0.54	NW	3.9	5	SW
20251011.18	0.62	W	3.4	9	SW
20251011.21	0.70	W	3.2	6	SW
20251012.00	0.65	W	3.3	5	N
20251012.03	0.58	W	3.4	3	NW
20251012.06	0.54	W	3.7	2	N
20251012.09	0.52	SW	3.5	6	NW
20251012.12	0.58	S	3.1	8	W
20251012.15	0.64	S	3.0	5	N
20251012.18	0.60	S	3.2	4	E
20251012.21	0.54	S	3.5	5	NE
20251013.00	0.51	S	3.3	7	N
20251013.03	0.53	SE	2.8	6	W
20251013.06	0.50	SE	2.8	5	NW
20251013.09	0.46	SE	2.7	5	NW
20251013.12	0.41	SE	2.7	5	E
20251013.15	0.37	SE	2.7	4	NE
20251013.18	0.35	E	2.6	3	N
20251013.21	0.32	E	2.8	2	N
20251014.00	0.29	E	3.0	1	SE
20251014.03	0.26	E	3.0	3	SE
20251014.06	0.25	E	2.8	5	E
20251014.09	0.27	N	2.3	6	SE
20251014.12	0.30	NE	2.2	6	N



Date time	Kuryk				
	Wave height, m	Wave direction, rhumb	Wave period, s	Wind speed, m/s	Wind direction, rhumb
20251009.12	0.16	N	1.7	1	N
20251009.15	0.32	NW	2.3	2	NW
20251009.18	0.48	W	2.7	7	NW
20251009.21	0.59	SW	3.0	5	NW
20251010.00	0.61	SW	3.4	3	SW
20251010.03	0.60	W	3.7	5	E
20251010.06	0.67	W	3.7	5	SE
20251010.09	0.74	W	3.7	4	SE
20251010.12	0.70	W	3.9	3	N
20251010.15	0.67	W	4.2	5	NW
20251010.18	0.71	W	4.1	7	N
20251010.21	0.80	SW	3.8	6	SW
20251011.00	0.78	SW	3.9	6	SE
20251011.03	0.78	W	3.8	6	SE
20251011.06	0.85	NW	3.6	6	S
20251011.09	0.86	NW	3.5	5	S
20251011.12	0.73	NW	3.5	4	S
20251011.15	0.69	NW	3.4	7	SE
20251011.18	0.91	NW	3.5	10	E
20251011.21	0.99	NW	3.7	6	E
20251012.00	0.85	NW	3.9	2	NW
20251012.03	0.74	NW	4.2	4	NW
20251012.06	0.68	NW	4.1	3	W
20251012.09	0.63	W	4.1	2	W
20251012.12	0.58	W	4.0	2	E
20251012.15	0.54	W	4.0	3	SE
20251012.18	0.51	W	3.8	2	NE
20251012.21	0.48	W	3.7	4	NE
20251013.00	0.46	NW	3.5	6	N
20251013.03	0.45	W	3.4	5	W
20251013.06	0.42	W	3.5	3	SW
20251013.09	0.42	W	3.6	2	S
20251013.12	0.39	W	3.2	6	S
20251013.15	0.39	NW	2.8	4	E
20251013.18	0.37	N	2.8	3	N
20251013.21	0.34	N	3.0	2	N
20251014.00	0.31	N	3.1	0	E
20251014.03	0.28	N	3.1	1	E
20251014.06	0.26	NW	3.1	2	S
20251014.09	0.25	NW	2.9	2	SE
20251014.12	0.24	NW	2.7	3	N

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

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Checked by: Shishkina G.M.

RSE «Kazhydromet» – Caspian Sea Hydrometeorological Research Department

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