

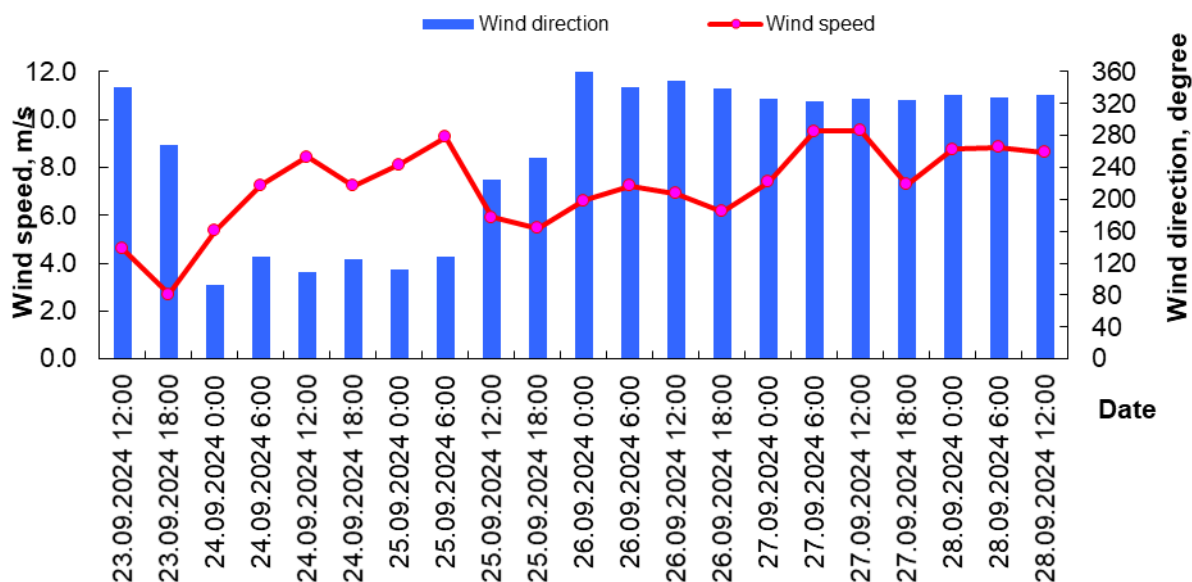


**MINISTRY OF ECOLOGY AND NATURAL RESOURCES  
OF THE REPUBLIC OF KAZAKHSTAN**

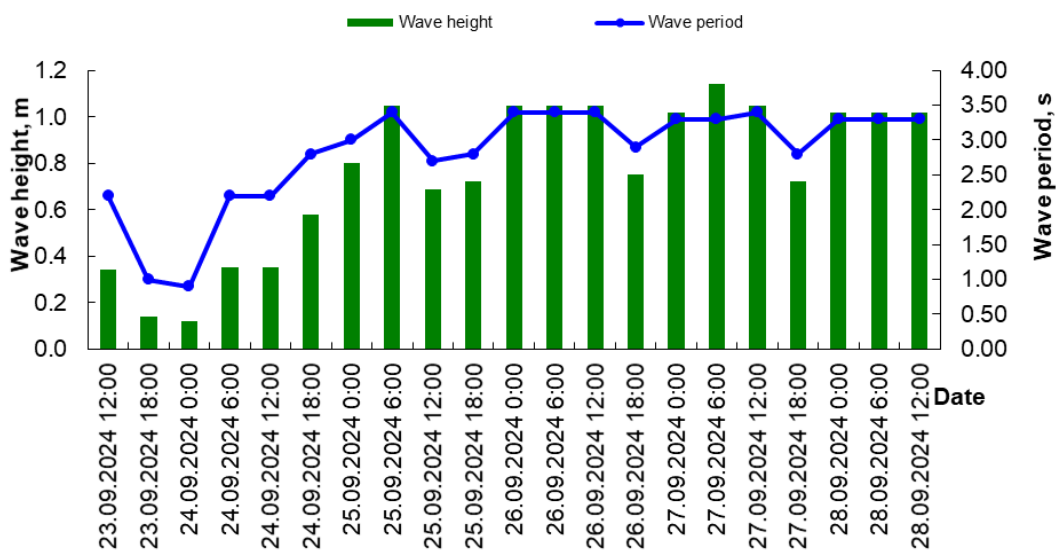
**RSE «KAZHYDROMET»**

**Wave and wind forecast for the Middle part of the Caspian Sea with a 5-day  
advance for the period September 23-28, 2024**

**Wind condition in the 21050 unit**

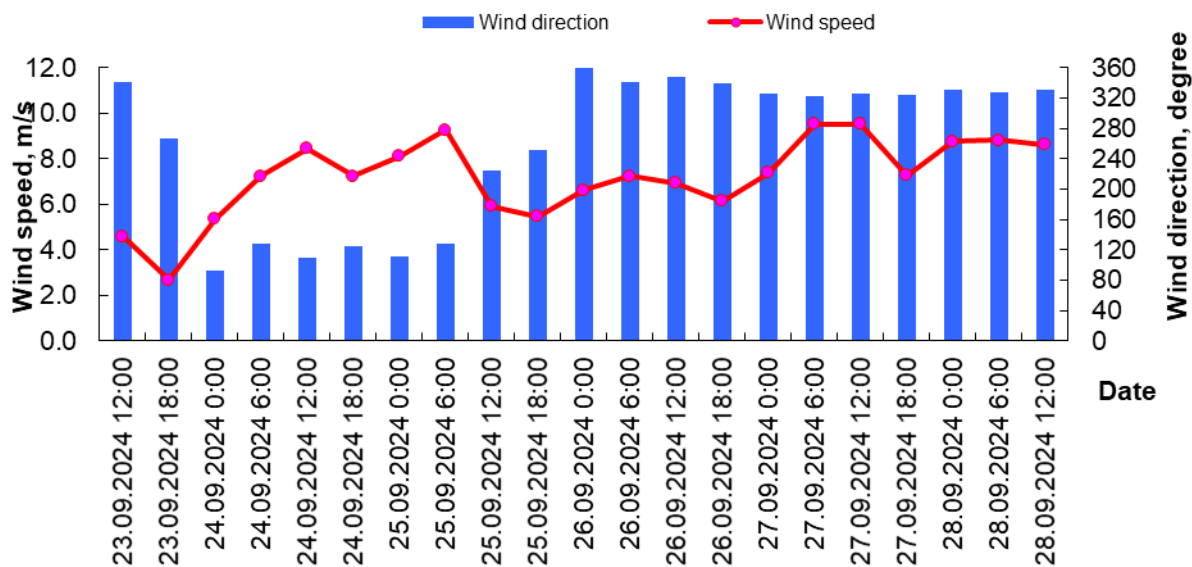


**Wave condition in the 21050 unit**

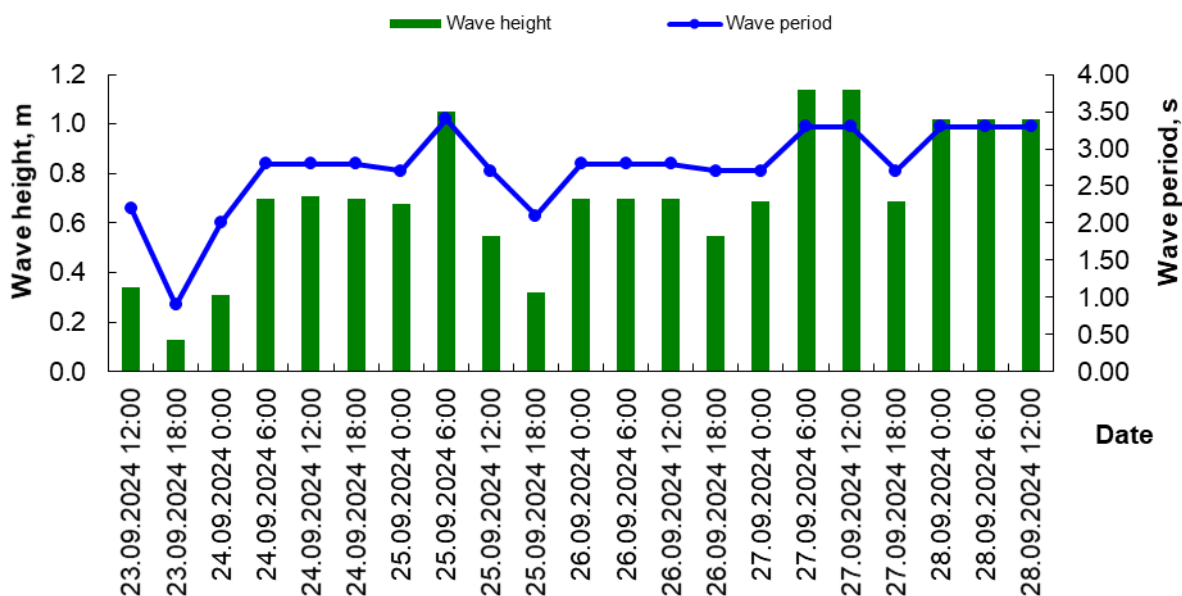


Date Time	Wind speed (WS) and wind direction (WD)		Wave height (H) and wave period ( $\tau$ )	
	WS, m/s	WD, rumb	H, m	t, s
23.09.2024 12:00	5	N	0.34	2.20
23.09.2024 18:00	3	W	0.14	1.00
24.09.2024 0:00	3	E	0.12	0.90
24.09.2024 6:00	5	SE	0.35	2.20
24.09.2024 12:00	5	E	0.35	2.20
24.09.2024 18:00	6	SE	0.58	2.80
25.09.2024 0:00	8	E	0.80	3.00
25.09.2024 6:00	9	SE	1.05	3.40
25.09.2024 12:00	7	SW	0.69	2.70
25.09.2024 18:00	8	W	0.72	2.80
26.09.2024 0:00	9	N	1.05	3.40
26.09.2024 6:00	9	N	1.05	3.40
26.09.2024 12:00	9	N	1.05	3.40
26.09.2024 18:00	8	N	0.75	2.90
27.09.2024 0:00	9	NW	1.02	3.30
27.09.2024 6:00	10	NW	1.14	3.30
27.09.2024 12:00	9	NW	1.05	3.40
27.09.2024 18:00	8	NW	0.72	2.80
28.09.2024 0:00	9	NW	1.02	3.30
28.09.2024 6:00	9	NW	1.02	3.30
28.09.2024 12:00	9	NW	1.02	3.30

### Wind condition in the 21141 unit

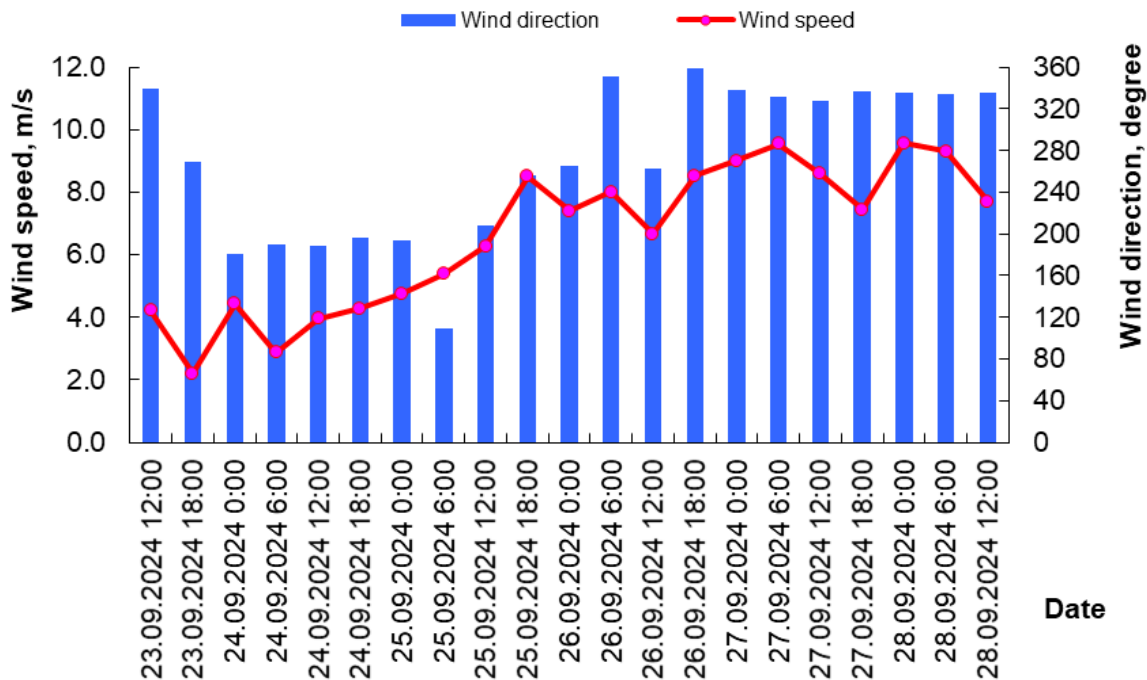


### Wave condition in the 21141 unit

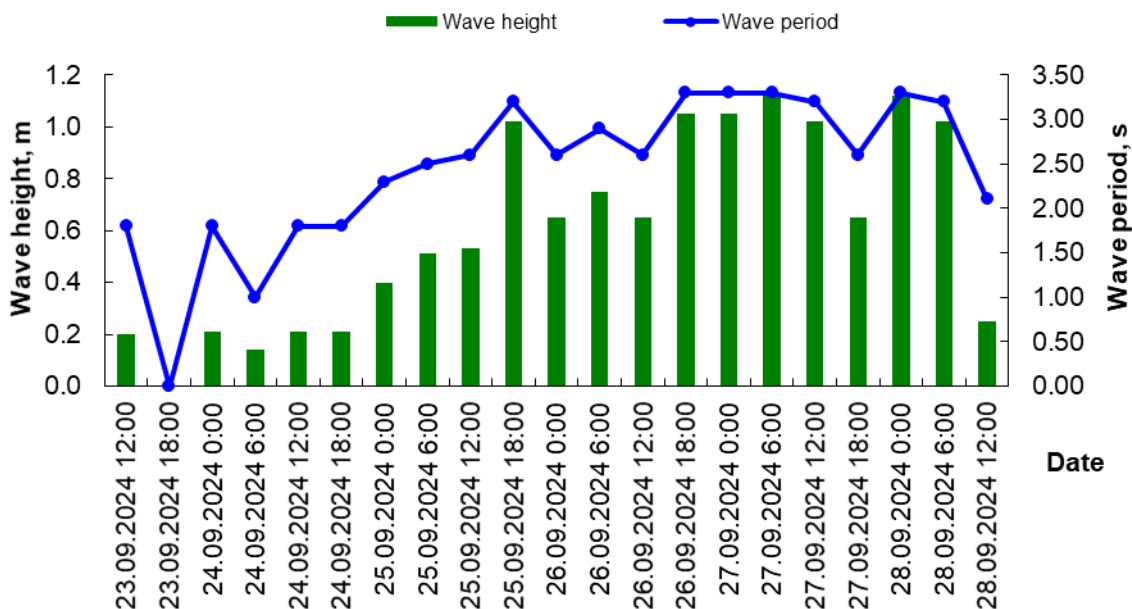


Date Time	Wind speed (WS) and wind direction (WD)		Wave height (H) and wave period ( $\tau$ )	
	WS, m/s	WD, rumb	H, m	t, s
23.09.2024 12:00	5	N	0.34	2.20
23.09.2024 18:00	3	W	0.13	0.90
24.09.2024 0:00	5	E	0.31	2.00
24.09.2024 6:00	7	SE	0.70	2.80
24.09.2024 12:00	8	E	0.71	2.80
24.09.2024 18:00	7	SE	0.70	2.80
25.09.2024 0:00	7	E	0.68	2.70
25.09.2024 6:00	9	SE	1.05	3.40
25.09.2024 12:00	6	SW	0.55	2.70
25.09.2024 18:00	5	W	0.32	2.10
26.09.2024 0:00	7	N	0.70	2.80
26.09.2024 6:00	7	N	0.70	2.80
26.09.2024 12:00	7	N	0.70	2.80
26.09.2024 18:00	6	N	0.55	2.70
27.09.2024 0:00	7	NW	0.69	2.70
27.09.2024 6:00	10	NW	1.14	3.30
27.09.2024 12:00	10	NW	1.14	3.30
27.09.2024 18:00	7	NW	0.69	2.70
28.09.2024 0:00	9	NW	1.02	3.30
28.09.2024 6:00	9	NW	1.02	3.30
28.09.2024 12:00	9	NW	1.02	3.30

### Wind condition in the 21142 unit

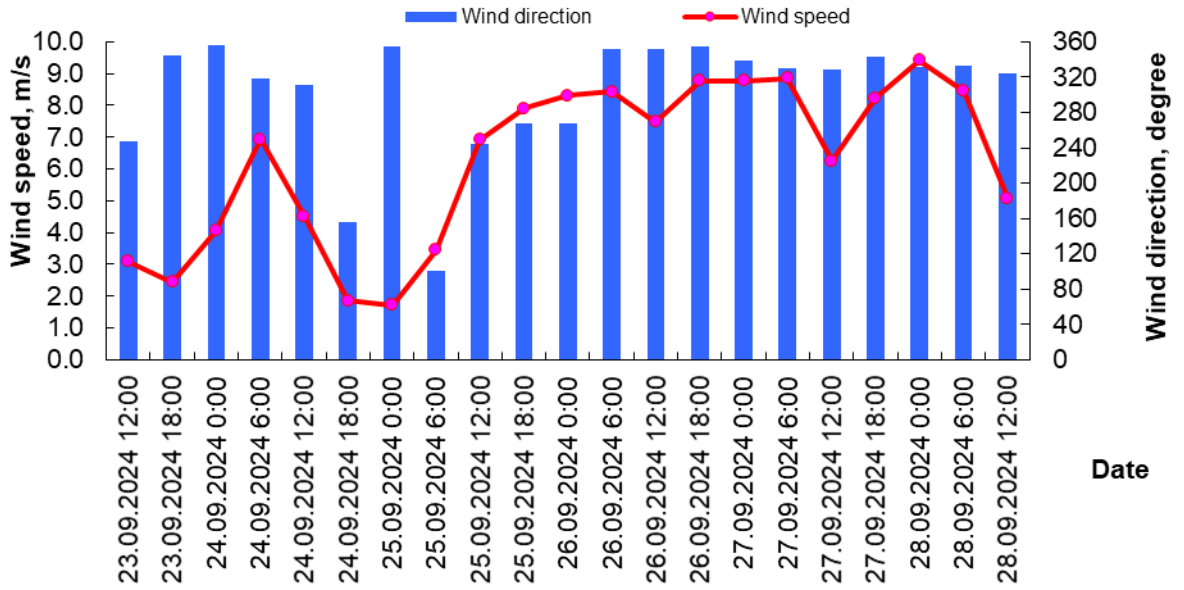


### Wave condition in the 21142 unit

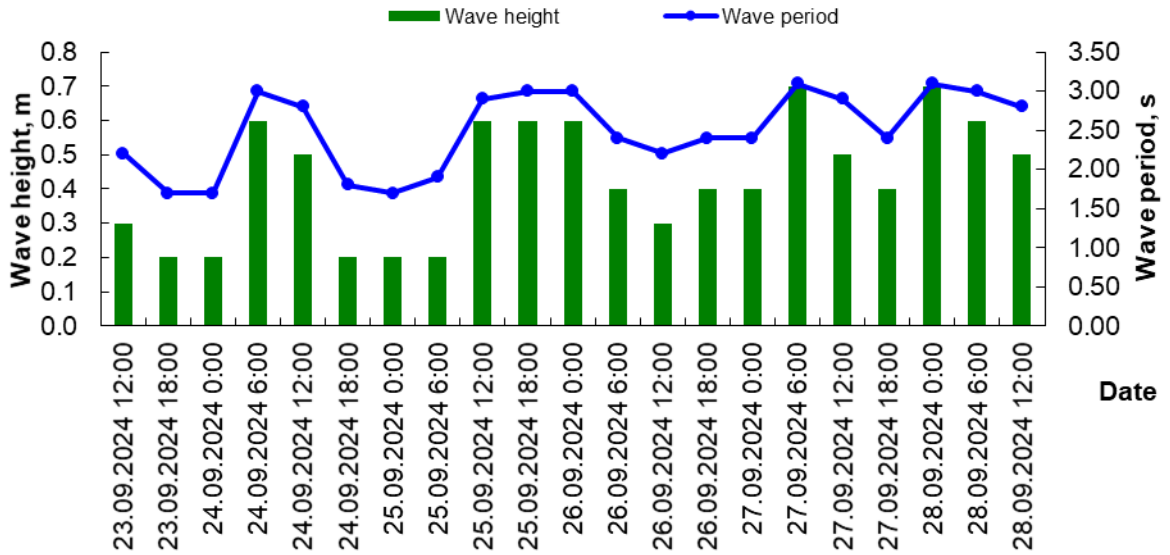


Date Time	Wind speed (WS) and wind direction (WD)		Wave height (H) and wave period ( $\tau$ )	
	WS, m/s	WD, rumb	H, m	t, s
23.09.2024 12:00	4	N	0.20	1.80
23.09.2024 18:00	2	W	0.00	0.00
24.09.2024 0:00	4	S	0.21	1.80
24.09.2024 6:00	3	S	0.14	1.00
24.09.2024 12:00	4	S	0.21	1.80
24.09.2024 18:00	4	S	0.21	1.80
25.09.2024 0:00	5	S	0.40	2.30
25.09.2024 6:00	6	E	0.51	2.50
25.09.2024 12:00	6	SW	0.53	2.60
25.09.2024 18:00	9	W	1.02	3.20
26.09.2024 0:00	7	W	0.65	2.60
26.09.2024 6:00	8	N	0.75	2.90
26.09.2024 12:00	7	W	0.65	2.60
26.09.2024 18:00	9	N	1.05	3.30
27.09.2024 0:00	9	N	1.05	3.30
27.09.2024 6:00	10	NW	1.12	3.30
27.09.2024 12:00	9	NW	1.02	3.20
27.09.2024 18:00	7	NW	0.65	2.60
28.09.2024 0:00	10	NW	1.12	3.30
28.09.2024 6:00	9	NW	1.02	3.20
28.09.2024 12:00	5	NW	0.25	2.10

### Wind condition in the Bautino Bay



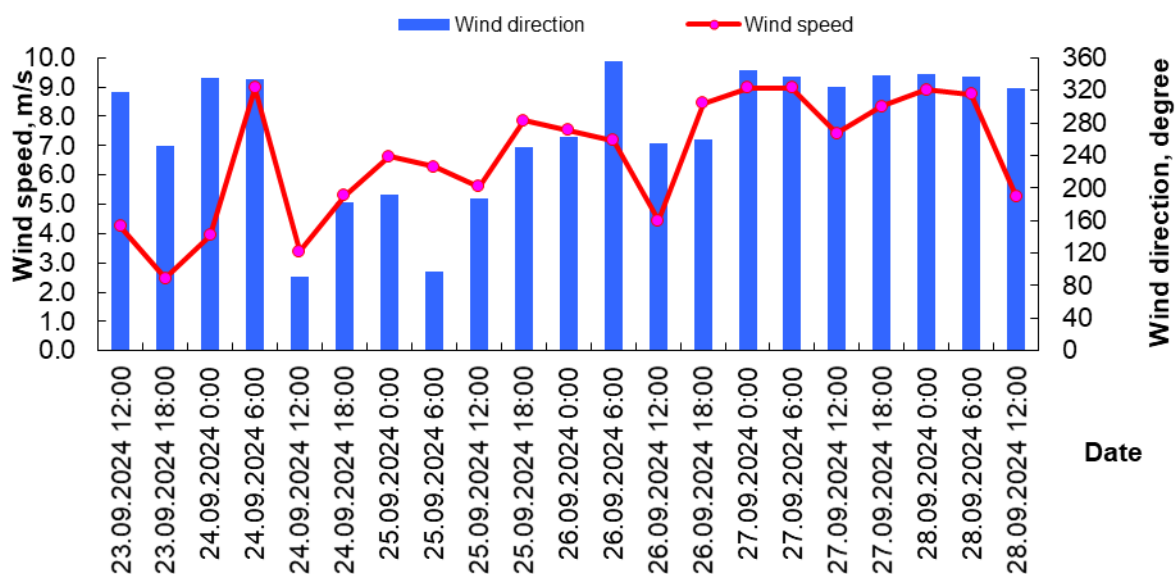
### Wave condition in the Bautino Bay



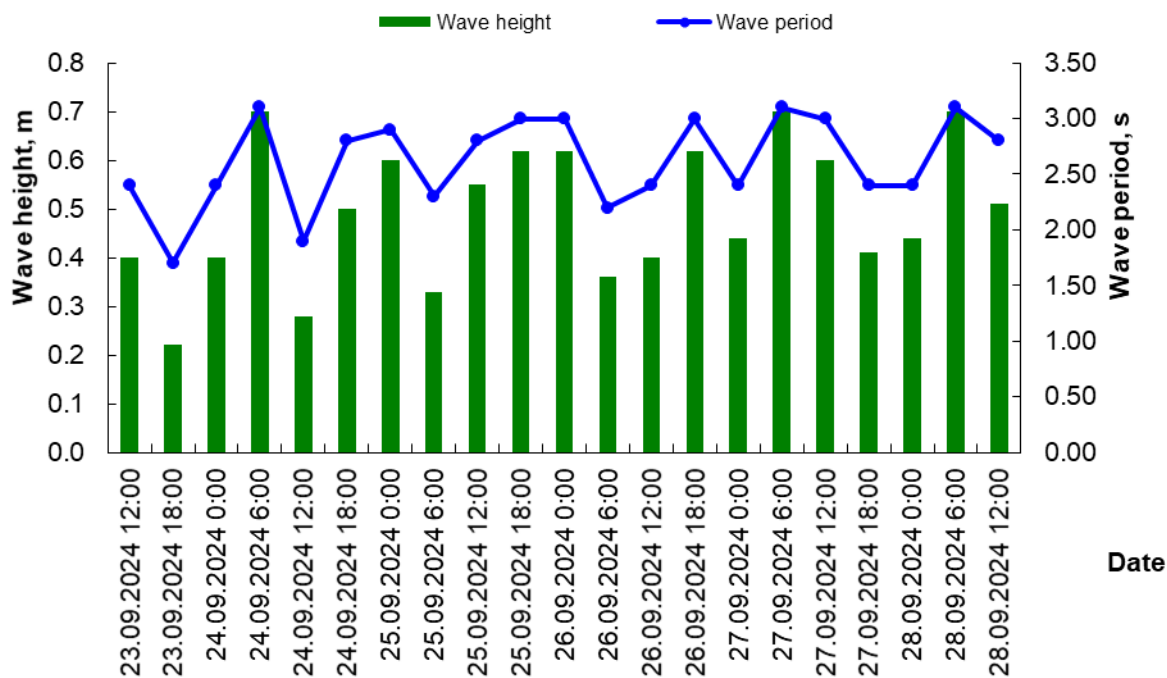
Date Time	Wind speed (WS) and wind direction (WD)		Wave height (H) and wave period ( $\tau$ )	
	WS, m/s	WD, rumb	H, m	t, s
23.09.2024 12:00	3	SW	0.30	2.20
23.09.2024 18:00	2	N	0.20	1.70
24.09.2024 0:00	4	N	0.20	1.70
24.09.2024 6:00	7	NW	0.60	3.00
24.09.2024 12:00	5	NW	0.50	2.80
24.09.2024 18:00	2	SE	0.20	1.80
25.09.2024 0:00	2	N	0.20	1.70
25.09.2024 6:00	3	E	0.20	1.90
25.09.2024 12:00	7	SW	0.60	2.90
25.09.2024 18:00	8	W	0.60	3.00
26.09.2024 0:00	8	W	0.60	3.00
26.09.2024 6:00	8	N	0.40	2.40
26.09.2024 12:00	7	N	0.30	2.20
26.09.2024 18:00	9	N	0.40	2.40
27.09.2024 0:00	9	N	0.40	2.40
27.09.2024 6:00	9	NW	0.70	3.10
27.09.2024 12:00	6	NW	0.50	2.90
27.09.2024 18:00	8	N	0.40	2.40
28.09.2024 0:00	9	NW	0.70	3.10
28.09.2024 6:00	8	NW	0.60	3.00
28.09.2024 12:00	5	NW	0.50	2.80



### 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 ( $\tau$ )	
	WS, m/s	WD, rumb	H, m	t, s
23.09.2024 12:00	4	NW	0.40	2.40
23.09.2024 18:00	2	W	0.22	1.70
24.09.2024 0:00	4	NW	0.40	2.40
24.09.2024 6:00	9	NW	0.70	3.10
24.09.2024 12:00	3	E	0.28	1.90
24.09.2024 18:00	5	S	0.50	2.80
25.09.2024 0:00	7	S	0.60	2.90
25.09.2024 6:00	6	E	0.33	2.30
25.09.2024 12:00	6	S	0.55	2.80
25.09.2024 18:00	8	W	0.62	3.00
26.09.2024 0:00	8	W	0.62	3.00
26.09.2024 6:00	7	N	0.36	2.20
26.09.2024 12:00	4	W	0.40	2.40
26.09.2024 18:00	8	W	0.62	3.00
27.09.2024 0:00	9	N	0.44	2.40
27.09.2024 6:00	9	NW	0.70	3.10
27.09.2024 12:00	7	NW	0.60	3.00
27.09.2024 18:00	8	N	0.41	2.40
28.09.2024 0:00	9	N	0.44	2.40
28.09.2024 6:00	9	NW	0.70	3.10
28.09.2024 12:00	5	NW	0.51	2.80

Made by: Zhagparova N.N.

Checked by: Shishkina G.