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Supplementary Material

Riparian and adjacent upland forests burned synchronously during dry years in eastern Oregon (1650-1900 CE), USA

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Table S1. Potential vegetation groups for riparian and upland vegetation plots at the Dugout and Baker study areas, Blue Mountains, Oregon (Powell et al. 2007).

Plant association	Riparian		Upland	
	Baker	Dugout	Baker	Dugout
<u>Mesic plant associations (total)</u>	13	4	4	0
<i>Abies grandis/Acer glabrum</i>	9			
<i>Abies grandis/Clintonia uniflora</i>	1			
<i>Abies grandis/Linnaea borealis</i>	1		3	
<i>Abies grandis/Symphoricarpos albus</i>	2	2		
<i>Abies grandis/Vaccinium membranaceum</i>			1	
<i>Abies grandis/Vaccinium scoparium</i>		1		
<i>Pinus contorta (Abies grandis)/Vaccinium scoparium/Calamagrostis rubescens</i>		1		
<u>Dry plant associations (total)</u>	3	18	31	69
<i>Abies grandis/Carex geyeri</i>	2		1	3
<i>Abies grandis/Calamagrostis rubescens</i>		1	4	10
<i>Pinus ponderosa/Carex geyeri</i>			1	2
<i>Pinus ponderosa/Calamagrostis rubescens</i>		1		6
<i>Pinus ponderosa/Festuca idahoensis</i>			1	
<i>Pinus ponderosa/Symphoricarpos albus</i>		8		
<i>Pseudotsuga menziesii/Carex geyeri</i>	1	2	3	8
<i>Pseudotsuga menziesii/Calamagrostis rubescens</i>			19	40
<i>Pseudotsuga menziesii/Cercocarpus ledifolius/Carex geyeri</i>			2	
<i>Pseudotsuga menziesii/Symphoricarpos albus</i>		6		
Total	16	22	35	69

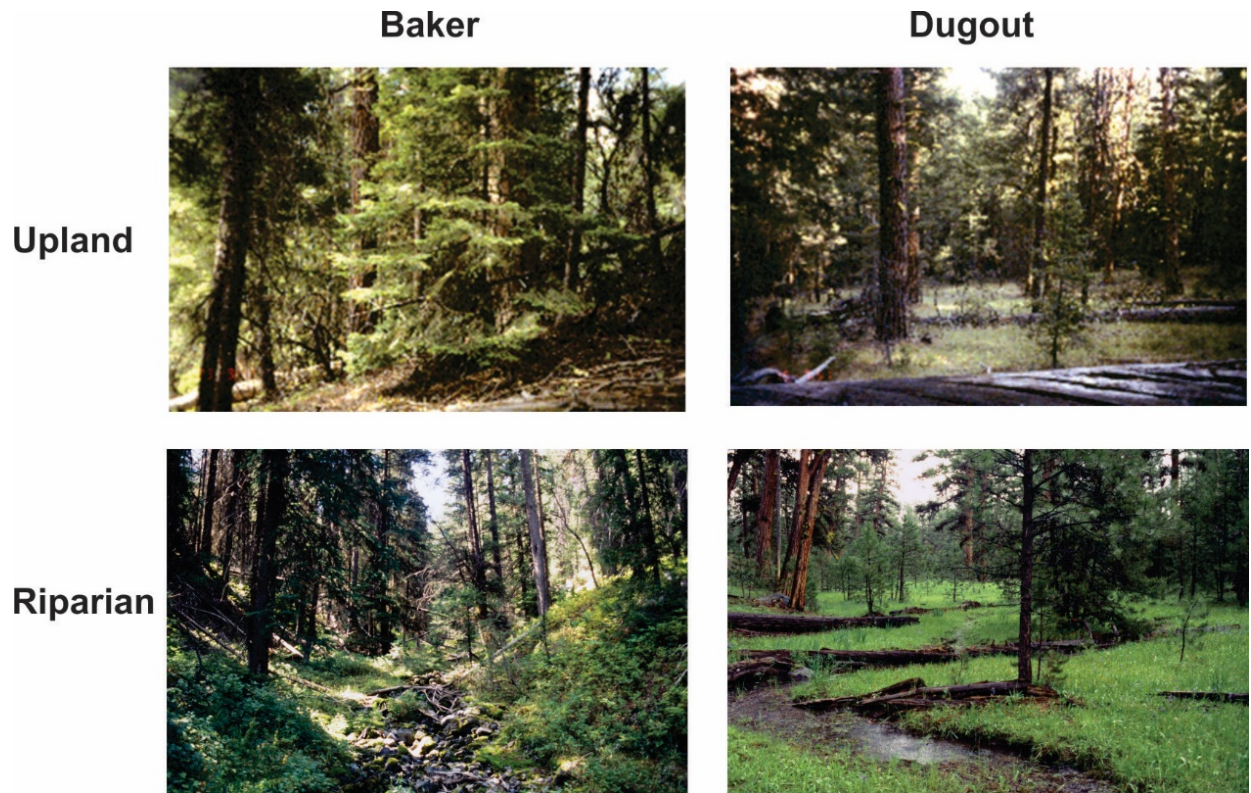


Figure S1. Photographs of riparian plots we sampled for this study, paired with a photograph of the corresponding upland plot that was sampled for another study (Heyerdahl et al. 2001). All photographs were digitized from slides taken in the mid to late 1990s. Fire was historically frequent in all four of these plots but was largely excluded by the late 1800s. As a consequence, it is likely that the understory vegetation in the late 1800s was different than it is today.

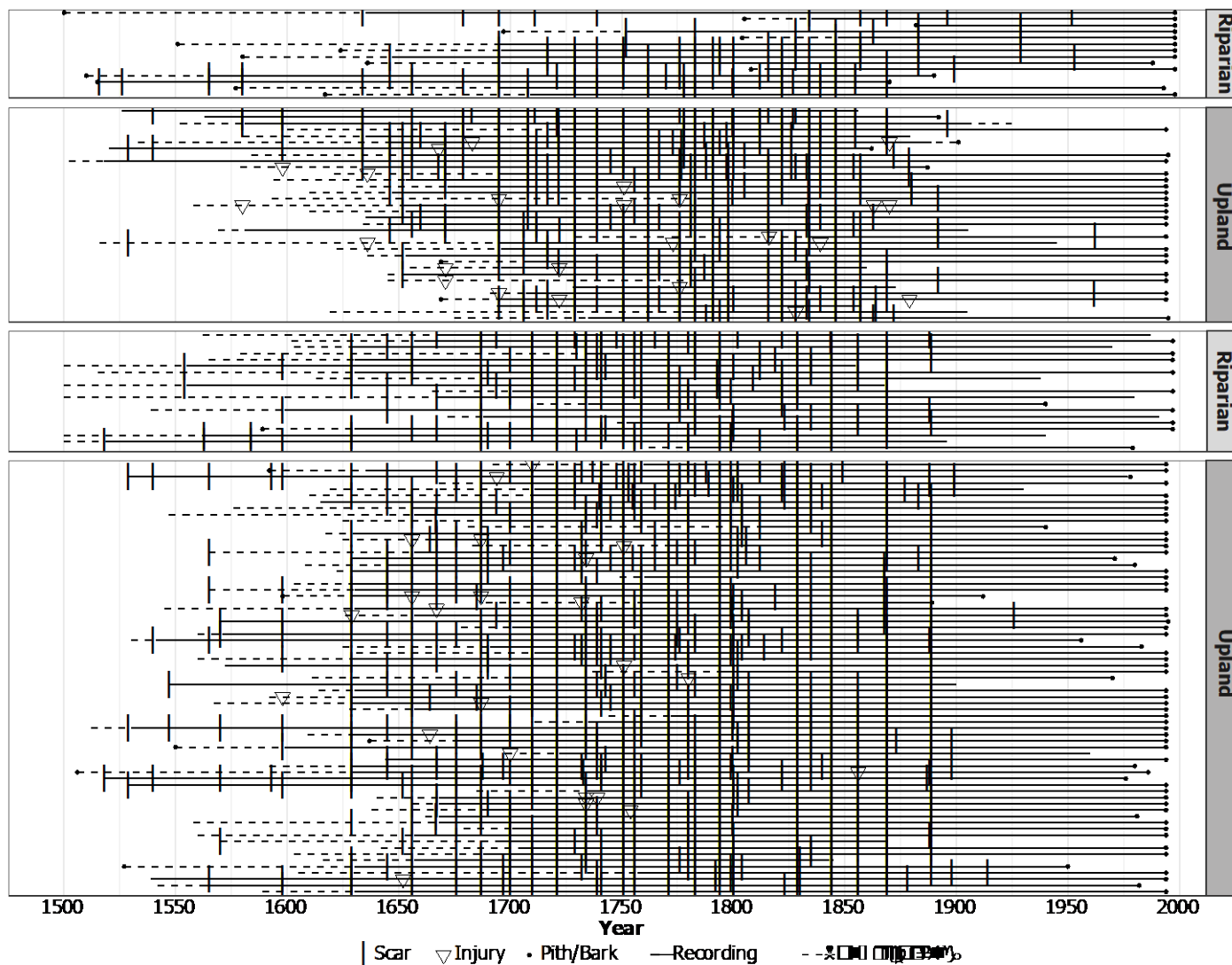


Figure S2. Fire history data for riparian (light grey) and upland (dark grey) plots at Dugout and Baker, respectively. Vertical black tick marks represent individual fire events. Upland plot data derived from Heyerdahl et al. (2001).

References

<jrn>Heyerdahl EK, Brubaker LB, Agee JK (2001) Spatial controls of historical fire regimes: a multiscale example from the interior west, USA. *Ecology* **82**, 660–678. doi:10.1890/0012-9658(2001)082[0660:SCOHER]2.0.CO;2 </jrn>

<jrn>Powell RL, Roberts DA, Dennison PE, Hess LL (2007) Sub-pixel mapping of urban land cover using multiple endmember spectral mixture analysis: Manaus, Brazil. *Remote Sensing of Environment* **106**, 253–267. doi:10.1016/j.rse.2006.09.005 </jrn>