

**RECENT  
PUBLICATIONS ON  
WADERS 66**

COMPILED BY  
HENK KOFFIJBERG

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Remember to include, if possible, the address of the first author, and translations of titles if they are in other languages than English.

For help with this issue I'm very grateful to D.A. Stroud, M. Sálek, D.B. Lank, R. Deman, J. Melter, V.V. Morozov, M. Boschert, F. Scarton, S. Haig, P. Triplet, W. Meissner, I. Bainbridge, R. Neves, R. Rufino, M. Stipcevit, J. Figuerola, G. Oliso, B. Trolliet and T. Piersma

Translated titles from languages other than English are bracketed; with round brackets if the translation is by the author(s), square brackets if not.

N.B. a copy of your paper or abstract would be very helpful to enable me to add some keywords or give added annotation to the titles.

So far, about 5 300 titles have been stored in the WSG/RPW database. Keep sending more!!

**Note to readers in the USA: since the US Dept. of the Interior, National Biological Service has stopped publishing *Wildlife Review*, I have no longer access to wader papers in ornithological journals published in the individual States. If you find any interesting papers in these journals, please send me a copy.**

**BREEDING**

Beintema, A.J. 1995. Fledging success of wader chicks, estimated from ringing data. *Ring. & Migr.* 16(3): 129-139. (Inst. Forestry & Nat. Res., P.O. Box 23, NL-6700 AA Wageningen, Netherlands). *Vanellus vanellus*, *Limosa limosa*, *Tringa totanus*, *Haematopus ostralegus*, The Netherlands.

Blomqvist, D. & Johansson, O.C. 1995. Trade-offs in nest site selection in coastal populations of Lapwings *Vanellus vanellus*. *Ibis* 137: 550-558. (Dept. Zool., Sect. Anim. Ecol., Univ. Göteborg, Medicinaregatan 18, S-413 90 Göteborg, Sweden). It is suggested that nest site selection and offspring production involve a trade-off between the benefits of nesting close to rich feeding grounds for adults and the costs of moving long distances between nest sites and chick-rearing areas.

Bollmeier, M. 1992. Brutbestandserfassung von Kiebitz *Vanellus vanellus*, Grossem Brachvogel *Numenius arquata* und Uferschnepfe *Limosa limosa* 1992 in Südniedersachsen. [Breeding of Lapwing, Curlew and Black-tailed Godwit in Lower Saxony in 1992]. *Vogelkdl. Ber. Niedersachs.* 24: 77-95. In German.

Boschert, M. 1995. Bruten des Flussregenpfeifers (*Charadrius dubius*) auf Kiesdächern. (Breeding of the Little Ringed Plover (*Charadrius dubius*) on flat rooves filled with pebbles). *Naturschutz südl. Oberrhein* 1: 37-38. In German with English summary. (Wiedigstr. 18, D-77815 Bühl, Germany).

Bukacinski, D. & Bukacinski, M. 1995. (Communal brood of the Lapwing (*Vanellus vanellus*) on a Vistula River island). *Notatki Ornitol.* 36(1-2): 170-173. In Polish with English summary. (Inst. Ekologii PAN, Dziekanow Lesny, 05-092 Lomianki, Poland).

Handke, K. 1996. Bestandsentwicklung der Brutvögel eines Flussmarschengebietes bei Bremen. (Population changes of breeding birds in a river marsh area near Bremen, northern Germany). *Vogelwelt* 117(1): 15-28. In German with English summary. (LFB Landschaftsökologische Forschungsstelle Bremen, Am Wall 164, D-28195 Bremen, Germany). Breeding bird community of a marsh area along the river Weser was surveyed. Breeding waders: *Vanellus vanellus*, *Tringa totanus*, *Limosa limosa*, *Gallinago gallinago*, *Haematopus ostralegus*, *Charadrius dubius*, *C. hiaticula*, *Philomachus pugnax*, *Numenius arquata*.

Hötter, H., Kölsch, G. & Visser, G.H. 1996. Der Energieumsatz brütender Säbelschnäbler *Recurvirostra avosetta*. (Energy metabolic rate in breeding Avocets *Recurvirostra avosetta*). *J. Orn.* 137(2): 203-212. In German with English summary.

(Forschungs- und Technologiezentrum Univ. Kiel, Hafentörn, D-25761 Büsum, Germany). A comparison with other studies revealed that the field metabolic rates of waders during the breeding season are strongly influenced by the geographical position of their breeding sites and the related thermostatic costs.

Lancot, R.B., Gill, R.E. Jr., Tibbitts, T.L. & Handel, C.M. 1995. Brood amalgamation in the Bristle-thighed Curlew *Numenius tahitiensis*: process and function. *Ibis* 137: 559-569. (Natl. Biol. Serv., Alaska Sci. Ctr., 1011 E. Tudor Rd., Anchorage, AK 99503, USA). It is suggested that amalgamation of broods among Bristle-thighed Curlew enhances predator defence, aids in the process of flock formation for migrating young, and allows females and some males to desert their young earlier.

McCaffery, B.J. & Gill, R.E. Jr. 1992. Antipredator strategies in breeding Bristle-thighed Curlews. *Am. Birds* 46: 378-383. (Gill: Natl. Biol. Serv., Alaska Sci. Ctr., 1011 E. Tudor Rd., Anchorage, AK 99503, USA). *Numenius tahitiensis*.

Minton, C., Pearson, G. & Lane, J. 1995. Banded Stilts *Cladorhynchus leucocephalus* breeding at Lake Ballard, Western Australia. *Stilt* 27: 44-45. (165 Dalgetty Rd., Beaumaris, Vic. 3192, Australia).

Sálek, M. 1993. (Breeding of Lapwing (*Vanellus vanellus*) in Basins of South Bohemia: population density and habitat preference). *Sylvia* 30: 46-58. In Czech with English summary. (Dept. Ecol., Fac. Forestry, Czech Agric. Univ., CZ-165 21 Praha 6, Czech Republic). Meadows were not favourable as a habitat for breeding Lapwing as documented by low density of breeding pairs and high clutch losses. Areas with low and sparse vegetation were preferred but these habitats have a small total area or a very high rate of clutch failures. Winter wheat fields have a large total area and were occupied by a high proportion of pairs with favourable clutch survival.

Sálek, M. 1995. (Monitoring of the Lapwing (*Vanellus vanellus*) breeding population in the Czech Republic). *Zprávy CSO* 41: 18-25. In Czech with English summary. Information about breeding population numbers and changes, breeding habitat, hatching success, and causes of clutch losses.

Sálek, M. 1995. (Seasonal changes in clutch size and egg size in the Lapwing (*Vanellus vanellus*). *Sylvia* 31(1): 16-25. In Czech with English summary.

Scarton, F., Valle, R. & Borella, S. 1994. Nesting parameters of Oystercatchers, *Haematopus ostralegus*, in the Po Delta (Italy). *Gerfaut* 84: 3-6. (Naturae srl., Via Ferro 13, Mestre (VE), I-30100, Italy). In 1991 32 breeding pairs, and in 1992 38

breeding pairs were studied. In both years, *Haematopus ostralegus* nested on dunes and beaches. Comparisons are made between nesting Oystercatchers in the Po Delta with those in Greece and Spain.

Underhill, L.G. & Oatley, T.B. 1995. Breeding productivity of Curlew Sandpipers, 1990-1994. *Safring News* 24(2): 77-78. (Avian Demography Unit, Univ. Cape Town, Rondebosch 7700, South Africa). *Calidris ferruginea*.

Yésou, P., Nisser, J. & Marquis, J. 1995. Biologie de la reproduction d l'huftrier-pie en Bretagne. [Breeding biology of the Oystercatcher in Bretagne]. *Bull. mens. ONC* 200: 4-13. In French. (ONC, Direction de la Recherche et du Développement, CNERA migratrice, 40 rue Carnot, F-80550, Le Crotoy, France). *Haematopus ostralegus*.

## BEHAVIOUR, ECOLOGY & EVOLUTION

Crossland, A.C. 1995. A probable case of intraspecific killing in Turnstones (*Arenaria interpres*). *Notornis* 42(4): 281.

Figuerola, J. & Bertolero, A. 1995. The primary moult of Curlew Sandpiper in the Ebro Delta, North-East Spain. *Ring. & Migr.* 16(3): 168-171. (Dept. Biol. Animal (vertebrat), Fac. Biol., Univ. Barcelona, Avda. Diagonal, 645, E-08028 Barcelona, Spain). *Calidris ferruginea*.

Figuerola, J. & Bertolero, A. 1995. Theoretical flight ranges of waders resting in the Ebro Delta during autumn migration. *Doñana, Acta Vertebrata* 22(1-2): 124-130. Analysis of data for *Charadrius alexandrinus*, *Calidris minuta*, *C. alpina* and *C. ferruginea*.

Gill, J.A., Clark, J., Clark, N. & Sutherland, W.J. 1995. Sex differences in the migration, moult and wintering areas of British-ringed Ruff. *Ring. & Migr.* 16(3): 159-167. (School Biol. Sci., Univ. East Anglia, Norwich, Norfolk, NR4 7JT, UK). *Philomachus pugnax*. Analysis of ringing recoveries of British ringed birds showed that females tended to migrate to Africa while males tended to winter in Europe.

Hands, H.M., Ryan, M.R. & Smith, J.W. 1991. Migrant shorebird use of marsh, moist-soil, and flooded agricultural habitats. *Wildl. Soc. Bull.* 19: 457-464.

Hemmerling, W. & Meyer, D. 1993. [The population decline of the Black-tailed Godwit in the Elbe floodplains in Pinneberg, Schleswig-Holstein. The cause of the decline and its consequences for nature conservation strategy]. *Corax* 15: 156-159. In German with English summary. (Virchowstr. 72, D-2000 Hamburg 50,

Germany). *Limosa limosa*.

Karpov, F.F. 1995. (Feeding behaviour of Temminck's Stint during autumn migration in south-eastern Kazakhstan). *Selevinia* 3(1): 66-68. In Russian. *Calidris temminckii*.

Kremetz, D.G., Seginak, J.T. & Pendleton, G.W. 1995. Habitat use at night by wintering American Woodcock in coastal Georgia and Virginia. *Wilson Bull.* 107(4): 686-697. *Scolopax minor*.

Kube, J. 1994. [Aspects of feeding ecology of migrating waders along the coast of the southern Baltic]. *Corax* 15, suppl. 2: 57-72. In German with English summary. (Thomas-Müntzer-Platz 64, D-18057 Rostock, Germany).

Kube, J. ...[et al.] 1994. [The migration of Dunlins (*Calidris alpina*) along the southern Baltic and in the Schleswig-Holstein Wadden Sea in summer and autumn 1991]. *Corax* 15, suppl. 2: 73-82. In German with English summary.

Kube, J. & Graumann, G. 1994. [The moult migration of Avocets (*Recurvirostra avosetta*) of the Baltic Sea]. *Corax* 15, suppl. 2: 93-101. In German with English summary.

Lambeck, R.H.D., Bianki, V.V., Schekkerman, H., Wessel, E.G.J., Herman, P.M.J. & Koryakin, A.S. 1995. Biometrics and migration of Oystercatchers (*Haematopus ostralegus*) from the White Sea region (NW Russia). *Ring. & Migr.* 16(3): 140-158. (Neth. Inst. Ecol., Ctr. Estuarine & Coastal Ecol., Vierstraat 28, NL-4401 EA Yerseke, Netherlands).

Lank, D.B., Smith, C.M., Hanotte, O., Burke, T. & Cooke, F. 1995. Genetic polymorphism for alternative mating behaviour in lekking male ruff *Philomachus pugnax*. *Nature* 378: 59-62. (Dept. Biol. Sci., Simon Fraser Univ., Burnaby, BC, V5A 1S6 Canada). By rearing Ruffs in captivity, it is shown that differential morph development is genetically controlled and consistent with a single-locus, two allele autosomal genetic polymorphism. Several potentially relevant environmental factors do not appear to alter behavioural development.

Lauro, B. & Nol, E. 1995. Feeding behavior, prey selection, and bill size of Pied and Sooty Oystercatchers in Australia. *Wilson Bull.* 107(4): 629-640. *Haematopus longirostris* and *H. fuliginosus*.

Lauro, B. & Nol, E. 1995. Patterns of habitat use for Pied and Sooty Oystercatchers nesting at the Furneaux Islands, Australia. *Condor* 97(4): 920-934. *Haematopus longirostris* and *H. fuliginosus*.

Lyons, J.E. & Haig, S.M. 1995. Fat content

and stopover ecology of spring migrant Semipalmated Sandpipers in South Carolina. *Condor* 97: 427-437. (Dept. Biol., Virginia Polytechnic Inst. & State Univ., Blacksburg, VA 24061-0406, USA). It is hypothesized that if *Calidris pusilla* are minimizing time spent en route between wintering areas and breeding grounds, a negative correlation should exist between fat content upon arrival at a staging area and length of stay. Results showed that length of stay was independent of estimated fat content at capture after controlling for date in the season. Migrants appear to shift their migration priorities with respect to fat stores and stopover time as the season progresses.

Madsen, J. & Fox, A.D. 1995. Impacts of hunting disturbance on waterbirds - a review. *Wildl. Biol.* 1(4): 193-207. (Natl. Environm. Res. Inst., Dept. Wildl. Ecol., Kalø, Grenåvej 12, DK-8410 Ronde, Denmark). Biological evidence for effects of hunting disturbance on the behaviour and distribution of migratory and wintering waterbirds (including waders) and its possible impacts on population dynamics is reviewed.

McAuley, J.H., Longcore, J.R., Sepik, G.F. & Pendleton, G.W. 1996. Habitat characteristics of American Woodcock nest sites on a managed area in Maine. *J. Wildl. Manage.* 60(1): 138-147. *Scolopax minor*, USA.

Meer, J. van der & Piersma, T. 1995. Het Balgzand als fourageergebied voor overwinterende Kanoetstrandlopers. [The Balgzand as a feeding area for wintering Knots]. *Graspieper* 15(4): 153-158. In Dutch. (NIOZ, P.O. Box 59, NL-1790 AB Den Burg, Texel, Netherlands). *Calidris canutus* feeding on intertidal flats in the Dutch Wadden Sea.

Melter, J. & Bergmann, H.-H. 1996. Jahreszeitliches Aktivitätsmuster, Mauerzyklus und Körpermassenänderung bei Kampfläufers (*Philomachus pugnax*) unter Gehegebedingungen. (Annual pattern of locomotor activity, moult and body mass in captive Ruffs (*Philomachus pugnax*). *Vogelwarte* 38(3): 169-179. In German with English summary. (Biol. Stn. "Rieselfelder Münster", Coermühle 181, D-48157 Münster, Germany).

Neves, R. & Rufino, R. 1994. *Importância ornitológica das Salinas; o caso particular do Estuário do Sado*. (The ornithological importance of salinas; the case of the Sado estuary). *Estudos de Biologia e Conservação da Natureza* No. 15. Lisboa: Instituto da Conservação da Natureza ICN, 37 pp. In Portuguese with English summary. (ICN, Rua da Lapa, 73, P-1200 Lisboa, Portugal). Information on the importance of salinas to waterbirds, using *Himantopus himantopus* as an indicator species. The report presents data on the Black-winged Stilt breeding population from 1990-1992 concerning

numbers, habitat use, and distribution. See summary in Reviews section this *Bulletin*.

Plummer, R. 1996. Antagonistic behaviour of feeding Common Snipe. *Brit. Birds* 89(4): 175-176. (4 Tros Yr Aber, Deva Heights, Holywell, Clwyd CH8 7XP, UK). *Gallinago gallinago*.

Raynor, E.M. 1996. Distinctive feeding behaviour of Semipalmated Sandpipers. *Brit. Birds* 89(3): 140-141. (15 Nash Meadow, South Warnborough, Hampshire RG25 1RJ, UK). *Calidris pusilla*.

Sager, I. 1994. Oystercatcher redux. *Bird Observer* 22: 185-192. (c/o BOEM, P.O. Box 236, Arlington, MA 02174, USA). On status and feeding behaviour of *Haematopus palliatus*, Massachusetts, USA.

Sálek, M. 1990. [The numbers, changes in numbers and habitat choice of the local population of Lapwing (*Vanellus vanellus* L.) in the northern part of the České Budejovice Basin, Czech Republic 1982-88]. *Proc. Conf. "Ptáci v kulturní krajine", České Budejovice 1989* 189-206. In Czech with German summary. (Dept. Ecol., Fac. Forestry, Czech Agric. Univ., CZ-165 21 Praha 6, Czech Republic).

Sálek, M. 1996. (*Ecology and conservation of waders (Aves: Limicolae) breeding in agricultural landscape*). Dissertation Czech Agric. Univ., Praha. 187 pp. In Czech with English summary. Analysis of long- and short-term changes in numbers of waders breeding in Basins of South Bohemia; of habitat requirements of particular wader species; reproduction characteristics of *Vanellus vanellus* populations. Data on *Limosa limosa*, *Tringa totanus* and *Gallinago gallinago*.

Schekkerman, H. 1996. Invloed van graslandbeheer op de groeiomgiffen van gruttoekikens. [Management of meadows and growth of chicks of Black-tailed Godwits]. *Limosa* 69(1): 25-26. In Dutch. (DLO Inst. Bos- en Natuurbeheer, P.O. Box 23, NL-6700 AA Wageningen, The Netherlands). *Limosa limosa*.

Zenatello, M. & Zorzi, S. 1995. Dinamica dell'occupazione dei quartieri di svernamento del Piovanello pancianera *Calidris alpina* in Italia. [Phenology of wintering Dunlins *Calidris alpina* in Italy]. *Avocetta* 19: 71. In Italian. (I.N.F.S., Via Ca' Fornacetta 9, I-40064 Ozzano Emilia, Bologna, Italy).

Triplet, P. 1996. Comment les Huitriers-pies *Haematopus ostralegus* consommateurs de coques *Cerastoderma edule*, évitent les relations intraspécifiques. [How Oystercatchers feeding on Common cockles, avoid intraspecific interactions]. *Alauda* 64(1): 1-6. In French with English summary. (Réserve naturelle de la Baie de Somme

SMACOPI, 1, Place de l'Amiral Courbet, F-80 000 Abbeville, France).

Turpie, J.K. 1995. Non-breeding territoriality: causes and consequences of seasonal and individual variation in grey plover *Pluvialis squatarola* behaviour. *J. Anim. Ecol.* 64: 429-438. (Percy FitzPatrick Inst. Ornithol., Univ. Cape Town, Rondebosch, South Africa 7700). *Pluvialis squatarola*, Zwartkops estuary, South Africa.

Webb, A. 1996. Plunge-bathing by Common Redshanks. *Brit. Birds* 89(2): 95. (1 Woolacombe Rd., Blackheath, London SE3 8QJ, UK). *Tringa totanus*.

Weber, L.M. & Haig, S.M. 1996. Shorebird use of South Carolina managed and natural coastal wetlands. *J. Wildl. Manage.* 60(1): 73-82. (Human and Natural Ecol. Progr., 1130 Rollins Res. Ctr., Emory Univ., Atlanta, GA 30322, USA). Results indicate that an integrative shorebird-waterfowl management strategy provides supplemental shorebird habitat at high tide, and managed wetlands can be preferred to local natural mudflat areas at low tide. Species: Charadriiformes.

Weber, L.M. 1994. *Foraging ecology and conservation of shorebirds in South Carolina coastal wetlands*. Ph.D. thesis, Clemson Univ. 126 pp.

Whitfield, D.P. 1995. Behaviour and ecology of a polyandrous population of Grey Phalaropes *Phalaropus fulicarius* in Iceland. *J. Avian Biol.* 26(4): 349-352. (Scott. Natl. Heritage, Research and Advisory Services Directorate, 2 Anderson Place, Edinburgh EH6 5NP, UK). In a two year study of a small breeding group of *Phalaropus fulicarius* in Iceland the sex ratio was male-biased and polyandry was recorded in three of six female-years. Most observations suggested that males competed for females, in contrast to findings of other studies.

Widemo, F. 1995. Distribution models and the evolution of lekking, with empirical tests on the Ruff, *Philomachus pugnax*. Dissertation Uppsala Univ., 119 pp. ISBN 91-554-3479-7.

Wymenga, E. 1995. Veel bokjes in ruige moeras- en graslandvegetaties. [High numbers of Jack Snipe in marshes and meadows with dense vegetation]. *NSWG Nieuws* 3(1/2): 10-11. In Dutch. (Veenhout 11, NL-9269 VL, Veenwouden, Netherlands). Habitat preference of *Lymnocyptes minimus*, The Netherlands.

## DISTRIBUTION & FAUNISTICS

Andreev, A.V. & Kondratyev, A.V. 1996. (New case of nesting of the Semipalmated Sandpiper on Chukotka). *Information*

*Materials of the Working Group on Waders* 9: 34. In Russian. *Calidris pusilla*.

Ardamatskaya, T.B. 1996. (Record of the Slender-billed Curlew in the Black Sea Nature Reserve, Ukraine, in 1995). *Information materials of the Working Group on Waders* 9: 34. In Russian. *Numenius tenuirostris*.

Atkinson, P.W. 1996. The origins, moult, movements and changes in numbers of Bar-tailed Godwits *Limosa lapponica* on the Wash, England. *Bird Study* 43(1): 60-72. (Sch. Biol. Sci., Univ. East Anglia, Norwich, Norfolk NR4 7TJ, UK). Description of biometrics, wing moult and movements of approximately 3 500 Bar-tailed Godwits caught on the Wash between 1960-1990.

Bell, D.G. 1996. Photospot: Great Knot *Calidris tenuirostris*. *Brit. Birds* 89(3): 108-109. (Farne View, The Wynding, Bamburgh, Northumberland NE69 7DD, UK). With photograph of adult male in full summer plumage, Kolyma Delta, Russia.

Boschert, M. & Rupp, J. 1995. Verbreitung und Bestandsentwicklung des Grossen Brachvogels (*Numenius arquata*) am südlichen und mittleren Oberrhein 1990 bis 1994. (Distribution and population trend of the Curlew (*Numenius arquata*) at the southern and middle Upper Rhine 1990 - 1994). *Naturschutz südl. Oberrhein* 1: 21-27. In German with English summary. (Wiedigstr. 18, D-77815 Bühl, Germany). Population decreased from about 90 pairs in 1991 to 79 pairs in 1994.

Boschert, M., Münch, C. & Opitz, H. 1995. Bestandsentwicklung des Grossen Brachvogels (*Numenius arquata*) in der Schutter-, Rench- und Kammbachniederung, Ortenaukreis, 1969 bis 1994. (Population trends of the Curlew (*Numenius arquata*) in the lowlands along the rivers 'Schutter', 'Rench', and 'Kammbach', Ortenaukreis, 1969 - 1994). *Naturschutz südl. Oberrhein* 1: 29-32. In German with English summary. Decrease of breeding pairs.

Boschert, M., Kropp, R. & Peter, D. 1995. Grosser Brachvogel (*Numenius arquata*), Bekassine (*Gallinago gallinago*) und Braunkehlchen (*Saxicola rubetra*) in Brutgebieten in der nordbadischen Oberrheinebene von 1970 bis 1995 - Bilanz einer 25jährigen Bestandserfassung. [Breeding Curlews, Snipes, and Whinchats in the Upper Rhine Valley from 1970 to 1995 - the results of 25 years monitoring]. *Orn. Jh. Bad. Württ.* 11: 139-158. In German with English summary. Results from a 25-year study on distribution, population size and the development of breeding of Curlew, Snipe and Whinchat are presented. A drastic decrease of breeding sites and pairs was found in all three species.

- Brink, H. van den 1996. *De vogels van Rottum*. (The birds of Rottum). *Levende Natuur* 97(2): 62-66. In Dutch with English summary. (Wolddijk 70, NL-9784 TE Noordwolde, Netherlands). Yearly maximum numbers of *Haematopus ostralegus*, *Pluvialis squatarola*, *Calidris alpina* and *Numenius arquata* exceed the 1% level, the IWRB standard for international importance of wetlands. Breeding numbers of *Charadrius hiaticula* and *C. alexandrinus* are of national importance. Rottumeroog and Rottumerplaat are two small uninhabited islands in the eastern part of the Dutch Wadden Sea. Other migrating waders are *Calidris canutus*, *C. alba*, and *Arenaria interpres*.
- Charco Garcia, J. 1994. [Wintering of Eurasian Dotterel (*Charadrius morinellus*) on the high plateau of East Morocco]. *Porphyrio* 6: 107-109. In French. (Mesones 3bis, 29805 Melilla, Spain).
- Cherenkov, A.E. & Semashko, V.Y. 1992. Changes in the numbers of breeding coastal birds on islands in the Onega Bay of the White Sea during the last three decades]. In: *Problems of investigation, rational utilisation, and preservation of the natural resources in the White Sea. Abstracts of the 5th Regional Conference*. Petrozavodsk: Russian Academy of Sciences, Karelian Scientific Centre, pp. 212-212A. In Russian.
- Deman, R. 1996. Opmerkelijke doortrek van Kluten (*Recurvirostra avosetta*) te Zandvliet-Antwerpen tijdens de periode juni-oktober 1994. [Remarkable migration of Avocets at Zandvliet-Antwerp during June-October 1994]. *Wielewaal* 62(1): 9-10. In Dutch. (Kwade-Veldenplein 8, bus 3, B-2170 Merksem, Antwerpen, Belgium).
- Dix, T. 1990. Long-toed Stint in the Western Isles. *Birding World* 3(9): 310. *Calidris subminuta*, UK.
- Doherty, P. 1991. Identification of juvenile Longtoed Stint and Least Sandpiper. *Birding World* 4(8): 279-281. (28 Carousel Walk, Sherburn in Elmet, N. Yorkshire LS 25 6LP, UK). *Calidris subminuta* and *C. minutilla*.
- Donahue, P.K. 1996. Bill length and bill shape of Semipalmated Sandpiper. *Brit. Birds* 89(5): 234-235. (P.O. Box 554, Machias, Maine 04654, USA). *Calidris pusilla*.
- Franchimont, J. ...[et al.] 1994. [Analysis of the evolution of the presence of water birds overwintering in central Morocco during the decade 1983-1993]. *Porphyrio* 6: 7-94. In French with English summary. (Dept. Biol., Fac. Sci. Meknes, Morocco).
- Gantlett, S. & Millington, R. 1993. The Oriental Pratincole in Norfolk. *Birding World* 6(5): 192-193. *Glareola maldivarum*.
- Gantlett, S. & Millington, R. 1991. The Pacific Golden Plover at Cley, Norfolk. *Birding World* 4(12): 438-439. *Pluvialis fulva*, UK.
- Gao Yu-ran 1994. (Ageing of waders in the hand). In: Lu Jian-jian, Piao Ren-zhu, Whu Zhinkang, Gao Yu-ran, Zhou Fang & Zhao Zhen-jie (eds.). *Waterbird research in China*. [S.I.]: East China Normal University Press, p.p 100-106. In Chinese with English summary. (South China Inst. Endangered Anim., Guangzhou 510260, China).
- Gerritsen, G. 1995. Monitoring van steltlopers op binnenlandse pleisterplaatsen in 1993. [Monitoring waders at inland roosts in 1993]. *NSWG Nieuws* 3(1/2): 5-7. In Dutch. (Veerallee 33, NL-8019 AD, Zwolle, Netherlands). Results of counts at inland wader roosts in the Netherlands.
- Golley, M. & Stoddart, A. 1991. Identification of American and Pacific golden plovers. *Birding World* 4(6): 195-204. (1 Willow Tree Close, Okehampton, Devon EX20 1NL, UK). *Pluvialis dominica*, *P. fulva*, and *P. apricaria*.
- Griffiths, M. 1991. Wader numbers in north-east Kent 1991-92. *Kent Bird Report* 1991: 129-136.
- Hájek, V. 1995. (The first catching of Marsh Sandpiper (*Tringa stagnatilis*) in Southern Moravia). *Zprávy CSO* 41: 10. In Czech with English summary.
- Handke, K. & Müller, H. 1995. Die Brutvögel des Ochtumsandes (Landkreis Wesermarsch). (Breeding birds at the Ochtumsand). *Vogelkd. Ber. Niedersachs.* 27(2): 57-64. In German with English summary. (Stedinger Landstrasse 98, D-27751, Delmenhorst, Germany). Marshland along the river Weser: breeding birds were mapped in 1986 and 1993-94. Grassland species are declining. *Limosa limosa*, *Vanellus vanellus*, *Tringa totanus*, and *Gallinago gallinago* have disappeared.
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REVIEWS

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Coulson, J. & Crockford N.J. (eds) 1995. Bird conservation: the science and the action. *Ibis* 137 Supplement 1. (ISSN 0963-0856)

This *Ibis* supplement is the proceedings of the 1994 Annual Conference of the British Ornithologists' Union, attended by 220 ornithologists and conservationists from 23 countries and six continents. The volume comprises over 30 contributions relating to bird conservation and the authors include a number of leading names in both ornithology and conservation. Topics range from the reactive measures involved in endangered species recovery, through diagnosis of negative demographic trends, to the proactive measures associated with population monitoring, landscape ecology and the identification of regional and global conservation priorities. While the contributions vary in their general applicability to different species and/ or regions, and none deals directly with problems of wader conservation *per se*, several papers will be of interest to wader biologists.

After Max Nicholson & Humphrey Crick's interesting account of the history of British ornithology, several papers bear testimony to the impressive extent to which British birds have been monitored. Two of these concentrate on analytical and

modelling approaches which can reliably detect real population decreases and can develop optimal or effective management strategies, and another reviews ways of diagnosing the causes of monitored population decreases, drawing attention to some potential pitfalls.

Threats to bird populations imposed by habitat loss, disturbance and disease or parasites, and the way in which these give rise to population decreases, are addressed through review, observational or monitoring studies and modelling exercises. Robert May draws our attention to the role of disease in regulating bird populations and its particular threats in a conservation context, including its danger in captive programmes, and the potential, when assisted by alternative hosts, of disease to extinguish even rare populations. He also mentions the potential for human-induced "stress", e.g. from disturbance or pollution, to lower birds' immunity to disease. Andrew Dobson and Peter Hudson's study of grouse demonstrates how parasites can lead to reduced fecundity and increased vulnerability to predators. The subject of habitat alteration and loss is particularly close to the hearts of wader biologists: their breeding and feeding habitats have often been treated as wastelands in the past.

Paul Dolman & William Sutherland model the effects of habitat loss on migratory populations, demonstrating that regulation may commonly occur simultaneously on both the breeding and nonbreeding areas: for a wide range of conditions, habitat loss in either area can lead to a reduction in population size. The subject is investigated further by John Goss-Custard and colleagues in a following paper, which is the only one in the

volume concentrating on waders (Eurasian Oystercatchers *Haematopus ostralegus*). Their model, which is based on long-term, detailed studies of a relatively simple ecological system (one species - one prey, and one hemisphere!), uses existing knowledge of individual behaviour in predicting carrying capacity and the consequent mortality that will occur as a result of habitat loss or change. It would be challenging to adapt this potentially useful model to other more complex wader systems. In a further development of the changed habitat theme, Jesper Madsen highlights the magnitude of positive effects of protection of waterfowl habitats from hunting disturbance: not only did waterfowl numbers increase dramatically in experimental reserves over the five year period following their establishment, but their study of Pinkfooted Geese *Anser brachyrhynchus* showed that birds wintering in undisturbed areas fattened more rapidly and subsequently reproduced better than those that wintered in disturbed areas. The results of this study certainly have important implications for the conservation of migratory waders in areas where disturbance pressure is high.

The effect of habitat loss on bird populations is further explored within the framework of landscape ecology, which addresses the effects of large-scale processes such as fragmentation and global warming. Although fragmentation and landscape ecology, partially because of its traditionally terrestrial emphasis, has received little attention from wader biologists in the past, the advances made in this field are certainly applicable to the conservation of both breeding and nonbreeding wader populations. In