May Monitoring Meeting

Wednesday, May 8, 2024

8:52 AM

**Field Validation of Regional Resource Kits & Remote Sensing Products**

Michele Slaton, Planning Data Validation - ACCG Group

Timely Topic - validation on a regional database

BLUF - bottom line up front

Need for spatial products - old data and new

Standard operating appendices - walk through of the data sources, RRK, etc., decision guidance

R5 Ecology Program - review of this documents for guidance in next couple of weeks

Overview of Data Sources and Timeline - review slide on this

Existing Vegetation - ENF will roll out in the next two years

LiDAR - 2025 roll out - we should build our questions to address this later roll out

GNN will be updated and the algorithm should be getting better

F3 will be getting a refresh

NAIP - can be used to develop a tree map - tree height/cover 2024 - how does this relate to the 1m - NASA isn't using a point cloud they are using spectrospecky to build out the data products - this is different than point cloud data that will develop height data layers

Could all these data sets check each other?

Data discrepancies - over representation of mature forests - how does this need to be addressed

Fveg - frankenstein - varies based on data availability

Can validation be field based or using other data sources for recommendations?

Data sources that we can use to validate these data sets - FIA, CSE, Ecology Plots, Experimental Forests, R5 Range plots, Drone assessments

Starting with other remote sensing tools to validate other sources?

We could use LIDAR as a truth to validate tree height. Also use canopy cover we could validate F3 and other imputations

Is there a way we can standardize CSE to fit validation?

Remote sensing isn't as good at certain metrics - surface fuels, DBH (other metrics that we can focus on?), aspen and hardwood metrics, shrub characteristics

How can we utilize other protocols such as aspen

Look at SERAL protocol method - concrete way to validation - tweak existing protocols

Sensitivity test of different vegetation protocols for validation of different protocols -

Step 1 - cross validation of remote sensed data - where we would want to select field plots - where LiDAR datasets align and don't align - where do we select areas to field validate

Step 2 - layout the monitoring network

Plot Size - CSE - 1/5 acre plots - larger plots

Landsat grids have been used to design a protocol

How can we use the two datasets LiDAR/F3 to design a monitoring network?

Meadow/Grazing Issues - remote sensing analysis

Meadow Monitoring Tool - Broader Scale

SNEP data - is this a source we can utilize to validate

How do we report issues with F3? This might come out with the CSO analysis.

*Protocol for Validation of Remote Sensing - this would be the next step*

CSERC - meadow/range work

Wildlife cameras are out

Helen - AR units are pulled in for Great Grey Owls

Look at restored meadows - Foster, Matley, Wilson, Audrain, Leeks (control - implemented this summer)

Bumbleebee surveys for aspen project

**Phase I and II Monitoring CAL FIRE Proposal & Other Funding Opportunities**

Waiting on SNC and UMWRA Funding - still in process

**Phase I and II Monitoring Coordinator**

Stay tuned for funds that are

**Task List:**

All:

Protocol methodology for field validation

Think about where to solicit information for the monitoring coordinator

Aspen distance discussion - review this information for the WCB grant

Becky:

Can we get this metric spreadsheet? This would be very useful for fleshing out monitoring questions.

SERAL data - revisit the CSE datasets - bring together silvicultural resources

Reach out to Linda from ACCG - where is she?

UC Davis Protocol for Drone Flights - reach out to Derek

Reach out to Sam Prentis - approach on meadow monitoring work

Aspen Working Group Meeting - forward to group

Provide feedback on remote sensing table

Is Eveg data layer based on the FIA data? Is this a consistent data set?

Helen

Meadow remote sensing - 3D metrics - best methods - shrub characteristics

May 29-31 - Sierra Nevada Meadows Partnership - registration is still open