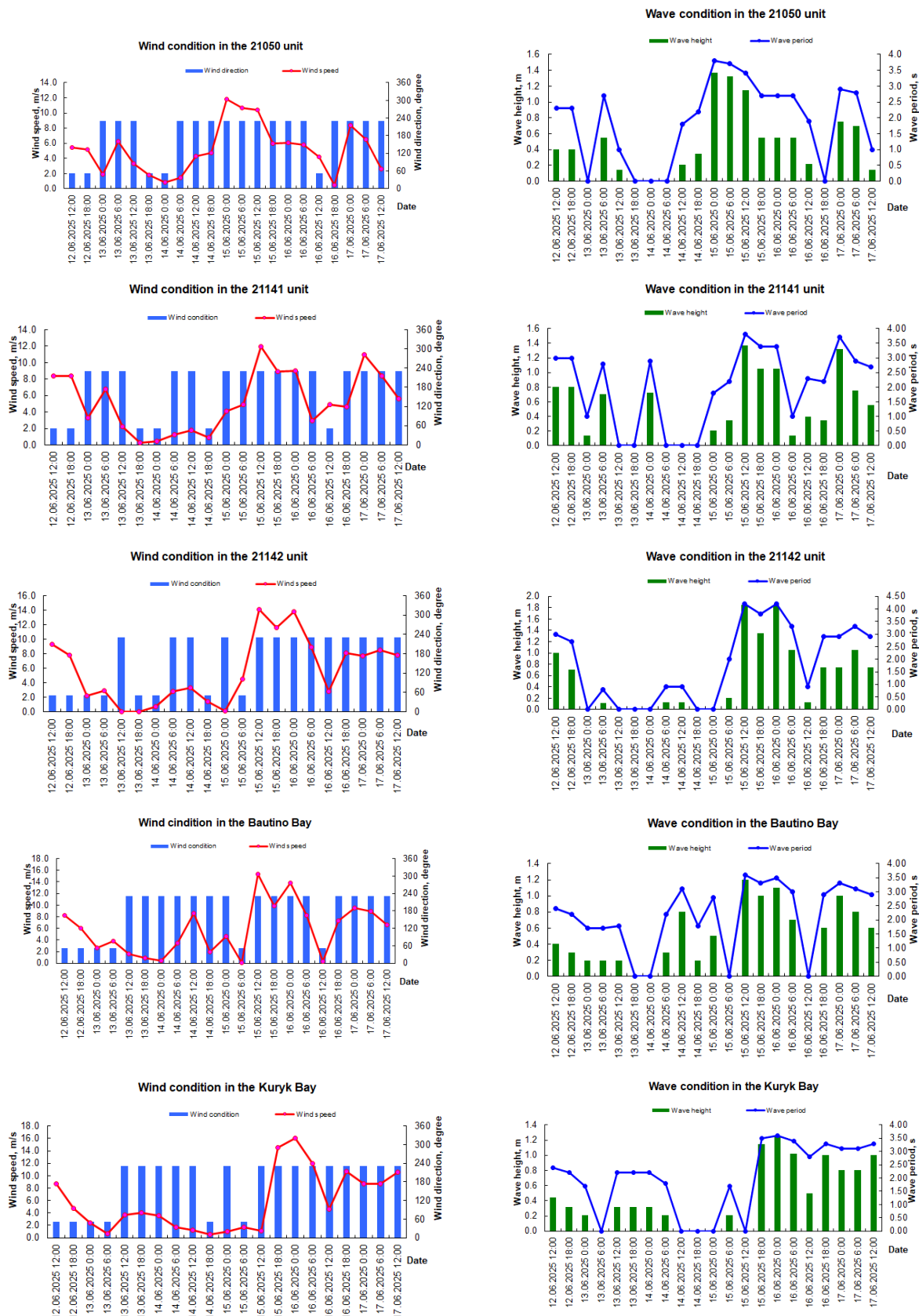




MINISTRY OF ECOLOGY AND NATURAL RESOURCES  
OF THE REPUBLIC OF KAZAKHSTAN  
RSE «KAZHYDROMET»  
SCIENTIFIC RESEARCH CENTER  
DEPARTMENT OF HYDROMETEOROLOGICAL RESEARCH OF THE CASPIAN SEA

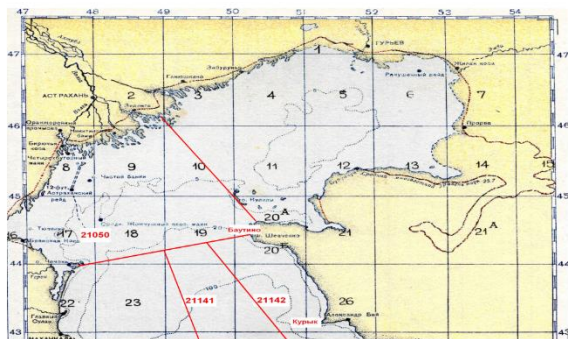
## №24 Wave Bulletin for the Middle Caspian Sea

**13.06.2025**



| Date, time       | 21050 area |              |         |         | 21141 area |              |         |         | 21142 area |              |         |         | Bautino Bay |              |         |         | Kuryk Bay  |              |         |         |
|------------------|------------|--------------|---------|---------|------------|--------------|---------|---------|------------|--------------|---------|---------|-------------|--------------|---------|---------|------------|--------------|---------|---------|
|                  | WS,<br>m/s | WD,<br>rhumb | H,<br>m | t,<br>s | WS,<br>m/s | WD,<br>rhumb | H,<br>m | t,<br>s | WS,<br>m/s | WD,<br>rhumb | H,<br>m | t,<br>s | WS,<br>m/s  | WD,<br>rhumb | H,<br>m | t,<br>s | WS,<br>m/s | WD,<br>rhumb | H,<br>m | t,<br>s |
| 12.06.2025 12:00 | 5          | NE           | 0.4     | 2.3     | 8          | NE           | 0.8     | 3.0     | 9          | NE           | 1.0     | 3.0     | 8           | NE           | 0.4     | 2.4     | 9          | NE           | 0.4     | 2.4     |
| 12.06.2025 18:00 | 5          | NE           | 0.4     | 2.3     | 8          | NE           | 0.8     | 3.0     | 8          | NE           | 0.7     | 2.7     | 6           | NE           | 0.3     | 2.2     | 5          | NE           | 0.3     | 2.2     |
| 13.06.2025 0:00  | 2          | SW           | 0.0     | 0.0     | 3          | SW           | 0.1     | 1.0     | 2          | NE           | 0.0     | 0.0     | 3           | NE           | 0.2     | 1.7     | 2          | NE           | 0.2     | 1.7     |
| 13.06.2025 6:00  | 6          | SW           | 0.6     | 2.7     | 7          | SW           | 0.7     | 2.8     | 3          | NE           | 0.1     | 0.8     | 4           | NE           | 0.2     | 1.7     | 1          | NE           | 0.0     | 0.0     |
| 13.06.2025 12:00 | 3          | SW           | 0.1     | 1.0     | 2          | SW           | 0.0     | 0.0     | 0          | SW           | 0.0     | 0.0     | 2           | SW           | 0.2     | 1.8     | 4          | SW           | 0.3     | 2.2     |
| 13.06.2025 18:00 | 2          | NE           | 0.0     | 0.0     | 0          | NE           | 0.0     | 0.0     | 0          | NE           | 0.0     | 0.0     | 1           | SW           | 0.0     | 0.0     | 4          | SW           | 0.3     | 2.2     |
| 14.06.2025 0:00  | 1          | NE           | 0.0     | 0.0     | 0          | NE           | 0.7     | 2.9     | 1          | NE           | 0.0     | 0.0     | 0           | SW           | 0.0     | 0.0     | 4          | SW           | 0.3     | 2.2     |
| 14.06.2025 6:00  | 1          | SW           | 0.0     | 0.0     | 1          | SW           | 0.0     | 0.0     | 3          | SW           | 0.1     | 0.9     | 3           | SW           | 0.3     | 2.2     | 2          | SW           | 0.2     | 1.8     |
| 14.06.2025 12:00 | 4          | SW           | 0.2     | 1.8     | 2          | SW           | 0.0     | 0.0     | 3          | SW           | 0.1     | 0.9     | 9           | SW           | 0.8     | 3.1     | 1          | SW           | 0.0     | 0.0     |
| 14.06.2025 18:00 | 5          | SW           | 0.4     | 2.2     | 1          | NE           | 0.0     | 0.0     | 1          | NE           | 0.0     | 0.0     | 2           | SW           | 0.2     | 1.8     | 0          | NE           | 0.0     | 0.0     |
| 15.06.2025 0:00  | 12         | SW           | 1.4     | 3.8     | 4          | SW           | 0.2     | 1.8     | 0          | SW           | 0.0     | 0.0     | 5           | SW           | 0.5     | 2.8     | 1          | SW           | 0.0     | 0.0     |
| 15.06.2025 6:00  | 11         | SW           | 1.3     | 3.7     | 5          | SW           | 0.4     | 2.2     | 5          | NE           | 0.2     | 2.0     | 0           | NE           | 0.0     | 0.0     | 2          | NE           | 0.2     | 1.7     |
| 15.06.2025 12:00 | 10         | SW           | 1.2     | 3.4     | 12         | SW           | 1.4     | 3.8     | 14         | SW           | 1.9     | 4.2     | 15          | SW           | 1.2     | 3.6     | 1          | SW           | 0.0     | 0.0     |
| 15.06.2025 18:00 | 6          | SW           | 0.6     | 2.7     | 9          | SW           | 1.1     | 3.4     | 12         | SW           | 1.4     | 3.8     | 10          | SW           | 1.0     | 3.3     | 14         | SW           | 1.2     | 3.5     |
| 16.06.2025 0:00  | 6          | SW           | 0.6     | 2.7     | 9          | SW           | 1.1     | 3.4     | 14         | SW           | 1.9     | 4.2     | 14          | SW           | 1.1     | 3.5     | 16         | SW           | 1.3     | 3.6     |
| 16.06.2025 6:00  | 6          | SW           | 0.6     | 2.7     | 3          | SW           | 0.1     | 1.0     | 9          | SW           | 1.1     | 3.3     | 8           | SW           | 0.7     | 3.0     | 12         | SW           | 1.0     | 3.4     |
| 16.06.2025 12:00 | 4          | NE           | 0.2     | 1.9     | 5          | NE           | 0.4     | 2.3     | 3          | SW           | 0.1     | 0.9     | 0           | NE           | 0.0     | 0.0     | 5          | SW           | 0.5     | 2.8     |
| 16.06.2025 18:00 | 0          | SW           | 0.0     | 0.0     | 5          | SW           | 0.4     | 2.2     | 8          | SW           | 0.8     | 2.9     | 7           | SW           | 0.6     | 2.9     | 11         | SW           | 1.0     | 3.3     |
| 17.06.2025 0:00  | 8          | SW           | 0.8     | 2.9     | 11         | SW           | 1.3     | 3.7     | 8          | SW           | 0.8     | 2.9     | 10          | SW           | 1.0     | 3.3     | 9          | SW           | 0.8     | 3.1     |
| 17.06.2025 6:00  | 7          | SW           | 0.7     | 2.8     | 8          | SW           | 0.8     | 2.9     | 9          | SW           | 1.1     | 3.3     | 9           | SW           | 0.8     | 3.1     | 9          | SW           | 0.8     | 3.1     |
| 17.06.2025 12:00 | 3          | SW           | 0.1     | 1.0     | 6          | SW           | 0.6     | 2.7     | 8          | SW           | 0.8     | 2.9     | 7           | SW           | 0.6     | 2.9     | 11         | SW           | 1.0     | 3.3     |

WS – wind speed; WD - wind direction; H - wave height; t - wave period.



Schematic diagram of the areas in the middle part of the Caspian Sea

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