

Hydrological Change Analysis Report

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Study Information

Study Area: Masuria, Poland

Data Source: sentinel-2

Date Range: last-6-months

Summary

Water Bodies Detected

Total count: 19

Total area: 244.50 km²

Total perimeter: 62.27 km

Largest water body: 146.70 km²

Analysis Parameters

Preprocessing method: ndwi

Model type: cnn

Detection threshold: 0.67

Additional Data Sources Used

- ERA5 Reanalysis

- Polish Water Authority

Visualizations

Time Series Analysis

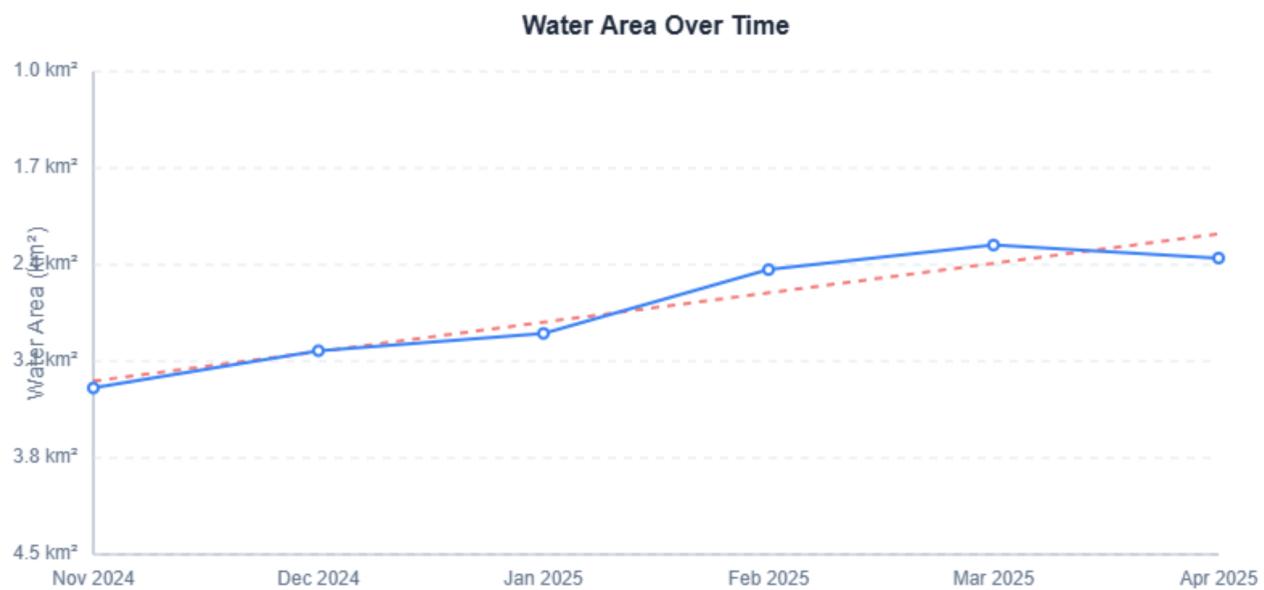


Figure 2: Water area changes over time showing historical trends

Time Series Data

Date	Water Area (km ²)
2024-11-08	320.55
2024-12-08	324.13
2025-01-08	325.80
2025-02-08	331.94
2025-03-08	334.30
2025-04-08	333.05