



PINEMAP Executive Committee meeting

April 22, 2016



Annual meeting: objectives

- Present results from 1st level integrative papers (details on next slide)
- Outline/ workshop 2nd level integrative papers
- Crafting the PINEMAP consensus message
 - Messaging for primary stakeholders (outreach products)
 - Accomplishments relative to objectives:
 - large scale summarizing for NIFA and beyond
 - Future avenues for messaging
- Identify opportunities for future research/ collaboration



Any feedback/ ideas?:

- How to make sure all participants are engaged:
 - grad students,
 - Eric Norland,
 - those not represented by integrative paper topics?
- Reflections on interdisciplinary process - +s and -s?
- How to best accommodate interests of
 - 2nd order papers which are mostly written (aim 5)
- Any important meeting topics we've missed?



Presenting 1st level results

- 2 panel sessions with 4 groups presenting in each panel
 - Most insightful results from a science perspective, either confirmatory or surprising – key value added
 - Who will be interested in results, how to best get the information to them
 - Barriers to communication, esp. of surprising results
 - Uncertainties remaining that need to be addressed through future research
- Moderated discussion of potential barriers/opportunities for communication and consensus building following each group of 4



List of first order papers by panel

Panel Session A

1. Regional net ecosystem productivity- net primary productivity tradeoffs: the role of soil respiration. (Brown, Lin, Markewitz, Noormets, Maier, McElligott, Seiler, Strahm)
2. Regional sap flow and hydraulics synthesis: how does reduced precipitation, fertilization, water use, site affect water use. (Ward et al)
3. Forest management effects on relative changes in biomass, forest floor, and soil carbon across the region. The role of nitrogen differences in forest floor and soil carbon in nitrogen retention estimates. (Vogel et al)
4. The effects of rainfall reduction and nutrient availability on net ecosystem productivity. (Bracho, Noormets, Gonzalez, Martin, Vogel, Markewitz)



List of first order papers by panel

Panel Session B

- Regional loblolly pine productivity assessment under climate change using 3-PG: flavor selection, parameter tuning, data assimilation, and regional runs for 20 climate models.
(Evan, Randy, [Bob, Carlos, DA - flavors, Carlos - Tier I, II data; Ryan, Heather, Corey – MACA inputs; Quinn -parameter tuning; Brian, Tom, John Seiler - SI Map corrections; Jose Alvarez; Data assimilation Jersild, Quinn, Carlos, Bob, DAS, Brooks, Bruce])
- Community land model: which details matter when representing forest management in an earth system model? Aboveground net primary productivity and stem: leaf allocation (based on Tier I data). (Quinn, Ben)
- Loblolly pine Growth & Yield regional simulations.
(Harold, Evan, Heather/Ryan/Corey, Charles, Nabin, Randy)
- Carbon-water tradeoffs of southern forests (WaSSI model).
(Ge, Steve, Carlos, Heather, Eric Ward (CO₂ fertilization), JC (CO₂/W), Bruce/Bob T. (Tier III Sites))



Building our consensus

- Revisit our original project goals
- Chance for everyone to share how they contribute:
 - What resources (databases/ capacity) are available due to your research?
 - What is key value added?
- How could future research be enhanced by PINEMAP capacity/ networks of people/ datasets
- What has our energy/ time bought us in terms of knowledge and future potential?



Second order integrative papers

- Ensemble modeling of pine productivity over the 21st century. (Q. Thomas/R. Wynne/E. Brooks, Sabine, Wade Ross, all individual model paper authors)
- Life cycle impacts of certified wood under a changing climate. (Puneet, Bob T., Dan M., Mark M., James McC., Gary P., Bob A.)
- The future of southern timber markets: PINEMAP and the sub-regional timber supply model. (Bob A., Jesse H.)
- Soil C longer description (Sabine, Wade)
- Water: Carbon tradeoffs in planted pine (sap flow, WaSSI, regional C models) (authors)
- Management effects on ecosystem C (soil respiration, Tier I, II, III analyses) (authors)
- Management path to get to our 15%- what has to change on how much acreage (authors)
- Process paper: interdisciplinarity, research/outreach interaction, social network analysis (authors)
- PINEMAP's outreach evaluation: translating results for foresters and Extension. (Eric Taylor, Leslie Boby (co-leaders); Heather D., Corey D., Mark M., Bill H., Dan G., Rachel B.)



Second order integrative papers

Two workshop sessions to work with 2nd order groups: will this be in one or more than one paper, will this be a final report synthesis piece?

Share with group after:

- Significant aspect you can/ will be able to illuminate
- How you think we might message your results
- Which audience would be most interested – packaging, medium



PINEMAP's legacy for us

- Data privacy and authorship concerns: “It is estimated that these data will be fully available January 2018, conditional on completion of PINEMAP related analysis and publications by that date.”
 - Look at past policy and discuss timing of data release,
 - creative commons licensing,
 - ownership and format for continued citation,
 - Tier I data negotiations,
 - Tier II data georeferencing to ownership privacy concern?
 - Tracking of data downloads, attribution tags for data
- DSS: Updating of existing tools, additional tool development



Opportunities for the Future

- How do we package these results for final report?
- New opportunities through this network/ resources created? What are new questions (perhaps unplanned) that we can now answer with capacity we created?
- How do we help to frame the next NIFA RFA? Eric Norland reports back on NIFA perspective.
- Continue discussions of controversy or contradictory results
- Joint coop meeting rollout and future cooperation/ collaboration (including logistics of meeting and data sharing concerns)