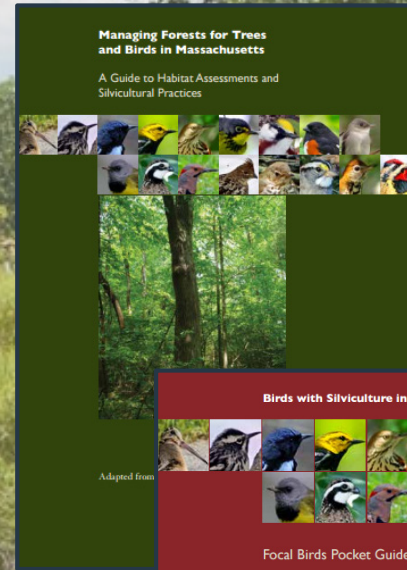


Foresters for the Birds

+ *Climate Adaptation!*



Jeff Ritterson
Forester workshop
5/1/19

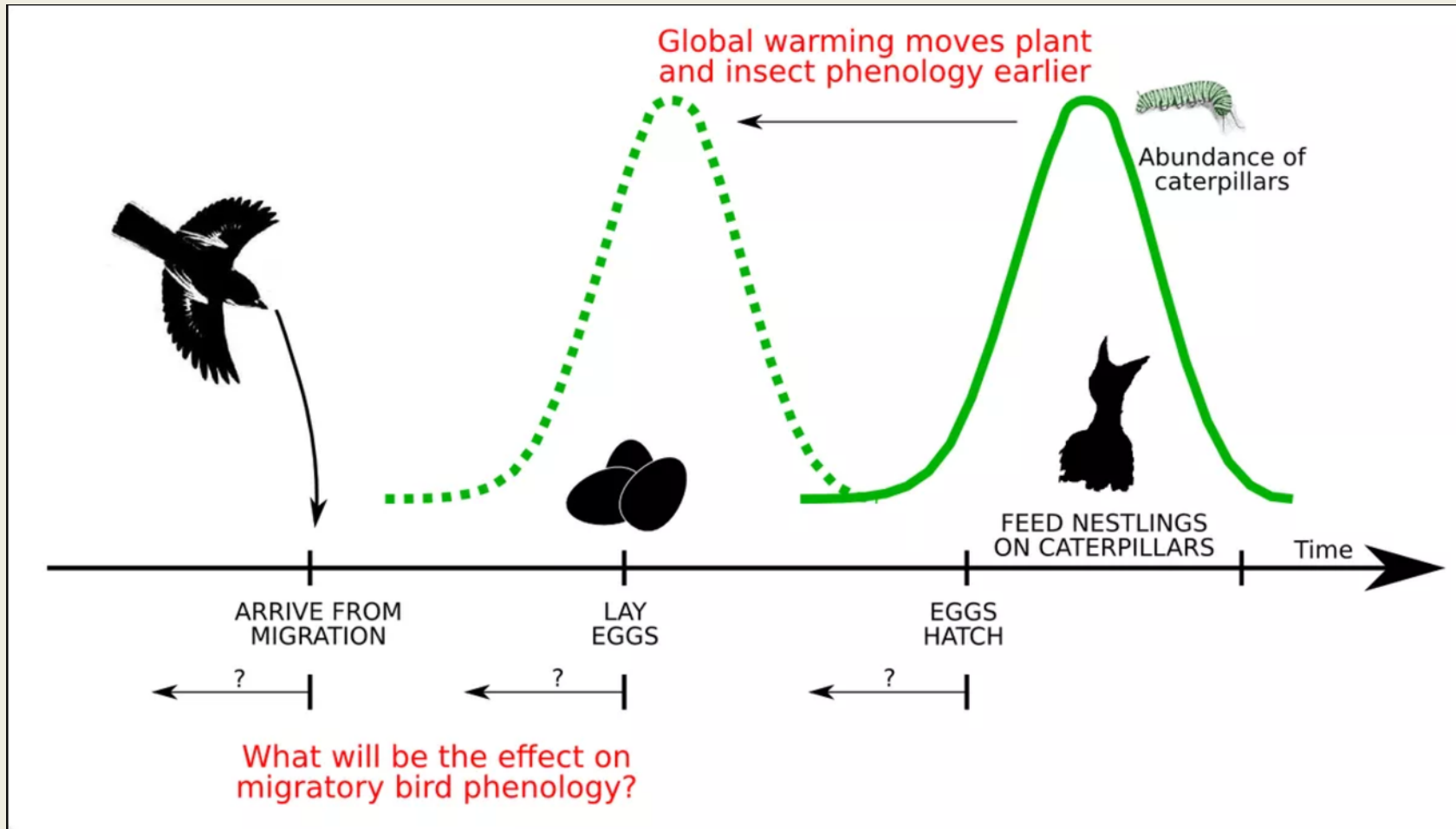


Effects on Birds

SHIFTING SEASONS | SHIFTING SPECIES | SHIFTING STRESSORS

Effects on Birds

SHIFTING SEASONS | SHIFTING SPECIES | SHIFTING STRESSORS



Effects on Birds

SHIFTING SEASONS | SHIFTING SPECIES | SHIFTING STRESSORS



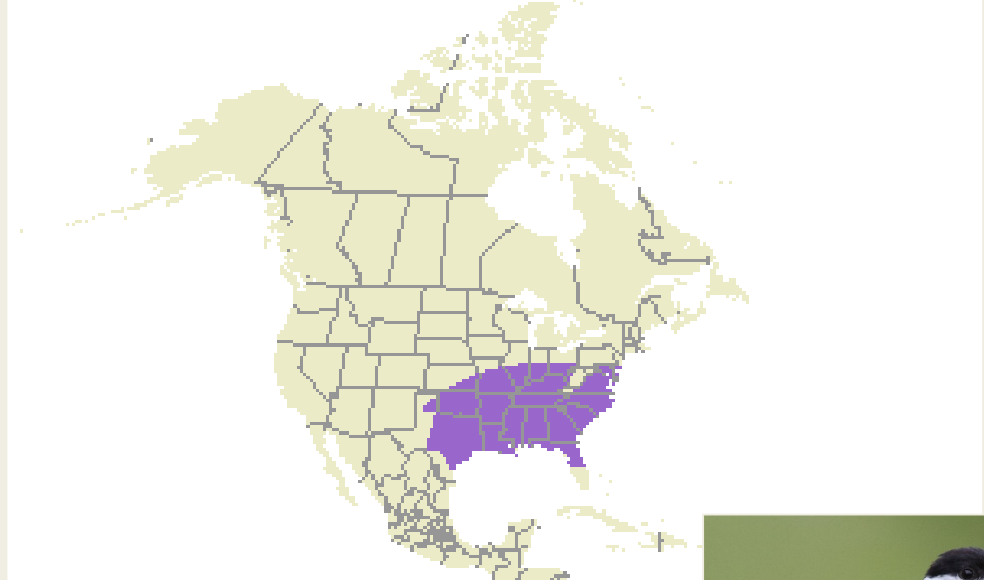
Effects on Birds

SHIFTING SEASONS | **SHIFTING SPECIES** | SHIFTING STRESSORS

Blackburnian Warbler
Setophaga fusca



Carolina Chickadee
Poecile carolinensis



John Harrison



Effects on Birds

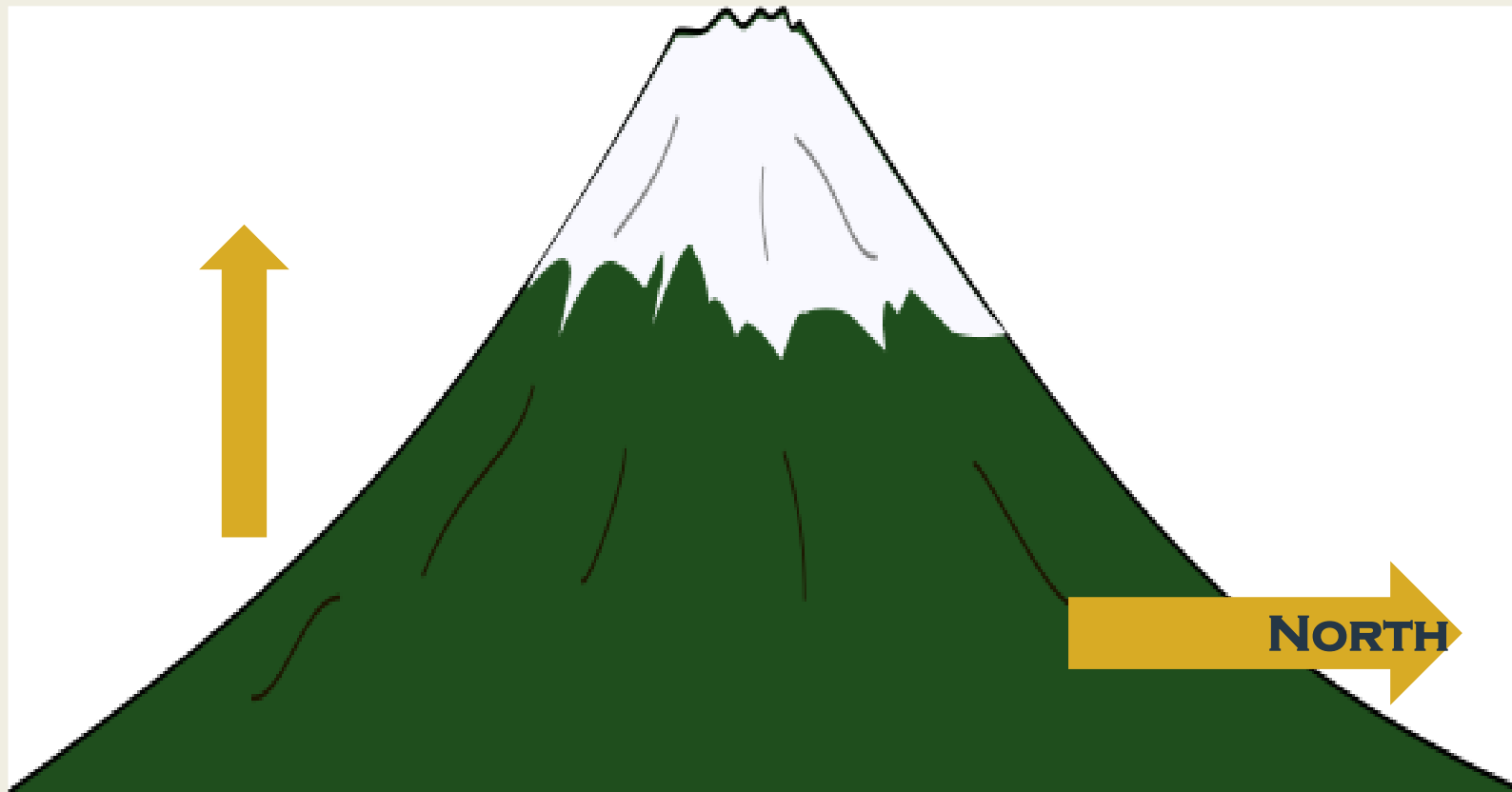
SHIFTING SEASONS | **SHIFTING SPECIES** | SHIFTING STRESSORS

- Thermoregulation and maintenance
 - Feeding
 - Courtship and breeding
- Reduced survival and reproductive success



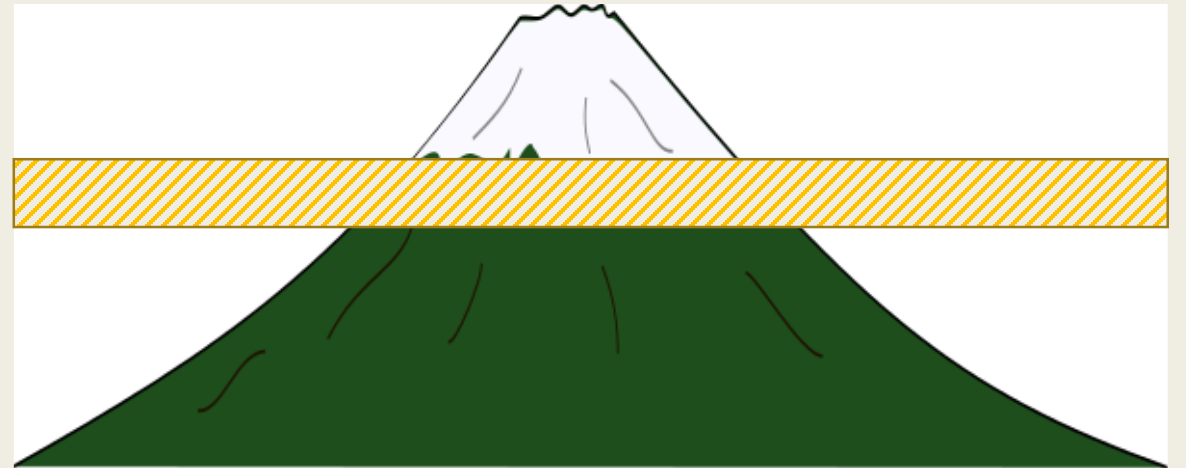
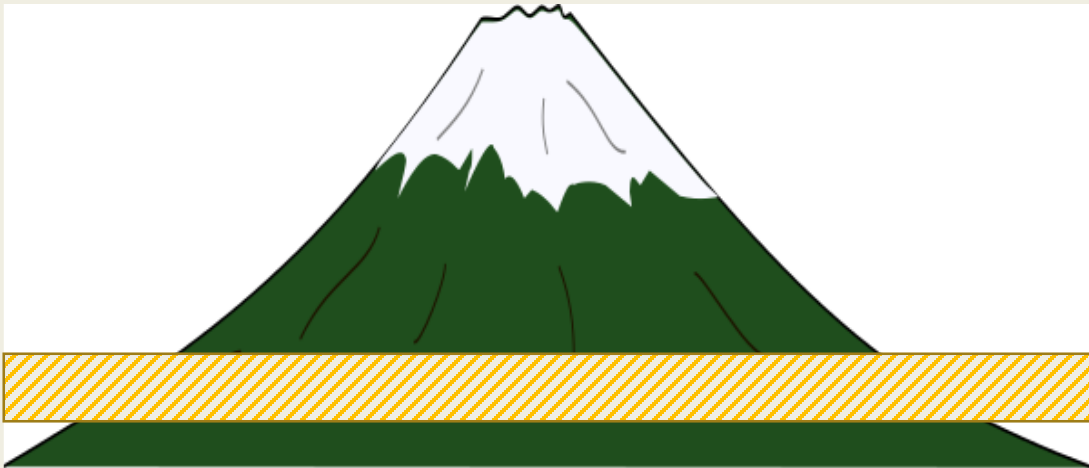
Effects on Birds

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Effects on Birds

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Effects on Birds

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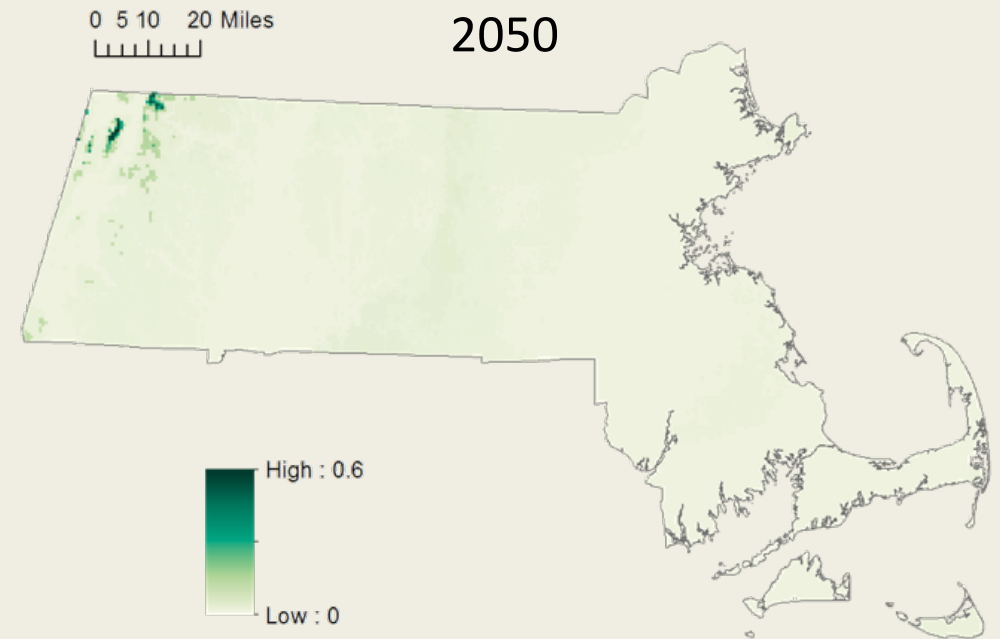
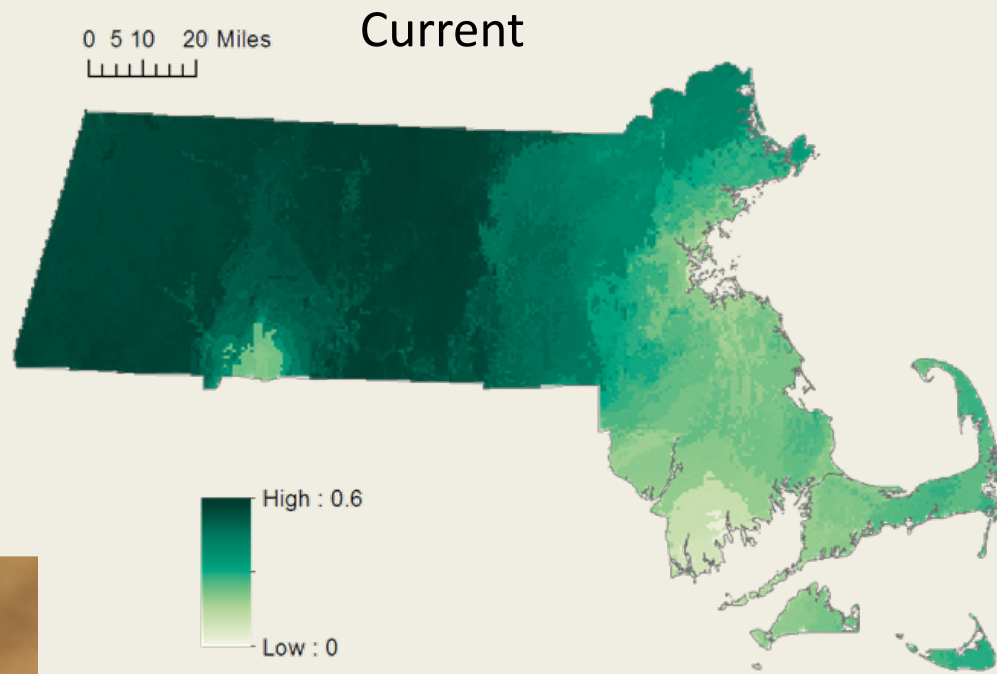


State of the Birds 2017

Massachusetts Birds and Our Changing Climate

Effects on Birds

SHIFTING SEASONS | **SHIFTING SPECIES** | SHIFTING STRESSORS

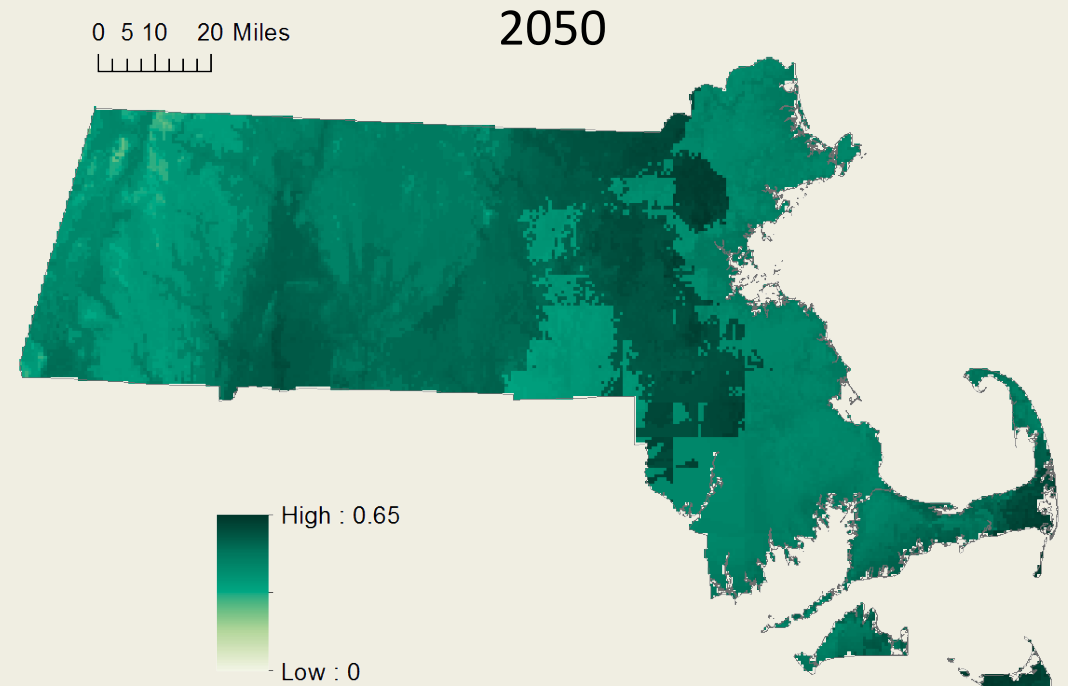
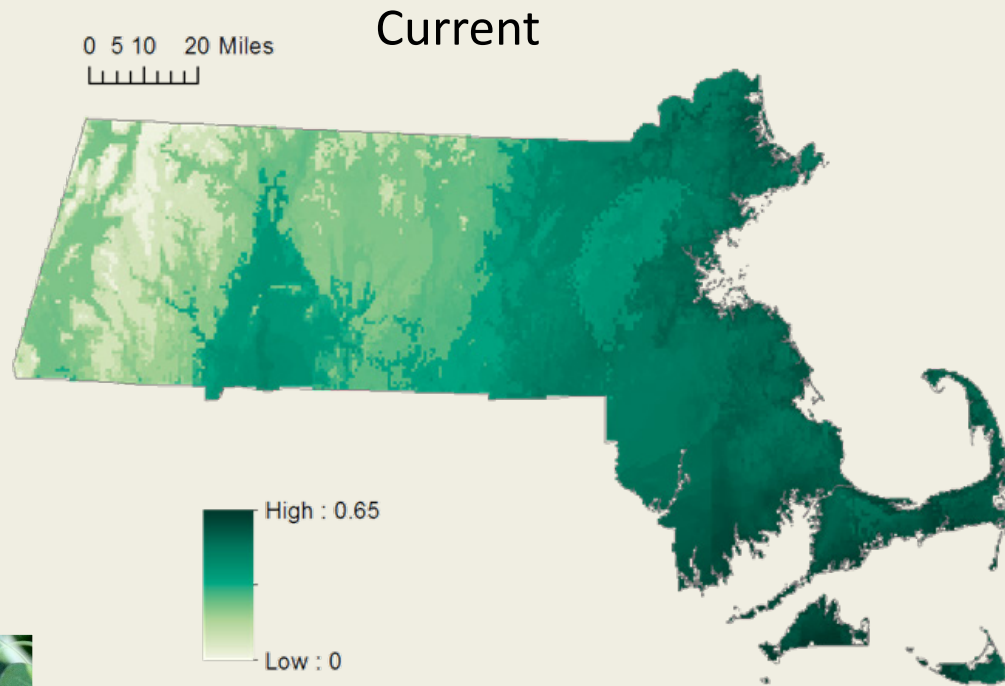


Evan Lipton

Yellow-bellied Sapsucker

Effects on Birds

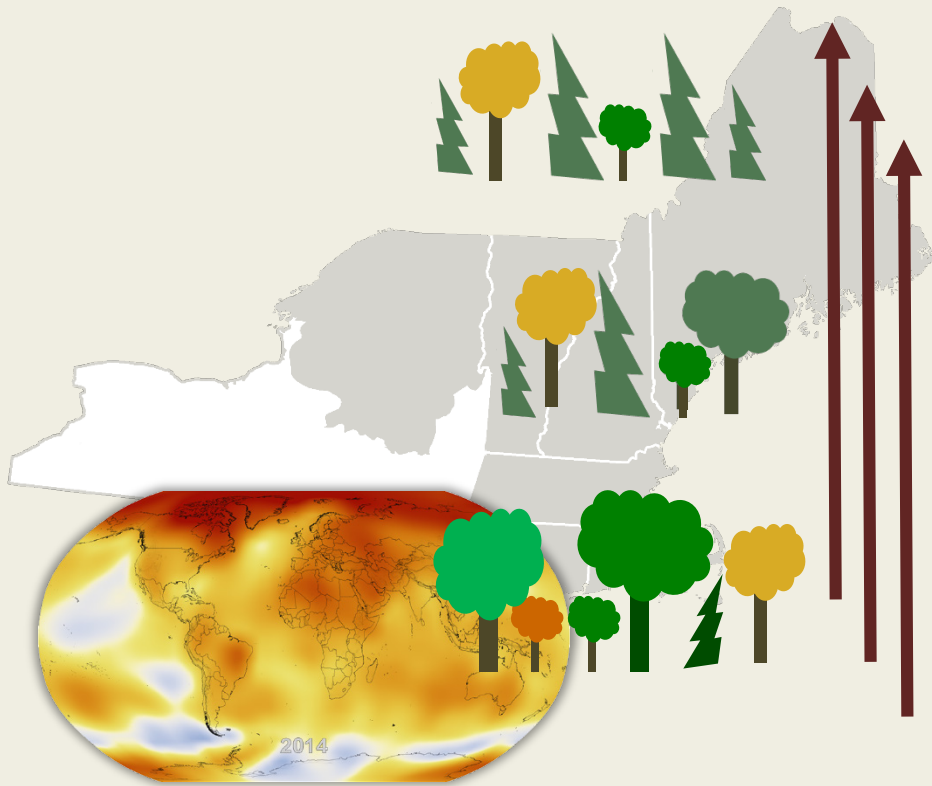
SHIFTING SEASONS | **SHIFTING SPECIES** | SHIFTING STRESSORS



Northern Bobwhite

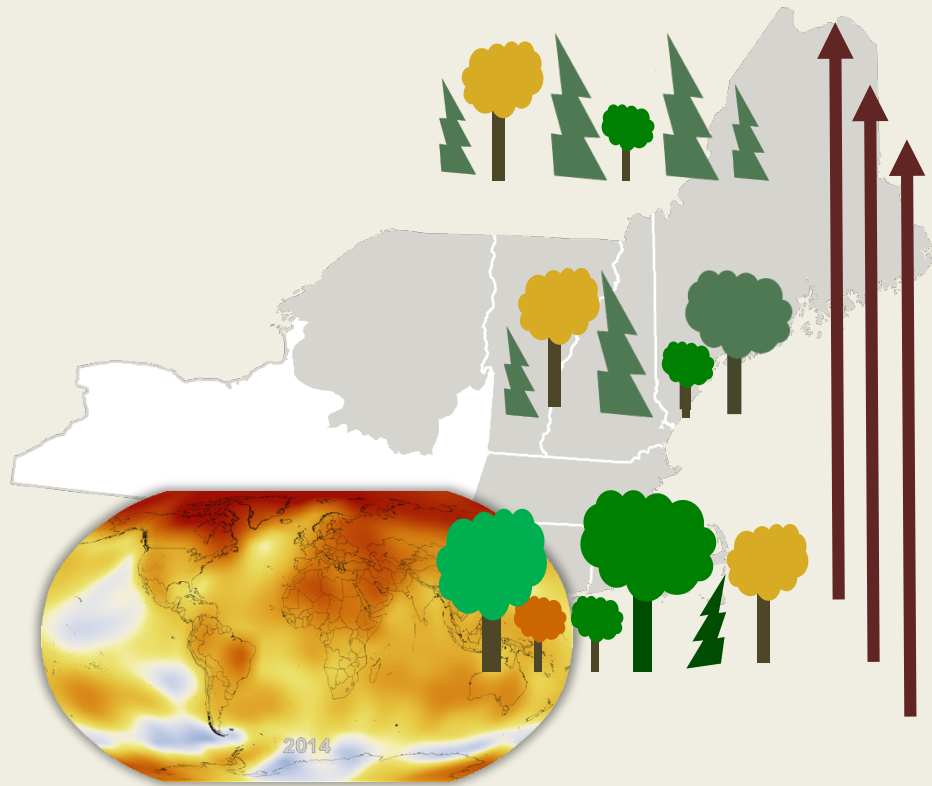
Effects on Birds

SHIFTING SEASONS | SHIFTING SPECIES | **SHIFTING STRESSORS**



Effects on Birds

SHIFTING SEASONS | SHIFTING SPECIES | **SHIFTING STRESSORS**



Suckers...



Who are you?



I don't know!

