

# Abstract

## **Remote-Sensing of Sagebrush Community Structural Patterns Across Scales**

**Track:** Remote Sensing Imagery

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Numerous efforts have been made to classify and map sagebrush communities throughout the Intermountain West, however the amount of detail provided by these broad-scale mapping projects is often limited. This paper evaluates the relative efficacy of capturing ecological detail from remotely-sensed data that varies across spatial and spectral scales. Field data, including shrub density, cover, vigor, and spatial arrangement, provided a consistent basis for comparison with the imagery. Panchromatic, color-infra-red, and multi-spectral imagery, ranging from 0.3 to 30 meter pixel widths were used. Potential applications include evaluation of wildlife habitat conditions for sagebrush obligate species and fire management strategies.

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