

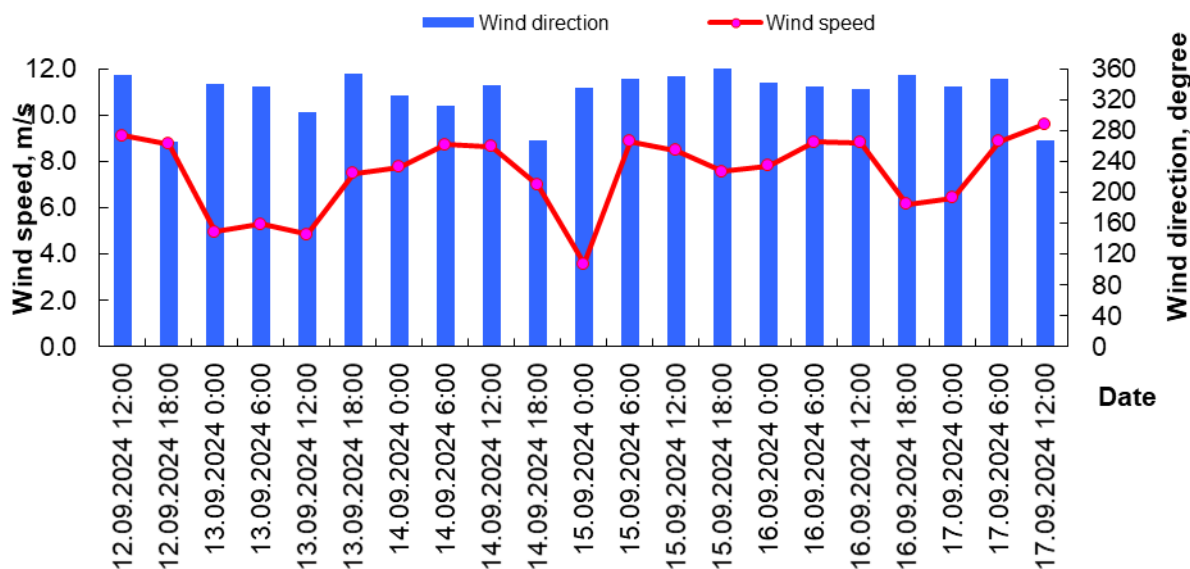


**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN**

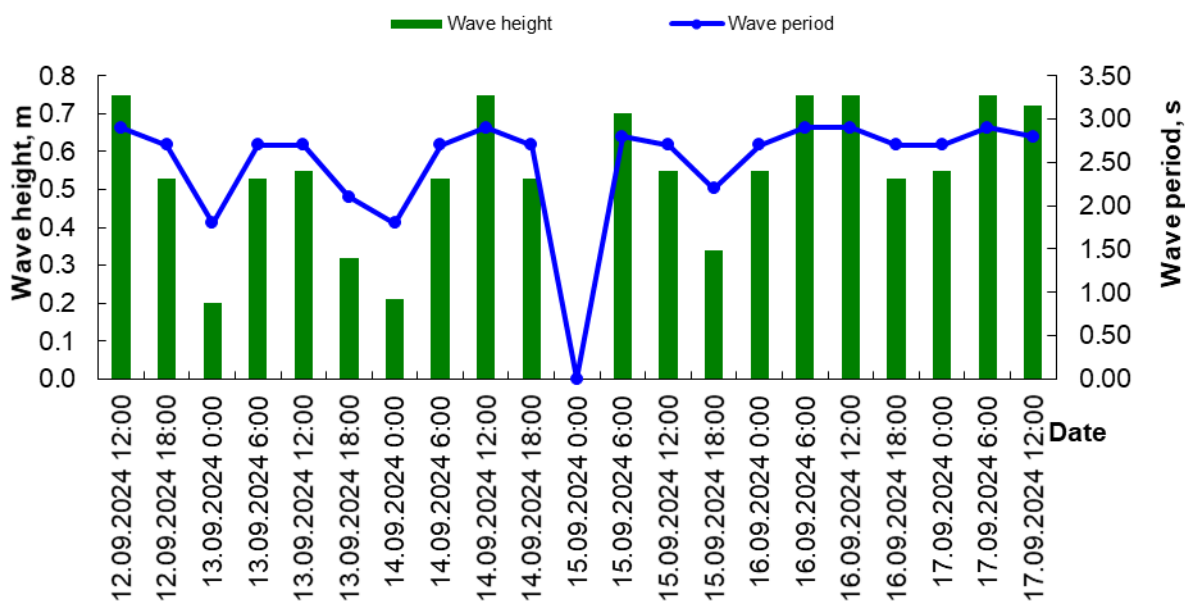
RSE «KAZHYDROMET»

**Wave and wind forecast for the Middle part of the Caspian Sea with a 5-day
advance for the period September 12-17, 2024**

Wind condition in the 21050 unit

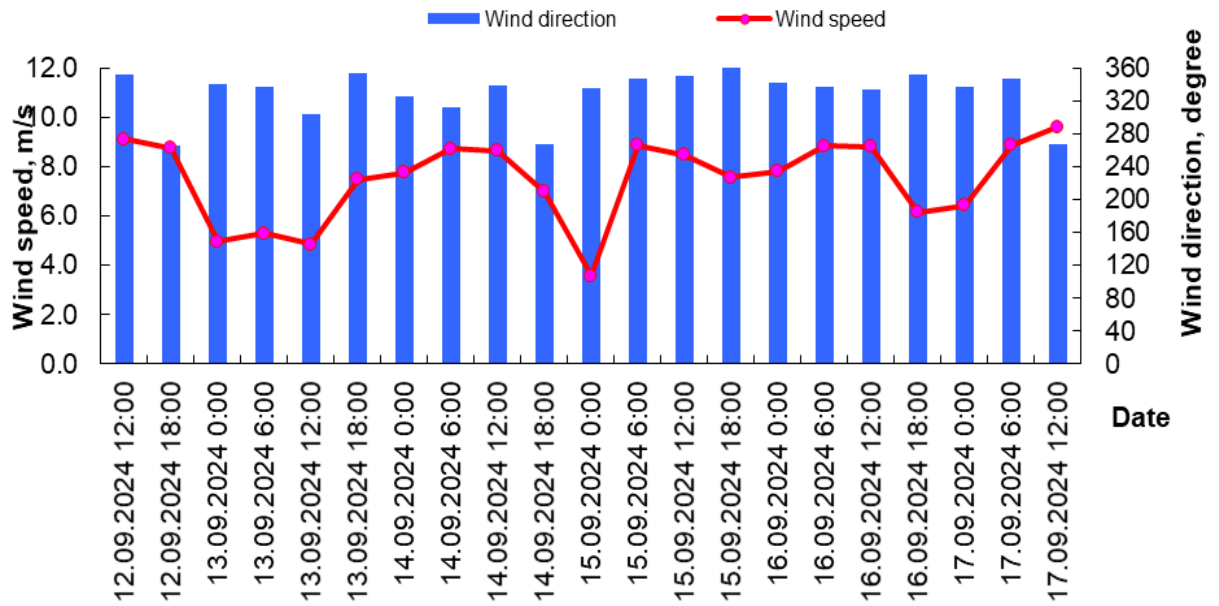


Wave condition in the 21050 unit

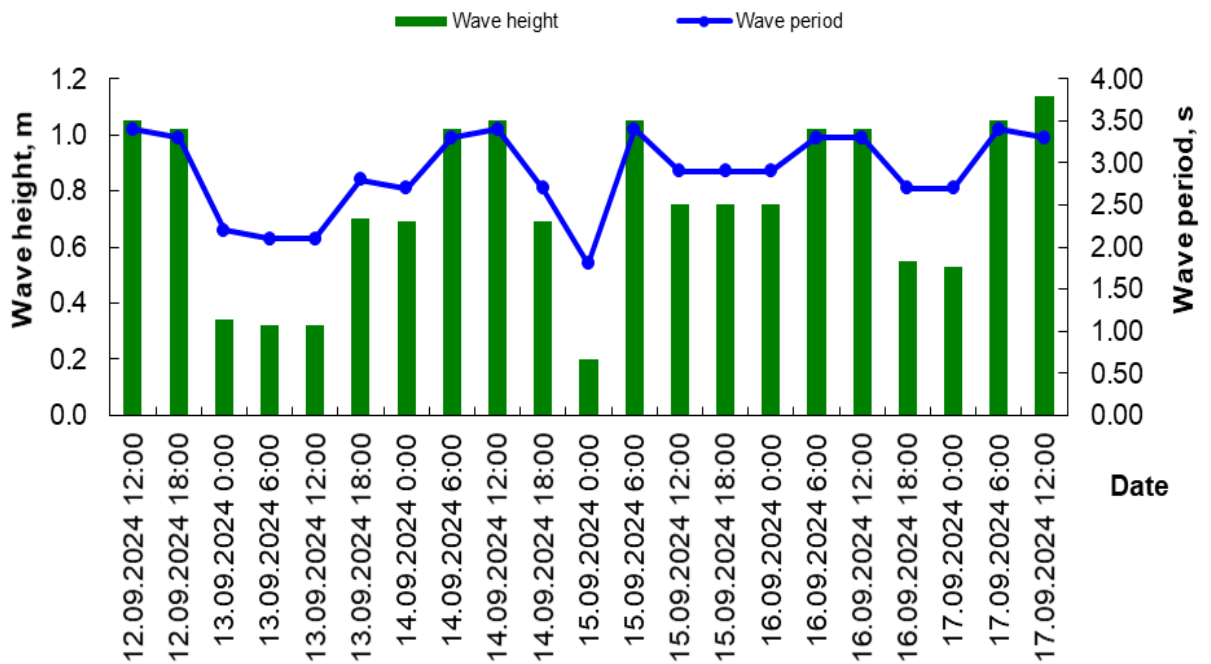


Date Time	Wind speed (WS) and wind direction (WD)		Wave height (H) and wave period (□)	
	WS, m/s	WD, rumb	H, m	t, s
12.09.2024 12:00	8	N	0.75	2.90
12.09.2024 18:00	6	W	0.53	2.70
13.09.2024 0:00	4	N	0.20	1.80
13.09.2024 6:00	6	NW	0.53	2.70
13.09.2024 12:00	6	NW	0.55	2.70
13.09.2024 18:00	5	N	0.32	2.10
14.09.2024 0:00	4	NW	0.21	1.80
14.09.2024 6:00	6	NW	0.53	2.70
14.09.2024 12:00	8	N	0.75	2.90
14.09.2024 18:00	6	W	0.53	2.70
15.09.2024 0:00	0	NW	0.00	0.00
15.09.2024 6:00	7	N	0.70	2.80
15.09.2024 12:00	6	N	0.55	2.70
15.09.2024 18:00	5	N	0.34	2.20
16.09.2024 0:00	6	N	0.55	2.70
16.09.2024 6:00	8	NW	0.75	2.90
16.09.2024 12:00	8	NW	0.75	2.90
16.09.2024 18:00	6	N	0.53	2.70
17.09.2024 0:00	6	NW	0.55	2.70
17.09.2024 6:00	8	N	0.75	2.90
17.09.2024 12:00	8	W	0.72	2.80

Wind condition in the 21141 unit

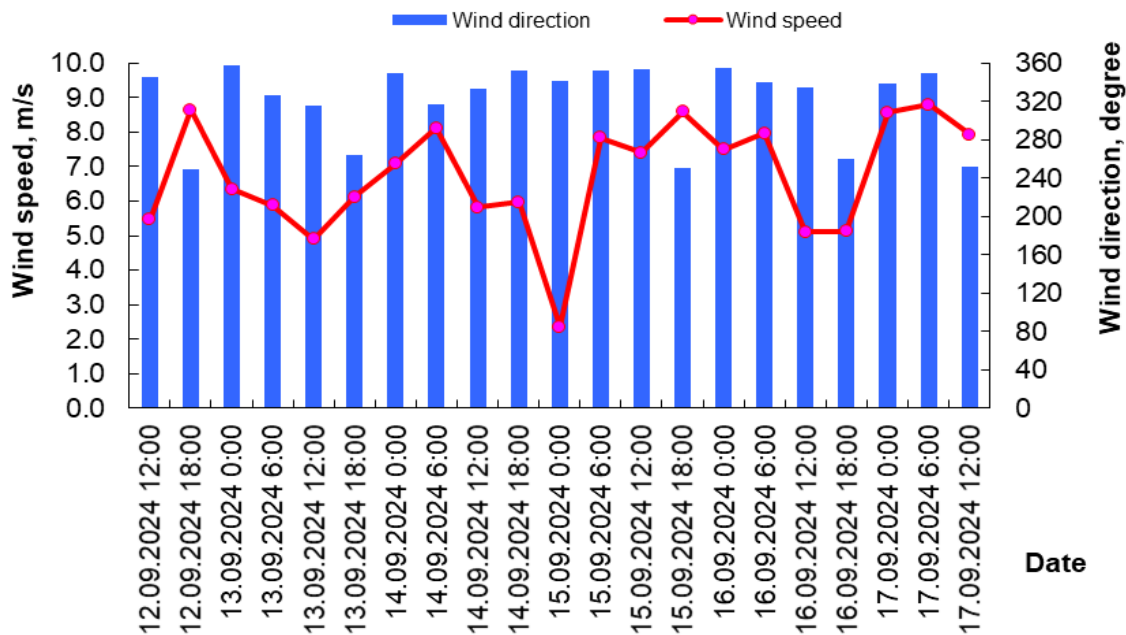


Wave condition in the 21141 unit

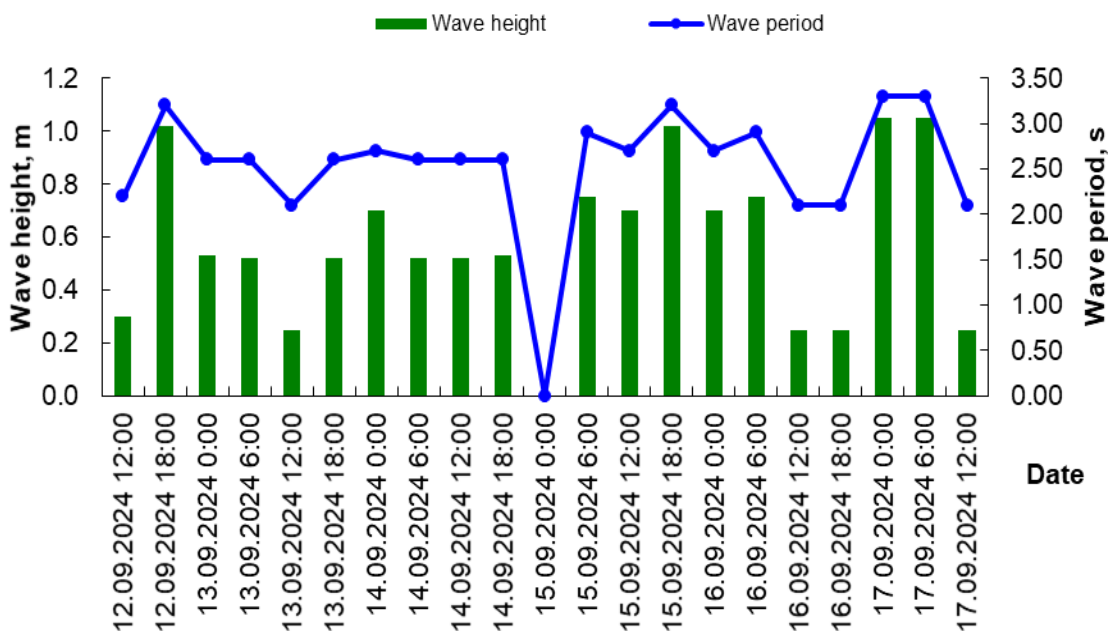


Date Time	Wind speed (WS) and wind direction (WD)		Wave height (H) and wave period (□)	
	WS, m/s	WD, rumb	H, m	t, s
12.09.2024 12:00	9	N	1.05	3.40
12.09.2024 18:00	9	W	1.02	3.30
13.09.2024 0:00	5	N	0.34	2.20
13.09.2024 6:00	5	NW	0.32	2.10
13.09.2024 12:00	5	NW	0.32	2.10
13.09.2024 18:00	7	N	0.70	2.80
14.09.2024 0:00	7	NW	0.69	2.70
14.09.2024 6:00	9	NW	1.02	3.30
14.09.2024 12:00	9	N	1.05	3.40
14.09.2024 18:00	7	W	0.69	2.70
15.09.2024 0:00	4	NW	0.20	1.80
15.09.2024 6:00	9	N	1.05	3.40
15.09.2024 12:00	8	N	0.75	2.90
15.09.2024 18:00	8	N	0.75	2.90
16.09.2024 0:00	8	N	0.75	2.90
16.09.2024 6:00	9	NW	1.02	3.30
16.09.2024 12:00	9	NW	1.02	3.30
16.09.2024 18:00	6	N	0.55	2.70
17.09.2024 0:00	6	NW	0.53	2.70
17.09.2024 6:00	9	N	1.05	3.40
17.09.2024 12:00	10	W	1.14	3.30

Wind condition in the 21142 unit

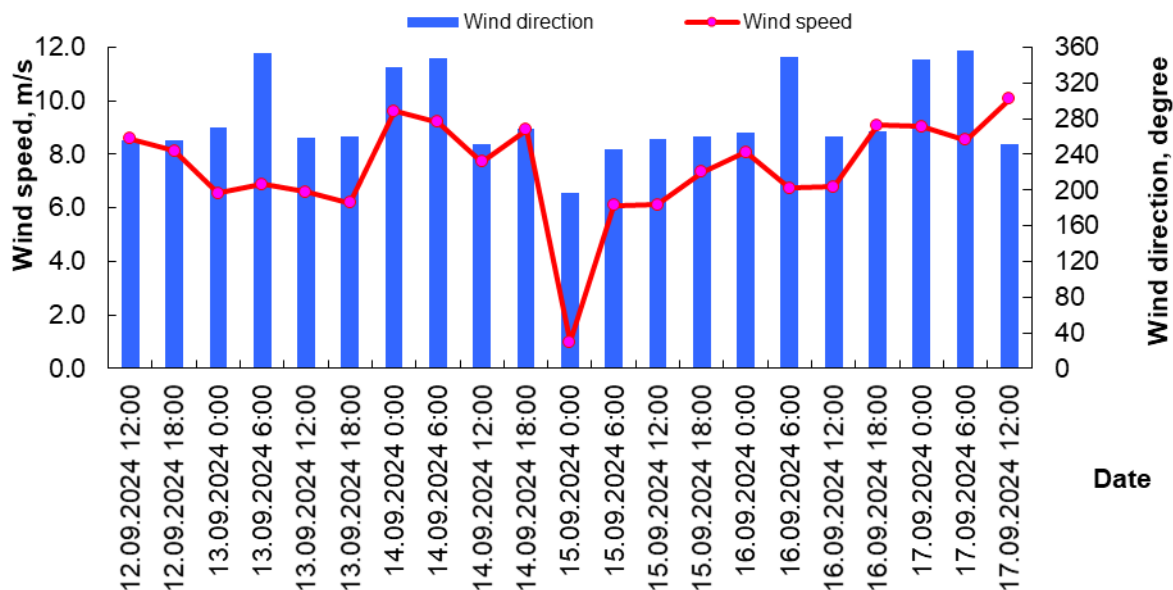


Wave condition in the 21142 unit

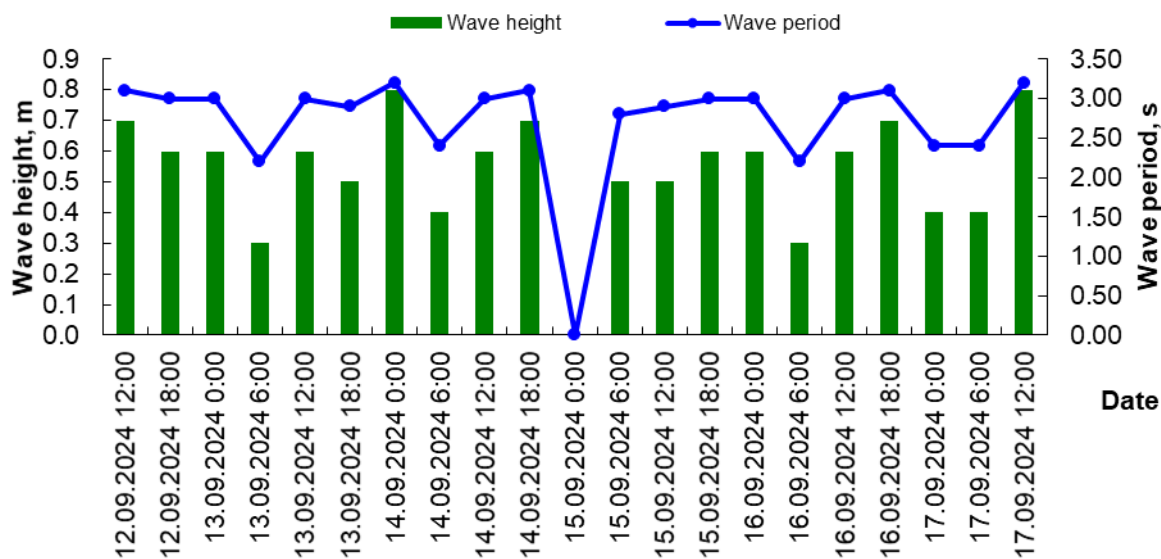


Date Time	Wind speed (WS) and wind direction (WD)		Wave height (H) and wave period (□)	
	WS, m/s	WD, rumb	H, m	t, s
12.09.2024 12:00	5	N	0.30	2.20
12.09.2024 18:00	9	W	1.02	3.20
13.09.2024 0:00	6	N	0.53	2.60
13.09.2024 6:00	6	NW	0.52	2.60
13.09.2024 12:00	5	NW	0.25	2.10
13.09.2024 18:00	6	W	0.52	2.60
14.09.2024 0:00	7	N	0.70	2.70
14.09.2024 6:00	6	NW	0.52	2.60
14.09.2024 12:00	6	NW	0.52	2.60
14.09.2024 18:00	6	N	0.53	2.60
15.09.2024 0:00	2	N	0.00	0.00
15.09.2024 6:00	8	N	0.75	2.90
15.09.2024 12:00	7	N	0.70	2.70
15.09.2024 18:00	9	W	1.02	3.20
16.09.2024 0:00	7	N	0.70	2.70
16.09.2024 6:00	8	N	0.75	2.90
16.09.2024 12:00	5	NW	0.25	2.10
16.09.2024 18:00	5	W	0.25	2.10
17.09.2024 0:00	9	N	1.05	3.30
17.09.2024 6:00	9	N	1.05	3.30
17.09.2024 12:00	5	W	0.25	2.10

Wind condition in the Bautino Bay

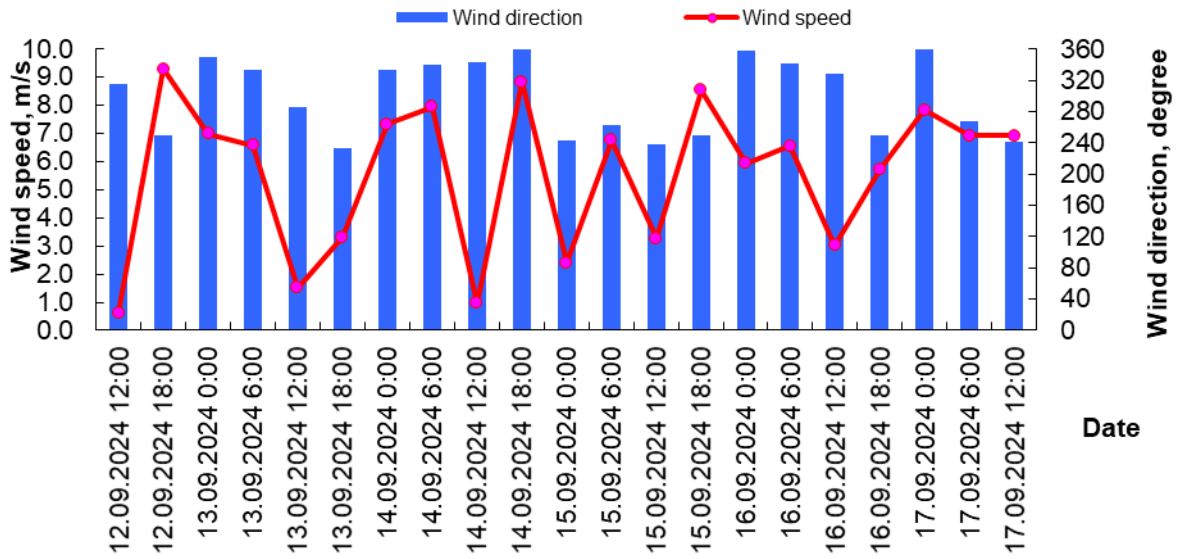


Wave condition in the Bautino Bay

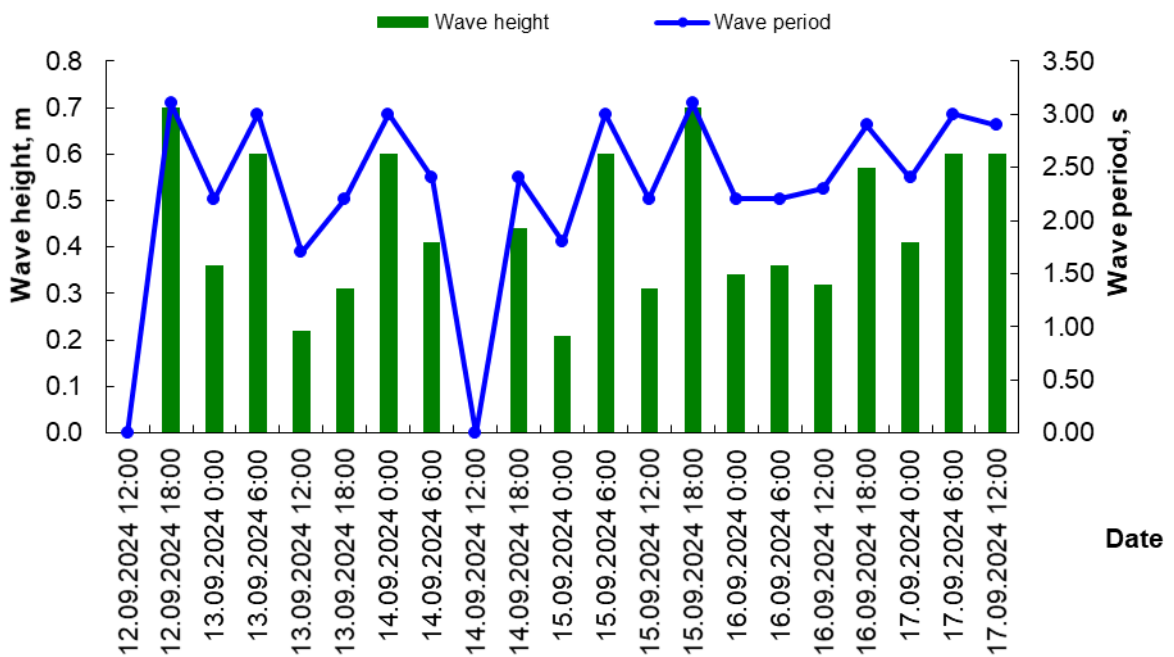


Date Time	Wind speed (WS) and wind direction (WD)		Wave height (H) and wave period (□)	
	WS, m/s	WD, rumb	H, m	t, s
12.09.2024 12:00	9	W	0.70	3.10
12.09.2024 18:00	8	W	0.60	3.00
13.09.2024 0:00	7	W	0.60	3.00
13.09.2024 6:00	7	N	0.30	2.20
13.09.2024 12:00	7	W	0.60	3.00
13.09.2024 18:00	6	W	0.50	2.90
14.09.2024 0:00	10	NW	0.80	3.20
14.09.2024 6:00	9	N	0.40	2.40
14.09.2024 12:00	8	W	0.60	3.00
14.09.2024 18:00	9	W	0.70	3.10
15.09.2024 0:00	1	S	0.00	0.00
15.09.2024 6:00	6	SW	0.50	2.80
15.09.2024 12:00	6	W	0.50	2.90
15.09.2024 18:00	7	W	0.60	3.00
16.09.2024 0:00	8	W	0.60	3.00
16.09.2024 6:00	7	N	0.30	2.20
16.09.2024 12:00	7	W	0.60	3.00
16.09.2024 18:00	9	W	0.70	3.10
17.09.2024 0:00	9	N	0.40	2.40
17.09.2024 6:00	9	N	0.40	2.40
17.09.2024 12:00	10	W	0.80	3.20

Wind condition in the Kuryik Bay



Wave condition in the Kuryik Bay



Date Time	Wind speed (WS) and wind direction (WD)		Wave height (H) and wave period (□)	
	WS, m/s	WD, rumb	H, m	t, s
12.09.2024 12:00	1	NW	0.00	0.00
12.09.2024 18:00	9	W	0.70	3.10
13.09.2024 0:00	7	N	0.36	2.20
13.09.2024 6:00	7	NW	0.60	3.00
13.09.2024 12:00	2	W	0.22	1.70
13.09.2024 18:00	3	SW	0.31	2.20
14.09.2024 0:00	7	NW	0.60	3.00
14.09.2024 6:00	8	N	0.41	2.40
14.09.2024 12:00	1	N	0.00	0.00
14.09.2024 18:00	9	N	0.44	2.40
15.09.2024 0:00	2	SW	0.21	1.80
15.09.2024 6:00	7	W	0.60	3.00
15.09.2024 12:00	3	SW	0.31	2.20
15.09.2024 18:00	9	W	0.70	3.10
16.09.2024 0:00	6	N	0.34	2.20
16.09.2024 6:00	7	N	0.36	2.20
16.09.2024 12:00	3	NW	0.32	2.30
16.09.2024 18:00	6	W	0.57	2.90
17.09.2024 0:00	8	N	0.41	2.40
17.09.2024 6:00	7	W	0.60	3.00
17.09.2024 12:00	7	SW	0.60	2.90

Made by: Zhagparova N.

Checked by: Shishkina G.