

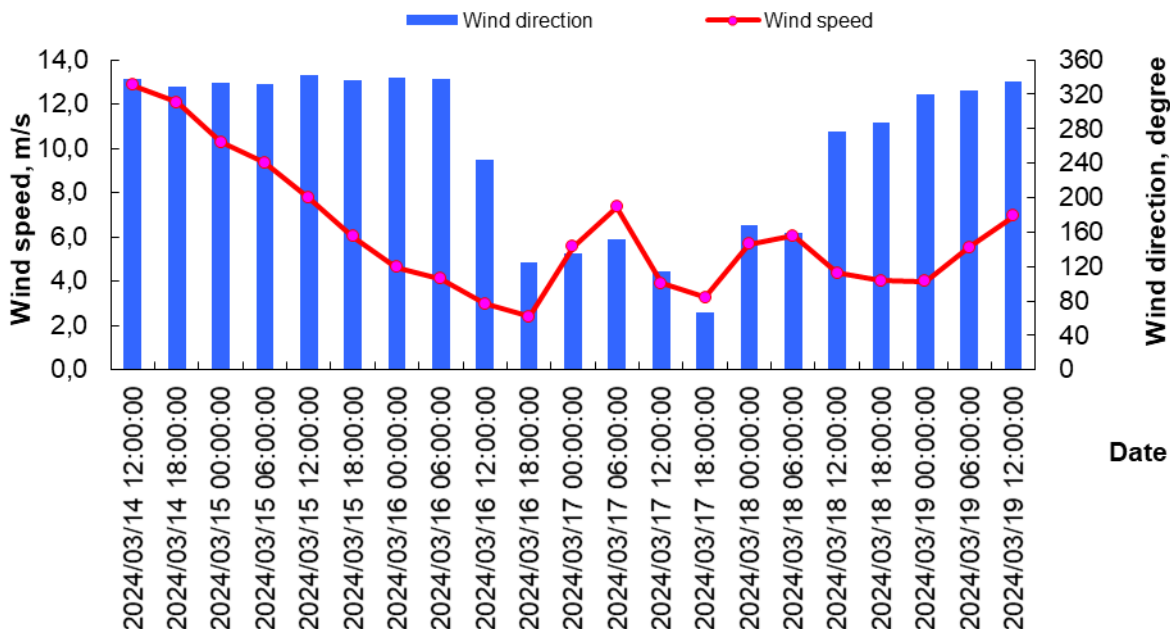


**MINISTRY OF ECOLOGY AND NATURAL RESOURCES OF THE  
REPUBLIC OF KAZAKHSTAN**

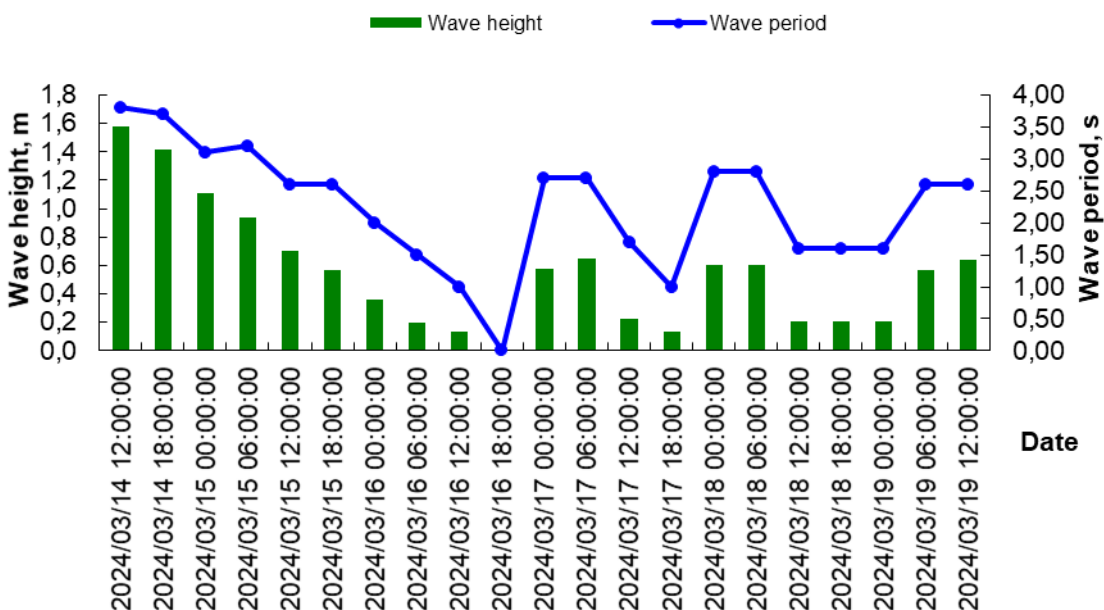
**REPUBLIC STATE-OWNED ENTERPRISE «KAZHYDROMET»**

**Forecast of the wave and wind condition for Middle part of the Caspian Sea  
Probability – 5 days, period 14 – 19 March 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
2024/03/14 12:00:00	13	N	1,58	3,80
2024/03/14 18:00:00	12	NW	1,42	3,70
2024/03/15 00:00:00	10	NW	1,11	3,10
2024/03/15 06:00:00	9	NW	0,94	3,20
2024/03/15 12:00:00	8	N	0,70	2,60
2024/03/15 18:00:00	6	NW	0,57	2,60
2024/03/16 00:00:00	5	N	0,36	2,00
2024/03/16 06:00:00	4	N	0,20	1,50
2024/03/16 12:00:00	3	SW	0,13	1,00
2024/03/16 18:00:00	2	SE	0,00	0,00
2024/03/17 00:00:00	6	SE	0,58	2,70
2024/03/17 06:00:00	7	SE	0,65	2,70
2024/03/17 12:00:00	4	SE	0,22	1,70
2024/03/17 18:00:00	3	NE	0,13	1,00
2024/03/18 00:00:00	6	S	0,60	2,80
2024/03/18 06:00:00	6	S	0,60	2,80
2024/03/18 12:00:00	4	W	0,21	1,60
2024/03/18 18:00:00	4	W	0,21	1,60
2024/03/19 00:00:00	4	NW	0,21	1,60
2024/03/19 06:00:00	6	NW	0,57	2,60
2024/03/19 12:00:00	7	NW	0,64	2,60

Made by: Zhagparoava N.N.

Checked by: Yeltay A.

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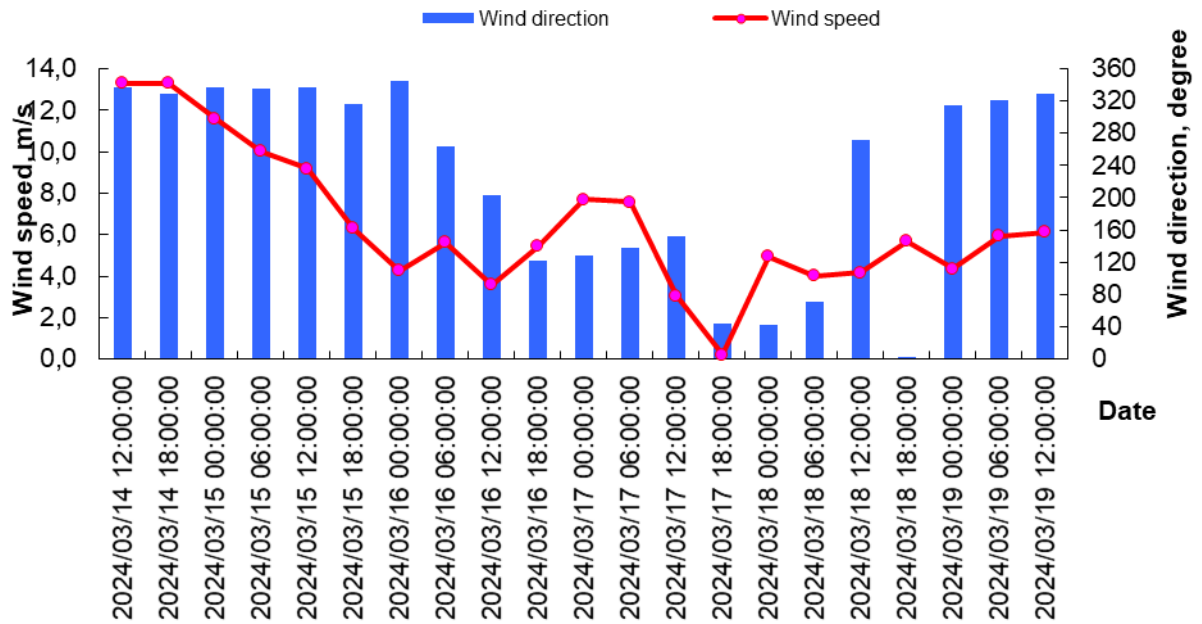


MINISTRY OF ECOLOGY AND NATURAL RESOURCES OF THE  
REPUBLIC OF KAZAKHSTAN

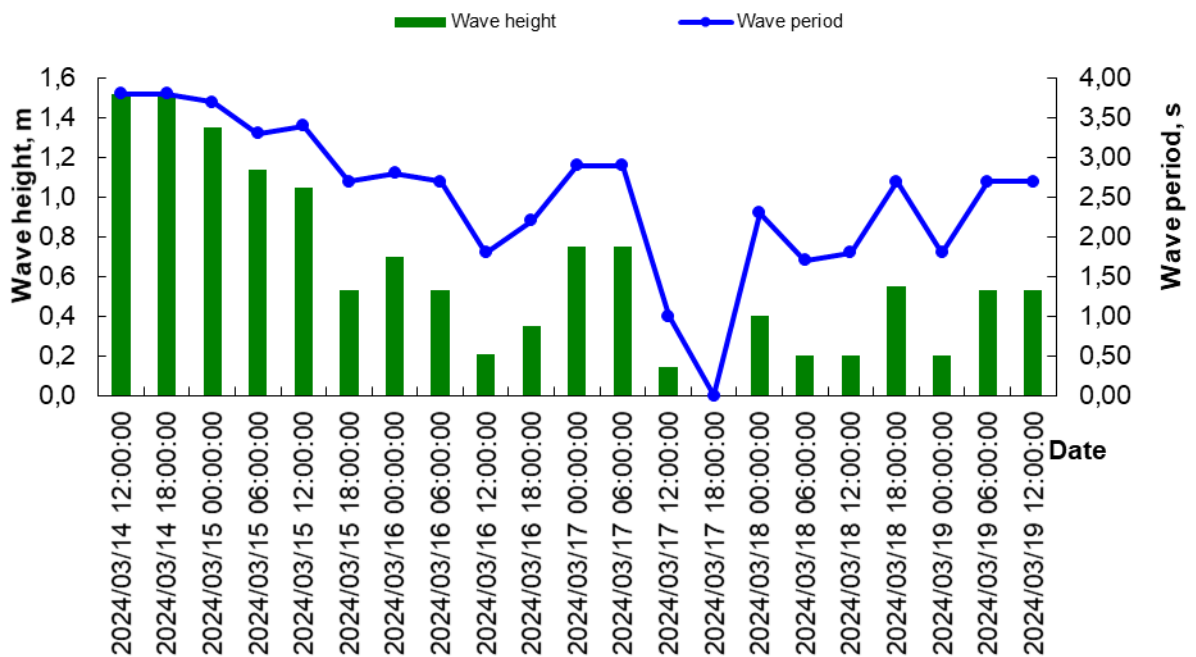
REPUBLIC STATE-OWNED ENTERPRISE «KAZHYDROMET»

Forecast of the wave and wind condition for Middle part of the Caspian Sea  
Probability – 5 days, period 14 – 19 March 2024.

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
2024/03/14 12:00:00	13	NW	1,52	3,80
2024/03/14 18:00:00	13	NW	1,52	3,80
2024/03/15 00:00:00	12	NW	1,35	3,70
2024/03/15 06:00:00	10	NW	1,14	3,30
2024/03/15 12:00:00	9	N	1,05	3,40
2024/03/15 18:00:00	6	NW	0,53	2,70
2024/03/16 00:00:00	7	N	0,70	2,80
2024/03/16 06:00:00	6	W	0,53	2,70
2024/03/16 12:00:00	4	SW	0,21	1,80
2024/03/16 18:00:00	5	SE	0,35	2,20
2024/03/17 00:00:00	8	SE	0,75	2,90
2024/03/17 06:00:00	8	SE	0,75	2,90
2024/03/17 12:00:00	3	SE	0,14	1,00
2024/03/17 18:00:00	0	NE	0,00	0,00
2024/03/18 00:00:00	5	NE	0,40	2,30
2024/03/18 06:00:00	4	E	0,20	1,70
2024/03/18 12:00:00	4	W	0,20	1,80
2024/03/18 18:00:00	6	N	0,55	2,70
2024/03/19 00:00:00	4	NW	0,20	1,80
2024/03/19 06:00:00	6	NW	0,53	2,70
2024/03/19 12:00:00	6	NW	0,53	2,70

Made by: Zhagparova N.N.

Checked by: Yeltay A.

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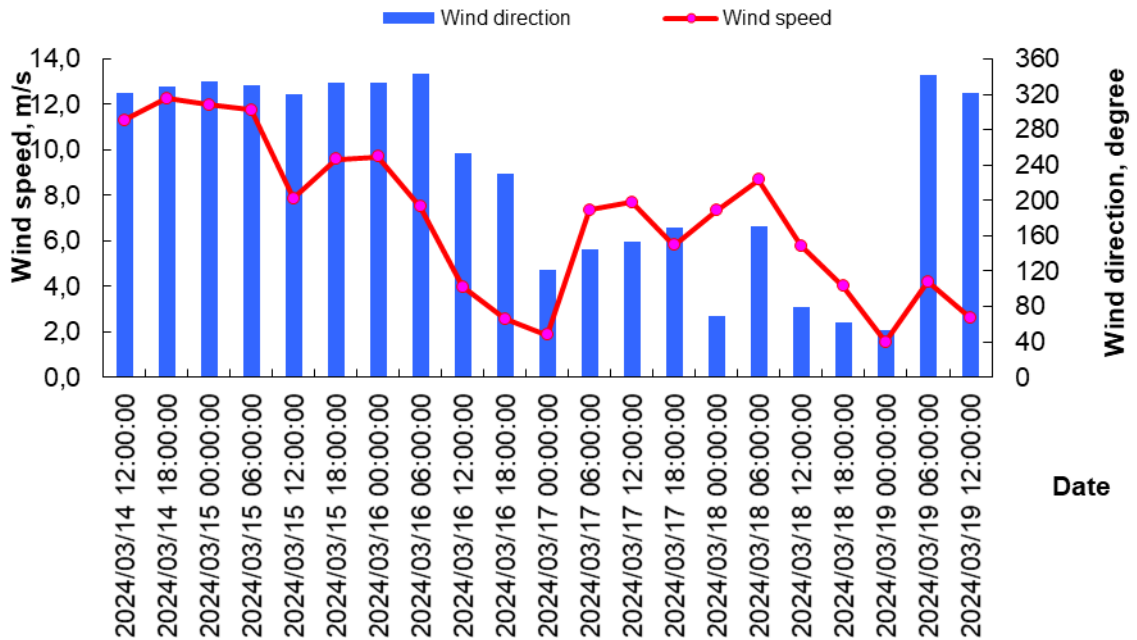


MINISTRY OF ECOLOGY AND NATURAL RESOURCES OF THE  
REPUBLIC OF KAZAKHSTAN

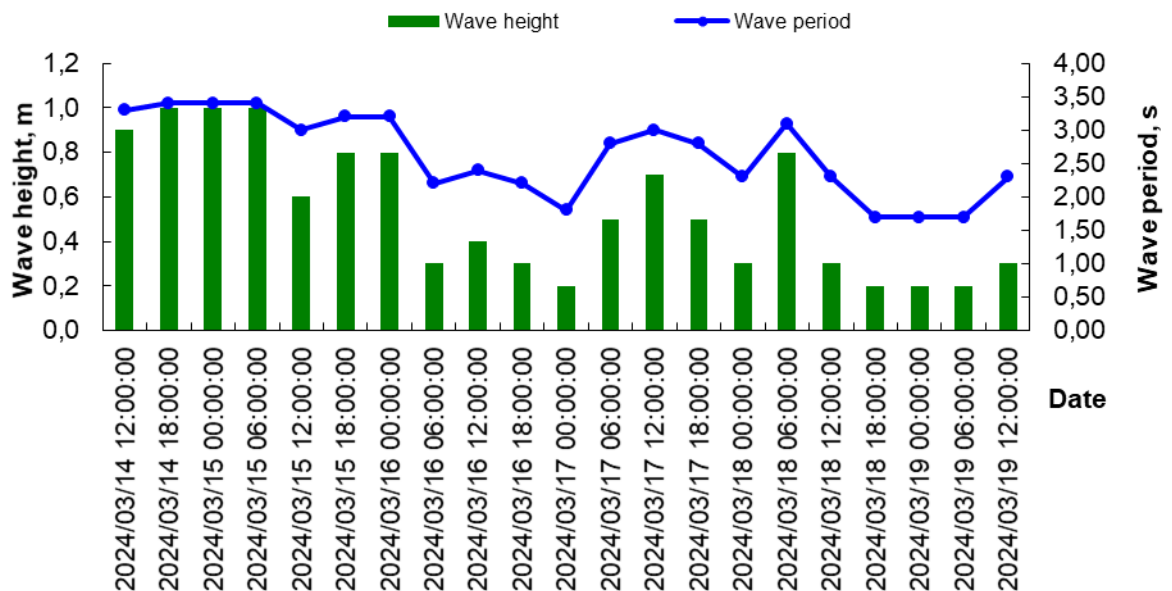
REPUBLIC STATE-OWNED ENTERPRISE «KAZHYDROMET»

Forecast of the wave and wind condition for Middle part of the Caspian Sea  
Probability – 5 days, period 14 – 19 March 2024.

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
2024/03/14 12:00:00	11	NW	0,90	3,30
2024/03/14 18:00:00	12	NW	1,00	3,40
2024/03/15 00:00:00	12	NW	1,00	3,40
2024/03/15 06:00:00	12	NW	1,00	3,40
2024/03/15 12:00:00	8	NW	0,60	3,00
2024/03/15 18:00:00	10	NW	0,80	3,20
2024/03/16 00:00:00	10	NW	0,80	3,20
2024/03/16 06:00:00	7	N	0,30	2,20
2024/03/16 12:00:00	4	W	0,40	2,40
2024/03/16 18:00:00	3	SW	0,30	2,20
2024/03/17 00:00:00	2	SE	0,20	1,80
2024/03/17 06:00:00	7	SE	0,50	2,80
2024/03/17 12:00:00	8	SE	0,70	3,00
2024/03/17 18:00:00	6	S	0,50	2,80
2024/03/18 00:00:00	7	E	0,30	2,30
2024/03/18 06:00:00	9	S	0,80	3,10
2024/03/18 12:00:00	6	E	0,30	2,30
2024/03/18 18:00:00	4	NE	0,20	1,70
2024/03/19 00:00:00	2	NE	0,20	1,70
2024/03/19 06:00:00	4	N	0,20	1,70
2024/03/19 12:00:00	3	NW	0,30	2,30

Made by: Zhagparova N.N.

Checked by: Yeltay A.

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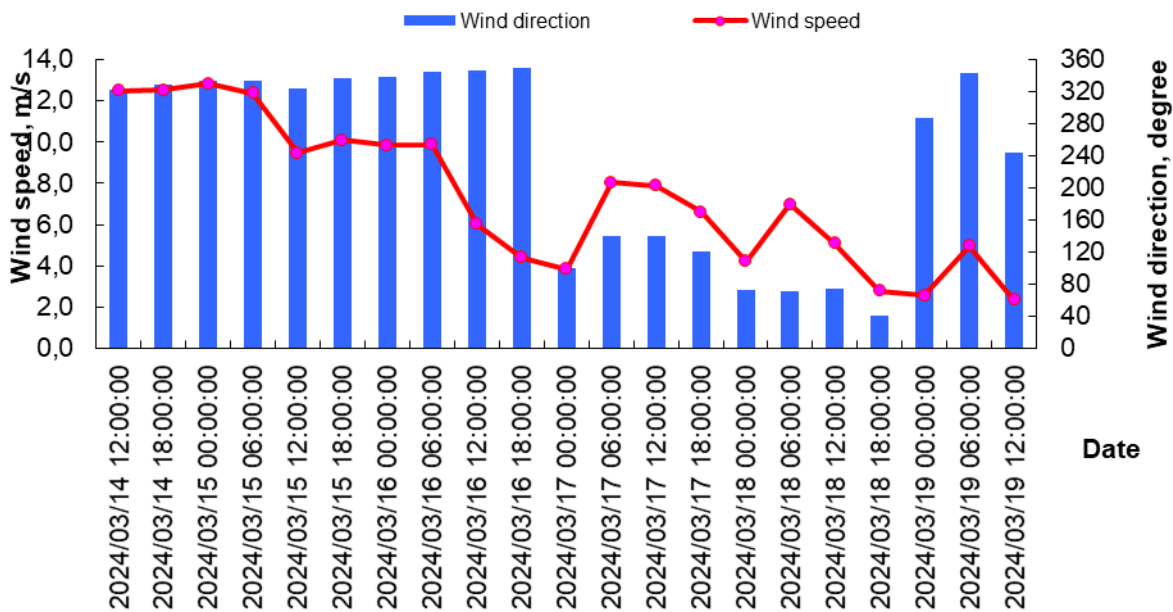


MINISTRY OF ECOLOGY AND NATURAL RESOURCES OF THE  
REPUBLIC OF KAZAKHSTAN

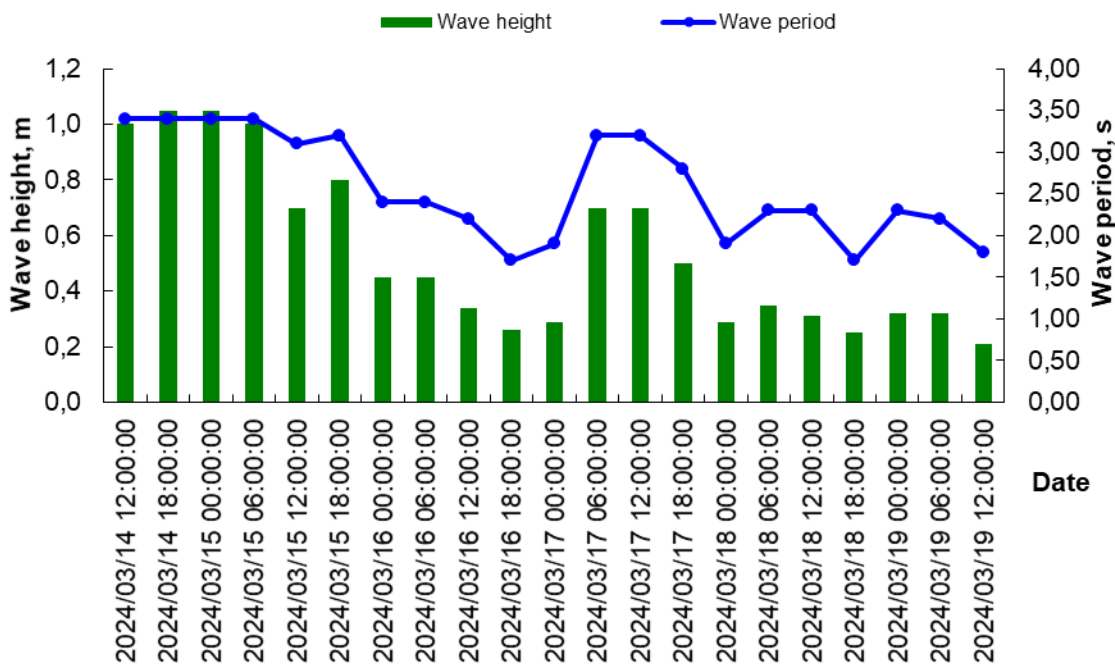
REPUBLIC STATE-OWNED ENTERPRISE «KAZHYDROMET»

Forecast of the wave and wind condition for Middle part of the Caspian Sea  
Probability – 5 days, period 14 – 19 March 2024.

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
2024/03/14 12:00:00	12	NW	1,00	3,40
2024/03/14 18:00:00	13	NW	1,05	3,40
2024/03/15 00:00:00	13	NW	1,05	3,40
2024/03/15 06:00:00	12	NW	1,00	3,40
2024/03/15 12:00:00	9	NW	0,70	3,10
2024/03/15 18:00:00	10	NW	0,80	3,20
2024/03/16 00:00:00	10	N	0,45	2,40
2024/03/16 06:00:00	10	N	0,45	2,40
2024/03/16 12:00:00	6	N	0,34	2,20
2024/03/16 18:00:00	4	N	0,26	1,70
2024/03/17 00:00:00	4	E	0,29	1,90
2024/03/17 06:00:00	8	SE	0,70	3,20
2024/03/17 12:00:00	8	SE	0,70	3,20
2024/03/17 18:00:00	7	SE	0,50	2,80
2024/03/18 00:00:00	4	E	0,29	1,90
2024/03/18 06:00:00	7	E	0,35	2,30
2024/03/18 12:00:00	5	E	0,31	2,30
2024/03/18 18:00:00	3	NE	0,25	1,70
2024/03/19 00:00:00	3	W	0,32	2,30
2024/03/19 06:00:00	5	N	0,32	2,20
2024/03/19 12:00:00	2	SW	0,21	1,80

Made by: Zhagparova N.N.

Checked by: Yeltay A.

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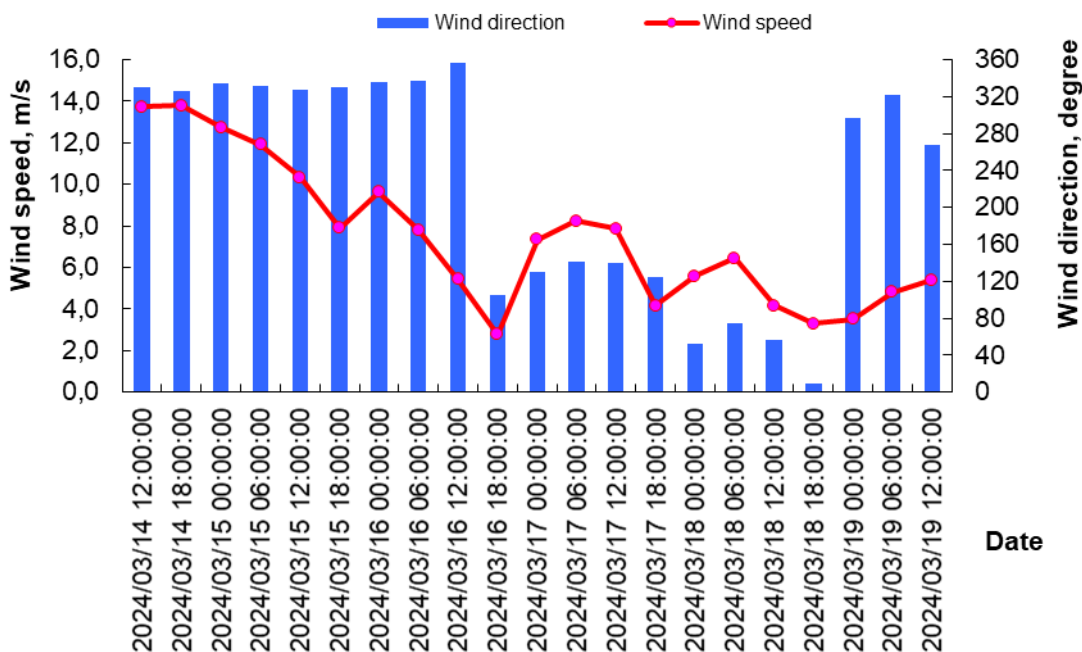


**MINISTRY OF ECOLOGY AND NATURAL RESOURCES OF THE  
REPUBLIC OF KAZAKHSTAN**

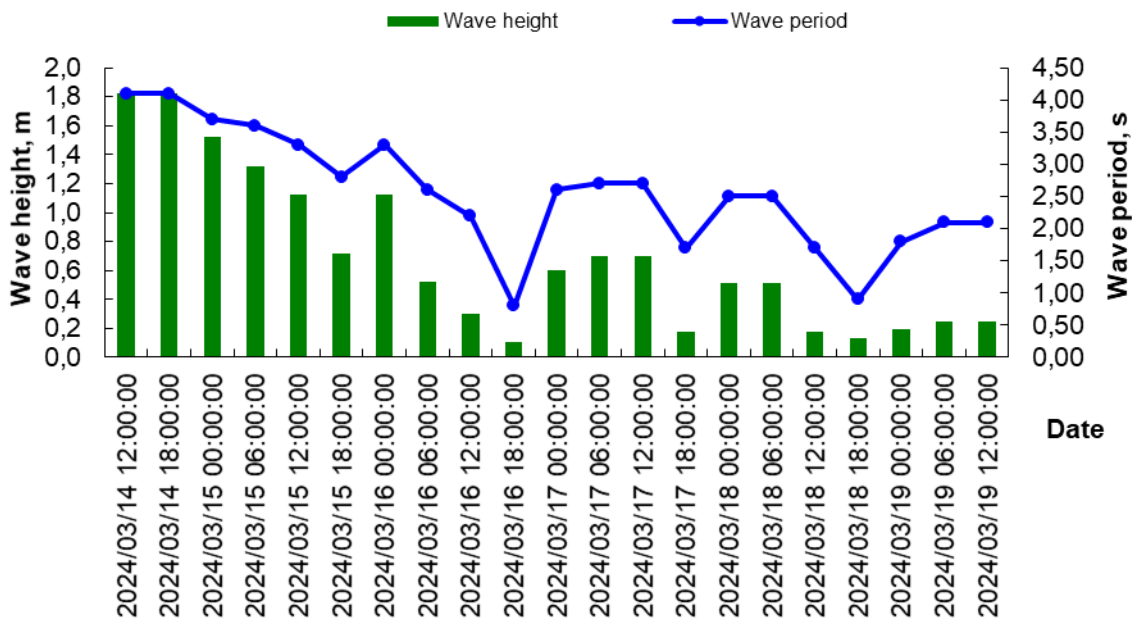
**REPUBLIC STATE-OWNED ENTERPRISE «KAZHYDROMET»**

**Forecast of the wave and wind condition for Middle part of the Caspian Sea  
Probability – 5 days, period 14 – 19 March 2024.**

**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
2024/03/14 12:00:00	14	NW	1,82	4,10
2024/03/14 18:00:00	14	NW	1,82	4,10
2024/03/15 00:00:00	13	NW	1,52	3,70
2024/03/15 06:00:00	12	NW	1,32	3,60
2024/03/15 12:00:00	10	NW	1,12	3,30
2024/03/15 18:00:00	8	NW	0,72	2,80
2024/03/16 00:00:00	10	NW	1,12	3,30
2024/03/16 06:00:00	6	NW	0,52	2,60
2024/03/16 12:00:00	5	N	0,30	2,20
2024/03/16 18:00:00	3	E	0,11	0,80
2024/03/17 00:00:00	7	SE	0,60	2,60
2024/03/17 06:00:00	8	SE	0,70	2,70
2024/03/17 12:00:00	8	SE	0,70	2,70
2024/03/17 18:00:00	4	SE	0,18	1,70
2024/03/18 00:00:00	6	NE	0,51	2,50
2024/03/18 06:00:00	6	E	0,51	2,50
2024/03/18 12:00:00	4	NE	0,18	1,70
2024/03/18 18:00:00	3	N	0,13	0,90
2024/03/19 00:00:00	4	NW	0,19	1,80
2024/03/19 06:00:00	5	NW	0,25	2,10
2024/03/19 12:00:00	5	W	0,25	2,10

Made by: Zhagparoav N.N.

Checked by: Yeltay A.

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