

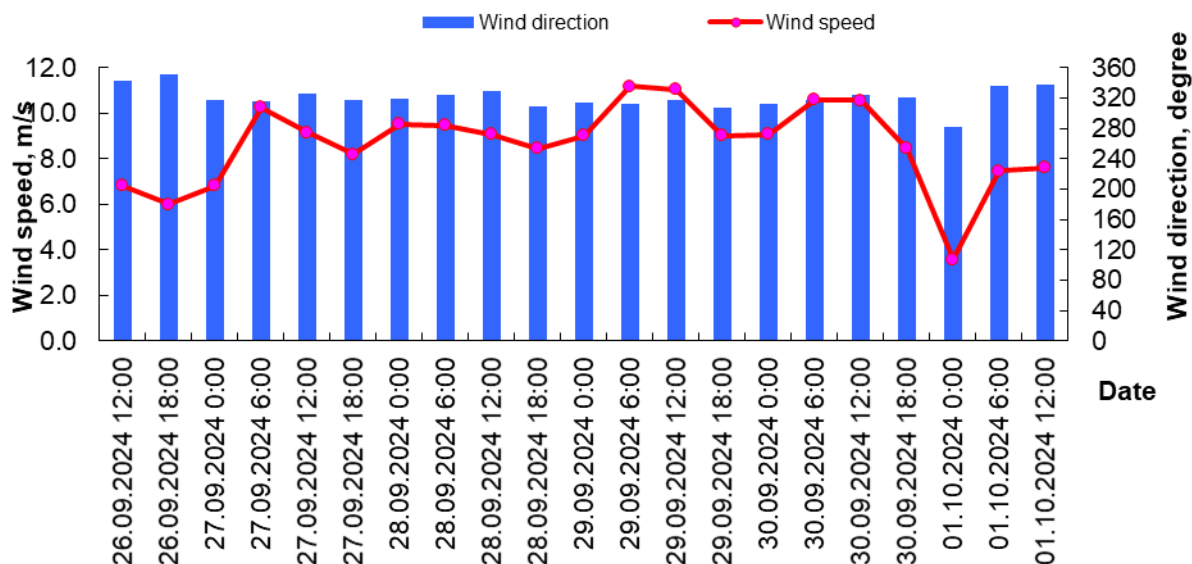


**MINISTRY OF ECOLOGY AND NATURAL RESOURCES
OF THE REPUBLIC OF KAZAKHSTAN**

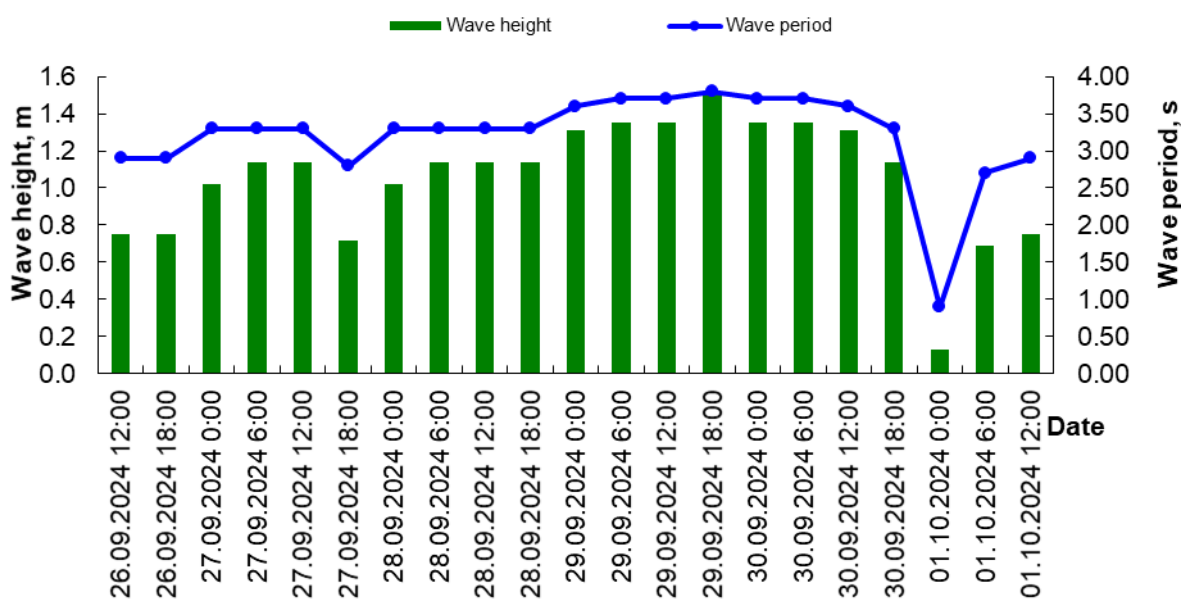
RSE «KAZHYDROMET»

**Wave and wind forecast for the Middle part of the Caspian Sea with a 5-day
advance for the period September 26 – October 1, 2024**

Wind condition in the 21050 unit

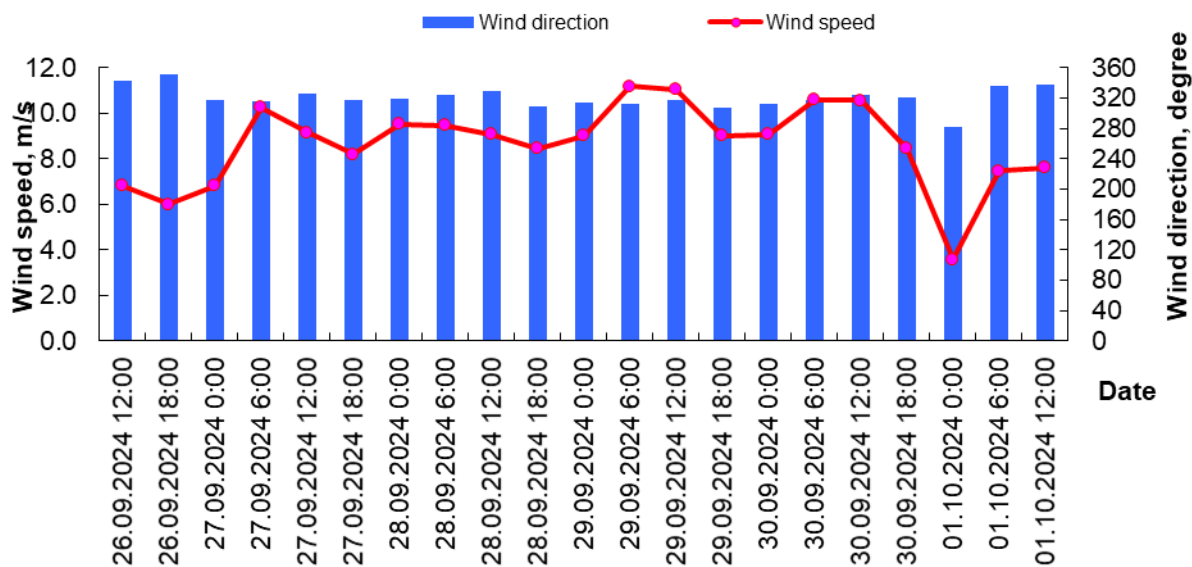


Wave condition in the 21050 unit

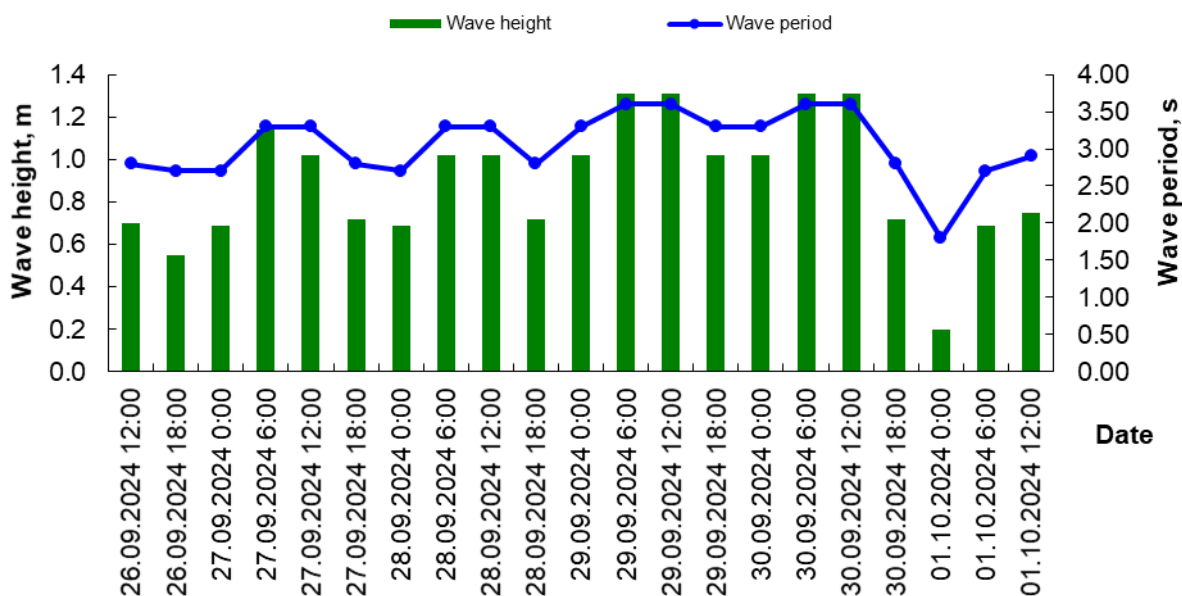


| Date Time | Wind speed (WS) and wind direction (WD) | | Wave height (H) and wave period (τ) | |
|------------------|---|----------|--|------|
| | WS, m/s | WD, rumb | H, m | t, s |
| 26.09.2024 12:00 | 8 | N | 0.75 | 2.90 |
| 26.09.2024 18:00 | 8 | N | 0.75 | 2.90 |
| 27.09.2024 0:00 | 9 | NW | 1.02 | 3.30 |
| 27.09.2024 6:00 | 10 | NW | 1.14 | 3.30 |
| 27.09.2024 12:00 | 10 | NW | 1.14 | 3.30 |
| 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 | 10 | NW | 1.14 | 3.30 |
| 28.09.2024 12:00 | 10 | NW | 1.14 | 3.30 |
| 28.09.2024 18:00 | 10 | NW | 1.14 | 3.30 |
| 29.09.2024 0:00 | 11 | NW | 1.31 | 3.60 |
| 29.09.2024 6:00 | 12 | NW | 1.35 | 3.70 |
| 29.09.2024 12:00 | 12 | NW | 1.35 | 3.70 |
| 29.09.2024 18:00 | 13 | NW | 1.52 | 3.80 |
| 30.09.2024 0:00 | 12 | NW | 1.35 | 3.70 |
| 30.09.2024 6:00 | 12 | NW | 1.35 | 3.70 |
| 30.09.2024 12:00 | 11 | NW | 1.31 | 3.60 |
| 30.09.2024 18:00 | 10 | NW | 1.14 | 3.30 |
| 01.10.2024 0:00 | 3 | W | 0.13 | 0.90 |
| 01.10.2024 6:00 | 7 | NW | 0.69 | 2.70 |
| 01.10.2024 12:00 | 8 | N | 0.75 | 2.90 |

Wind condition in the 21141 unit

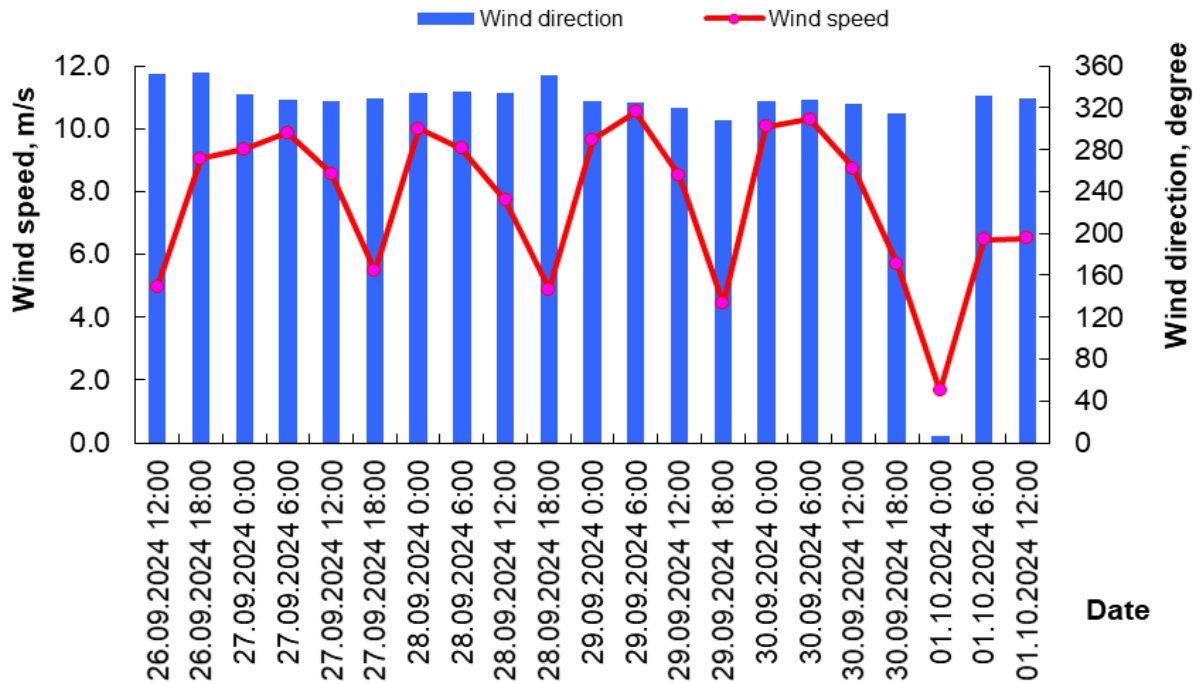


Wave condition in the 21141 unit

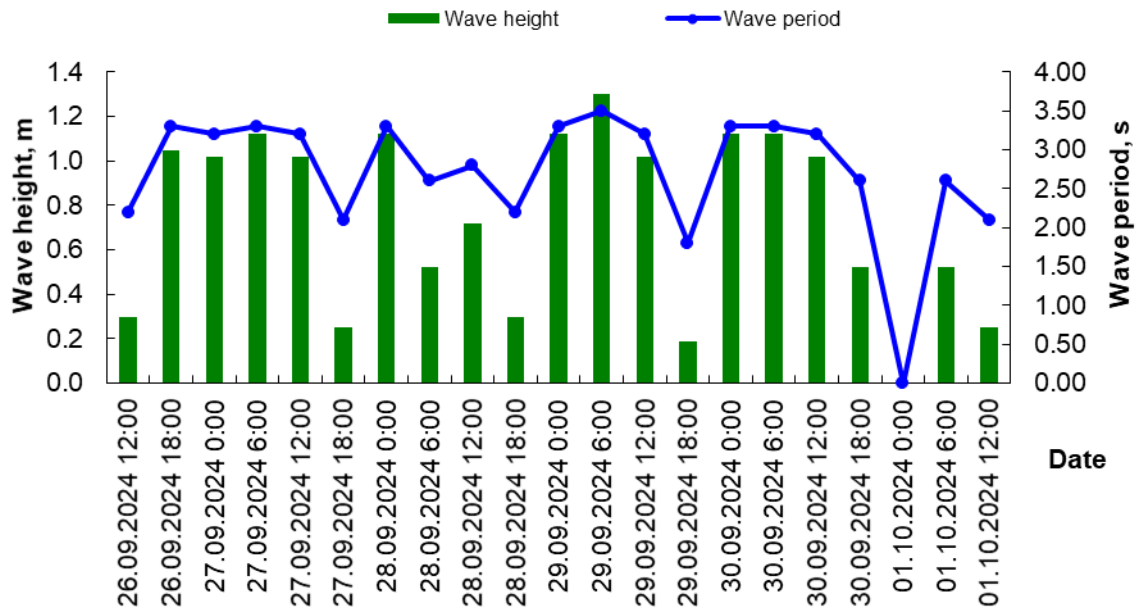


| Date Time | Wind speed (WS) and wind direction (WD) | | Wave height (H) and wave period (τ) | |
|------------------|---|----------|--|------|
| | WS, m/s | WD, rumb | H, m | t, s |
| 26.09.2024 12:00 | 7 | N | 0.70 | 2.80 |
| 26.09.2024 18:00 | 6 | N | 0.55 | 2.70 |
| 27.09.2024 0:00 | 7 | NW | 0.69 | 2.70 |
| 27.09.2024 6:00 | 10 | NW | 1.14 | 3.30 |
| 27.09.2024 12:00 | 9 | NW | 1.02 | 3.30 |
| 27.09.2024 18:00 | 8 | NW | 0.72 | 2.80 |
| 28.09.2024 0:00 | 7 | NW | 0.69 | 2.70 |
| 28.09.2024 6:00 | 9 | NW | 1.02 | 3.30 |
| 28.09.2024 12:00 | 9 | NW | 1.02 | 3.30 |
| 28.09.2024 18:00 | 8 | NW | 0.72 | 2.80 |
| 29.09.2024 0:00 | 9 | NW | 1.02 | 3.30 |
| 29.09.2024 6:00 | 11 | NW | 1.31 | 3.60 |
| 29.09.2024 12:00 | 11 | NW | 1.31 | 3.60 |
| 29.09.2024 18:00 | 9 | NW | 1.02 | 3.30 |
| 30.09.2024 0:00 | 9 | NW | 1.02 | 3.30 |
| 30.09.2024 6:00 | 11 | NW | 1.31 | 3.60 |
| 30.09.2024 12:00 | 11 | NW | 1.31 | 3.60 |
| 30.09.2024 18:00 | 8 | NW | 0.72 | 2.80 |
| 01.10.2024 0:00 | 4 | W | 0.20 | 1.80 |
| 01.10.2024 6:00 | 7 | NW | 0.69 | 2.70 |
| 01.10.2024 12:00 | 8 | N | 0.75 | 2.90 |

Wind condition in the 21142 unit

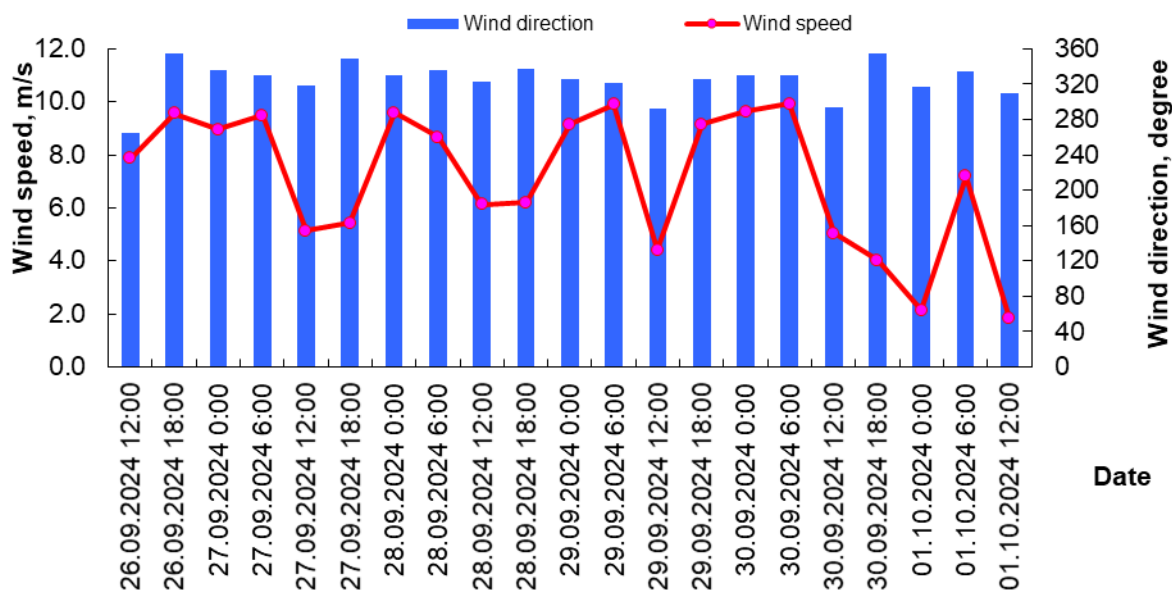


Wave condition in the 21142 unit

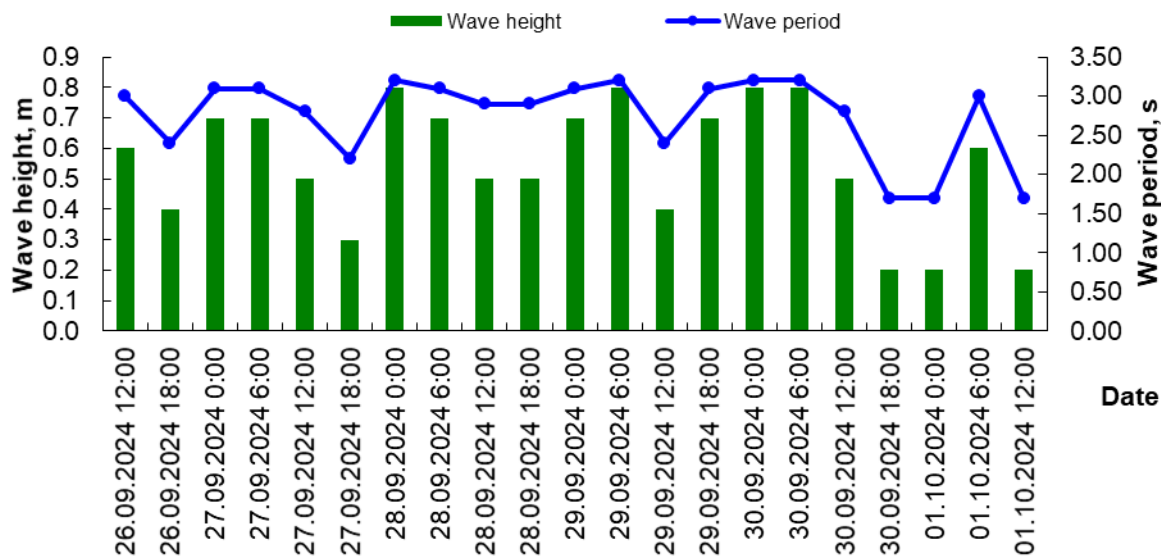


| Date Time | Wind speed (WS) and wind direction (WD) | | Wave height (H) and wave period (τ) | |
|------------------|---|----------|--|------|
| | WS, m/s | WD, rumb | H, m | t, s |
| 26.09.2024 12:00 | 5 | N | 0.30 | 2.20 |
| 26.09.2024 18:00 | 9 | N | 1.05 | 3.30 |
| 27.09.2024 0:00 | 9 | NW | 1.02 | 3.20 |
| 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 | 5 | NW | 0.25 | 2.10 |
| 28.09.2024 0:00 | 10 | NW | 1.12 | 3.30 |
| 28.09.2024 6:00 | 6 | NW | 0.52 | 2.60 |
| 28.09.2024 12:00 | 8 | NW | 0.72 | 2.80 |
| 28.09.2024 18:00 | 5 | N | 0.30 | 2.20 |
| 29.09.2024 0:00 | 10 | NW | 1.12 | 3.30 |
| 29.09.2024 6:00 | 11 | NW | 1.30 | 3.50 |
| 29.09.2024 12:00 | 9 | NW | 1.02 | 3.20 |
| 29.09.2024 18:00 | 4 | NW | 0.19 | 1.80 |
| 30.09.2024 0:00 | 10 | NW | 1.12 | 3.30 |
| 30.09.2024 6:00 | 10 | NW | 1.12 | 3.30 |
| 30.09.2024 12:00 | 9 | NW | 1.02 | 3.20 |
| 30.09.2024 18:00 | 6 | NW | 0.52 | 2.60 |
| 01.10.2024 0:00 | 2 | N | 0.00 | 0.00 |
| 01.10.2024 6:00 | 6 | NW | 0.52 | 2.60 |
| 01.10.2024 12:00 | 5 | NW | 0.25 | 2.10 |

Wind condition in the Bautino Bay

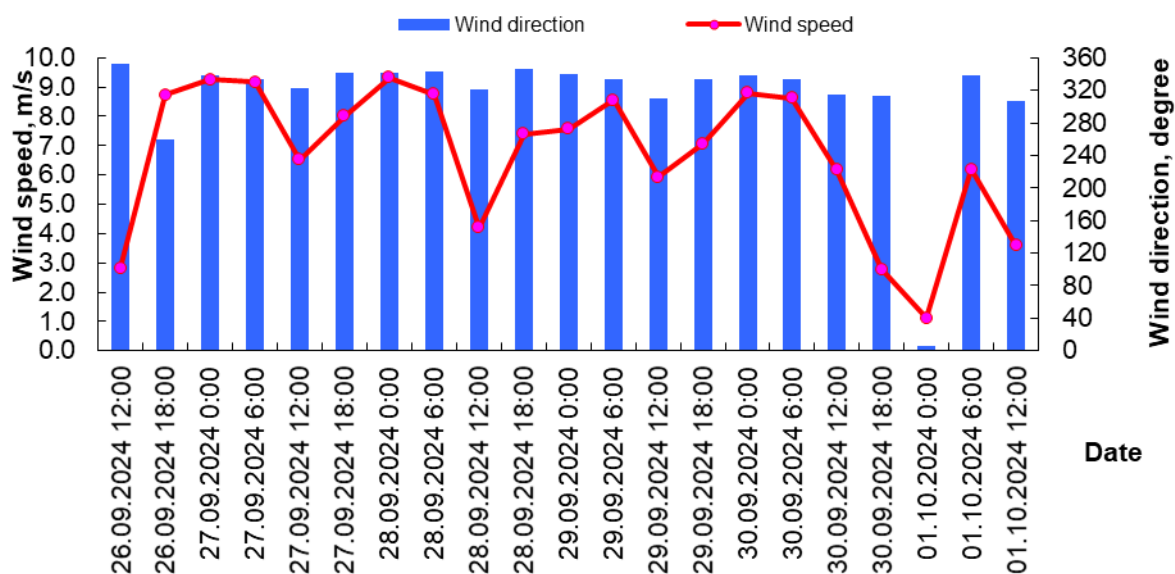


Wave condition in the Bautino Bay

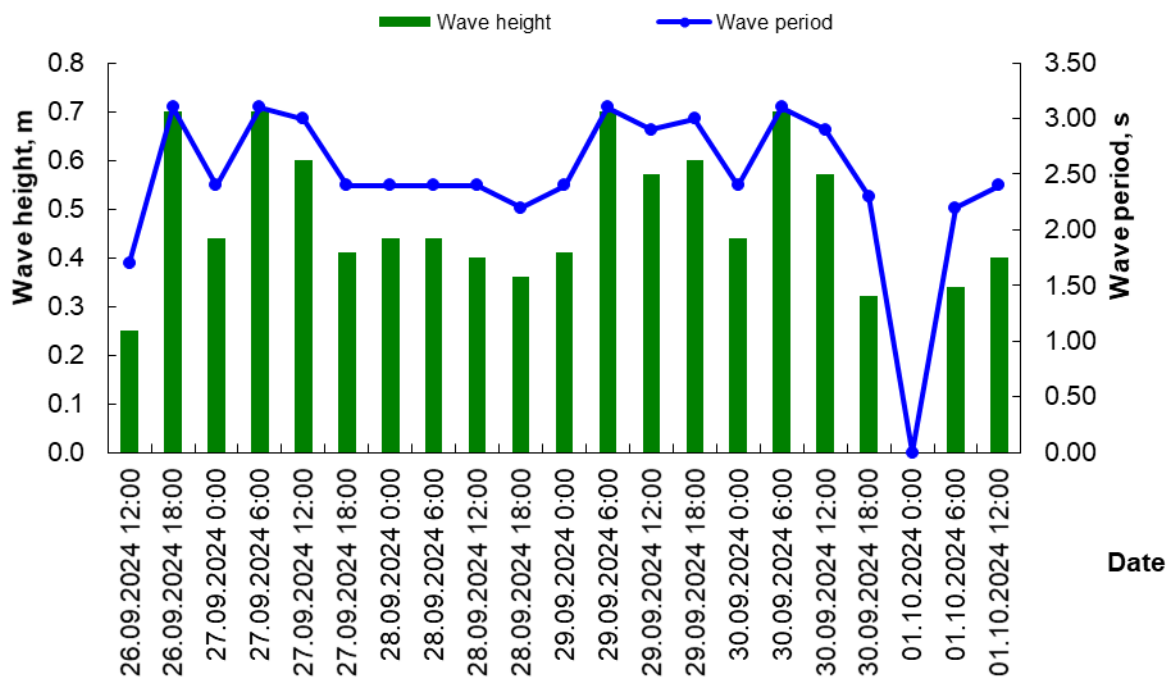


| Date Time | Wind speed (WS) and wind direction (WD) | | Wave height (H) and wave period (τ) | |
|------------------|---|----------|--|------|
| | WS, m/s | WD, rumb | H, m | t, s |
| | 26.09.2024 12:00 | 8 | W | 0.60 |
| 26.09.2024 18:00 | 10 | N | 0.40 | 2.40 |
| 27.09.2024 0:00 | 9 | NW | 0.70 | 3.10 |
| 27.09.2024 6:00 | 9 | NW | 0.70 | 3.10 |
| 27.09.2024 12:00 | 5 | NW | 0.50 | 2.80 |
| 27.09.2024 18:00 | 5 | N | 0.30 | 2.20 |
| 28.09.2024 0:00 | 10 | NW | 0.80 | 3.20 |
| 28.09.2024 6:00 | 9 | NW | 0.70 | 3.10 |
| 28.09.2024 12:00 | 6 | NW | 0.50 | 2.90 |
| 28.09.2024 18:00 | 6 | NW | 0.50 | 2.90 |
| 29.09.2024 0:00 | 9 | NW | 0.70 | 3.10 |
| 29.09.2024 6:00 | 10 | NW | 0.80 | 3.20 |
| 29.09.2024 12:00 | 4 | W | 0.40 | 2.40 |
| 29.09.2024 18:00 | 9 | NW | 0.70 | 3.10 |
| 30.09.2024 0:00 | 10 | NW | 0.80 | 3.20 |
| 30.09.2024 6:00 | 10 | NW | 0.80 | 3.20 |
| 30.09.2024 12:00 | 5 | NW | 0.50 | 2.80 |
| 30.09.2024 18:00 | 4 | N | 0.20 | 1.70 |
| 01.10.2024 0:00 | 2 | NW | 0.20 | 1.70 |
| 01.10.2024 6:00 | 7 | NW | 0.60 | 3.00 |
| 01.10.2024 12:00 | 2 | NW | 0.20 | 1.70 |

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 |
| 26.09.2024 12:00 | 3 | N | 0.25 | 1.70 |
| 26.09.2024 18:00 | 9 | W | 0.70 | 3.10 |
| 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 | N | 0.44 | 2.40 |
| 28.09.2024 12:00 | 4 | NW | 0.40 | 2.40 |
| 28.09.2024 18:00 | 7 | N | 0.36 | 2.20 |
| 29.09.2024 0:00 | 8 | N | 0.41 | 2.40 |
| 29.09.2024 6:00 | 9 | NW | 0.70 | 3.10 |
| 29.09.2024 12:00 | 6 | NW | 0.57 | 2.90 |
| 29.09.2024 18:00 | 7 | NW | 0.60 | 3.00 |
| 30.09.2024 0:00 | 9 | N | 0.44 | 2.40 |
| 30.09.2024 6:00 | 9 | NW | 0.70 | 3.10 |
| 30.09.2024 12:00 | 6 | NW | 0.57 | 2.90 |
| 30.09.2024 18:00 | 3 | NW | 0.32 | 2.30 |
| 01.10.2024 0:00 | 1 | N | 0.00 | 0.00 |
| 01.10.2024 6:00 | 6 | N | 0.34 | 2.20 |
| 01.10.2024 12:00 | 4 | NW | 0.40 | 2.40 |

Made by: Zhagparova N.N.

Checked by: Shishkina G.