

Appendix S1

**Current overlapping distribution of megaherbivores and top predators: an approach to the last terrestrial areas with ecological integrity**

**Appendix S1:** Sources for former distributions. Contractions in distribution ranges of targeted taxa were determined from former distributions taken both from the IUCN Red List and from bibliography searching (when necessary).

Species	Source
<i>Bison bison</i>	C. C. Gates, C. H. Freese, P.J. Gogan, M. Kotzman, <i>American Bison: Status Survey and Conservation Guidelines</i> . (IUCN, Gland, Switzerland, 2010).
<i>Bison bonasus</i>	N. Benecke, The Holocene distribution of European bison - the archaeozoological record. <i>Munibe (Antropologia_Arkeologia)</i> . <b>57</b> , 421-428 (2005).
<i>Bos grunniens/B. mutus</i>	Q. Shi, Y. Guo, S. Engelhardt, R. Weladji, Endangered wild yak ( <i>Bos grunniens</i> ) in the Tibetan plateau and adjacent regions: Population size, distribution, conservation perspectives and its relation to the domestic subspecies. <i>J. Nat. Conserv.</i> <b>32</b> , 35–43 (2016).
<i>Bos primigenius</i>	T. Van Vuure, <i>Retracting the Aurochs: History, Morphology and Ecology of an Extinct Wild Ox</i> . (Pensoft, Sofia, Bulgaria, 2005).
<i>Camelus bactrianus</i>	M. Root-Bernstein, J. C. Svenning, Prospects for rewilding with camelids. <i>J. Arid Environ.</i> <b>130</b> , 54–61 (2016).
<i>Camelus dromedarius</i>	M. Root-Bernstein, J. C. Svenning, Prospects for rewilding with camelids. <i>J. Arid Environ.</i> <b>130</b> , 54–61 (2016).

<i>Camelus ferus</i>	M. Root-Bernstein, J. C. Svenning, Prospects for rewilding with camelids. <i>J. Arid Environ.</i> <b>130</b> , 54–61 (2016).
<i>Cervus elaphus/C. canadensis</i>	D.E. Toweill, J. W. Thomas, <i>North American elk: ecology and management.</i> (Wildlife Management Institute, Washington, D.C., USA, 2002).
<i>Dicerorhinus sumatrensis</i>	T. J. Foose, N. van Strien, <i>Asian Rhinos – Status Survey and Conservation Action Plan.</i> (IUCN, Gland, Switzerland, and Cambridge, UK, 1997).
<i>Diceros bicornis</i>	A. K. Hillman-Smith, C.P Groves, <i>Diceros bicornis. Mamm. Species.</i> <b>1</b> (1994).
<i>Equus ferus</i>	P. J. Naundrup, J. C. Svenning, A Geographic Assessment of the Global Scope for Rewilding with Wild-Living Horses ( <i>Equus ferus</i> ). <i>PLoS ONE</i> <b>10</b> , e0132359 (2015).
<i>Equus kiang</i>	B. Clark, P. Duncan, <i>Asian wild asses - hemionus and kiangs (E. hemionus Pallas and E. kiang Moorcroft), Zebras, Asses, and Horses. An Action Plan for the Conservation of Wild Equids.</i> (IUCN, Gland, Switzerland, 1992).
<i>Elephas maximus</i>	R. Olivier, Distribution and Status of the Asian Elephant. <i>ORYX.</i> <b>14</b> , 379-424 (1978).
<i>Giraffa camelopardalis</i>	D. O’connor, J. Stacy-Dawes, A. Muneza, J. Fennesy, K. Gobush, M. J. Chase, M.B. Brown, C. Bracis, P. Elkan, A. R. M Zaberirou, T. Rabeil, D. Rubenstein,

	M. S. Becker, S. Phillips, J. A. Stabach, P. Leimgruber, J. A. Glikman, K. Ruppert, S. Masiaine, T. Mueller, Updated geographic range maps for giraffe, <i>Giraffa</i> spp., throughout sub-Saharan Africa, and implications of changing distributions for conservation. <i>Mamm Rev.</i> <b>49</b> , 285–299 (2019).
<i>Lama guanicoe</i>	M. Root-Bernstein, J. C. Svenning, Prospects for rewilding with camelids. <i>J. Arid Environ.</i> <b>130</b> , 54–61 (2016).
<i>Loxodonta atricana</i>	W. F. de Boer, F. Van Langevelde, H. H. Prins, P. C. de Ruiter, J. Blanc, M. J. P. Vis, K. J. Gaston, I. D. Hamilton, Understanding spatial differences in African elephant densities and occurrence, a continent-wide analysis. <i>Biol. Conserv.</i> <b>159</b> , 468–476 (2013).
<i>Panthera leo</i>	<a href="https://www.panthera.org/cat/lion">https://www.panthera.org/cat/lion</a>
<i>Panthera onca</i>	<a href="https://www.panthera.org/cat/jaguar">https://www.panthera.org/cat/jaguar</a>
<i>Panthera tigris</i>	<a href="https://www.panthera.org/cat/tiger">https://www.panthera.org/cat/tiger</a>
<i>Puma concolor</i>	<a href="https://www.panthera.org/cat/puma">https://www.panthera.org/cat/puma</a>
<i>Rangifer tarandus</i>	M. Festa-Bianchet, J. C. Ray, S. Boutin, S. D. Côté, A. Gunn, A, Conservation of caribou ( <i>Rangifertarandus</i> ) in Canada: an uncertain future. <i>Can. J. Zool.</i> <b>89</b> , 419–434 (2015).
<i>Rhinoceros unicornis</i>	P. Ghimire, Conservation Status of Greater One-horned Rhinoceros ( <i>Rhinoceros unicornis</i> ) in Nepal: A

	Review of Current Efforts and Challenges. <i>GJN.3</i> , 1–14 (2020).
<i>Rinoceros sondaicus</i>	J. Thomas, N. van Strien, <i>Asian Rhinos – Status Survey and Conservation Action Plan</i> . (IUCN, Gland, Switzerland, and Cambridge, 1997).