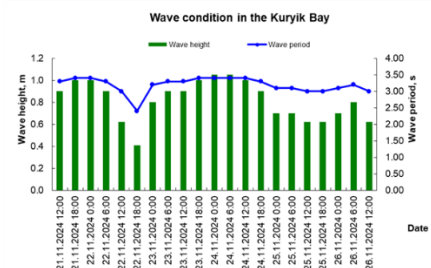
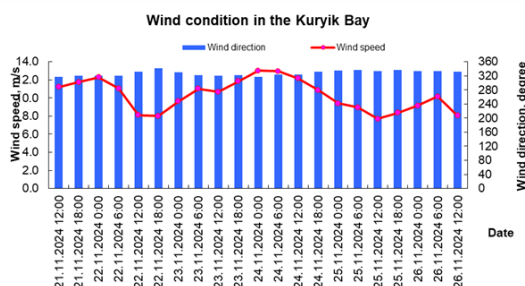
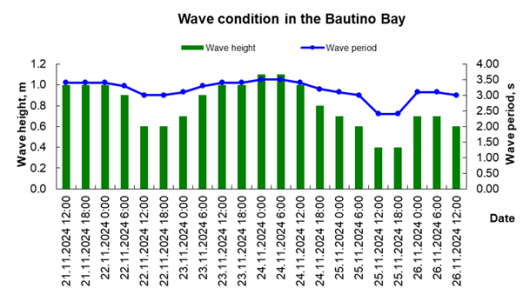
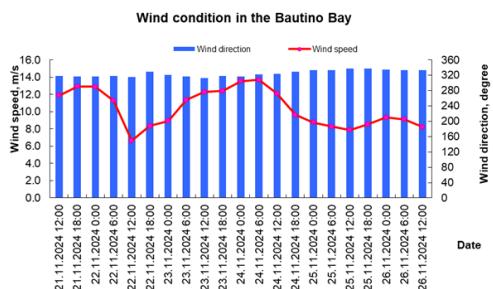
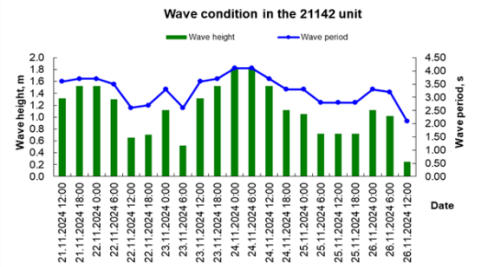
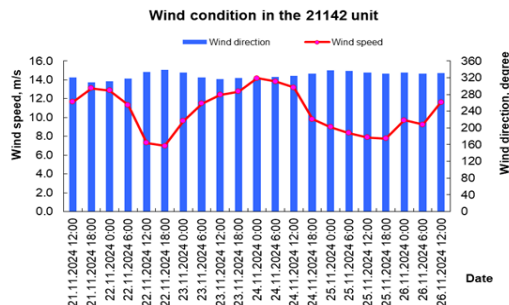
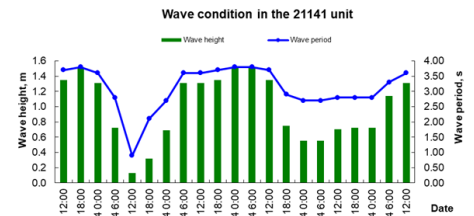
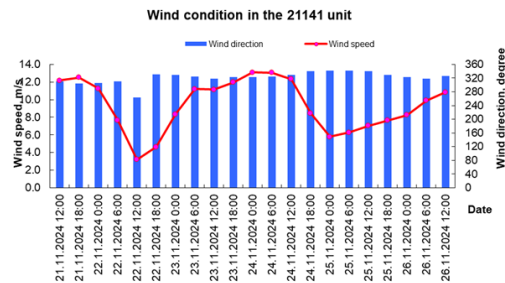
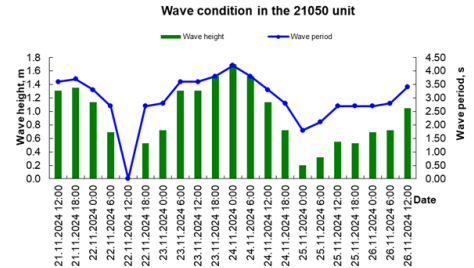
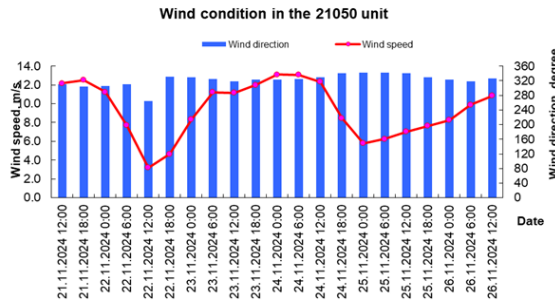




MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN
RSE «KAZHYDROMET»
SCIENTIFIC RESEARCH CENTER
DEPARTMENT OF HYDROMETEOROLOGICAL RESEARCH OF THE CASPIAN SEA

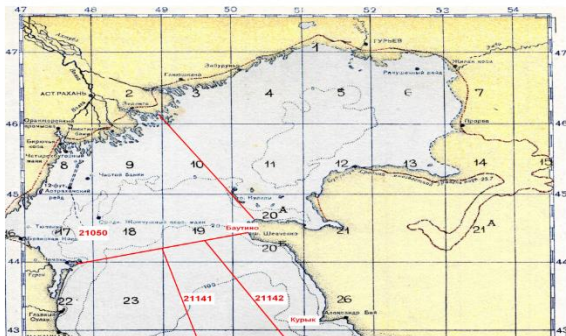
№47 Wave Bulletin for the Middle Caspian Sea

22.11.2024



Date, time	21050 area				21141 area				21142 area				Bautino Bay				Kuryk Bay			
	WS, m/s	WD, rhumb	H, m	t, s	WS, m/s	WD, rhumb	H, m	t, s	WS, m/s	WD, rhumb	H, m	t, s	WS, m/s	WD, rhumb	H, m	t, s	WS, m/s	WD, rhumb	H, m	t, s
21.11.2024 12:00	11	NW	1.31	3.60	12	NW	1.35	3.70	12	NW	1.32	3.60	12	NW	1.00	3.40	11	NW	0.90	3.30
21.11.2024 18:00	12	NW	1.35	3.70	13	NW	1.52	3.80	13	NW	1.52	3.70	13	NW	1.00	3.40	12	NW	1.00	3.40
22.11.2024 0:00	10	NW	1.14	3.30	11	NW	1.31	3.60	13	NW	1.52	3.70	13	NW	1.00	3.40	12	NW	1.00	3.40
22.11.2024 6:00	7	NW	0.69	2.70	8	NW	0.72	2.80	11	NW	1.30	3.50	11	NW	0.90	3.30	11	NW	0.90	3.30
22.11.2024 12:00	1	W	0.00	0.00	3	W	0.13	0.90	7	NW	0.65	2.60	7	NW	0.60	3.00	8	NW	0.62	3.00
22.11.2024 18:00	6	NW	0.53	2.70	5	NW	0.32	2.10	7	N	0.70	2.70	8	NW	0.60	3.00	8	N	0.41	2.40
23.11.2024 0:00	8	NW	0.72	2.80	7	NW	0.69	2.70	10	NW	1.12	3.30	9	NW	0.70	3.10	10	NW	0.80	3.20
23.11.2024 6:00	11	NW	1.31	3.60	11	NW	1.31	3.60	6	NW	0.52	2.60	11	NW	0.90	3.30	11	NW	0.90	3.30
23.11.2024 12:00	11	NW	1.31	3.60	11	NW	1.31	3.60	12	NW	1.32	3.60	12	NW	1.00	3.40	11	NW	0.90	3.30
23.11.2024 18:00	13	NW	1.52	3.80	12	NW	1.35	3.70	13	NW	1.52	3.70	12	NW	1.00	3.40	12	NW	1.00	3.40
24.11.2024 0:00	14	NW	1.70	4.20	13	NW	1.52	3.80	14	NW	1.82	4.10	14	NW	1.10	3.50	13	NW	1.05	3.40
24.11.2024 6:00	13	NW	1.52	3.80	13	NW	1.52	3.80	14	NW	1.82	4.10	14	NW	1.10	3.50	13	NW	1.05	3.40
24.11.2024 12:00	10	NW	1.14	3.30	12	NW	1.35	3.70	13	NW	1.52	3.70	12	NW	1.00	3.40	12	NW	1.00	3.40
24.11.2024 18:00	8	N	0.72	2.80	8	N	0.75	2.90	10	NW	1.12	3.30	10	NW	0.80	3.20	11	NW	0.90	3.30
25.11.2024 0:00	4	N	0.20	1.80	6	N	0.55	2.70	9	N	1.05	3.30	9	NW	0.70	3.10	9	NW	0.70	3.10
25.11.2024 6:00	5	N	0.32	2.10	6	N	0.55	2.70	8	NW	0.72	2.80	8	NW	0.60	3.00	9	NW	0.70	3.10
25.11.2024 12:00	6	N	0.55	2.70	7	N	0.70	2.80	8	NW	0.72	2.80	8	N	0.40	2.40	8	NW	0.62	3.00
25.11.2024 18:00	6	NW	0.53	2.70	8	NW	0.72	2.80	8	NW	0.72	2.80	9	N	0.40	2.40	8	NW	0.62	3.00
26.11.2024 0:00	7	NW	0.69	2.70	8	NW	0.72	2.80	10	NW	1.12	3.30	9	NW	0.70	3.10	9	NW	0.70	3.10
26.11.2024 6:00	8	NW	0.72	2.80	10	NW	1.14	3.30	9	NW	1.02	3.20	9	NW	0.70	3.10	10	NW	0.80	3.20
26.11.2024 12:00	9	NW	1.05	3.40	11	NW	1.31	3.60	5	NW	0.25	2.10	8	NW	0.60	3.00	8	NW	0.62	3.00

WS – wind speed; WD - wind direction; H - wave height; t - wave period.



Schematic diagram of the areas in the middle part of the Caspian Sea

Prepared by the leading engineer: Zhagparova N.N.

Bulletin compiled by the Caspian Sea Hydrometeorological Research Department

Address: 010000. Astana, Mangilik El 11/1. Тел.: (717)2 79 83 12;

e-mail: ugmikm@meteo.kz

When using materials of the bulletin the link to RSE "Kazhydromet" is obligatory