

Quantifying burn severity: when do our measurements work? Lessons from field and remote-sensing based inquiries

A virtual lecture presented by

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Abstract: Saba will be talking about the two manuscripts from her Master's work, which focuses on updating and calibrating measurements between CBI, RdNBR, and individual field-based severity metrics throughout the Interior Pacific Northwest. [The first key finding](#) is that CBI does not always capture extreme measures of fire severity and that some aggregate measures vary based on pre-fire forest condition. [Another key finding](#) is that the severity of a first entry fire impacts burn severity of subsequent fires in ways that are not always captured with commonly used indices like RdNBR, particularly surface fire effects. A data paper detailing the relationships (crosswalks) between RdNBR/RBR/dNBR and basal area loss and canopy cover loss is a forthcoming project as a result of this research.

Bio: Saba is a 2nd year PhD student in the Graduate Group in Ecology (GGE) at UC Davis studying fire effects and regeneration patterns in the Central Sierra Nevada. Prior to being at Davis, Saba completed her MS at the University of Washington and also worked as a research scientist analyzing forest structure change using aerial and spaceborne lidar as well as aerial photogrammetry.



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