

Title – Name of Model

Simulation

Data Table

Model

R Code

References

Main Plot

simulation plot – includes drawing of:
state variable(s)
breakpoints
ews statistic(s)

Radio Buttons for State Variables

Quick Analysis

Advanced Analysis

Customize
Graph

Side Panel

input boxes and
input sliders to
control the model's
parameter values

Arguments

input boxes and
input dropdowns
to control
arguments for
decomposition,
breakpoint,
and ews
statistic methods;
the run button
to execute
analyses

Output

for decomposition plot,
breakpoints (including:
number of breakpoints,
location, and a
checkbox for drawing),
radio buttons to toggle
ews statistics, a
download button for the
ews statistics,
a checkbox to draw
ews statistic table,
and the ews table

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References

Main Plot

simulation plot – includes drawing of:
state variable(s)
breakpoints
ews statistic(s)

Radio Buttons for State Variables

Quick Analysis

Advanced Analysis

Customize
Graph

General Arguments

input boxes and
input dropdowns
to control
arguments for
decomposition,
and run button
to execute
analyses

Output

for decomposition plot,
breakpoints (including:
number of breakpoints,
location, and a
checkbox for drawing),
radio buttons to toggle
ews statistics, a
download button for the
ews statistics,
a checkbox to draw
ews statistic table,
and the ews table

Tipping Point Parameters

input boxes and
input dropdowns to
control arguments
for breakpoint
method

EWS Parameters

input boxes and
input dropdowns to
control arguments
for ews method

Breakpoint hyperlink

EWS hyperlinks

Side Panel

input boxes and
input sliders to
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simulation plot – includes drawing of:
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breakpoints
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Side Panel

input boxes and
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Quick Analysis

Advanced Analysis

Customize
Graph

Customize Graph Input

input boxes to change the main plot's title
y-axis, x-axis, and state variable names

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References

Text: “Data Table for Model Simulation:”

Download Button

download main data table

Side Panel

input boxes and
input sliders to
control the model's
parameter values

Main Data Table

data table for displaying state variable
values based on “side panel” parameter
values, as calculated by the model's code

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Text: Name of the Model

Text: Equations for the Model

Text: Model Parameter Explanations

Side Panel

input boxes and
input sliders to
control the model's
parameter values

R Code

implementation of the model in R