Grading Scale for Model Implementations

Report Format: 3 pp. (max), Single spaced, 12 pt font. Write in complete paragraphs. Number figures consecutively and refer to them in order in the text. Write a brief caption for each figure and label all figures properly. Effective scientific communication is an essential skill that you'll practice extensively in this course!

Point breakdown (50 total):

Introduction (5 pts) –

The authors' intentions; what was the experimental system; why is this biologically relevant, including assumptions.

Model explanation (5 pts) -

Brief overview of your success or difficulties in implementing the model.

Modifications discussion (5 pts) -

Discussion of your choice of the modification, its biological rationale. Reflexive parametric sensitivity without theoretical justification is low on creativity.

Conclusions (5 pts) –

How robust was the model, did it fit the data, did it describe the biological phenomenon of interest well, can it be extended readily, in what parametric regimes did it apply, where were inconsistencies if any.

Reproduction of figures from paper (10 pts)

Modified plots (10 pts) –

The results of your extensions to the published model.

Matlab® code (10 pts) –

Entire code in electronic form as run, will be tested by TAs for executability. Commented code is appreciated!