**Mirana – Malaria incidence Amboasary Sud**

Stat: What is effect of distribution of sleeping nets on malaria incidence?

Glm; gaussian

Mech: How does temp affect malaria incidence?

Simple mosquito demography

* Are there different biting rates for different classes of people? (ie.e. symptomatic)

**Nina – honeybees importation in wild bees**

Stat: what factors influence disease status of DFW?

* Your response variable is viral prevalanece (titer?)
* Or are there clear statuses?

Mech: How does time of honey bee source impact disease dynamics in wild social bees?

* How consistent is seasonality ? looks like it might be changing with climate…but wild are shifting too – should ask if these shifts compound or contract

**Santino – Effects of forest fragmentation on exotic ants**

Stat: what Is the impact of forest fragmentation on the exotic ant community?

* Response is wrong – needs to be a marker of community, not just “abundance of exotics” and shouldn’t be poisson family

Mech: How does forest fragmentation make easier the dominance of exotic ants?

* You should impacts of forest on EA. What about impacts of forest on native ants? Or was this left out for seasonality

**Kim – Carrying capacities for rare carnivores in Andasibe**

Stat: What variables cause carnivores to switch prey from native prey to chicken?

* Will you include non-native carnivores too?
* How do you quantify the rate of prey switching?
* Possible to get carnivore poo? Likely will be presence/absence only

Mech: same deal

**Liantsoa –** Baby tortoise poaching in Baly Bay Natl Park

Stat: Are tortoises easier to observe in rainy season?

* Why are they easier to observe in rainy? (not hibernating)
* Does this change geographically across Madagascar? i.e. is there a latitudinal wave? Do hunters follow it?

Mech: How does poaching rate enhance tortoise extinction in wild?

* Model a little weird…why the source pop?
* Do you have longitudinal data from poaching?

**Nancia –** Seed dispersal by birds in fragmented landscape

Stat: What factors influence consumption of fruit by lemurs and birds in plant species?

* Is it always easy to tell what type of animal ate the fruit?

Mech: How does competition between birds and lemurs affect seed dispersal dynamics?

* Very cool dynamics! Want to make sure you include feedback dynamics from the fruit tree to the frugivore as well (maybe too dark)
* Future: simulate loss of one frugivore through time
* Is anything known of the relative abundances in history

**Vero –** Importance of omnivores in seed dispersal

Stat: What is effect of gut passage on germiniation?

* Is it easy to tell what type of animal defecated the seed?

Mech: How does omnivore seed dispersal affect forest growth?

* Haha, not an SIR model, But simply a ‘compartmental model
* Is there a way to include both control and germinated together? Any feedbacks?

**Anthonio –** Anopheles population dynamics in Farafangana

Stat: What climate and environmental factors are correlated with Anopheles density in Fara?

* Should you include time/season of sampling in your predictors? (i.e. do you think there are other seasonal factors that this might capture that your climate variables do not)

Mech: How important are these dynamics?

* Future develop epi model of malaria transmission?
  + Is there any malaria data?

**Marion –** Modeling effects of alternative control methods on tiger mosquitoes in Réunion

Stat: what is differences in optimal date of SIT vs boosted SIT?

* Might want to try a gam() for it

Mech: How does control of mosquito pop impact dengue transmission?

* Is migration of infectious (or exposed) humans from one city to another important?
* Do infectious people travel (you have only one I)

**Hélène –** dynamics of arthropod vectors for RVF

Stat: What are the drivers of mosquito dynamics in one site?

* Question should list “abundance” (not dynamics) as the response
* Future = lags using cross-correlation methods…is there any biological inference that can be derived from understanding these lags?

Mech: How sensitive are mosquito dynamics to different climate variables?

**Anecia:** Deforestation and malaria

Stat: is there a correlation between deforestation rate and malaria prevalence?

* What do you do if the lag is different than 1 year for malaria prevalence vs. deforestation?

Mech: Can deforestation data be used a malaria predictor?

* Are there any important non-linearities between human dynamics and forest (i.e. migration rates) that might also be important to include?

**Kayleigh:**

Stat: What are the associations between environmental variables and Toxo infection?

Mech: How do soil conditions interact with oocyst survival to increase infection prevalence?

* Is toxo pathogenicity an important health issue for these carnivores?

**Angelo –** Bertonella dynamics in fruit bats and bat flies

Stat: What factors are associated with Bartonella spp. infection in Madagascar fruit bats?

* Can be hard to quantify the number of flies extracted. How to standardize this?
* Need to also include density and climate variables within the cave sites

Mech: How does bat fly prevalence affect the dynamics of Bartonella?

* Q from Andres: where does transmission happen?

**Diary:** Depression in medical students

Stat: what factors influence depression?

* Hyp includes gender? Why are girls more likely than boys

Mech: Age-prevalence data

* Is there a treatment rates

**Miatrana:** WNV in wild birds in Madagascar

Stat: What is seroprevalence and risk factors associated with WNV infection?

Mech: Can endemic transmission be maintained in passerine birds without new reintroductions of virus?

* Great question…is there age data for these birds? What’s the longitudinally of the data

**Robuste:** Seasonal dynamics of diet in Madagascar

Stat: What are staple foods consumed seasonally?

Mech: How does rice availability influence dynamics of food security?

**Feno:** Ecological determinants of plague in Madagascar

Stat: What are main env. Factors influencing incidence of plague in Mada?

* Influencing or correlated with?

Mech: How is pneumonic plague spreading across cities in Madagascar?

* Is bubonic plague and rat movement important in this too?

**Rindra:** Assessing impacts of Varecia on plant composition?

Stat: What is correlation between feeding time and and number of seeds defecated?

Mech: How does frugivory by lemurs affect forest community composition?

* Do you think you will need to include any other frugivores in your model?