ODONATOLOGICAL ABSTRACTS

1994

(14560) CLAYTON, P.A., 1994. *Chronicle of the Pharaohs: the reign-by-reign record of the rulers and dynasties of ancient Egypt.* Thames & Hudsch, London. 224 pp. ISBN 0-500-05074-0.
On p. 49, a reference is made to the "20 silver bracelets inlaid with delicate dragonflies", found 1925 in the tomb of Queen Hetep-Heres, the wife of Pharao Snefru (2613--2589 BC) and mother of Pharaoh Khufu (= Cheops; 2589-2566 BC, Dynasty 4, Old Kingdom).

(14561) ROWE, R.J., 1994. Agonistic behaviour of final-instar larvae of the damselfly Neosticta fraseri (Odonata: Isostictidae). *Aust. J. Zool.* 42(6): 733-734. – (Sch. Trop. Biol., James Cook Univ., Townsville, Qld 4811, AU).
20 major displays were distinguished. Display motor patterns showed general similarity with those in coenagrionid larvae. The agonistic behaviour repertoir of N. fraseri is contrasted with published information on coenagrionid larvae and with the behaviours of Diphlebia euphoeoides (Amphipterygidae; cf. *OA* 9165), a superficially similar larva occurring in the same habitat. The use of larval agonistic display characters in phylogenetic analysis is discussed.

1995

(14562) CHAZEAU, J., 1995. *Bibliographie indexée de la fauna terrestre de Nouvelle-Calédonie: systematique, écologie et biogéographie.* ORSTOM, Paris. 95 pp. ISBN 2-7099-1274-0. (Bilingual: Fr. & Engl.).
It includes 15 odonatol. titles.

1996

(14563) BERNARD, M., 1996. [Faune et flore de la Réserve naturelle des Marais de Bruges]: Odonates. *Mém. Soc. linn. Bordeaux* 3: 122-124. – (Author's address not stated).
18 spp. are listed from the Reserve nr. Brugge, Belgium. Libellula fulva (abundant) and Crocothemis erythraea are of particular interest.

(14564) HOSTETTLER, K., 1996. Libellen (Odonata) in den Naturschutzgebieten Bangser Ried und Matschels (Vorarlberg). *Vorarlberg. Naturschau* 2: 261-264. – (Schulstr. 7, CH-8590 Romanshorn).
An annotated list of 15 spp. from 2 nature reserves in Vorarlberg prov., W. Austria.

1998

(14565) DONNELLY, T.W., N. VON ELLENRIEDER & J. MUZÓN, 1998. Nuevos registros de Odonata (Insecta) para la Argentina. *Neotropica* 44(111/112): 115-116. – (First Author: 2091 Partridge Lane, Binghamton, NY 13903, USA).
Locality data are presented for 17 spp. new to Argentina, and lists are provided of the spp. recorded from Calilegua National Park, and of additions to the odon. fauna of Iguazu National Park.

(14566) KOTARAC, M., 1998. Presoja vplivov na okolje za AC odsek Krška Vas - Obrežje za floro in vegetacijo, favno ter biotope: kačji pastirji. – [Assessment of the environmental impact on flora, vegetation, fauna and biotopes for the highway section Krška Vas - Obrežje: dragonflies]. *In*: K. Poboljšaj, *Presoja vplivov na okolje za AC odsek Krška Vas - Obrežje [...],*

Appendix 5, pp. 1-5. Slovenian Mus. Nat. Hist., Ljubljana. (Slovene). – (CKFF, Zemljemerska 10, SI--1000 Ljubljana).
In this area (Lower Carniola), 33 spp. are known from 7 water bodies, the Krka R. supports the largest Cercion lindenii population in Slovenia. The spp. are listed (7 of them are redlisted in Slovenia), and the possible effects of the highway construction on the odon. fauna is assessed. An absolute protection of the Prilipe oxbow is advocated. The locality harbours 25 spp., of which 4 are redlisted.

(14567) MUZÓN, J. & N. VON ELLENRIEDER, 1998. Revisión del género Perithemis Hagen en la Argentina (Odonata: Libellulidae). [*Resúmenes*] *4 Congr. argent. Ent.*, Mar del Plata, p. 62 [abstract only]. – (Second Author: 1030 Fondale St., Azusa, CA 91702-0821, USA).
For the full paper see *Odonatologica* 28 (1999): 385--398.

(14568) MUZÓN, J. & N. VON ELLENRIEDER, 1998. Revisión del subgénero Aeshna (Marmaraeschna) Calvert (Odonata: Aeshnidae). [*Resúmenes*] *4 Congr. argent. Ent.*, Mar del Plata, p. 61 [abstract only]. – (Second Author: 1030 Fondale St., Azusa, CA 91702--0821, USA).
For the full paper see *OA* 13975. An Engl. abstract has appeared in *Proc. 21st int. Congr. Ent.*, Foz do Iguazú, 2000, page not stated on the reprint.

(14569) VON ELLENRIEDER, N., 1998. Description of the last larval instar of Aeshna (Hesperaeschna) cornigera planaltica Calvert, 1952 (Odonata: Aeshnidae). [*Resúmenes*] *4 Congr. argent. Ent.*, Mar del Plata, p. 90 [abstract only]. – (1030 Fondale St., Azusa, CA 91702-0821, USA).
For the full paper see *OA* 13252.

(14570) VON ELLENRIEDER, N., 1998. Odonata del ecotono subtropical-pampásico. [*Resúmenes*] *4 Congr. argent. Ent.*, Mar del Plata, p. 91 [abstract only]. – (1030 Fondale St., Azusa, CA 91702-0821, USA).
For the full paper see *Odonatologica* 29 (2000): 17-30.

(14571) WANG, Z., 1998. Odonata. *In*: X. Shen & Z. Shi, [Eds], *The fauna and taxonomy of insects in Henan*, Vol. 2: *Insects of the Funiu Mountains region* (1), pp. 223-224, China Agric. Scientech Press, ISBN 7-80119--585-X. (Chin., with Engl. s.). – (Henan Acad. Sci., Zhengzhou-450003, China).
A checklist of 30 spp.

2000

(14572) KITOWSKI, I., 2000. Pokarm potomstwa błotniaka łakowego Circus pygargus w okresie postpisklecym na torfowiskach weglanowych pod Chełmem. – The food of Montagu's Harrier Circus pygargus in the post-fledging period on the carbohydrate peat bogs near Chelm. *In*: J. Łetowski, [Ed.], *Walory przyrodnicze Chełmskiego Parku Krajobrazowego i jego najbliższych okolic*, pp. 177-182, UMCS, Lublin, (Pol., with Engl. s.). – (Author's postal address not stated).
The voles (Microtus) and grasshoppers (Tettigonicidea) are the main food of young birds. The odon. represent 1.7% in their diet.

(14573) KOWALIK, W. & R. STRYJECKI, 2000. Makrofauna bezkregowców torfianek weglanowych Chełmskiego Parku Krajobrazowego ze szczególnym uwzglednieniem wodopójek (Hydracarina). – The invertebrate macrofauna of the Chelm Landscape Park peat-bog pools with special regard to the water mites (Hydracarina). *In*: J. Łetowski, [Ed.], *Walory przyrodnicze Chełmskiego Parku Krajobrazowego i jego najbliższych okolic*, pp. 165-176, UMCS, Lublin. (Pol., with Engl. s.). – (Authors' postal addresses not stated).
39 hydracarine spp. are listed from 3 peat bog pools in the said Landscape Park, SE Poland. 7.9% of odon. adults and larvae were parasitised; the host and the associated mite spp. are not stated.

(14574) MUZÓN, J. & N. VON ELLENRIEDER, 2000. *Estado de conservación de los Odonata en Argentina.* Fold. brochure, 6 pp. Fac. Cien. Nat. y Mus., Univ. La Plata. – (Second Author: 1030 Fondale St., Azusa, CA 91702-0821, USA).
General, on conservation status of the odon. fauna of Argentina. Out of the 14 fam., the representatives of 11 fam. (80% of Argent. spp.) occur in the protected areas. – For a more exhaustive paper on the subject. see *OA* 13128.

(14575) OERTLI, B., 2000. *Suivi du peuplement de libellules de la Haute-Seymaz (1997-1999): évaluation de l'impact des mesures de gestion (curage partiel, fauche alternée).* Pro Natura, Univ. Genève. 26 pp. – (Lab. Ecol. & Biol. Aquat., Univ. Genève, 18 ch. des Clochettes, CH-1206 Genève).
[Not available for abstracting.]

(14576) VAN DER GEEST, G.H., G.D. GREVE, A.

KROON, S. KUIJL, M.H.S. KRAAK & W. ADMIRAAL, 2000. Sensitivity of characteristic riverine insects, the caddisfly Cyrnus trimaculatus and the mayfly Ephoron virgo, to copper and diazinon. *Environ. Pollut.* 109: 177-182. – (Dept Aquatic Ecol. & Ecotox., Univ. Amsterdam, Kruislaan 320, NL-1098 SM Amsterdam).
In a graph, the acute toxicity of diazinon to Lestes congener, and that of copper to Zygopt. in general are indicated.

2001

(14577) BAE, Y.J., [Ed.], 2001. *The 21st century and aquatic entomology in East Asia.* [Proc. 1st Symp. Aquat. Entomologists E Asia], Korean Soc. Aquat. Ent., Seoul. viii+146 pp. ISBN none.
[Odonatol. papers:] *Tojo, K. & R. Machida*: Affinity of Ephemeroptera: a review of the proposed phylogenetic relationships of the major pterygote groups, the Ephemeroptera, Odonata, and Neoptera, based on comparative embryology (pp. 85-96); – *Nguyen, V.V., D.H Hoang, T.K.T. Cao, X.Q. Nguyen & Y.J. Bae*: Additional distribution of aquatic insects from Tam Dao National Park in northern Vietnam (pp. 123-133; Odon. pp. 126, 130).

(14578) BOTTGER, K., 2001. Biodiversität in einem naturnahen, mit einem Seeabfluss beginnenden Bach des Norddeutschen Tieflandes (Unterer Schierebseebach, Schleswig-Holstein): eine ökologisch kommentierte Zusammenstellung der bislang nachgewiesenen Pflanzen- und Tierarten. *Faun-ökol. Mitt.* (Suppl.) 30: 3-79. (With Engl. s.). – (Teichgarten 12a, D-38300 Wolfenbüttel).
On pp. 39-41, based on the works of Eb. Schmidt (*OA* 111) and A. Thomes (*OA* 6567), the odon. fauna (26 spp.) of the Lower Schierensee Brook (Schleswig-Holstein, N Germany) is described, analysed and discussed.

(14579) BROOK, J. & G. BROOK, 2001. *Dragonflies of Kent: an account of their biology, history and distribution.* Kent Field Club, Selling. ii+115 pp. 8 col. pls excl., softcover (14.5×20.5 cm). ISBN 0-950-1696-9-2. – (Orders to: J.S. Badmin, Coppice Place, Downwell, Perry Wood, Selling nr Faversham, Kent, ME13 9PR, UK).
An attractive book in the style of the British odon. regional field guides, covering 32 spp. These are here described, their distribution is mapped (distinguishing between the exuviae localities, probable breeding sites, and the places where the adults were recorded), and information is provided on habitats, reproductive behaviour, distribution, and flight periods. A list of the first and last dates of adult sightings (1980-1999), and the description of sites to visit will be most useful as well.

(14580) CATLING, P.M., 2001. Morphological evidence for the hybrid Enallagma ebrium × hageni (Zygoptera: Coenagrionidae) from Ontario. *Proc. ent. Soc. Ont.* 132: 99-101. – (2326 Scriven's Dr., R.R. 3, ON, K0A 2P0, CA).
A meticulous description and terminalia. Figs are provided of a ♂ from Burnside Pond, Ottawa, Ontario, Canada.

(14581) HUANG, D. & Q. LIN, 2001. The Early Cretaceous hemeroscopid larva fossils from Beijing, China. *Chin. Sci. Bull.* 46(17): 1477-1481. – (Nanjing Inst. Geol. & Palaeontol., Acad. sinica, 39 East Beijing Rd, Nanjing-210008, PRC).
More than 100 hemeroscopid larvae were discovered from the Lower Cretaceous in SW Beijing. These are assigned to the Libelluloidea, and show close evolutionary correlations with modern Libellulidae. Although the wing characters of adult Hemeroscopus from the same formation indicate a close relationship to the Aeschnoidea, it is suggested that the larvae and the adults are conspecific, therefore probably the evolutionary ancestors of Libellulidae. Hemeroscopus is the fundamental in discriminating between the Jehol and Lushangfle insect faunae.

(14582) [MURRAY, C.] ELLIOTT, V., 2001. Damsel comes to rescue of the dragonfly. *Times*, issue of 4 July.
A daily's interview with Miss C. Murray, entrusted by the BDS with the task of "persuading the public to cherish and nurture dragonflies".

(14583) MUZÓN, J., N. VON ELLENRIEDER & P. PESSACQ, 2001. Description of the last larval instar of Acanthagrion hildegarda (Odonata: Coenagrionidae). *Revta Soc. ent. argent.* 60(1/4): 95-98. (With Span. s.). – (Second Author: 1030 Fondale St., Azusa, CA 91702-0821, USA).
The final instar is described and illustrated from Argentina. It can be separated from the known congeners by the number of palpal and premental setae.

(14584) ŠALAMUN, A., 2001. Poročilo odonatološke

skupine. – [Report of the odonate research team]. *In*: A. Gergeli, [Ed.], *Raziskovalni tabor študentov biologije, Cerkno 2000*, pp. 14-20, Zveza za tehnično kulturo Slovenije, Ljubljana. ISBN 961-6243-25-X. (Slovene). – (CKFF, Zemljemerska 10, SI-1000 Ljubljana).
A commented list of 18 spp., recorded from 46 localities in the Cerkno area, Slovenia; not crossreferenced to the locality list.

(114585) VON ELLENRIEDER, N., 2001. Species composition and distribution patterns of the Argentinian Aeshnidae (Odonata: Anisoptera). *Revta Soc. ent. argent.* 60(1/4): 39-60. (With Span. s.). – (1030 Fondale St., Azusa, CA 91702-0821, USA).
10 gen. and 27 spp. are recorded from Argentina. For each a synonymic list and distribution data are provided, and the adults and known larvae are keyed. Distribution data per biogeographic province in Argentina are compared through cluster analysis. Specific and generic distribution patterns show that the richest areas are those of the subtropical forests encompassed by the Paranaense and Yungas biogeographic provinces, and that there are no Subantarctic endemics within Aeshnidae. Cluster analysis and complementarity values show that the Aeshnidae assemblage of the Monte biogeographic province is more closely related to that of Prepuna, Patagonian and Subantarctic provinces than to that of the Guyano-Brazilian provinces, supporting the existence of an Andean-Patagonian domain as proposed by Ringuelet.

(14586) WILDERMUTH, H., 2001. [Literatur] Sternberg, K. & R. Buchwald, [Hrsg.], Die Libellen Baden-Württembergs, Bd. 1 & 2. *Mitt. ent. Ges. Basel* 51(3/4): 142-144 – (Haltbergstr. 43, CH-8630 Rüti).
A comprehensive book review of the vols described in *OA* 12860 and 13613, with some background information.

2002

(14587) *ATROPOS*, No. 17 (Aug. 2002) ISSN none. – (c/o M. Tunmore, 36 Tinker Lane, Meltham, Holmfirth, W Yorks, HD9 4EX, UK).
[Odon. articles]: *InsectLine*: Migrant insect summary (mid-April to July 2002) (pp. 17-19); – *Murray, C.*: Dragonflies: ancient animals under threat (pp. 19-25); – *Ketelaar, R.*: Odonata in the Netherlands, 2001 (pp. 58-59); – *Goddard, D.*: Dragonfly conservation from the BDS (pp. 68-69).

(14588) *AUSTROLESTES*. Newsletter of the Australian Dragonfly Society, No. 6 (spring 2002; mailed 12 Febr. 2003). – (c/o D. Reeves, 30 Bremston Terrace, Herston, Qld 4006, AU).
The 4 page issue is this time devoted to bibliographic topics, viz.: *Endersby, I.D.*: Australian Odonata in the international literature (pp. 1-3; bibliography); – *Reeves, D.M.*: [a book and a CD review] (pp. 3-4).

(14589) BEDJANIČ, M., 2002. *Dragonflies of Sri Lanka in colour*. Bedjanič, Fram. 27 pp., 14 col. pls (75 figs) incl. ISBN none. Spiral binding (21.5×29.5 cm). – (Author & Publisher: Fram 117/A, SI-2313 Fram).
An attractive, concise introduction to the Odon. of Sri Lanka, this is only a trial edn of limited circulation. It includes a checklist (115 spp., the 53 endemics asterisked), and a brief analysis of the exploration status of the fauna, listing the taxa in which the opposite sex is unknown (14), those that are known from 10 or fewer adult specimens (27), those known only from 1-3 localities (30), those of which the larva remains undescribed (70), and taxa not seen for more than 50 yr (16). A chapter is devoted to the conservation problems (spp. and habitats), and col. portraits of 53 spp. are appended.

(14590) BEDJANIČ, M., 2002. Kačji pastirji. – [Dragonflies]. *In*: M. Vogrin, [Ed.], *Botanični vrt Tal 2000*, pp. 32-37, DPPVN, Rače. ISBN none. (Slovene). – (Fram 117/A, SI-2313 Fram).
A presentation of the dragonfly world of the Tal Botanical Garden, nr Rače, Styria, NE Slovenia, in a visitor's guide.

(14591) BEDJANIČ, M., 2002. Mladinski raziskovalni tabor Makole 2002: Entomološka skupina. – [Youth field research workshop 'Makole 2002': Entomology group]. *Leonardo* 4(12): 18. (Slovene). – (Fram 117/A, SI-2313 Fram).
Based at the village of Makole (SW Ptuj, Styria, Slovenia), the participants recorded 34 odon. spp. (30-VI/7-VII). Ophiogomphus cecilia, Cordulegaster heros and Sympetrum depressiusculum are mentioned.

(14592) BEDJANIČ, M., 2002. O kačjih pastirjih (Odonata). – On the dragonflies (Odonata). *In*: A. Gaberščik, [Ed.], *Jezero, ki izginja: monografija o Cerkniškem jezeru*, pp. 138-147, Društvo ekologov Slovenije, Ljubljana. ISBN 961-238-124-0. (Slovene, with Engl. s.). – (Fram 117/A, SI-2313 Fram).
An overview of the Lake Cerknica dragonfly world

(Inner Carniola, central Slovenia), with a commented checklist of 36 spp. The occurrence of Cercion lindenii is of particular regional interest.

(14593) BEDJANIČ, M., 2002. O kačjih pastirjih Pomurja in Goričkega. – [On the dragonflies of the Pomurje and Goričko districts]. *In*: A. Gogala, [Ed.], *Narava Slovenije: Mura in Prekmurje*, pp. 38-41, Prir. Muz. Slovenije, Ljubljana, ISBN 961-6367-05-6. (Slovene). – (Fram 117/A, SI-2313 Fram)
A general presentation of dragonfly life in this area, NE Slovenia. Among the noteworthy spp. are mentioned: Aeshna viridis, Gomphus flavipes (uncertain), Leucorrhinia caudalis, L. pectoralis, Sympetrum depressiusculum and S. pedemontanum. – (A comprehensive report of the associated exhibit in the Slovenian Mus. Nat. Hist., incl. a reference to A. viridis, by B. Hočevar, has appeared in *Delo* 44[280]:, p. 10; issue of 5 Dec. 2002).

(14594) BERNARD, R., P. BUCZYNSKY, A. ŁABEDZKI & G. TOŃCZYK, 2002. Odonata – Wazki. *In*: Z. Glowaciński, [Ed.], *Red List of threatened animals in Poland*, pp. 125-127, Inst. Ochr. Prir., Pol. Akad. Sci., Kraków. ISBN 83-901236-8-1. [With Suppl. and CD]. (Pol., with Engl. s's]. – (Second Author: Dept Zool., Inst. Biol., M. Curie-Skladowska Univ., Akademicka 19, PO-20-033 Lublin).
Out of the 72 spp. so far recorded in Poland, 16 spp. are listed in various categories, similar but not identic to those of the IUCN, viz. 2 CR, 3 EN, 2 VU, 2 NT, 5 LC, and 2 DD. Coenagrion scitulum (known from a single specimen) and a few of the southern migratory spp. are not considered. Out of the 7 Berne Convention spp., only 3 are redlisted in Poland, though only in low categories. The status of all these in Poland is considered favourable. Coenagrion armatum and C. ornatum are the 2 "critical spp.", and Nehalennia speciosa, Aeshna caerulea and Somatochlora alpestris are "endangered".

(14595) BORDON, J., R. VERNIER, B. BAL, R. LECOMTE & C. DELYRY, 2002. [Contribution à l'étude des populations d'insectes de quelques milieux intéressants du pied du Jura genevois. 1. La région de l'Etournel]: odonates observées à l'Etournel. *Bull. romand Ent.* 20(2): 106-107. – (First Author: Clarafond, F-74270 Frangy).
A checklist of 42 spp., recorded (2000) from a large wetland along the northern banks of the Rhone R., close to the Swiss border, France.

(14596) BUCHWALD, R. & F.-J. SCHIEL, 2002. Möglichkeiten und Grenzen Artenschutzmassnahmen in Mooren, dargestellt am Beispiel ausgewählter Libellenarten in Südwestdeutschland. *Telma* 32: 161--174. (With Engl. s.). – (First Author: INU, Hochsch. Vechta, Driverstr. 22, D-49377 Vechta).
Management measures are presented for Ceriagrion tenellum, Nehalennia speciosa and Leucorrhinia pectoralis, and the chances and limits of special management are discussed. It is emphasized, the fen conservation is not to be restricted to the protection of dynamic processes and abiotic resources; it has to account also for the particular species and species-group requirements.

(14597) BUCZYŃKSI, R. & E. SERAFIN, 2002. *Ważki Parku Krajobrazowego Pojezierza Ilawskiego.* – [*Dragonflies of the Ilawa Lake District Landscape Park*]. Zapól Parków Krajobrazowych, Jerzwald. 32 pp., 4 col. pls excl. Softcover (14.5×20.4 cm). ISBN 83-918023-6-1. (Polish). – (Publishers: PO-14-233 Jerzwald 67).
A well-composed field guide, directed at the visitors of the Park, giving a good introduction to the local dragonfly world (47 spp.). Information is provided on habitats and adult phenology of all spp., a pictorial key facilitates their identification (Polish and taxonomic nomenclature), and col. portraits of 16 spp. enhance the attractiveness of the booklet.

(14598) COSTA, J.M., A.N. LOURENCO & L.P. VIEIRA, 2002. Micrathyria pseudhypodidyma sp. n. (Odonata: Libellulidae), com chave das espécies do gênero que occorem no Estado do Rio de Janeiro. *Neotrop. Ent.* 31(3): 377-389. (Port., with Engl. s.). – (Mus. Nac., Quinta da Boa Vista, São Cristóvão, BR--20940-040 Rio de Janeiro, RJ).
The new sp. is described, illustrated and compared with M. hypodidyma Calv. Holotype ♂: Rio de Janeiro, Restinga de Marambaia, 1942; deposited at UFRJ. The congeners from the state of Rio de Janeiro are keyed.

(14599) DE KNIJF, G., A. ANSELIN & P. GOFFART, 2002. The Belgian Odonata Atlas Project: change and distribution. *Bull. Inst. r. Sci. nat. Belg.* (Suppl.) 72: 111-112. – (First Author: Inst. Nat. Conserv., Kliniekstraat 25, B-1070 Brussels).
Some of the results on the Atlas work are highlighted. Since 1990, all 10 km UTM grids were covered, and almost 65000 records are available (69 sp., 66 since 1990). Nehalennia speciosa and Leucorrhinia caudalis

are extinct; and Onychogomphus uncatus has not been seen in Belgium since 1980, while Gomphus flavipes was recently recorded. Some other spp. of interest and their occurrence are mentioned.

(14600) DIJKSTRA, K.-D.B., V.J. KALKMAN, R. KETELAAR & M.J.T. VAN DER WEIDE, [Eds], 2002. *De nederlandse libellen (Odonata).* – [*The Netherlands dragonflies (Odonata)*]. Naturalis, Leiden; KNNV, Utrecht & Europ. Invert. Surv. Ned., Leiden. 440 pp. numerous col. figs, graphs & maps incl. Hardcover (23.5×30.3 cm). ISBN 90-5011-154-8. [*Nederlandse Fauna* 4]. – Price: € 74.50 net. (Dutch, with chapter-wise and species-wise Engl. s's). – (Orders to: KNNV Uitgeverij, P.O. Box 19320, NL-3501 DH Utrecht).

This is a splendid and luxuriously produced handbook, covering almost all what is known on the Odon. of the Netherlands. Species-wise accounts (pp. 139-381) include comprehensive and bibliographically crossreferenced sections on habitat, biology, general range, national distribution (with maps), phenology (with graphs), and on conservational aspects. The bibliography includes almost 1000 titles. The first part of the book deals with general morphology, biology, behaviour, classification and nomenclature, with biotopes and habitats, conservation and management, etc. A key to the adults is also provided (pp. 61-84). – The first national treatment of the Netherlands odon. fauna was included in the work of J.A. Bonnet & G. van Oliver, 1825, *Natuurk. Verh. holland. Maatsch. Wet. Haarlem* 14: 1-521). The following are the main subsequent treatments: J.P. Herklots (1853, *Bouwstoffen voor een fauna van Nederland*, pp. 119-122, RMNH, Leiden), H. Albarda (1889, *Tijdschr. Ent.* 32: 211-226, 266-287), J. Jaspers (1899, *Levende Nat.* 3: 165-169), J. Heimans (1918, *ibidem* 23: 1-12, 41-53, 111), M.A. Lieftinck (1925, *Tijdschr. Ent.* 68: 61-174; 1926, *ibidem* 69: 85-226), D.C. Geijskes & J. van Tol (1983; see *OA* 4101), M. Wasscher et al. (1995; see *OA* 10331), and F. Bos & M. Wasscher (1997, 1998; see *OA* 11557 & 12515). In addition, the Netherlands Youth Federation for Study of Nature has produced since 1949 ca 20 edns (reprints incl.) of a number of identification booklets, by various authors. – A report on the public presentation of the book (ca 200 odon. workers attending), on 7-IX-2002, has appeared in *NieuwsBr. Europ. Invert. Surv. Ned.* 35(2002): 5-6; by M. van der Weide. A comprehensive book review was published in *NRC HandelsBl.* 33(41): 34; 16-XI-2002; by W. Köhler.

(14601) DOMMANGET, J.-L. & M. MASHAAL, 2002. Les libellules d'Outre-mer. *Insectes OPIE* 125: 8-10. – (First Author: 7 rue Lamartine, F-78390 Bois-d'Arcy).

The status of odon. fauna (number of spp./fam.) is stated for the French possessions of Saint-Pierre-et-Miquelon, Guadeloupe & Martinique, Guyane, La Réunion & Mayotte, New Calendonia, Wallis-et-Futuna, Polynésie française and for the Tahiti. The bibliography is not exhaustive.

(14602) ENDERSBY, I.D., 2002. The dragonflies of Norfolk Island, with the first record of Pantala flavescens (F.) (Odonata: Libellulidae). *Ent. mon. Mag.* 138: 241-246. – (56 Looker Rd, Montmorency, Vic. 3094, AU).

The collecting history of Norfolk Is. Odon. is traced since 1915. Agriocnemis vitiensis is considered a juvenile (not teneral) colour form of A. exsudans. This sp. and Ischnura aurora, Aeshna brevistyla, Hemicordulia australiae and Pantala flavescens seem to be well established on the island. The unvouchered Anax sp. and Diplacodes sp. are to be confirmed. The distribution within the Pacific of the spp. found on Norfolk Is. is shown in a table. The colonisation of the island is discussed, and the probability of facultative immigrants or wind-blown individuals is considered extremely small.

(14603) GASSMANN, D. & M. HAMALAINEN, 2002. A revision of the Philippine subgenus Risiocnemis (Igneocnemis) Hämäläinen (Odonata: Platycnemididae). *Tijdschr. Ent.* 145(2): 213-266. – (First Author: Naturalis, P.O. Box 9517, NL-2300 RA Leiden).

Descriptions and diagnoses of both sexes of all 15 previously recognized spp. are provided, and R. antoniae sp. n. and R. rubricercus sp. n. from northeastern Mindanao, R. pistor sp. n. from SE Mindanao and R. kaiseri sp. n. and R. nigra sp. n. from Samar are described. The ♀♀ of 11 sp. are described for the first time. Keys to ♂♂ and ♀♀ are provided. Based on extensive new collections from across the Philippine archipelago, the distribution of all spp. is mapped. Characters of the ♂ ligula and appendages and the ♀ prothorax were studied by scanning electron microscopy.

(14604) GILLOTT, C., 2002. Insect accessory reproductive glands: key players in production and protection of eggs. *In*: M. Hilker & T. Meiners, [Eds], *Chemo-*

ecology of insect eggs and egg deposition, pp. 37-59, Blackwell, Berlin-Vienna, ISBN 1-4051-0694-8. – (Dept Biol., Univ. Saskatchewan, 112 Science Pl., Saskatoon, SK, S7N 5E2, CA).
Collateral glands are primitively absent in ♂ Thysanura, Ephemeroptera, most Odon., Plecoptera and Dermaptera, and secondarily lost in many Diptera. Some Odon. coat their eggs with a gelatinous secretion produced by the collateral glands. This material, spulamine, swells on contact with water. Typically, ♀♀ of these oviposit on an underwater substrate. Embryonic development and even hatching may occur within the spumaline. – (See also the work listed in *OA* 3220.)

(14605) GOODERHAM, J. & E. TSYRLIN, 2002. *The waterbug book: a guide to the freshwater macroinvertebrates of temperate Australia.* CSIRO, Collingwood/VIC. viii+232 pp., ISBN 0-643-06668-3. – (Orders to: CSIRO Publishing, P.O. Box 1139, Collingwood, Vic 3066, AU).
The odon. are dealt with on pp. 161-179. A fam. key is provided for the larvae, and these are family-wise described, including paragraphs on their classification, distribution, habitats, ecology and 'natural history'.

(14606) [GORODKOV, K.B.] TANASIJTSHUK, V.N., V.A. TRJAPITZIN & B.V. NEKRASOV, 2002. Pamyati K.B.Gorodkova (1932-2001). – In the memory of K.B. Gorodkov (1932-2001). *Ent. Obozr.* 81(2): 514-519, portrait incl. (Russ., with Engl. title). – (Authors' addresses not stated).
A comprehensive obituary for the well-known Russian dipterologist, with his complete bibliography (1956--1998). His papers on the northern odon. occurrence (1956, *Ent. Obozr.* 35: 120-123), and on Pantala flavescens in the eastern Pamir (1961, *Zool. Zh.* 40: 610-611) have received much attention in the odonatol. world.

(14607) GÜNTHER, A., 2002. Erstnachweis von Ophiogomphus cecilia und Wiedernachweis von Gomphus vulgatissimus (Odonata: Gomphidae) im Regierungsbezirk Chemnitz. *Mitt. sächs. Ent.* 60: 3-6. – (Hauptstr. 12, D-09603 Grossschirma).
The adult and larval O. cecilia is brought on record from 6 sites (1995-2002), and G. vulgatissimus from 3 sites (2002) in the district of Chemnitz, E Germany. The habitats are described, and the circumstantial evidence is stated.

(14608) HOPKINS, W.G. & R.P. PRECKLETON, 2002. Declines in the numbers of amateur and professional taxonomists: implications for conservation. *Anim. Conserv.* 5(3): 245-249. – (First Author: Sch. Biol. Sci., Univ. Bristol, Bristol, BS8 1UG, UK).
To ensure the effective conservation of biodiversity, the species distribution needs to be accurately characterised and areas of high species richness located. For many taxa this can be achieved only by experienced taxonomists. Taxonomic research has a large imput from non-professional or amateur researchers. The decline of taxonomy and the number of taxonomists within the professional community has been widely publicized, but the trends in the activities of amateur taxonomists are unclear. Because amateurs contribute many valuable records of species occurrence this may have a disproportionate impact upon the information available for conservation planning and represents an underappreciated threat to conservation planning. The Authors use taxonomic research by UK entomologists in order to evaluate the changing role of both amateur and professional taxonomists. The contributions by British-based authors to *Ent. mon. Mag.* over the past century are reviewed. The results show that both amateur and professional taxonomy have undergone a long and persistent decline since the 1950s, in terms of both the number of contributors and the number of papers contributed. It is argued that the conservation community needs to help try and reverse the decline of taxonomy.

(14609) HUANG, F., J. CUI, Q. YE & W. XU, 2002. Odonata. *In*: F. Huang, [Ed.], *Forest insects of Hainan*, pp. 35-41, National Nat. Sci. Found. China, ISBN 7--03-010189-8. (Chin., with Engl. s.). – (First Author: Inst. Zool., Chin. Acad. Sci., Beijing-100080, China).
70 spp. are listed and keyed.

(14610) HUBER, A., T. KOVÁCS & A. AMBRUS, 2002. Adatok Északkelet-Magyarország Odonata faunájához. – Data on the Odonata fauna of North--East Hungary. *Fol. hist.-nat. Mus. matraensis* 26: 179--188. (Hung., with Engl. s.). – (First Author: Aggteleki Nemzeti Park, Igazgatóság, Tengerszem oldal 1, HU--3758 Jósvapô).
The 1997 and 2001 records are provided from the territory between the Hernád and Sajó rivers and the Slovakian border. 45 spp. are listed, of which Brachytron pratense, Leucorrhinia pectoralis and Sympetrum danae are of particular interest.

(14611) HUMAR, M., 2002. *Primerjava anatomskih znakov pri ličinkah vrst Somatochlora metallica (Vander Linden, 1825) in S. meridionalis Nielsen, 1935 (Odonata: Corduliidae).* – [*A comparison of larval structural features in Somatochlora metallica (Vander Linden, 1825) and S. meridionalis Nielsen, 1935 (Odonata: Corduliidae)*]. Essay "Ecology", Dept Biol., Univ. Ljubljana. 17 pp. (Slovene). – (c/o Dept Biol., Univ. Ljubljana, Večna pot 111, P.O. Box 2995, SI--1001 Ljubljana).
63 exuviae S. metallica (Alp Flix, Sur parish, Grisons, Switzerland) and 27 S. meridionalis (3 localities in Slovenia, 2 localities in Croatia) were examined. No morphological structure is absolutely reliable for the separation of the 2 spp. Fairly useful are the ratios: min./max. labium width, length lateral spines 9/8, length lateral spine 8/segment 8, and, above all, ratio between the length of lateral spine 9 and that of segment 9.

(14612) IKEDA, H. & H. KARUBE, 2002. [*Insects of Ogasawara Islands: Shimaakane*] (*Boninthemis insularis*). Shogakukan, Tokyo. 35 pp. [Natural Monuments of Japan, No. 16]. (Jap., with mostly taxonomic nomenclature). – (Second Author: Kanagawa Prefect. Mus. Nat. Hist., 499 Iryada, Odawara, Kanagawa, 250-0031, JA).
With emphasis on B. insularis, the publication deals with the 7 odon. spp. that are designated in Japan as "Natural Monuments", and with Indolestes boninensis. The latter does not enjoy this status, since it was assumed extinct at the time the legislation was promulgated.

(14613) INVERTEBRATE LINK [formerly Joint Committee for the Conservation of British Invertebrates], 2002. A code of conduct for collecting insects and other invertebrates. *Br. J. Ent. nat. Hist.* 15(1): 1--7. – (c/o R. Ent. Soc., 41 Queen's Gate, London, SW7 5HR, UK).
A revised and updated edn of the 1987 Code.

(14614) JENČIČ, S., M. BEDJANIČ, M. JEŽ, M. PLANJŠEK & J. GULIČ, 2002. *Naravovarstvene smernice za območje občine Mislinja.* – [*Nature conservation directives for the territory of Mislinja parish*]. ZVNKD, Maribor. 159 pp. (Slovene). – (Second Author: Fram 117/A, SI-2313 Fram).
The occurrence of Cordulegaster bidentata is stated for the Movžanka Stream, and that of Leucorrhinia dubia for the Lovrenško peat-bog, Pohorje Mts, Slovenia. This is the highest peat-bog in Slovenia (alt. ca 1520 m) and the southernmost one in Europe.

(14615) JUILLERAT, L., 2002. Emergence, mobilité et milieux de reproduction chez Orthetrum coerulescens (Odonata, Libellulidae) dans le Jura et le Jura bernois. *Nouvelles Cent. Suisse Cartogr. Faune* 24: 14. – (Inst. Zool., Univ. Neuchâtel, CH-2000 Neuchâtel).
Abstract of a M.Sc. dissertation of the Univ. Neuchâtel, Switzerland.

(14616) [JURZITZA, G.] GROENENDIJK, D., 2002 Libellengids. *Vlinders* 17(4): 29. (Dutch).
A critical book review of the work listed in *OA* 14093

(14617) KEIZER, G. / JANSEN, A., 2002. Libellendrama huismussenwerk?! – [Dragonfly drama the work of sparrows?!] *Natura*, Utrecht 99(4): 118-119. (Dutch). – (Authors' addresses not stated).
2 reader responses, triggered by the article listed in *OA* 14401, presenting various observations of sparrow predation on dragonflies in garden ponds.

(14618) KLAUSNITZER, B., 2002. Libellen jagen schwärmende Ameisen: eine ältere Literaturangabe (Odonata). *Ent. Nachr. Ber.* 46(2): 134. – (Lannerstr. 5, D-01219 Dresden).
With reference to his note listed in *OA* 14202, the Author is reproducing here R. Reichert's little known article on the same subject (1897, *Ent. Jb. Leipzig* 7: 190).

(14619) KNÖTZSCH, G., 2002. Das Auftreten mediterraner Libellenarten im Eriskircher Ried. *NatSchutz zwischen Donau u. Bodensee* 1: 37-42. – (Friedrichstr. 44, D-88045 Friedrichshafen).
A checklist of 45 spp. occurring in the Eriskircher Ried, Lake Constance, Baden-Württemberg, SW Germany is provided, and the local occurrence of, and field observations on Lestes barbarus, Aeshna affinis, Crocothemis erythraea, Sympetrum fonscolombii and S. meridionale are outlined.

(14620) KOVACS, T., A. AMBRUS & P. JUHASZ, 2002. Ephemeroptera and Odonata larvae from the river Ipoly (Hungary). *Fol. hist.-nat. Mus. matraensis* 26: 163-167. – (First Author: Matra Mus., Kossuth u. 40, HU-3200 Gyöngyös).
Records of 7 odon. spp. are provided from the Hungarian section of the Ipoly R.

(14621) KOVÁCS, T., A. AMBRUS & P. JUHÁSZ, 2002. Ephemeroptera, Odonata and Plecoptera larvae from the river Tisza in the year of cyanid pollution

(2000). *Fol. hist.-nat. Mus. matraensis* 26: 169-178. – (First Author: Matra Mus., Kossuth u. 40, HU-3200 Gyöngyös).
12 odon. spp. are listed, 4 of which are recorded for the Tisza R. for the first time.

(14622) KUIJER, E., 2002. *Libellen en insecticiden.* – [*Dragonflies and insecticides*]. Wetenschapswinkel Biologie, Univ. Utrecht, Utrecht. 34 pp. [Rep. P-UB-2002-01]. ISBN 90-5209-125-0, Price: € 9.50 net; – can be downloaded free at *http//www.bio.uu.nl/-wbu.* – (Publishers: Padualaan 8/Z 402, NL-3584 CH Utrecht).
An assessment is made of the risks to dragonfly life by various insecticides, in concentrations as used in the Netherlands. It is concluded, these are low; the insecticides may trigger some effect only locally, if applied during a prolonged period.

(14623) KUIJER, E. & D. GROENENDIJK, 2002. Libellen minder gevoelig voor de bestrijdingsmiddelen dan vlinders? – Are dragonflies less susceptible to pesticides than butterflies? *Vlinders* 17(4): 10-12. (Dutch, with Engl. s.). – (Authors' addresses not stated).
A concise summary of the work listed in *OA* 14622, with a review of 8 insecticides and their effects on some European and N. American odon. spp.

(14624) La *LETTRE DES SOCIÉTAIRES*, Société française d'odonatologie (ISSN 1260-0857), No. 27 (March 2002), No. 28 (June 2002), No. 29 (Sept. 2002), No. 30 (Dec. 2002). – (c/o J.-L. Dommanget, 7 rue Lamartine, F-78390 Bois-d'Arcy).
Management notifications, brief reports and various news items. – [28] includes a report on the 2002 Plenary Business Meeting and the 2001 Balance Account.

(14625) *LIBELLULA*. Zeitschrift der Gesellschaft deutschsprachiger Odonatologen (GdO) (ISSN 0723-6514), Vol. 21, No. 3/4 (Dec. 2002). (With Engl. s's). – (c/o Ms I. Schrimpf, Heimbühlstr. 32, D-72768 Reutlingen).
Petzold, F.: Beobachtungen zum Verhalten von Aeshna crenata und A. grandis an einem Gewässer in Westsibirien (Odonata: Aeshnidae) (pp. 79-100); – *Mauersberger, R. & F. Petzold*: Seen als Habitate für Onychogomphus f. forcipatus im Jungpleistozängebiet Nordost-Deutschlands (Odonata: Gomphidae) (pp. 101-144); – *Mauersberger, R., A. Bönsel & H. Matthes*: Anax parthenope in Seelandschaften entlang der Pommerschen Eisrandlage in Nordost-Deutschland (Odonata: Aeshnidae) (pp. 145-165); – *Petzold, F. & H. Wildermuth*: Massiver Wassermilbenbefall bei Cordulia aenea (Hydrachnida: Arrenurus; Odonata: Corduliidae) (pp. 167-173); – *Weihrauch, F.*: Ein Weibchen von Enallagma cyaghigerum als Unterwasser-Prädator der Grossen Weiderindenlaus (Odonata: Coenagrionidae; Homoptera: Lachnidae) (pp. 175-180).

(14626) LIN, Q.-B., A. NEL & D.-Y. HUANG, 2002. Phylogenetic analysis of the Mesozoic dragonfly family Liupanshaniidae (Insecta: Aeshnoptera: Odonata). *Cretaceous Res.* 23: 439-444. – (Second Author: Lab. Ent., Mus. Natn. Hist. Nat., 45 rue Buffon, F-75005 Paris).
The Chinese Lower Cretaceous genus Guyuanaeschnidia Lin, 1982, originally referred to the Aeshnidae, is redescribed and transferred to the Liupanshaniidae Bechly et al., 2001. A phylogenetic analysis of the family is presented.

(14627) LUCAS, M.J., 2002. *Spinning Jenny and Devil's darning needle.* Lucas, Huddersfield. viii+88 p. Paperback (14.6×20.6 cm). ISBN 0-9544035-09. Price: £ 9.60 net. – (Author & Publisher: 8 Camborne Dr., Fixby, Huddersfield, Yorks., HD2 2NF, UK).
An attractive book on anthropoodonatology, with the main chapters: "Folk names"(pp. 1-12), "Folklore, myth and legend" (pp. 13-20), "Literature, poetry and music" (pp. 39), "Illustrations, sculpture and carvings" (pp. 40--62), "Art nouveau" (pp. 63-64), "Religion" (pp. 65--66), "Food, medicine and decorations" (pp. 67-68), "Stamps" (pp. 69-76), and "Miscellaneous" (pp. 77--79). The Bibliography contains over 150 references. 25 col. illustrations (of high quality) enhance the value of the book. – The presented evidence from various fields is not exhaustive, but even so, the book gives a wealth of information. Some errors in the spelling/transliteration of some folk appellations are easy to correct. The book is warmly recommended to odonatologists and ethnologists alike.

(14628) MA, Z.-m., Z.-z. YANG & B.-y. MAO, 2002. A new record species of Aristocypha Laidlaw (1950) (Odonata: Libellaginidae) from China. [Sic!]. *Entomotaxonomia* 24(3): 170. (Chin., with Engl. title). – (First Author: Dali Medical Coll., Dali, Yunnan--67000, China).
A. hilaryae (Fraser), 2 ♀, locality not transliterated, alt. 1650 m, 26-VII-1998.

(14629) *MARTINIA*. Revue scientifique de la Société française d'odonatologie (ISSN 0297-0902), Vol. 18, No. 3 (Sept. 2002), No. 4 (Dec. 2002). (Mostly with Engl. s's). – (c/o J.-L. Dommanget, 7 rue Lamartine, F-78390 Bois-d'Arcy).

[No. 3:] *Couteyen, S. & M. Papazian*: Les odonates de la Réunion: élémentes de biogéographie et de biologie, atlas préliminaire, reconnaissance des espèces, synthèse bibliographique (pp. 79-106); – *Papazian, M.*: La collection d'odonates de monsieur Louis Bigot (p. 107--111; French Guiana, New Caledonia, Clipperton, Mayotte, Ivory Coast, Gabon Madagascar); – *Papazian, M. & M. Duquef*: Compte rendu de la mission odonatologique "Duquef 2000" en Guyane française (pp. 113-115); – *Papazian, M.*: Odonates nouveaux pour la Guyane française, 2 (Odonata: Coenagrionidae, Libellulidae) (p. 116); – Les odonates de Guyane française, 2: les Libellulidae: clé des genres (Odonata, Anisoptera) (pp. 117-132). – [No. 4:] *D'Amico, F.*: Le peuplement d'odonates d'une zone humide de montagne: la "torbière" de Piet (Pyrénés-Atlantiques, France) (pp. 135-145); – *Coupry, Y.*: Observation d'une attaque d'Anax imperator Leach, 1815 sur Cordulegaster boltonii (Donovan, 1807) (p. 146); – *Grand, D.*: Sur la distribution en Gascogne de Leucorrhinia albifrons (Burmeister, 1840) (Odonata, Anisoptères: Libellulidae) (pp. 147-152); – *Archimbaud, C. & B. Jourdain*: Gomphus graslinii (Rambur, 1842) découvert dans le Lot-et-Garonne et nouvelles données pour la Gironde et la Dordogne (Odonata, Anisoptera: Gomphidae) (pp. 153-156); – *Meurgey, F. & T. Williamson*: Contribution à l'étude de la faune des odonates de Guadeloupe: observation de Tholymis citrina (Hagen, 1876) et de Tramea insularis Hagen, 1861 (pp. 157-177); – *Dommanget, J.-L.*: Rubrique bibliographique (pp. 178-180).

(14630) MAY, M.L., 2002. Phylogeny and taxonomy of the damselfly genus Enallagma and related taxa (Odonata: Zygoptera: Coenagrionidae). *Syst. Ent.* 27(4): 387-408. – (Dept Ent., Rutgers Univ., Blake Hall, 93 Lipman Dr., New Brunswick, NJ 08901-8524, USA). Enallagma has been the subject of numerous behavioural and ecological studies, but phylogenetic relationships among spp. have been examined only within eastern N America, and even the composition and diagnosis of the genus are unclear on a world-wide basis. Most authorities currently recognize about 70 spp., comprising 2 major radiations, in NC America and Africa. This study, using morphological data, demonstrates that the N American and a few related palaearctic spp. form a monophyletic group that is quite distinct from the African spp. The latter are themselves divided into at least 3 and probably 4, separate clades, one of which may be related to E. parvum of India. Consequently, 3 of Kennedy's long disused genera, Africallagma, Amphiallagma and Proischnura are resurrected and 2 new genera, Azuragrion gen. n. (type sp.: Enallagma nigridorsum Sel.) and Pinheyagrion gen. n. (type sp.: Enallagma angolicum Pinhey) are established for the remaining African taxa. Finally, Enallagma is divided into 2 subgenera, Enallagma s.s., the typical "bluets", including many N American, holarctic and palaearctic spp., and Chromatallagma subgen. n. (type sp.: Agrion signatum Hag.) comprising a group of spp. of more variable colour that is confined to N America, the Caribbean and northernmost S America.

(14631) *MERCURIALE*. Zeitschrift der Schutzgemeinschaft Libellen in Baden-Württemberg (ISSN 1618--9124), No. 2 (Dec. 2002). – (c/o U. Stephan, Im Westengarten 12, D-7924 Ihringen).

Kunz, B. & H. Hunger: Editorial (p. 1); – Schiel, F.-J.: Entwicklungsnachweis von Lestes virens vestalis in der Oberrheinebene südwestlich von Baden-Baden (pp. 2-3); – *Heitz, A.*: Habitat und Eiablage von Coenagrion scitulum an einem Fundort in Ost-Frankreich (pp. 3-6); – *Feldwieser, G.*: Zu einer Beobachtung von Leucorrhinia rubicunda im Raum Reutlingen (pp. 6-7); – *Heitz, S.*: Libellen der Wiesenbäche und ihre Einbindung in bestehende Planungsinstrumente: am Beispiel von Coenagrion mercuriale (pp. 7-13); – *Klein, J.-P.*: Leucorrhinia pectoralis im Elsass (pp. 13--16); – *Weihrauch, F.*: Enallagma versus Vespula (pp. 17-18); – *Lissak, W.*: Neue Funde von Orthetrum brunneum im Lias-Vorland der Schwäbischen Alb (Lkr. Göppingen) (pp. 18-19); – *Westermann, K.*: Schlupf einer Gomphus vulgatissimus im August (pp. 20-21); – *Kunz, B.*: Zwei ungewöhnliche Larvenbeobachtungen von Gomphus vulgatissimus in der Jagst (pp. 21--22); – *Busch-Nowak, A.*: Schlupf einer Libellula depressa im Oktober (pp. 22-23); – *Koch, H.-M.*: Nachweis einer 2. Generation bei mehreren Libellenarten an einem neugeschaffenen Weiher bei Reutlingen (p. 23); – Drei Lestiden-Arten an einem künstlichen Tümpel auf der Alb in 705 m ü NN (p. 23); – *Kunz, B.*: Partnersuche mit Todesfolge: ein kurioser Zwischenfall im Paarungsvorspiel bei Onychogomphus f. forcipatus (p. 24); – *Hunger, H.*: "Keuschheitsgürtel": Uberreste eines Männchens verhinderen weitere Paarung eines Weibchens von Ischnura elegans (p. 25); – *Feldwieser, G.*: Doppelter Irrtum: Männchen

von Lestes viridis ergreift Männchen von Enallagma cyathigerum (p. 25); – Paarungsrad von Aeshna cyanea benutzt anderes Paarungsrad der gleichen Art als Sitzunterlage (p. 26); – *Bramati, J.*: Vergnügungssüchtige Libellen: was treibt Männchen von Calopteryx splendens in eine Riesenrutsche? (p. 26); – *Phänologische Daten* (pp. 27-29); – *Vereinsnachrichten* (pp. 30-35).

(14632) MERMOD-FRICKER, F., 2002. Bibliographie concernant la faune entomologique suisse, 2000. *Bull. romand Ent.* 20(2): 119-129. – (CSCF, Terreaux 14, CH-2000 Neuchâtel).
Includes 3 odonatol. titles.

(14633) MEURGEY, F., 2002. Contribution à la connaissance des odonates de la Guadeloupe (Antilles Françaises): signalement de Tholymis citrina (Hagen, 1876) et résultats des prospections 2001. *Bull. Soc. Sci. nat. Ouest Fr.* (N.S.) 24(3): 135-145. (With Engl. s.). – (Mus. Hist. Nat., 12 rue Voltaire, F-44000 Nantes).
The results of an odon. survey in Guadeloupe Is., Lesser Antilles (Dec. 2001-Jan. 2002) are reported; 13 localities are described and mapped, and 16 spp. (of which T. citrina is recorded for the first time) are listed. So far, 31 spp. were recorded from the island.

(14634) MEURGEY, F., 2002. Nouveau site de reproduction pour Gomphus vulgatissimus (Linné, 1758) en Loire-Atlantique (Odonata, Gomphidae). *Bull. Soc. Sci. nat. Ouest Fr.* (N.S.) 24(4): 215-217). (With Engl. s.). – (Mus. Sci. Nat., 12 rue Voltaire, F-44000 Nantes).
La Sèvre nr de Clisson is reported as a new reproduction site of the sp. in the Loire-Atlantique, France. The locality is described and information on the occurrence of the sp. in the department is provided.

(14635) MONNERAT, C., 2002. Lestes barbarus (Fabricius, 1798) (Odonata: Lestidae) en Suisse: indigène ou hôte irregulier? *Bull. Soc. neuchâtel. Sci. nat.* 125: 77-91. (With Engl. & Germ. s's). – (CSCF, 14 rue des Terreaux, CH-2000 Neuchâtel).
All the known information (1846-1998) on the occurrence of L. barbarus in Switzerland is reviewed and assessed, and it is concluded the sp. is to be considered as an irregular guest in that country only.

(14636) [MOORE, N.W.] CLARIDGE, M. & J. THOMAS, 2002. Marsh Award Dr Norman W. Moore. *Antenna* 26(4): 238-239, portrait incl. – (c/o Dr N.W. Moore, Farm House, 117 Boxworth End, Swavesey, Cambridge, CB4 5RA, UK).
Dr N.W. Moore has recently been honoured by the Royal Entomological Society with a Honorary Membership and with the Marsh Entomological Award for Insect Conservation, of which he is the first recipient.

(14637) MOROZ, M.D., M.V. MAKSIMENKOV, S. CHAKOROVSKI & P. BUCZYŃSKI, 2002. Rezul'taty issladovaniya vodnyh nasekomyh (Insecta: Collembola, Ephemeroptera, Odonata, Trichoptera, Heteroptera, Coleoptera) biologicheskogo zakaznika 'Sporovskiy'. – Results of the investigation of aquatic insects [...] of the biological reserve 'Sporovski'. *Prir. Resursy/Nat. Resources* 2002(2): 88-94. (Russ., with Beloruss. & Engl. s's). – (Last Author: Dept Zool., Inst. Biol., M. Curie-Skladowska Univ., Akademicka 19, PO-20-033 Poznan).
11 odon. spp. are listed from the Reserve (Belarus). Nehalennia speciosa is considered of particular interest.

(14638) MUSTOV, S.E., 2002 Biological monitoring of rivers in Thailand: use and adaptation of the BMWP score. *Hydrobiologia* 479: 101-229. – (3 Falcon Close, Otley, W. Yorks, LS21 3EG, UK).
10 odon. taxa are (family-wise) listed from 23 (specified and described) sites on the Ping R. system, N Thailand; Dec. 1990-Sept. 1993.

(14639) MUZLANOV, Yu.A., 2002. Hronologicheskaya dinamika haraktera raspredeleniya anomaliy zhilkovaniya kryl'ev strekozy krasotki blestyas blestyashchey (Calopteryx splendens Harr.) vo vnutripopulyacionnyh gruppirovkah. – [Long-term dynamics in the occurrence of wing venation anomalies in intra-population groups of Calopteryx splendens Harr.]. *Ekologiya* 2002(3): 209-214. (Russ.). – (Zarevskaya srednyaya shkola, RUS-391727 Zarya, Ryazan distr.).
A long-term correlation analysis of ♂ wing photographs from the Ranova R., Ryazan distr., Russia reveals that some anomalies appear in addition to the normal veins, while the others are replacing the normal venation. Interestingly, there are significantly more anomalies in the even-yr generations than in the odd-years. This pheomenon is tentatively ascribed to the increased radiation, following the Chernobyl Atomic Plant accident in 1986. It is concluded that wing venation anomalies are likely to represent a better feature for the assessment of ontogenetic stability than, e.g. the level of fluctuating asymmetry and the general phenotypic dispersal.

(14640) *NIEUWSBRIEF VAN DE NEDERLANDSE VERENIGING VOOR LIBELENSTUDIE* (ISSN 1387--4470, Vol. 6, Nos 3 (Sept. 2002), 4 (Dec. 2002). (Dutch). – (c/o R. Manger, Stoepveldsingel 55, NL--9403 Assen).
[Selected articles:] [No. 3:] *Corbet, P.S.*: European meeting of the Worldwide Dragonfly Association (WDA) in Leiden (p. 4); – *van Dissel, E.*: An impression from the N.V.L. field trip to the Linde-Valley, Friesland (15 June) (p. 5); – *Niemeijer, I.*: Report on the N.V.L. field trip to Achterhoek-Germany, 5-7 July 2002 (pp. 6-7); – *Kop, A.*: Report on the WDA Symposium in Leiden, 1-2 June 2002 (p. 7); – *Brief notes from the web* (pp. 8-11; 20 authors). – [No. 4:] *Manger, R.*: Three years of dragonfly monitoring in the Zwanenwater, 1999-2001 (p. 8-11); – *Ruiter, E.*: Die Winterreise (pp. 11-12; outline of a research project on Sympecma paedisca hibernation); – *Wasscher, M.*: On an Ischnura elegans exuviae in the upside down position (p. 13); – *Brief notes from the web* (pp. 14--16; 17 authors).

(14641) NISHIDA, T., 2002. Chlorogomphus b. brunneus Oguma makes egg-masses at the time of its oviposition. *Gekkan-Mushi* 371: 37-39. (Jap., with Engl. title). – (4-80-2-101, Shuritorihori-cho, Naha, Okinawa, 903-0805, JA).
[Abstract not available.]

(14642) NISHIDA, T., 2002. Larval habitat of Chlorogomphus okinawensis Ishida. *Gekkan-Mushi* 377: 9-11. (Jap., with Engl. title). – (1-50-1-201, Chuo, Chuo, Nakano-kui, Tokyo, 164-0011, JA).
[Abstract not available.]

(14643) NOVELO-GUTIÉRREZ, R., 2002. Descripción de las larvas de Perithemis intensa Kirby, 1889 y P. domitia (Drury, 1773), con notas sobre otras larvas del genero en México (Odonata: Anisoptera: Libellulidae). *Folia ent. mex.* 41(3): 321-327. (With Engl. s.). – (Depto Ent., Inst. Ecol., A.C., Aptdo Postal 63, MX--91000 Xalapa, Veracruz).
With the description of these 2 spp., the larvae of all Mexican representatives of the genus have become known. The larva of P. intensa is most stout and has a larger number of palpal setae than any other described congener, that of P. domitia appears the most melanic. The lateral border of prementum is considered a new generic diagnostic feature.

(14644) PETRULEVIČIUS, J.F. & A. NEL, 2002. A new libelluloid dragonfly from Late Paleocene deposits in Argentina (Odonata: Italoansida). *Eur. J. Ent.* 99(4): 485-489. – (Lab. Ent., Mus. Nac. Hist. Nat., 45 rue Buffon, F-75005 Paris).
Jujusia maizgorda gen. n., sp. n. is described from the Maiz Gordo Formation, NW Argentina. Its affinities within the clade Cavilabiata Bechly are discussed.

(14645) RAMAKRISHNA [no initials], 2002. Fauna of Kabar Lake: Insecta: Odonata. *Wetland Ecosyst. Ser. zool. Surv. India* 4: 65-67. – (Zool. Surv. India, M--Block, New Alipore, Calcutta-700053, India).
6 common spp.; geographical location of the lake is not stated; India.

(14646) RUEDA, J., A. CAMACHO, F. MEZQUITA, R. HERNÁNDEZ & J.R. ROCA, 2002. Effect of episodic and regular sewage discharges on the water chemistry and macroinvertebrate fauna of a Mediterranean stream. *Water Air Soil Pollut.* 140 (1/4): 425-444. – (Second Author: Dept Microbiol. & Ecol., Univ. Valencia, Burjassot, Spain).
The effects were investigated in the Magro R., E Spain. The application of TWINSPAN to invertebrate assemblages resulted in 3 main groups of samples. Group A1 mainly included samples from stations located far from the main sewage discharges; BMWP' indices corresponded to low-level pollution or clean waters. Calopteryx splendens and C. haemorrhoidalis are among the taxa that may be proposed as indicators of high water quality. In the remaining groups, no odon. are listed.

(14647) SABO, J.L. & M.E. POWER, 2002. Numerical response of lizards to aquatic insects and short-term consequences for terrestrial prey. *Ecology* 83(11): 3023-3036. – (First Author: Dept Biol., Arizona St. Univ., P.O. Box 871501, Tempe, AZ 85287-1501, USA).
Experiments with reduced (−) and ambient (+) subsidies in Mendocino Co., California have shown that relative changes in lizard (Sceloporus occidentalis) abundance in −subsidy and +subsidy treatments were consistent with relative odon. abundance (e.g. Archilestes, Ophiogomphus), which represent one of the lizard's most common prey types (ca 20% by biomass).

(14648) ŠALAMUN, A., 2002. Poročilo odonatološke skupine, RTSB Semič 2001. – [Biology students' research camp Semič 2001: report of the Odonata group]. *In*: G. Planinc & P. Presetnik, [Eds],

Raziskovalni tabor študentov biologije Videm pri Ptuju 2002, pp. 65-67, Soc. Studiosorum Biol. Univ. labacensis, Ljubljana, ISBN 961-91041-0-2. (Slovene). – (CKFF, Zemljemerska 10, SI-1000 Ljubljana).
A commented list of 34 spp. from 44 localities (2001, no date) in White Carniola, S Slovenia. The localities are not stated.

(14649) SCHULZ, R., G. THIERE & J.M. DABROWSKI, 2002. A combined microcosm and field approach to evaluate the aquatic toxicity of azinphosmethyl to stream communities. *Environ. Toxicol. Chem.* 21(10): 2172-2178. – (First Author: Zool. Inst., Techn. Univ., Fasanenstr. 3, D-38092 Braunschweig).
The potential effects of this organophosphate insecticide in a combined microcosm and field approach (Lourens R., S Africa) are evaluated. The 2 strongest treatments (concentrations 19.2 and 4.9 µg/l) resulted in a significantly reduced invertebrate density, but Aeshna sp. remained uneffected.

(14650) SENEGAČNIK, A., S. KALIGARIČ, M. JEŽ, M. BEDJANIČ, M. PLANJŠEK & J. URBANEK, 2002. *Naravovarstvene smernice za območje občine Majšperk.* – [*Nature conservation directives for the territory, of Majšperk parish*]. ZVNKD, Maribor. 80 pp. (Slovene). – (c/o M. Bedjanič, Fram 117/A, SI-2313 Fram).
35 odon. spp. are said to occur in the Medvedce area (a list is not provided), Cordulegaster heros is mentioned for the Vondušek Brook, Ophiogomphus cecilia for the Dravinja R., and Sympetrum depressiusculum and S. pedemontanum (incidentally also Hemianax ephippiger) are stated for Medvedce lake; – SE Slovenia.

(14651) SOESBERGEN, M., P. DUIJN, D. TEMPELMAN & W. TUKKER, 2002. Het belang van natuurvriendelijke oevers van kanalen voor libellen. – The importance of nature-friendly canal banks for dragonflies. *Vlinders* 17(4): 14-17. (Dutch, with Engl. s.). – (Authors' addresses not stated).
The effect of the nature-friendly banks of the Twente canal (Overijssel prov., the Netherlands) on dragonflies are outlined, based on the 2001 monitoring. Along such banks, 91 individuals of 8 spp. were recorded, as to only 5 individuals of 3 spp. that were sighted at the traditional banks of the same canal. Reproduction occurred only along nature-friendly banks, as opposed to the traditional banks, where no larvae were found.

(14652) SWITZER, P.V., 2002. Territory quality, habitat selection, and competition in the Amberwing Dragonfly, Perythemis tenera (Say) (Odonata: Libellulidae): population patterns as a consequence of individual behavior. *J. Kans. ent. Soc.* 75(3): 145-157. – (Dept Biol. Sci., Eastern Illinois Univ., Charleston, IL 61920, USA).
Basic habitat selection theory predicts that individuals will prefer relatively high quality habitats over low quality habitats. This preference may affect settlement patterns, with higher quality habitats being occupied first and more frequently. If locations vary in quality and good locations are limited, individuals may compete for the best locations rather than settle in lower quality sites. Thus, any factors which influence the number of individuals in an area may potentially affect patterns of habitat occupation. In this study, these ideas were tested, using the setlement and fighting patterns of the territorial P. tenera. ♀ ♀ consistently arrived later and departed earlier than ♂ ♂. ♂ and ♀ arrival and ♂ departure were correlated with temperature, with earlier arrivals and later departures on warm days. More ♂ ♂ were present at the pond as the summer progressed and on warmer days, but the number of ♀ ♀ was not related to date or temperature. The amount of fighting for territories increased as the number of ♂ ♂ increased. Individuals tended to occupy high quality sites (i.e., sites with a higher number of matings per min occupied) first within a day, and were more likely to occupy low quality sites when the number of ♂ ♂ on the pond was relatively high. The locations that were occupied first during a day were of relatively higher quality and more likely to be occupied by site-faithful ♂ ♂ (i.e. ♂ ♂ returning to their previous day's location) than those occupied later in the day. Finally, higher quality sites were occupied more often, had more fighting on them, and had a higher proportion of escalated fights than lower quality sites. These results indicate that patterns of competition and habitat occupation are a result of relationships among local breeding population size, individual behaviour (e.g., preference for sites and reaction to environmental conditions), and habitat availability and quality.

(14653) TAKASAKI, Y., 2002. Ecological notes on Tanypteryx pryeri at the proposed site of Aichi World Exposition. *Gekkan-Mushi* 377: 36-41. (Jap., with Engl. title). – (1-14,Fijimori, Meitô-ku, Nagoya-shi, Aichi, 465-0026, JA).
[Abstract not available.]

(14654) *TOMBO, ACTA ODONATOLOGICA JAPONICA* (ISSN 0495-8314), Vol . 45, No. 1/4 (30 Nov. 2002). (Jap., with Engl. titles & s's). – (c/o Dr S. Eda, 3-4-25 Sawamura, Matsumoto, Nagano, 390--0877, JA).

Eda, S.: Copulation of Euphaea yayeyamana (cover phot.); – A correction and some considerations of the records concerning numerous occurrence of Anax guttatus (Burmeister) in Japan, 1999 (pp. 1-6); – *Karube, H.*: Two new species of the genus Planaeschna (Odonata: Aeshnidae) from central Vietnam (pp. 7-11; P. owadai sp. n., P. bachmaensis sp. n.); – *Yokoi, N.*: Description of new Boyeria species from central Laos (Anisoptera: Aeshnidae) (pp. 12-14; B. karubei sp. n.); – *Kawashima, I.*: Description of the larva of aeshnid dragonfly Sarasaeschna niisatoi (Karube, 1998) (Aeshnidae: Gomphaeschninae) from northern Vietnam (pp. 15-19); – *Eda, S.*: A hybrid male supposed between Sympetrum e. eroticum and S. baccha mutatinum (p. 20); – *Kano, K. & N. Yokoi*: Observations in Laos on the reproductive behavior of a Macro-mia sp. allied to M. urania (pp. 21-22); – *Yokoi, N. & L. Kano*: Odonata collected in Lak Sao and its neigh-bouring regions, central Laos, in spring (pp. 23-26); – *Kano, K. & T. Miyahata*: So many victims in Sympetrum frequens floating on the water surface (pp. 27--28); – *Futahashi, R. & H. Futahashi*: The first record of the migrant Sympetrum vulgatum imitans from Japan (pp. 29-30); – *Futahashi, R., H. Futahashi & Y. Araki*: Recent findings concerning Odonata in the Hokuriku district, pt 2 (pp. 31-32); – *Taketo, A.*: Transition of odonate fauna in the artificial ponds in Yuhidera, Kanazawa: situation in the 9th year (pp. 33-35); – *Eda, S.*: Annual meeting of the Japanese Society for Odonatology in 2002 (p. 35); – *Kojo, T.*: On the nocturnal roosting in Orthetrum albistylum speciosum (pp. 36-38); – *Miyagawa, T.*: A new record of Trithemis aurora from Kumamoto pref., Kyushu (p. 39); – *Ishikawa, H.*: A new record of Ictinogomphus pertinax (Selys) from Kanagawa pref. (p. 40).

(14655) VAN DEN TOP, I.M., A. VAN DEN BERG & H.F. STORTELDER, 2002. Report on Filipino--Dutch cooperation Biodiversity Research Programme Mount Malindang. *Alterra Rep.* 490: 1-41. – (Alterra, P.O. Box 47, NL-6700 AA Wageningen).

A report on the results of the 2002 mission of Dutch scientists (14-24 Jan.), dealing mainly with policies and vegetation research; – Mt Malindang, Mindanao, the Philippines. The odon. research is conducted by *Dr J. van Tol* (Naturalis, P.O. Box 9517, NL-2300 RA Leiden).

(14656) VIRBICKAS, J. & V. PLIURAITE, 2002. The species composition of macrozoobenthos in small Lithuanian rivers. *Acta zool. lithuan.* 12(3): 254-264. (With Lithuan. s.). – (Inst. Ecol., Akademijos 2, LIT-2600 Vilnius).

4 odon. spp. are reported from 5 (out of the 12) rivers studied during 1996-2001. Among these, Calopteryx splendens is frequent, while larval Epitheca bimaculata is considered very rare, encountered in the Bražuolė R. only.

(14657) VON ELLENRIEDER, N., 2002. A phylogenetic analysis of the extant Aeshnidae (Odonata: Anisoptera). *Syst. Ent.* 27(4): 437-467. – (Ent. Sect., Nat. Hist. Mus. Los Angeles Co., 900 Exposition Blvd, Los Angeles, CA 90007, USA).

A cladistic analysis, based on 58 characters of adult and larval anatomy is presented. The ingroup taxa include all the extant Aeshnidae genera, and the austropetaliid genera Phyllopetalia and Hypopetalia were chosen as the outgroup. The strict consensus tree obtained after successive weighting shows that subgroups defined traditionally for Aeshnidae are paraphyletic or polyphyletic. The previous reclassification derived from analysis based on wing venation is supported in terms of the monophyly of Aeshnidae, Gomphaeschninae and its sister group comprising the remaining Aeshnidae.

(14658) VON ELLENRIEDER, N. & J.M. COSTA, 2002. Aeshna brasiliensis sp. nov. (Odonata: Aeshnidae) from south and southeastern Brazil, with a redescription of its larva. *Neotrop. Ent.* 31(3): 369-376. (With Port. s.). – (First Author: Ent. Sect., Nat. Hist. Mus. Los Angeles Co., 900 Exposition Blvd, Los Angeles, CA 90007, USA).

Holotype ♂: Rio Grande do Sul, Rio Tainha, alt. 900 m, 20-I-1959; deposited in MNRJ. The new sp. resembles A. variegata and A. peralta in colour pattern of head and abdomen, but differs from them in thoracic colour pattern and in shape of cerci. The larva uniquely differs from all other known Brasilian congeners by lacking lateral spines on abdominal segment VI.

(14659) WELDT, S., 2002. Poročilo odonatološke skupine. – Biology students' research camp in Videm nr Ptuj 2002: report of the Odonata group. *In*: G. Planinc & P. Presetnik, [Eds], *Raziskovalni tabor študentov biologije Videm pri Ptuju 2002*, pp. 32-36, Soc. Studiosorum Biol. Univ. labacensis, Ljubljana, ISBN 961-91041-0-2. (Slovene, with Engl. s.). – (Delavska

26, SI-2215 Ceršak).
A commented list of 39 spp., recorded from 69 localities (July 2002) in Haloze and the Drava lowlands, E Slovenia. The localities are not stated.

(14660) WESTERMANN, K., 2002. Die Abundanz schlüpfender Libellen in einem südbadischen Altrheingebiet. *NatSchutz südl. Oberrhein* 3(2): 215--244. (With Engl. s.). – (Buchenweg 2, D-79365 Rheinhausen).
During 1994 and 1997-2001, ca 192,000 exuviae, pertaining to 34 spp., were collected along 2 collateral stream sections of the Rhine R. nr Weisweil (Emmendingen Co., Baden-Württemberg, SW Germany). The evidence is meticulously, sp.-wise analysed with reference to abundance within particular niches, and the appreciable differences between odon. communities of different stream sections are emphasized.

(14661) WESTERMANN, K., 2002. Phänologie der Emergenz bei der Gemeinen Weidenjungfer (Chalcolestes viridis) an südbadischen Altrheinen. *NatSchutz südl. Oberrhein* 3(2): 201-214. (With Engl. s.). – (Buchenweg 2, D-79365 Rheinhausen).
Along the collateral streams of the Rhine R. nr Weisweil (Emmendingen Co., Baden-Württemberg, SW Germany), the earliest emergence of C. viridis took place on 23-VI-1998. Usually it commenced in late July and ceased by ca 20 Sept. During the early emergence period, sex ratio was in favour of ♀♀, but in total more ♂♂ than ♀♀ have emerged. The observations are based on ca 38,000 exuviae, collected systematically during 1994 and 1997-2001.

(14662) WESTERMANN, K., 2002. Zur Phänologie der Emergenz bei der Gebänderten Prachtlibelle (Calopteryx splendens) an südbadischen Altrheinen. *NatSchutz südl. Oberrhein* 3(2): 193-200. (With Engl. s.). – (Buchenweg 2, D-79365 Rheinhausen).
Along the old collateral streams of the Rhine R. in S Baden, the emergence of C. splendens lasts until late Aug. or early Sept., i.e. at least 6 weeks longer than so far published for the state of Baden-Württemberg, SW Germany. High floods and rainfall shortly prior to emergence probably lead to considerable temporal shifts in the emergence and to losses in the population.

(14663) WESTERMANN, K. & E. WESTERMANN, 2002. Das Grosse Granatauge (Erythromma najas) am Schlüchtsee: erster Bodenständigkeitsnachweis für den Schwarzwald. *NatSchutz südl. Oberrhein* 3(2): 189--192. (With Engl. s.). – (Buchenweg 2, D-79365 Rheinhausen).
A large E. najas population was discovered at lake Schlüchtsee (Waldshout Co., S Black Forest), alt. 914 m. This is the first evidence of its reproduction in the Black Forest, and the highest elevation for this sp. in Germany.

(14664) WILCOX, D.A., J.E. MEEKER, P.L. HUDSON, B.J. ARMITAGE, M.G. BLACK & D.G. UZARSKI, 2002. Hydrologic variability and the application of Index of Biotic Integrity metrics to wetlands: a Great Lakes evaluation. *Wetlands* 22(3): 588-615. – (First Author: U.S. Geol. Surv., Great Lakes Sci. Cent., 1451 Green Rd, Ann Arbor, MI 48105, USA).
Based on data from the Great Lakes coastal wetlands, an Index of Biotic Integrity (IBI) is developed and evaluated.

(14665) WOODWARD, G. & A.G. HILDREW, 2002. The impact of sit-and-wait predator: separating consumption and prey emigration. *Oikos* 99(3): 409--418. – (First Author: Dept Zool. & Anim. Ecol., Univ. Coll. Cork, Ireland).
Review of the impact of invertebrate predators in enclosure/exclosure experiments suggest that much of the apparent depletion of prey is due to prey emigration induced by the predators. However, these generalisations derive mainly from studies of invertebrate predators that are predominantly active searchers (usually stoneflies) and of prey with strong avoidance responses (mainly mayflies). Here, the impact was examined of a large sit-and-wait predator, the larval Cordulegaster boltonii, which has recently invaded Broadstone Stream, SE England as a new top predator. Field enclosure/exclosure experiments were conducted to assess the impact of the invader on the benthos. Depletion of prey varied seasonally and among taxa, and was highest when prey density and encounter rates were high. Mobile prey, although least likely to show a statistically significant response because of high exchange rates, were those most strongly depleted. Experimental channels were used to separate the relative contribution of consumption and emigration to total impact for the 2 most depleted prey spp. Depletion of prey was due solely to consumption and predators did not induce emigration. Caution is urged in making generalisations about the impacts of invertebrate predators, since sit-and-wait and searching

predators potentially have very different impacts.

(14666) YAKOVLEV, V.A., 2002. Etologicheskaya struktura presnovodnyh bentosnyh i nektobentosnyh soobshchestv i ee izmeneniya pod vliyaniem abioticheskih i antropogennih faktorov. – [Changes in composition of various behavioural types in benthic and nectobenthic freshwater communities under the influence of abiotic and anthropogenic factors]. *Ekologiya* 2002(4): 286-290. (Russ.). – (Inst. Ecol. Natural Systems, Acad. Sci. Tatarstan, Ul. Daurskaya 28, RUS-420087 Kazan').
The odon. are classified as "burrowers" (Gomphidae, Libellulidae) and "climbers" (Aeshnidae, Coenagrionidae). In the small lakes and streams in Murmansk distr. (Russia), NE Norway and Finland, the eutrophication and thermal pollution trigger their disappearance from the aquatic community concerned.

(14667) YAMAMOTO, Y., 2002. Notes on the geographical distribution of Platycnemis foliacea sasakii Ashina (Odonata, Platycnemididae) in the Shima peninsula, Mie, Japan. *Gekkan-Mushi* 379: 40--43. (Jap., with Engl. title). – (Nijigaoka 2-7-6-704, Meitô-ku, Nagoya-shi, Aichi, 465-0078, JA).
[Abstract not available.]

(14668) ZUELLIG, R.E., P.M. PINEDA & B.C. KONDRATIEFF, 2002. Aquatic insects of a High Plains spring: Warm Springs, Guersney, Wyoming. *J. Kans. ent. Soc.* 75(3): 163-171. – (First Author: Dept Fish. & Wildl. Biol., Colorado St. Univ., Fort Collins, CO 80523, USA).
Warm Springs, nr Guersney/WY (alt. 1372 m) have a mean annual water temperature of 21°C, while the recorded average in the area amounts to 17.5°C. 9 odon. spp. were recorded. The assemblage is discussed with reference to the paper listed in *OA* 8507.

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(14669) BEDJANIČ, M. & M. VOGRIN, 2003. Krajinski park Rački Ribniki-Požeg, naravni biser med Pohorjem in Dravo. – Landscape Park Rački Ribniki--Požeg, a natural jewel between the Pohorje mountains and the Drava. *Proteus, Ljubljana* 65(5): 215-225, 238. (Slovene, with Engl. s.). – (First Author: Fram 117/A, SI-2313 Fram).
Out of the 49 recorded odon. spp., the threatened Ophiogomphus cecilia, Sympetrum danae, S. depressiusculum, S. flaveolum and Leucorrhinia pectoralis are mentioned and their occurrence in the Park (Styria, Slovenia) is outlined. For a complete list, see *OA* 12796. A brief professional biography and a portrait of the first Author are included.

(14670) [ENDERSBY, I.D.], 2003. [Book review]. Dragonflies of Victoria [...], by G. Theischinger and J.H. Hawking. *Victoria Ent.* 33(1): 11-12. – (56 Looker Rd, Montmorency, Vic. 3094, AU).
The comprehensive review of the work described in *OA* 14558 includes also corrections of some errors/shortcomings in the book.

(14671) KURATA, M., 2003. *A survey and an account of a pursuit of Aeshna juncea.* Ishizawa, Tokorozawa, 11 pp. – (Author: 1475-2, Daikan-cho, Matsushiro--machi, Nagano City, 381-1231, JA; – Publisher: N. Ishizawa, 1644-15, Yamaguchi, Tokorozawa, Saitama, 359-1145, JA).
The highlights of A. juncea biology in the Japanese Alps, selected, translated and abridged by N. Ishizawa from the book listed in *OA* 1228, which was originally published in 1974. The author is a retired secondary school teacher of science; his book is considered one of the most splendid works on the biology of a single odon. sp. in the Japanese literature.

(14672) MILLER, P. & K. MILLER, 2003. *East African dragonflies. A guide for residents, students and visitors, with colour plates and keys.* Nature Kenya, Nairobi. x+263 pp., 8 col. pls incl. Softcover, spiral binding (14.0×20.4 cm). ISBN 9966-9921-3-8. Price £ 20.- net. – (Prepaid orders to be sent to: Mrs A.K. Miller, 68 Blenheim Dr., Oxford, OX2 8DQ, UK).
A much needed book, the first of its kind on African odon., designed for practical use in the field and laboratory. It assumes no previous knowledge, and provides all the basic information required by a student of African odon. ecology, biology and behaviour, incl. a checklist of E African spp. (322) and a key to the families and genera. The brief "monographs" on 30 selected spp. are of particular interest and provide much of the hitherto unpublished information. A special feature of the book is the inclusion of numerous suggestions for pending research projects. Conservation issues are also addressed, and suggestions are made as to the applicability of some spp. as water-quality indicators. – The book could stand model for the preparation of similar dragonfly-watcher texts for the other parts of the world, and it should not be missed in any odonatol. library.

(14673) *NIEUWSBRIEF VAN DE NEDERLANDSE VERENIGING VOOR LIBELLENSTUDIE* (ISSN 1387-4470), Vol. 7, No. 1 (Feb. 2003). (Dutch). – (c/o R. Manger, Stoepveldsingel 55, NL-9403 SM Assen).
Contains mainly items on administration and meeting notices, and an improved version of *E. Ruiter*'s article (p. 7-8), published originally in 6(4): 11-12 (cf. *OA* 14640).

(14674) *The OHIO DRAGON-FLIER*. Newsletter of the Ohio Dragonfly Society, Vol. 13, No. 1 (Jan., 2003). – (c/o B. Glotzhober, Ohio Hist. Soc., 1982 Velma Ave, Columbus, OH 43211-2497, USA).
[Selected titles:] *Paulson, D.*: Ode sampling effort map (pp. 1-2); – *Thompson-Chordas, J.M.*: Minutes of the OOS meeting, 14 June 2002 (p. 2); – *Donnelly, N.*: Problems with Tetragoneuria! (pp. 4-5); – *Glotzhober, B.*: New county records (p. 5); – Photo records (p. 5).

(14675) *SYMPOSIUM ABSTRACTS* [of the] 3rd Worldwide Dragonfly Association International Symposium of Odonatology, Beechworth, Australia, January 7-13, 2003. Murray-Darling Freshw. Res. Cent., Albury/NSW. 57 pp. Edited by J. Hawking. – (Available from the Ed.: Murray-Darling Freshw. Res. Cent., P.O. Box 921, Albury, NSW 2640, AU).
O r a l presentations: *Clausnitzer, V.*: Dragonflies of East Africa: distribution patterns and concerns about conservation (p. 8); – *Cordero Rivera, A., Sánchez-Guillén, R.A. & H. van Gossum*: The adaptive significance and the inheritance of female colour morphs in Ischnura elegans (p. 9); – *Corbet, P.S.*: Ballistic defaecation by anisopteran larvae: a way to increase foraging success? (p. 9); – R.J. Tillyard: a giant among odonatologists (p. 10); – *Dijkstra, K.-D.B. & V. Clausnitzer*: Towards a new identification manual for eastern African Odonata (p. 10); – *Dijkstra, K.-D.B., V. Kalkman, R. Ketelaar & M. van der Weide*: A new Atlas of dragonflies in the Netherlands (p. 11); – *Evans, J.*: R.J. Tillyard: his life and work (p. 11); – *Foote, D.*: Megalagrion damselflies as indicators of hydrologic change in Hawaii (p. 12; title only); – *Groenendijk, D.*: Conservation and ecological requirements of Calopteryx virgo and Cordulegaster boltonii in the Netherlands (p. 12); – *Groenendijk, D., R. Ketelaar & C. Plate*: The Dutch dragonfly monitoring scheme: summarising the first results after four years of counting (p. 13); – *Günther, A.*: Threatening flights of Rhinocypha species from Sulawesi: an exceptional function for population coherence? (p. 13); – *Hawking, J.H.*: Ecological partitioning of Odonata along a watercourse (p. 14); – Biodiversity and ecology of dragonflies (Odonata) from Victoria, Australia (p. 14); – *Hawking, J.H. & P.S. Corbet*: Dr J.A.L. Watson: an outstanding contribution to Australian odonatology (p. 15); – *De Heer, H. & M. Nijkamp*: The Green Hawker in a water soldier habitat (p. 15; Aeshna viridis); – *Kakkassery, F.K.*: Studies on biodiversity and causes of rapid declination of dragonflies and damselflies of Kerala and Western Ghats, India (p. 16); – *Kalkman, V.*: Distribution and species assemblages of dragonflies in Turkey (p. 16); – *Ketelaar, R.*: Ecological requirements and modelling habitat quality of Coenagrion hastulatum in the Netherlands (p. 17); – *Ketelaar, R. & E. Ruiter*: Searching for a needle in a hay-stack: where does Sympecma paedisca hibernate? (p. 17); – *Ketelaar, R. & M. Kotarac*: Prime dragonfly areas in Europe: a new project to assess priorities for European dragonfly conservation (p. 18); – *Karube, H.*: Occurrence of the larvae of Petalura ingentissima Tillyard (p. 18); – *Martens, A. & F. Suhling*: Living deserts: distribution patterns of Nambian Odonata in space and time (p. 19); – *May, M.L.*: Affinities among Gondwanaland relict Odonata (p. 19); – *New, T.R.*: Hemiphlebia mirabilis as a flagship species for insect conservation in Australia (p. 20); – *Paulson, D.*: Dry-season dragonflies in a Peruvian rain forest (p. 20); – *Rowe, R.J.*: Larval agonistic behaviour: where we are, where we are going (p. 21); – Conservation of dragonflies in the South Pacific and Australasia (p. 21); – *Sahlen, G.*: Dragonfly species richness, biodiversity indicators and dispersal in the agricultural landscape of South Sweden: a preliminary study (p. 22); – *Samways, M. & S. Taylor*: Global Dragonfly Assessment (p. 22); – *Samways, M., S.E. Piper & S. Taylor*: Design of a Relational Spatial Database and Geographic Information System (GIS) for mapping South African Odonata (p. 23); – *Stange, G. & J. Chahl*: Ocellar vision in dragonflies: lessons for the design of horizon detectors for robotic aircraft (p. 23); – *Suhling, F. & A. Martens*: Migrants versus residents: the role of biotic interaction and temporal priority in odonate assemblages of temporary desert ponds (p. 24); – *Theischinger, G.*: Personal anecdotes about a few enigmatic Australian dragonflies (p. 24); – *Thomas, M., Gunasekaran & D. Mohan*: Comparative studies on the genital and sub-genital abdominal segments of five species of dragonflies (Anisoptera: Odonata) (p. 25); – *Trueman, J. & R. Rowe*: The Tree of Life Odonata pages: content and opportunities (p. 25); –

van Tol, J.: Taxonomy and biogeography of the Platystictidae of Southeast Asia (Odonata) (p. 26); – *Watanabe, M.*: Fecundity and life history strategy of the darter Sympetrum infuscatum inhabiting forests (p. 26); – *Watanabe, Y.*: The morphology and behaviour of two early instar stages of Euphaea yayayamana (Zygoptera: Euphaeidae) (p. 27); – *Wilson, K.D.P.*: Conservation priorities for Hong Kong dragonflies (p. 27); – *Worthington, A. & R.M. Olberg*: Prey-object size selection in foraging adult dragonflies (p. 28). – Posters: *Berry R. & G. Stange*: Advanced optical techniques for 3-D reconstruction of the dragonfly ocelli (p. 29); – *Clausnitzer, V.*: Dragonflies in the East African Republic (p. 30); – *May, M.L.*: Body temperature regulation in the dragonfly Arigomphus villosipes (Anisoptera: Gomphidae) (p. 30); – *Mitchell, A. & M.J. Samways*: Forms of Palpopleura lucia (Drury): balanced polymorphism or separate species? Evidence from ITS2 DNA sequences (p. 31); – *Mizutani, A., J. Chahl & G. Stange*: Development of a stereo camera system for analysis of insect flight kinematics (p. 32); – *Reels, G.T.*: Dragonfly survey of tropical southern China conducted by Kadoorie Farm & Botanic Garden (p. 33); – *Richards, S.J. & R.J. Rowe*: Dragonflies of an Australian tropical rainforest stream (p. 33); – *Trueman, J.*: The earliest life stages of Petalura gigantea (Petaluridae) (p. 34); – *Tsubaki, Y.*: Habitat suitability assessment for a calopterygid damselfly in a watershed landscape (p. 34). – Also included are the address list of participants (pp. 35--39), and a facsimile of the paper listed in *OA* 13096 (pp. 40-51).

(14676) *WILLIAMSONIA*. Newsletter of the Michigan Odonata Survey. (ISSN none) Vol. 7, No. 1 (Feb. 2003). – (c/o Dr M.F. O'Brien, Insect Div., Mus. Zool., Univ. Michigan, 1109 Gaddes Ave, Ann Arbor, MI 48109--1079, USA).

O'Brien, M.: 2002 Odonata highlights (pp. 1-2); – Notes from the Editor (p. 2-3); – *Freeman, C.*: A summary of Carl's "Big Year" (pp. 4-5; records); – *Clark, J.M.*: News from an Ode-watcher (pp. 5-6); – *Fleming, R.C.*: Megacalopteryx rotostoma (p. 8; description of a dragonfly model). – Several notes, meeting announcements and a book review are also included.

(14677) WORLDWIDE DRAGONFLY ASSOCIATION, 2003. *Biennial report 2001-2002*. Prepared for the WDA 3rd Biennial General Meeting in Beechworth, Australia, January 2003. 14 pp.

Corbet, P.: Report from Chairman of the Board of Trustees (p. 3); – *May, M.*: Vice President's report (p. 4); – *Averill, L.*: Secretary's report (p. 4); – *Gennard, D.*: Treasurer's report (p. 5); – *Jödicke, R.*: Managing Editor's report (p. 6); – *Arnold, R.M.*: Webmaster's report (p. 7; appendix pp. 11-12); – *Suhling, F.*: Chairman of the Conservation and Grant Committee's report (pp. 8-9); – *Ubukata, H.*: Regional Co-ordinator's report (p. 9); – *Clausnitzer, V.*: Liaison Officer's report (p. 10); – *Pritchard, G.*: Report from the International Symposia Committee (p. 10); – *Higashi, K.*: Report from the Japanese Representative (p. 13); – *Income and expenditure account 2001-2002* (p. 14).