Figures for main text

Figures

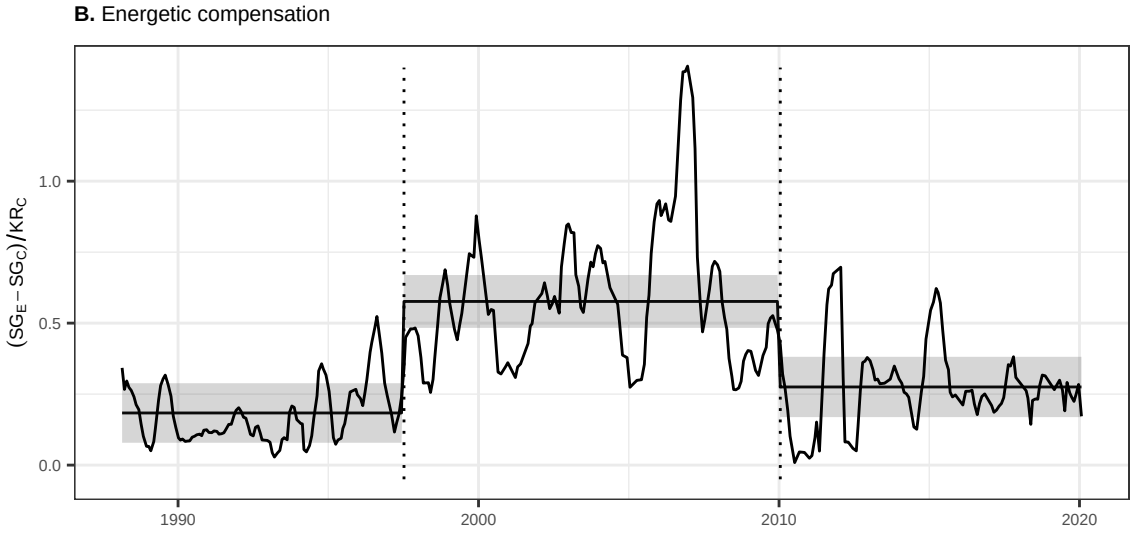
Compensation and total energy use

Lines are 6-month moving averages. Horizontal lines + ribbons are means and SE or CL from GLM or GLS.

Compensation

Compensation refers to compensatory gains in energy use by small granivores on exclosure plots relative to controls. Calculated as $\frac{SmgranExclosure - SmgranControl}{DipoControl}$, where $SmgranExclosure$ is total energy used by small granivores on exclosure plots, $SmgranControl$ is total energy used by small granivores on control plots, and $DipoControl$ is total energy used by kangaroo rats (genus *Dipodomys*) on control plots.

```
## Joining, by = "oera"
```

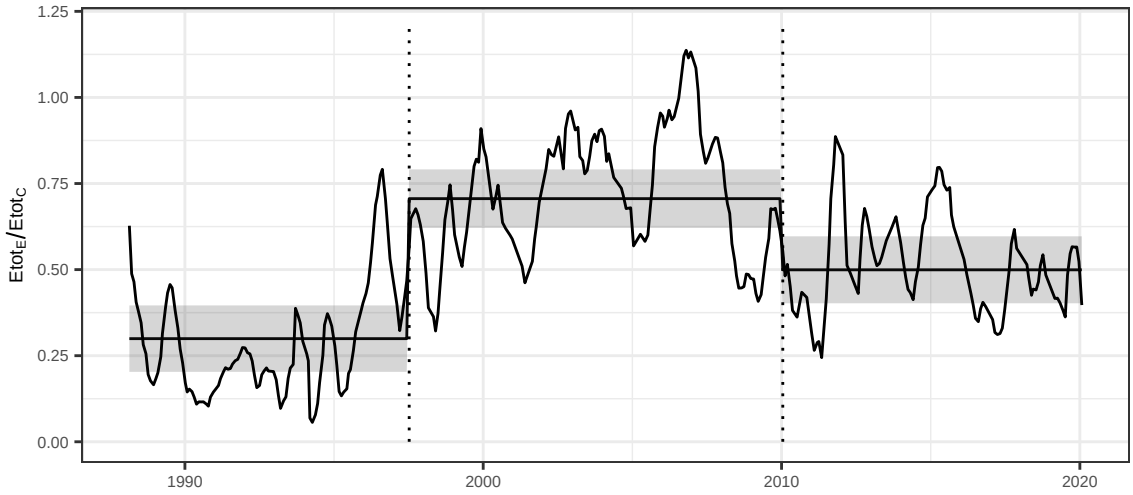


Total energy ratio

Total energy refers to the overall loss in energy use caused by kangaroo rat removal, or the ratio $\frac{TotalEnergyExclosure}{TotalEnergyControl}$ where $TotalEnergy$ is the total energy use by all rodents on exclosure and control plots.

```
## Joining, by = "oera"
```

A. Total energy use ratio



Rodent community composition

C. baileyi

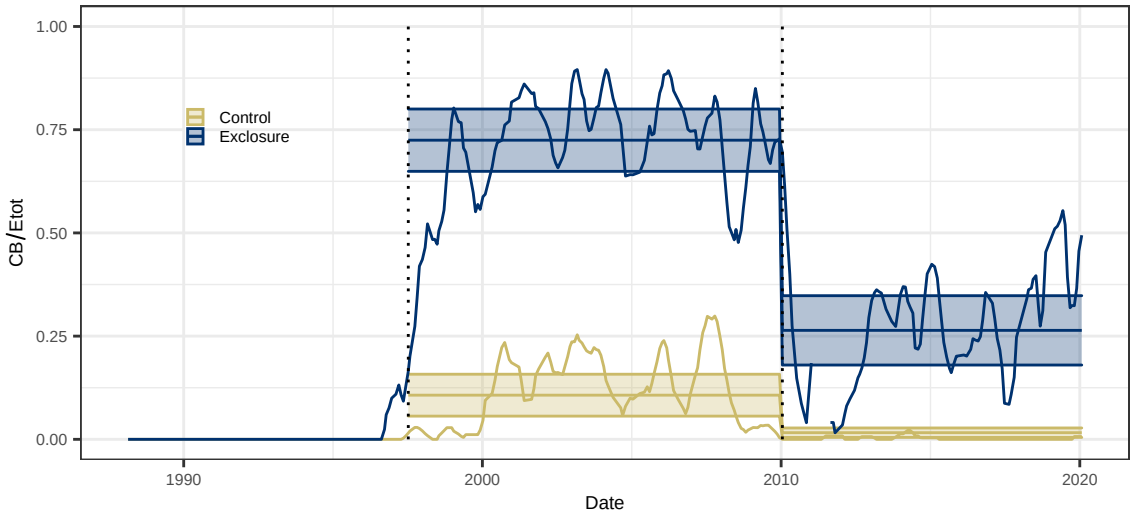
```
## Warning in eval(family$initialize): non-integer #successes in a binomial glm!

## Joining, by = c("oera", "oplottype")

## Joining, by = c("oplottype", "period", "censusdate", "pb_prop_ma")

## Warning: Removed 228 row(s) containing missing values (geom_path).
```

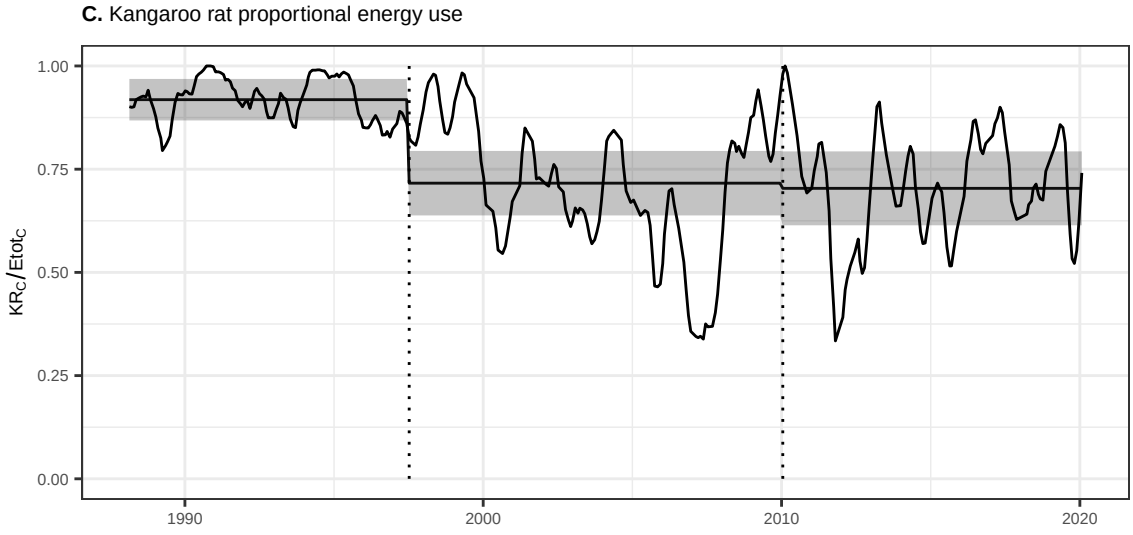
D. *C. baileyi* proportional energy use



Dipodomys

```
## Warning in eval(family$initialize): non-integer #successes in a binomial glm!
```

```
## Joining, by = "oera"
```



Full figure

```
## Setting row to 1
```

```
## Setting column to 1
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```
## Setting row to 2
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## Setting column to 1
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```
## Setting row to 3
```

```
## Setting column to 1
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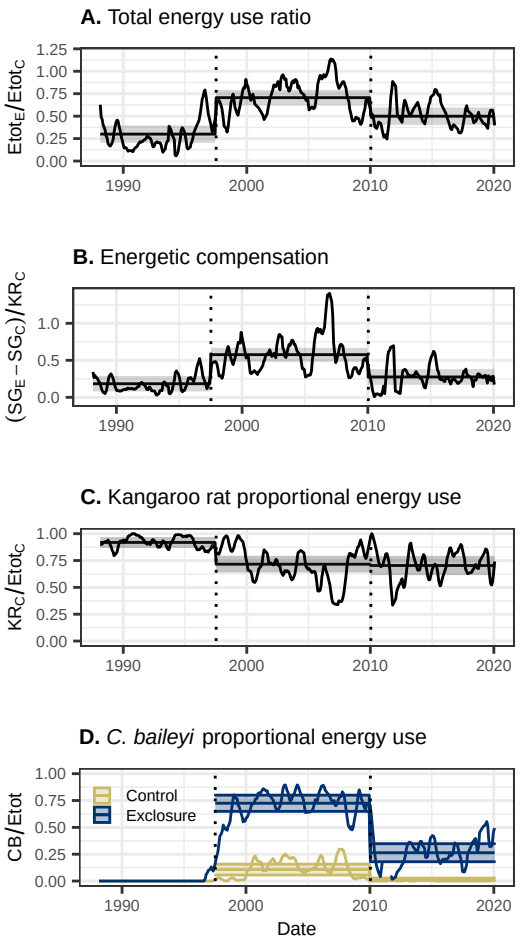
```
## Setting row to 4
```

```
## Setting column to 1
```

```
## Warning: Removed 228 row(s) containing missing values (geom_path).
```


A. Total energy use ratio
$Etot_E/Etot_C$
1.25
1.00
0.75
0.50
0.25
0.00
1990
2000
2010
2020
B. Energetic compensation
$(SG_E - SG_C)/KR_C$
1.0
0.5
0.0
1990
2000
2010
2020
C. Kangaroo rat proportional energy use
$KR_C/Etot_C$
1.00
0.75
0.50
0.25
0.00
1990
2000
2010
2020
D. C. baileyi proportional energy use
CB/Etot
1.00
0.75
0.50
0.25
0.00
Control
Exclosure
1990
2000
2010
2020
Date