

15104 12-3

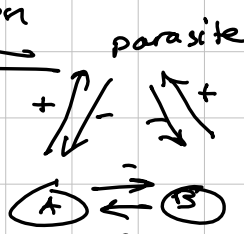
29 Sep.

PARASITE-mediated invasion

parasite help invader?

parasite hurts invader?

Human invasions



- VIRGIN soil epidemics

- Europeans → W Hemisphere

- Europeans → Africa

malaria

yellow fever

- genetics

- childhood exposure

1 curtin 1990

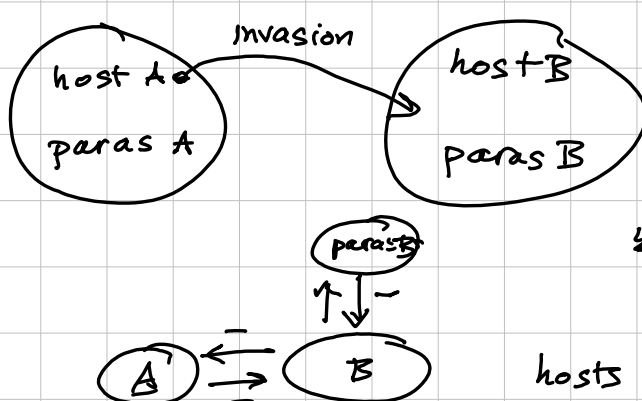
- sturgeon. → Aral sea.

dro off in 1930s

? didn't help non-native surgeon?

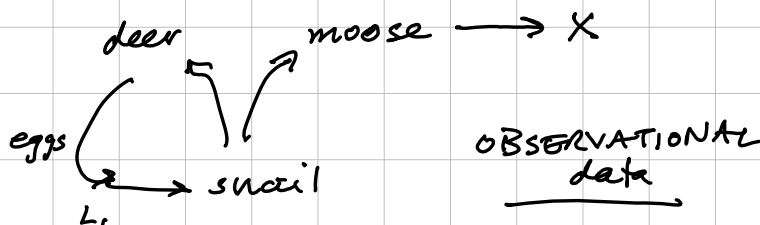
invaders helped by LACK of parasites?

NATURAL ENERGY HYPOTHESIS



GREEN CRABS

Moose - deer - brainworm:



MODEL :

Schmitz + Nudds
1994

• Inconclusive •

pairwise interactions $\rightarrow$ communities

TROPHIC CASCADES

parasite examples -

6. { Toxoplasma }
Gondii

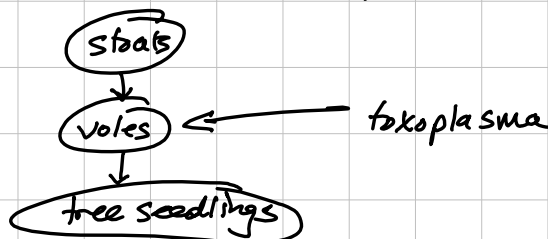
↳ infects ~~can~~ rodents + carnivores

make rodents (prey) more bold/
attracted to carnivores

[ENCOUNTER filter]

? explanation -

~~pre~~ stoats / voles / tree seedlings



ecosystem engineering

changes in physical
environment → change the
community structure
(beavers)

COCKLES in NZ.

parasite affects foot

parasitized cockles don't burrow

less BIOTURBATION,
create a hard substrate

- RINDERPEST, related to measles

morbillivirus

Fatal disease of cattle.

native to central Asia. -

