

**Estimating area-specific contributions to the population dynamics of migratory species
NIMBioS Summer 2016 Meeting 4 Agenda**

General Meeting Goals:

- a. Gain understanding of status of each subgroup and reachable goals within the next few months
- b. Revised list of publications and models with timelines for submission/completion
- c. List of tasks to carry out after this meeting

Subgroup Meeting goals:

- a. *Network model paper*: finalize & submit!
- b. *Network perturbation*
 - i. Pintails: complete perturbation experiments; conduct statistical analysis; complete outline and writing assignments for paper
 - ii. Monarchs: finish tuning the model for baseline parameterization; perturbation experiments; task list and timeline; Consider comparisons to both previous models.
 - iii. Ungulates: construct model, parameterize model, task list and timeline
- c. *Continuous migration model*: decide on case study species (mallard vs pintail); complete baseline parameterization; perturbation experiments; task list and timeline
- d. *Cr/Coid Part 2*: develop backward (reverse-time) equations for per capita contributions; revisit the 2-equation (common calendar) approach; task list and timeline. Richard's common calendar draft paper with 3 case studies.
- e. SPOIR group: finalize Julia's paper, and discuss/plan 2nd policy essay

Day 1, Tuesday: **AM: Updates from subgroups with planned products and timelines; PM:**

Breakouts

1. 8:00-9:00am breakfast at Nimbios
2. 9:00-9:30 Review meeting goals and Introductions for new members (30min) [Wayne]
3. 9:30-10:30 Updates from subgroups (~10 min each including presentation & discussion)
 - a. SPOIR essay [Laura]
 - b. Coid/Cr papers [Brady/Ruscena/Richard]
 - c. Bat subgroup [Ruscena]
 - d. Continuous model effort [Kevin/Richard]
4. 10:30-10:45 Coffee Break (15 min)
5. 10:45 - 11:15 Updates on perturbation analysis case studies: pintails & monarchs (30 min) [Brady/Christine]
6. 11:15-11:30 Brief overview & discussion of ungulate case study (15 min)

7. 11:30-12:00 Discuss tasks & leads for synthesis paper on perturbation results (30 min)
8. 12:00-1:00 *Lunch on site (1 hr)*
9. 1:00-1:15 Brief review & discussion of [planned papers](#) (15 min)
10. 1:15-1:30 Brief discussion: using common sets of equations and code across subgroups (15 min)
11. 1:30-1:45 Revisit meeting goals & sub-group/breakout organization for meeting (15 min)
12. 1:30 - 3:30 Breakouts (90 min)
13. 3:30 - 3:45 *Break*
14. 3:45 - 5:00 Breakouts (75 min)
15. 5:00 NIMBioS Reception
16. 6:00 Group Dinner

Day 2, Wednesday: **early AM: plans for continuing collaboration; Breakouts rest of the day**

1. 8:00-9:00am, breakfast at meeting location
2. 9:00-9:30 Plenary, update results of previous afternoon's discussions, and set goals for today for each subgroup (30 min)
3. 9:30-10:30 Breakouts (1 hr)
4. 10:30-10:45 Break (15 min)
5. 10:45-12:15 Breakouts (1.5 hr)
6. 12:15-1:15 Lunch (1 hr)
7. 1:15-3:00 Breakouts (1hr 45min)
8. 3:00 - 3:45 Break
9. 3:45-5:00 Breakouts (75 min)
10. 5:00 NIMBioS Reception
11. 6:00 Group dinner

Day 3, Thursday: **AM Breakouts; PM Field Trip**

1. 8:00-9:00am breakfast at nimbios
2. 9:00-9:30 Plenary, update results of day's breakouts, and set goals for today for each subgroup (30 min)
3. 9:30 - 10:30 Discuss ways of continuing collaborations beyond this meeting (1 hr)
4. 10:30 - 12:00 Breakouts (skip break)
5. 12:00 - 5:00 Field trip including bag lunch- Gary's idea Middle Prong of the Little River just beyond the Great Smoky Mountain Institute at Tremont
6. 6:00 Group dinner

Day 4, Friday: **Completing products**

1. 8:00-9:00am Breakfast at Nimbios
2. 9:00-10:00 Update on group progress and flesh out plans for continuing collaboration and completing products
3. 10:00-12:00 Left open for breakout time; Most will leave this afternoon.
4. 12:00 - 1:00 Lunch at Nimbios
5. 1:00 - 5:00 Subgroup breakout time