

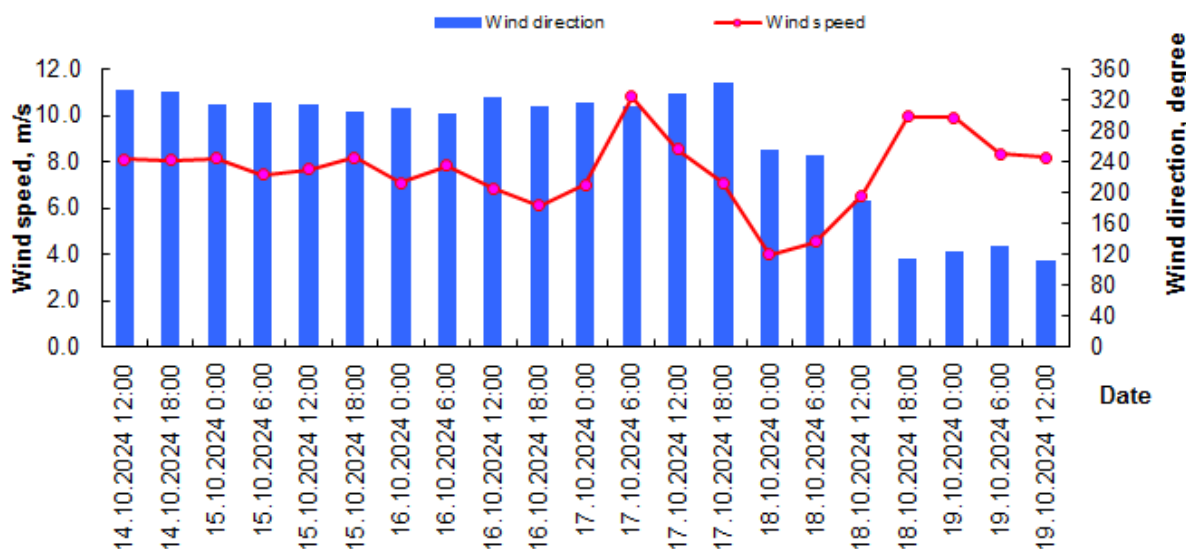


**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN**

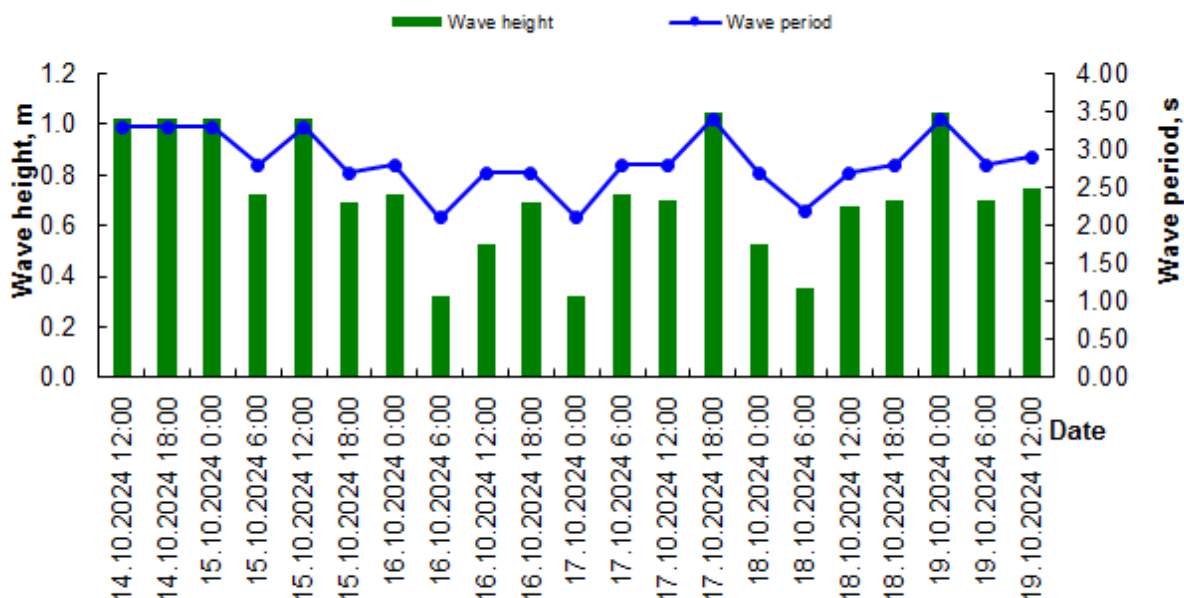
RSE «KAZHYDROMET»

**Wave and wind forecast for the Middle part of the Caspian Sea with a 5-day
advance for the period October 14-19, 2024**

Wind condition in the 21050 unit

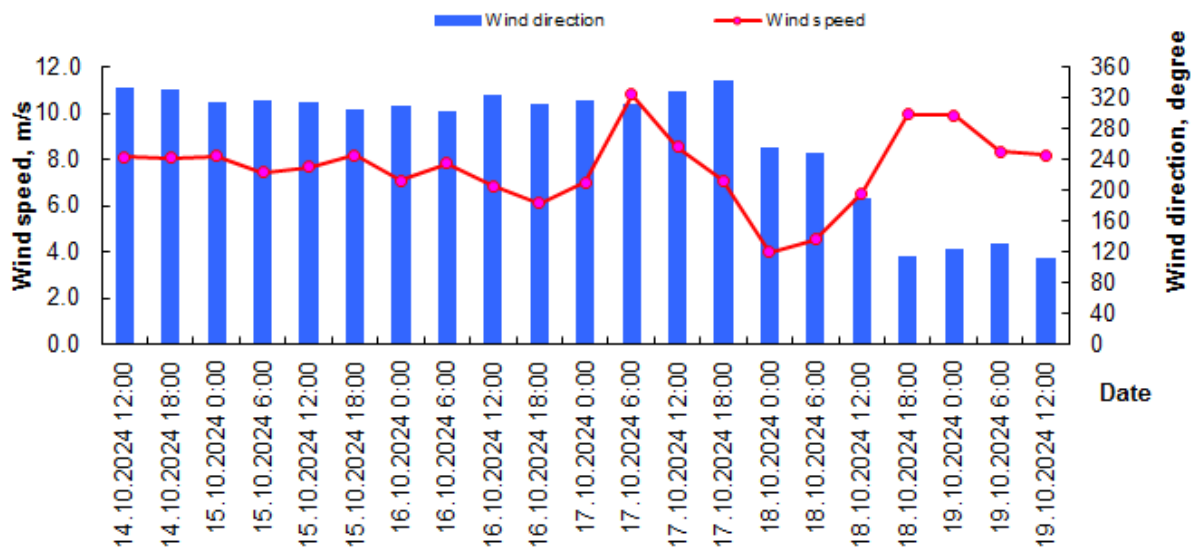


Wave condition in the 21050 unit

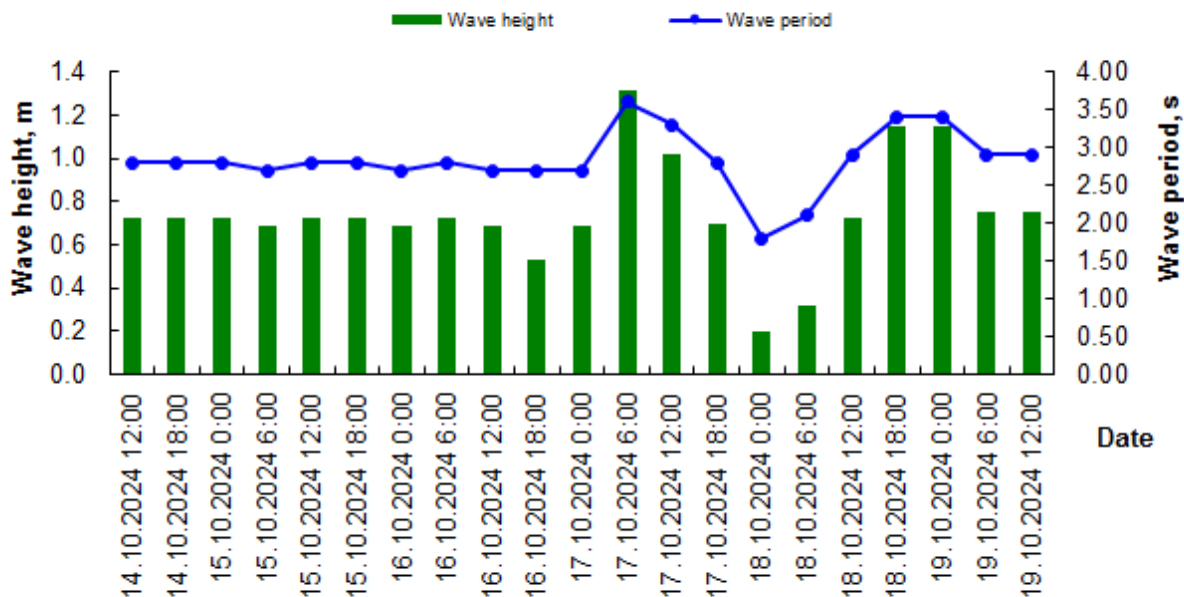


Date Time	Wind speed (WS) and wind direction (WD)		Wave height (H) and wave period (τ)	
	WS, m/s	WD, rumb	H, m	t, s
14.10.2024 12:00	9	NW	1.02	3.30
14.10.2024 18:00	9	NW	1.02	3.30
15.10.2024 0:00	9	NW	1.02	3.30
15.10.2024 6:00	8	NW	0.72	2.80
15.10.2024 12:00	9	NW	1.02	3.30
15.10.2024 18:00	7	NW	0.69	2.70
16.10.2024 0:00	8	NW	0.72	2.80
16.10.2024 6:00	5	NW	0.32	2.10
16.10.2024 12:00	6	NW	0.53	2.70
16.10.2024 18:00	7	NW	0.69	2.70
17.10.2024 0:00	5	NW	0.32	2.10
17.10.2024 6:00	8	NW	0.72	2.80
17.10.2024 12:00	7	NW	0.70	2.80
17.10.2024 18:00	9	N	1.05	3.40
18.10.2024 0:00	6	W	0.53	2.70
18.10.2024 6:00	5	W	0.35	2.20
18.10.2024 12:00	7	S	0.68	2.70
18.10.2024 18:00	7	SE	0.70	2.80
19.10.2024 0:00	9	SE	1.05	3.40
19.10.2024 6:00	7	SE	0.70	2.80
19.10.2024 12:00	8	SE	0.75	2.90

Wind condition in the 21141 unit

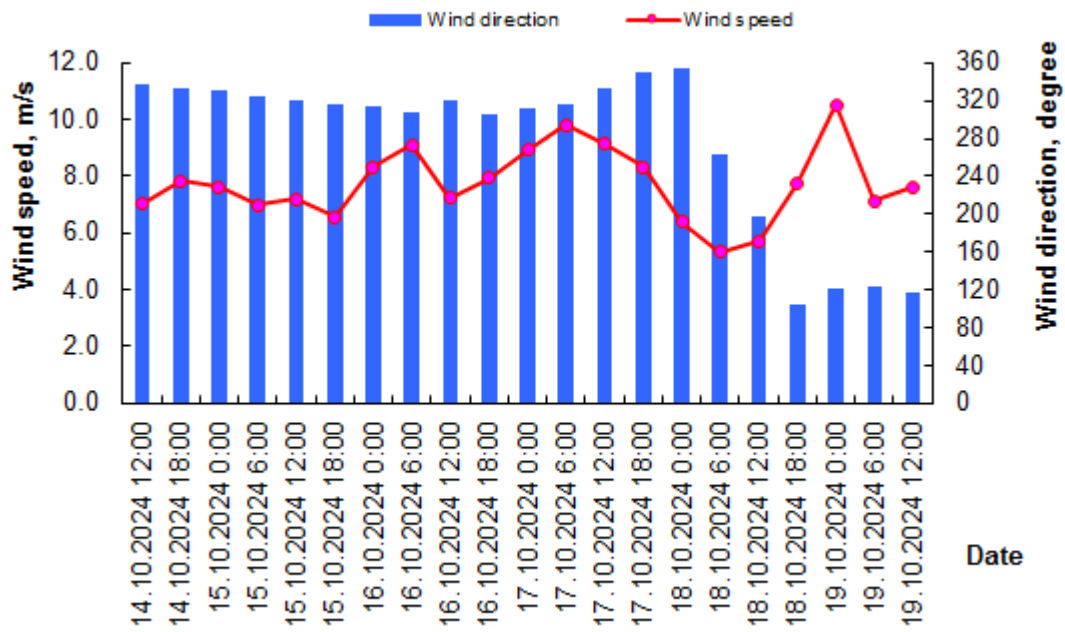


Wave condition in the 21141 unit

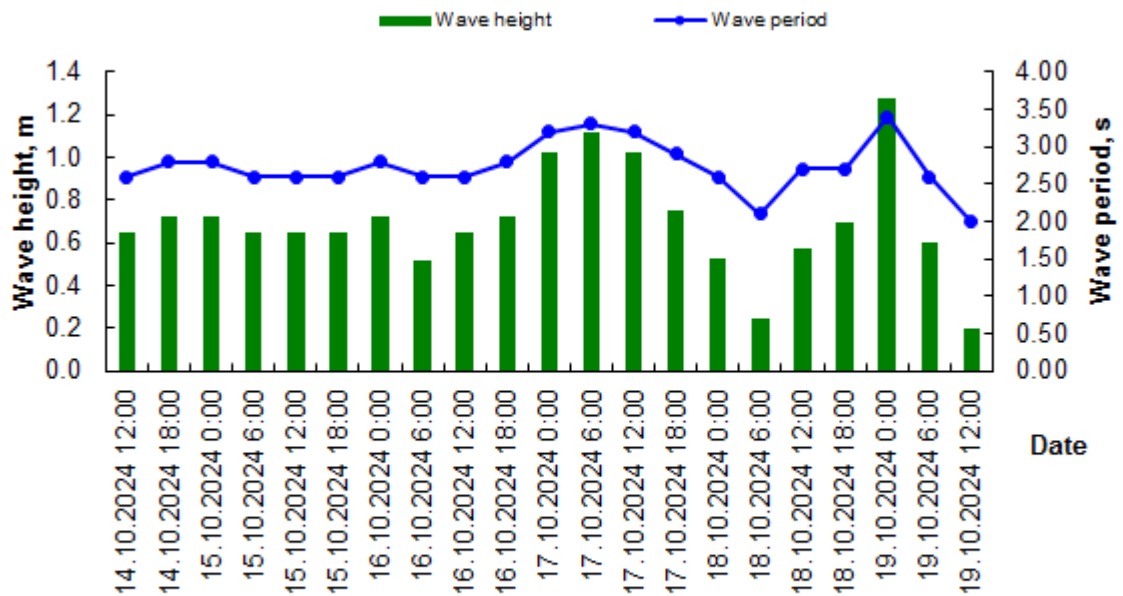


Date Time	Wind speed (WS) and wind direction (WD)		Wave height (H) and wave period (τ)	
	WS, m/s	WD, rumb	H, m	t, s
14.10.2024 12:00	8	NW	0.72	2.80
14.10.2024 18:00	8	NW	0.72	2.80
15.10.2024 0:00	8	NW	0.72	2.80
15.10.2024 6:00	7	NW	0.69	2.70
15.10.2024 12:00	8	NW	0.72	2.80
15.10.2024 18:00	8	NW	0.72	2.80
16.10.2024 0:00	7	NW	0.69	2.70
16.10.2024 6:00	8	NW	0.72	2.80
16.10.2024 12:00	7	NW	0.69	2.70
16.10.2024 18:00	6	NW	0.53	2.70
17.10.2024 0:00	7	NW	0.69	2.70
17.10.2024 6:00	11	NW	1.31	3.60
17.10.2024 12:00	9	NW	1.02	3.30
17.10.2024 18:00	7	N	0.70	2.80
18.10.2024 0:00	4	W	0.20	1.80
18.10.2024 6:00	5	W	0.32	2.10
18.10.2024 12:00	7	S	0.72	2.90
18.10.2024 18:00	10	SE	1.15	3.40
19.10.2024 0:00	10	SE	1.15	3.40
19.10.2024 6:00	8	SE	0.75	2.90
19.10.2024 12:00	8	SE	0.75	2.90

Wind condition in the 21142 unit

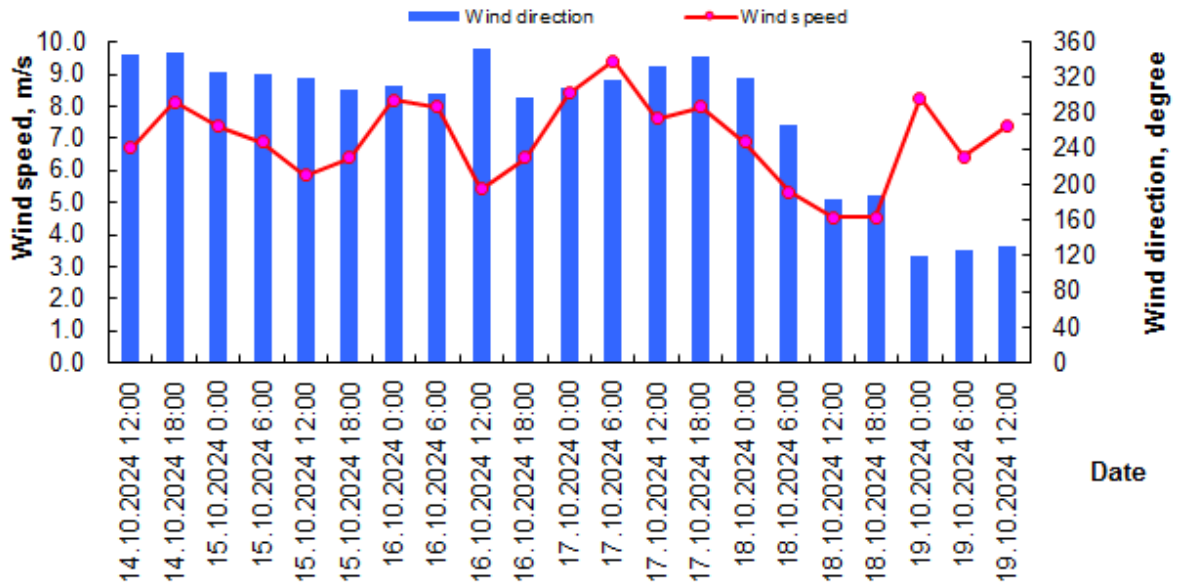


Wave condition in the 21142 unit

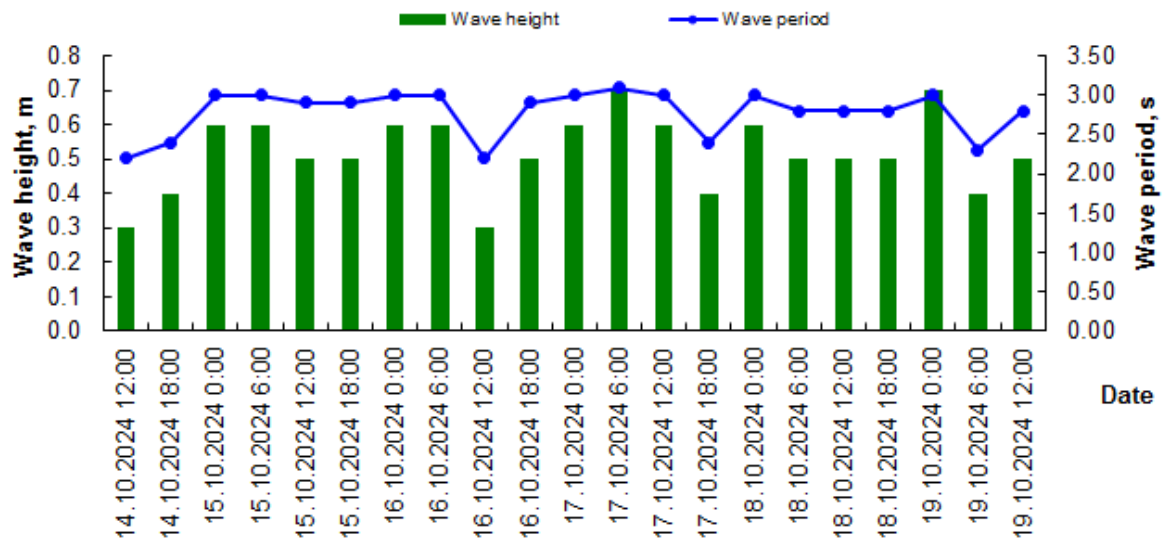


Date Time	Wind speed (WS) and wind direction (WD)		Wave height (H) and wave period (τ)	
	WS, m/s	WD, rumb	H, m	t, s
14.10.2024 12:00	7	NW	0.65	2.60
14.10.2024 18:00	8	NW	0.72	2.80
15.10.2024 0:00	8	NW	0.72	2.80
15.10.2024 6:00	7	NW	0.65	2.60
15.10.2024 12:00	7	NW	0.65	2.60
15.10.2024 18:00	7	NW	0.65	2.60
16.10.2024 0:00	8	NW	0.72	2.80
16.10.2024 6:00	6	NW	0.52	2.60
16.10.2024 12:00	7	NW	0.65	2.60
16.10.2024 18:00	8	NW	0.72	2.80
17.10.2024 0:00	9	NW	1.02	3.20
17.10.2024 6:00	10	NW	1.12	3.30
17.10.2024 12:00	9	NW	1.02	3.20
17.10.2024 18:00	8	N	0.75	2.90
18.10.2024 0:00	6	N	0.53	2.60
18.10.2024 6:00	5	W	0.25	2.10
18.10.2024 12:00	6	S	0.57	2.70
18.10.2024 18:00	8	E	0.70	2.70
19.10.2024 0:00	11	SE	1.28	3.40
19.10.2024 6:00	7	SE	0.60	2.60
19.10.2024 12:00	5	SE	0.20	2.00

Wind condition in the Bautino Bay

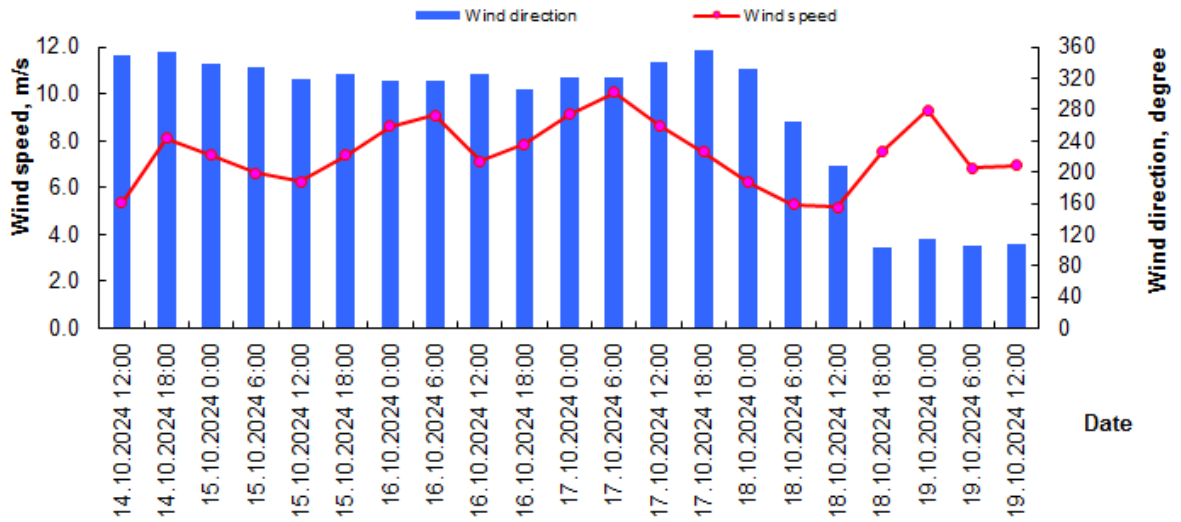


Wave condition in the Bautino Bay

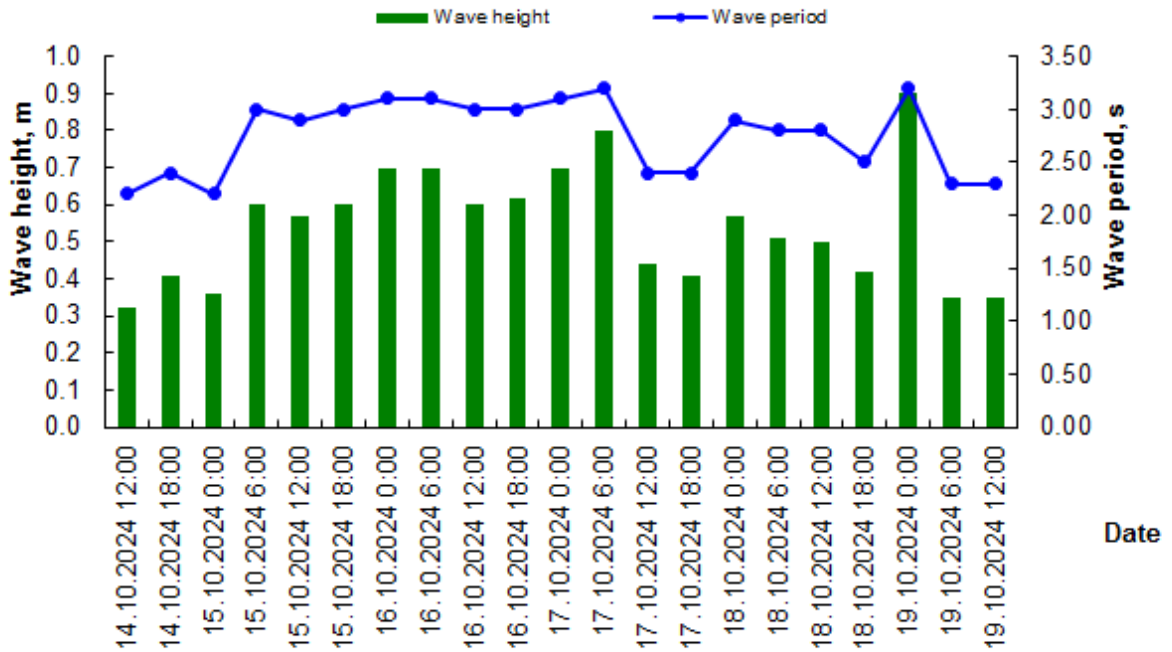


Date Time	Wind speed (WS) and wind direction (WD)		Wave height (H) and wave period (τ)	
	WS, m/s	WD, rumb	H, m	t, s
14.10.2024 12:00	7	N	0.30	2.20
14.10.2024 18:00	8	N	0.40	2.40
15.10.2024 0:00	7	NW	0.60	3.00
15.10.2024 6:00	7	NW	0.60	3.00
15.10.2024 12:00	6	NW	0.50	2.90
15.10.2024 18:00	6	NW	0.50	2.90
16.10.2024 0:00	8	NW	0.60	3.00
16.10.2024 6:00	8	NW	0.60	3.00
16.10.2024 12:00	5	N	0.30	2.20
16.10.2024 18:00	6	NW	0.50	2.90
17.10.2024 0:00	8	NW	0.60	3.00
17.10.2024 6:00	9	NW	0.70	3.10
17.10.2024 12:00	8	NW	0.60	3.00
17.10.2024 18:00	8	N	0.40	2.40
18.10.2024 0:00	7	NW	0.60	3.00
18.10.2024 6:00	5	W	0.50	2.80
18.10.2024 12:00	5	S	0.50	2.80
18.10.2024 18:00	5	S	0.50	2.80
19.10.2024 0:00	8	SE	0.70	3.00
19.10.2024 6:00	6	SE	0.40	2.30
19.10.2024 12:00	7	SE	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 (τ)	
	WS, m/s	WD, rumb	H, m	t, s
14.10.2024 12:00	5	N	0.32	2.20
14.10.2024 18:00	8	N	0.41	2.40
15.10.2024 0:00	7	N	0.36	2.20
15.10.2024 6:00	7	NW	0.60	3.00
15.10.2024 12:00	6	NW	0.57	2.90
15.10.2024 18:00	7	NW	0.60	3.00
16.10.2024 0:00	9	NW	0.70	3.10
16.10.2024 6:00	9	NW	0.70	3.10
16.10.2024 12:00	7	NW	0.60	3.00
16.10.2024 18:00	8	NW	0.62	3.00
17.10.2024 0:00	9	NW	0.70	3.10
17.10.2024 6:00	10	NW	0.80	3.20
17.10.2024 12:00	9	N	0.44	2.40
17.10.2024 18:00	8	N	0.41	2.40
18.10.2024 0:00	6	NW	0.57	2.90
18.10.2024 6:00	5	W	0.51	2.80
18.10.2024 12:00	5	SW	0.50	2.80
18.10.2024 18:00	8	E	0.42	2.50
19.10.2024 0:00	9	SE	0.90	3.20
19.10.2024 6:00	7	E	0.35	2.30
19.10.2024 12:00	7	E	0.35	2.30

Made by: Shishkina G.

Checked by: Shishkina G.