

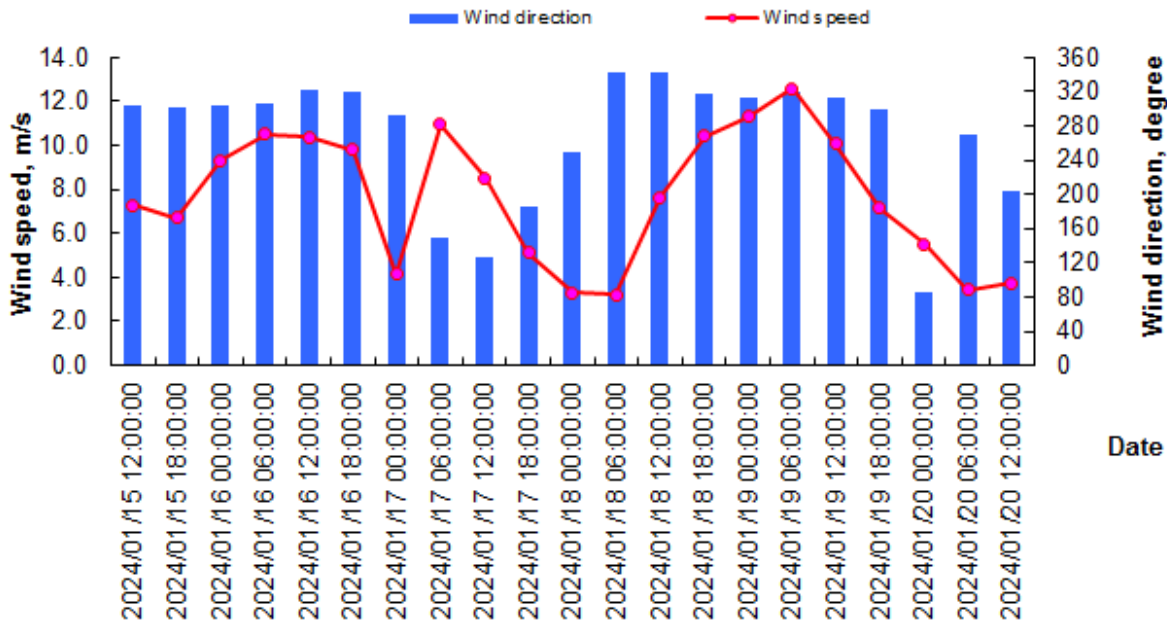


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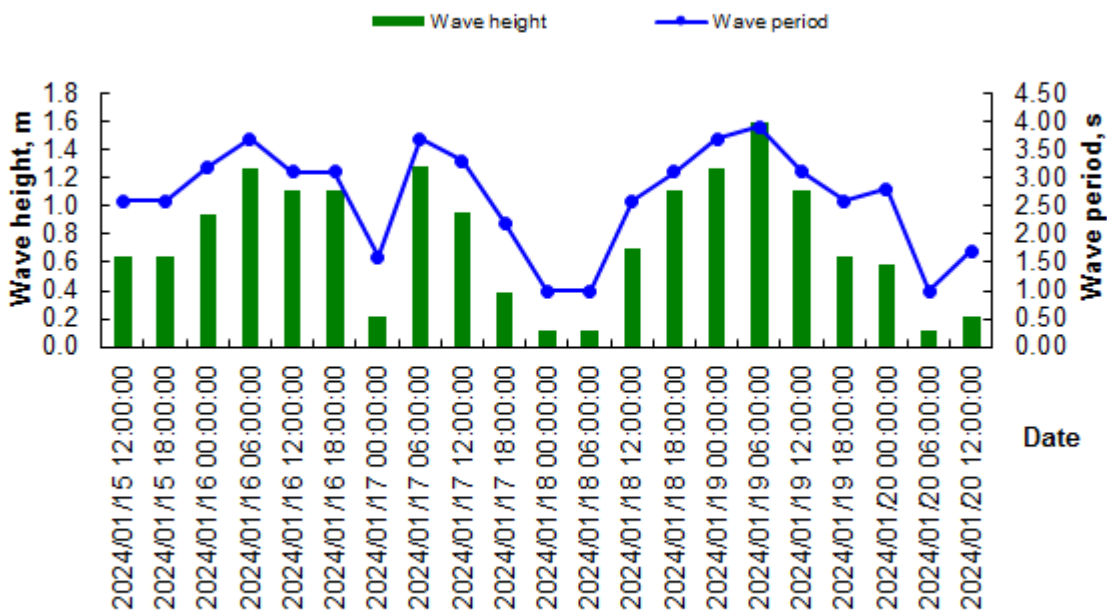
REPUBLIC STATE-OWNED ENTERPRISE «KAZHYDROMET»

**Forecast of the wave and wind condition for Middle part of the Caspian Sea
Probability – 5 days, period 15-20 January 2023.**

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
2024/01/15 12:00:00	7	NW	0.64	2.60
2024/01/15 18:00:00	7	NW	0.64	2.60
2024/01/16 00:00:00	9	NW	0.94	3.20
2024/01/16 06:00:00	11	NW	1.27	3.70
2024/01/16 12:00:00	10	NW	1.11	3.10
2024/01/16 18:00:00	10	NW	1.11	3.10
2024/01/17 00:00:00	4	NW	0.21	1.60
2024/01/17 06:00:00	11	SE	1.28	3.70
2024/01/17 12:00:00	9	SE	0.95	3.30
2024/01/17 18:00:00	5	S	0.39	2.20
2024/01/18 00:00:00	3	W	0.12	1.00
2024/01/18 06:00:00	3	N	0.11	1.00
2024/01/18 12:00:00	8	N	0.70	2.60
2024/01/18 18:00:00	10	NW	1.11	3.10
2024/01/19 00:00:00	11	NW	1.27	3.70
2024/01/19 06:00:00	13	NW	1.60	3.90
2024/01/19 12:00:00	10	NW	1.11	3.10
2024/01/19 18:00:00	7	NW	0.64	2.60
2024/01/20 00:00:00	6	E	0.59	2.80
2024/01/20 06:00:00	3	W	0.12	1.00
2024/01/20 12:00:00	4	SW	0.22	1.70

Made by: Shishkina G.M.

Checked by: Yeltay A.

Address: 050022. Almaty. Abay av. Tel. +7 7172 55 84 06;
e-mail: ugmikm@meteo.kz

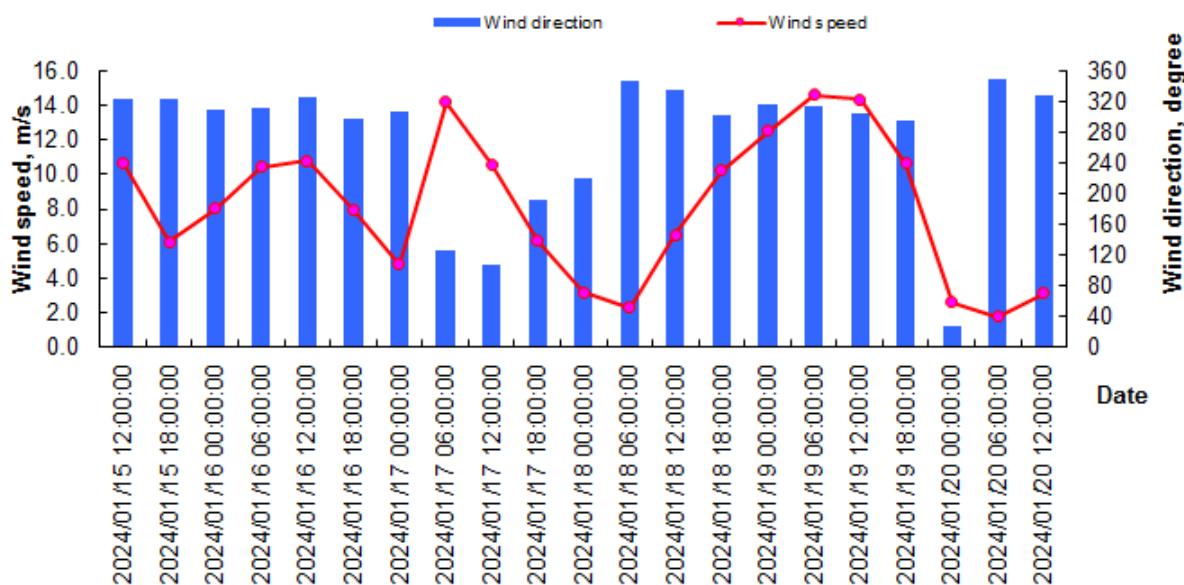


**MINISTRY OF ECOLOGY AND NATURAL RESOURCES OF THE
REPUBLIC OF KAZAKHSTAN**

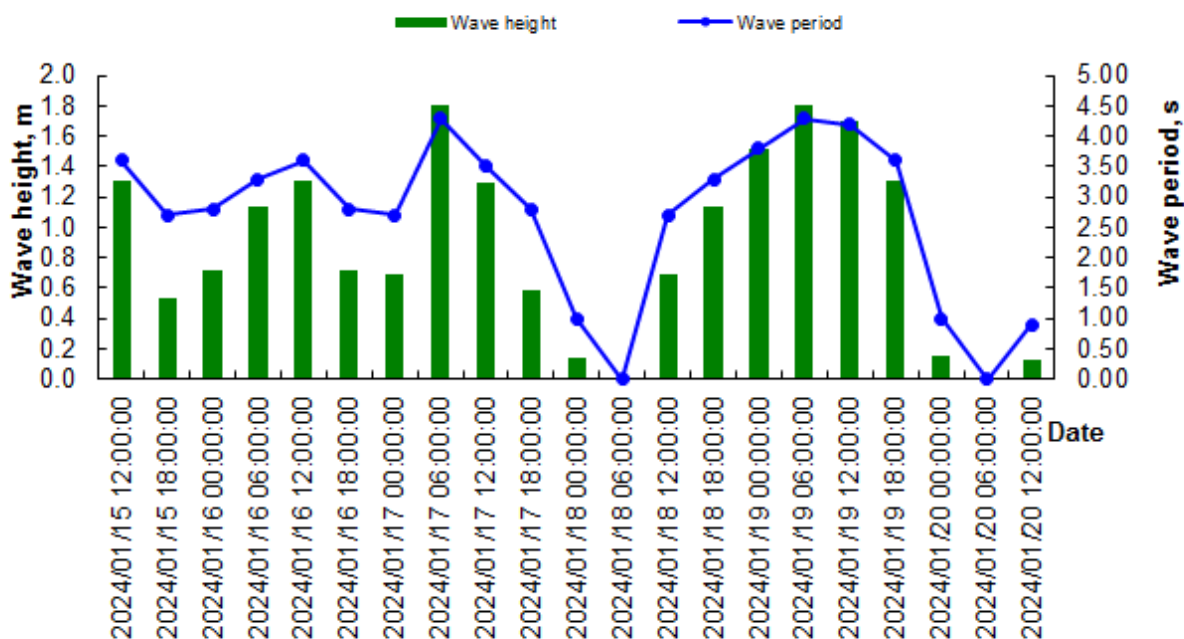
REPUBLIC STATE-OWNED ENTERPRISE «KAZHYDROMET»

**Forecast of the wave and wind condition for Middle part of the Caspian Sea
Probability – 5 days, period 15-20 January 2023.**

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
2024/01/15 12:00:00	11	NW	1.31	3.60
2024/01/15 18:00:00	6	NW	0.53	2.70
2024/01/16 00:00:00	8	NW	0.72	2.80
2024/01/16 06:00:00	10	NW	1.14	3.30
2024/01/16 12:00:00	11	NW	1.31	3.60
2024/01/16 18:00:00	8	NW	0.72	2.80
2024/01/17 00:00:00	7	NW	0.69	2.70
2024/01/17 06:00:00	14	SE	1.80	4.30
2024/01/17 12:00:00	11	E	1.30	3.50
2024/01/17 18:00:00	6	S	0.58	2.80
2024/01/18 00:00:00	3	SW	0.14	1.00
2024/01/18 06:00:00	2	N	0.00	0.00
2024/01/18 12:00:00	7	NW	0.69	2.70
2024/01/18 18:00:00	10	NW	1.14	3.30
2024/01/19 00:00:00	13	NW	1.52	3.80
2024/01/19 06:00:00	15	NW	1.80	4.30
2024/01/19 12:00:00	14	NW	1.70	4.20
2024/01/19 18:00:00	11	NW	1.31	3.60
2024/01/20 00:00:00	3	NE	0.15	1.00
2024/01/20 06:00:00	2	N	0.00	0.00
2024/01/20 12:00:00	3	NW	0.13	0.90

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Checked by: Yeltay A.

Address: 050022. Almaty. Abay av. Tel. +7 7172 55 84 06;
e-mail: ugmikm@meteo.kz

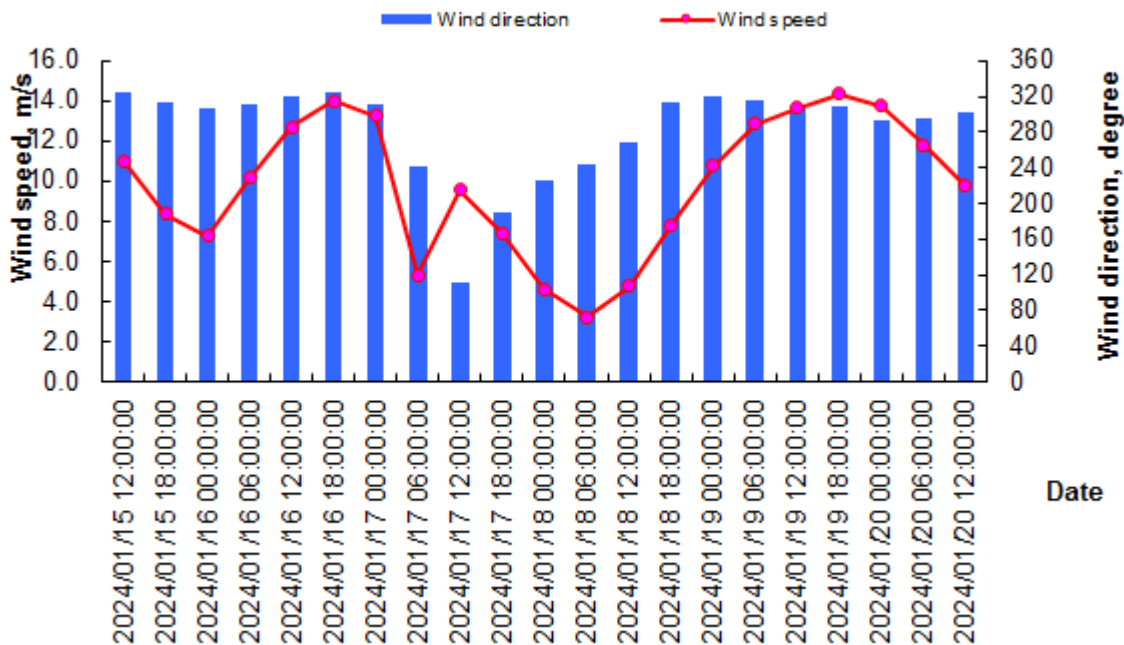


**MINISTRY OF ECOLOGY AND NATURAL RESOURCES OF THE
REPUBLIC OF KAZAKHSTAN**

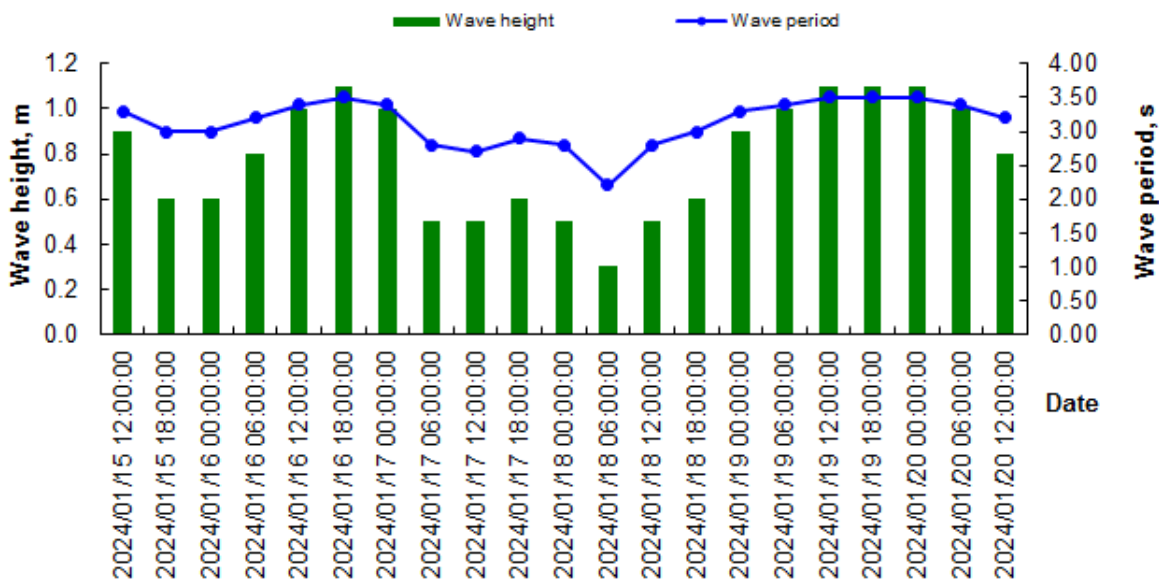
REPUBLIC STATE-OWNED ENTERPRISE «KAZHYDROMET»

**Forecast of the wave and wind condition for Middle part of the Caspian Sea
Probability – 5 days, period 15-20 January 2023.**

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
2024/01/15 12:00:00	11	NW	0.90	3.30
2024/01/15 18:00:00	8	NW	0.60	3.00
2024/01/16 00:00:00	7	NW	0.60	3.00
2024/01/16 06:00:00	10	NW	0.80	3.20
2024/01/16 12:00:00	13	NW	1.00	3.40
2024/01/16 18:00:00	14	NW	1.10	3.50
2024/01/17 00:00:00	13	NW	1.00	3.40
2024/01/17 06:00:00	5	SW	0.50	2.80
2024/01/17 12:00:00	10	E	0.50	2.70
2024/01/17 18:00:00	7	S	0.60	2.90
2024/01/18 00:00:00	5	SW	0.50	2.80
2024/01/18 06:00:00	3	SW	0.30	2.20
2024/01/18 12:00:00	5	W	0.50	2.80
2024/01/18 18:00:00	8	NW	0.60	3.00
2024/01/19 00:00:00	11	NW	0.90	3.30
2024/01/19 06:00:00	13	NW	1.00	3.40
2024/01/19 12:00:00	14	NW	1.10	3.50
2024/01/19 18:00:00	14	NW	1.10	3.50
2024/01/20 00:00:00	14	NW	1.10	3.50
2024/01/20 06:00:00	12	NW	1.00	3.40
2024/01/20 12:00:00	10	NW	0.80	3.20

Made by: Shishkina G.M.

Checked by: Yeltay A.

Address: 050022. Almaty. Abay av. Tel. +7 7172 55 84 06;

e-mail: ugmikm@meteo.kz

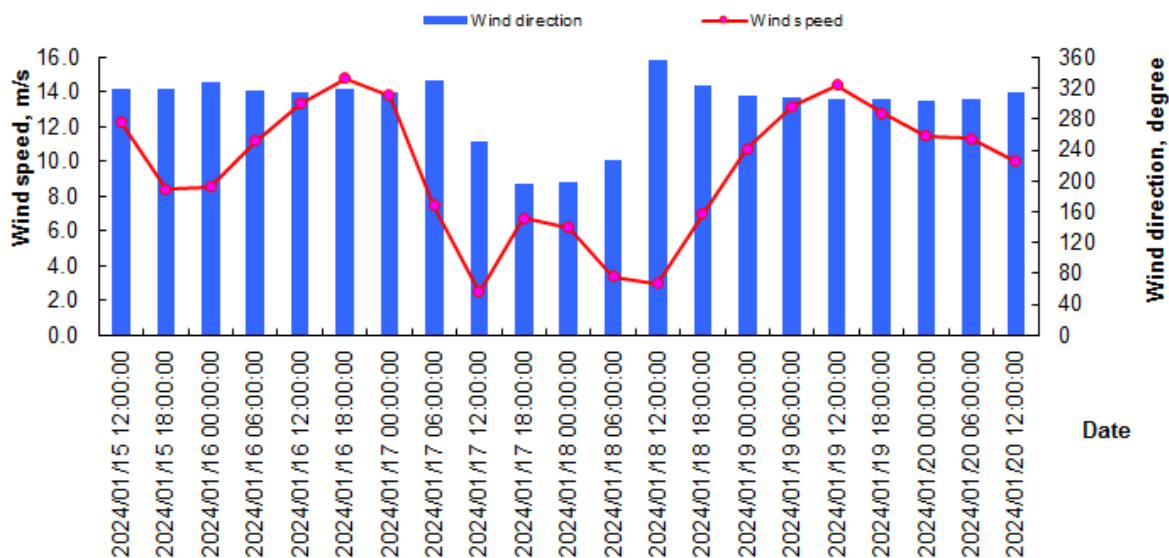


**MINISTRY OF ECOLOGY AND NATURAL RESOURCES OF THE
REPUBLIC OF KAZAKHSTAN**

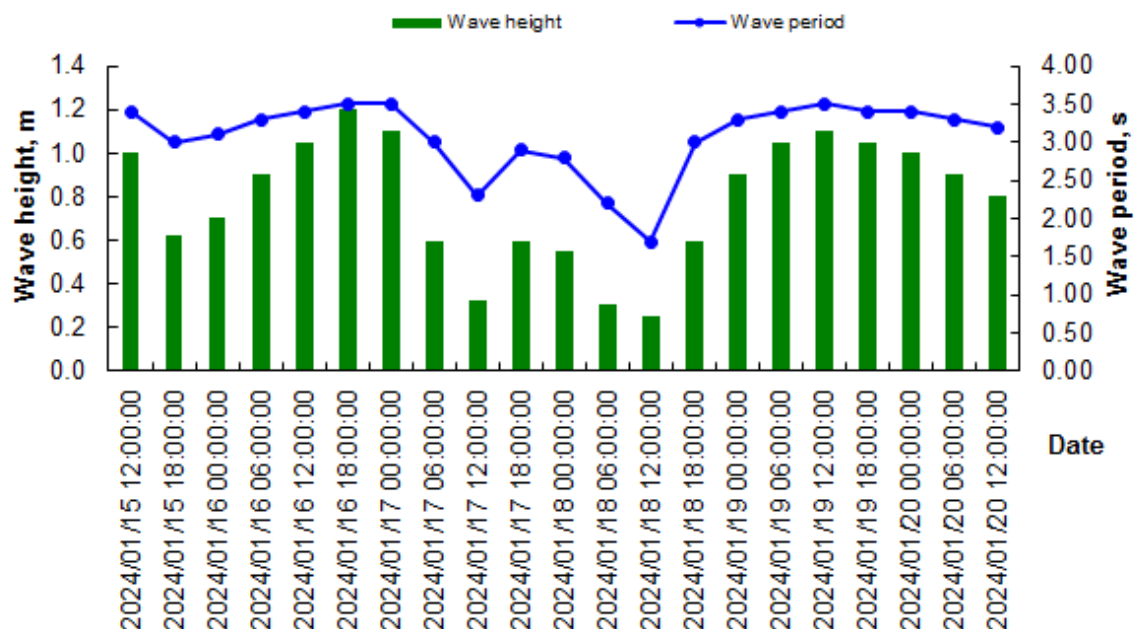
REPUBLIC STATE-OWNED ENTERPRISE «KAZHYDROMET»

**Forecast of the wave and wind condition for Middle part of the Caspian Sea
Probability – 5 days, period 15-20 January 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 (τ)	
	WS, m/s	WD, rumb	H, m	t, s
2024/01/15 12:00:00	12	NW	1.00	3.40
2024/01/15 18:00:00	8	NW	0.62	3.00
2024/01/16 00:00:00	9	NW	0.70	3.10
2024/01/16 06:00:00	11	NW	0.90	3.30
2024/01/16 12:00:00	13	NW	1.05	3.40
2024/01/16 18:00:00	15	NW	1.20	3.50
2024/01/17 00:00:00	14	NW	1.10	3.50
2024/01/17 06:00:00	7	NW	0.60	3.00
2024/01/17 12:00:00	3	W	0.32	2.30
2024/01/17 18:00:00	7	S	0.60	2.90
2024/01/18 00:00:00	6	S	0.55	2.80
2024/01/18 06:00:00	3	SW	0.31	2.20
2024/01/18 12:00:00	3	N	0.25	1.70
2024/01/18 18:00:00	7	NW	0.60	3.00
2024/01/19 00:00:00	11	NW	0.90	3.30
2024/01/19 06:00:00	13	NW	1.05	3.40
2024/01/19 12:00:00	14	NW	1.10	3.50
2024/01/19 18:00:00	13	NW	1.05	3.40
2024/01/20 00:00:00	12	NW	1.00	3.40
2024/01/20 06:00:00	11	NW	0.90	3.30
2024/01/20 12:00:00	10	NW	0.80	3.20

Made by: Shishkina G.M.

Checked by: Yeltay A.

Address: 050022. Almaty. Abay av. Tel. +7 7172 55 84 06;
e-mail: ugmikm@meteo.kz

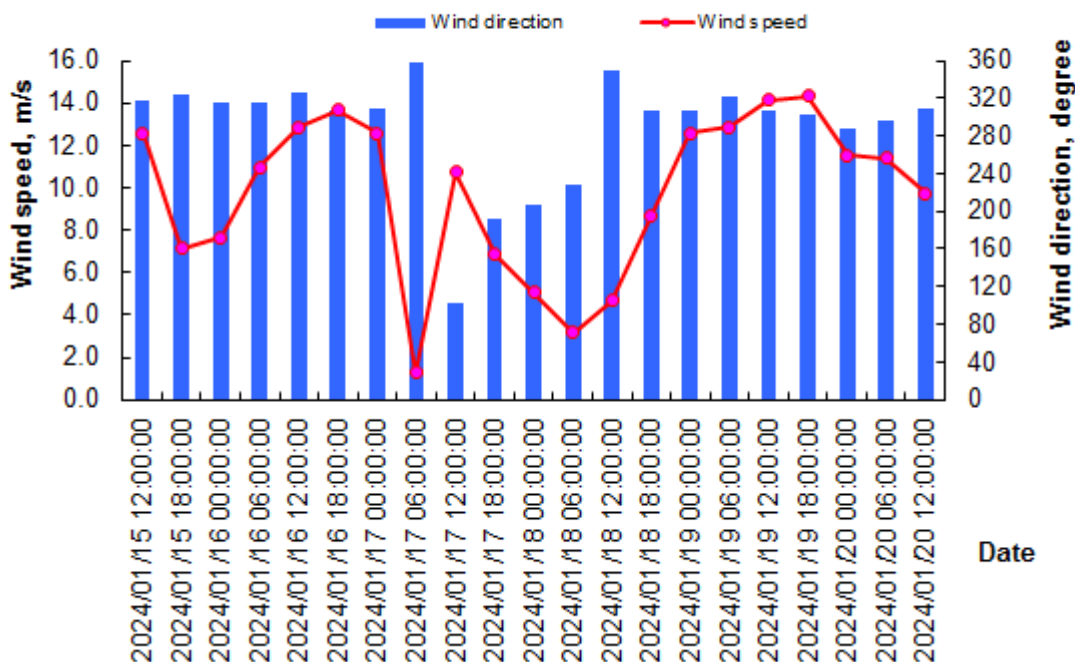


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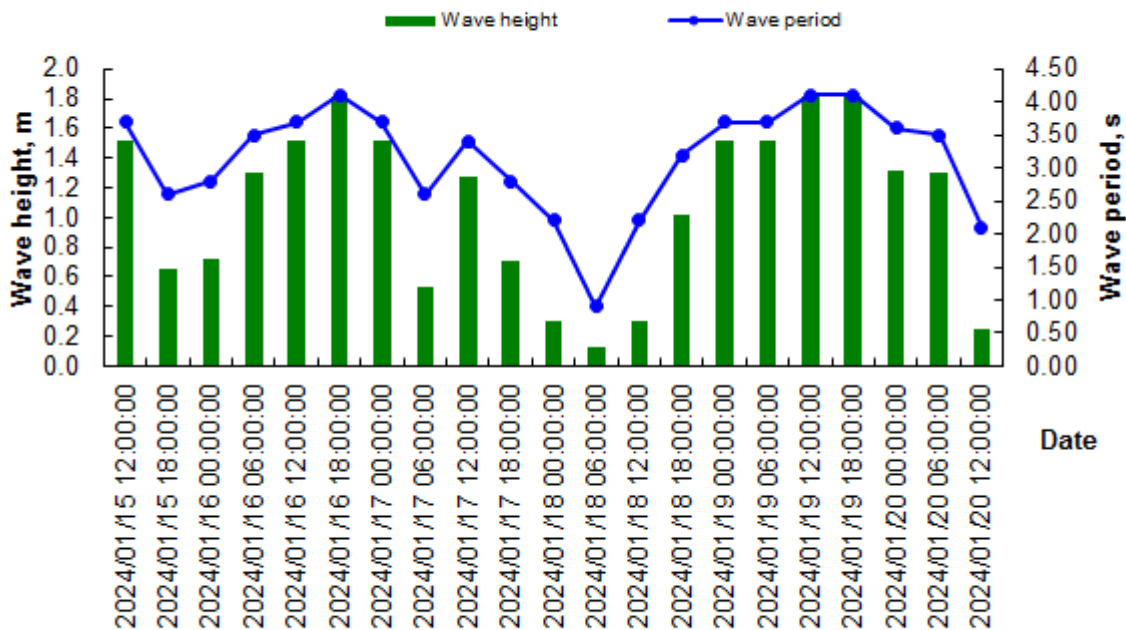
REPUBLIC STATE-OWNED ENTERPRISE «KAZHYDROMET»

**Forecast of the wave and wind condition for Middle part of the Caspian Sea
Probability – 5 days, period 15-20 January 2023.**

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
2024/01/15 12:00:00	13	NW	1.52	3.70
2024/01/15 18:00:00	7	NW	0.65	2.60
2024/01/16 00:00:00	8	NW	0.72	2.80
2024/01/16 06:00:00	11	NW	1.30	3.50
2024/01/16 12:00:00	13	NW	1.52	3.70
2024/01/16 18:00:00	14	NW	1.82	4.10
2024/01/17 00:00:00	13	NW	1.52	3.70
2024/01/17 06:00:00	6	N	0.53	2.60
2024/01/17 12:00:00	11	E	1.28	3.40
2024/01/17 18:00:00	7	S	0.71	2.80
2024/01/18 00:00:00	5	SW	0.30	2.20
2024/01/18 06:00:00	3	SW	0.13	0.90
2024/01/18 12:00:00	5	N	0.30	2.20
2024/01/18 18:00:00	9	NW	1.02	3.20
2024/01/19 00:00:00	13	NW	1.52	3.70
2024/01/19 06:00:00	13	NW	1.52	3.70
2024/01/19 12:00:00	14	NW	1.82	4.10
2024/01/19 18:00:00	14	NW	1.82	4.10
2024/01/20 00:00:00	12	W	1.32	3.60
2024/01/20 06:00:00	11	NW	1.30	3.50
2024/01/20 12:00:00	5	NW	0.25	2.10

Made by: Shishkina G.M.

Checked by: Yeltay A.

Address: 050022. Almaty. Abay av. Tel. +7 7172 55 84 06;
e-mail: ugmikm@meteo.kz