Reference Card: enaR (v1.01)

Stuart R. Borrett

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Data Input

pack() – helps consolidate ENA network data and create an R network data object
unpack() – extracts ENA network data elements from an R network data object
read.scor() – reads a SCOR formatted data file and creates an enaR data object
read.wand()– reads a SCOR formatted data file and creates an enaR data object

balance(x = "network object"**)**– applies automatic balancing algorithm to x
ssCheck(x = "network object"**)**– checks to see if network model is at steady-state

Ecological Network Analysis

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enaStructure(x = "network object"**)** – performs structural analysis on network model x
enaFlow(x = "network object" **)** - performs flow analysis on network model x
enaStorage(x = "network object" **)** - performs storage analysis on network model x
enaUtility(x = "network object" **)** - performs utility analysis on network model x
enaControl(x = "network object" **)** - performs control analysis on network model x
enviorn(x = "network object" **)** - performs unit environ analysis on network model x

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enaAscendency(x = "network object" **)** – returns information indices (e.g., ascendency, ami) for model x
mixedTrophicImpacts(x = "network object" **)** - performs mixed trophic impacts analysis

Miscellaneous Functions

get.ns(x = "network object" **)** – returns whole network statistics from all ENA algorithms
mExp(x = "matrix", m**)** – performs matrix exponentiation raising matrix x to the power m
TET(x = "network object" **)** – find total environ throughflows

50 SCOR formatted trophic ecosystem models are available from
http://people.uncw.edu/borretts/documents/ecosystem_networks_50_trophic.tgz