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Research interest:

- Conservation and management of forest biodiversity.
- Use of surrogate species in conservation biology.
- Ecology of woodpeckers and their conservation.
- Ecosystem services provided by forest environments.

Current research projects:

- Advancing cost-effectiveness of conservation action plans: White-backed Woodpecker in Sweden as an example
- Use of ecosystem services provided by the Białowieża Primeval Forest
- Applying habitat models in monitoring forest biodiversity status at the regional level
- Blooming silk cotton trees *Bombax ceiba* as a food source for bird communities in Chitwan area, Nepal

Publications in scientific journals

1. Mikusiński, G., Blicharska, M., Antonson, H., Henningsson, M., Göransson, G., Angelstam, P. & Seiler, A. Integrating ecological, social and cultural dimensions in the implementation of the Landscape Convention. *Landscape Research*. In press.
2. Gustafson, D. H., Malmgren, J. C. & Mikusiński, G. Terrestrial habitat predicts use of aquatic habitat for breeding purposes — a study on the great crested newt (*Triturus cristatus*). *Annales Zoologici Fennici*. In press.
3. Edman, T. H., Angelstam, P., Mikusiński, G., Roberge, J. M. & Sikora, A. 2011. Spatial planning for biodiversity conservation: assessment of forest landscapes' conservation value using umbrella species requirements in Poland. *Landscape and Urban Planning* **102**:16-23.
4. Edenius, L., Mikusiński, G. & Bergh, J. 2011. Can repeated fertilizer applications to young Norway spruce enhance avian diversity in intensively managed forests? *Ambio* **40**:521-527.
5. Blicharska, M. & Mikusiński, G. 2011. Think bigger for conservation. *Nature* **470**:39.
6. Öhman, K., Edenius, L. & Mikusiński, G. 2011. Optimizing spatial habitat suitability and timber revenue in long-term forest planning. *Canadian Journal of Forest Research* **41**:543–551. doi:10.1139/X10-232
7. Mikusiński, G., Blicharska, M. & Baxter, P. 2010. Costs and benefits of ivory-billed woodpecker “re-discovery”. *Frontiers in Ecology and the Environment* **8**:460.
8. Roberge, J. M., Mikusiński, G. & Possingham, H. 2010. Has the term “conservation biology” had its day? *Frontiers in Ecology and the Environment* **8**:121.
9. Duit, A., Hall, O, Mikusiński, G. & Angelstam P. 2009. Saving the Woodpeckers: social capital, governance, and policy performance. *Journal of Environment & Development* **18**:42-61.
10. Gustafson, D. H., Andersen, A. S. L., Mikusiński, G. & Malmgren, J. C. 2009. Pond quality determinants for occurrence patterns of Great Crested Newts (*Triturus cristatus*). *Journal of Herpetology* **43**:300-310.
11. Roberge, J. M., Mikusiński, G. & Svensson, S. 2008. The white-backed woodpecker: umbrella species for forest conservation planning? *Biodiversity & Conservation* **17**:2479-2494.
12. Mikusiński, G., Pressey, R. L., Edenius, L., Kujala, H., Moilanen, A., Niemelä, J., & Ranius, T. 2007. Conservation planning in forest landscapes of Fennoscandia and an approach to the challenge of Countdown 2010. *Conservation Biology* **21**:1445–1454.
13. Cassing, G., Greenberg, L. & Mikusiński, G. 2006. Moose (*Alces alces*) browsing in young forest stands in central Sweden: a multi-scale perspective. *Scandinavian Journal of Forest Research* **21**:221-230.
14. Sandström, U.G., Angelstam, P. & Mikusiński, G. 2006. Ecological diversity of birds in relation to the structure of urban green space. *Landscape and Urban Planning* **77**:39-53.
15. Mikusiński, G. 2006. Woodpeckers (Picidae) - distribution, conservation and research in a global perspective. *Annales Zoologici Fennici* **43**:86–95.
16. Edenius, L. & Mikusiński, G. 2006. Utility of habitat suitability models as biodiversity assessment tools in forest management. *Scandinavian Journal of Forest Research* **21** (Suppl. 7):62-72.
17. Mikusiński, G. & Edenius, L. 2006. Assessment of spatial functionality of old forest in Sweden as habitat for virtual species. *Scandinavian Journal of Forest Research* **21** (Suppl. 7):73-83.
18. Manton, M.G., Angelstam, P. & Mikusiński, G. 2005. Modelling habitat suitability for deciduous forest focal species - a sensitivity analysis using different satellite land cover data. *Landscape Ecology* **20**:827-839.

19. Mikusiński, G. & Angelstam P. 2004. Occurrence of mammals and birds with different ecological characteristics in relation to forest cover in Europe – do macroecological data make sense? *Ecological Bulletines* 51:265 - 275.
20. Angelstam, P., Mikusiński, G. & Fridman, J. 2004. Natural forest remnants and transport infrastructure – does history matter for biodiversity conservation planning? *Ecological Bulletins* 51:149-162.
21. Angelstam, P., Roberge, J.M., Löhmus, A., Bergmanis, M., Brazaitis, G., Breuss, M., Edenius, L., Kosinski, Z., Kurlavicius, P., Lārmanis, V., Lūkins, M., Mikusiński, G., Račinskis, E., Strazds & M., Tryjanowski, P. 2004. Habitat modelling as a tool for landscape-scale conservation – a review of parameters for focal forest birds. *Ecological Bulletins* 51:427-453.
22. Mikusiński, G., Angelstam, P. & Sporrang, U. 2003. Distribution of deciduous stands in villages located in coniferous forest landscapes in Sweden. *Ambio* 32:520-526.
23. Angelstam, P., Mikusiński, G., Rönnbäck, B.- I., Östman, A. Lazdinis, M., Roberge, J.M., Arnberg, W. & Olsson, J. 2003. Two-dimensional gap analysis - improving strategic and tactic conservation planning and biodiversity policy implementation. *Ambio* 32:527-534.
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25. Angelstam, P., Bütler, R., Lazdinis, M., Mikusiński, G. & Roberge, J.M. 2003. Habitat thresholds for focal species at multiple scales and forest biodiversity conservation – dead wood as an example. *Annales Zoologici Fennici* 40:473-482.
26. Nilsson, S. G., Niklasson, M., Hedin, J., Aronsson, G., Gutowski, J. M., Linder, P., Ljungberg, H., Mikusiński, G. & Ranius, T. 2002: Densities of large living and dead trees in old-growth temperate and boreal forests. *Forest Ecology and Management* 161:189-204.
27. Mikusiński, G., Gromadzki, M. & Chylarecki, P. 2001: Woodpeckers as indicators of forest bird diversity. *Conservation Biology* 15:208-217.
28. Åberg, J., Jansson, G., Svenson, J. E. & Mikusiński, G. 2000: Difficulties in detecting habitat selection by animals in generally suitable areas. *Wildlife Biology* 6:89-99.
29. Angelstam, P., Runfors, O. Mikusiński, G. & Seiler, Ch. 2000. Long-term dynamics of three types of black grouse habitat in the centre and at the edge of the distribution range in Sweden 1850 – 2000. *Cahiers d'Ethologie* 20:165-190.
30. Mikusiński, G. & Angelstam, P. 1998: Economic geography, forest distribution and woodpecker diversity in central Europe. *Conservation Biology* 12:200-208.
31. Engstrom, T. & Mikusiński, G. 1998: Ecological neighborhoods in Red-cockaded Woodpecker populations. *Auk* 115:473-477.
32. Mikusiński, G. 1997: Winter foraging of the Black Woodpecker in managed forest in south-central Sweden. *Ornis Fennica* 74:161-166.
33. Mikusiński, G. & Angelstam, P. 1997: European woodpeckers and anthropogenic habitat change - a review. *Die Vogelwelt* 118:277-283.
34. Saari, L. & Mikusiński, G. 1996: Population fluctuations of woodpecker species on the Baltic island of Aasla, SW Finland. *Ornis Fennica* 73:168-178.
35. Mikusiński, G. 1995: Population trends in black woodpecker in relation to changes and characteristics of European forests. *Ecography* 18:363-369.
36. Angelstam, P., & Mikusiński, G. 1994: Woodpecker assemblages in natural and managed boreal and hemiboreal forest - a review. *Annales Zoologici Fennici* 31:157-172.
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Other publications in English

38. Possingham, H., Baxter, P. & **Mikusiński, G.** 2010. Real conservation targets: what have the Swedes got that we haven't? *Decision Point* 37:2-3.
39. Gren, I-M., Baxter, P., **Mikusiński, G.** 2010. Optimal provision of an umbrella species – white-backed woodpecker – in Sweden with uncertain habitat quality and costs. Working paper 2010:6, Department of Economics, SLU, Uppsala, Sweden.
40. **Mikusiński, G.**, Seiler, A., Angelstam, P., Blicharska, M., & Törnblom, J. 2007. Indicators and focal species for evaluating ecological effects of transport infrastructure. In: B. Jackowiak (ed.). Influence of Transport Infrastructure on Nature. General Directorate of National Roads and Motorways, Warszawa - Poznań - Lublin. Pp. 31-38.
41. Jackowiak, B., Iuell, B., Bekker, H., **Mikusiński, G.**, Ratynska, H. & Wojterska, M. 2007. Environmental assessments in the context of discussion on the effects of transport infrastructure on nature. In: B. Jackowiak (ed.). Influence of Transport Infrastructure on Nature. General Directorate of National Roads and Motorways, Warszawa - Poznań - Lublin. Pp. 235-236.
42. **Mikusiński, G.** 2007. Some remarks concerning International Scientific Technical Conference "Influence of Transport Infrastructure on Nature", September 13-15, 2006, Poznań, Poland. In: B. Jackowiak (ed.). Influence of Transport Infrastructure on Nature. General Directorate of National Roads and Motorways, Warszawa - Poznań - Lublin. Pp. 233-234.
43. Angelstam, P., Breuss, M., **Mikusiński, G.**, Stenström, M., Stighäll, K. and Thorell, 2002. Effects of forest structure on the presence of woodpeckers with different specialisation in a landscape history gradient in NE Poland. In: Chamberlain, D. and Wilson, D. Avian Landscape Ecology. Proceedings of the 2002 Annual IALE (UK) Conference held in University of East Anglia. Pp. 25-38.
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45. Angelstam, P. Breuss, M. and **Mikusiński, G.** 2001. Toward the assessment of forest biodiversity of forest management units – a European perspective. In: Franc, A., Laroussinie, O., Karjalainen, T. (eds.). Criteria and indicators for sustainable forest management at the forest management unit level. European Institute Proceedings 38: 59-74. Gummerus printing, Saarijärvi, Finland.
46. **Mikusiński, G.** and Angelstam, P. 1999. Man and deciduous trees in boreal landscape. In: Kovar P. [ed]: Nature and Culture in Landscape Ecology. Experience for the 3rd Millennium. The Karolinum Press, Prague, p. 220-224.

Publications in Swedish

47. Öhman, K., Edenius, L., Ericsson, J-O. & **Mikusiński, G.** 2008. Habitatmodeller och flermålsanalys – en väg till effektivare planering av skogslandskapet. FaktaSkog 5:2008
48. Edenius, L. & **Mikusiński, G.** 2008. Habitat förutsäger biologisk mångfald i skogslandskapet! Forskningsprogram Heureka. Årsrapport (Annual report) 2007. Pp. 12-13.
49. **Mikusiński, G.** & Edenius, L. 2007. Zonation testas i Örebro län. Forskningsprogram Heureka. Årsrapport (Annual report) 2006. Pp. 10-11.

50. Edenius, L. & **Mikusiński, G.** 2005. Planeringsverktyg för biologisk mångfald i morgondagens skogar. FaktaSkog 2:2005.
51. Edenius, L. & **Mikusiński, G.** 2005. Planeringsverktyg för biologisk mångfald (Planning tools for biological diversity). In: Ingemarson, F. (Ed.) Har skogen mer att ge? Heureka årsrapport 2004. Fakulteten för skogsvetenskap, SLU. Rapport nr 20. Umeå. Pp. 83-89.
52. Seiler, A., Karlsson, J., Jaxgård, P., **Mikusiński, G.** & Angelstam, P. 2004. In: Jansson m.fl. Skogsvilt III. Vilt och landskap i förändring. Grimsö forskningsstation, Institutionen för viltbiologi, SLU, Riddarhyttan. Pp. 30-35.
53. Angelstam P. & **Mikusiński, G.** 2004. Landskapsanalys och paraplyarter. In: Jansson m.fl. Skogsvilt III. Vilt och landskap i förändring. Grimsö forskningsstation, Institutionen för viltbiologi, SLU, Riddarhyttan. Pp. 36 - 38.
54. Edenius, L. & **Mikusiński, G.** 2004. Landskapet ur arters perspektiv. Miljöaktuellt, SLU Uppsala.
55. Edenius, L. & **Mikusiński, G.** 2004. Sammanfattning från Heurekas vårexkursion, Remningstorp 13 maj 2004.
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61. **Mikusiński, G.** 1999: Att skydda biologisk mångfald i Polen. Biodiverse 2:4-5.
62. Jansson, G., Andrén, H. & **Mikusiński, G.** 1999: Indikatorer i skogslandskapet för mångfald av stannfåglar. Skog och Forskning 2:35-39.
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66. Angelstam, P., Rosenberg, P., **Mikusiński, G.**, & Ihse M. 1993. Lövträden i bestånd och landskap - historik och effekter på fåglar. Skog och Forskning 1:20-27.
67. Mikusiński, G. 1989: Tjockfot vid Hägernäs 15 juli 1988. Pandion 5:60.