## Potential Conflict between Future Development of Natural Resources and High-Value Wildlife Habitats in Boreal Landscapes

## **Biodiversity and Conservation**

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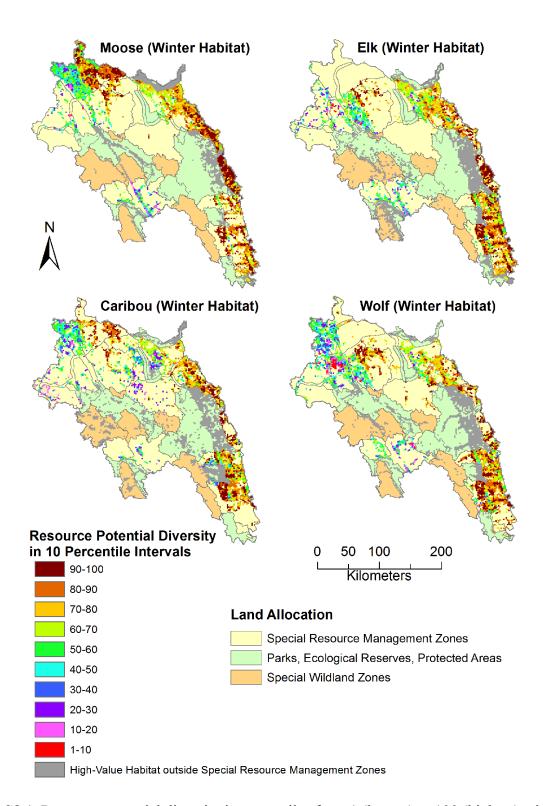
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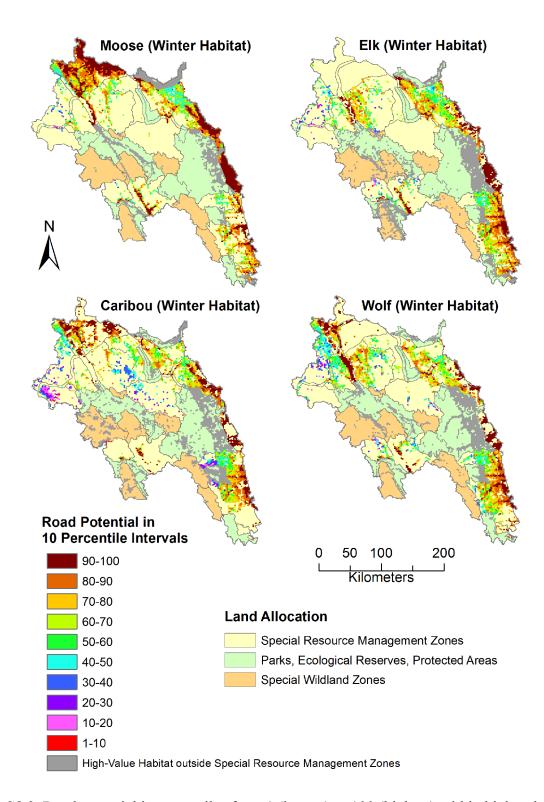
## Online Resource 8. Spatial Distributions of High-Value Wildlife Habitats and Resource Potentials

Spatial distributions of high-value wildlife habitats in the Muskwa-Kechika Management Area, northeast British Columbia, Canada, overlapping areas with different levels of:

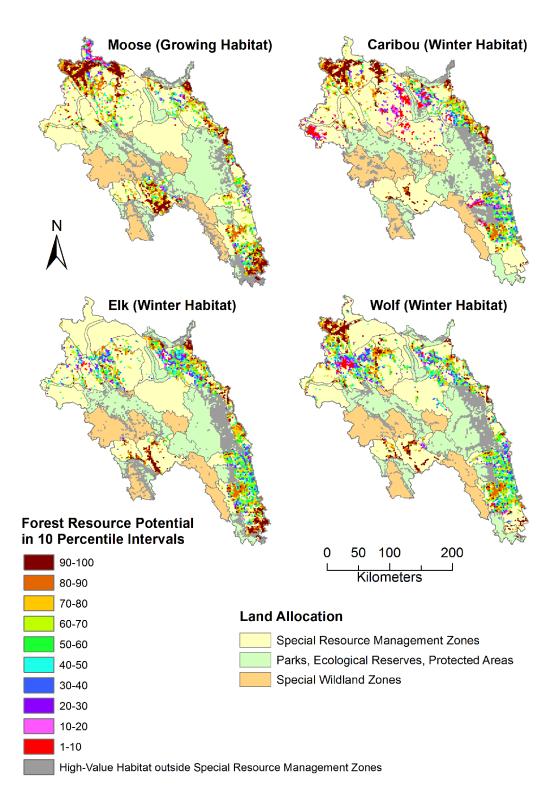
- 1) resource potential diversity (Fig. S8.1 moose, elk, caribou, and wolves
- 2) road potential (Fig. S8.2) moose, elk, caribou, and wolves
- 3) forest resource potential (Fig. S8.3) moose, elk, caribou, and wolves
- 4) oil and gas potential (Fig. S8.4) moose, elk, caribou, and wolves
- 5) mineral potential (Fig. S8.5) mountain goats, Stone's sheep, grizzly bears, and moose
- 6) wind power potential (Fig. S8.6) moose, elk, caribou, and wolves
- 7) selected resource potentials (Fig. S8.7) grizzly bears



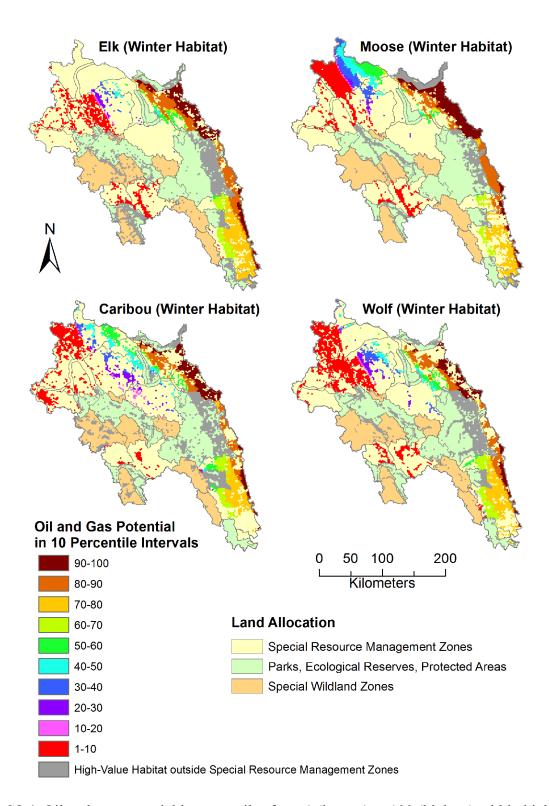
**Fig. S8.1** Resource potential diversity in percentiles from 1 (lowest) to 100 (highest) within high-value habitats for moose, elk, wolves, and caribou in Special Resource Management Zones of the Muskwa-Kechika Management Area, northeast British Columbia, Canada. These species-season combinations showed the most overlap between high-value habitats and high resource potential diversity (top 30 percentiles, Fig. 5)



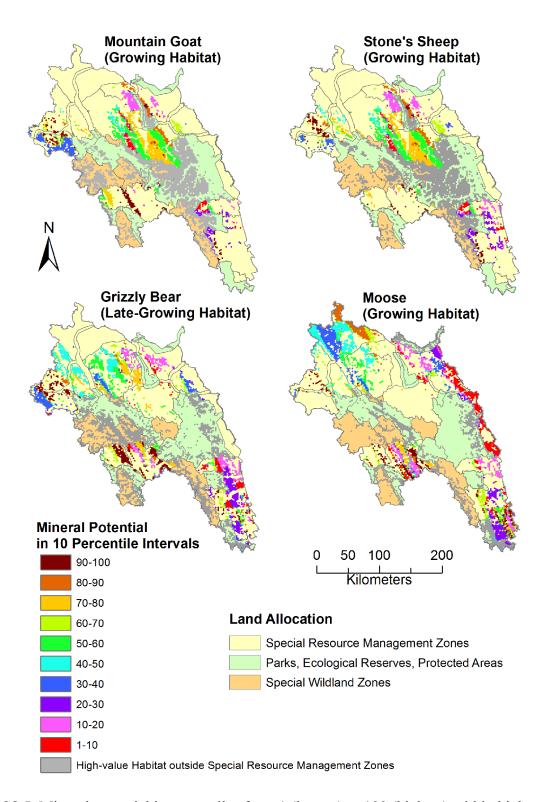
**Fig. S8.2** Road potential in percentiles from 1 (lowest) to 100 (highest) within high-value habitats for moose, elk, caribou, and wolves in Special Resource Management Zones of the Muskwa-Kechika Management Area, northeast British Columbia, Canada. These species-season combinations showed the most overlap between high-value habitats and high road potential (top 30 percentiles, Fig. 5)



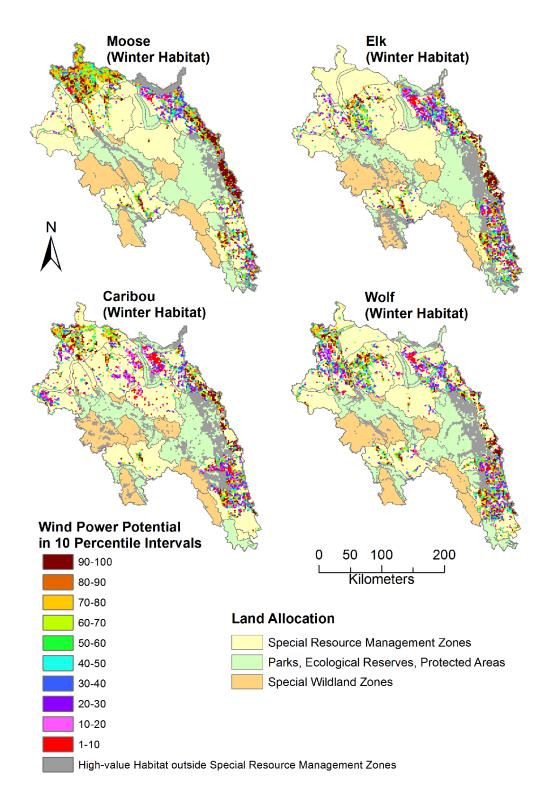
**Fig. S8.3** Forest resource potential in percentiles from 1 (lowest) to 100 (highest) within high-value habitats for moose, caribou, elk, and wolves in Special Resource Management Zones of the Muskwa-Kechika Management Area, northeast British Columbia, Canada. These species-season combinations showed the most overlap between high-value habitats and high forest resource potential (top 30 percentiles, Fig. 5)



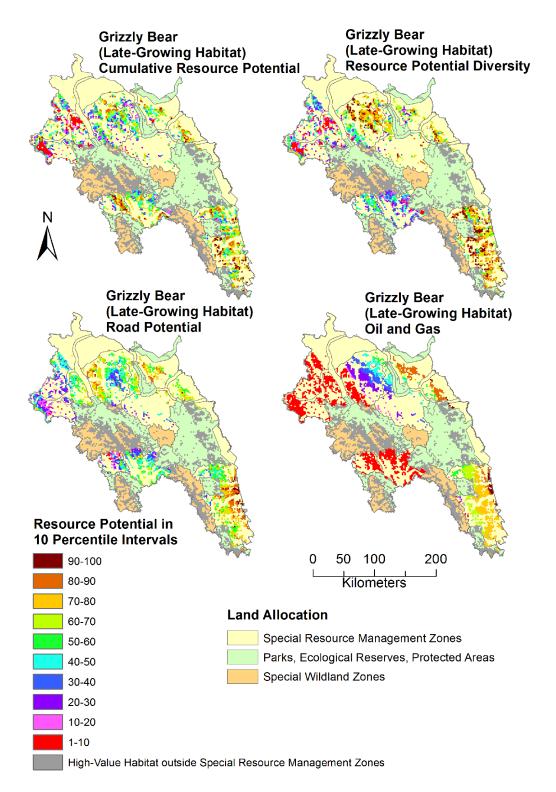
**Fig. S8.4** Oil and gas potential in percentiles from 1 (lowest) to 100 (highest) within high-value habitats for elk, moose, caribou, and wolves in Special Resource Management Zones of the Muskwa-Kechika Management Area, northeast British Columbia, Canada. These species-season combinations showed the most overlap between high-value habitats and high oil and gas potential (top 30 percentiles, Fig. 5)



**Fig. S8.5** Mineral potential in percentiles from 1 (lowest) to 100 (highest) within high-value habitats for mountain goats, Stone's sheep, grizzly bears, and moose in Special Resource Management Zones of the Muskwa-Kechika Management Area, northeast British Columbia, Canada. These species-season combinations showed the most overlap between high-value habitats and high mineral potential (top 30 percentiles, Fig. 5)



**Fig. S8.6** Wind power potential in percentiles from 1 (lowest) to 100 (highest) within high-value habitats for moose, elk, caribou, and wolves in Special Resource Management Zones of the Muskwa-Kechika Management Area, northeast British Columbia, Canada. These species-season combinations showed the most overlap between high-value habitats and high wind power potential (top 30 percentiles, Fig. 5)



**Fig. S8.7** Four measures of resource potential (cumulative resource potential, resource potential diversity, road potential, and oil and gas potential) in percentiles from 1 (lowest) to 100 (highest) within high-value habitat for grizzly bears in Special Resource Management Zones of the Muskwa-Kechika Management Area, northeastern British Columbia, Canada, in addition to mineral potential already shown (Fig. S8.5)