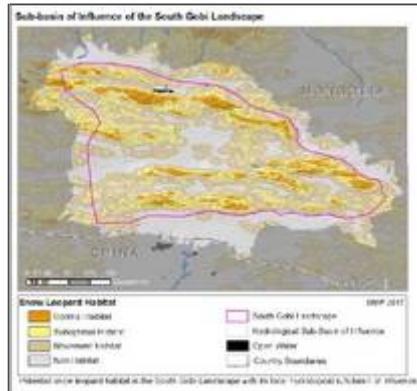


Potential Snow Leopard Habitat in the South Gobi Landscape, Mongolia

Shapefile



Tags

There are no tags for this item.

Summary

This dataset represents potential snow leopard habitat of the South Gobi Snow Leopard Landscape, Mongolia.

Description

This dataset represents potential snow leopard habitat of the South Gobi Snow Leopard Landscape, Mongolia.

This model was developed to represent expert opinion about snow leopard habitat use in the South Gobi. In this landscape, snow leopards tend to gravitate toward rugged, elevated mounts which provide shelter and viewpoints from which to observe prey. Snow leopards move frequently between mounts that are close together (2-3 km). But, they can also move long distances with less frequency but as needed (15-40 km in a day). Based on this knowledge, we produced the following definitions.

Optimal habitat: Rugged areas that are best for snow leopards because they include adequate shelter for breeding and raising young, and mounts from which to target prey. We defined rugged areas as those areas where Terrain Ruggedness Index (TRI) > 270. TRI was generated from a 90-m void-filled DEM, based on a 3x3 pixel neighborhood (Riley et al. 1999, Lehner et al. 2008). This threshold was selected because it overlay well with snow leopard observations (ISLT et al. 2008). It also coincided with a snow leopard habitat prediction generated through this study with a maxent model (Phillips et al. 2006) based on slope, ruggedness and DEM (Lehner et al. 2008) and snow leopard observations (ISLT et al. 2008). . (Gridcode/Value = 1)

Suboptimal habitat: Connects optimal habitat patches located up to 3 km apart (Gridcode/Value = 2)

Movement habitat: Connects optimal habitat patches located up to 15 km apart . (Gridcode/Value = 3)

Nonhabitat: everything else. (Gridcode/Value = 0)

Credits

Forrest, J., Sindorf, N., Sharma, K. 2017. Landscape Analysis and Mapping of Snow Leopard Habitat in the South Gobi Landscape, Mongolia. Chapter 6 of 6 in Landscape Mapping for Biodiversity Conservation, Water Resources Management, and Climate Adaptation at Six Sites in the Snow Leopard Range (eds. Forrest, J., Bartlett, R., Sindorf, N.). Available at: www.thirdpolegeolab.org

Use limitations

There are no access and use limitations for this item.

Extent

West 95.001148 **East** 105.000454
North 48.559270 **South** 41.468429

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

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