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

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Contents

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R version: 3.5.0
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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  tools_3.5.0     htmltools_0.4.0 pillar_1.4.3     rstudioapi_0.10 tibble_2.1.3
 [7] yaml_2.2.0      crayon_1.3.4    Rcpp_1.0.3      rmarkdown_2.0   knitr_1.26      xfun_0.11
[13] digest_0.6.23   pkgconfig_2.0.3 rlang_0.4.2     evaluate_0.14
```

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