Acta Soc. Zool. Bohem. **77**: 335–345, 2013
ISSN 1211-376X

The journey is the reward: Life and work of Vojtěch Jarošík (1958–2013)

"It is with the deepest sadness that we announce that our dear colleague, eminent scientist and excellent teacher, Prof. RNDr. Vojtěch Jarošík, CSc. has passed away at the age of 54 after a long illness." I dare to say that when this message appeared on the web site of the Faculty of Science of Charles University in Prague on 18 June 2013, an important period in the development of modern Czech ecology was over due to the passing of one of the most distinguished personalities in this field.

Career

Vojtěch Jarošík was born in Kralovice, western Bohemia, on 7 November 1958. He attended primary school (1964–1973) and later on gymnasium in Plzeň (1973–1977) where he and I first met and became immediately close, united by a common interest in biology that became the fuel for our life-long friendship. Vojta successfully participated in secondary-school biological contests, that were held locally at particular schools all the way up to the national level. It was in such a contest that he undertook his first ecological study which was on the population dynamics of the pollen beetle, *Meligethes aeneus*, an important agricultural pest. He was awarded the first prize in that year. His interest in biology and agriculture, encouraged by his father who was an agricultural expert, brought him to study at the Czech Agricultural University in Prague in 1977. Although he moved to the Faculty of Science of Charles University after completing his first year

Fig. 1. Vojtěch Jarošík during sabbatical on Tongariro Mountain Track, New Zealand in 2011.

to follow his true interest in systematic biology, this episode left him with life-long deep relationship to agricultural sciences. This was later manifested by long-term cooperation with colleagues from this field and considering applied aspects of ecology in his work.

From there on, however, his career was closely linked with the Faculty of Science at the Charles University in Prague, where he commenced his studies in systematic biology in 1978, graduated in 1983, receiving the RNDr. title (similar to M. A.), and completed his CSc degree (*candidatus scientiarum*, equivalent to PhD) in 1984–1988 at the Department of Zoology. Within his postgraduate studies, he attended a course of biometry at Charles University and Czechoslovak Academy of Sciences in Prague (1985–1988), an effort that changed his professional career by drawing his interest towards statistical analysis of data, a field in which he later became renowned expert with a reputation greatly exceeding national boundaries.

His "agricultural ties" called again and brought him to his first position as a research entomologist at the Research Institute for Crop Production, Department of Entomology, Prague where he worked from 1986 to 1991. This is where Vojta began cooperating with Alois Honěk, a colleague with whom he built a long-term professional and personal relationship that yielded 15 joint papers in impact ranked journals to date. Following this position, a formal shift from agricultural research to biology ensued, this time for good – in April 1991 he became a faculty member, in 1994 Associate Professor of Ecology, and in 2006 full Professor of Ecology at his *alma mater*, the Faculty of Science, Charles University. For the sake of this biographic record, it should be added that beginning in April 2002 he was also affiliated with the Department of Invasion Ecology, Institute of Botany of the Academy of Sciences of the Czech Republic in Průhonice.

As many young scientists in their thirties, Vojta quickly took advantage of the opportunities made available as the political situation changed at the end of 1990s. He left for a research stay at prestigious Imperial College at Silwood Park, University of London, Ascot, England where he stayed from October 1993 to March 1994, and during that time mastered the then popular GLIM statistical software by closely interacting with its author Mick Crawley. After coming back from Silwood Park, still in the same year, he left again for a three month stay (June to August 1994) at the School of Biological Sciences, University of East Anglia, in Norwich, England. This is where another fruitful and mutually enriching cooperation began and that lasted until the end of Vojta's days – with Anthony Dixon, a leading expert in aphid research. Since the paper on population density and regulation processes in a tree-dwelling aphids in Journal of Animal Ecology in 1999, they published together 13 papers in impact ranked journals. Later on, Vojta was regularly visiting Norwich for shorter stays at the beginning of 2000s. He also closely cooperated with the Institut National de la Recherche Agronomique, Laboratoire de Biologie des Invertébrés, in Antibes, France where he visited for 2–5 months every year between 1995–1998. His last long-term research stay was with Lincoln University, New Zealand, from January to April 2011.

Scientist

The long list of scientific papers he coauthored shows that both nationally and internationally, ecological research has lost an important and a creative personality. A handful of numbers illustrate this convincingly. With 106 papers, an H index of 34, and total number of citations exceeding 3000 (note that the figure for 2012 alone is 700, indicating rapidly increasing recognition of Vojta's work) returned by Web of Science search as of November 2013, Vojtěch Jarošík was one of the most prolific and most cited researchers at the Prague Faculty of Science, and in the Czech ecology as a whole. While these indices are just numbers, the level of journals he published in is similarly impressive, with six papers in *Proceedings of the National Academy of Sciences of the United States of America*, four in *Ecology Letters* and *Ecology*, and publications also in *Nature*, *American Naturalist*, *Ecological Monographs* and other prestigious journals. It is no surprise that

Fig. 2. Vojtěch Jarošík during sabbatical on Avalanche Peak, New Zealand in March 2011.

in 2013 he received the Bedřich Hrozný Award for excellent publication achievements from the Chancellor of the Charles University. Sadly, he was not able to attend the ceremony because of rapidly deteriorating health conditions.

In total, his bibliography, as listed below, includes almost 150 items. In addition to the papers in journals on Web of Science that define the scientometric output, he authored a book on growth and regulation of populations (Academia 2005) and coauthored another one that resulted from the international DAISIE project (see below) on biological invasions (Springer 2009). The account is completed by seven book chapters with mostly prestigious publishing houses and 23 papers in other journals, both international and Czech.

Ecologist, entomologist, statistician, invasion biologist ... the range of Vojta's interest was wide; more specifically, he listed his interests as population ecology with focus on regulation of pests and protection of rare species, thermal characteristics of ektotherm organisms, statistical modelling of biological data, and biological invasions. Nevertheless, insect ecology was Vojta's primary research interest as illustrated by the bibliography below. Within this research, one theme deserves special mention – his studies on thermal development of insects conducted in cooperation with Alois Honěk and Anthony Dixon. In papers in *American Naturalist* (2002) and *Proceedings of the Royal Society* (2004), they proved the existence of developmental isomorphy in a range of insect groups (a phenomenon when the proportion of total developmental time spent in a particular developmental stage does not change with temperature), and generalized this principle to a wider range of ectotherm organisms, respectively. The existence of rate isomorphy could be of

great practical importance, for example, in the timing of life-history events and in determining preadult thermal requirements.

At the beginning of the 2000s, Vojta's career found a new focus when he became involved with key European projects on the study of biological invasions. He began working with plant ecologists at the Department of Invasion Ecology at the Institute of Botany AS CR and took the lead on the statistical analysis of data. The projects included the 5th EU framework programme GIANT ALIEN (2002–2005), in which we focused on the ecology and control of giant hogweed (*Heracleum mantegazzianum*), a large integrated project ALARM (Assessing LArge-scale environmental Risks with tested Methods, 2004–2008) and DAISIE (Delivering Alien Invasive Species Inventories for Europe, 2005–2007) within the 6th EU framework programme. In the latter project, which focused on building a European database of organisms introduced to this continent, he also used his entomological expertise to contribute to the survey of non-native insects. Finally, he took major part in the 7 FP project PRATIQUE (Enhancements of Pest Risk Analysis TechnIQUes; 2008–2011) to which he contributed by building predictive models of distribution of invasive pests.

The last decade saw a transformation of Vojtěch Jarošík into an almost full-time statistician. I was lucky that this shift in his research focus arrived hand in hand with his involvement in biological invasions and joining my team at the Institute of Botany. On more than 60 papers we wrote together since 2002, he was in full charge of data analysis. Working with him provided certainty that data were explored as thoroughly as possible, that the analyses were perfect, that Vojta always recognized potential weaknesses, and that he was never cornered by reviewers. The non-standard data we often worked with were perceived by him as a challenge. He invented new approaches, often fairly innovative, and pushed his creativity up to the limit especially when exploring the data mining approaches that became his favourite technique in recent years. He provided valuable feedback to the authors of the data-mining software such as CART, which resulted in his invited talk at the Salford Data Mining Conference in 2012.

Teacher

Vojtěch Jarošík's legacy as a teacher is as important as that of a scientist. His greatest achievement that will secure him a place in the history of Czech ecology was founding the Department of Ecology at the Faculty of Science in 2004. It was the first department of ecology in the country focusing purely on ecology as a science, without relation to environmental issues (as previously established departments at the Palacký University in Olomouc and at the Czech University of Life Sciences in Prague). Vojta was the brain behind conceptual issues and outlining avenues of research directions and served for two three-year periods as the Head. During this time he ushered the department to take its place among the scientifically most prolific and excellent units of the faculty. Besides organization work, he lived a normal life of a university teacher … supervising master and PhD students, writing textbooks, teaching courses such as Ecology (BSc. course), Population Ecology (MSc. course), Statistical Modelling (PhD. course), Advanced Statistical Methods (MSc. & PhD. Course), and Introduction to Agroecology.

Man

In the international consortia, he enjoyed great respect and love from colleagues, many of whom became friends over years, not only for his statistical skills and entomological knowledge, but maybe even more so for being a very positive and cheerful person. It is not inappropriate to say that he was a good spirit of European research on biological invasions of the last decade. This reflects what kind of person he was; quite a few people have noted that they do not know of anyone who disliked Vojta. Married to Blanka since 1982, they raised two daughters, Anna (1984) and Cecílie

(1986), the younger one walking in her father's footsteps as graduated ecologist. The family was the central point of Vojta's life, providing him with strong rooting, happiness and energy.

The illness mentioned in the quotation opening this memorial was cancer. Vojta was diagnosed in autumn 2012 but continued working as a prolific scientist even during his subsequent difficult fight against this disease, virtually to the end of his days. The very last statistical analysis he completed was a metaanalysis of the effect of plant invaders on seed bank communities – a week before he passed away. He never gave up until the very last moments.

Many people will sorely miss Vojta not only as an authority and source of expert advice on biostatistics, but more importantly as a modest, tolerant and kind colleague, who was always ready to help, and as a friend who was able to see the world around us in a wider perspective. In my very personal perspective, the title of this obituary, borrowed from the title of the Steve Jobs book, fits very much Vojta's life journey. I suspect that the phrase "it isn't the winning or losing that matters, it's how you play the game" might have been his personal motto. For him too, the real rewards were the skills he developed, what he learned about himself, and, probably most importantly, what he did for other people along the way.

Petr Pyšek

Complete bibliography of Professor Vojtěch Jarošík

Journals with Impact Factor

Jarošík V. 1989: Mass vs. length relationship for carabid beetles (Col., Carabidae). *Pedobiologia* **33**: 87–90.

Jarošík V. 1989: The application of loop analysis for biological control of glasshouse crops. *Acta Entomologica Bohemoslovaca* **86**: 86–95.

Jarošík V. 1990: Phytoseiulus persimilis A.-H. and its prey Tetranychus urticae Koch on glasshouse cucumbers and peppers: key factors related to biocontrol. *Acta Entomologica Bohemoslovaca* **87**: 414–430.

Jarošík V. & Plíva J. 1990: Efficient control of twospotted spider mite (Tetranychus urticae Koch) by Phytoseiulus persimilis A.-H. on glasshouse peppers. *Journal of Applied Entomology* **110**: 270–274.

Jarošík V. 1991: Are diversity indices of carabid beetle (Col., Carabidae) communities useful, redundant, or misleading? *Acta Entomologica Bohemoslovaca* **88**: 273–279.

Jarošík V. 1992: Pitfall trapping and species-abundance relationships: a value for carabid beetles (Coleoptera, Carabidae). *Acta Entomologica Bohemoslovaca* **89**: 1–12.

Kováčiková E. & Jarošík V. 1992: Red clover response to Fusarium oxysporum and F. solani, causal agents of crown and root rots. *Zentralblatt für Mikrobiologie* **147**: 405–408.

Kováčiková E. & Jarošík V. 1993: Transfer of the red clover reaction to crown and root diseases II. *Zentralblatt für Mikrobiologie* **148**: 74–77.

Věchet L. & Jarošík V. 1993: Prediction of powdery mildew epidemy in spring barley. *Zentralblatt für Mikrobiologie* **148**: 413–418.

Kocourek F., Havelka J., Beránková J. & Jarošík V. 1994: Effect of temperature on development rate and intrinsic rate of increase of Aphis gossypii reared on greenhouse cucumbers. *Entomologia Experimentalis et Applicata* **71**: 59–64.

Dixon A. F. G., Kindlmann P. & Jarošík V. 1995: Body size distribution in aphids: relative surface area of specific plant structures. *Ecological Entomology* **20**: 111–117.

Jackson D. L., Jarošík V. & Dixon A. F. G. 1996: Resource partitioning and tolerance of monoterpenes in four species of aphid. *Physiological Entomology* **21**: 242–256.

Jarošík V., Kováčiková E. & Maslowská H. 1996: The influence of planting location, plant growth stage and cultivars on microflora of winter wheat roots. *Microbiological Research* **151**: 177–182.

Holyoak M., Jarošík V. & Novák I. 1997: Weather-induced changes in moth activity bias measurement of long-term population dynamics from light trap samples. *Entomologia Experimentalis et Applicata* **83**: 329–335.

Jarošík V., Koliáš M., Lapchin L., Rochat J. & Dixon A. F. G. 1997: Seasonal trends in the rate of population increase of Frankliniella occidentalis (Thysanoptera, Thripidae) on cucumber. *Bulletin of Entomological Research* **87**: 487–495.

Honěk A., Jarošík V., Lapchin L. & Rabasse J. M. 1998: Sex allocation in the aphid parasitoid Aphelinus abdominalis (Hymenoptera: Aphelinidae). *Journal of Agricultural Entomology* **15**: 209–221.

Honěk A., Jarošík V., Lapchin L. & Rabasse J. M. 1998: The effect of parasitisation by Aphelinus abdominalis (Hymenoptera, Aphelinidae) on surface movement of aphids (Homoptera, Aphididae). *Entomologia Experimentalis et Applicata* **87**: 191–200.

Pyšek P., Kopecký M., Jarošík V. & Kotková P. 1998: The role of human density and climate in the spread of Heracleum mantegazzianum in the Central European landscape. *Diversity and Distributions* **4**: 9–16.
Honěk A., Martinková Z. & Jarošík V. 1999: Annual cycles of germinability and differences between primary and secondary dormancy in buried seeds of Echinochloa crus-galli. *Weed Research* **39**: 69–79.
Jarošík V. & Dixon A. F. G. 1999: Population dynamics of a tree-dwelling aphid: regulation and density independent processes. *Journal of Animal Ecology* **68**: 726–732.
Honěk A. & Jarošík V. 2000: The role of crop density, seed and aphid presence in diversification of field communities of Carabidae (Coleoptera). *European Journal of Entomology* **97**: 517–525.
Jarošík V. & Lapchin L. 2001: An experimental investigation of patterns of parasitism at three spatial scales in an aphid-parasitoid system. *European Journal of Entomology* **98**: 295–299.
Pyšek P., Jarošík V. & Kučera T. 2002: Patterns of invasion in temperature nature reserves. *Biological Conservation* **104**: 13–24.
Exnerová A., Jarošík V. & Krištín A. 2002: Intraspecific variation in foraging mode of the Northern Wheatear, Oenanthe oenanthe. *Ardea* **90**: 275–284.
Honěk A., Jarošík V., Martinková Z. & Novák I. 2002: Food induced variation of thermal constants of development and growth of Autographa gamma (Lepidoptera: Noctuidae) larvae. *European Journal of Entomology* **99**: 241–252.
Jarošík V., Honěk A. & Dixon A. F. G. 2002: Developmental rate isomorphy in insects and mites. *American Naturalist* **160**: 497–510.
Pyšek P., Kučera T. & Jarošík V. 2002: Plant species richness of nature reserves: the interplay of area, climate and habitat in a central European landscape. *Global Ecology and Biogeography* **11**: 279–289.
Rana J. S., Dixon A. F. G. & Jarošík V. 2002: Costs and benefits of prey specialisation in a generalist insect predator. *Journal of Animal Ecology* **71**: 15–22.
Honěk A., Martinková Z. & Jarošík V. 2003: Effect of temperature on development and reproduction of Gastrophysa viridula (Coleoptera, Chrysomelidae). *European Journal of Entomology* **100**: 295–300.
Honěk A., Martinková Z. & Jarošík V. 2003: Carabids as seed predators. *European Journal of Entomology* **100**: 531–544.
Hůrka K. & Jarošík V. 2003: Larval omnivory in Amara aenea (Coleoptera: Carabidae). *European Journal of Entomology* **100**: 329–335.
Jarošík V., Holý I., Lapchin L. & Havelka J. 2003: Sex ratio in the aphid parasitoid Aphidius colemani in relation to host size. *Bulletin of Entomological Research* **93**: 255–258.
Jarošík V., Honěk A. & Dixon A. F. G. 2003: Natural enemy ravine revisited: the importance of sample size for determining population growth. *Ecological Entomology* **28**: 85–91.
Pyšek P., Brock J. H., Bímová K., Mandák B., Jarošík V., Koukolíková I., Pergl J. & Štěpánek J. 2003: Vegetative regeneration in invasive Reynoutria taxa: the determinant of invasibility at genotype level? *American Journal of Botany* **90**: 1487–1495.
Pyšek P., Jarošík V. & Kučera P. 2003: Inclusion of native and alien species in temperature nature reserves: an historical study from Central Europe. *Conservation Biology* **17**: 1414–1424.
Pyšek P., Sádlo J., Mandák B. & Jarošík V. 2003: Czech alien flora and historical pattern of its formation: who came first to Central Europe? *Oecologia* **135**: 122–130.
Pyšek A., Pyšek P., Jarošík V., Hájek M. & Wild J. 2003: Diversity of native and alien plant species on rubbish dumps: effects of dump age, environmental factors and toxicity. *Diversity and Distribution* **9**: 177–189.
Hubert J., Jarošík V., Mourek J., Kubátová A. & Ždárková E. 2004: Astigmatid mite growth and fungi peference (Acari: Acaridida): comparisons in laboratory experiments. *Pedobiologia* **48**: 205–214.
Jarošík V., Kratochvíl L., Honěk A. & Dixon A. F. G. 2004: A general rule for the dependence of developmental rate on temperature in ectothermic animals. *Proceedings of the Royal Society London B* (*Supplementum*) **271**: S219–S221.
Pyšek P., Chocholoušková Z., Pyšek A., Jarošík V., Chytrý M. & Tichý L. 2004: Trends in species diversity and composition of urban vegetation over three decades. *Journal of Vegetation Science* **15**: 781–788.
Dixon A. F. G., Jarošík V. & Honěk A. 2005: Therm al requirements for development and resource partitioning in aphidophagous guild. *European Journal of Entomology* **102**: 407–411.
Krinke L., Moravcová L., Pyšek P., Jarošík V., Pergl J. & Perglová I. 2005: Seed bank in an invasive alien Heracleum mantegazzianum and its seasonal dynamics. *Seed Science Research* **15**: 239–248.
Moravcová L., Perglová I., Pyšek P., Jarošík V. & Pergl J. 2005: Effects of fruit position on fruit mass and seed germination in the alien species Heracleum mantegazzianum (Apiaceaae) and the implications for its invasion. *Acta Oecologica* **28**: 1–10.
Müllerová J., Pyšek P., Jarošík V. & Pergl J. 2005: Aerial photographs as a tool for assessing the history of invasion by Heracleum mantegazzianum. *Journal of Applied Ecology* **42**: 1042–1053.
Pyšek P., Jarošík V., Chytrý M., Kropáč Z., Tichý L. & Wild J. 2005: Alien plants in temperate weed communities on arable land: prehistoric and recent invaders differ in habitat affinities. *Ecology* **86**: 772–785.

Pyšek P., Jarošík V., Kropáč Z., Chytrý M., Wild J., Tichý L. & Sádlo J. 2005: Effects of abiotic factors on species richness and cover in Central European weed communities. *Agriculture Ecosystems & Environment* **109**: 1–8.
Williamson M., Pyšek P., Jarošík V. & Prach K. 2005: On the rates and patterns of spread of alien plants in the Czech Republic, Britain and Ireland. *Écoscience* **12**: 345–354.
Celesti-Grapow L., Pyšek P., Jarošík V. & Blasi C. 2006: Determinants of native and alien species richness in the urban flora of Rome. *Diversity and Distribution* **15**: 490–501.
Honěk A., Jarošík V. & Dixon A. F. G. 2006: Comparing growth patterns among field populations of cereal aphids reveals factors limiting their maximum abundance. *Bulletin of Entomological Research* **96**: 269–277.
Křivánek M., Pyšek P. & Jarošík V. 2006: Planting history and propagule pressure as predictors of invasions by woody species in a temperature region. *Conservation Biology* **20**: 1487–1498.
Mihulka S., Pyšek P., Martínková J. & Jarošík V. 2006: Invasiveness of Oenothera congeners alien to Europe: Jack of all trades, master of invasion? *Perspectives in Plant Ecology, Evolution and Systematics* **8**: 83–96.
Moravcová L., Pyšek P., Pergl J., Perglová I. & Jarošík V. 2006: Seasonal pattern of germination and seed longevity in the invasive species Heracleum mantegazzianum. *Preslia* **78**: 287–301.
Pyšek P., Richardson D. M. & Jarošík V. 2006: Who cites who in the invasion zoo: insights from an analysis of the most highly cited papers in invasion ecology. *Preslia* **78**: 437–468.
Exnerová A., Štys P., Fučíková E., Veselá S., Svádová K., Prokopová M., Jarošík V., Fuchs R. & Landová E. 2007: Avoidance of aposematic prey in european tits (Paridae): learned or innate? *Behavioural Ecology* **18**: 148–156.
Kaufnerová J., Münzbergová Z., Jarošík V. & Hubert J. 2007: The a-amylase inhibitor acarbose does not affect the parasitoid Venturia canescens when incorporated into the diet of its host Ephestia kuehniella. *Entomologia Experimentalis et Applicata* **124**: 17–25.
Lukáš J., Stejskal V., Jarošík V., Hubert J. & Žďárková E. 2007: Differential natural performance of four Cheyletus predatory mite species in Czech grain stores. *Journal of Stored Products Research* **43**: 97–102.
Prach K., Pyšek P. & Jarošík V. 2007: Climate and pH as determinants of vegatation succession in Central-European human-made habitats. *Journal of Vegetation Science* **18**: 701–710.
Pyšek P., Krinke L., Jarošík V., Perglová I., Pergl J. & Moravcová L. 2007: Timing and extent of tissue removal affect reproduction characteristics of an invasive species Heracleum mantegazzianum. *Biological Invasions* **9**: 335–351.
Chytrý M., Jarošík V., Pyšek P., Hájek O., Knollová I., Tichý L. & Danihelka J. 2008: Separating habitat invasibility by alien plants from the actual level of invasion. *Ecology* **89**: 1545–1553.
Kadlec T., Beneš J., Jarošík V. & Konvička M. 2008: Revisiting urban refuges: changes of butterfly and burnet fauna in Prague reserves over three decades. *Landscape and Urban Planning* **85**: 1–11.
Lambdon P. W., Pyšek P., Basnou C., Hejda M., Arianoutsou M., Essl F., Jarošík V., Pergl J., Winter M., Anastasiu P., Andriopoulos P., Bazos I., Brundu G., Celesti-Grapow L., Chassot P., Delipetrou P., Josefsson M., Kark S., Klotz S., Kokkoris Y., Kühn I., Marchante H., Perglová I., Pino J., Vilà M., Zikos A., Roy D. & Hulme E. P. 2008: Alien flora of Europe: species diversity, temporal trends, geographical patterns and research needs. *Preslia* **80**: 101–149.
Pyšek P., Jarošík V., Müllerová J., Pergl J. & Wild J. 2008: Comparing the rate of invasion by Heracleum mantegazzianum at continental, regional and local scales. *Diversity and Distributions* **14**: 355–363.
Pyšek P., Richardson D. M., Pergl J., Jarošík V., Sixtová Z. & Weber E. 2008: Geographical and taxonomical biases in invasion ecology. *Trends in Ecology and Evolution* **23**: 237–244.
Blumenthal D., Mitchell C. E., Pyšek P. & Jarošík V. 2009: Synergy between pathogen release and resource availability in plant invasion. *Proceedings of the National Academy of Sciences of the United States of America* **106**: 7899–7904.
Dixon A. F. G., Honěk A., Keil P., Kotela M. A. A., Sizling A. & Jarošík V. 2009: Relationship between the minimum and maximum temperature thresholds for development in insects. *Functional Ecology* **23**: 257–264.
Kadlec T., Kotela M. A. A. M., Novák I., Konvička M. & Jarošík V. 2009: Effect of land use and climate on the diversity of moth guilds with different habitat specialization. *Community Ecology* **10**: 152–158.
Hejda M., Pyšek P. & Jarošík V. 2009: Impact of invasive plants on the species richness, diversity and composition of invaded communities. *Journal of Ecology* **97**: 393–403.
Hejda M., Pyšek P., Pergl J., Sádlo J., Chytrý M. & Jarošík V. 2009: Invasion success of alien plants: do habitat affinities in the native distribution range matter? *Global Ecology and Biogeography* **18**: 372–382.
Perglová I., Pergl J., Skálová H., Moravcová L., Jarošík V. & Pyšek P. 2009: Differences in germination and seedling establishment of alien and native Impatiens species. *Preslia* **81**: 357–375.
Pyšek P., Jarošík V., Pergl J., Randall R., Chytrý M., Kühn I., Tichý L., Danihelka J., Chrtek J. jun. & Sádlo J. 2009: The global invasion success of Central European plants is related to distribution characteristics in their native range and specie traits. *Diversity and Distributions* **15**: 891–903.
Pyšek P., Křivánek M. & Jarošík V. 2009: Planting intensity, residence time, and species traits determine invasion success of alien woody species. *Ecology* **90**: 2734–2744.
Walther G.-R., Roques A., Hulme P. E., Sykes M. T., Pyšek P., Kühn I., Zobel M., Bacher S., Botta-Dukát Z., Bugmann H., Czúcz B., Dauber J., Hickler T., Jarošík V., Kenis M., Klotz S., Minchin D., Moora M., Nentwig W., Ott J.,

Panov V. E., Reineking B., Robinet C., Semenchenko V., Solarz W., Thuiller W., Vilà M., Vohland K. & Settele J. 2009: Alien species in a warmer world: risks and opportunities. *Trends in Ecology and Evolution* **24**: 686–693.

Kubešová M., Moravcová L., Suda J., Jarošík V. & Pyšek P. 2010: Naturalized plants have smaller genomes than their non-invading relatives: a flow cytometric analysis of the Czech alien flora. *Preslia* **82**: 81–96.

Mitchell C. E., Blumenthal D., Jarošík V., Puckett E. E. & Pyšek P. 2010: Controls on pathogen species richness in plants' introduced and native ranges: roles of host biological traits, range size, and residence time. *Ecology Letters* **13**: 1525–1535.

Moravcová L., Pyšek P., Jarošík V., Havlíčková V. & Zákravský P. 2010: Reproductive characteristics of neophytes in the Czech Republic: traits of invasive and non-invasive species. *Preslia* **82**: 365–390.

Phillips M. L., Murray B. R., Pyšek P., Pergl J., Jarošík V., Chytrý M. & Kühn I. 2010: Plant species of the Central European flora as aliens in Australia. *Preslia* **82**: 465–482.

Pyšek P., Bacher S., Chytrý M., Jarošík V., Wild J., Celesti-Grapow L., Gassó N., Kenis M., Lambdon W. P., Nentwig W., Pergl J., Roques A., Sádlo J., Solarz W., Vilà M. & Hulme P. E. 2010: Contrasting patterns in the invasions of European terrestrial and freshwater habitats by alien plants, insects and vertebrates. *Global Ecology and Biogeography* **19**: 317–331.

Pyšek P., Jarošík V., Hulme P. E., Kühn I., Wild J., Arianoutsou M., Bacher S., Chiron F., Didžiulis V., Essl F., Genovesi P., Gherardi F., Hejda M., Kark S., Lambdon P. W., Desprez-Loustau M.-L., Nentwig W., Pergl J., Poboljšaj K., Rabitsch W., Roques A., Roy D. B., Shirley S., Solarz W., Vilà M. & Winter M. 2010: Disentangling the role of environmental and human pressures on biological invasions across Europe. *Proceedings of the National Academy of Science of the United States of America* **107**: 12157–12162.

Vilà M., Basnou C., Pyšek P., Josefsson M., Genovesi P., Gollasch S., Nentwig W., Olenin S., Roques A., Roy D., Hulme P. E. & DAISIE partners. 2010: How well do we understand the impacts of alien species on ecosystems services? A pan-European, cross-taxa assessment. *Frontiers in Ecology and the Environment* **8**: 135–144.

Jarošík V., Honěk A., Magarey R. D. & Skuhrovec J. 2011: Developmental database for phenology models: related insect and mite species have similar thermal requirements. *Journal of Applied Entomology* **104**: 1870–1876.

Jarošík V., Pyšek P., Foxcroft L. C., Richardson D. M., Rouget M. & MacFadyen S. 2011: Predicting incursion of plant invaders into Kruger National Park, South Africa: the inperplay of general drivers and species-specific factors. *Public Library of Science One* **6**(12): e28711.

Jarošík V., Pyšek P. & Kadlec T. 2011: Alien plants in urban nature reserves: from red-list species to future invaders? *NeoBiota* **10**: 27–46.

Pyšek P., Jarošík V. & Pergl J. 2011: Alien plants introduced by different pathways differ in invasion success: unintentional introductions as a threat to natural areas. *Public Library of Science One* **6**(9): e24890.

Moravcová L., Pyšek P., Jarošík V. & Zákravský P. 2011: Potential phytotoxic and shading effects of invasive Fallopia (Polygonaceae) taxa on the germination of dominant native species. *NeoBiota* **9**: 31–47.

Kühn I., Kowarik I., Kollmann J., Starfinger U., Bacher S., Blackburn T. M., Bustamante R. O., Celesti-Grapow L., Chytrý M., Colautti R. I., Essl F., Foxcroft L. C., Garcia-Berthou E., Gollasch S., Hierro J., Hufbauer R. A., Hulme P. E., Jarošík V., Jeschke J. M., Karrer G., Mack R. N., Molofsky J., Murray B. R., Nentwig W., Osborne B., Pyšek P., Rabitsch W., Rejmanek M., Roques A., Shaw R., Sol D., van Kleunen M., Vilà M., von der Lippe M., Wolfe L. M. & Penev L. 2011: Editorial. Open minded and open access: introducing NeoBiota, a new peer-reviewed journal of biological invasions. *NeoBiota* **9**: 1–12.

Dupin M., Reynaud P., Jarošík V. , Baker R., Brunel S., Eyre D., Pergl J. & Makowski D. 2011: Effects of the training dataset characteristics on the performance of nine species distribution models: application to Diabrotica virgifera virgifera. *Public Library of Science One* **6**(6): e20957.

Blackburn T. M., Pyšek P., Bacher S., Carlton J. T., Duncan R. P., Jarošík V., Wilson J. R. U. & Richardson D. M. 2011: A proposed unified framework for biological invasions. *Trends in Ecology and Evolution* **26**: 334–339.

Essl F., Dullinger S., Rabitsch W., Hulme P. E., Hülber K., Jarošík V., Kleinbauer I., Krausmann F., Kühn I., Nentwig W., Vilà M., Genovesi P., Gherardi F., Desprez-Loustau M.-L., Roques A. & Pyšek P. 2011: Socioeconomic legacy yields an invasion debt. *Proceedings of the National Academy of Science of the United States of America* **108**: 203–207.

Essl F., Dullinger S., Rabitsch W., Hulme P. E., Hülber K., Jarošík V., Kleinbauer I., Krausmann F., Kühn I., Nentwig W., Vilà M., Genovesi P., Gherardi F., Desprez-Loustau M.-L., Roques A. & Pyšek P. 2011: Reply to Keller and Springborn: no doubt about invasion debt. *Proceedings of the National Academy of Science of the United States of America* **108**: E221.

Foxcroft L. C., Jarošík V., Pyšek P., Richardson D. M. & Rouget M. 2011: Protected-area boundaries as filters of plant invasions. *Conservation Biology* **25**: 400–405.

Jarošík V., Konvička M., Pyšek P., Kadlec T. & Beneš J. 2011: Conservation in a city: do the same principles apply to different taxa? *Biological Conservation* **144**: 490–499.

Matasová K., Kozubíková E., Svoboda J., Jarošík V. & Petrusek A. 2011: Temporal variation in the prevalence of the crayfish plague pathogen, Aphanomyces astaci, in three Czech spiny-cheek crayfish populations. *Knowledge and Management of Aquatic Ecosystems* **401**: 14p1–14p9.

Pyšek P., Jarošík V., Chytrý M., Danihelka J., Kühn I., Pergl J., Tichý M., Biesmeur J. C., Ellis W. N., Kunin W. E. & Settele J. 2011: Successful invaders co-opt pollinators of native flora and accumulate insect pollinators with increasing residence time. *Ecological Monographs* **81**: 277–293.

Pyšek P., Jarošík V., Pergl J. & Wild J. 2011: Colonization of high altitudes by alien plants over the last two centuries. *Proceedings of the National Academy of Science of the United States of America* **108**: 439–440.

Simberloff D., Alexander J., Allendorf F., Aronson J., Antunes P. M., Bacher S., Bardgett R., Bertolino S., Bishop M., Blackburn T. M., Blakeslee A., Blumenthal D., Bortolus A., Buckley R., Buckley Y., Byers J., Callaway R. M., Campbell F., Campbell K., Campbell M., Carlton J. T., Cassey P., Catford J., Celesti-Grapow L., Chapman J., Clark P., Clewell A., Clode J. C., Chang A., Chytrý M., Clout M., Cohen A., Cowan P., Cowie R. H., Crall A. W., Crooks J., Deveney M., Dixon K., Dobbs F. C., Duffy D. C., Duncan R., Ehrlich P. R., Eldredge L., Evenhuis N., Fausch K. D., Feldhaar H., Firn J., Fowler A., Galil B., Garcia-Berthou E., Geller J., Genovesi P., Gerber E., Gherardi F., Gollasch S., Gordon D., Graham J., Gribben P., Griffen B., Grosholz E. D., Hewitt C., Hierro J. L., Hulme P., Hutchings P., Jarošík V., Johnson C., Johnson L., Johnston E. L., Jones C. G., Keller R., King C. M., Knols B. G. J., Kollmann J., Kompas T., Kotanen P. M., Kowarik I., Kumschick S., Leung B., Liebhold A., MacIsaac H., Mack R., McCullough D. G., McDonald R., Merritt D. M., Meyerson L., Minchin D., Mooney H. A., Morisette J. T., Moyle P., Müller-Schärer H., Murray B. R., Nehring S., Nelson W., Nentwig W., Novak S. J., Occhipinti A., Ojaveer H., Osborne B., Ostfeld R. S., Parker J., Pederson J., Pergl J., Phillips M. L., Pyšek P., Rejmánek M., Ricciardi A., Ricotta C., Richardson D., Rilov G., Ritchie E., Robertson P. A., Roman J., Ruiz G., Schaefer H., Schaffelke B., Schierenbeck K. A., Schmitz D. C., Schwindt E., Seeb J., Smith L. D., Smith G. F., Stohlgren T., Strayer D. L., Strong D., Sutherland W. J., Therriault T., Thuiller W., Torchin M., van der Putten V., Vilà M., Von Holle B., Wallentinus I., Wardle D., Williamson M., Wilson J., Winter M., Wolfe L. M., Wright J., Wonham M. & Zabin C. 2011: Non-natives, 141 scientists object. *Nature* **475**: 36.

Vilà M., Espinar J. L., Hejda M., Hulme P. E., Jarošík V., Maron J. L., Pergl J., Schaffner U., Sun Y. & Pyšek P. 2011: Ecological impacts of invasive alien plants: a meta-analysis of their effects on species, communities and ecosystems. *Ecology Letters* **14**: 702–708.

Chytrý M., Wild J., Pyšek P., Jarošík V., Dendoncker N., Reginster I., Pino J., Maskell L. C., Vilà M., Pergl J., Kühn I., Spangenberg J. H. & Settele J. 2012: Projecting trends in plant invasions in Europe under different scenarios of future land-use change. *Global Ecology and Biogeography* **21**: 75–87.

Pergl J., Pyšek P., Perglová I. & Jarošík V. 2012: Low persistence of a monocarpic invasive plant in historical sites biases our perception of its actual distribution. *Journal of Biogeography* **39**: 1293–1302.

Pluess T., Cannon R., Jarošík V., Pergl J., Pyšek P. & Bacher S. 2012: When are eradication campaigns successful? A test of common assumptions. *Biological Invasions* **14**: 1365–1378.

Pluess T., Jarošík V., Pyšek P., Cannon R., Pergl J., Breukers A. & Bacher S. 2012: Which factors affect he success or failure of eradication campaigns against alien species? *Public Library of Science One* **7**(10): e48157.

Pyšek P., Danihelka J., Sádlo J., Chrtek J. Jr., Chytrý M., Jarošík V., Kaplan Z., Krahulec F., Moravcová L., Pergl J., Štajerová K. & Tichý L. 2012: Catalogue of alien plants of the Czech Republic (2nd edition): checklist update, taxonomic diversity and invasion patterns. *Preslia* **84**: 155–255.

Pyšek P., Jarošík V., Hulme P. E., Pergl J., Hejda M., Schaffner U. & Vilà M. 2012: A global assessment of invasive plant impacts on resident species, communities and ecosystems: the interaction of impact measures, invading species' traits and environment. *Global Change Biology* **18**: 1725–1737.

Xu H., Qiang S., Genovesi P., Ding H., Wu J., Meng L., Han Z., Miao J., Hu B., Guo J., Sun H., Huang C., Lei J., Le Z., Zhang X., He S., Wu Y., Zheng Z., Chen L., Jarošík V. & Pyšek P. 2012: An inventory of invasive alien species in China. *NeoBiota* **15**: 1–26.

Dixon A. F. G., Honěk A. & Jarošík V. 2013: Physiological mechanisms governing slow and fast development in predatory ladybirds. *Physiological Entomology* **38**: 26–32.

Dullinger S., Essl F., Rabitsch W., Erb K.-H., Gingrich S., Haberl H., Hülber K., Jarošík V., Krausmann F., Kühn I., Pergl J., Pyšek P. & Hulme P. E. 2013: Europe's other debt crisis caused by the long legacy of future extinctions. *Proceedings of the National Academy of Science of the United States of America* **110**: 7342–7347.

Hui C., Richardson D. M., Pyšek P., LeRoux J. J., Kučera T. & Jarošík V. 2013: Increasing functional modularity with residence time in the co-distribution of native and introduced vascular plants. *Nature Communications* **4**: 2454.

Hulme P. E., Pyšek P., Jarošík V., Pergl J., Schaffner U. & Vilà M. 2013: Bias and error in understanding plant invasion impacts. *Trends in Ecology and Evolution* **28**: 212–218.

Parker J. D., Torchin M. E., Hufbauer R. A., Lemoine N. P., Alba C., Blumenthal D. M., Bossdorf O., Byers J. E., Dunn A. M., Heckman R. W., Hejda M., Jarošík V., Kanarek A. R., Martin L. B., Perkins S. E., Pyšek P., Schierenbeck K., Schloder C., Van Klinken R., Vaughn K. J., Williams W. & Wolfe L. M. 2013: Do invasive species perform better in their new ranges? *Ecology* **94**: 985–994.

Pyšek P., Hulme P. E., Meyerson L. A., Smith G. F., Boatwright J. S., Crouch N. R., Figueiredo E., Foxcroft L. C., Jarošík V., Richardson D. M., Suda J. & Wilson J. R. 2013: Hitting the right target: taxonomic challenges of, and for, biological invasions. *AoB Plants* **5**: plt042.

Skálová H., Jarošík V., Dvořáčková Š. & Pyšek P. 2013: Effect of intra- and interspecific competition on the performance of native and invasive species of Impatiens under varying levels of shade and moisture. *Public Library of Science One* **8**(5): e62842.
Hulme P. E., Pyšek P., Pergl J., Jarošík V., Schaffner U. & Vilà M. in press: Greater focus needed on plant invasion impacts in protected areas. *Conservation Letters*.
Pyšek P., Jarošík V., Pergl J., Moravcová J., Chytrý M. & Kühn I. in press: Temperate trees and shrubs as global invaders: the relationship between invasiveness and native distribution depends on biological traits. *Biological Invasions*.
Gioria M., Jarošík V. & Pyšek P. in press: Impact of alien invasive plants on soil seed bank communities: emerging patterns. *Perspectives in Plant Ecology*, *Evolution and Systematics*.

Books

Jarošík V. 2005: *Růst a regulace populací* [*The Growth and Regulation of Populations*]. Praha: Academia, 170 pp (in Czech).
DAISIE 2009: *Handbook of Alien Species in Europe*. Springer, 399 pp.

Book Chapters

Pyšek P. & Jarošík V. 2005: Residence time determines the distribution of alien plants. Pp.: 77–96. In: Inderjit (ed.): *Invasive Plants*: *Agricultural and Ecological Aspects*. Basel: Birkhauser Verlag, 300 pp.
Jarošík V. & Honěk A. 2007: Sexual differences in insect development time in relation to sexual size dimorphism. Pp.: 205–211. In: Fairbairn D., Blanckenhorn W. & Szekely T. (eds): *Sex, Size and Gender Roles*. Oxford: Oxford University Press, 280 pp.
Kindlmann P., Jarošík V. & Dixon A. F. G . 2007: Population dynamics. Pp.: 311–329. In: van Eden H. F. & Harrington R. (eds): *Aphids as Crop Pests.* Wallingford: CAB International, 752 pp.
Pyšek P., Müllerová J. & Jarošík V. 2007: Historical dynamics of Heracleum mantegazzianum invasion at a regional and local scales. Pp.: 42–54. In: Pyšek P., Cock M. J. W., Nentwig W. & Ravn H. P. (eds): *Ecology and Management of Giant Hogweed (Heracleum mantegazzianum)*. Wallingford: CAB International, 324 pp.
Pyšek P., Perglová I., Krinke L., Jarošík V., Pergl J. & Moravcová L. 2007: Regeneration ability of Heracleum mantegazzianum plants and its implications for control. Pp.: 112–125. In: Pyšek P., Cock M. J. W., Nentwig W. & Ravn H. P. (eds): *Ecology and Management of Giant Hogweed* (*Heracleum mantegazzianum*). Wallingford: CAB International, 324 pp.
Pyšek P., Chytrý M. & Jarošík V. 2009: Habitats and land use as determinants of plant invasions in the temperature zone of Europe. Pp.: 66–79. In: Perrings C., Mooney H. & Williamson M. (eds): *Bioinvasion and Globalization. Ecology, Economics, Management and Policy*. Oxford: Oxford University Press, 288 pp.
Jarošík V. 2011: CART and related methods. Pp.: 104–108. In: Simberloff D. & Rejmánek M. (eds): *Encyclopedia of Biological Invasions.* Berkeley & Los Angeles: University of California Press, 792 pp.

Textbooks

Barták M. & Jarošík V. 2004: *Ekologie agroekosystémů. Část 10. Produkční ekologie agroekosystému a tvorba hospodářského výnosu* [*Ecology of Agroecosystems. Part 10. Production Ecology and Economic Yield*]. Skripta Agronomické fakulty České zemědělské univerzity v Praze. Praha: ČZU, 48 pp (in Czech).
Barták M. & Jarošík V. 2005: *Ekologie agroekosystémů. Část 1. Vymezení agroekologie. Část 2. Agroekosystém* [*Ecology of Agroecosystems. 1. Definition of Agroecology. 2. Agroecosystem*]. Skripta Agronomické fakulty České zemědělské univerzity v Praze. Praha: ČZU, 26 pp (in Czech).

Other publications

Jarošík V. 1983: A comparison of the diversity of carabid beetles (Col., Carabidae) of two floodplain forests differently affected by emissions. *Věstník Československé Společnosti Zoologické* **47**: 215–220.
Jarošík V. & Hůrka K. 1986: Die Coleopterenfauna des Rapsfelds. *Věstník Československé Společnosti Zoologické* **50**: 192–212.
Jarošík V. 1987: Některé problémy organizace společenstev [Some problems of biological organization of communities]. *Biologické Listy* **52**: 109–123 (in Czech).
Jarošík V. 1992: Alternativní přístupy k ekologii společenstev [Alternative approaches to commuity ecology]. *Biologické Listy* **57**: 177–196 (in Czech).
Kocourek F., Beránková J. & Jarošík V. 1993: Introduction of predatory midge Aphidoletes aphidimyza (Rondani) for control of cotton aphid, Aphis gossypii Glover, on greenhouse cucumbers. *Ochrana Rostlin* **29**: 179–185.
Jarošík V. & Plíva J. 1995: Assessment of Amblyseius barkeri (Acarina: Phytoseiidae) as a control agent for thrips on greenhouse cucumbers. *Acta Societas Zoologicae Bohemoslovacae* **59**: 177–186.
Jarošík V., Honěk A., Lapchin L. & Rabasse J.-M. 1996: An assessment of time varying rate of increase of green peach aphid, Myzus persicae: its importance in IPM of commercial greenhouse peppers. *Ochrana Rostlin* **32**: 269–276.

Jarošík V., Honěk A., Rabasse J.-M. & Lapchin L. 1996: Life-history characteristics of the aphid parasitoid Aphelinus abdominalis reared on Macrosiphum euphorbiae. *Ochrana Rostlin* **32**: 83–88.

Brown M. W., Niemczyk E., Baicu T., Balázs K., Jarošík V., Jenser G., Kocourek F., Olszak R., Serboiu A. & van der Zwet T. 1997: Enhanced biological control in apple orchards using ground covers and selective insecticides: an international study. *Zahradnictví – Horticultural Science* [Prague] **24**: 35–37.

Jarošík V. & Lapchin L. 1998: Development time of the Western Flower Thrips, Frankliniella occidentalis: consequences in breeding for host plant resistance. *Plant Protection Science* **34**: 116–119.

Fejt R. & Jarošík V. 2000: Assessment of interactions between the predatory bug Orius insidiosus and the predatory mite Phytoseiulus persimilis in biological control on greenhouse cucumber. *Plant Protection Science* **36**: 85–90.

Hůrka K. & Jarošík V. 2001: Development, breeding type and diet of members of the Amara communis species aggregate (Coleoptera: Carabidae). *Acta Societatiss Zoologicae Bohemoslovaca* **65**: 17–23.

Saska P. & Jarošík V. 2001: Laboratory study of larval food requirements in nine species of Amara (Coleoptera: Carabidae). *Plant Protection Science* **37**: 103–110.

Kocourek F., Láska P. & Jarošík V. 2002: Thermal requirements for flight of six species of flee beetle of the genus Phyllotreta (Coleoptera: Chrysomelidae). *Plant Protection Science* **38**: 76–80.

Jarošík V., Honěk A. & Tichopád A. 2003: Comparison of field population growths of three cereal aphid species on winter wheat. *Plant Protection Science* **39**: 61–64.

Jarošík V., Polechová J., Dixon A. F. G. & Honěk A. 2003: Developmental isomorphy in ladybirds (Coleoptera: Coccinellidae). Pp.: 55–64. In: Soares A. O., Ventura M. A., Garcia V. & Hemptine J.-L. (eds): *Proceedings of the 8th International Symposium on Ecology of Aphidophaga: Biology, Ecology and Behaviour of Aphidophagous Insects. Arquipélago. Life and Marine Sciences. Supplement 5*. Ponta Delgada: University of the Azores, x+112 pp.

Pyšek P., Kučera T. & Jarošík V. 2004: Druhová diverzita a rostlinné invaze v českých rezervacích: co nám mohou říci počty druhů? [Species diversity and plant invasions in Czech nature reserves: what can species numbers tell us?] *Příroda* [Praha] **21**: 63–89 (in Czech).

Müllerová J., Pyšek P., Pergl J. & Jarošík V. 2008: Dlouhodobá dynamika šíření bolševníku velkolepého (Heracleum mantegazzianum) v krajině: využití leteckých snímků [Long-term dynamics of Heracleum mantegazzianum invasion at the landscape scale: the use of aerial photography]. *Zprávy České Botanické Společnosti 43*, *Mater.* **23**: 91–102 (in Czech).

Pyšek P., Jarošík V., Chytrý M. & Pergl J. 2008: Projekty 6. rámcového programu Evropské unie zaměřené na biologické invaze: DAISIE a ALARM [Projects of the 6th Framework Programme of the European Union dealing with biological invasions: DAISIE and ALARM]. *Zprávy České Botanické Společnosti 43*, *Mater*. **23**: 199–211 (in Czech).

Dixon A. F. G., Agarwala B., Hemptine J.-L., Honěk A. & Jarošík V. 2011: Fast-slow continuum in the life history parameters of ladybirds revisited. *European Journal of Environmental Sciences* **1**: 61–66.

Baker R. H. A., Benninga J., Bremmer J., Brunel S., Dupin M., Eyre D., Ilieva Z., Jarošík V., Kehlenbeck H., Kriticos D. J., Makowski D., Pergl J., Reynaud P., Robinet C., Soliman T., Van der Werf W. & Worner S. 2012: A decision-support scheme for mapping endangered areas in pest risk analysis. *EPPO Bulletin* **42**: 65–73.

Eyre D., Baker R. H. A., Brunel S., Dupin M., Jarošík V., Kriticos D. J., Makowski D., Pergl J., Reynaud P., Robinet C. & Worner S. 2012: Rating and mapping the suitability of the climate for pest risk analysis. *EPPO Bulletin* **42**: 48–55.

Petr Pyšek