

Volume 172 • Number 2 • June 2013

Oecologia



METHODS

Inferring host specificity and network formation through agent-based models: tick–mammal interactions in Borneo

K. Wells · R.B. O'Hara · M. Pfeiffer · M.B. Lakim · T.N. Petney · L.A. Durden **307**

PHYSIOLOGICAL ECOLOGY

Water flux of *Eucalyptus regnans*: defying summer drought and a record heatwave in 2009

S. Pfautsch · M.A. Adams **317**

Whole-canopy carbon gain as a result of selection on individual performance of ten genotypes of a clonal plant

P.J. Vermeulen · N.P.R. Anten · J.F. Stuefer · H.J. During **327**

Nocturnal loss of body reserves reveals high survival risk for subordinate great tits wintering at extremely low ambient temperatures

I. Krams · D. Cirule · J. Vrublevska · A. Nord · M.J. Rantala · T. Krama **339**

Inverse gradients in leaf wax δD and $\delta^{13}C$ values along grass blades of *Miscanthus sinensis*: Implications for leaf wax reproduction and plant physiology

L. Gao · Y. Huang **347**

Multifunctional bracts enhance plant fitness during flowering and seed development in *Rheum nobile* (Polygonaceae), a giant herb endemic to the high Himalayas

B. Song · Z.-Q. Zhang · J. Stöcklin · Y. Yang · Y. Niu · J.-G. Chen · H. Sun **359**

BEHAVIORAL ECOLOGY

Individual and spatio-temporal variations in the home range behaviour of a long-lived, territorial species

L. Campioni · M.M. Delgado · R. Lourenço · G. Bastianelli · N. Fernández · V. Penteriani **371**

Shoaling behaviour enhances risk of predation from multiple predator guilds in a marine fish

J.R. Ford · S.E. Swearer **387**

Optimal mate choice patterns in pelagic copepods

J. Heuschele · S. Eliassen · T. Kiørboe **399**

Prey selectivity affects reproductive success of a corallivorous reef fish

R.M. Brooker · G.P. Jones · P.L. Munday **409**

Acquisition of species-specific perfume blends: influence of habitat-dependent compound availability on odour choices of male orchid bees (*Euglossa* spp.)

T. Pokorny · M. Hannibal · J.J.G. Quezada-Euan · E. Hedenström · N. Sjöberg · J. Bång · T. Eltz **417**

POPULATION ECOLOGY

Sex-specific senescence in body mass of a monogamous and monomorphic mammal: the case of Alpine marmots

M. Tafani · A. Cohas · C. Bonenfant · J.-M. Gaillard · S. Lardy · D. Allainé **427**

PLANT-ANIMAL INTERACTIONS

Variation in the reproductive performance of the *Trollius–Chiastocheta* mutualism at the edge of its range in north-east Germany

T. Lemke · S. Porembski **437**

Contrasting impacts of different-sized herbivores on species richness of Mediterranean annual pastures differing in primary productivity

M. Rueda · S. Rebollo · G. García-Salgado **449**

Reproductive success of individuals with different fruit production patterns. What does it mean for the predator satiation hypothesis?

M. Żywiec · J. Holeksa · M. Ledwoń · P. Seget **461**

(Contents continued on inside back cover)

Contents continued

Evidence for pollen limitation of a native plant in invaded communities

E.M. Da Silva · V.M. King · J.L. Russell-Mercier · R.D. Sargent 469

Mass-flowering crops enhance wild bee abundance

A. Holzschuh · C.F. Dormann · T. Tschardt · I. Steffan-Dewenter 477

COMMUNITY ECOLOGY

Water use patterns of estuarine vegetation in a tidal creek system

L. Wei · D.A. Lockington · S.-C. Poh · M. Gasparon · C.E. Lovelock 485

Biotic interactions as a structuring force in soil communities: evidence from the micro-arthropods of an Antarctic moss model system

T. Caruso · V. Trokhymets · R. Bargagli · P. Convey 495

Habitat heterogeneity promotes the coexistence of exotic seaweeds

L. Tamburello · L. Benedetti-Cecchi · L. Masini · F. Bulleri 505

ECOSYSTEM ECOLOGY

Positive feedback favors invasion by a submersed freshwater plant

R.A. Urban · J.E. Titus · H.H. Hansen 515

Spatially variable effects of a marine pest on ecosystem function

D.J. Ross · A.R. Longmore · M.J. Keough 525

Provisioning of bioavailable carbon between the wet and dry phases in a semi-arid floodplain

D.S. Baldwin · G.N. Rees · J.S. Wilson · M.J. Colloff · K.L. Whitworth · T.L. Pitman · T.A. Wallace 539

Are cyanobacterial blooms trophic dead ends?

M.-E. Perga · I. Domaizon · J. Guillard · V. Hamelet · O. Anneville 551

GLOBAL CHANGE ECOLOGY

Contrasting spatial and temporal responses of bird communities to landscape changes

S. Bonthoux · J.-Y. Barnagaud · M. Goulard · G. Balent 563

Contrasting resource limitations of marine primary producers: implications for competitive interactions under enriched CO₂ and nutrient regimes

L.J. Falkenberg · B.D. Russell · S.D. Connell 575

Evolutionary determinants of population differences in population growth rate × habitat temperature interactions in *Chironomus riparius*

S. Nemeč · S. Patel · C. Nowak · M. Pfenninger 585

Winter rainfall predicts phenology in widely separated populations of a migrant songbird

A.E. McKellar · P.P. Marra · S.J. Hannon · C.E. Studds · L.M. Ratcliffe 595

CONSERVATION ECOLOGY

Estimates of connectivity reveal non-equilibrium epiphyte occurrence patterns almost 180 years after habitat decline

V. Johansson · T. Snäll · T. Ranius 607

Further articles can be found at www.springerlink.com

Indexed/abstracted in *Science Citation Index*, *Science Citation Index Expanded (SciSearch)*, *PubMed/Medline*, *SCOPUS*, *EMBASE*, *Google Scholar*, *EBSCO*, *CSA*, *ProQuest*, *CAB International*, *Abstracts in Anthropology*, *Academic OneFile*, *AGRICOLA*, *ASFA*, *Biological Abstracts*, *Biological and Agricultural Index*, *BIOSIS*, *CAB Abstracts*, *Current Abstracts*, *Current Contents/Agriculture, Biology & Environmental Sciences*, *Elsevier Biobase*, *EMBiology*, *Environment Index*, *Gale*, *Geobase*, *GeoRef*, *Global Health*, *Health Reference Center Academic*, *IBIDS*, *INIS Atomindex*, *International Bibliography of Book Reviews (IBR)*, *International Bibliography of Periodical Literature (IBZ)*, *Journal Citation Reports/Science Edition*, *JSTOR*, *OCLC*, *OmniFile*, *PASCAL*, *Science Select*, *SCImago*, *Summon by Serial Solutions*, *VINITI - Russian Academy of Science*, *Zoological Record*

Instructions for authors for *Oecologia* are available at www.springer.com/442