

NSAR LTAR Meeting – 9/15/2016

Present: Ames Fowler, Shelley Pressley, Jan Boll, Lynne Carpenter-Boggs, Dave Evans, Dave Huggins, Eric Russell, Erin Books, Tim Paulitz, Kent Keller, Scot Hulbert, Ben Harlow, Jeff Ritter, Ian Leslie, Bryan Carlson

Meeting Notes: Bryan Carlson

Eddy-covariance flux tower update

- In the process of moving EC towers from current locations to Cook West and Cook East
- The new locations were determined based on proximity to the watershed, prevailing wind direction, micro-scale terrain features, and soil type
- David Huggins, Ian Leslie, and Eric Russell made final decision on locations after scouting the area
- Two other towers will be relocated to the Boyd Farm sometime this Fall
- Ian Leslie presented Figure 1
 - There are plans to relocate the current road around Cook West to be outside of the watershed
 - The EC tower locations share similar aspect, slope, and topography and that soil types are similar enough
 - Cook West is actually two watersheds



Figure 1: Cook Agronomy Farm with Cook West and Cook East outlined in red and proposed location of EC towers (black dot with 10 m radius circle).

- Shelley Pressley asked about access and installation of power lines. Dave Huggins: field is drivable this time of year and power options can be discussed later – quality of data is utmost importance
- Foundations for the towers should be in place before Oct. 1

Types of monitoring

- Dave Huggins plans to overlay the non-aligned grid used on Cook East for Cook West. He is considering only sampling one watershed, depending on the number of locations and personnel time
- Scot Hulbert mentioned that the other watershed could be divided into research plots
- Erin Brooks would like to locate the tile drains for Cook W and Cook E
- Dave Huggins mentioned that we could put in our own tile drain in Boyd if none exist
- Hydrological monitoring
 - {NOTE: I missed a lot of these details}
 - Dave Huggins would like to map vertical layers that impact hydrological processes
 - Jan Boll would like to use seismic monitor to map
- Dave Huggins suggested we create a timeline of sensor deployment, deadlines for measurement events, etc. to better organize logistics and prevent redundant efforts
- Lynne Carpenter-Boggs would like mycorrhizal spores from soil samples, Dave Huggins: If Lynne sends protocols he will look into integration with current sampling methods