A Recreation Ecology Perspective of the COVID-19 (SARS-CoV-2) Pandemic: Anticipated Parks and Protected Area Impacts Relating to

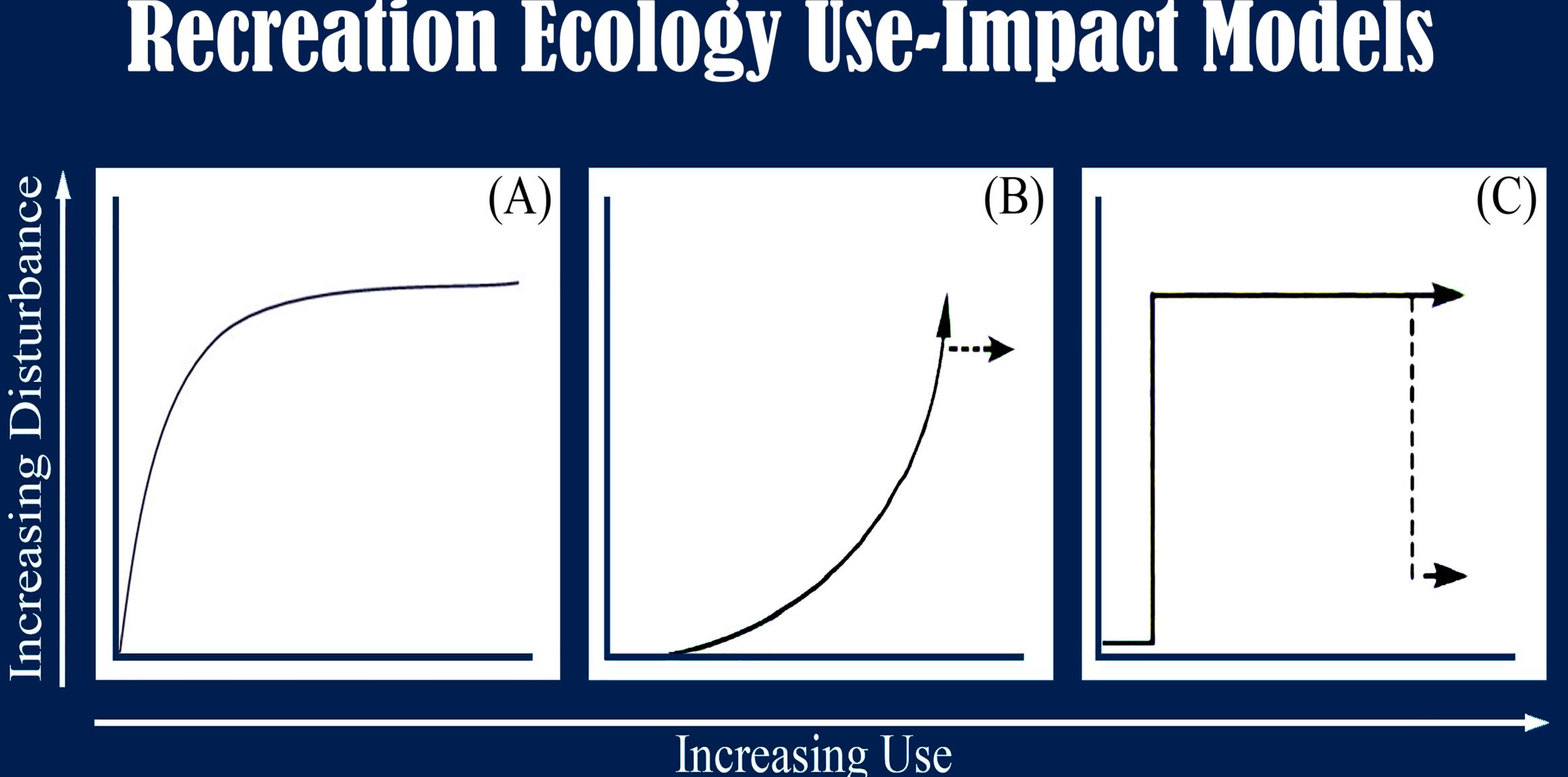
Visitor Spatial Use, Terrestrial Flora and Fauna, and Management Lara A. Jacobs, Susan A. Sidder, Jenna Baker, Evan M. Bredeweg, Rosario Allende, and Ashley D'Antonio Oregon State University, College of Forestry, Department of Forest Ecosystems and Society • Lara. Jacobs@oregonstate.edu Upcoming Publication in Parks Stewardship Forum, May 2021

NTRODUCTION

- 2020: Pandemic-related park and protected area closures
- CDC guidelines for social distancing, travel restrictions, mask-wearing, limiting group sizes and social gatherings
- How might this impact visitor spatial use, terrestrial flora and fauna, and park management?

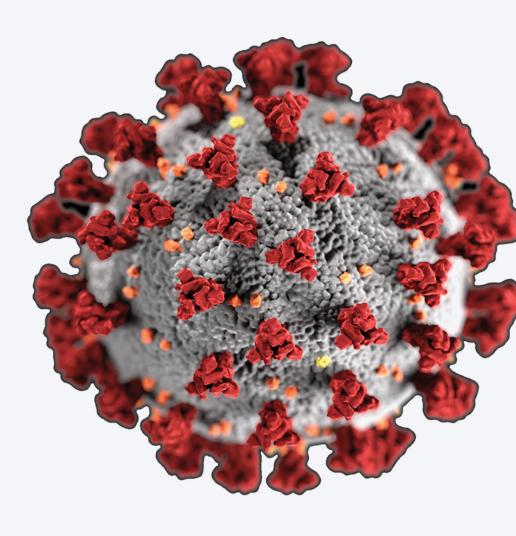
METHODS

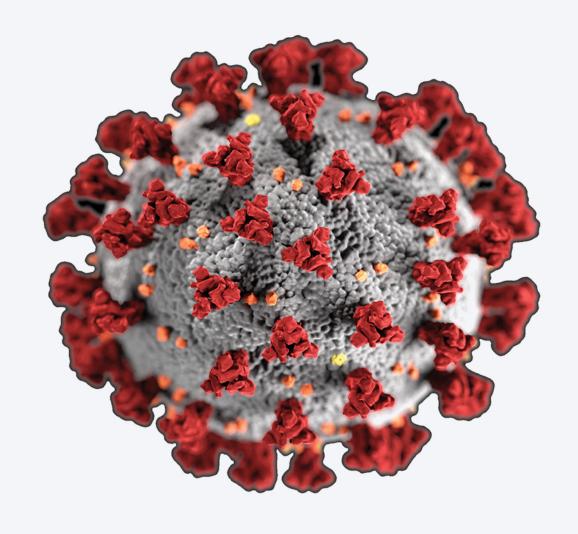
- Examine how pandemic-related park and protected area management in the general Corvallis, OR area may trigger shifts in recreational spatial behaviors
- Using recreation ecology models, we theorize potential impacts on visitor spatial use, terrestrial flora and fauna, and park management



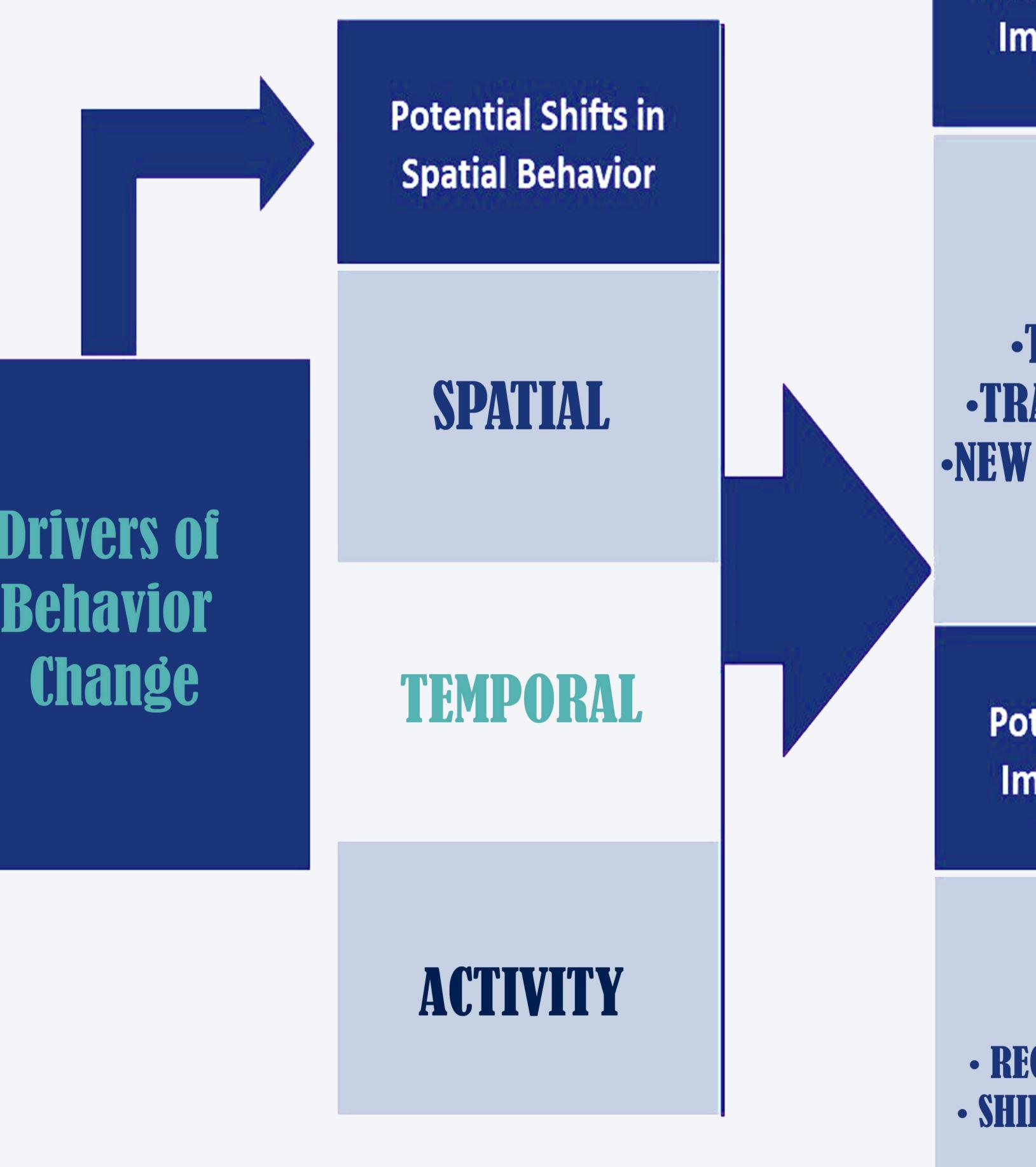
(A) ecological impacts generally; (B) som erosion; (C) and faunal responses (fight of might; Monz, et al. 2010; Monz et al. 2013).







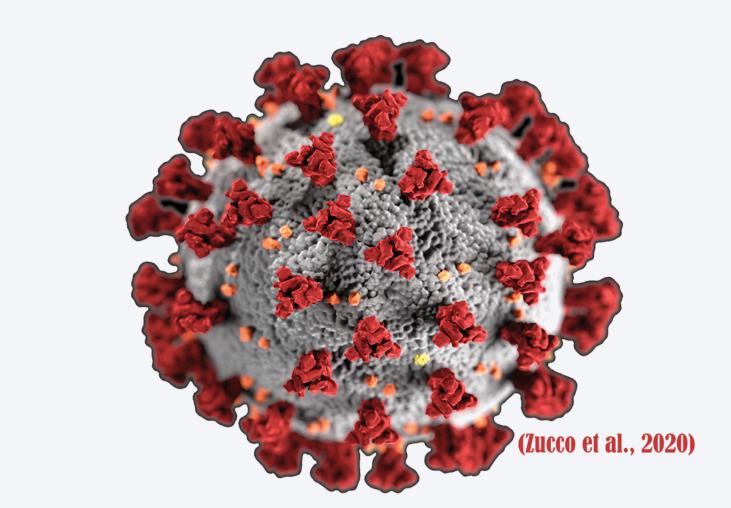
The COVID-19 Pandemic may shift outdoor recreationists' behaviors on spatial, temporal, and activity scales, and subsequently create positive and negative impacts to terrestrial flora and fauna, visitor experiences, and human health.





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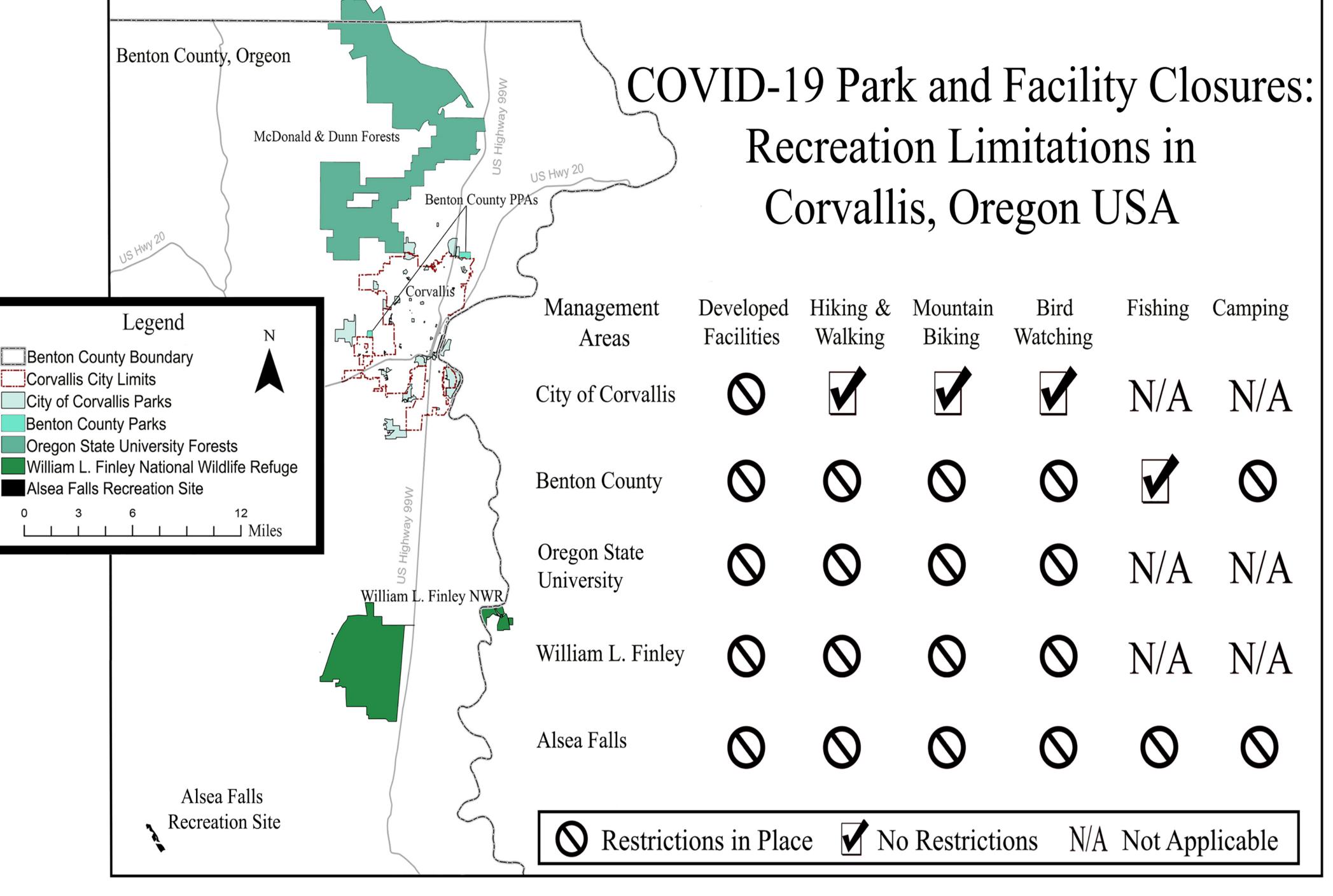


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Potential Positive Impacts to Flora	Potential Positive Impacts to Fauna	Potential Positive Impacts to Visitor Experience/Human Health
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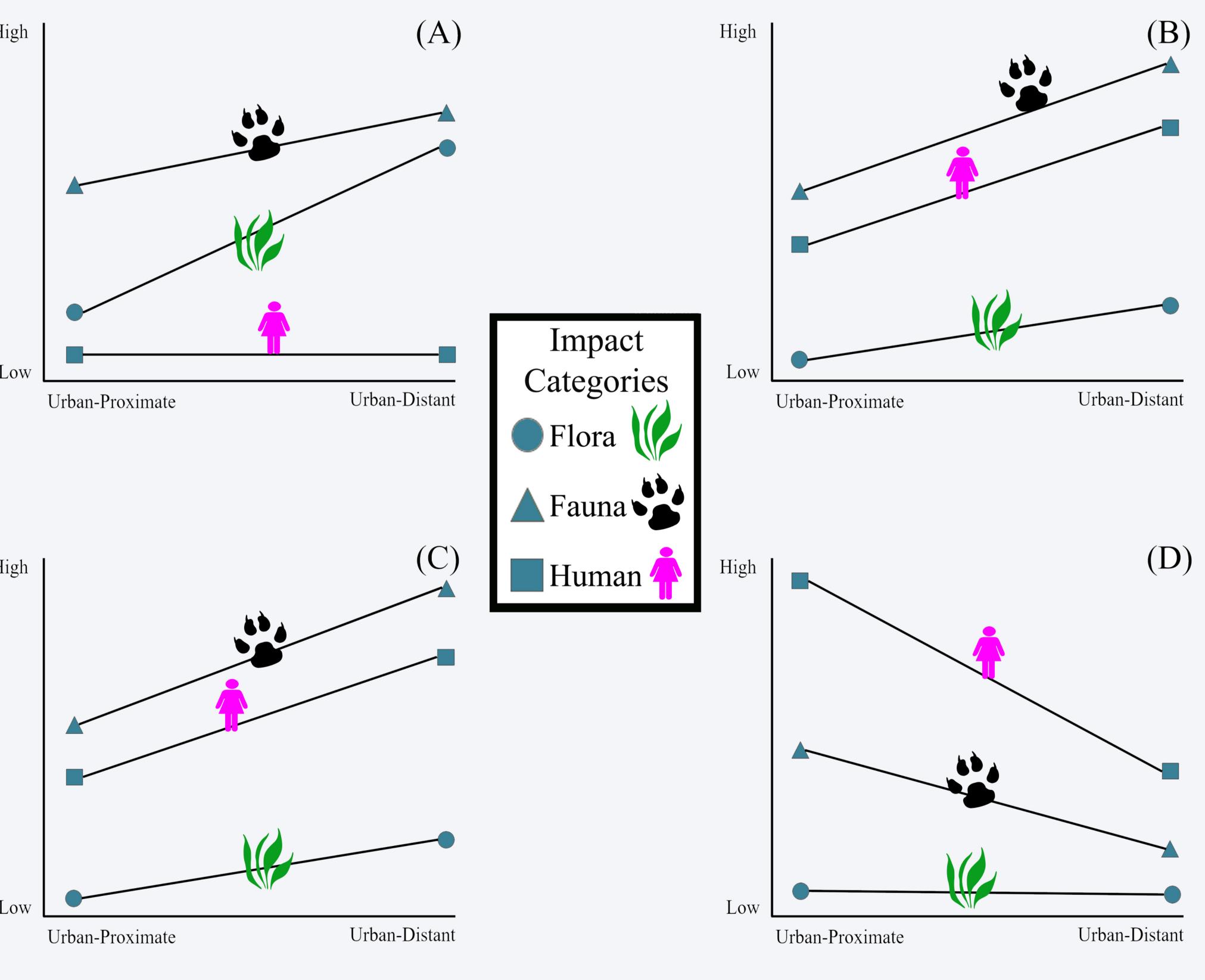


ADDITIONAL BACKGROUND INFORMATION: CORVALLIS, OR COVID-19 PARK CLOSURES



This figure shows Corvallis area parks and protected areas and the associated recreation impacts stemming from COVID-19 closures and facility restrictions. Developed facilities include restrooms, playgrounds, basketball courts, pavilions, etc.

ADDITIONAL RESULTS: EXPECTED MAGNITUDE OF IMPACTS



Park and Protected Area Locations

A) social trail proliferation; B) increased human-fauna interactions; C) improper human waste disposal; D) park and protected area closures and restrictions due to COVID-19. We established these models based on our judgment and knowledge of recreation ecology literature. These relationships will depend on the specific PPA and visitor spatial behaviors. This figure demonstrates how impact magnitudes may vary by PPA-type and system components (humans, flora, and fauna). 'Human' refers to impacts on human health and visitor experiences.