

Description of Variables in the keystones.csv file

Variable	Description
Taxon	Tthe taxon identification
Ecosystem	Ecosystem associated with Habitat
Habitat	Habitat at which samples were taken
Abundance	Mean relative number of reads of taxon in samples from Habitat, in percentage. Column should add to in each Habitat.
AbundanceAbsolute	Mean relative number of reads of taxon in samples from Habitat.
Marker	Marker symbol. Used for diagnostic plots.
Median	Median number of reads for taxon in samples from Habitat
Prevalence	Proportion of samples from Habitat in which taxon was detected
Sem	Standard error of the number of reads of taxon in samples from Habitat
Std	Standard deviation of the number of reads of taxon in samples from Habitat
BC	Betweenness Centrality. Defined as the number of shortest paths between all pairs of nodes in the Habitat network that pass through the node representing the Taxon.
D	Degree. Defined as the number of edges connected to the node representing the Taxon in the Habitat network.
DxCC	Product of Degree and Closeness Centrality. Closeness centrality is defined as the inverse of the sum of the shortest path distances from the node representing the Taxon to all other nodes in the Habitat network.
LIASP	Largest Impact on Average Shortest Path. Defined in the main text.
LIASPdir	Direct component of LIASP. Defined in the main text.
LIASPindir	Indirect component of LIASP. Defined in the main text.
effOriginal	Efficiency of the network representing the Habitat before the Taxon is removed. Defined in the main text.
effRemoved	Efficiency of the network representing the Habitat after the Taxon is removed. Defined in the main text.
totalEffChange	Total change in the efficiency the network representing the Habitat when the Taxon is removed. Defined in the main text.
dirEffChange	Direct component of the change in the efficiency the network representing the Habitat when the Taxon is removed. Defined in the main text.
indirEffChange	Indirect component of the change in the efficiency the network representing the Habitat when the Taxon is removed. Defined in the main text.
VARIABLE_isKeystone	Boolean (1/0) variable indicating if the value of VARIABLE for this taxon is above the treshold given by $MEDIAN(VARIABLE) + 2 * STANDARD_DEVIATIONS(VARIABLE)$ [1] or not [0], when considering the distribution of VARIABLE for the Habitat
VARIABLE_scaled	The scaled value of the variable, with the largest occurrence in the Habitat assigned to 1 and remaining occurrences scaled as $VALUE/MAX(VARIABLE)$

Variable	Description
VARIABLE_rank	The rank of the Taxon when all Taxa in the Habitat are ordered by increasing values of the variable, with the smallest value observed in the Habitat assigned to 1
VARIABLE_zScore	The z-score of the variable, scaled as $(\text{VALUE} - \text{MEAN}(\text{VARIABLE}))/\text{STANDARD_DEVIATION}(\text{VARIABLE})$