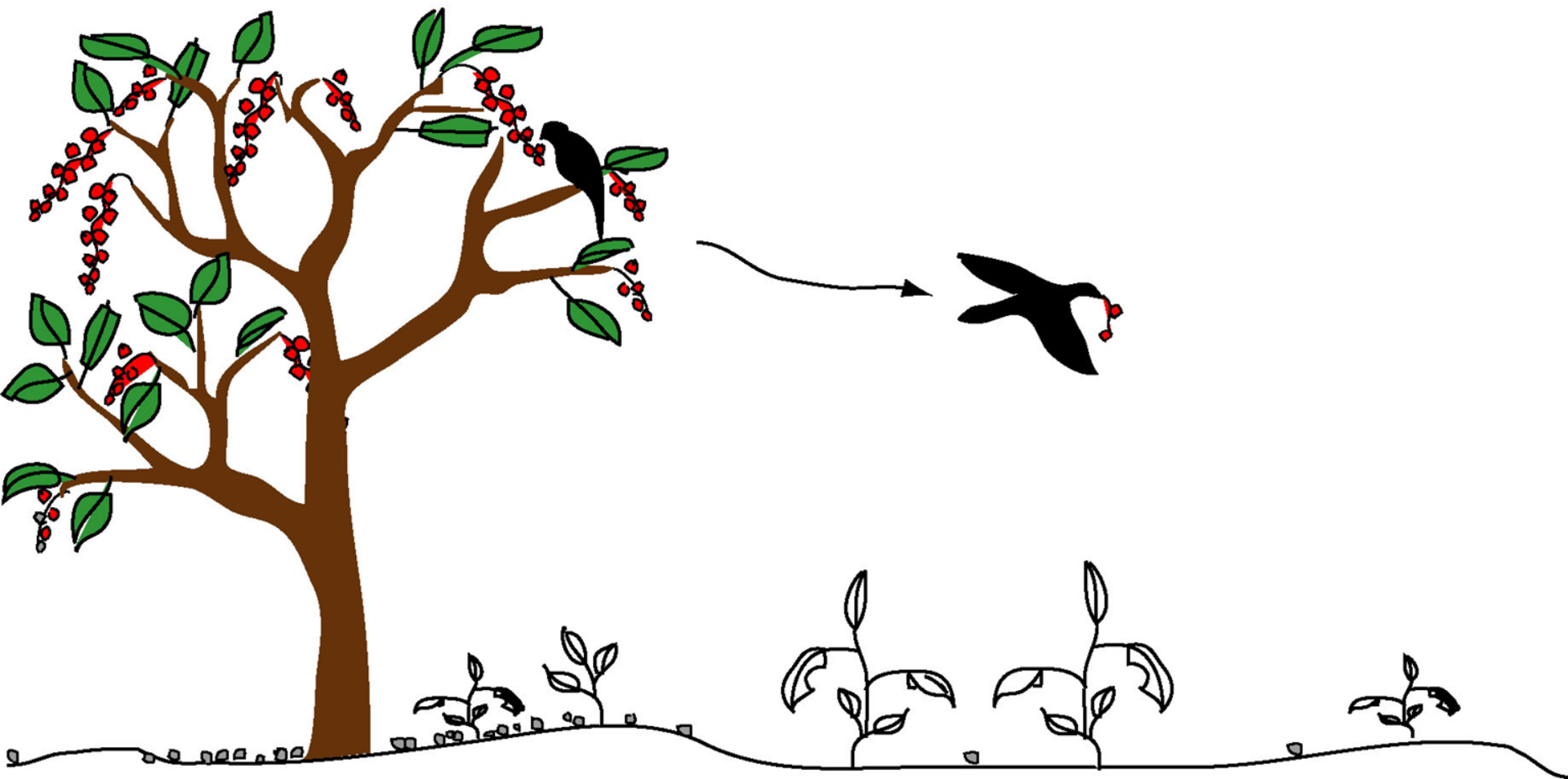




Fruit-bird interactions in the Marianas

Evan Fricke,
Haldre Rogers, John Bender,
Henry Pollock, Evan Rehm, Julie Savidge



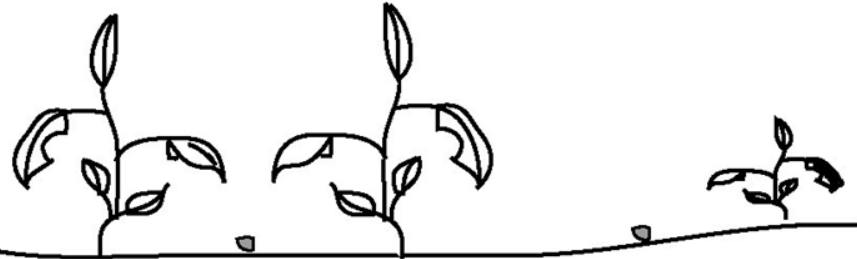
An important mutualistic interaction



Lainie Berry

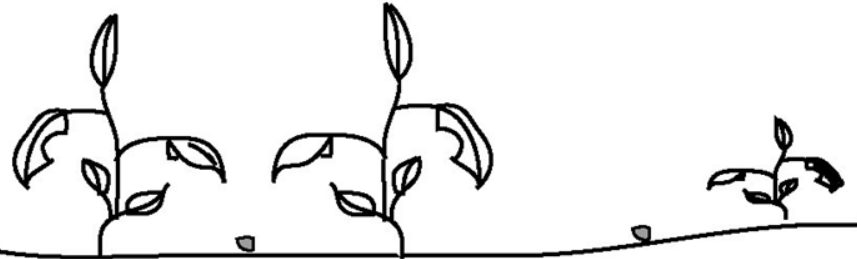


1. Increased germination through seed handling
2. Escape from high mortality near parent plant
3. Move to microsites suitable for germination
4. Allow plants to colonize new areas





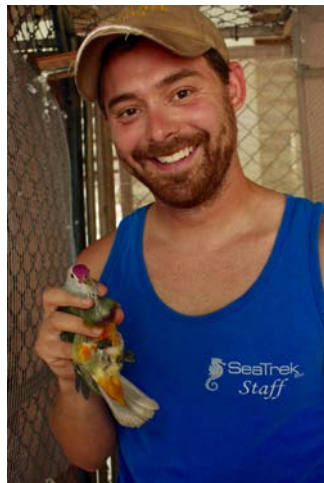
1. Who are the important bird seed dispersers?
2. What are the differences between seed dispersers?
3. What are the differences among plant species?



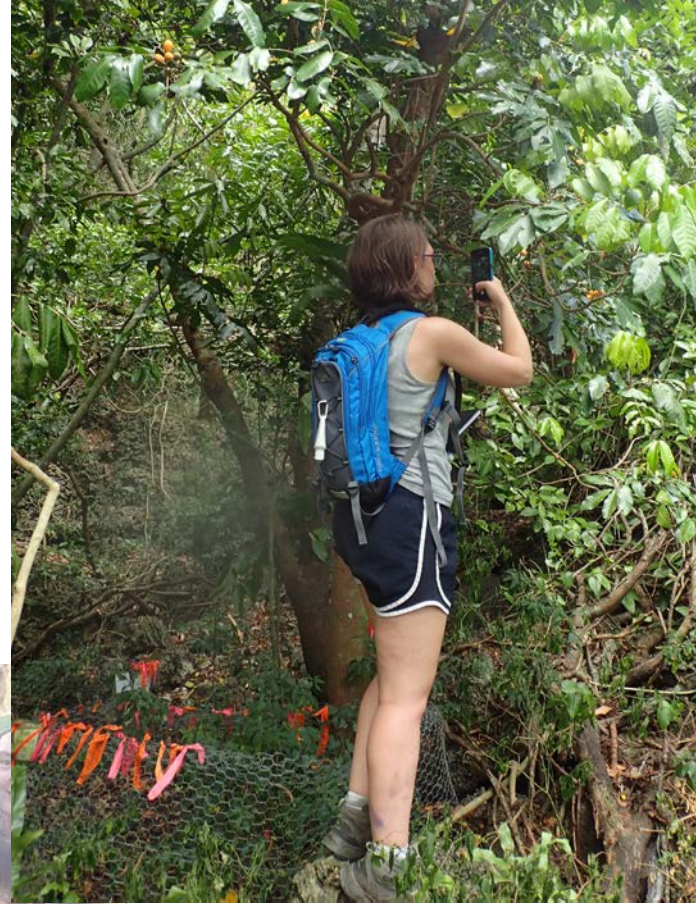
*How do we learn
about the ecological roles
of fruit-eating birds in the Marianas?*





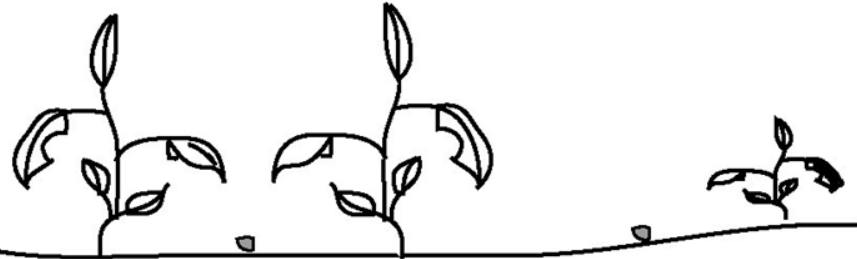








1. Who are the important bird seed dispersers?
2. What are the differences between seed dispersers?
3. What are the differences among plant species?





Paluman Senesa



Ko'ko'



Aga



Sasangat



Paluman
apaka



Sali



Nosa'



Canario



Totot

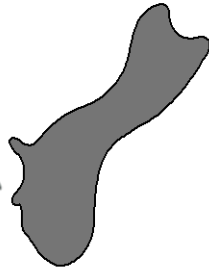
Fruit-eating birds in the Marianas



Saipan



Rota



Guam



A look back at historical bird loss



Saipan



Rota



Guam

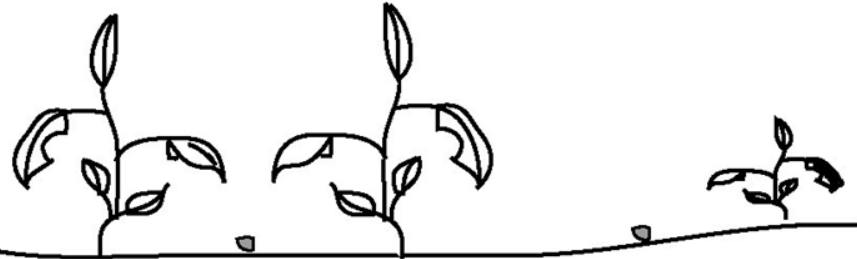
Micronesica 31(2):319-345. 1999

**The Prehistory of Vertebrates, Especially Birds, on Tinian, Aguiguan,
and Rota, Northern Mariana Islands**

DAVID W. STEADMAN



1. Who are the important bird seed dispersers?
2. What are the differences between seed dispersers?
3. What are the differences among plant species?





1. Who are the important bird seed dispersers?
2. What are the differences between seed dispersers?
3. What are the differences among plant species?





*How many
plant species
can they eat?*



*How abundant
are they?*





*How far do they
disperse seeds?*



*Do they move
across habitat
types?*



*How does gut
passage affect
germination?*







1. Who are the important bird seed dispersers?
2. What are the differences between seed dispersers?
3. What are the differences among plant species?



1. Increased germination through seed handling
2. Escape from high mortality near parent plant
3. Move to microsites suitable for germination
4. Allow plants to colonize new areas



Amahadyan / *Pipturus argenteus*



Amahadyan / *Pipturus argenteus*



Mapun Yao / *Aglaia mariannensis*

Conclusions

- Bird-plant interactions are important in Mariana terrestrial ecosystems
- Observations & experiments can show the plants most important for birds and birds most important to plants



Thanks!









