Figures and results for main manuscript

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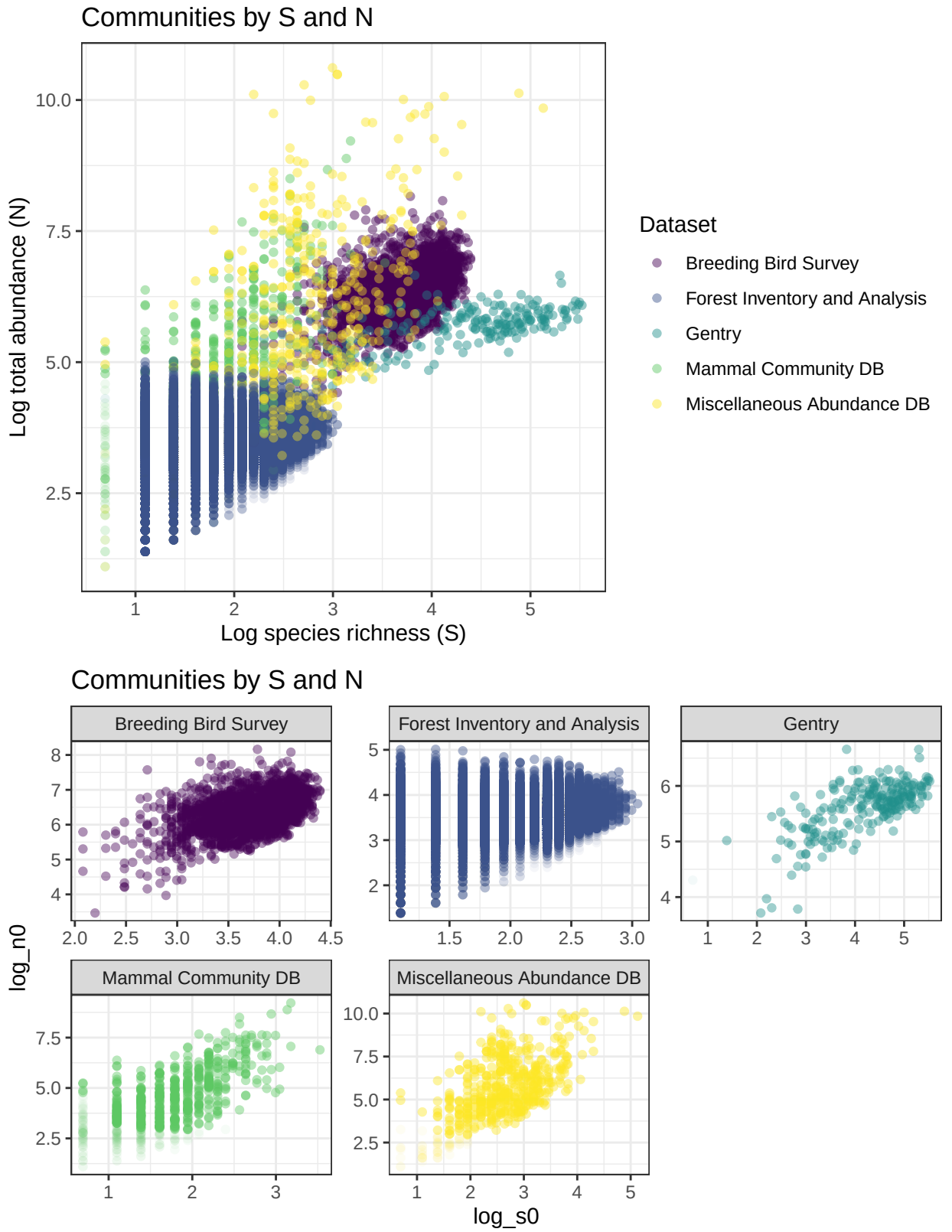
2020-11-30

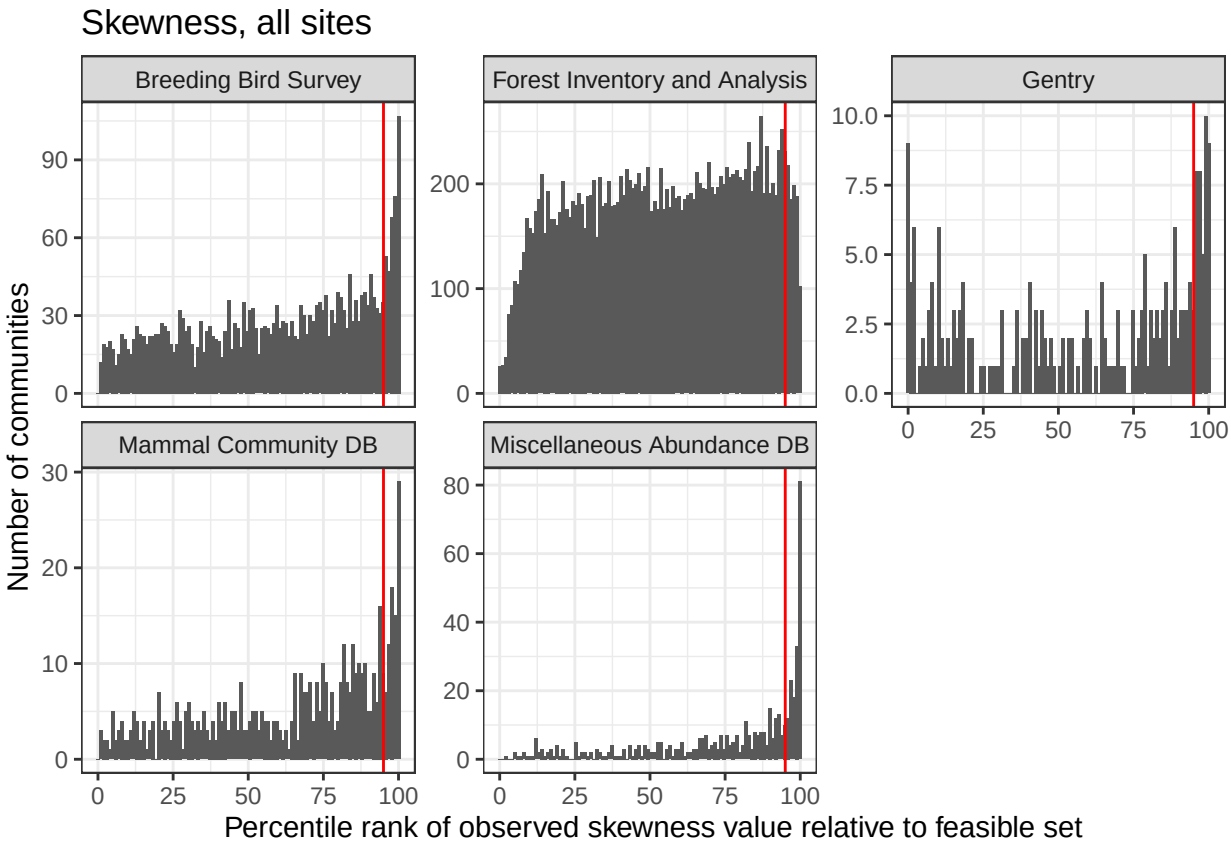
Final dataset in S and N space

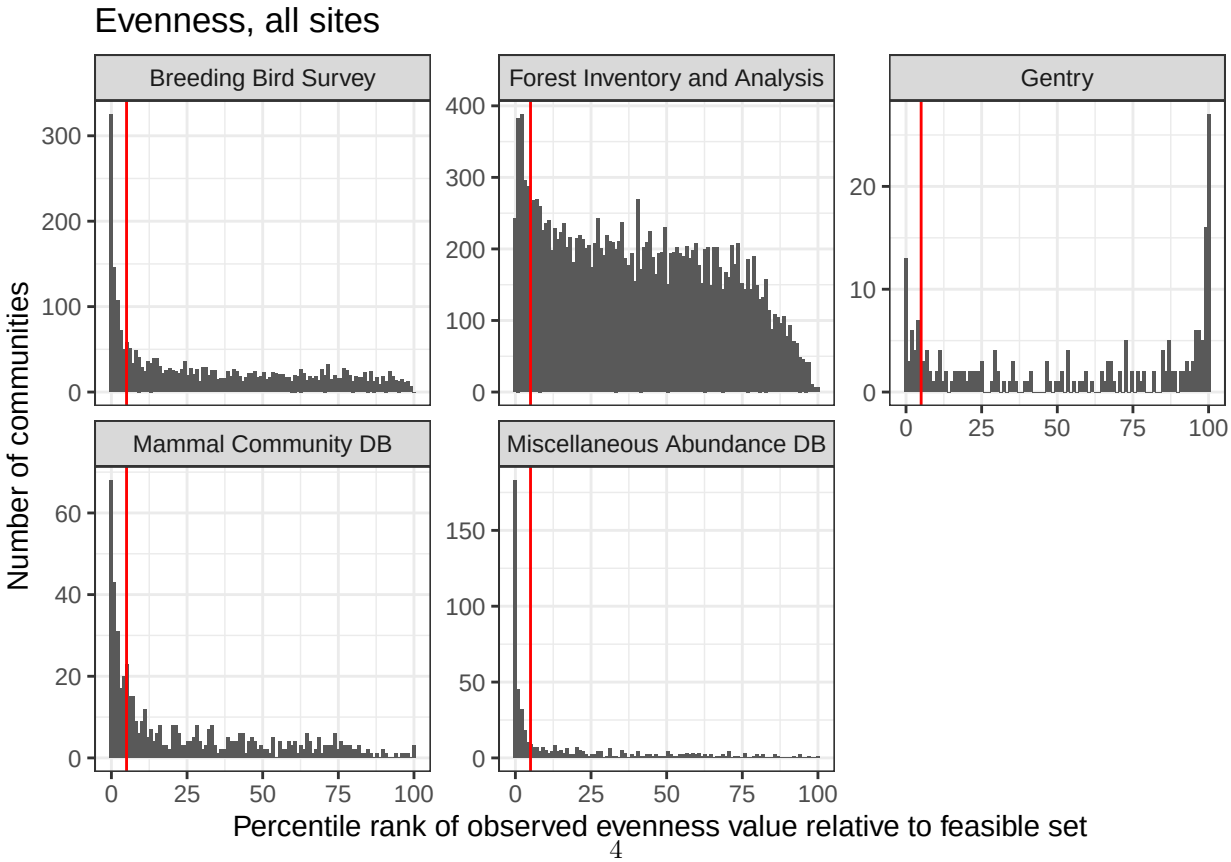


Illustrations of 95% interval

To show the 95% interval, we need to load the distribution of shape metric values from the samples from the feasible set for a few communities.

Skewness and evenness histograms by dataset





Proportion of sites with highly skewed or uneven SADs

```
## `summarise()` ungrouping output (override with `.groups` argument)
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## Joining, by = "Dataset"
```

Dataset	Proportion of communities with skewness above 95th percentile	Number of communities analyzed for skewness	Proportion of communities with evenness below 5th percentile	Number of communities analyzed for evenness
Breeding Bird Survey	0.1301839	2773	0.2596466	2773
Forest Inventory and Analysis	0.0542077	18300	0.0939657	18113
Gentry	0.1883408	223	0.1517857	224
Mammal Community DB	0.1582868	537	0.3542435	542
Miscellaneous Abundance DB	0.3455285	492	0.5959184	490

```
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## Joining, by = "Dataset"
```
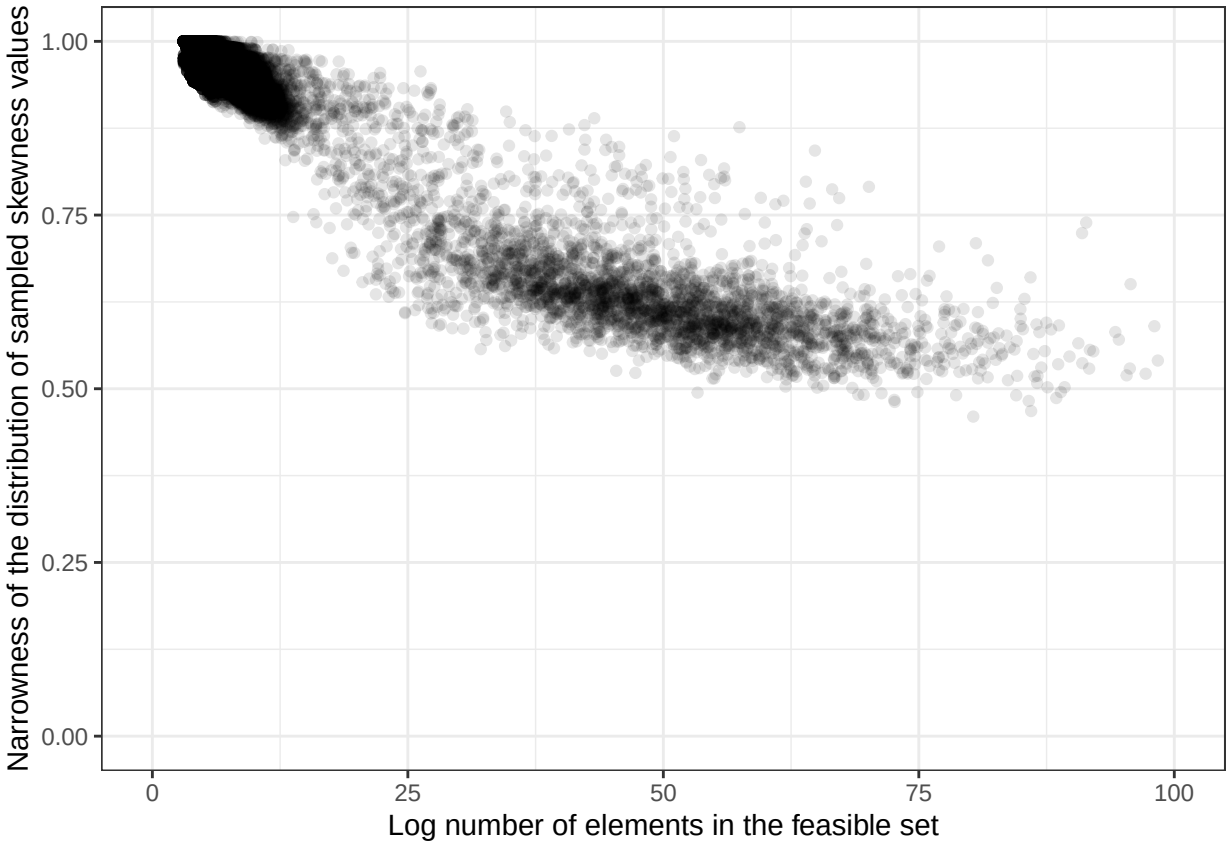

Dataset	Proportion of communities with skewness above 95th percentile	Number of communities analyzed for skewness	Proportion of communities with evenness below 5th percentile	Number of communities analyzed for evenness
Forest Inventory and Analysis	0.0542077	18300	0.0939657	18113
Other datasets	0.1634783	4025	0.3072723	4029

95 intervals by size of FS

```
## Warning: Removed 30 rows containing missing values (geom_point).
```




```
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```
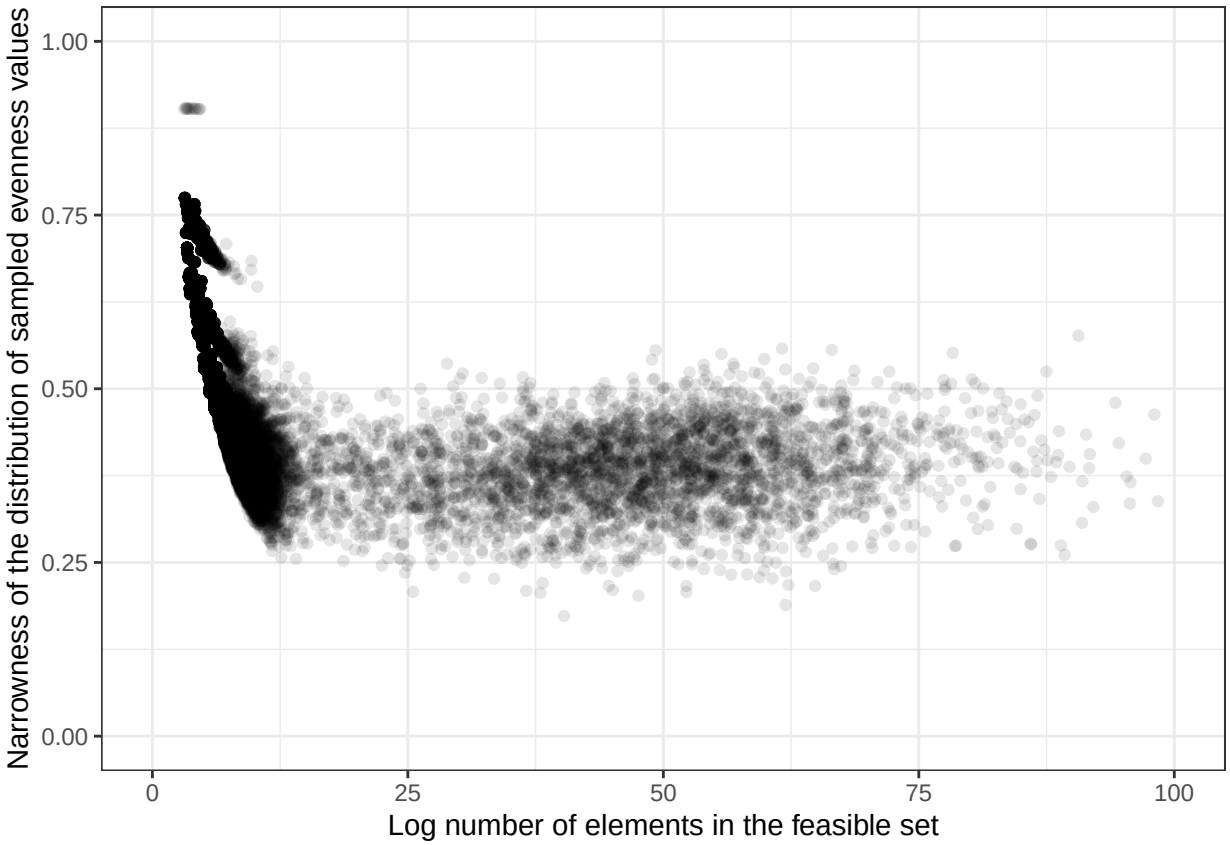
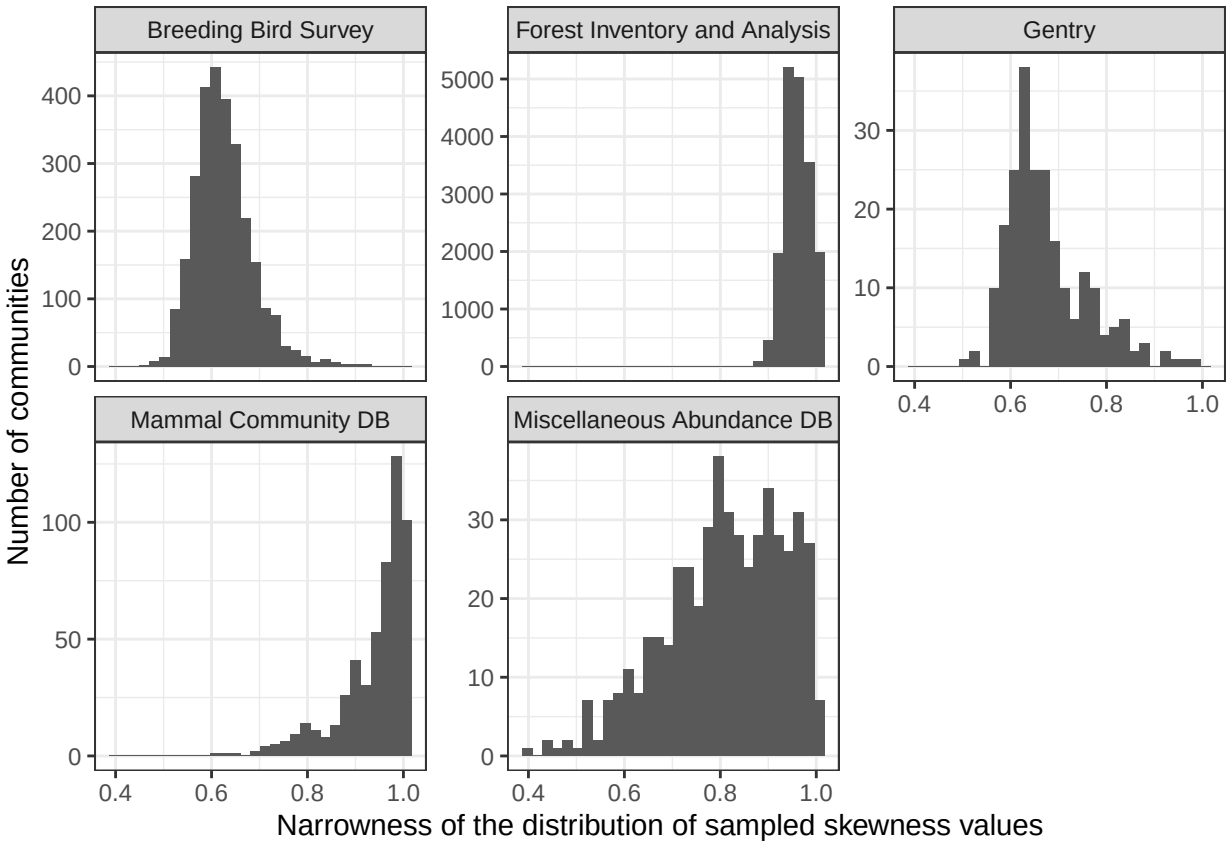



95 intervals by dataset

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

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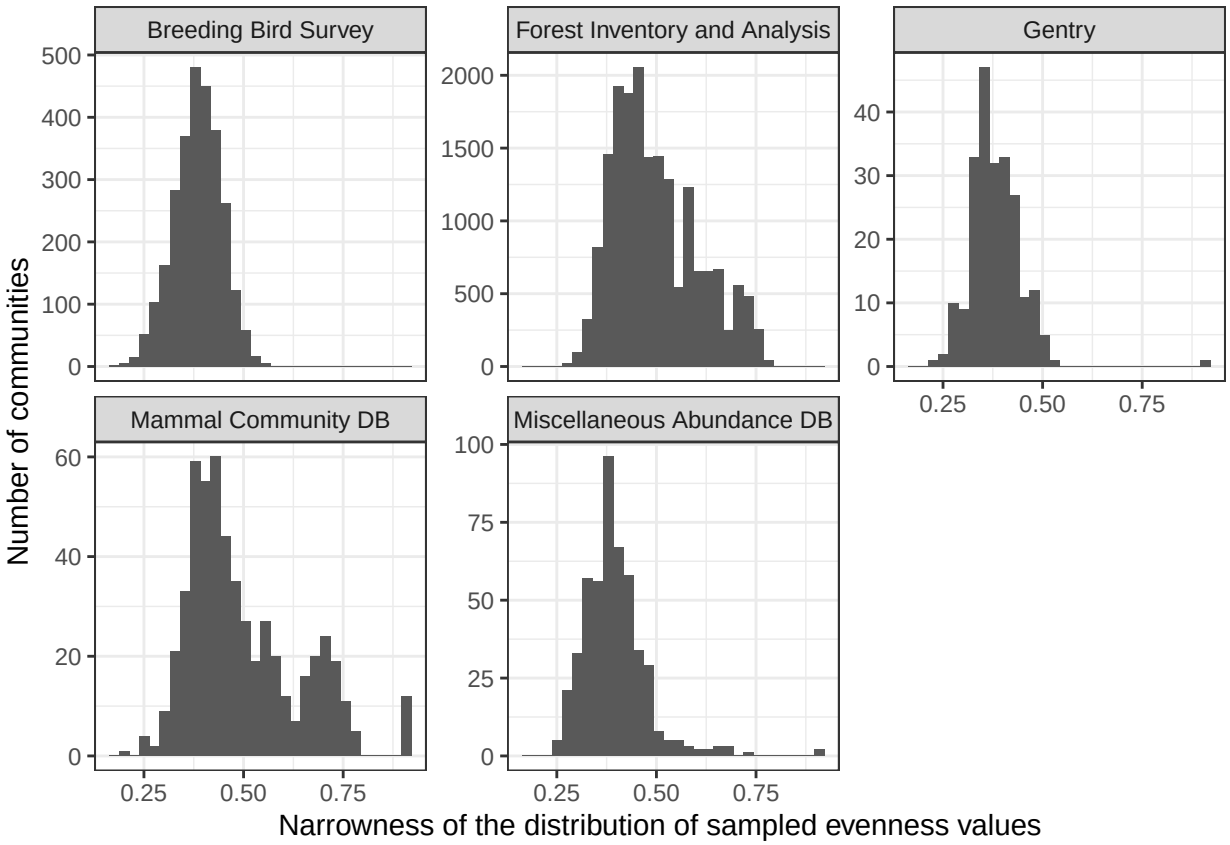
Breeding Bird Survey
Forest Inventory and Analysis
Gentry
Mammal Community DB
Miscellaneous Abundance DB
Number of communities
Narrowness of the distribution of sampled evenness values