

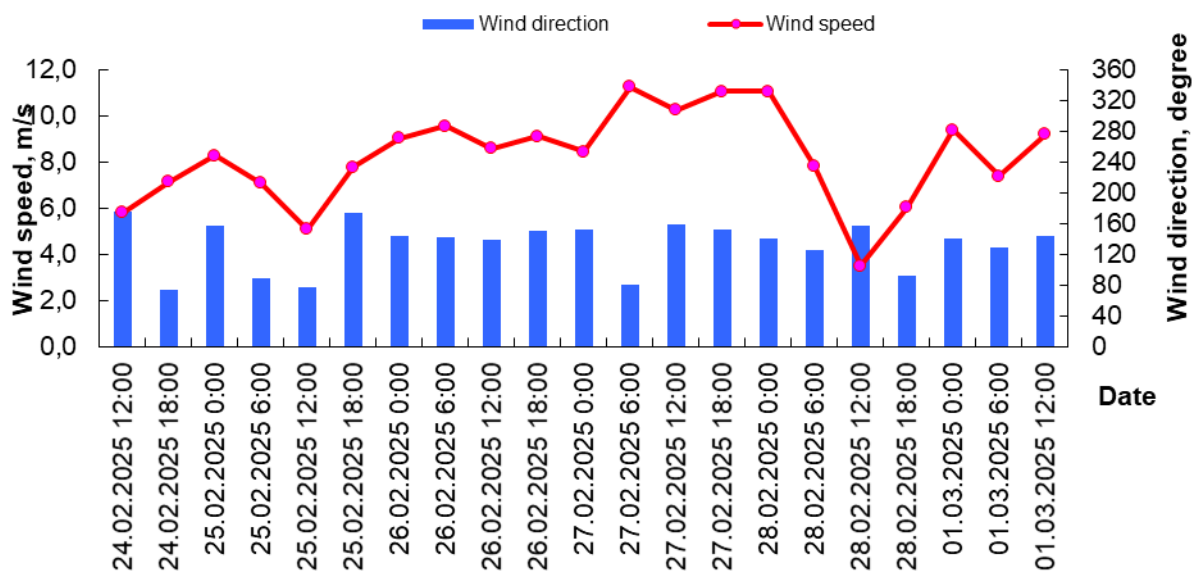


**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN**

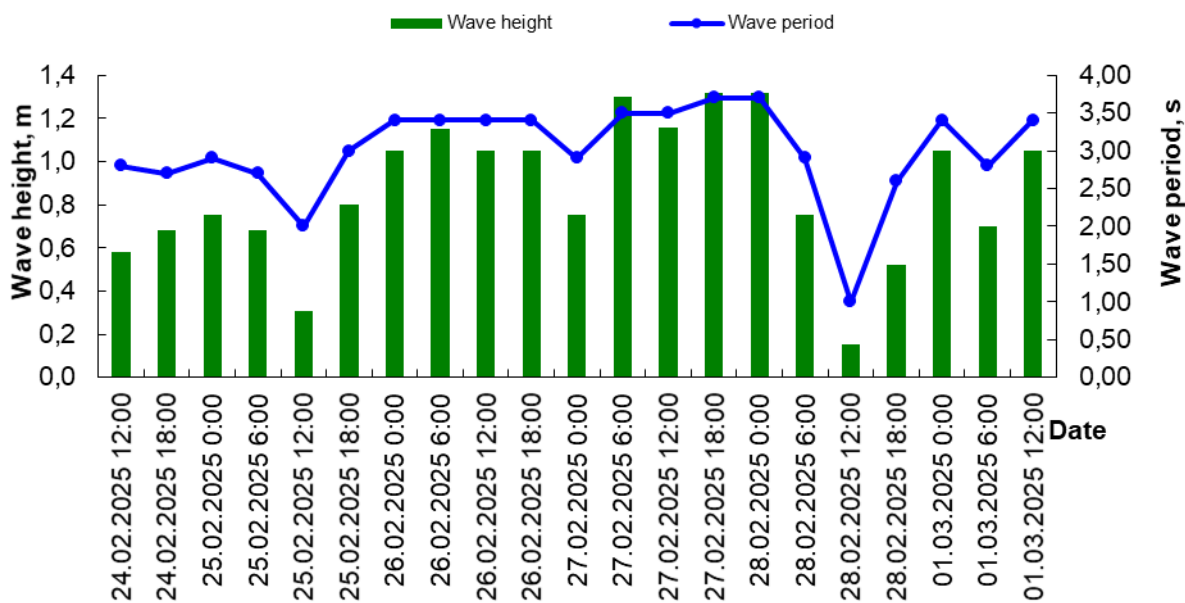
RSE «KAZHYDROMET»

**Wave and wind forecast for the Middle part of the Caspian Sea with a 5-day
advance for the period February 24 – March 01, 2025**

Wind condition in the 21050 unit

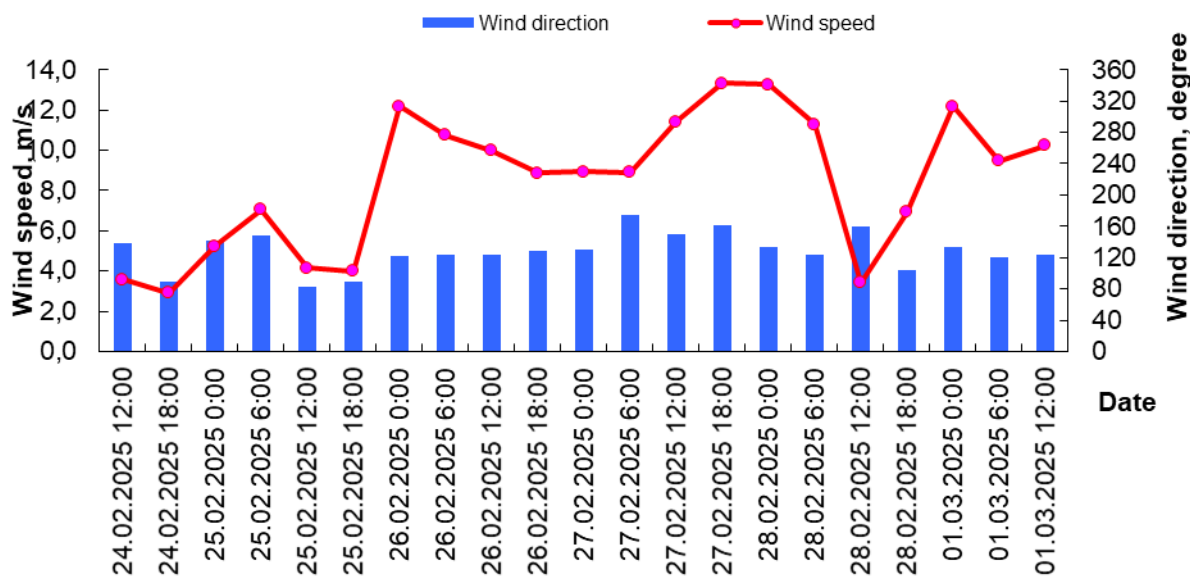


Wave condition in the 21050 unit

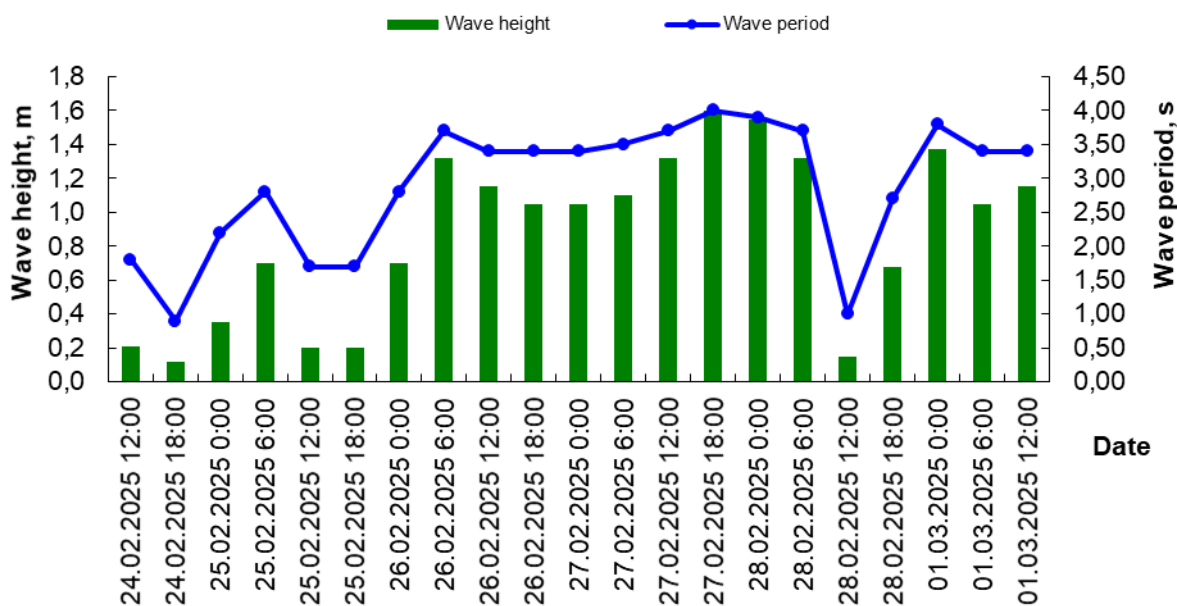


| Date Time | Wind speed (WS) and wind direction (WD) | | Wave height (H) and wave period (τ) | |
|------------------|---|----------|--|------|
| | WS, m/s | WD, rumb | H, m | t, s |
| 24.02.2025 12:00 | 6 | SE | 0,58 | 2,80 |
| 24.02.2025 18:00 | 7 | E | 0,68 | 2,70 |
| 25.02.2025 0:00 | 8 | SE | 0,75 | 2,90 |
| 25.02.2025 6:00 | 7 | SE | 0,68 | 2,70 |
| 25.02.2025 12:00 | 5 | E | 0,31 | 2,00 |
| 25.02.2025 18:00 | 8 | E | 0,80 | 3,00 |
| 26.02.2025 0:00 | 9 | SE | 1,05 | 3,40 |
| 26.02.2025 6:00 | 10 | SE | 1,15 | 3,40 |
| 26.02.2025 12:00 | 9 | SE | 1,05 | 3,40 |
| 26.02.2025 18:00 | 9 | SE | 1,05 | 3,40 |
| 27.02.2025 0:00 | 8 | SE | 0,75 | 2,90 |
| 27.02.2025 6:00 | 11 | S | 1,30 | 3,50 |
| 27.02.2025 12:00 | 10 | SE | 1,16 | 3,50 |
| 27.02.2025 18:00 | 11 | S | 1,32 | 3,70 |
| 28.02.2025 0:00 | 11 | SE | 1,32 | 3,70 |
| 28.02.2025 6:00 | 8 | SE | 0,75 | 2,90 |
| 28.02.2025 12:00 | 3 | S | 0,15 | 1,00 |
| 28.02.2025 18:00 | 6 | E | 0,52 | 2,60 |
| 01.03.2025 0:00 | 9 | SE | 1,05 | 3,40 |
| 01.03.2025 6:00 | 7 | SE | 0,70 | 2,80 |
| 01.03.2025 12:00 | 9 | SE | 1,05 | 3,40 |

Wind condition in the 21141 unit

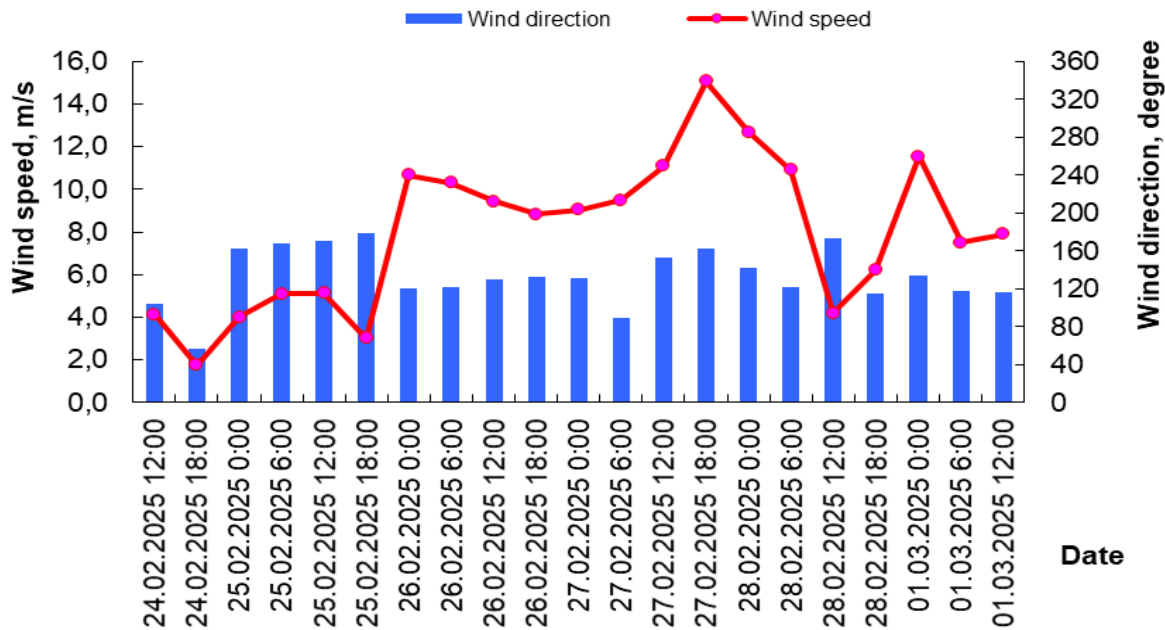


Wave condition in the 21141 unit

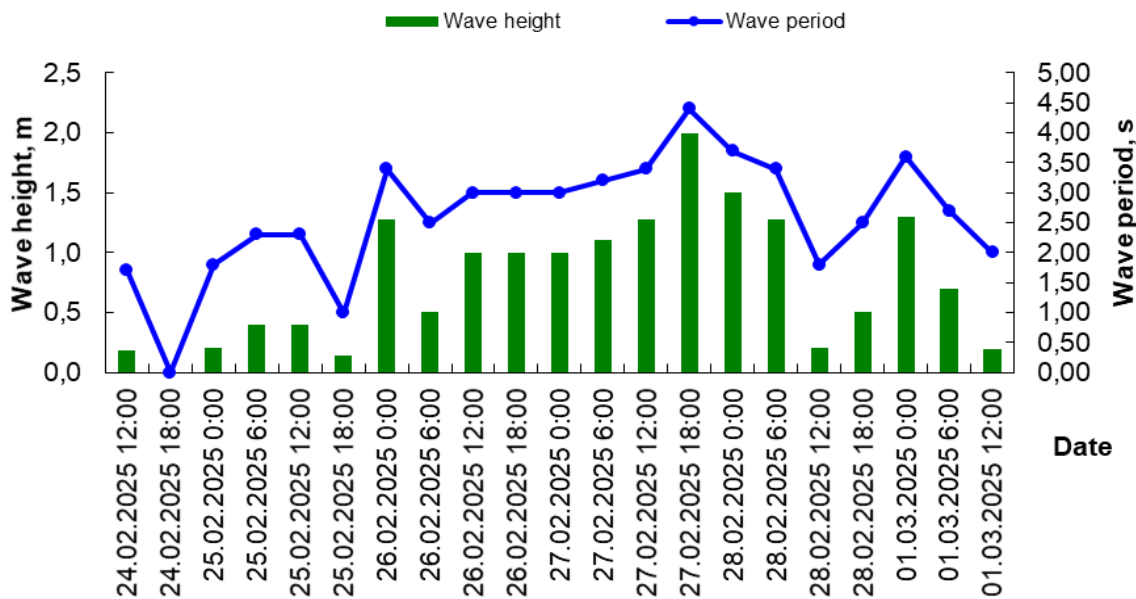


| Date Time | Wind speed (WS) and wind direction (WD) | | Wave height (H) and wave period (τ) | |
|------------------|---|----------|--|------|
| | WS, m/s | WD, rumb | H, m | t, s |
| 24.02.2025 12:00 | 4 | SE | 0,21 | 1,80 |
| 24.02.2025 18:00 | 3 | E | 0,12 | 0,90 |
| 25.02.2025 0:00 | 5 | SE | 0,35 | 2,20 |
| 25.02.2025 6:00 | 7 | SE | 0,70 | 2,80 |
| 25.02.2025 12:00 | 4 | E | 0,20 | 1,70 |
| 25.02.2025 18:00 | 4 | E | 0,20 | 1,70 |
| 26.02.2025 0:00 | 7 | SE | 0,70 | 2,80 |
| 26.02.2025 6:00 | 11 | SE | 1,32 | 3,70 |
| 26.02.2025 12:00 | 10 | SE | 1,15 | 3,40 |
| 26.02.2025 18:00 | 9 | SE | 1,05 | 3,40 |
| 27.02.2025 0:00 | 9 | SE | 1,05 | 3,40 |
| 27.02.2025 6:00 | 9 | S | 1,10 | 3,50 |
| 27.02.2025 12:00 | 11 | SE | 1,32 | 3,70 |
| 27.02.2025 18:00 | 13 | S | 1,60 | 4,00 |
| 28.02.2025 0:00 | 13 | SE | 1,55 | 3,90 |
| 28.02.2025 6:00 | 11 | SE | 1,32 | 3,70 |
| 28.02.2025 12:00 | 3 | S | 0,15 | 1,00 |
| 28.02.2025 18:00 | 7 | E | 0,68 | 2,70 |
| 01.03.2025 0:00 | 12 | SE | 1,37 | 3,80 |
| 01.03.2025 6:00 | 9 | SE | 1,05 | 3,40 |
| 01.03.2025 12:00 | 10 | SE | 1,15 | 3,40 |

Wind condition in the 21142 unit

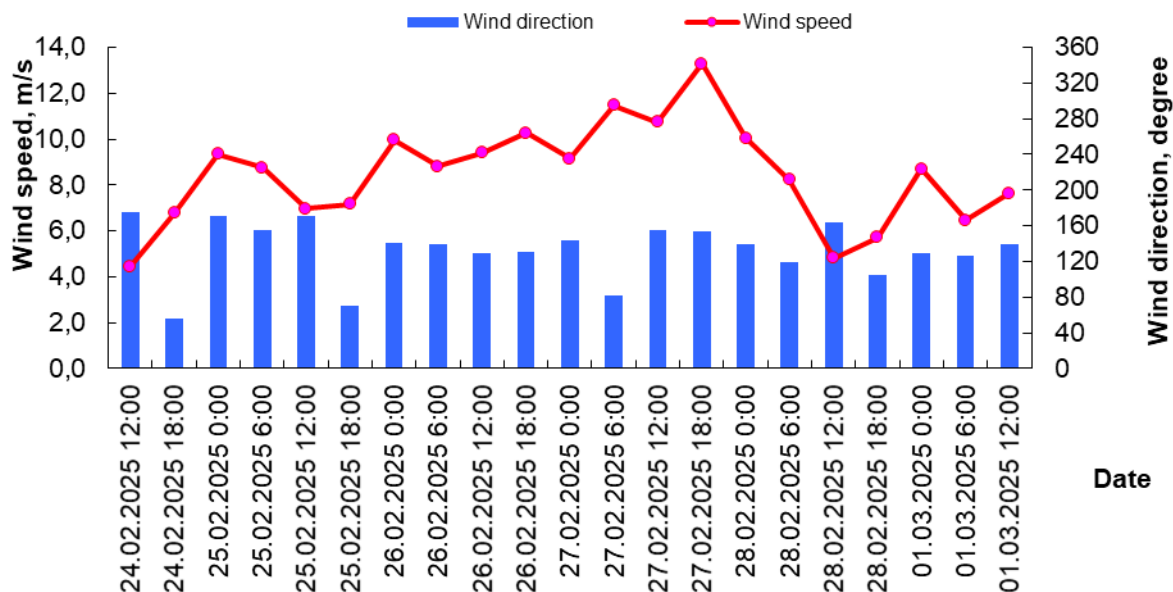


Wave condition in the 21142 unit

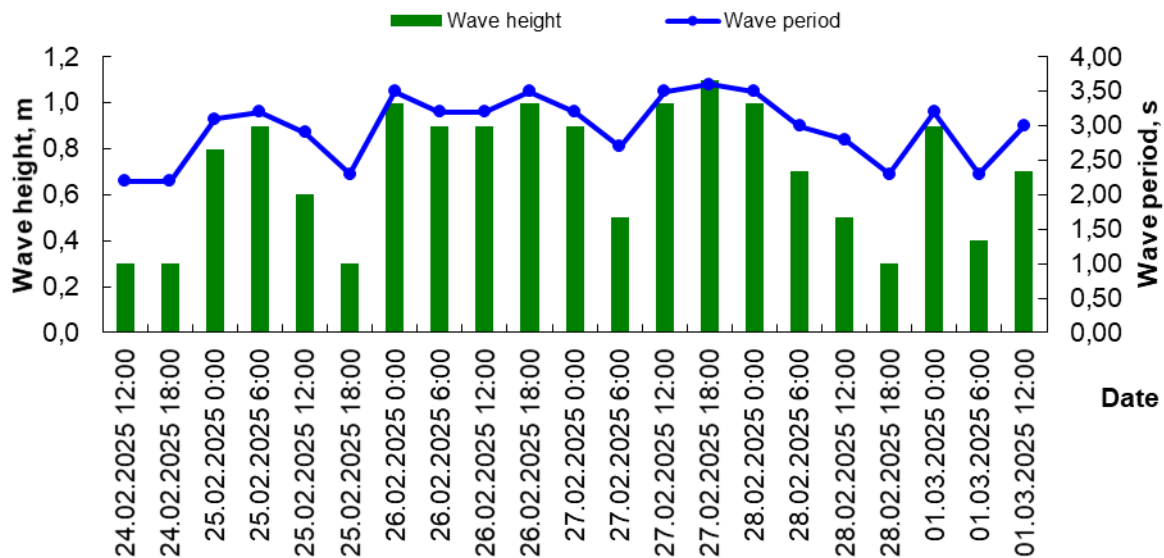


| Date Time | Wind speed (WS) and wind direction (WD) | | Wave height (H) and wave period (τ) | |
|------------------|---|----------|--|------|
| | WS, m/s | WD, rumb | H, m | t, s |
| 24.02.2025 12:00 | 4 | E | 0,18 | 1,70 |
| 24.02.2025 18:00 | 2 | NE | 0,00 | 0,00 |
| 25.02.2025 0:00 | 4 | S | 0,21 | 1,80 |
| 25.02.2025 6:00 | 5 | S | 0,40 | 2,30 |
| 25.02.2025 12:00 | 5 | S | 0,40 | 2,30 |
| 25.02.2025 18:00 | 3 | S | 0,14 | 1,00 |
| 26.02.2025 0:00 | 11 | SE | 1,28 | 3,40 |
| 26.02.2025 6:00 | 10 | SE | 0,51 | 2,50 |
| 26.02.2025 12:00 | 9 | SE | 1,00 | 3,00 |
| 26.02.2025 18:00 | 9 | SE | 1,00 | 3,00 |
| 27.02.2025 0:00 | 9 | SE | 1,00 | 3,00 |
| 27.02.2025 6:00 | 10 | E | 1,11 | 3,20 |
| 27.02.2025 12:00 | 11 | SE | 1,28 | 3,40 |
| 27.02.2025 18:00 | 15 | S | 2,00 | 4,40 |
| 28.02.2025 0:00 | 13 | SE | 1,50 | 3,70 |
| 28.02.2025 6:00 | 11 | SE | 1,28 | 3,40 |
| 28.02.2025 12:00 | 4 | S | 0,21 | 1,80 |
| 28.02.2025 18:00 | 6 | SE | 0,51 | 2,50 |
| 01.03.2025 0:00 | 12 | SE | 1,30 | 3,60 |
| 01.03.2025 6:00 | 8 | SE | 0,70 | 2,70 |
| 01.03.2025 12:00 | 8 | SE | 0,20 | 2,00 |

Wind condition in the Bautino Bay

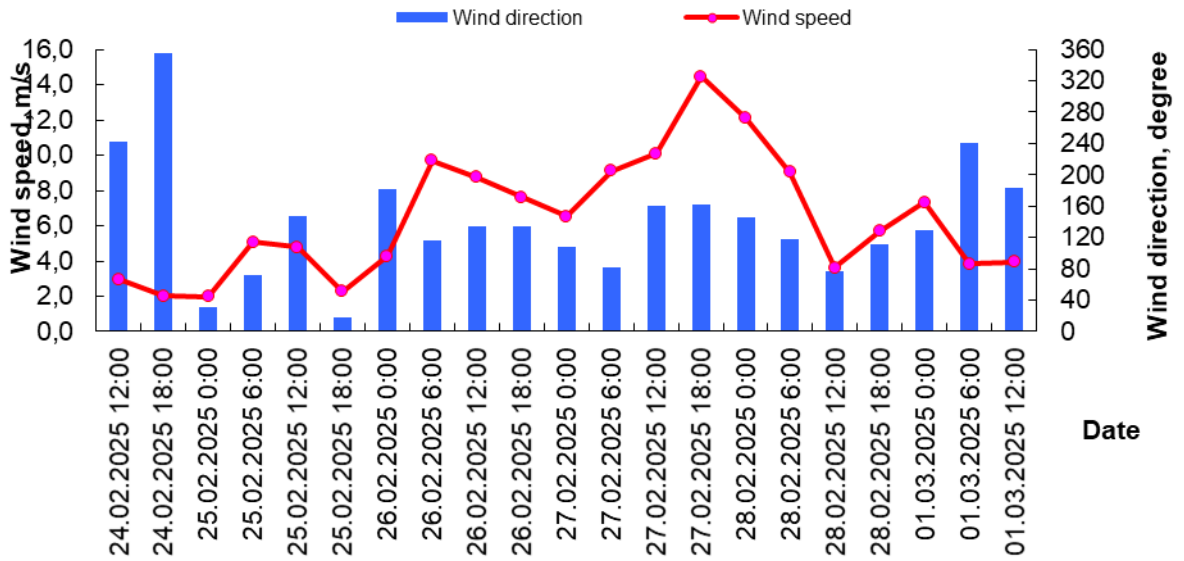


Wave condition in the Bautino Bay

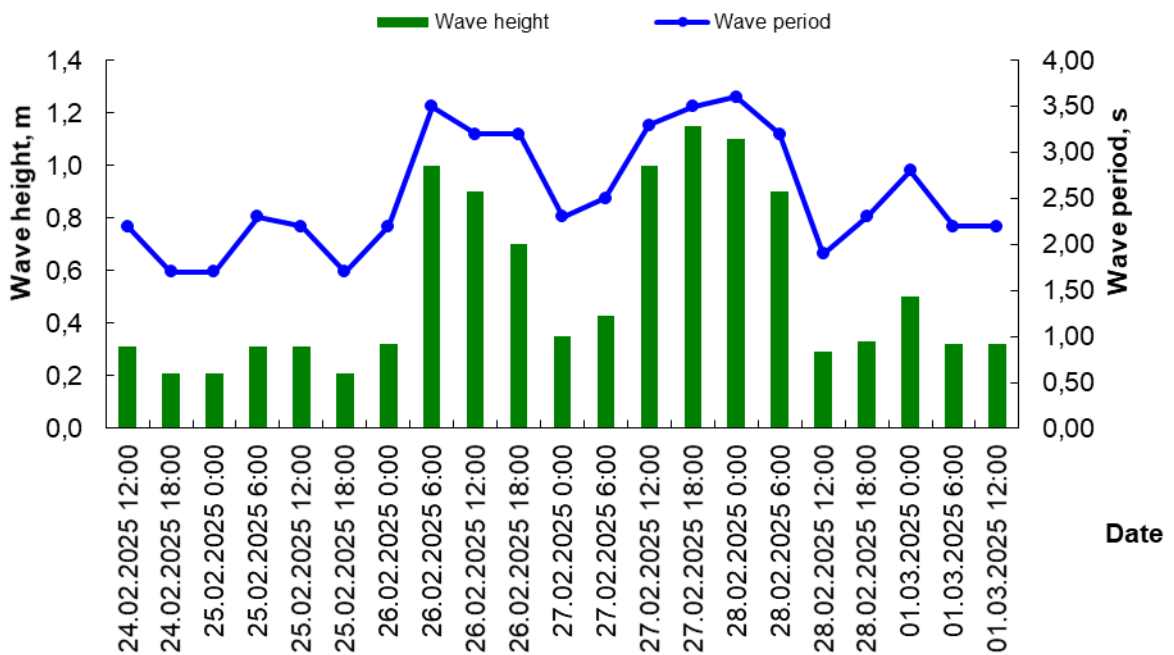


| Date Time | Wind speed (WS) and wind direction (WD) | | Wave height (H) and wave period (τ) | |
|------------------|---|----------|--|------|
| | WS, m/s | WD, rumb | H, m | t, s |
| | | | | |
| 24.02.2025 12:00 | 4 | S | 0,30 | 2,20 |
| 24.02.2025 18:00 | 7 | NE | 0,30 | 2,20 |
| 25.02.2025 0:00 | 9 | S | 0,80 | 3,10 |
| 25.02.2025 6:00 | 9 | SE | 0,90 | 3,20 |
| 25.02.2025 12:00 | 7 | S | 0,60 | 2,90 |
| 25.02.2025 18:00 | 7 | E | 0,30 | 2,30 |
| 26.02.2025 0:00 | 10 | SE | 1,00 | 3,50 |
| 26.02.2025 6:00 | 9 | SE | 0,90 | 3,20 |
| 26.02.2025 12:00 | 9 | SE | 0,90 | 3,20 |
| 26.02.2025 18:00 | 10 | SE | 1,00 | 3,50 |
| 27.02.2025 0:00 | 9 | SE | 0,90 | 3,20 |
| 27.02.2025 6:00 | 11 | E | 0,50 | 2,70 |
| 27.02.2025 12:00 | 11 | SE | 1,00 | 3,50 |
| 27.02.2025 18:00 | 13 | SE | 1,10 | 3,60 |
| 28.02.2025 0:00 | 10 | SE | 1,00 | 3,50 |
| 28.02.2025 6:00 | 8 | SE | 0,70 | 3,00 |
| 28.02.2025 12:00 | 5 | S | 0,50 | 2,80 |
| 28.02.2025 18:00 | 6 | E | 0,30 | 2,30 |
| 01.03.2025 0:00 | 9 | SE | 0,90 | 3,20 |
| 01.03.2025 6:00 | 6 | SE | 0,40 | 2,30 |
| 01.03.2025 12:00 | 8 | SE | 0,70 | 3,00 |

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 |
| 24.02.2025 12:00 | 3 | SW | 0,31 | 2,20 |
| 24.02.2025 18:00 | 2 | N | 0,21 | 1,70 |
| 25.02.2025 0:00 | 2 | NE | 0,21 | 1,70 |
| 25.02.2025 6:00 | 5 | E | 0,31 | 2,30 |
| 25.02.2025 12:00 | 5 | SE | 0,31 | 2,20 |
| 25.02.2025 18:00 | 2 | N | 0,21 | 1,70 |
| 26.02.2025 0:00 | 4 | S | 0,32 | 2,20 |
| 26.02.2025 6:00 | 10 | SE | 1,00 | 3,50 |
| 26.02.2025 12:00 | 9 | SE | 0,90 | 3,20 |
| 26.02.2025 18:00 | 8 | SE | 0,70 | 3,20 |
| 27.02.2025 0:00 | 7 | E | 0,35 | 2,30 |
| 27.02.2025 6:00 | 9 | E | 0,43 | 2,50 |
| 27.02.2025 12:00 | 10 | S | 1,00 | 3,30 |
| 27.02.2025 18:00 | 14 | S | 1,15 | 3,50 |
| 28.02.2025 0:00 | 12 | SE | 1,10 | 3,60 |
| 28.02.2025 6:00 | 9 | SE | 0,90 | 3,20 |
| 28.02.2025 12:00 | 4 | E | 0,29 | 1,90 |
| 28.02.2025 18:00 | 6 | E | 0,33 | 2,30 |
| 01.03.2025 0:00 | 7 | SE | 0,50 | 2,80 |
| 01.03.2025 6:00 | 4 | SW | 0,32 | 2,20 |
| 01.03.2025 12:00 | 4 | S | 0,32 | 2,20 |

Made by: Kurmangalieva A.K.

Checked by: Yeltay A.G.