Modelling of Red Fox Distribution: *Echinoccus multiocularis* Infection and Relations to Water and Other Ecological Factors

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The lecture presents spatial statistical results for a unique data set: more than 6 thousand locations of shooting red foxes in a region of 2500 km² during 5 years. In a first step, these data are analysed by means of methods of point processes. Of more interest are the spatial correlations between the shooting locations of foxes with tapeworm and ecological factors such as water courses and meadows. The statistical tools are methods for the analysis of correlations between point processes, random sets and fibre processes. It may be of methodological interest that methods for GIS are used.

References

