

Food Web Dynamics

Trophic Levels

Ecology Research Group

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Abstract

Energy flow and stability in ecological networks.

1 Introduction

This report presents computational analysis of food webs.

2 Mathematical Framework

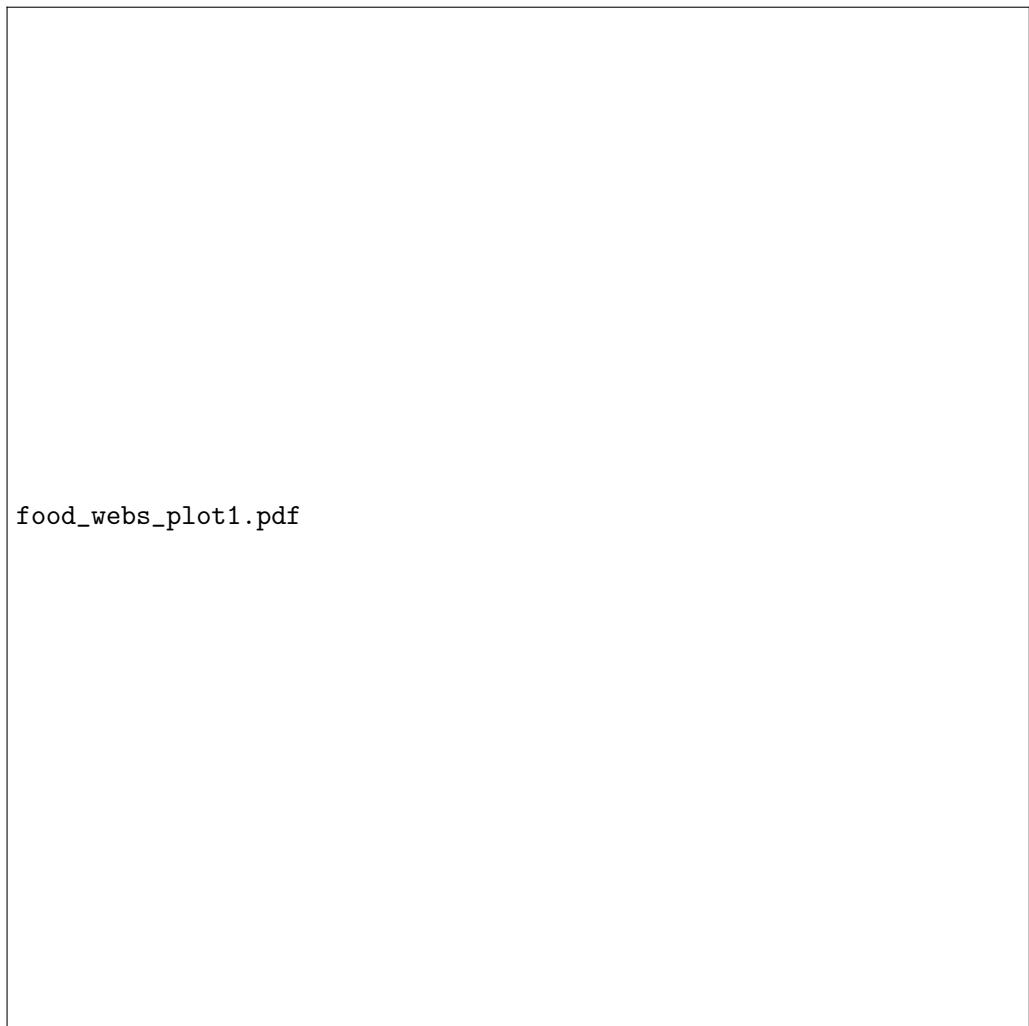


Figure 1: Primary analysis results.

3 Secondary Analysis

food_webs_plot2.pdf

Figure 2: Secondary analysis comparison.

4 Parameter Study

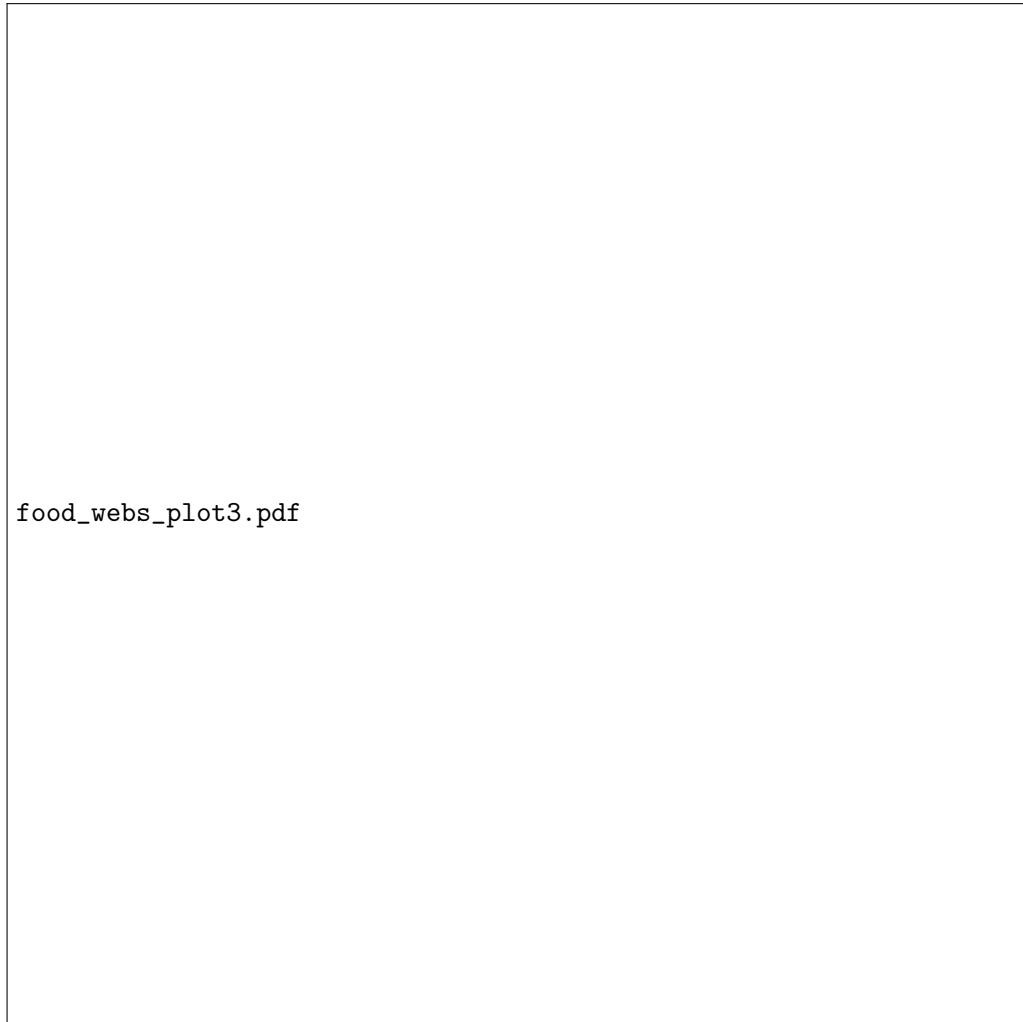


Figure 3: Parameter sensitivity analysis.

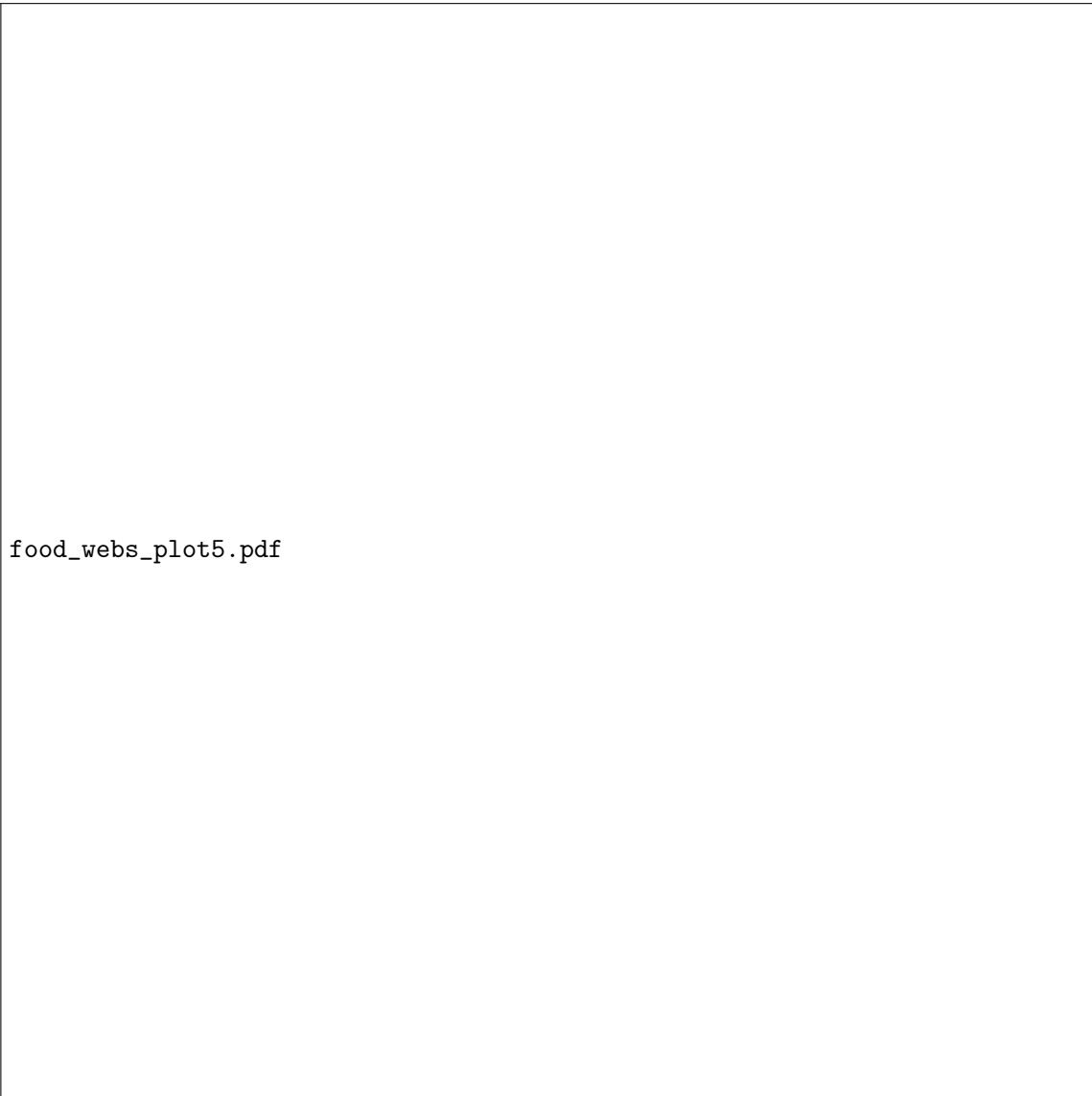
5 2D Visualization



food_webs_plot4.pdf

Figure 4: Two-dimensional field visualization.

6 Distribution Analysis



food_webs_plot5.pdf

Figure 5: Statistical distribution analysis.

7 Time Series



food_webs_plot6.pdf

Figure 6: Time series visualization.

8 Results Summary

9 Conclusions

This analysis demonstrates the computational approach to food webs.