

## RECENT PUBLICATIONS ON WADERS 60

*compiled by*  
**Henk Koffijberg**

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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.

### BREEDING

Armstrong, A.R. & Nol, E. 1993. Spacing behavior and reproductive ecology of the Semipalmated Plover at Churchill, Manitoba. *Wilson Bull.* 105(3): 455-464. (Biol. Dept., Trent Univ., Peterborough, Ontario, Canada K9J 7B8). *Charadrius semipalmatus*.

Blomqvist, D. & Johansson, O.C. 1994. Double clutches and uniparental care in Lapwing *Vanellus vanellus*, with a comment on the evolution of double-clutching. *J. Avian Biol.* 25(1): 77-79. (Dept. Zool., Anim. Ecol., Univ. Göteborg, Medicin-regatan 18, S-413 90 Göteborg, Sweden).

Bönisch, R. & Möhrlein, E. 1993. Späte Brut des Waldwasserräufers *Tringa ochropus* in der nördlichen Oberpfalz. [Late occurrence

of brood in Green Sandpiper *Tringa ochropus* in Bavaria]. *Orn. Anz.* 32(1/2): 74. In German. (Gummelbergweg 3, 8595 Kondrau, Germany).

Boschert, M. & Rupp, J. 1993. Brutbiologie des Grossen Brachvogels (*Numenius arquata*) in einem Brutgebiet am südlichen Oberrhein. (Breeding biology of Curlew *Numenius arquata* at a breeding site in the southern Upper Rhine valley). *Vogelwelt* 114(5): 199-221. In German with English summary. (Wiedigstr. 18, D-77815 Bühl, Germany). Breeding biology of *Numenius arquata* and effects of disturbance on its breeding success were studied from 1977 to 1992.

Bowen, B.S. & Kruse, A.D. 1993. Effects of grazing on nesting by Upland Sandpipers in southcentral North Dakota. *J. Wildl. Manage.* 57(2): 291-301. (US Fish & Wildl. Serv., North. Prairie Wildl. Res. Ctr., Jamestown, ND 58401, USA). *Bartramia longicauda*.

Chang Jiachuan ...[et al.] 1992. [Reproduction of Eurasian Woodcock in Maershan forest farm]. *Chin. Wildl.* No. 4: 26. In Chinese. *Scolopax minor*, China.

Delaporte, P., Dubois, P.J. & Robreau, H. 1993. La saga des echasses blanches. [The Black-winged Stilts]. *L'Oiseau* 31: 22-27. In French. Migration and breeding of *Himantopus himantopus* in France.

Groen, N.M. 1992. De broedbiologie van de Grutto in relatie tot het beheer van graslanden. Deel 1: broedplaatstrouw. (Breeding site tenacity and philopatry in the Black-tailed Godwit *Limosa limosa*). Utrecht: Directie Beheer Landbouwgronden, 53 p. In Dutch with English summary. (Paardenkamp 49, 1541 XN Koog aan de Zaan, Netherlands). Breeding site tenacity has been studied on an individually marked *Limosa limosa* population at a wet farmland reserve in the province of Noord-Holland, Netherlands.

Groen, N.M. 1993. Breeding site tenacity and natal philopatry in the Black-tailed Godwit *Limosa l. limosa*. *Ardea* 81(2): 107-113. (Inst. Systematics and Population Biol., Univ. Amsterdam, P.O. Box 94766, 1090 GT. Amsterdam, Netherlands). Data on factors affecting both breeding site tenacity and natal philopatry in a marked population of *Limosa limosa* in the Netherlands.

Lauro, B. & Nol, E. 1993. The effect of prevailing wind direction and tidal flooding on the reproductive success of Pied Oystercatchers *Haematopus longirostris*. *Emu* 93: 199-202. (Dept. Biol., Queens

Univ., Kingston, Ontario, Canada K7L 3N6)

Melnikov, Yu.I. 1990. [Data on the Asiatic Dowitcher]. In: *Results of the studies of rare animals*. Moscow, p. 57-64. In Russian *Limnodromus semipalmatus*.

Newman, M. & Park, P. 1993. Hooded Plovers - further breeding information including association with Pied Oystercatchers. *Stilt* 23: 12-14. (7 Glenurie Close, Woodville, NSW 2321, Australia). *Charadrius rubricollis* and *Haematopus longirostris*.

Pampush, G.J. & Anthony, R.G. 1993. Nest success, habitat utilization and nest-site selection of Long-billed Curlews in the Columbia Basin, Oregon. *Condor* 95(4): 957-967. *Numenius americanus*.

Parr, R. 1993. Nest predation and numbers of Golden Plovers *Pluvialis apricaria* and other moorland waders. *Bird Study* 40(3) 223-231. (Inst. Terr. Ecol., Hill of Brathens, Banchory AB31 4BY, UK). Removal of predators as crows and gulls did not lead to increases in the breeding populations of *Pluvialis apricaria* and other waders, although the outcome of the experiment was complicated by rising nest predation from *Vulpes vulpes*.

Prindiville, E.M. 1986. *Habitat selection and productivity of Piping Plovers in central North Dakota*. M.S. Thesis Univ. Mo. (Columbia), 34 pp. *Charadrius melodus*.

Pulliainen, E. & Saari, L. 1993. Breeding biology of the Whimbrel *Numenius phaeopus* in eastern Finnish Lapland. *Ornis Fenn.* 70(2): 110-116. (Dept. Zool., Univ. Oulu, Linnanmaa, SF-90570 Oulu, Finland).

Scheiffarth, G. & Exo, K.-M. 1991. [Territoriality of Oystercatchers (*Haematopus ostralegus*): density-dependent population regulation on a North Sea island]. *Verh. Dtsch. Zool. Ges.* No. 84 p. 325-326. In German. (Inst. Vogel-forschung, An der Vogelwarte 21, D-2940 Wilhelmshaven, Germany).

Schmalz, P.M. 1991. Der grosse Brachvogel im unteren Isartal - Populationsdynamische Untersuchung einer Brachvogelpopulation im Unteren Isartal bei Dingolfing/Niederbayern von 1986-1990. [The Curlew in the Isarvalley - study of population dynamics in a Curlew population in the Lower Isarvalley near Dingolfing/Lower Bavaria from 1986-1990] *Jber. OAG Ostbayern* 18: 153-174. In German. (Hangstr. 12, 84085 Langquaid-Adlhausen, Germany). *Numenius arquata* breeding numbers, breeding success, disturbing factors, size of territories.

- Szekely, T. 1992. Reproduction of Kentish Plover (*Charadrius alexandrinus*) in grasslands and fish-ponds: the habitat mal-assessment hypothesis. *Aquila* 99: 59-67. (Kossuth Univ., Dept. Zool., Debrecen, H-4010, Hungary).
- Szekely, T. & Lessells, C.M. 1993. Mate change by Kentish Plovers *Charadrius alexandrinus*. *Ornis Scand.* 24(4): 317-322. Mating system of *Charadrius alexandrinus* was studied in Hungary in 1988-1991. Recorded distances suggest that the low reported frequency of mate change may be more a reflection of the high level of breeding dispersal than of the rarity of mate change.
- Underhill, L.G., Prys-Jones, R.P., Syroechkovski, E.E., Groen, N.M., Karpov, V., Lappo, H.G., Roomen, M.W.J. van, Rybkin, A., Schekkerman, et al. 1993. Breeding of waders (Charadrii) and Brent Geese *Branta bernicla bernicla* at Pronchishcheva Lake, northeastern Taimyr, Russia, in a peak and a decreasing lemming year. *Ibis* 135(3): 277-292. (Dept. Stat. Sci., Univ. Cape Town, Rondebosch 7700, South Africa).
- Vermeer, K., Ewins, P.J., Morgan, K.H. & Smith, G.E.J. 1991. Population, nesting habitat, and reproductive success of American Black Oystercatchers on the west coast of Vancouver Island. *Can. Wildl. Serv. Occas. Pap.* No. 75: 65-70. (Can. Wildl. Serv., c/o Inst. Ocean Sci., P.O. Box 6000, Sidney, BC, Canada V8L 4B2). *Haematopus bachmani* in Canada.
- BEHAVIOUR, ECOLOGY & EVOLUTION**
- Berg, Å. 1993. Habitat selection by monogamous and polygamous Lapwings on farmland - the importance of foraging habitats and suitable nest sites. *Ardea* 81(2): 99-105. (Dept. Wildl. Ecol., Swedish Univ. Agric. Sci., Box 7002, S-750 07 Uppsala, Sweden). Relative importance of foraging habitats, both early and late in spring, and suitable nest sites for territory establishment is discussed.
- Berg, Å. 1991. Ecology of Curlews *Numenius arquata* and Lapwings *Vanellus vanellus* on farmland. Ph.D. Thesis, Swedish Univ. Agric. Sci., Uppsala.
- Boschert, M. 1993. Auswirkungen von Modellflug und Strassenverkehr auf die Raumnutzung beim Grossen Brachvogel (*Numenius arquata*). [Effects of disturbance by model aircraft and road traffic on space utilization of the Curlew]. *Z. Ökologie u. Naturschutz* 2: 11-18. In German with English summary. (Wiedigstr. 18, D-77815 Bühl, Germany).
- Chernichko, I.I., Yurchuk, R.N. & Zmienko, A.V. 1992. (Migration of waders on the south-western coast of the Ukraine). In: Seasonal bird migration in the Ukraine territory. Kiev, pp. 164-182. In Russian.
- Clayton, A. 1993. Unusual behavior of Baird's Sandpiper. *Bird Observer* 21(2): 94. *Calidris bairdii*, Massachusetts USA.
- Connors, P.G., McCaffery, B.J. & Maron, J.L. 1993. Speciation in Golden Plovers, *Pluvialis dominica* and *P. fulva*: evidence from the breeding grounds. *Auk* 110(1): 9-20. (Univ. Calif., Davis, Bodega Mar. Lab., P.O. Box 247, Bodega Bay, CA 94923, USA).
- Dann, P. 1993. Abundance, diet and feeding of the Whimbrel *Numenius phaeopus variegatus* in Rhyll Inlet, Victoria. *Corella* 17: 52-57. (Penguin Res., Com. Management, P.O. Box 97, Cowes, Philip Island, Vic., 3922, Australia).
- Dann, P. 1993. Data exchange: sexual dimorphism in bill lengths of Whimbrel *Numenius phaeopus variegatus*. *Corella* 17: 57.
- Dierschke, V. 1993. Food and feeding ecology of Purple Sandpipers *Calidris maritima* on rocky intertidal habitats (Helgoland, German Bight). *Neth. J. Sea Res.* 31(4): 309-317. (Vogelwarte Helgoland, P.O. Box 1220, D-27494 Helgoland, Germany). Aim of the study was to test whether feeding conditions on rocky shores were really constant and favourable and to understand the energetics of a northerly wintering strategy.
- Dittberner, H. & Dittberner, W. 1993. Rastplatzökologie des Goldregenpfeifers (*Pluvialis apricaria*) in der Uckermark [Ecology of Eurasian Golden Plover (*Pluvialis apricaria*) on staging sites in the Uckermark]. *Beitr. Vogelkd.* 39(4): 227-247. In German. (Rotenseestr. 16, D-18528 Bergen/Rügen, Germany).
- Driedzic, W.R., Crowe, H.L., Hicklin, P.W. & Sephton, D.H. 1993. Adaptations in pectoralis muscle, heart mass, and energy metabolism during premigratory fattening in Semipalmated Sandpipers (*Calidris pusilla*). *Can. J. Zool.* 71(8): 1602-1608. (Biol. Dept., Mount Allison Univ., Sackville, NB, Canada E0A 3C0).
- Ens, B.J., Safriel, U.N. & Harris, M.P. 1993. Divorce in the long-lived and monogamous Oystercatcher *Haematopus ostralegus*: incompatibility or choosing the better option? *Anim. Behav.* 45(5): 1199-1217. (Inst. For. & Nat. Res. (IBN-DLO), P.O. Box 167, 1790 AD Den Burg, Texel, Netherlands).
- Estelle, V.B. 1992. Foraging of Sanderlings (*Calidris alba*) in response to aggregations of *Emerita analoga megalopae*. M.S. Thesis San Jose State Univ., 50 pp.
- Evans, M.I. & Keijl, G.O. 1993. Spring migration of coastal waders through the Saudi Arabian Gulf in 1991. *Sandgrouse* 15: 56-84. (Montrose, Llanddeiniol, Llanrhystyd, Dyfed SY23 5AN, UK). Migration patterns for individual species are described. The coast is particularly important as a refuelling site for *Charadrius mongolus* and *Xenus cinereus*.
- Galbraith, H., Murray, S., Duncan, K., Smith, R., Whitfield, D.P. & Thompson, D.B.A. 1993. Diet and habitat use of the Dotterel *Charadrius morinellus* in Scotland. *Ibis* 135(2): 148-155. (Thompson: Res. & Advis. Serv. Directorate, Scott. Nat. Heritage, Anderson Pl., Edinburgh EH6 5NP, Scotland).
- Gebauer, A. & Nadler, T. 1992. [Behaviour and voice of the Lesser Sandplover *Charadrius mongolus schaeferi*]. *Limicola* 6(3): 105-120. In German with English summary. (Zittauer Str. 43, D-08900 Gorlitz, Germany).
- Gilliland, K.M. 1992. Foraging ecology and body condition of migrant Semipalmated Sandpipers, *Calidris pusilla*, on three mudflats in the Bay of Fundy Hemispheric Shorebird Reserve, Nova Scotia. M.S. Thesis Acadia Univ. (Canada). 89 pp.
- Goede, A.A. 1993. Longevity in homeotherms, the high lifespan and lifespan energy potential in Charadriiformes. *Ardea* 81(2): 81-88. (Interfaculty Reactor Inst., Delft Univ. Tech., Mekelweg 15, 2629 JB Delft, Netherlands). The lifespan potential of homeotherms is described with allometric equations relating body mass of the species to maximal recorded ages. *Haematopus ostralegus*, *Calidris maritima*.
- Goede, A.A. 1993. Variation in the energy intake of captive Oystercatchers. *Ardea* 81(2): 89-97. Food intake of captive *Haematopus ostralegus* was measured, and with an estimated utilization efficiency, the energy uptake from the ingested food calculated.
- Goss-Custard, J.D., West, A.D. & Durell, S.E.A. Le V. D. 1993. The availability and quality of the mussel prey (*Mytilus edulis*) of Oystercatchers (*Haematopus ostralegus*). *Neth. J. Sea Res.* 31(4): 419-439. (Inst. Terrestrial Ecol., Furzebrook Res. Stn., Wareham, Dorset BH20 5AS, UK).

- Gudmundsson, G.A. 1994. Spring migration of the Knot *Calidris c. canutus* over southern Scandinavia, as recorded by radar. *J. Avian Biol.* 25(1): 15-26. (Dept. Ecol., Lund Univ., Ecol. Bldg., S-223 62 Lund, Sweden).
- Hogan-Warburg, A.J. 1992. Female choice and the evolution of mating strategies in the Ruff *Philomachus pugnax* (L.). *Ardea* 80(3): 395-403. (Dept. Psychol., Univ. Toronto, Toronto, Canada M5S 1A1).
- Hulscher, J.B., Jong, J. de & Klinken, J. van 1993. Uitzonderlijke grote aantallen Scholeksters in het binnenland gedurende de winter van 1992/93. (Exceptionally high numbers of inland Oystercatchers during the winter of 1992/93). *Limosa* 66(3): 117-123. In Dutch with English summary. (Univ. Groningen, Zool. Lab., P.O. Box 14, 9750 AA Haren, Netherlands). *Haematopus ostralegus* foraging on inland areas due to lack of food and raised waterlevels in the Wadden Sea. Excessive commercial fishing effort reduced abundance of cockles and mussels during the last three years. Consequently, winter population of Oystercatchers in the Wadden Sea has decreased.
- Hutton, M. & Sloan, B. 1993. Variable Oystercatchers cope with gulls. *Notornis* 40(2): 144. *Haematopus unicolor*.
- Van Impe, J. 1991. Overleving, sterfte en trek van in België geringde jonge Kluten (*Recurvirostra avosetta*). *Gerfaut* 81(3-4): 217-???. In Dutch with English summary. (K.B.I.N., Vautierstr. 29, B-1024 Brussels, Belgium).
- Jacob, J.-P. & Fouarge, J.-P. 1992. Evolution de l'effectif et habitats du Petit Gravelot (*Charadrius dubius*) en Wallonie et dans la region bruxelloise. (Evolution in numbers and habitats of the Little Ringed Plover (*Charadrius dubius*) in Wallonia and the Brussels Region). *Aves* 29 (3-4): 113-136. In French with English summary. (Rue Petit Leez 76, B-5031 Grand-Leez, Belgium).
- James, R.A. Jr. 1991. Sex roles in parental care of the Black-necked Stilt (*Himantopus mexicanus*) in southern California. M.S. Thesis Calif. State Univ. (Long Beach). 97 pp.
- Jukema, J. & Piersma, T. 1993. Hoe rosser de grutto, hoe beter ie trekt. [Why the ruddy godwit is better of as a migrant]. *Limosa* 66(1): 32-34. In Dutch. (Haerdawei 44, 8854 AC Oosterbierum, Netherlands). *Limosa lapponica*, red plumage as indicator for successful migration and breeding?
- Kalejta, B. 1993. Intense predation cannot always be detected experimentally: a case study of shorebird predation on nereid polychaetes in South Africa. *Neth. J. Sea Res.* 31(4): 385-393. (Percy FitzPatrick Inst. African Ornithol., Univ. Cape Town, Rondebosch 7700, South Africa). Aim of the study was to quantify the impact of predation by *Calidris ferruginea* and *Pluvialis squatarola* on populations of nereid worms at the Berg River estuary, South Africa.
- Kalejta, B. 1993. Diets of shorebirds at the Berg River estuary, South Africa: spatial and temporal variation. *Ostrich* 64: 123-133.
- Kramer, D. 1994. Aggressive behaviour of Northern Lapwing towards corpse of Black-headed Gull. *Brit. Birds* 87(2): 90-91. (7 Little Headlands, Putnoe, Bedford MK41 8JT, UK). *Vanellus vanellus*.
- Larsen, T. 1993. Information parasitism in foraging Bar-tailed Godwits *Limosa lapponica*. *Ibis* 135(3): 271-276. (Dept. Ecol., Univ. Bergen, N-5007 Bergen, Norway).
- Lawrence, D. 1993. Spotted Sandpiper displaying to and mating with Common Sandpiper. *Brit. Birds* 86(12): 628. (16 Thomas St., Rastrick, Brighouse, West Yorkshire HD6 3BD, UK). *Actitis macularia* and *A. hypoleucos*.
- Leinaas, H.P. & Ambrose, W.G. Jr. 1992. Utilization of different foraging habitats by the Purple Sandpiper *Calidris maritima* on a Spitsbergen beach. *Fauna Norv. Ser. C. Cinclus* 15(2): 85-91. (Norwegian Inst. Nat. Res., P.O. Box 1037, Blindern, 0315 Oslo, Norway).
- Leuzinger, H. & Jenni, L. 1993. Durchzug des Bruchwasserläufers *Tringa glareola* am Ägelsee bei Frauenfeld. (Migration of Wood Sandpipers *Tringa glareola* at Ägelsee, Switzerland). *Orn. Beob.* 90(3): 169-188. In German with English summary. (Schneit, CH-8523 Hagenbusch, Switzerland). Autumn and spring migration have been studied at a small stopover site in NE Switzerland, 1966-1988. Migration through Switzerland is described based on ringing recoveries.
- Lindström, Å. & Piersma, T. 1993. Mass changes in migrating birds: the evidence for fat and protein storage re-examined. *Ibis* 135(1): 70-78. (Zool. Lab., Univ. Groningen, P.O. Box 14, 9750 AA Haren, The Netherlands).
- Marks, J.S. & Hall, C.S. 1992. Tool use by Bristle-thighed Curlews feeding on Albatross eggs. *Condor* 94(4): 1032-1034. (Coop. Wildl. Res. Unit, Univ. Montana, Missoula, MT 59812, USA). *Numenius tahitiensis* using e.g. stones to open eggs.
- Meissner, W. 1992. Death of waders at ringing points of WRG "Kuling" at the Reda mouth and Rewa. *Ring* 14(1-2): 109-113 (Dept. Vertebrate Ecol. & Zool., Univ. Gdansk, ul. Legionow 9, 80-441 Gdansk, Poland). Death of birds during trapping has been examined, using data of seven years of ringing in the western part of the Gdansk Bay, Poland. A new, more safe, model of wader trap was introduced.
- Miller, E.H. 1992. Acoustic signals of shorebirds. A survey and review of published information. Victoria: Royal British Columbia Museum, ca. 60 pp. (Royal British Columbia Mus., 675 Belleville St., Victoria, British Columbia, V8V 1X4, Canada). ISBN 0-7718-9313-2.
- Moreira, F. 1993. Patterns of use of intertidal estuarine areas by feeding bird assemblages: a study in the Tagus estuary (Portugal). *Ardeola* 40(1): 39-53. (Dept Zool. Antropol., Fac. Ciencias, Bloco C2, Campo Grande, P-1700 Lisboa, Portugal)
- Morozov, V.V. 1993. (Zonal peculiarities of Whimbrel breeding biology). *Ecologya* 2 52-58. In Russian. *Numenius phaeopus*
- Mouritsen, K.N. 1993. Diurnal and nocturnal prey detection by Dunlins *Calidris alpina*. *Bird Study* 40(3): 212-215. (Inst. Biol. Sci., Dept. Ecol. Genetics, Aarhus Univ., Ny Munkegade, Building 540, DK-8000 Aarhus C, Denmark). Results of field experiments suggest that *Calidris alpina* rely on visual prey detection by day and tactile prey detection by night to a larger extent than observations of their foraging technique would initially indicate.
- Mouritsen, K.N. 1994. Day and night feeding in Dunlins *Calidris alpina*: choice of habitat, foraging technique and prey. *J. Avian Biol.* 25(1): 55-62. Diurnal and nocturnal foraging behaviour investigated during autumn migration in Danish Wadden Sea.
- Murphy, D.W. 1983. *Ecology of American Woodcock in central Missouri*. M.S. Thesis Univ. Mo.(Columbia), 170 pp. *Scolopax minor*.
- Nehls, G. & Tiedemann, R. 1993. What determines the densities of feeding birds on tidal flats? A case study on Dunlin, *Calidris alpina*, in the Wadden Sea. *Neth. J. Sea Res.* 31(4): 375-384. (Inst. Haustierkunde Univ. Kiel, Am Botanischen Garten 9, D-24118 Kiel, Germany). Tidal and seasonal pattern of habitat utilization by Dunlin has been studied.

- Ntiemoa-Baidu, Y. 1993. Trends in the use of Ghanaian coastal wetlands by migrating Knots *Calidris canutus*. *Ardea* 81(2): 71-79. (Zool. Dept., Univ. Ghana, P.O. Box 67, Legon, Ghana). Data are presented on distribution, population fluctuations and morphometrics of *Calidris canutus* in Ghana.
- Palmer, P. 1993. Whimbrels perching on overhead electricity cables. *Brit. Birds* 86(12): 627. (72 Grove Rd., Retford, Nottinghamshire DN22 7JN, UK). *Numenius phaeopus*.
- Piersma, T., Hoekstra, R., Dekinga, A., Koolhaas, A., Wolf, P., Battley, P. & Wiersma, P. 1993. Scale and intensity of intertidal habitat use by Knots *Calidris canutus* in the western Wadden Sea in relation to food, friends and foes. *Neth. J. Sea Res.* 31(4): 331-357. (Neth. Inst. Sea Res. NIOZ, P.O. Box 59, 1790 AD Den Burg, Texel, Netherlands) Distribution and abundance of Knots were studied, and the extent to which these can be explained by benthic prey availability and presence of avian predators.
- Piersma, T., Goeij, P. de & Tulp, I. 1993. An evaluation of intertidal feeding habitats from a shorebird perspective: towards relevant comparisons between temperate and tropical mudflats. *Neth. J. Sea Res.* 31(4): 503-512. Macrozoobenthic communities of intertidal soft sediments are reviewed from the perspective of a mollusc-eating shorebird species (*Calidris canutus*).
- Reed, C.E.M., Nilsson, R.J. & Murray, D.P. 1993. Cross-fostering New Zealand's Black Stilt. *J. Wildl. Manage.* 57(3): 608-611. (Dept. Conserv., Private Bag, Twizel, New Zealand). *Himantopus novaezelandiae* and *H. himantopus*.
- Roberts, G. & Evans, P.R. 1993. A method for the detection of non-random associations among flocking birds and its application to Sanderlings *Calidris alba* wintering in N.E. England. *Behav. Ecol. Sociobiol.* 32(5): 349-354. (Computing Serv., South Rd., Durham DH1 3LE, UK).
- Roberts, T.H. 1978. Migration, distribution and breeding of American Woodcock. M.S. thesis Univ. Tennessee, 73 pp. *Scolopax minor*.
- Rubega, M.A. & Obst, B.S. 1993. Surface-tension feeding in phalaropes: discovery of a novel feeding mechanism. *Auk* 110(2): 169-178. (Program. Ecol., Evol. & Conserv. Biol., Univ. Nevada, 1000 Valley Rd., Reno 89512, USA). *Phalaropus lobatus*.
- Rubega, M.A. 1993. Foraging efficiency of free-living Red-necked Phalaropes at Mono Lake: a test of the usefulness of laboratory measures of feeding performance. *Pac. Seabird Group Bull.* 20(1): 50. *Phalaropus lobatus*.
- Schmidt, C. & Barthel, P.H. 1993. Die Kleider des Zwergstrandläufers *Calidris minuta* und ihre Variationen. (Plumages of Little Stint *Calidris minuta* and their variation). *Limicola* 7(2): 109-129. In German with English summary. (Barthel: Thieplatz 6A, OT Hollenstedt, D-37154 Northeim, Germany).
- Schreiber, M. 1993. Windkraftanlagen und Watvogel-Rastplätze: Störungen und Rastplatzwahl von Brachvogel und Goldregenpfeifer. [Wind turbines and wader roosts: disturbance and choice of staging areas in *Numenius arquata* and *Pluvialis apricaria*]. *Naturschutz u. Landschaftsplanung* 25(4): 133-139. In German. (Vernetzende Umweltplanung, Lange Strasse 50, 49080 Osnabrück, Germany). Disturbance effects of wind turbines, situated along the coast of the German Wadden Sea, have been investigated for choice of resting sites of *Numenius arquata* and *Pluvialis apricaria*. Distribution of resting areas before and after implementation of the turbines has been compared.
- Schutz, M. 1991. [Time dependent aggressive behaviour during courtship in plovers (*Charadrius hiaticula*)]. *Ecol. Birds* 13(2): 187-191. In German with English summary. (Kopernikusstr. 33, D-1034 Berlin, Germany).
- Skagen, S.K., Knopf, F.L. & Cade, B.S. 1993. Estimation of lipids and lean mass of migrating Sandpipers. *Condor* 95(4): 944-956.
- Sloan, M.C. 1976. *An evaluation of Louisiana pine sites as diurnal cover for American Woodcock*. M.S. Thesis Louisiana State Univ., 75 pp. *Scolopax minor*.
- Smith, K.G. & Connors, P.G. 1993. Postbreeding habitat selection by shorebirds, water birds, and land birds at Barrow, Alaska: a multivariate analysis. *Can. J. Zool.* 71(8): 1629-1638. (Dept. Biol. Sci., Univ. Arkansas, Fayetteville 72701, USA). *Phalaropus fulicaria*, *Calidris pusilla*, *C. alpina*, *C. mauri*.
- Sterbetz, I. 1992. Foods of Dunlin (*Calidris alpina*) in Hungary. *Aquila* 99: 49-57.
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