

Publikationen Marco Heurich:

1. Web of Science:

1. van Beeck Calkoen, S. T. S., L. Mühlbauer, H. Andrén, M. Apollonio, L. Balčiauskas, E. Belotti, J. Carranza, J. Cottam, F. Filli, T. T. Gatiso, D. Hetherington, A. A. Karamanlidis, M. Krofel, H. S. Kuehl, J. D. C. Linnell, J. Müller, J. Ozolins, J. Premier, N. Ranc, K. Schmidt, D. Zlatanova, M. Bachmann, C. Fonseca, O. Ionescu, M. Nyman, N. Šprem, P. Sunde, M. Tannik, and M. Heurich (2020): Ungulate management in European national parks: Why a more integrated European policy is needed. *Journal of Environmental Management* 260:110068.
2. Naha, D., Dash, S., Chettri, A., Chaudhary, R., Sonker, G., Heurich, M., Rawat, G. and S. Sambandam (2020): Landscape predictors of human-leopard conflicts within multi-use areas of the Himalayan Region. *Scientific Reports* (accepted)
3. Gehr, B., Bonnot, N., Heurich, M., Cagnacci, F., Ciuti, S., Hewison, M., Gaillard, J-M., Ranc, N., Permier, J., Vogt, K., Hofer, E., Ryser, A., Vimercati, E. and L. Keller(2020): Stay home, stay safe - site familiarity reduces predation risk in a large herbivore in two contrasting study sites. *Journal of Animal Ecology* (accepted)
4. Heidrich, L., Bae, S., Levick, S., Seibold, S., Weisser, W., Krzystek, P., Magdon, P., Nauss, T., Schall, P., Serebryanyk, A., Wöllauer, S., Ammer, C., Bässler, C., Doerfler, I., Fischer, M., Gossner, M.M., Heurich, M., Hothorn, T., Jung, K., Kreft, H., Schulze, E-D., Simons, N., Thorn, S., and J. Müller (2020) "Heterogeneity-diversity relationships differ between and within trophic levels in temperate forests", has now been accepted for publication in *Nature Ecology & Evolution* (accepted)
5. Heurich, M., Niederlechner, S., Kröschel, M., Thoma, S., Dormann, C.F., Hartig, F. and M. Heurich (2020): The influence of camera trap flash type on the behavioural reactions and trapping rates of red deer and roe deer. *Remote Sensing in Ecology and Evolution* doi:10.1002/rse2.150.
6. Stiegler, J., von Hoermann, C., Müller, J., Benbow, M. E. and M. Heurich, M. (2020): Carcass provisioning for scavenger conservation in a temperate forest ecosystem. *Ecosphere*, 11(4), e03063
7. Peláez, M., Gaillard, J. M., Bollmann, K., Heurich, M. and M. Rehnus (2020): Large scale variation in birth timing and synchrony of a large herbivore along the latitudinal and altitudinal gradients. *Journal of Animal Ecology*(accepted).
8. Premier, J., Fickel, J., Heurich, M., & Kramer-Schadt, S. (2020). The boon and bane of boldness: movement syndrome as saviour and sink for population genetic diversity. *Movement Ecology*, 8, 1-17.

9. Ali, A. M., Darvishzadeh, R., Skidmore, A., Heurich, M., Paganini, M., Heiden, U. and S. Mücher, (2020): Evaluating Prediction Models for Mapping Canopy Chlorophyll Content Across Biomes. *Remote Sensing*, 12(11), 1788.
10. Ali, A. M., R. Darvishzadeh, A. Skidmore, T. W. Gara, B. O'Connor, C. Roeoesli, M. Heurich, and M. Paganini (2020): Comparing methods for mapping canopy chlorophyll content in a mixed mountain forest using Sentinel-2 data. *International Journal of Applied Earth Observation and Geoinformation* 87:102037.
11. Sebastián-González, E., Z. Morales-Reyes, F. Botella, L. Naves-Alegre, J. M. Pérez-García, P. Mateo-Tomás, P. P. Olea, M. Moleón, J. M. Barbosa, F. Hiraldo, E. Arrondo, J. A. Donázar, A. Cortés-Avizanda, N. Selva, S. A. Lambertucci, A. Bhattacharjee, A. L. Brewer, E. F. Abernethy, K. L. Turner, J. C. Beasley, T. L. DeVault, H. C. Gerke, O. E. Rhodes Jr, A. Ordiz, C. Wikenros, B. Zimmermann, P. Wabakken, C. C. Wilmers, J. A. Smith, C. J. Kendall, D. Ogada, E. Frehner, M. L. Allen, H. U. Wittmer, J. R. A. Butler, J. T. du Toit, A. Margalida, P. Oliva-Vidal, D. Wilson, K. Jerina, M. Krofel, R. KostECKE, R. Inger, E. Per, Y. Ayhan, H. Ulusoy, D. Vural, A. Inagaki, S. Koike, A. Samson, P. L. Perrig, E. Spencer, T. M. Newsome, M. Heurich, J. D. Anadón, E. R. Buechley, and J. A. Sánchez-Zapata (2020): Network structure of vertebrate scavenger assemblages at the global scale: drivers and ecosystem functioning implications. *Ecography* (accepted)
12. Krzystek, P., Serebryanyk, A., Schnörr, C., Červenka, J. and M. Heurich (2020): Large-Scale Mapping of Tree Species and Dead Trees in Šumava National Park and Bavarian Forest National Park Using Lidar and Multispectral Imagery. *Remote Sensing*, 12(4), 661.
13. Zhu, X., Liu, J., Skidmore, A. K., Premier, J., & Heurich, M. (2020). A voxel matching method for effective leaf area index estimation in temperate deciduous forests from leaf-on and leaf-off airborne LiDAR data. *Remote Sensing of Environment*, 240, 111696.
14. Senf, C., Lastovicka, J., Okujeni, A., Heurich, M., and S. van der Linden (2020): A generalized regression-based unmixing model for mapping forest cover fractions throughout three decades of Landsat data. *Remote Sensing of Environment*, 240, 111691.
15. Ali, A. M., R. Darvishzadeh, A. Skidmore, T. W. Gara, B. O'Connor, C. Roeoesli, M. Heurich, and M. Paganini. (2020): Comparing methods for mapping canopy chlorophyll content in a mixed mountain forest using Sentinel-2 data. *International Journal of Applied Earth Observation and Geoinformation* 87:102037.
16. Stereńczak, K., Mielcarek, M., Kamińska, A., Kraszewski, B., Piasecka, Z., Miścicki, S., Heurich, M. (2020): Influence of selected habitat and stand factors on bark beetle *Ips typographus* (L.) outbreak in the Białowieża Forest. *Ecology and Management*, 459, 117826
17. Shi, Y., Wang, T., Skidmore, A. K., and M. Heurich (2020): Improving LiDAR-based tree species mapping in Central European mixed forests using multi-temporal digital aerial colour-infrared photographs. *International Journal of Applied Earth Observation and Geoinformation*, 84, 101970.

18. Bonnot, N. C., Couriot, O., Berger, A., Cagnacci, F., Ciuti, S., De Groot, J., Gehr, B., Heurich, M., Kjellander, P., Kröschel, M., Morellet, N., Soennichsen, M. and M.J. Hewison (2020): Fear of the dark? Contrasting impacts of humans vs lynx on diel activity of roe deer across Europe. *Journal of Animal Ecology*. (accepted)
19. Boutsoukis, C., Manakos, I., Heurich, M., Delopoulos, A. (2019) Canopy height estimation from single multispectral 2D airborne imagery using texture analysis and machine learning in structurally rich temperate forests. *Remote Sensing*, 11(23), 2853.
20. Amiri, N., Krzystek, P., Heurich, M., Skidmore, A. (2019): Classification of tree species as well as standing dead trees using triple wavelength lidar in a temperate forest. *Remote Sensing*. 11(22), 2614
21. Frank, E., Bonke, R., Drees, N., Heurich, M., Märtlbauer, E., Gareis, M. (2019): Shiga toxin-producing *Escherichia coli* (STEC) shedding in a wild roe deer population. *Veterinary microbiology*, 239, 108479.
22. Bae, S., Levick, S.R., Heidrich, L., Magdon, P., Leutner, B.F., Wöllauer, S., Serebryanyk, A., Nauss, T., Krzystek, P., Gossner, M.M., Schall, P., Heibl, C., Bässler, C., Doerfler, I., Schulze, E.-D., Krah, F.-S., Culmsee, H., Jung, K., Heurich, M., Fischer, M., Seibold, S., Thorn, S., Gerlach, T., Hothorn, T., Weisser, W.W., Müller, J., (2019): Radar vision in the mapping of forest biodiversity from space. *Nature Communications* 10, 4757.
23. Gara, T.W., Darvishzadeh, R., Skidmore, A.K., Wang, T., Heurich, M. (2019): Evaluating the performance of PROSPECT in the retrieval of leaf traits across canopy throughout the growing season. *International Journal of Applied Earth Observations and Geoinformation*, 83, 101919
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26. van Beeck Calkoena, S.T.S., Leigh-Moyc,K., Cromsigt, J.P.G.M, Spong, G., Lebeau, L. C., Heurich, M. (2019): The Blame Game: Using eDNA to identify species-specific tree browsing by red deer (*Cervus elaphus*) and roe deer (*Capreolus capreolus*) in a temperate forest. *Forest Ecology and Management*, 451, 117483
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28. Liu, J., Skidmore, A.K., Jones, J., Wang, T., Heurich, M. (2019): Comparison of terrestrial LiDAR and digital hemispherical photography in estimating leaf angle distribution in broadleaf beech forests *ISPRS Journal of Photogrammetry and Remote Sensing*. 158, 76-89

29. Abdullah, H., Darvishzade, R., Skidmore, A.K, Heurich, M (2019): Timing of red-edge and shortwave infrared reflectance critical for early stress detection induced by bark beetle (*Ips typographus*, L.) attack. *International Journal of Applied Earth Observations and Geoinformation* , 82, 101900
30. Hayward, M. W., D. Jachowski, C. K. Bugir, J. Clulow, R. Krishnamurthy, A. S. Griffin, A. C. Chalmers, J. D. C. Linnell, R. A. Montgomery, M. J. Somers, R. Kowalczyk, M. Heurich, A. Caravaggi, K. A. Marnewick, Y. Di Blanco, C. M. Shuttleworth, A. Callen, F. Weise, R. Scanlon, A. Moehrensclager, L. G. Howell, and R. M. O. Upton. 2019. The search for novelty continues for rewilding. *Biological Conservation*. 10.1016/j.biocon.2019.05.041
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32. van der Knaap, W.O., van Leeuwen, J. F.N., Fahse, L., Szidat, S., Studer, T., Baumann, J., Heurich, M. and W. Tinner (2019): Vegetation and disturbance history of the Bavarian Forest National Park, Germany *Vegetation History and Archaeobotany*, 1-19.
33. Hofman, M. P. G., Hayward, M. W., Heim, M., Marchand, P., Rolandsen, C. M., Mattisson, J., Urbano, F., Heurich, M., Mysterud, A., Melzheimer, J., Morellet, N., Voigt, U., Allen, B. L., Gehr, B., Rouco, C., Ullmann, W., Holand, Ø., Jørgensen, N. H., Steinheim, G., Cagnacci, F., Kroeschel, M., Kaczensky, P., Buuveibaatar, B., Payne, J. C., Palmegiani, I., Jerina, K., Kjellander, P., Johansson, Ö., LaPoint, S., Bayrakcismith, R., Linnell, J. D. C., Zaccaroni, M., Jorge, M. L. S., Oshima, J. E. F., Songhurst, A., Fischer, C., Mc Bride, R. T., Jr., Thompson, J. J., Streif, S., Sandfort, R., Bonenfant, C., Drouilly, M., Klapproth, M., Zinner, D., Yarnell, R., Stronza, A., Wilmott, L., Meisingset, E., Thaker, M., Vanak, A. T., Nicoloso, S., Graeber, R., Said, S., Boudreau, M. R., Devlin, A., Hoogesteijn, R., May-Junior, J. A., Nifong, J. C., Odden, J., Quigley, H. B., Tortato, F., Parker, D. M., Caso, A., Perrine, J., Tellaeche, C., Zieba, F., Zwiacz-Kozica, T., Appel, C. L., Axsom, I., Bean, W. T., Cristescu, B., Périquet, S., Teichman, K. J., Karpanty, S., Licoppe, A., Menges, V., Black, K., Scheppers, T. L., Schai-Braun, S. C., Azevedo, F. C., Lemos, F. G., Payne, A., Swanepoel, L. H., Weckworth, B. V., Berger, A., Bertassoni, A., McCulloch, G., Šustr, P., Athreya, V., Bockmuhl, D., Casaer, J., Ekor, A., Melovski, D., Richard-Hansen, C., van de Vyver, D., Reyna-Hurtado, R., Robardet, E., Selva, N., Sergiel, A., Farhadinia, M. S., Sunde, P., Portas, R., Ambarli, H., Berzins, R., Kappeler, P. M., Mann, G. K., Pyritz, L., Bissett, C., Grant, T., Steinmetz, R., Swedell, L., Welch, R. J., Armenteras, D., Bidder, O. R., González, T. M., Rosenblatt, A., Kachel, S., & Balkenhol, N. (2019): Right on track? Performance of satellite telemetry in terrestrial wildlife research. *PLOS ONE*, 14(5): e0216223.
34. Meyer, M., Heurich, M., Beudert, B., Premier, J., Pflugmacher, D. (2019): Comparison between Landsat-8 and Sentinel-2 data for estimation of Leaf Area Index in temperate forests. *Remote Sensing*, 11(10), 1160.
35. Kuijper, D.P.J., Churski, M., Trouwborst, A., Heurich, M., Smit, C., Kerley, G.I.H., Cromsigt, J.P.G.M. (2019): Keep the wolf from the door: how to conserve wolves in Europe's human-dominated landscapes? *Biological Conservation*. 235, 102-111.

36. Peters, W., M. Hebblewhite, A. Mysterud, D. Eacker, A. J. M. Hewison, J. D. C. Linnell, S. Focardi, F. Urbano, J. De Groeve, B. Gehr, M. Heurich, A. Jarnemo, P. Kjellander, M. Kröschel, N. Morellet, L. Pedrotti, H. Reinecke, R. Sandfort, L. Sönnichsen, P. Sunde, and F. Cagnacci. (2019): Large herbivore migration plasticity along environmental gradients in Europe: life-history traits modulate forage effects. *Oikos* , 128(3), 416-429.
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42. Spitzer, R., M. Churski, A. Felton, M. Heurich, D. P. Kuijper, M. Landman, E. Rodriguez, N. J. Singh, P. Taberlet, and S. T. van Beeck Calkoen. (2019): Doubting dung: eDNA reveals high rates of misidentification in diverse European ungulate communities. *European Journal of Wildlife Research* 65:28.
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