No official metadata has been created for these arc grids. The files in these folders represent projected shifts in species ranges in response to projected changes in climate. The folders are organized by taxon, general circulation model run, emissions scenario, and time period.

The time periods are thirty-year intervals overwhich the climate projections were averaged.

The folder names refer to:

1. Taxonomic group (bird, mammal, amphibian)

2. General circulation model (e.g., ukmo-hadcm3\_run1, see on-line supporting material for Lawler et al. 2009 for a list of all GCMs and corresponding references)

Lawler, J. J., S. L. Shafer, D. White, P. Kareiva, E. P. Maurer, A. R. Blaustein, and P. J. Bartlein. 2009.

Projected climate-induced faunal change in the western hemisphere. Ecology 90:588-597.

3. Emissions scenarios (a2 - mid-high, a1b - mid, a2 - low) \*\*\*should be b1\*\*\*

4. Time periods (averaged 30 year periods, 2011-2040, 2041-2070, 2070-2100 [and sometimes 2071-2099])

The ascii grid file names correspond to species names in the files:

bird-names-best.csv

mammal-names-best.csv

amphibs-names-best.csv

The bird and mammal name files contain common names and scientific names. The name file for the amphibians includes only scientific names.

All grids have the following projection:

projection cylindrical

units meters

parameters

1

0 0 0

30 0 0

Grid cells are 50km on a side.

The values in the grids are as follows:

1= the species is absent today and projected to be absent in the future

2= range contraction (the species is present today and projectd to be absent in the

future)

3= range expansion (the species is absent today and projected to be

present in the future)

4= stable range (the species is present today and

projected to be present in the future)

The methods for generating these projected range shifts as well as the full

names of the general cirulcation models from which climate projections were

derived can be found in:

Lawler, J. J., S. L. Shafer, D. White, P. Kareiva, E. P. Maurer, A. R.

Blaustein, and P. J. Bartlein. 2009. Projected climate-induced faunal change in

the western hemisphere. Ecology 90:588-597.

Any use of the maps should cite the above citation.

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