

#### References of the Biomonitoring project:

- ČÍŽKOVÁ, P., SVOBODA, M., KŘENOVÁ, Z., 2011: Natural regeneration of acidophilous spruce mountain forests in non-intervention management areas of the Šumava National Park – the first results of the Biomonitoring project. *Silva Gabreta*, 17: 19–35.
- SVOBODA M. & POUSKA V., 2008: Structure of a Central-European mountain spruce old-growth forest with respect to historical development. *Forest Ecology and Management*, 255: 2177–2188.
- SVOBODA M., FRAVER S., JANDA P., BAČE R. & ZENÁHLÍKOVÁ J., 2010: Natural development and regeneration of a Central European montane spruce forest. *Forest Ecology and Management*, 260: 707–714.
- ZEPPENFELD T., SVOBODA M. DEROSE R.J., HEURICH M., MÜLLER J., ČÍŽKOVÁ P., STARÝ M., BAČE R. & DONATO D.C., 2015: Response of mountain *Picea abies* forests to stand-replacing bark beetle outbreaks: neighbourhood effects lead to self-replacement. *Journal of Applied Ecology*, 52(5): 1402–1411.  
<http://dx.doi.org/10.1111/1365-2664.12504>
- ZENÁHLÍKOVÁ J., ČERVENKA J., ČÍŽKOVÁ P., BEČKA P. STARÝ M., MAREK P., KŘENOVÁ Z. & SVOBODA M., 2015: The Biomonitoring project – monitoring of forest ecosystems in non-intervention areas of the Šumava National Park. *Silva Gabreta* 21: 95–104.

#### References of BIOKLIM project:

- APARICIO A., BERENS D.G., MÜLLER J. & FARWIG N., 2013: Resources determine frugivore assemblages and fruit removal along an elevational gradient. *Acta Oecologica*, 52: 45–49.
- BÄSSLER C. & LEIBL F., 2012: Deutliche Hinweise für den Klimawandel im Nationalpark Bayerischer Wald. *AFZ - Der Wald*, 14: 31-33.
- BÄSSLER C. & MÜLLER J., 2010: Importance of natural disturbance for recovery of the rare polypore *Antrodiella citrinella* Niemela & Ryvarden. *Fungal Biology*, 114: 129-133.
- BÄSSLER C., (2014) Prozessschutz und Biodiversität. *Naturschutz und Biologische Vielfalt* 136, 177-188.
- BÄSSLER C., 2009: Das BIOKLIM – Projekt Biodiversitäts- und Klimawandelforschung im Nationalpark Bayerischer Wald. *Naturschutz und Biologische Vielfalt* 72, 25-35.
- BÄSSLER C., FÖRSTER B., MONING C. & MÜLLER J., 2008: The BIOKLIM-Project: Biodiversity Research between Climate Change and Wilding in a temperate montane forest - The conceptual framework. *Forest Ecology, Landscape Research and Nature Conservation*, 7: 21-33.
- BÄSSLER C., HEILMANN-CLAUSEN J., BRANDL R. & HALBWACHS H., 2014: Ectomycorrhizal fungi have larger fruit bodies than saprotrophic fungi. *Fungal Ecology*, DOI 10.1016/j.funeco.2014.06.005.
- BÄSSLER C., HOLZER H. & HAHN C., 2011a: Zwischenbilanz der Philosophie "Natur Natur sein lassen" am Beispiel der holzzersetzenden Pilze. *Allgemeine Forstzeitschrift*, 6: 30-33.
- BÄSSLER C., HOTHORN T., BRANDL B. & MÜLLER J., 2013: Insects overshoot the expected upslope shift caused by climate warming. *PLoS ONE*, 8: e65842.

- BÄSSLER C., MÜLLER J. & DZIOCK F., 2010a: Detection of Climate-Sensitive Zones and Identification of Climate Change Indicators: A Case Study from the Bavarian Forest National Park. *Folia Geobotanica*, 45: 163-182.
- BÄSSLER C., MÜLLER J., CADOTTE M.W., HEIBL C., BRADTKA J.H., THORN S. & HALBWACHS H., 2015: Functional response of lignicolous fungal guilds to bark beetle deforestation. *Ecological Indicators*, DOI:10.1016/j.ecolind.2015.07.008.
- BÄSSLER C., MÜLLER J., DZIOCK F. & BRANDL R., 2010b: Effects of resource availability and climate on the diversity of wood-decaying fungi. *Journal of Ecology*, 98: 822-832.
- BÄSSLER C., MÜLLER J., HOTHORN T., KNEIB T., BADECK F. & DZIOCK F., 2009: Estimation of the extinction risk for high montane species as a consequence of global warming and assessment of their suitability as cross-taxon indicators. *Ecological Indicators*, 10: 341-352.
- BÄSSLER C., MÜLLER J., SVOBODA M., LEPSOVA A., HAHN C., HOLZER H. & POUSKA V., 2012: Diversity of wood-decaying fungi under different disturbance regimes-a case study from spruce mountain forests. *Biodiversity and Conservation*, 21: 33-49.
- BÄSSLER C., STADLER J., MÜLLER J., FÖRSTER B., GÖTTLIN A. & BRANDL R., 2011b: LiDAR as a rapid tool to predict forest habitat types in Natura 2000 networks. *Biodiversity and Conservation*, 20: 465-481.
- BEUDERT B., BÄSSLER C., THORN S., NOSS R., SCHRÖDER B., DIEFFENBACH-FRIES H., FOULLOIS N. & MÜLLER J., 2015: Bark beetles increase biodiversity while maintaining drinking water quality. *Conservation Letters*, DOI: 10.1111/conl.12153.
- BUSSLER H. & MÜLLER J., 2009: Vacuum cleaning for conservationists: a new method for inventory of *Osmoderma eremita* (Scop., 1763) (Coleoptera: Scarabaeidae) and other inhabitants of hollow trees in Natura 2000 areas. *Journal of Insect Conservation*, 13: 355-359.
- BUSSLER H., BOUGET C., BRUSTEL H., BRÄNDLE M., RIEDINGER V., BRANDL R. & MÜLLER J., 2011: Abundance and pest classification of scolytid species (Coleoptera: Curculionidae, Scolytinae) follow different patterns. *Forest Ecology and Management*, 262: 1887-1894.
- FARWIG N., BRANDL R., SIEMANN S., WIENER F. & MÜLLER J., 2014: Decomposition rate of carrion is dependent on assemblage not abundance of insect carrion fauna. *Oecologia*, 175: 291-300.
- FISCHER A., BLASCHKE M. & BÄSSLER C., 2011: Altitudinal gradients in biodiversity research: the state of the art and future perspectives under climate change aspects. *Waldökologie, Landschaftsforschung und Naturschutz*, 11: 35-47.
- HALBWACHS H. & BÄSSLER C., 2013: Umweltfaktoren und die Diversität von Großpilzen: eine Analyse mit Ellenbergschen Zeigerwerten. *Zeitschrift für Mykologie*, 79: 583-594.
- LACHAT T., WERMELINGER B., MARTIN M., GOSSNER M.M., BUSSLER H., ISACSSON G. & MÜLLER J., 2012: Saproxylic beetles as indicator species for dead-wood amount and temperature in European beech forests. *Ecological Indicators*, 23: 323-331.
- LEHNERT L.W., BÄSSLER C., BRANDL R., BURTON P.J. & MÜLLER J., 2013: Conservation value of forests attacked by bark beetles: Highest number of indicator species is found in early successional stages. *Journal for Nature Conservation*, 21: 97-104.
- LEUTNER B.F., REINEKING B., MÜLLER J., BACHMANN M., BEIERKUHNLEIN C., DECH S. & WEGMANN M., 2012: Modelling forest  $\alpha$ -diversity and floristic composition - On the added value of LiDAR plus hyperspectral remote sensing. *Remote Sensing*, 4: 2818-2845.

- MARAUN M., AUGUSTIN D., MÜLLER J., BÄSSLER C. & SCHEU S., 2014: Changes in the community composition and trophic structure of microarthropods in sporocarps of the wood decaying fungus *Fomitopsis pinicola* along an altitudinal gradient. *Applied Soil Ecology*, 84: 16-23.
- MEHR M., BRANDL R., KNEIB T. & MÜLLER J., 2012: The effect of bark beetle infestation and salvage logging on bat activity in a national park. *Biodiversity and Conservation*, 21: 2775-2786.
- MONING C. & MÜLLER J., 2008: Environmental key factors and their thresholds for the avifauna of temperate montane forests. *Forest Ecology and Management*, 256: 1198–1208.
- MONING C. & MÜLLER J., 2009: Critical forest age thresholds for diversity of lichens, molluscs and birds in temperate beech (*Fagus sylvatica* L.) plant communities. *Ecological Indicators*, 9: 922–932.
- MONING C., HELD M., MOSHAMMER R. & MÜLLER J., 2010: Ökologische Schwellenwerte in Bergmischwäldern als Basis für forstliche Naturschutzkonzepte. *Naturschutz und Landschaftsplanung*, 42.
- MONING C., WERTH S., DZIOCK F., BÄSSLER C., BRADTKA J., HOTHORN T. & MÜLLER J., 2009: Lichen diversity in temperate montane forests is influenced by forest structure more than climate. *Forest Ecology and Management*, 258: 745-751.
- MÜLLER J. & BRANDL R., 2009: Assessing biodiversity by remote sensing and ground survey in mountainous terrain: the potential of LiDAR to predict forest beetle assemblages. *Journal of Applied Ecology*, 46: 897-905.
- MÜLLER J. & GOSSNER M., 2010: Three-dimensional partitioning of diversity reveals baseline information for state-wide strategies for the conservation of saproxylic beetles. *Biological Conservation*, 143: 625-633.
- MÜLLER J. & SIMONIS R., 2010b: 40 Jahre Waldnationalpark aus der Vogelperspektive. *Allgemeine Forstzeitschrift -AFZ Der Wald*, 15: 43-45.
- MÜLLER J., BAE S., RÖDER J., CHAO A. & DIDHAM R.K., 2014a: Airborne LiDAR reveals context dependence in the effects of canopy architecture on arthropod diversity. *Forest Ecology and Management*, 312: 129-137.
- MÜLLER J., BÄSSLER C. & JEHL H., 2011: Biologische Vielfalt im Nationalpark Bayerischer Wald. Sonderband der Wissenschaftliche Schriftenreihe der Nationalparkverwaltung Bayerischer Wald, Grafenau, 226 S.
- MÜLLER J., BÄSSLER C., ESSBAUER S., SCHEX S., MÜLLER D.W.H., OPGENOORTH L. & BRANDL R., 2014: Relative heart size in two rodent species increases with elevation: reviving Hesse's rule. *Journal of Biogeography*, 41: 2211-2220.
- MÜLLER J., BÄSSLER C., STRAETZ C., KLÖCKING B. & BRANDL R., 2009a: Molluscs and climate warming in forests of a low mountain range National Park. *Malacologia*, 51: 89-109.
- MÜLLER J., BRUSTEL H., BRIN A., BUSSLER H., BOUGET C., OBERMAIER E., HEIDINGER I.M.M., LACHAT T., FÖRSTER B., HORAK J., PROCHÁZKA J., KÖHLER F., LARRIEU L., BENSE U., ISACSSON G., ZAPPONI L. & GOSSNER M.M.. 2015 Increasing temperature may compensate for lower amounts of dead wood in driving richness of saproxylic beetles. *Ecography*, 38: 499-509.
- MÜLLER J., HOTHORN T. & PRETZSCH H., 2007: Long-term effects of logging intensity on structures, birds, saproxylic beetles and wood-inhabiting fungi in stands of European beech *Fagus sylvatica* L. *Forest Ecology and Management*, 242: 297-305.

MÜLLER J., MEHR M., BÄSSLER C., FENTON M.B., HOTHORN T., PRETZSCH H., KLEMMT H.-J. & BRANDL R., 2012: Aggregative response in bats: prey abundance versus habitat. *Oecologia*, 169: 673-684.

MÜLLER J., MONING C., BÄSSLER C., HEURICH M. & BRANDL R., 2009b: Using airborne laser scanning to model potential abundance and assemblages of forest passerines. *Basic and Applied Ecology*, 10: 671-681.

MÜLLER J., NOSS R., BUSSLER H. & BRANDL R., 2010a: Learning from a "benign neglect strategy" in a national park: Response of saproxylic beetles to dead wood accumulation. *Biological Conservation*, 143: 2559-2569.

MÜLLER J., STADLER J. & BRANDL R., 2010b: Composition versus physiognomy of vegetation as predictors of bird assemblages: the role of lidar. *Remote Sensing of Environment*, 114: 490-495.

MÜLLER J., STADLER J., JARZABEK-MÜLLER A., HACKER H., TER BRAAK C. & BRANDL R., 2011: The predictability of phytophagous insect communities: host specialists are also habitat specialists. *PLoS ONE*, 6: e25986.

MÜLLER J., STRÄTZ C. & HOTHORN T., 2005: Habitat factors for land snails in acid beech forests with a special focus on coarse woody debris. *European Journal of Forest Research*, 124: 233-242.

OBERTPRIELER C., HEINE G. & BÄSSLER C., 2015: Can divergent selection save the rare *Senecio hercynicus* from genetic swamping by its spreading congener *S. ovatus* (Compositae, Senecioneae)? *Flora*, 210: 47-59.

RAABE S., MÜLLER J., MANTHEY M., DUERHAMMER O., TEUBER U., GÖTTLEIN A., FÖRSTER B., BRANDL R. & BÄSSLER C., 2010: Drivers of bryophyte diversity allow implications for forest management with a focus on climate change. *Forest Ecology and Management*, 260: 1956-1964.

RIEGER A., SCHMIDBERGER G., STELZ V., MÜLLER J. & STRÄTZ C., 2010: Ökologische Analyse der Molluskenfauna im Nationalpark Bayerischer Wald. *Waldökologie, Landschaftsforschung und Naturschutz*, 9: 65-78.

RÖDER J., BÄSSLER C., BRANDL R., DVOŘAK L., FLOREN A., GRUPPE A., GOSSNER M., JARZABEK-MÜLLER A., VOJTECH O., WAGNER C. & MÜLLER J., 2010: Arthropod species richness in the Norway Spruce canopy along an elevation gradient. *Forest Ecology and Management*, 259: 1513-1521.

SCHEX S., MÜLLER J. & ESSBAUER S., 2011: Rickettsia spp. in wild small mammals in Lower Bavaria, South-Eastern Germany. *Vector-Borne and Zoonotic Diseases*, 11: 493-502.

SEIBOLD S., BUCHNER J., BÄSSLER C. & MÜLLER J., 2013a: Ponds in acidic mountains are more important for bats in providing drinking water than insect prey. *Journal of Zoology*, 290: 302-308.

SEIBOLD S., HEMPEL A., PIEHL S., BÄSSLER C., BRANDL R., RÖSNER S. & MÜLLER J., 2013b: Forest vegetation structure has more influence on predation risk of ground nests than human activities. *Basic and Applied Ecology*, 14: 687-693.

SILAGHI C., BÄSSLER C., BAUM U., BEIERKUHNLEIN C., BLEICHERT P., BOGDAN C., BOZEM P., BRENAUER J., FINGERLE V., FISCHER D., HÄBERLEIN S., HAUTMANN W., KLIER C., KLINC C., LIEBL B., LÜPKE M., MÜLLER J., OSTERBERG A., PFISTER K., POLJAK S., PRAßLER T., RINDER, H., SCHEX S., SING, A., TEUßER L., THOMA, B., THOMAS S., WILDNER M. & ESSBAUER S., 2012: Durch Vektoren übertragene Zoonoseerreger in Zeiten des Klimawandels. *Deutsches Tierärzteblatt*, 3: 350-359.

- THOMA B., MÜLLER J., BÄSSLER C., GEORGI E., OSTERBERG A., SCHEX S., BOTTOMLEY C. & ESSBAUER S., 2014: Predicting the risk for hantaviruses in rodents in a montane forest environment. *Viruses*, 6: 3944-3967.
- THOMA B.R., MÜLLER J., BÄSSLER C., BOTTOMLEY C., SCHEX S., OSTERBERG A. & ESSBAUER S., 2012: Biometric, climatic, and environmental risk factors driving Puumala hantavirus epidemics in Southeast Germany. *International Journal of Medical Microbiology*, 302: 88-89.
- THORN S., HACKER H.H., SEIBOLD S., JEHL H., BÄSSLER C. & MÜLLER J., 2015: Guild-specific responses of forest Lepidoptera highlight conservation oriented forest management - implications from conifer-dominated forests. *Forest Ecology and Management*, 337: 41-47.
- THORN, S., BÄSSLER, C., GOTTSCHALK, T., HOTHORN, T., BUSSLER, H., RAFFA, K. & MÜLLER, J. (2014) New insights into the consequences of post-windthrow salvage logging revealed by functional structure of saproxyllic beetles assemblages. *PLOS ONE* 9(7), e101757.
- VIERLING K.T., BÄSSLER C., BRANDL R., VIERLING L.A., WEISS I. & MÜLLER J., 2011: Spinning a laser web: predicting spider distributions using LiDAR. *Ecological Applications*, 21: 577-588.