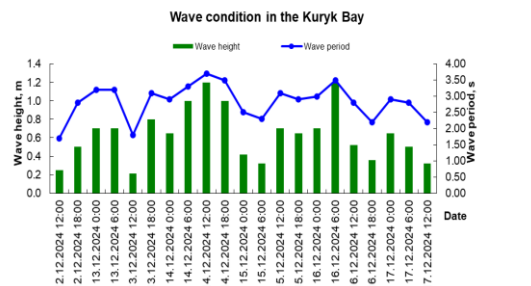
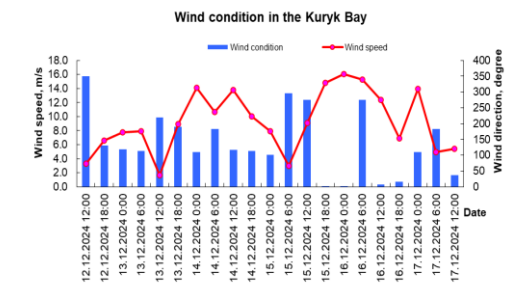
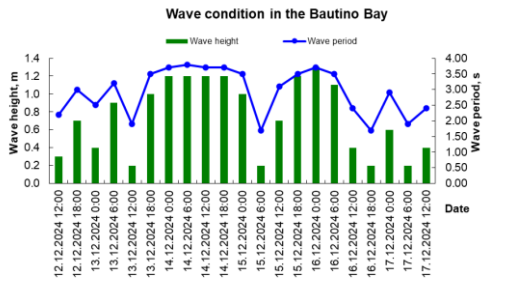
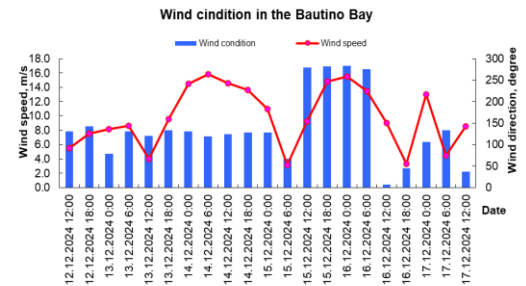
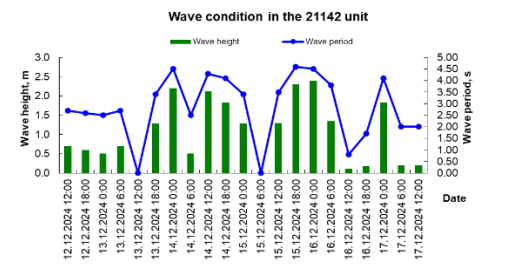
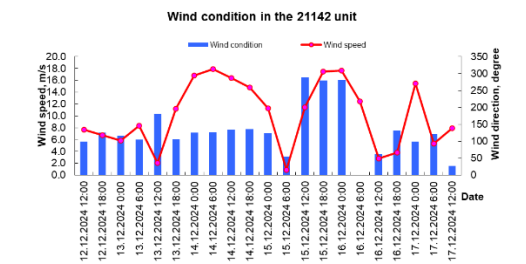
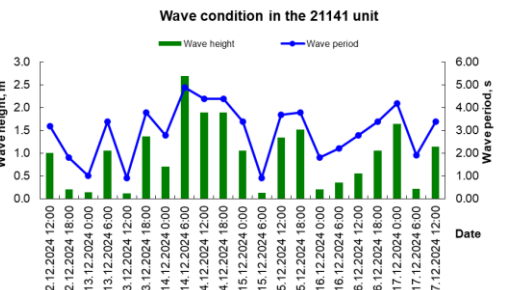
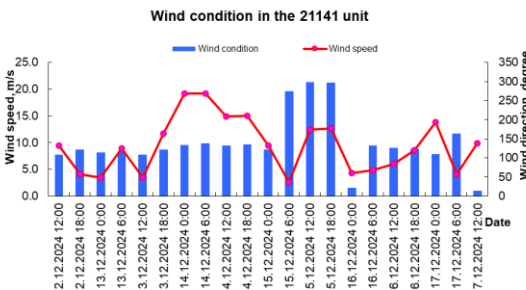
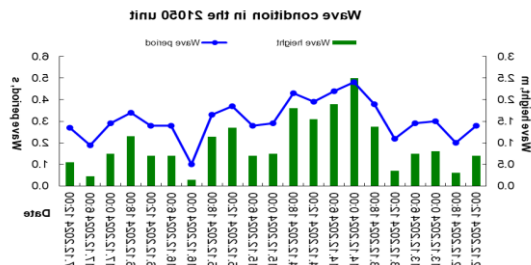
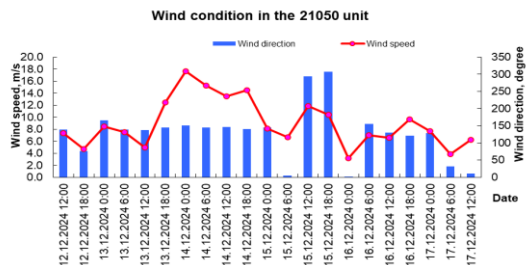




MINISTRY OF ECOLOGY AND NATURAL RESOURCES
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RSE «KAZHYDROMET»
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DEPARTMENT OF HYDROMETEOROLOGICAL RESEARCH OF THE CASPIAN SEA

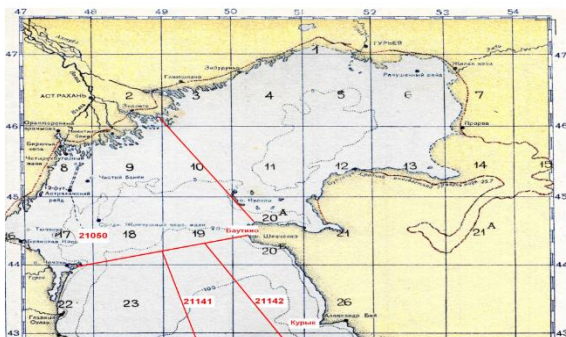
№50 Wave Bulletin for the Middle Caspian Sea

13.12.2024



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
12.12.2024 12:00	7.3	SE	0.7	2.8	9.5	E	1.0	3.2	7.7	E	0.7	2.7	5.5	SE	0.3	2.2	3	N	0.3	1.7
12.12.2024 18:00	4.7	E	0.3	2.0	4.1	SE	0.2	1.8	6.7	SE	0.6	2.6	7.5	SE	0.7	3.0	7	SE	0.5	2.8
13.12.2024 0:00	8.4	S	0.8	3.0	3.4	SE	0.1	1.0	5.8	SE	0.5	2.5	8.1	E	0.4	2.5	8	SE	0.7	3.2
13.12.2024 6:00	7.5	SE	0.8	2.9	8.9	SE	1.1	3.4	8.3	E	0.7	2.7	8.6	SE	0.9	3.2	8	SE	0.7	3.2
13.12.2024 12:00	4.9	SE	0.4	2.2	3.5	E	0.1	0.9	2.1	S	0.0	0.0	4.0	SE	0.2	1.9	2	SW	0.2	1.8
13.12.2024 18:00	12.4	SE	1.4	3.8	11.7	SE	1.4	3.8	11.2	E	1.3	3.4	9.6	SE	1.0	3.5	9	S	0.8	3.1
14.12.2024 0:00	17.7	SE	2.5	4.8	19.2	SE	0.7	2.8	16.8	SE	2.2	4.5	14.5	SE	1.2	3.7	14	E	0.7	2.9
14.12.2024 6:00	15.3	SE	1.9	4.4	19.1	SE	2.7	4.9	17.9	SE	0.5	2.5	15.8	SE	1.2	3.8	11	S	1.0	3.3
14.12.2024 12:00	13.4	SE	1.6	3.9	14.9	SE	1.9	4.4	16.4	SE	2.1	4.3	14.6	SE	1.2	3.7	14	SE	1.2	3.7
14.12.2024 18:00	14.5	SE	1.8	4.3	15.0	SE	1.9	4.4	14.8	SE	1.8	4.1	13.7	SE	1.2	3.7	10	SE	1.0	3.5
15.12.2024 0:00	8.1	SE	0.8	2.9	9.5	SE	1.1	3.4	11.3	SE	1.3	3.4	11.0	SE	1.0	3.5	8	E	0.4	2.5
15.12.2024 6:00	6.7	N	0.7	2.8	2.6	W	0.1	0.9	0.9	NE	0.0	0.0	3.1	NE	0.2	1.7	3	NW	0.3	2.3
15.12.2024 12:00	11.8	NW	1.4	3.7	12.4	NW	1.4	3.7	11.5	W	1.3	3.5	9.3	W	0.7	3.1	9	W	0.7	3.1
15.12.2024 18:00	10.4	NW	1.1	3.3	12.7	NW	1.5	3.8	17.4	W	2.3	4.6	14.8	W	1.2	3.5	15	N	0.7	2.9
16.12.2024 0:00	3.2	N	0.1	1.0	4.3	N	0.2	1.8	17.7	W	2.4	4.5	15.5	W	1.3	3.7	16	N	0.7	3.0
16.12.2024 6:00	7.0	SE	0.7	2.8	4.9	SE	0.4	2.2	12.5	N	1.4	3.8	13.5	W	1.1	3.5	15	W	1.2	3.5
16.12.2024 12:00	6.6	SE	0.7	2.8	6.1	SE	0.6	2.8	2.8	NE	0.1	0.8	9.1	N	0.4	2.4	12	N	0.5	2.8
16.12.2024 18:00	9.7	SE	1.2	3.4	8.5	SE	1.1	3.4	3.8	SE	0.2	1.7	3.3	NE	0.2	1.7	7	N	0.4	2.2
17.12.2024 0:00	7.7	SE	0.8	2.9	13.8	E	1.7	4.2	15.5	E	1.8	4.1	13.0	E	0.6	2.9	14	E	0.7	2.9
17.12.2024 6:00	3.8	NE	0.2	1.9	4.0	S	0.2	1.9	5.3	SE	0.2	2.0	4.4	SE	0.2	1.9	5	S	0.5	2.8
17.12.2024 12:00	6.3	N	0.6	2.7	9.9	N	1.2	3.4	7.9	NE	0.2	2.0	8.5	NE	0.4	2.4	5	NE	0.3	2.2

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: Bazarbay L.B.

Bulletin compiled by the Caspian Sea Hydrometeorological Research Department

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