

Instructions for running the individual-based Dynamic Energy Budget *Schistosoma* population model (SIDEb) on Windows

Matthew Malishev^{1*} & David J. Civitello¹

¹ *Department of Biology, Emory University, 1510 Clifton Road NE, Atlanta, GA, USA, 30322*

Contents

Overview	3
Required files	3
Install R RStudio	3
Install NetLogo	3
Run RNetLogo	3
References	3

Date: 2019-01-16

R version: 3.5.0

*Corresponding author: matthew.malishev@gmail.com

This document can be found at <https://github.com/darwinanddavis/SchistoIBM/tree/master/windows>

R session info

R version 3.5.0 (2018-04-23)

Platform: x86_64-apple-darwin15.6.0 (64-bit)

Running under: OS X El Capitan 10.11.6

Matrix products: default

BLAS: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRblas.0.dylib

LAPACK: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRlapack.dylib

locale:

[1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8

attached base packages:

[1] stats graphics grDevices utils datasets methods base

loaded via a namespace (and not attached):

[1]	compiler_3.5.0	backports_1.1.2	magrittr_1.5	rprojroot_1.3-2	tools_3.5.0	htmltools_0.3.6
[7]	pillar_1.2.3	tibble_1.4.2	yaml_2.2.0	Rcpp_0.12.19	stringi_1.2.3	rmarkdown_1.10
[13]	knitr_1.20	stringr_1.3.1	digest_0.6.15	rlang_0.3.0.1	evaluate_0.10.1	

Overview

Follow the instructions to run the simulation model from R or RStudio. All reports and bugs should be addressed to matthew.malishev@gmail.com.

Required files

Files required for running the simulation are outlined below and will be automatically loaded from the [Schistosoma IBM Github page](#) when running the model:

```
DEB_IBM.R  
DEB_INF_GUTS_IBM.nlogo  
FullStarve_shrink_production2.Rda  
IndividualModel_IBM.c  
IndividualModel_IBM.dll (Windows, generated from C)
```

Install R RStudio

Install RStudio from the RStudio [website](#).

Install NetLogo

Install NetLogo from the NetLogo [website](#).

Run RNetLogo

Load the ‘DEB_IBM.R’ file into your R session. Follow the instructions to load the model and execute the simulation.

References

¹ [Installing R Studio](#)

² [Installing NetLogo](#)