

## LITERATURE CITED

- Akcakaya H.R. (1995). Linking landscape data with population viability analysis: management options for the helmeted honeyeater *Lichenostomus melanops cassidix*. *Biological Conservation*, **73**: 169-176.
- Anderson S.H. and K.J. Gutzwiller (1994). Habitat evaluation methods. Pp. 592-606. *In: Research and management techniques for wildlife and habitats*. T.A. Bookhout (Ed.). The Wildlife Society, Bethesda, Maryland.
- Arbia G. D. Griffith and R. Haining (1998). Error propagation modelling in raster GIS: overlay operations. *International Journal of Geographic Information Science*, **12**: 145-167.
- Aspinall R.J. (1992). An inductive modelling procedure based on Bayes' theorem for analysis of pattern in spatial data. *International Journal of Information Systems*, **6**: 105-121.
- Aspinall R.J. (2001). Modelling wildlife distribution from multi-scale spatial data with GIS. *In: Modelling scale in geographical information science*. Pp. 181-192. N. Tate and P. Atkinson (Eds.). John Wiley & Sons Ltd. England.
- Augustin N.H., M.A. Mugglestone and S.T. Buckland (1996). An autologistic model for the spatial distribution of wildlife. *Journal of Applied Ecology*, **33**: 339-347.
- Baker B.W., B.S. Cade, W.L. Mangus and J.L. McMillen (1995). Spatial analysis of sandhill crane nesting habitat. *Journal of Wildlife Management*, **59**: 752-758.
- Bath A.J. (1998). The role of human dimensions in wildlife resource research in wildlife management. *Ursus*, **10**: 349-355.
- Bath A.J. and T. Buchanan (1989). Attitudes of interest groups in Wyoming toward wolf restoration in Yellowstone National Park. *Wildlife Society Bulletin*, **17**: 519-525.
- Bekoff M. (2001). Human-carnivore interactions: adopting proactive strategies for complex problems. Pp. 179-195. *In: Carnivore Conservation*. Gittleman, Funk, Macdonald and Wayne (Eds.). Cambridge University Press.
- Bennett E.L and J.G. Robinson (2001). Hunting of Wildlife in Tropical Forests. Implications for Biodiversity and Forest Peoples. *Biodiversity Series* **76**: 42 Pp. The World Bank, Washington D.C.

- Birkeland K.H. and S. Myrberget (1980). The diet of the lynx *Lynx lynx* in Norway. *Fauna Norv. Ser.*, **4**: 24-28.
- Block W.M., M.L. Morrison, J. Verner and P.N. Manley (1994). Assessing wildlife-habitat-relationships models: a case study with California oak woodlands. *Wildlife Society Bulletin*, **22**: 549-561.
- Blockstein D.E. (1999). Integrated science for ecosystem management: an achievable imperative. *Conservation Biology*, **13**: 682-685.
- Bobek B., K. Perzanowski and W. Smientana. (1992). The influence of snow cover on wolf *Canis lupus* and red deer *Cervus elaphus* relationships in Bieszczady Mountains. IUGB Congress, Krakow, Poland, Swiat Press, Krakow-Warszawa.
- Boitani L. (2000). *Action Plan for the conservation of wolves (Canis lupus) in Europe*. Nature and Environment 113, Council of Europe, Strasbourg Cedex. Pp. 1-72.
- Boitani L., A. Falcucci, L. Maiorano and A. Montemaggiori (2003). *Italian Ecological Network. The role of protected areas in the conservation of vertebrates*. ISBN: 88-87736-03-0.
- Boitani L., F. Corsi, A. Falcucci, I. Marzetti, M. Masi, A. Montemaggiori, D. Ottaviani, G. Reggiani and C. Rondinini (2002). *Rete ecologica Nazionale*. Internal Technical Report for the Ministry of Environment.
- Breitenmoser U. and H. Haller (1993). Pattern of predation by reintroduced European lynx in Swiss Alps. *Journal of Wildlife Management*, **57**: 135-144.
- Breitenmoser U., C. Breitenmoser-Wursten, H. Okarma, T. Kaphegyi, U. Kaphygyi-Wallmann and U.M. Muller (2000). *Action Plan for the conservation of the Eurasian Lynx in Europe (Lynx-lynx)*. Nature and Environment 112, Council of Europe, Strasbourg Cedex. Pp. 1-72.
- Brown J.H., G.C. Stevens and D.M. Kaufman (1996). The Geographic Range: size, shape, boundaries, and internal structure. *Annual Review Ecol. Syst.*, **27**: 597-623.
- Buckland S.T. and D.A. Elston (1993). Empirical models for the spatial distribution of wildlife. *Journal of Applied Ecology*, **30**: 478-495.
- Bulte E. and G.C. van Kooten (2000). Economic science, endangered species, and biodiversity loss. *Conservation Biology*, **14**: 113-119.
- Burrough P.A. (1986). *Principles of Geographical Information Systems for Land Resources Assessment*. Clarendon Press, Oxford, UK.

- Burrough P.A. and R.A. McDonnell (1998). *Principles of Geographic Information Systems*. Oxford University Press.
- Burt W. (1943). Territoriality and home range concepts as applied to mammals. *Journal of Mammalogy*, **24**: 346-352.
- Campbell J.B. (1996). *Introduction to Remote Sensing*. Second Edition. The Guilford Press. London. Great Britain.
- Caughley G. and A. Gunn (1996). *Conservation Biology in Theory and Practice*. Blackwell Science, Cambridge.
- Ciucci P. and L. Boitani (1998). The wolf: elements of biology, management and research. *Italian Bulletin of the Wildlife Institute*, **23**: 1-112.
- Clark J.D., J.E. Dunn and K.G. Smith (1993). A multivariate model of female black bear habitat use for a geographic information system. *Journal of Wildlife Management*, **57**: 519-526.
- Clark T.W., A.P. Curlee and R.P. Reading (1996). Crafting effective solutions to the large carnivore conservation problem. *Conservation Biology*, **10**: 940-948.
- Clark T.W., D.J. Mattson, R.P. Reading and B.J. Miller (2001). Interdisciplinary problem solving in carnivore conservation: an introduction. Pp. 223-240. *In: Carnivore Conservation*. Gittleman, Funk, Macdonald and Wayne (Eds.). Cambridge University Press.
- CLCP (2001). *Carpathian Large Carnivore Project Annual Report*. S&G Print. Romania.
- CLCP (2002). *Carpathian Large Carnivore Project Annual Report*. S&G Print. Romania.
- Clevenger A.P., F.J. Purroy and M.R. Pelton (1992). Brown bear (*Ursus arctos* L.) habitat use in the Cantabrian Mountains, Spain. *Mammalia*, **56**: 122-127.
- Congalton R., R. Oderwald and R. Mead (1983). Assessing Landsat Classification Accuracy Using Discrete Multivariate Analysis Statistical Techniques, *Photogrammetric Engineering & Remote Sensing*, **49**: 1671-1678.
- Conover M.R. (1998). Perceptions of American agricultural producers about wildlife on their farms and ranches. *Wildlife Society Bulletin*, **26**: 597-604.
- Conover M.R. (2002). *Resolving human-wildlife conflicts: the science of wildlife damage management*. Lewis Publisher, CRC Press, Boca Raton, FL.

- Conway C.J. and T.E. Martin (1993). Habitat suitability for Williamson's sapsuckers in mixed-conifer forests. *Journal of Wildlife Management*, **57**: 322-328.
- Corsi F., E. Duprè and L. Boitani (1999). A large-scale model of wolf distribution in Italy for conservation planning. *Conservation Biology*, **13**: 150-159.
- Corsi F., J. De Leew and A.K. Skidmore (2000). Species distribution modelling with GIS. In: *Research Techniques in Animal Ecology: Controversies and Consequences*. L. Boitani and T.K. Fuller (Eds.) Columbia University Press, New York.
- Council of Europe (2000). *Action Plan for the preservation of pastoralism and the wolf in the Alpine chain*. T-PVS 21. Strasbourg, Cedex.
- Cox C.B. and P.D. Moore (1993). *Biogeography*. Blackwell Scientific Publications. Fifth Edition. Oxford, UK.
- Cox T.F. and M.A. Cox (1994). *Multidimensional scaling*. London. Chapman & Hall.
- Crişan, V. 1994. Jäger? Schlachter Ceauşescu (In German). Verlag Dieter Hoffmann, Mainz-Ebersheim.
- Curio E. (1996). Conservation needs ethology. *Trends in Ecology and Evolution TREE*, **11**: 260-263.
- Dahle B., O.J. Sorensen, E.H. Wedul, J.E. Swenson and F. Sandergrén (1998). The diet of brown bear *Ursus arctos* in central Scandinavia: effect of access to free-ranging domestic sheep *Ovis aries*. *Wildlife Biology*, **4**: 147-159.
- Dasman R.F. (1964). *Wildlife biology*. New York: Harper and Row.
- Davis F.W., D.M. Stoms, J.E. Estes, J. Scepán and J.M. Scott (1990). An information systems approach to the preservation of biological diversity. *International Journal of Geographical Information Systems*, **4**: 55-78.
- De Maesschalck R., D. Jouan-Rimbaud and D.L. Massart (2000). The Mahalanobis Distance. *Chemometrics and Intelligent Laboratory Systems*, **50**: 1-18.
- Donovan M.L., D.L. Rabe and C.E.j. Olson (1987). Use of geographic information systems to develop habitat suitability models. *Wildlife Society Bulletin*, **15**: 574-579.
- Dubayah R., E.F. Wood and D. Lavallée (1997). Multiscaling Analysis in Distributed Modeling and Remote Sensing: An Application Using Soil Moisture. Pp. 93-112. In: *Scale in Remote Sensing and GIS*. D.A. Quattrochi and M.F. Goodchild (Eds.). Lewis Publisher, USA.

- Duncan B.W., D.R. Breininger, P.A. Schmalzer and V.L. Larson (1995). Validating a Florida scrub jay habitat suitability model, using demography data on Kennedy space center. *Photogrammetric Engineering and Remote Sensing*, **61**: 1361-1370.
- Dymond C.C.; D.J. Mladenoff and V.C. Radeloff (2002). Phenological differences in Tasseled Cap indices improve deciduous forest classification. *Remote Sensing of Environment*, **80**: 460-472
- Edwards T.C.jr., E.T. Deshler, D. Foster and G.G. Moisen (1995). Adequacy of wildlife habitat relation models for estimating spatial distributions of terrestrial vertebrates. *Conservation Biology*, **10**: 263-270.
- EEA 1995. Corine land cover. Technical report, available at: [http://reports.eea.eu.int/COR0-part1/en/land\\_coverPart1.pdf](http://reports.eea.eu.int/COR0-part1/en/land_coverPart1.pdf). Published by the Commission of the European Communities OPOCE.
- Eidenshink J.C. and J.L. Faundeen (1998). 1-KM AVHRR Global land dataset: first stages in implementation. Available online at: <http://edcwww.cr.usgs.gov/landdaac/1KM/comp10d.html>. Last accessed: March 2002.
- Elton C.S. (1927). *Animal Ecology*. London: Sidgwick and Jackson.
- ESRI (1994). *ARC INFO Commands*. Environmental System Research Institute, Inc. Redlands, CA, USA.
- ESRI (2002). *What's new in Arc View 3.1, 3.2, 3.3*. ESRI White paper. <http://www.esri.com/library/whitepapers/pdfs/arcview313233.pdf>. Last accessed: November 2003.
- EU (2001). *Communication from the Commission to the Council and the European Parliament: Biodiversity Action Plans in the areas of Conservation of Natural Resources, Agriculture, Fisheries, and Development and Economic Cooperation--VOLUME I/IV*. EC Documents. 7611/01. Available at: <http://www.nbu.ac.uk/biota/BAP%20EDC.pdf>. Last accessed: January 2003.
- European Commission (1995). *Natura 2000: managing our heritage*. <http://europa.eu.int/comm/environment/nature/brochure-en.pdf>. Last accessed: January 2003.
- Ferguson S.H. and P.D. McLoughlin (2000). Effect of energy availability, seasonality, and geographic range on brown bear life history. *Ecography*, **23**: 193-200.
- Findo S. (in prep). Wolf movements and home range in the Slovak Carpathians.
- Fjeldsa J., D. Ehrlich, E. Lambin and E. Prins (1997). Are biodiversity 'hotspots'

- correlated with current ecoclimatic stability? A pilot study using the NOAA-AVHRR remote sensing data. *Biodiversity and Conservation*, **6**: 401-422.
- Fölvary G.Z. (1988). *Geology of the Carpathian Region*. World Scientific Pub.Co. Singapore.
- Fowler F.J.J. and T.W. Mangione (1990). *Standardized Survey Interviewing*. Sage Publications. New Dehli.
- Fuentes M. V., J.B. Malone and S. Mas-Coma (2001). Validation of a mapping and prediction model for human fasciolosis transmission in Andean very high altitude endemic areas using remote sensing data. *Acta Tropica*, **79**: 87-95.
- Fuller T.K. (1995). An international review of large carnivore conservation status. Pp. 410-412. *In: Integrating people and wildlife for a sustainable future*. A. Bissonette and P.R. Krausman (Eds.). The Wildlife Society, Bethesda, Maryland.
- Gaston K.J. (1991). How large is a species' geographic range? *Oikos*, **61**: 435-437.
- Gilpin M.E. (1987). Spatial structure and population vulnerability. *In: Viable Populations for Conservation*. M.E. Soulé (Ed.) Cambridge University Press.
- Gilpin M.E. and M.E. Soulé (1986). Minimum Viable Populations: processes of species extinction. *In: Conservation Biology the Science of Scarcity and Diversity*. M.E. Soulé (Ed.). Sinauer Associates, Sunderland, Mass.
- Ginsberg J.R. (2001). Setting priorities for carnivore conservation: what makes carnivores different? Pp. 498-523. *In: Carnivore Conservation*. Gittleman, Funk, Macdonald and Wayne (Eds.). Cambridge University Press.
- Gittleman J.L., S.M. Funk, D.W. Macdonald and R.K. Wayne (2001). Why 'carnivore conservation'? Pp. 2-7. *In: Carnivore Conservation*. Gittleman, Funk, Macdonald and Wayne (Eds.). Cambridge University Press.
- Glowacinski Z. and P. Profus (1997). Potential impact of wolves *Canis lupus* on prey populations in Eastern Poland. *Biological Conservation*, **80**: 99-106.
- Groch J., W. Kurek and J. Warszynska (2000). *Tourist regions in the Polish Carpathians*. Krakow:Universitas.
- Groot Bruinderink G., T. van der Sluis, D. Lammertsma, P. Opdam and R. Pouwels (2003). Designing a coherent Ecological Network for large mammals in Northwestern Europe. *Conservation Biology*, **17**: 549-557.

- Groves C., L. Valutis, D. Vosick, B. Neely, K. Wheaton, J. Touval and B. Runnels (2000). *Designing a Geography of Hope: a Practitioner's Handbook for Ecoregional Conservation Planning*. The Nature Conservancy.
- Grumbine R.E. (1994). What is ecosystem management? *Conservation Biology*, **8**: 27-38.
- Guisan A. and N.E. Zimmerman (2000). Predictive habitat distribution models in ecology. *Ecological Modelling*, **135**: 147-186.
- Gurnell J., M.J. Clark, P.W.W. Lurz, M.D.F. Shirley and S.P. Rushton (2002). Conserving red squirrels (*Sciurus vulgaris*): mapping and forecasting habitat suitability using a Geographic Information Systems Approach. *Biological Conservation*, **105**: 53-64.
- Heglund P. J. (2002). Foundations of species-environment relations. Pp. 35-42. In: *Predicting Species Occurrences: Issues of Accuracy and Scale*. Scott, Heglund, Morrison *et al.* (Eds.). Island Press. Washington D.C., USA.
- Heinen J.T. and J.G. Lyon (1989). The effects of changing weighting factors on wildlife habitat index values: a sensitivity analysis. *Photogrammetric Engineering and Remote Sensing*, **59**: 1531-1538.
- Hell P. and S. Findo (1999). Status and management of the brown bear in Slovakia. Pp. 96-110. In: *Bears. Status and Conservation Action Plan*. Servheen, C. Herrero, S. and B. Peyton (Eds.). IUCN/SSC Bear and Polar Bear Specialist Groups, IUCN, Gland, Switzerland and Cambridge.
- Hengeveld R., P.J. Edwards and S.J. Duffield (1995). Biodiversity from an ecological perspective. In: *Global Biodiversity Assessment*. V.H. Heywood (Ed.). Cambridge University Press, Cambridge, UK.
- Herr A.M. and L.P. Queen (1993). Crane habitat evaluation using GIS and Remote Sensing. *Photogrammetric Engineering and Remote Sensing*, **59**: 1531-1538.
- Heuvelink G.B.M. (1998). *Error Propagation in Environmental Modelling with GIS*. Taylor & Francis, London.
- Hill K.E. and M.W. Binford (2002). The role of category definition in habitat models: practical and logical limitations of using boolean, indexed, probabilistic, and fuzzy categories. Pp. 97-106. In: *Predicting Species Occurrences: Issues of Accuracy and Scale*. Scott, Heglund, Morrison *et al.* (Eds.). Island Press. Washington D.C., USA.
- Hirzel A. H., J. Hausser, D. Chessel and N. Perrin (2002). Ecological-niche factor analysis: How to compute habitat-suitability maps without absence data? *Ecology*, **83**: 2027-2036.

- Huber D. and H.U. Roth (1996). Denning of browns bears in Croatia. *Proceedings of the Ninth International Conference on Bear Research and Management*: 271-282.
- Hunchack M. (1999). Buryi vedmid'v Karpatakh. Lisovyi I myslyvs'kyi zhurnal 5: 25. (Brown bear in Carpathians. Forest and Hunting Journal. In Ukrainian).
- Hutchinson M.F. (1993). Development of a continent-wide DEM with applications to terrain and climate analysis. Pp. 392-399. *In: Environmental Modeling with GIS*. M.F. Goodchild *et al.* (Eds.). New York, Oxford University Press.
- IEA (1998). *Large Carnivores Conservation Areas in Europe, discussion paper for the Large Carnivore Initiative for Europe*. WWF International, Gland, Switzerland.
- IEA (1999). Ecological corridors and large carnivores species in West Europe. Council of Europe, STRA-REP (99) 14 rev.
- IUCN (1990). *The 1990 IUCN Red list of threatened animals*. IUCN, Cambridge, UK.
- IUCN (2002). The red list of Endangered Species. Available online at: <http://www.redlist.org>.. Last Accessed: October 2003.
- Jelinski D.E. and J. Wu (1996). The modifiable area unit problem and implications for landscape ecology. *Landscape Ecology*, **11**: 129-140.
- Jennings M.D., B. Csuti and M.J. Scott (1997). Wildlife habitat relationship models: distribution and abundance. *Conservation Biology*, **11**: 1270-1274.
- Jensen J.R. (2000). *Remote Sensing of the Environment. An Earth Resource Perspective*. Prentice-Hall, NJ.
- Johnson D.D.P., S.I. Hay and D.J. Rogers (1998). Contemporary environmental correlates of endemic bird areas derived from meteorological satellite sensors. *Proceedings of The Royal Society London*, **265**: 951-959.
- Johnson W.E., E. Eizirik and G.M. Lento (2001). The control, exploitation and conservation of carnivores. Pp. 196-220. *In: Carnivore Conservation*. Gittleman, Funk, Macdonald and Wayne (Eds.). Cambridge University Press.
- Johnston C.A. (1990). GIS: more than just a pretty face. *Landscape Ecology*, **4**: 3-4.
- Johnston C.A. (1998). *Geographical Information Systems in Ecology*. Blackwell Science, Oxford.

- Jongman R.H.G. (1995). Nature conservation planning in Europe: developing ecological network. *Landscape and Urban Planning*, **32**: 169-183.
- Jouan-Rimbaud D., D.L. Massart, C.A. Saby and C. Puel (1998). Determination of the representativity between two multidimensional data sets by a comparison of their structure. *Chemometrics and Intelligent Laboratory Systems*, **40**: 129-144.
- Justice C.O., J.R.G. Townshend, B.N. Holben and C.J. Tucker (1985). Analysis of the phenology of global vegetation using meteorological satellite data. *International Journal of Remote Sensing*, **6**: 1271-1318.
- Kanzaki N. and K. Perzanowski (1997). The potential role of wolf predation in regulating wild boar population in Bieszczady, Poland. *Wildlife Conservation Japan*, **2**: 205-212.
- Karl J.W., N.M. Wright, P.J. Heglund and J.M. Scott (1999). Obtaining environmental measures to facilitate vertebrate habitat modeling. *Wildlife Society Bulletin*, **27**: 357-365.
- Kellert S.R., M. Black, C.R. Rush and A.J. Bath (1996). Human culture and large carnivore conservation in North America. *Conservation Biology*, **10**: 977-990.
- Kettig R.L. and D.A. Landgrebe (1976). Classification of Multispectral image data by extraction and classification of homogeneous objects. *IEEE Transactions on Geoscience Electronics*, **GE-14**: 19-26.
- Kliskey A.D., E.C. Lofroth, W.A. Thompson, S. Brown and H. Schreier (1999). Simulating and evaluating alternative resource-use strategies using GIS-based habitat suitability indices. *Landscape and Urban Planning*, **45**: 163-175.
- Knick S.T. and D.L. Dyer (1999). Distribution of black-tailed jackrabbit habitat determined by GIS in Southwestern Idaho. *Journal of Wildlife Management*, **61**: 75-85.
- Knick S.T. and J.T. Rotenberry (1998). Limitations to mapping habitat use areas in changing landscapes using the Mahalanobis distance statistics. *Journal of Agricultural, Biological and Environmental Statistics*, **3**: 311-322.
- Kondracki J. (1978) *Karpaty*. Wydawnictwa Szlvolne: Pedagogiczne, Warszawa. (in Polish).
- Lavers C.J. and R.H. Haines-Young (1993). Equilibrium landscapes and their aftermath: spatial heterogeneity and the role of new technology. *In*:

- Landscape Ecology and GIS*. R. Haines-Young, D.R. Green and S. Cousins (Eds.). Taylor and Francis, London.
- Leica Geosystems (2003). *ERDAS Imagine Software*. Available at: <http://www.gis.leica-geosystems.com/Products/Imagine>. Last accessed: January 2004.
- Lek S. and J.F. Guégan (1999). Artificial neural networks as a tool in ecological modelling, an introduction. *Ecological Modelling*, **120**: 65-73.
- Levin S.A. (1992). The problem of pattern and scale in ecology. *Ecology*, **73**: 1943-1967.
- Levins R. (1969). Some demographic and genetic consequences of environmental heterogeneity for biological control. *Bull. Entom. Soc. Amer.* **15**: 237-240.
- Lillesand T.M. and R.W. Kiefer (2000). *Remote Sensing and Image Interpretation*. Fourth Ed. John Wiley and Sons. USA.
- Linnell J., M.E. Smith, J. Odden, P. Kaczensky and J.E. Swenson (1996). Carnivores and sheep farming in Norway. 4. *Strategies for the reduction of carnivore-livestock-conflicts: a review*. NINA Oppdragsmelding 443.
- Linnell J.D.C., J. Odden, M.E. Smith, R. Aanes and J.E. Swenson (1999). Large carnivores that kill livestock: do 'problem individuals' really exist? *Wildlife Society Bulletin*, **27**: 698-705.
- Linnell J.D.C., J.E. Swenson, R. Andersen and B. Barnes. (2000). How vulnerable are denning bears to disturbance? *Wildlife Society Bulletin*, **28**: 400-413.
- Litvaitis J.A., K. Titus and E.A. Anderson (1994). Measuring vertebrate use of terrestrial habitats and foods. Pp. 254-274. *In: Research and management techniques for wildlife and habitats*. T.A. Bookhout (Ed.). The Wildlife Society, Bethesda, Maryland.
- Loehle C. (1983). Evaluation of theories and calculation tools in ecology. *Ecological Modelling*, **19**: 239-247.
- Lopez B.H. (1978). *Of wolves and men*. Charles Scribner's Sons, New York.
- Lusk J.J., F.S. Guthery and S.J. DeMaso (2002). A neural network model for predicting northern bobwhite abundance in the rolling red plains of Oklahoma. Pp. 345-356. *In: Predicting Species Occurrences: Issues of Accuracy and Scale*. Scott, Heglund, Morrison *et al.* (Eds.). Island Press. Washington D.C., USA.

- Macdonald D.W. (2001). Postscript-carnivore conservation: science, compromise and tough choices. Pp. 524-538. *In: Carnivore Conservation*. Gittleman, Funk, Macdonald and Wayne (Eds.). Cambridge University Press.
- Manly B.F.J. (1994). *Multivariate Statistical Methods, A Primer*. Chapman & Hall, London.
- Margules C.R. and R.L. Pressey (2000). Systematic conservation planning. *Nature*, **405**: 243.
- Mather P. (1999). *Computer processing of Remotely-Sensed Images*. An introduction. Second edition. School of Geography, The University of Nottingham, UK.
- Maurer B. (2002). Predicting distribution and abundance thinking within and between scales. Pp. 125-132. *In: Predicting Species Occurrences: Issues of Accuracy and Scale*. Scott, Heglund, Morrison *et al.* (Eds.). Island Press. Washington D.C., USA.
- McLean I.F.G., A.D. Wright and G. Williams (1999). The role of legislation in conserving Europe's threatened species. *Conservation Biology*, **13**: 966-969.
- Mech L.D. and P.D. Karns (1977). Role of the wolf in a deer decline in the Superior National Forest. *U.S. Forest Serv. Res. Pap n. NC-148*.
- Mech D.L., S.H. Fritts, R. Andersen and B. Barnes (1988). Wolf distribution and road density in Minnesota. *Wildlife Society Bulletin*, **16**: 85-87.
- Mech L.D. (1974). *Canis lupus*. Mammalian Species, no 37, 6 pp.
- Meffe G.K. and C.R. Carroll (1997). *Principles of Conservation Biology*. Sinauer Associates Inc. Sunderland, Massachusetts. USA.
- Mertens A. (in prep.). Socio-economic analysis of livestock raising in Romania with regards to the economic damage caused by large carnivores. PhD Thesis, Center of Life Sciences, Technical University of Munich, Germany.
- Mertens A. and C. Promberger (2001). Economic aspects of large carnivores-livestock conflicts in Romania. *Ursus*, **12**: 173-180.
- Mitchell-Jones A.J., G. Amori, W. Bogdanowicz, B. Krystufek, P.J.H. Reijnders, F. Spitzenberger, M. Stubbe, J.B.M. Thissen, V. Vohralik and J. Zima (1999). *The Atlas of European Mammals*. Poyser Natural History. Academic Press. London, UK.
- Mladenoff D.J., T.A. Sickley, R.G. Haight and A.P. Wydeven (1995). A regional landscape analysis and prediction of favorable gray wolf habitat in the northern Great Lakes region. *Conservation Biology*, **9**: 279-294.

- Moraru T., V. Cucu and I. Velcea (1966). *The Geography of Romania*. Meridians Publication, Bucharest, Romania.
- Morrison M.L. and L.S. Hall (2002). Standard terminology: toward a common language to advance ecological understanding and applications. *In: Predicting Species Occurrences: Issues of Accuracy and Scale*. Scott, Heglund, Morrison *et al.* (Eds.). Island Press. Washington D.C., USA.
- Morrison M.L., B.G. Marcot and R.W. Mannan (1998). *Wildlife-Habitat Relationships: Concepts and Applications*. Second Ed. The University of Wisconsin Press. Madison, Wisconsin, USA.
- Myers N., R.A. Mittermeier, C.G. Mittermeier, G.A.B. de Fonseca and J. Kent (2000). Biodiversity hotspots for conservation priorities. *Nature*, **403**: 853-858.
- NERC (2002). Science Strategy. Available online at: <http://www.nerc.ac.uk/publications/strategicplan/stratplan02.pdf>. Last accessed: November 2003.
- Noss R.F. (1987). Corridors in real landscapes. A reply to Simberloff and Cox. *Conservation Biology*, **1**: 159-164.
- Nowak R.M. (1991). *Walker's mammals of the world*. Fifth edition-volume 2. The Johns Hopkins University Press, Baltimore and London.
- O'Connor R.J. (2002). The conceptual basis of species distribution modeling: time for a paradigm shift? Pp. 25-34. *In: Predicting Species Occurrences: Issues of Accuracy and Scale*. Scott, Heglund, Morrison *et al.* (Eds.). Island Press. Washington D.C., USA.
- Okarma H. (1984). The physical condition of red deer falling prey to the wolf and lynx harvested in the Carpathian Mountains. *Acta Theriologica*, **29**: 283-290.
- Okarma H. (1991). Marrow fat content, sex and age of red deer killed by wolves in winter in the Carpathian Mountains. *Holarctic Ecology*, **14**: 169-172.
- Okarma H. (1993). Status and management of the wolf in Poland. *Biological Conservation*, **66**: 153-158.
- Olson D.M. and E. Dinerstein (1997). The Global 200 Ecoregions. WWF International. Washington D.C. USA.
- O'Neil L.J., T.H. Roberts, J.S. Wakeley and J.W. Teaford (1988). A procedure to modify habitat suitability index models. *Wildlife Society Bulletin*, **16**: 33-36.
- Pedersen V.A., J.D.C. Linnell, R. Andersen, H. Andrén, M. Linden and P. Segerstrom (1999). Winter lynx *Lynx lynx* predation on semi-domestic

- reindeer *Rangifer tarandus* in Northern Sweden. *Wildlife Biology*, **5**: 203-211.
- Pereira J.M. and R.M. Itami (1991). GIS-based habitat modeling using logistic multiple regression: a study of the Mt. Graham red squirrel. *Photogrammetric Engineering and Remote Sensing*, **57**: 1475-1486.
- Pereira J.M.C. and L. Duckstein (1993). A multiple criteria decision-making approach to GIS-based land suitability evaluation. *International Journal of Geographical Information Systems*, **7**: 407-424.
- Perez-Trejo F. (1993). Landscape response units: process-based self-organising systems. In: *Landscape Ecology and GIS*. R. Haines-Young, D.R. Green and S. Cousins (Eds.). Taylor and Francis, London.
- Perrings C. (1995). Economic values of biodiversity. In: *Global Biodiversity Assessment*. V.H. Heywood (Ed.). Cambridge University Press, Cambridge, UK.
- Petch J.R. and J. Kolečka (1993). The tradition of landscape ecology in Czechoslovakia. In: *Landscape Ecology and GIS*. R. Haines-Young, D.R. Green and S. Cousins (Eds.). Taylor and Francis, London.
- Pontius R.G.J. (2000). Quantification error versus location error in comparison of categorical maps. *Photogrammetric Engineering and Remote Sensing*, **66**: 1011-1016.
- Pontius R.G.J. (2002). Statistical methods to partition effects of quantity and location during comparison of categorical maps at multiple resolutions. *Photogrammetric Engineering and Remote Sensing*, **68**: 1041-1049.
- Powell R.A. (2000). Animal home ranges and territories and home range estimators. Pp. 65-110. In: *Research techniques in animal ecology*. Boitani L. and T.K. Fuller (Eds.). Columbia University Press, New York.
- Primack R.B. (1998). *Essentials of Conservation Biology*. 2<sup>nd</sup> Edition Sinauer Associates, Sunderland, MA.
- Promberger C. and W. Schröder (1992). *Wolves in Europe: status and perspectives*. Munich Wildlife Society, Ettal, Germany.
- Pulliam H.R. 1988. Sources, sinks, and population regulation. *American Naturalist*, **132**:653-661.
- Purvis A., G.M. Mace and J.L. Gittleman (2001). Past and future extinctions: a phylogenetic perspective. Pp. 9-34. In: *Carnivore Conservation*. Gittleman, Funk, Macdonald and Wayne (Eds.). Cambridge University Press.
- Putman R.J. (1994). *Community Ecology*. Chapman and Hall, London, UK.

- Rasker R. and A. Hackman (1996). Economic development and the conservation of large carnivores. *Conservation Biology*, **10**: 991-1002.
- Revilla E., F. Palomares and M. Delibes (2001). Edge-core effects and the effectiveness of traditional reserves in conservation: Eurasian badgers in Doñana National Park. *Conservation Biology*, **15**: 148-158.
- Rexstad E.A., D.D. Miller, C.H. Flather, E.M. Anderson, J.W. Hupp and D.R. Anderson (1988). Questionable multivariate statistical inference in wildlife habitat and community studies. *Journal of Wildlife Management*, **52**: 794-798.
- Rotenberry J.T., S.T. Knick and J.E. Dunn (2002). A minimalist approach to mapping species habitat: Pearson's planes of closest fit. Pp. 281-290. *In: Predicting Species Occurrences: Issues of Accuracy and Scale*. Scott, Heglund, Morrison *et al.* (Eds.). Island Press. Washington D.C., USA.
- Salvatori V. (2002). *The development of an Ecological Network in the Carpathian Ecoregion: identification of special areas for conservation of large carnivores*. Report for the Council of Europe. Available online at: [http://www.coe.int/t/e/Cultural\\_Co-operation/Environment/Nature\\_and\\_biological\\_diversity/Nature\\_protection/sc22\\_inf27e.pdf](http://www.coe.int/t/e/Cultural_Co-operation/Environment/Nature_and_biological_diversity/Nature_protection/sc22_inf27e.pdf). Last accessed: March 2004.
- Salvatori V. and A. Mertens. 2002. Mapping probability of carnivore-livestock conflicts in the Romanian Carpathian Mountains. Proceedings of the International Symposium "People and Wildlife: Conflict or Co-Existence?", London.
- Salvatori V., H. Okarma, O. Ionescu, Y. Dovhanych, S. Findo and L. Boitani (2002). Hunting legislation in the Carpathian Mountains: implications for the conservation and management of large carnivores. *Wildlife Biology*, **8**: 3-10.
- Samson F.B. and F.L. Knopf (1993). Managing biological diversity. *Wildlife Society Bulletin*, **21**: 509-514.
- Schadt S., E. Revilla, T. Wiegand, F. Knauer, P. Kaczensky, U. Breitenmoser, L. Bufka, J. Cervený, P. Koubek, T. Huber, C. Stanisa, and L. Trepl (2002). Assessing the suitability of Central European landscapes for the reintroduction of Eurasian lynx. *Journal of Applied Ecology*, **39**: 1-15.
- Schamberger M.L. and J. O'Neil (1986). Concepts and constraints of habitat-model testing. Pp. 5-10. *In Wildlife 2000: Modeling habitat relationships*

- of terrestrial vertebrates. J. Verner, M.L. Morrison and C.J. Ralph (Eds.). Madison: University of Wisconsin Press.
- Schooley R.L., C.R. McLaughlin, G.J. Matula and W.B. Krohn (1994). Denning chronology of female black bears: effects of food, weather, and reproduction. *Journal of Mammalogy*, **74**: 466-477.
- Schroeder R.L. and L.D. Vangilder (1997). Tests of wildlife habitat models to evaluate oak-mast production. *Wildlife Society Bulletin*, **25**: 639-646.
- Scott J.M., F. Davis, B. Csuti, R. Noss, B. Butterfield, C. Groves, H. Anderson, S. Caicco, F. D'Erchia, T.C. Edwards jr., J. Ulliman and R.G. Wright (1993). Gap Analysis: a geographical approach to protection of biological diversity. *Wildlife Monographs*, **123**: 1-41.
- Scott J.M., P.J. Heglund, M.L. Morrison, J.B. Haufler, M.G. Raphael, W.A. Wall and F.B. Santon (2002). *Introduction. In: Predicting Species Occurrences: Issues of Accuracy and Scale*. Scott, Heglund, Morrison et al. (Eds.). Island Press. Washington D.C., USA.
- Shaffer M.L. (1992). *Keeping grizzly bear in the American West: a strategy for real recovery*. The Wilderness Society, Washington D.C.
- Sillero-Zubiri C. and M.K. Laurenson (2001). Interactions between carnivores and local communities: conflict or co-existence? Pp. 282-312. *In: Carnivore Conservation*. Gittleman, Funk, Macdonald and Wayne (Eds.). Cambridge University Press.
- Simberloff D. (1998). Flagships, umbrellas, and keystone: is single species management passé in the landscape era. *Biological Conservation*, **83**: 247-257.
- Smietana W. and A. Klimek (1993). Diet of wolves in the Bieszczady Mountains, Poland. *Acta Theriologica*, **38**: 245-251.
- Smietana W. and J. Wajda (1997). Wolf number changes in Bieszczady National Park, Poland. *Acta Theriologica*, **42**: 241-252.
- Smith M.E., J.D.C. Linnell, J. Odden and J.E. Swenson (2000). Review of methods to reduce livestock depredation: I. Guardian Animals. *Acta Agric. Scand. Sect. A, Animal Sci.*, **50**: 279-290.
- Smith M.E., J.D.C. Linnell, J. Odden and J.E. Swenson (2000). Review of methods to reduce livestock depredation: II. Aversive conditioning, deterrents and repellents. *Acta Agric. Scand. Sect. A, Animal Sci.*, **50**: 304-315.
- Sokal R.R. and F.J. Rohlf (1995). *Biometry*. 3<sup>rd</sup> edition. W.H. Freeman and Company, New York.

- Soran V., J. Biro, O. Moldovan and A. Ardelean (2000). Conservation of Biodiversity in Romania. *Biodiversity and Conservation*, **9**: 1187-1198.
- Soulé M.E. (Ed.) (1987). *Viable Populations or Conservation*. Cambridge University Press, Cambridge, UK.
- Soulé M.E. and M.A. Sanjayan (1998). Conservation targets: do they help? *Science*, **279**: 2060-2061.
- Soulé M.E. and M.E. Gilpin (1991). The theory of wildlife corridor capability. Pp. 3-8. *In: The Role of Corridors*. Saunders and Hobbs (Eds.). Surrey Beatty and Sons Pty Ltd.
- Spellerberg I.F. (1996). Changes in biological diversity. *In: Conservation biology*. I.F. Spellerberg (Ed.). Longman Group Ltd.
- Stahl P., J.M. Vandell, S. Ruelle, L. Coat, Y. Coat and L. Balestra (2002). Factors affecting lynx predation on sheep in the French Jura. *Journal of Applied Ecology*, **39**: 204-216.
- Star J. and J. Estes (1990). *Geographic Information Systems: An Introduction*. Prentice Hall, New Jersey.
- Stauffer D. (2002). Linking populations and habitats: where have we been? Where are we going? *In: Predicting Species Occurrences: Issues of Accuracy and Scale*. Scott, Heglund, Morrison *et al.* (Eds.). Island Press. Washington D.C., USA.
- Støbet-Lande U., J.D.C Linnell, I. Herfindal, V. Salvatori, H. Brøseth, R. Andersen, J. Odden, H. Andrén, J. Karlsson, T. Willebrand, J. Persson, A. Landa, R. May, B. Dahle and J. Swenson (2003). *Report for the large predator policy statement. Potential habitat for large carnivores in Scandinavia: a GIS analysis at the ecoregion level*. NINA Fagrapport **64**: 31 pp.
- Stoms D.M. and J.E. Estes (1993). A remote sensing research agenda for mapping and monitoring biodiversity. *International Journal of Remote Sensing*, **14**: 1839-1860.
- Stoms D.M., F.W. Davis and C.B. Cogan (1992). Sensitivity of wildlife habitat models to uncertainties in GIS data. *Photogrammetric Engineering and Remote Sensing*, **58**: 843-850.
- Stow D.A. (1993). The role of geographic information systems for landscape ecological studies. *In: Landscape Ecology and GIS*. R. Haines-Young, D.R. Green and S. Cousins (Eds.). Taylor and Francis, London.
- Sutherland S.R.W.J. (1998). The importance of behavioural studies in conservation biology. *Animal Behaviour*, **56**: 801-809.

- Swenson J.E., N. Gerstl, B. Dahle and A. Zedrosser (2000). *Action Plan for the conservation of the brown bear (Ursus arctos) in Europe*. Nature and Environment 114, Council of Europe, Strasbourg Cedex.
- Tamis W.L.M. and M.V.T. Zelfde (1998). An expert habitat suitability model for the disaggregation of bird survey data Bird counts in the Netherlands downscaled from atlas block to kilometre cell. *Landscape and Urban Planning*, **40**: 269-282.
- Thomasma L.E., T.D. Drummer and R.O. Peterson (1991). Testing the habitat suitability index model for the fisher. *Wildlife Society Bulletin*, **19**: 291-297.
- Tobler W.R. (1989). Frame independent spatial analyses. *In: Accuracy of Spatial Databases*. M.F. Goodchild and S. Gopal (Eds.). Taylor and Francis, London.
- Trani M.K. (2002). The influence of spatial scale on landscape pattern description and wildlife habitat assessment. Pp. 141-156. *In: Predicting Species Occurrences: Issues of Accuracy and Scale*. Scott, Heglund, Morrison et al. (Eds.). Island Press. Washington D.C., USA.
- Tucker C. (1978). A comparison of satellite sensor bands for vegetation monitoring. *Photogrammetric Engineering and Remote Sensing*, **44**: 1361-1380.
- Tufto J., B.-E. Saether, S.Engen, J.E. Swenson and F. Sandergren (1999). Harvesting strategies for conserving minimum viable populations based on World Conservation Union criteria: brown bears in Norway. *Proc. R. Soc. Lond. B*, **266**: 961-967.
- U.S. Fish and Wildlife Service (1981). Standards for the development of habitat suitability index models. 103 *ESM. U.S: Fish and Wildl. Serv.*, Div. Ecol. Serv., Washington, D.C.
- UNEP (2003). *The Carpathian Convention*. Draft Framework convention on the protection and sustainable development of the Carpathians. Available online at: <http://www.grid.unep.ch/proser/maps/europe/carpathians.php>. Last accessed: November 2003.
- USGS (1998). *GTOPO30 Documentation*. Available online at: <http://edcdaac.usgs.gov/gtopo30/README.html>. Last accessed: January 2003.
- Veldkamp J.G., C. Heunks, V.F. van Katwijk, M. Barkhof, C.A. Mùcher and B.J.E. ten Brink (1998). *Towards an improved methodology for Pan-European land cover classification. Applicability of NOAA-AVHRR and ancillary*

- data for land cover based environmental monitoring on a European scale*. Final Report part 2. BCRS publication 98-06, Delft, the Netherlands, pp. 90.
- Veregin H. (1998). Data quality measurement and assessment, *NCGIA Core Curriculum in GIScience*. Available online at: <http://www.ncgia.ucsb.edu/giscc/units/u100/u100.html>, posted March 23, 1998. Last accessed: March 2003.
- Voloscuk I. (1999). The National Parks and Biosphere Reserves in Carpathians – The Last Nature Paradises. ACANAP Tatranska Lomnica, Slovak Republic.
- Vosksar, J. (1993). The ecology of the wolf (*Canis lupus*) and its share on the formalization and stability of the Carpathian ecosystems in Slovakia. - *Ochrana prirody*, **12**: 241-276. (In Slovak).
- Walker P.A. (1990). Modelling wildlife distributions using a geographic information system: kangaroos in relation to climate. *Journal of Biogeography*, **17**: 279-289.
- Watts D. (1984). The spatial dimension in Biogeography. *In: Themes in Biogeography*. J.A. Taylor (Ed.). Croom Helm Ltd, Beckenhalm, Kent.
- White L.Jr. (1973). The historical roots of our environmental crisis. Pp. 18-30. *In: Western man and environmental ethics*. I. Barbour (Ed.). Addison-Wesley Publishing, Reading, Massachusetts.
- Wiens J.A. (1989). Spatial scaling in ecology. *Functional Ecology*, **3**:385-397.
- Williams G.L. (1988). An assessment of HEP (habitat evaluation procedures) applications to bureau of reclamation projects. *Wildlife Society Bulletin*, **16**: 437-447.
- Wilson E.O. (1992). *The Diversity of Life*. The Belknap Press of Harvard University Press, Cambridge, MA.
- Wilson E.O. (2000). On the future of conservation biology. *Conservation Biology*, **14**: 1-3.
- Witkowski Z. (1999). The Carpathian Mountain Range as an ecological system within the pan-European Ecological Network. *In: The green backbone of central and eastern Europe*. P. Nowacki, ECNC, The Netherlands.
- Woodroffe R. (2001). Strategies for carnivore conservation: lessons from contemporary extinctions. Pp. 62-92. *In: Carnivore Conservation*. Gittleman, Funk, Macdonald and Wayne (Eds.). Cambridge University Press.
- World Wildlife Fund for Nature Conservation (WWF) (1989). *The importance of*

*Biological Diversity*. WWF, Gland, Switzerland.

WWF (2000). The Carpathian Ecoregion Initiative. Available online at:

<http://www.carpathians.org/>. Last Accessed: March 2004.

Zarzycki, K. (1964). Biological and ecological studies in Carpathian Beech wood.

*Bulletin de l'Academie Polonaise de Sciences*, **12**: 15-21.

Zonneveld I.S. (1979). *Land Evaluation and Science*. International Institute for Geo-Information Science and Earth Observation (ITC), Enschede, The Netherlands.