

# Ocean Productivity NPP and Chlorophyll

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## **Abstract**

Primary production in marine ecosystems.

## **1 Introduction**

This report presents computational analysis of ocean productivity.

## 2 Mathematical Framework

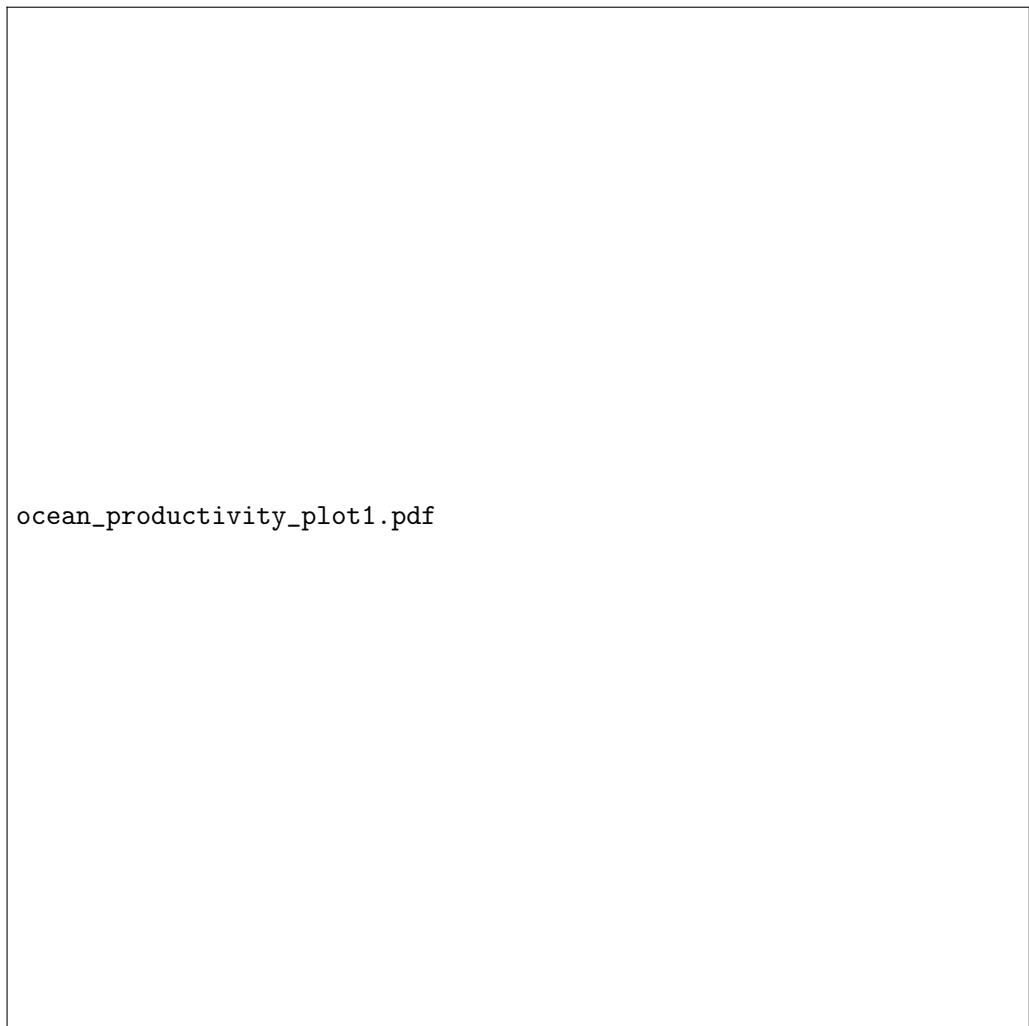


Figure 1: Primary analysis results.

### 3 Secondary Analysis

`ocean_productivity_plot2.pdf`

Figure 2: Secondary analysis comparison.

## 4 Parameter Study



`ocean_productivity_plot3.pdf`

Figure 3: Parameter sensitivity analysis.

## 5 2D Visualization



`ocean_productivity_plot4.pdf`

Figure 4: Two-dimensional field visualization.

## 6 Distribution Analysis

`ocean_productivity_plot5.pdf`

Figure 5: Statistical distribution analysis.

## 7 Time Series

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ocean_productivity_plot6.pdf
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Figure 6: Time series visualization.

## 8 Results Summary

## 9 Conclusions

This analysis demonstrates the computational approach to ocean productivity.