Karl

Talk more about snow fall/melting/potential leaching in the context of climate change in our region?

What do we know about past outbreaks in Swauk/Teanaway? You said there was a known increase, but what is the context, where is the evidence for the Central Cascades? More detail from Flowers 2014…regional versus budworms in general.

Pacific Decadal Oscillation

Paul

~~Landscape change via logging and forest management in the Teanaway and Swauk…impact on soils…changes to forest structure, influence on budworms? Even age second growth~~

~~Tighter link in conclusion to readdress initial hypotheses~~

~~Clarify N throughfall diagram with growing season in thesis as you did in thesis.~~ Possibly zoom in on budworm growing season pattern

~~Canopy SRP DOC, add rainfall to show magnitude~~

~~Clarification on NO3 spike in last sample date~~

~~Add error bars definition to captions~~. Change graphics to include raw data first for improved readability

Karl

~~What would you do better related to soil characterization? Why should have done texture (water storage, nutrient content and interaction with soil flushing). Did you differentiate between O sub-horizons? Define limitations better in thesis. What is geology of drainages (better site description)? CEC and clays and organic matter to bind NH4~~

Paul

What fraction of the new growth becomes litter? More context for why this is important…find some literature on this. Talk about speculation. Alternatively…past herbivory? Karl - ~~HJ Andrews peak litterfall in winter.~~

Karl

Expect to see altered temperature (written thesis) summer versus winter side. Open canopy would allow more longwave radiation to escape in the winter. Talk about amplitude of change versus unidirectional change.

Paul

~~Describe what an EMM is and why you used it.~~

Clay

~~Export during snowmelt?~~  ~~Limitations~~

~~More literature context in the beginning and more management significance in the end in addition to the rest of the implications~~

Next draft to me: Aug 14

Draft to me and Paul: Aug 17

Due Aug 21