

Recent Publications on waders

compiled by Henk Koffijberg

In trying to make these lists as complete as possible, and the next one even more complete and up to date, your help is most welcome. Please send new titles, abstracts, reprints, copies, reports, and (important too!) omissions or corrections to: Henk Koffijberg, Glenn Millerweg 102, 1311 RW Almere, The Netherlands.

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 T. Piersma, I. Bainbridge, D.A. Stroud, P. Triplet, G. Scheiffarth, G. Nehls, P. Chylarecki, K.-M. Exo.

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 6,800 titles have been stored in the WSG/RPW database. Still not enough, so keep sending more!! (actually, I'm still not receiving every wader paper published)

BREEDING

Blanken, M.S. & Nol, E. 1998. Factors affecting parental behavior in Semipalmated Plovers. *Auk* 115 (1): 166-174. *Charadrius semipalmatus*.

Christiansen, J. 1995. *Brutzeitliche Habitatwahl des Kiebitzes (Vanellus vanellus) auf Grünlandflächen im Beltringharder Koog in Schleswig-Holstein*. [Habitat choice of breeding Lapwings *Vanellus vanellus* at meadows in the Beltringharder Koog, Schleswig-Holstein]. Diplomarbeit, Univ. Osnabrück. In German.

Chylarecki, P., Kuczynski, L., Vogrin, M. & Tryjanowski, P. 1997. Geographic variation in egg measurements of the

Lapwing *Vanellus vanellus*. *Acta orn.* 32 (2): 137-148. (Gdansk Ornithol. Stn., Inst. Ecol., Polish Acad. Sci., Nadwislanska 108, P-80-680 Gdansk 40, Poland, email: pchyl@stornit.gda.pl). Egg size was found to vary significantly with geographic location. Mean egg breadth and volume decreased with longitude and increased with latitude, and this relationship explained 42% and 49% respectively of their variation among study areas.

Dougall, T. 1998. Oystercatcher incubating Lapwing clutch. *Scott. Birds* 19 (3): 181. (62 Leamington Terrace, Edinburgh EH10 4JL, UK). *Haematopus ostralegus* incubating *Vanellus vanellus* eggs.

Downs, C.T. & Ward, D. 1997. Does shading behavior of incubating shorebirds in hot environments cool the eggs or the adults? *Auk* 114 (4): 717-724.

Goldin, M.R. & Regosin, J.V. 1998. Chick behavior, habitat use, and reproductive success of Piping Plovers at Goosewing Beach, Rhode Island. *J. Field Ornithol.* 69 (2): 228-234. *Charadrius melodus*

Gronstol, G.B. 1997. Correlates of eggsize variation in polygynously breeding Northern Lapwings. *Auk* 114: 507-512. *Vanellus vanellus*

Hegyi, Z. & Sasvári, L. 1998. Components of fitness in Lapwings *Vanellus vanellus* and Black-tailed Godwits *Limosa limosa* during the breeding season: do female body mass and egg size matter? *Ardea* 86 (1): 43-50. (Dept. Gen. Zool., Eötvös Univ., Pf/330, Puskin u. 3, H1445 Budapest, Hungary, email: sasvari@abc.hu). Body mass of incubating females, egg sizes, hatching success, hatching masses and brood survival were recorded for individually colourmarked Lapwings and Black-tailed Godwits.

Höglund, J., Widemo, F., Sutherland, W.J. & Nordenfors, H. 1998. Ruffs *Philomachus pugnax* and distribution models: can leks be regarded as patches? *Oikos* 82(2): 370-376.

Hoodless, A.N. & Coulson, J.C. 1998. Breeding biology of the Woodcock *Scolopax rusticola* in Britain. *Bird Study* 45 (2): 195-204. (Game Conserv. Trust, Fordingbridge, Hampshire, SP6 1EF, UK). Nest record cards collected

by the BTO during 1945-1989 were used to examine timing of nesting and brood production of *Scolopax rusticola*.

Hötker, H. 1998. Intraspecific variation in length of incubation period in Avocets *Recurvirostra avosetta*. *Ardea* 86 (1): 33-41. (Forschungs und Technologiezentrum Westküste der Christian-Albrechts-Univ. zu Kiel, Hafentörn, D25761 Büsum, Germany, email: hhoetker@ftz-west.uni-kiel.de)

Kammann, R. & Hötker, H. 1998. Hungern oder Frieren: wann werden junge Säbelschnäbler endotherm? (Starving or freezing: when do young Avocets become endotherm?). *Seevögel* 19 (Sonderheft): 87-89. In German. (Forschungs und Technologiezentrum Westküste der Christian-Albrechts-Univ. zu Kiel, Hafentörn, D-25761 Büsum, Germany). *Recurvirostra avosetta*

Lengignon, A., Bacquet, S. & Triplet, P. 1998. Les effectifs de Vanneaux huppés *Vanellus vanellus* en Plaine Maritime Picarde en 1998. [Breeding numbers of Lapwing *Vanellus vanellus* on the Plaine Maritime Picarde]. *Avifaune Picarde* 5: 101. In French.

Lengyel, S., Robinson, J.A. & Oring, L.W. 1998. Chick recognition in American Avocets: a chick exchange study. *Auk* 115(2): 490-493. *Recurvirostra americana*
Pierce, E.P. & Lifjeld, J.T. 1998. High paternity without paternity assurance behavior in the Purple Sandpiper, a species with high paternal investment. *Auk* 115(3): 602-612. *Calidris maritima*, mating strategies.

Robinson, J.A. & Oring, L.W. 1997. Natal and breeding dispersal in American Avocets. *Auk* 114 (3): 416-430. *Recurvirostra americana*.

Sandercock, B.K. 1998. Chronology of nesting events in Western and Semipalmated Sandpipers near the Arctic Circle. *J. Field Ornithol.* 69 (2): 235-243. *Calidris mauri*, *C. pusilla*

Sandercock, B.K. 1998. Assortive mating and sexual size dimorphism in Western and Semipalmated sandpipers. *Auk* 115(3): 786-790. *Calidris mauri*, *C. pusilla*.

Schekkerman, H., Nehls, G., Hötker, H., Tomkovich, P.S., Kania, W., Chylarecki, P., Soloviev, M. & Van Roomen, M. 1998. Growth of Little Stint *Calidris minuta* chicks on the Taimyr peninsula, Siberia. *Bird Study* 45(1): 77-84. (IBN,

P.O. Box 23, NL6700 AA Wageningen, Netherlands). Hatchling dimensions and growth of chicks up to fledging age are described.

Strowger, J. 1998. The status and breeding biology of the Dotterel *Charadrius morinellus* in northern England during 1972-95. *Bird Study* 45 (1): 85-91. (Cross Hill House, Newsham, Richmond, North Yorkshire, DL11 7RD, UK). Regular migrant but a scarce breeder. In good years up to five pairs may breed.

Tulp, I., Schekkerman, H., Piersma, T., Jukema, J., De Goeij, P. & Van de Kam, J. 1998. *Breeding waders at Cape Sterlegova, northern Taimyr in 1994*. Zeist : WIWO (Foundation Working Group International Wader and Waterfowl Research). WIWO report 61, 87 p. Available from: Stichting WIWO, Fehta 23, NL-3633 CT Vreeland, Netherlands. Price Dfl. 25 + 15 admin. costs, postal giro account 2666009). Cost of incubation and nest incubation schedules in *Calidris canutus* were studied. Other research included monitoring of breeding bird densities, recording breeding success of waders, recording seasonal abundance of arthropod fauna, trapping and ringing of adult waders. Waders studied: *Pluvialis squatarola*, *Charadrius hiaticula*, *Arenaria interpres*, *Calidris alba*, *C. minuta*, *C. maritima*, *C. ferruginea*.

BEHAVIOUR, ECOLOGY & EVOLUTION

Arnold, R.W. 1998. Whimbrels thermalling. *Brit. Birds* 91(5): 198. (8 Helen Terrace, Y Felinheli, Gwynnedd LL56 4SZ, UK). *Numenius phaeopus*.

Baker-Gabb, D. 1998. Native grasslands and the Plainswanderer. *Wingspan* 8(1): I-VIII. Birds Australia Conservation Statement No. 1 on the biology, conservation and management of the *Pedionomus torquatus*.

Barter, M. & Minton, C. 1998. Can premigratory weight gain rates be used to predict departure weights of individual waders from northwestern Australia?. *Stilt* 32: 5-15. (21 Chivalry Ave., Glen Waverley, VIC. 3150, Australia). Species selected for analysis: *Calidris ruficollis*, *C. ferruginea*, *Xenus cinereus*, *Charadrius leschenaultii*, *Heteroscelus brevipes*, *C. canutus*, *C. tenuirostris*, *Limosa lapponica*.

Blühdorn, I. 1998. Auswirkungen potentieller Störreize auf das Verhalten brütender und jungführender Kiebitze *Vanellus vanellus*. (The impact of potential disturbances on the behaviour of Lapwings *Vanellus vanellus* during incubation and chick rearing). *Vogelwelt* 119 (2): 105-113. In German with English summary. (Westfälische Wilhelms Univ. Münster, Inst. Neuro & Verhaltensbiol., Abt. Verhaltensbiol., Badestr. 13, D-48149 Münster, Germany)

Bruinzeel, L.W. & Piersma, T. 1998. Cost reduction in the cold: heat generated by terrestrial locomotion partly substitutes for thermoregulation costs in Knots *Calidris canutus*. *Ibis* 140: 323-328. (Zool. Lab., Univ. Groningen, P.O. Box 14, NL-9750 AA Haren, Netherlands)

Butler, R.W., Williams, T.D., Warnock, N. & Bishop, M.A. 1997. Wind assistance: a requirement for migration of shorebirds? *Auk* 114 (3): 456-466.

Dierschke, V. 1998. Site fidelity and survival of Purple Sandpipers *Calidris maritima* at Helgoland (SE North Sea). *Ring. & Migr.* 19 (1): 41-48.

Dierschke, V. 1998. High profit at high risk for juvenile Dunlins *Calidris alpina* stopping over at Helgoland (German Bight). *Ardea* 86 (1): 59-69. (Inst. Vogelforschung 'Vogelwarte Helgoland', P.O. Box 1220, D-27494 Helgoland, Germany, email: volker-ivf@t-online.de). Adult birds avoid Helgoland as a staging site probably due to a high predation risk of migrating birds of prey.

Dierschke, V. 1997. *Unterschiedliches Zugverhalten alter und junger Alpenstrandläufer Calidris alpina: Ökologische Untersuchungen und Rastplätzen der Ostsee, des Wattenmeeres und auf Helgoland*. [Different migration patterns of adult and juvenile Dunlins *Calidris alpina*: ecological studies at staging areas in the Baltic, the Wadden Sea and at Helgoland]. Göttingen : Cuvillier Verlag. In German.

Dierschke, V. 1998. Anthropogene und natürliche Störreize für Küstenvögel im Windwatt von Hiddensee. (Human and natural disturbing factors at a wind flat at Hiddensee (German Baltic Sea coast). *Seevögel* 19 (Sonderheft): 53-56. In German with English summary. Disturbance by air traffic, boat traffic, pedestrians, and raptors.

Dodd, S.L. & Colwell, M.A. 1998. Environmental correlates of diurnal and nocturnal foraging patterns of nonbreeding shorebirds. *Wilson Bull.* 110 (2): 182-189.

Douglas III, H.D. 1998. Response of Eastern Willets (*Catoptrophorus s. semipalmatus*) to vocalizations of Eastern and Western (*C. s. inornatus*) Willets. *Auk* 115 (2): 514-518.

Ezealor, A.U. & Giles Jr., R.H. 1997. Wintering Ruffs *Philomachus pugnax* are not pests of rice *Oryza* spp. in Nigeria's Sahelian wetlands. *Wildfowl* 48: 202-209. (Giles Jr.: Dept. Fish. & Wildl. Sci., Virginia Polytechnic Inst. & State Univ., Blacksburg, Virginia, 2406-10321, USA). Food and feeding habits of wintering Ruffs were investigated by analysing gut contents and observing foraging habits in the field.

Fitzpatrick, S. & Bouchez, B. 1998. Effects of recreational disturbance on the foraging behaviour of waders on a rocky beach. *Bird Study* 45(2): 157-171 (Sch. Appl. Biol. & Chem. Sci., Univ. Ulster, Newtownabbey, C. Antrim, BT37 0QB, UK). Types and extent of human recreational disturbances on a beach and their effects on the foraging behaviour of *Haematopus ostralegus*, *Numenius arquata* and *Tringa totanus* were studied.

Garr, J.J. 1998. Reaction of Common Greenshanks and Eurasian Curlew to Grey Squirrel. *Brit. Birds* 91(4): 140. (1 Widbury Rd., Pennington, Lymington, Hampshire SO41 8EF, UK.) *Numenius arquata* and *Tringa nebularia* escorting a squirrel.

Hockey, P.A.R., Turpie, J.K. & Velásquez, P. 1998. What selective pressures have driven the evolution of deferred northward migration by juvenile waders? *J. Avian Biol.* 29(2): 325-330. (Percy FitzPatrick Inst. Afr. Ornithol., Univ. Cape Town, Rondebosch, South Africa 7701, email: phockey@botzoo.uct.ac.za). It is suggested that the low foraging proficiency of young waders is an important factor in the evolution of deferred migration by some small to medium-sized waders. It is further suggested that the probability of successful breeding by late arriving long-distance migrants is so low that the risk of first-year birds dying on northward migration doesn't have to be high for the behaviour to be selected against and thus be lost from the population.

- Hockey, P.A.R., Pagányi, E.E., Turpie, J.K. & Phillips, T.E. 1996. Foraging behaviour of Crab Plovers *Dromas ardeola* at Mida Creek, Kenya. *Ostrich* 67: 33-44.
- James, R.M.R. 1998. Common Redshanks using trees as highwater roost. *Brit. Birds* 91(4): 139. (10 Eastbrae Rd., Littleover, Derby DE23 7WA, UK). *Tringa totanus*.
- Joest, R. & Hötter, H. 1998. Der Einfluss des Wetters auf den Energiehaushalt junger Säbelschnäbler *Recurvirostra avosetta*. [Influence of weather on the energy budget of young Avocets *Recurvirostra avosetta*]. *Seevögel* 19 (Sonderheft): 90. In German. (Forschungs und Technologiezentrum Westküste der Christian Albrechts Univ. zu Kiel, Hafentörn, D25761 Büsum, Germany).
- Johnson, O.W., Warnock, N., Bishop, M.A., Bennett, A.J., Johnson, P.M. & Kienholz, R.J. 1997. Migration of radiotagged Pacific Golden Plovers from Hawaii to Alaska, and their subsequent survival. *Auk* 114 (3): 521-524. *Pluvialis fulva*
- Kersten, M., Bruinzeel, L.W., Wiersma, P. & Piersma, T. 1998. Reduced metabolic rate of migratory waders wintering in coastal Africa. *Ardea* 86(1): 7180. (Ctr. d'études biologiques de Chizé, Ctr. Natl. Recherch. Scientifique, F79360 Villiers en Bois, France, email: kersten@cebc.cnrs.fr).
- Kersten, M. & Piersma, T. 1998. *Basal metabolic rates of tropically wintering waders*. In: Wolff, W.J. (ed.). The end of the East Atlantic Flyway. Waders in Guinea-Bissau. Report on a cooperative research project in the estuaries of Guinea-Bissau, October 1992-May 1993. WIWO report 39. Zeist : WIWO, p. 39-44.
- Kooiker, G. & Buckow, C.V. 1997. *Der Kiebitz: Flugkünstler im offenen Land*. [The Lapwing: aerial acrobat of the open countryside]. Wiesbaden : AULA Verlag, 144 p. In German. Sammlung Vogelkunde no. 7, ISBN: 3891045581, DM 39,80. *Vanellus vanellus*: distribution, migration, feeding ecology, breeding biology, moult, population dynamics, behaviour, threats, and protection.
- Kruk, M., Noordervliet, M.A.W. & ter Keurs, W.J. 1998. Natal philopatry in the Black-tailed Godwit *Limosa limosa* L. and its possible implications for conservation. *Ring. & Migr.* 19(1): 13-16. (Section Environm. Biol., Inst. Evol. & Ecol. Sci., Leiden Univ., P.O. Box 9516, NL2300 RA Leiden, Netherlands). Most birds in the breeding season which were ringed as chicks were recovered at less than six kilometres from their original ringing site.
- McCaffery, B.J. 1998. Implications of frequent habitat switches in foraging Bar-tailed Godwits. *Auk* 115(2): 4944-496. *Limosa lapponica*.
- Nehls, G., Hertzler, I. & Scheiffarth, G. 1997. Stable mussel *Mytilus edulis* beds in the Wadden Sea - they're just for the birds. *Helgoländer Meeresunters.* 51: 361-372. (Forschungs und Technologiezentrum Westküste Univ. Kiel, Hafentörn, D-25761 Büsum, Germany, email: nabu-inst.nehls@t-online.de). Predation by *Somateria mollissima*, *Haematopus ostralegus* and *Larus argentatus* on natural mussel beds was studied in the Wadden Sea near Königshafen, Germany.
- Nehls, G., Hertzler, I., Ketzenberg, C. & Scheiffarth, G. 1998. *Die Nutzung stabiler Miesmuschelbänke durch Vögel*. (Stable mussel beds as a resource for birds). In: Gätje, C. & Reise, K. (eds.). Ökosystem Wattenmeer - Austausch, -Transport und Stoffumwandlungsprozesse. Berlin : Springer-Verlag, p. 422-435. In German with English summary.
- Piersma, T. & Ramenofsky, M. 1998. Long-term decreases of corticosterone in captive migrant shorebirds that maintain seasonal mass and moult cycles. *J. Avian Biol.* 29 (2): 97-104. (Neth. Inst. Sea Res. NIOZ, P.O. Box 59, NL-1790 AB Den Burg, Texel, Netherlands, email: theunis@nioz.nl). Plasma concentrations of corticosterone were compared between captive *Calidris canutus canutus* and *Calidris canutus islandica* over two annual cycles. *Islandica* knots maintained the schedules of moult and body mass changes of their counterparts in the wild over the two years. *Canutus*-knots showed deviations from normal annual rhythms.
- Piersma, T. & Gill Jr., R.E. 1998. Guts don't fly: small digestive organs in obese Bar-tailed Godwits. *Auk* 115(1): 196-203. *Limosa lapponica*
- Piersma, T. 1998. *Observations on the food and foraging of Knots*. In: Wolff, W.J. (ed.). The end of the eastatlantic flyway. Waders in Guinea-Bissau. Report on a cooperative research project in the estuaries of Guinea-Bissau, October 1992 - May 1993. WIWO report 39. Zeist : WIWO, p. 45-47. *Calidris canutus*.
- Scheiffarth, G. & Nehls, G. 1997. Consumption of benthic fauna by carnivorous birds in the Wadden Sea. *Helgoländer Meeresunters.* 51: 373-387. (Forschungs und Technologiezentrum Westküste Univ. Kiel, Hafentörn, D25761 Büsum, Germany). Consumption was estimated for the Sylt-Romo inlet in the northern part of the Wadden Sea, as well as a small tidal bay near Königshafen. Feeding waders: *Haematopus ostralegus*, *Recurvirostra avosetta*, *Pluvialis apricaria*, *Calidris canutus*, *C. alpina*, *Limosa lapponica*, *Numenius arquata*.
- Scheiffarth L., G. 1998. Das Rätsel der Sandbank: wo gehen Pfuhschnepfen *Limosa lapponica* auf Nahrungssuche? [The riddle of the sands: where do Bar-tailed Godwits *Limosa lapponica* go to search for food]. *Seevögel* 19 (Sonderheft): 86.
- Summers, R.W., Piersma, T., Strann, K.B. & Wiersma, P. 1998. How do Purple Sandpipers *Calidris maritima* survive the winter north of the Arctic circle. *Ardea* 86 (1): 51-58. (Lismore, Mill Crescent, North Kessock, Inverness IV1 1XY, Scotland). *Calidris maritima* wintering in Norway eat and process a greater amount of food than birds wintering in Scotland. In this way, the additional energy demands for thermoregulation in a colder environment are probably met.
- Thompson, J.J.. 1998. Interseasonal changes in shorebird habitat specialisation in Moreton Bay, Australia. *Emu* 98 (2): 117-126. (Zool. Dept., Univ. Queensland, St Lucia, Qld 4067 Australia). Species diversity and measures of habitat specialisation supported the prediction that shorebirds are more concentrated within preferred habitat during the northward compared with the southward migration, and that the size of this change is related to the respective degree of specialisation of each species.
- Triplet, P., Fagot, C., Bacquet, S., Desprez, M., Lengignon, A., Locquet, N., Sueur, F. & Oget, E. 1998. *Les*

relations Coque, Huïtrierpie, Homme en Baie de Somme. [The relationship between Cockles, Oystercatchers, and Humans in the baie de Somme]. [S.I.] : Syndicat Mixte pour l'Aménagement de la Cote Picarde, 148 p. In French. (SMACOPI, Réserve Naturelle dela Baie de Somme, Stn. Biol. de Blanquetaque, 1 place de l'Amiral Courbet, F80100 Abbeville, France, email: blanquetaque@dyadel.net). Human and *Haematopus ostralegus* predation on cockles.

Urfi, A.J., Goss-Custard, J.D. & Durell, S.E.A. Le V. dit 1996. The ability of Oystercatchers *Haematopus ostralegus* to compensate for lost feeding time: field studies on individually marked birds. *J. Appl. Ecol.* 33: 873883.

DISTRIBUTION & FAUNISTICS

Arbeitskreis Feuchtwiesenschutz Westniedersachsen 1998. *Wiesenvögel im westlichen Niedersachsen*. [Meadowbirds in western Lower Saxony]. Osnabrück : Arbeitskreis Feuchtwiesenschutz, 266 p. In German. (AK Feuchtwiesenschutz, c/o NABU, Am Schölerberg 8, D-49082 Osnabrück, Germany). On development of breeding numbers of *Gallinago gallinago*, *Limosa limosa*, *Tringa totanus*, *Vanellus vanellus*, *Numenius arquata*, *Haematopus ostralegus* in the Weser-Ems area of Lower Saxony, Germany. ISBN: 3930155052, price: DM 20.

Asbirk, S., Kjeldsen, J.P., Rasmussen, P. & Salvig, J. 1998. *Numbers and densities of coastal birds*. In: Wolff, W.J. (ed.). *The end of the East Atlantic Flyway*. Waders in Guinea-Bissau. Report on a cooperative research project in the estuaries of Guinea-Bissau, October 1992-May 1993. WIWO report 39. Zeist : WIWO, p. 5-8. Comparison of estimated numbers of waders in 1986/87 and in 1993.

Bradshaw, C. & Lansdown, P.G. 1998. A report of the Long-toed Stint on South Uist. *Brit. Birds* 91(5): 180-184. (9 Tynemouth Place, North Shields, Tyne & Wear NE30 4BJ, UK). *Calidris subminuta* on the Outer Hebrides. Not accepted by the Rarities Committee. *Calidris minutilla* not sufficiently excluded. Photographs of *C. minutilla* in different plumages.

Chandler, R.J. 1998. Dowitcher identification and ageing. A photographic review. *Brit. Birds* 91(3):

93-106. (2 Rusland Ave., Orpington, Kent, BR6 8AU, UK). Description of *Limnodromus griseus*, *L. scolopaceus*, *L. semipalmatus*. Colour photographs of different plumages.

Christensen, K. & Soby, E. 1998. Fugle i Danmark 1996. Årsrapport over observationer. (The Danish Bird Report 1996). *Dansk Orn. Foren. Tidsskr.* 92(2): 201-248. In Danish with English summary. (Dansk Ornitologisk Forening, Vesterbrogade 140, DK-1620 Copenhagen V, Denmark). Summary of occurrence in Denmark of bird species which generally are not subjects of systematic monitoring schemes. Waders: *Charadrius dubius*, *C. alexandrinus*, *C. morinellus*, *Calidris temminckii*, *C. minuta*, *C. maritima*, *Limicola falcinellus*, *Phalaropus lobatus*, *P. fulicarius*.

Collins, P. & Jessop, R. 1998. Wyndham, an important area for Sharptailed Sandpiper in the north-west of Australia? *Stilt* 32: 41-44. (P.O. Box 97, Cowes, VIC. 3922, Australia). *Calidris acuminata*: ca. 3,500 birds in early May in Western Australia. About 75-100% in breeding plumage.

Van Dijk, A.J., Hustings, F., Sierdsema, H. & Meijer, R. 1997. *Kolonievogels en zeldzame broedvogels in Nederland in 1995*. [Colonial and rare breeding birds in The Netherlands in 1995]. SOVON monitoringrapport 1996/97, Beek-Ubbergen : SOVON, 63 p. In Dutch with English summary. (Rijksstraatweg 178, NL6573 DG Beek-Ubbergen, Netherlands). Breeding waders: *Himantopus himantopus*, *Recurvirostra avosetta*, *Charadrius dubius*, *C. hiaticula*, *C. alexandrinus*, *Calidris alpina*, *Philomachus pugnax*, *Actitis hypoleucos*, *Arenaria interpres*.

Dinsmore, S.J., Collazo, J.A. & Walters, J.R. 1998. Seasonal numbers and distribution of shorebirds on North Carolina's outer banks. *Wilson Bull.* 110 (2): 171-181.

Engelmoer, M. & Roselaar, C.S. 1998. *Geographical variation in waders*. [S.I.] : Kluwer academic publishers, 344 p. Morphometrical variation of the following species was studied with multivariate statistics: *Charadrius hiaticula*, *C. semipalmatus*, *Pluvialis apricaria*, *P. squatarola*, *Calidris canutus*, *C. alba*, *C. ferruginea*, *C. maritima*, *C. alpina*, *Limosa limosa*, *L.*

lapponica, *Numenius phaeopus*, *N. arquata*, *Tringa totanus*, *Arenaria interpres*. Characteristics of various subspecies and populations are quantified. Includes POSCON software. ISBN: 0-7923-5020-0, price: GBP 116, USD 184

Exo, K.-M., Hartwig, E. & Vries, R. de 1998. 1. Deutsches See und Küstenvogelkolloquium 2. und 3. November 1996. in Wilhelmshaven. *Seevögel* 19 (Sonderheft): 7-116. In German with English summaries. (Verein Jordsand, Haus de Natur, Bornkampsweg 35, D-22926 Ahrensburg/Wulfsdorf, Germany). Special issue of the journal *Seevögel*, containing papers presented about conservation issues of coastal birds in the Wadden Sea and the Baltic coast. Special emphasis on *Charadrius alexandrinus*. Wader papers are listed in this issue of *RPW*.

Fisher, D. 1998. The first record of Spotted Redshank *Tringa erythropus* for South America. *Cotinga* 9: 21.

Flore, B.-O. 1998. Bestandsentwicklung von Seeregenpfeifer (*Charadrius alexandrinus*) und Zweggeeschwalbe (*Sterna albifrons*) im niedersächsischen Wattenmeer 1948-1995. (Population development of breeding Kentish Plover (*Charadrius alexandrinus*) and Little Tern (*Sterna albifrons*) in the Wadden Sea of Lower Saxony 1948/1995). *Seevögel* 19(Sonderheft): 57-63. In German with English summary. (Hafkemeyerweg 20, D-49084 Osnabrück, Germany). Dramatic increase of *Charadrius alexandrinus*: estimated 1000 breeding pairs in 1950s, 76 pairs in 1995.

Grant, M. 1997. Breeding Curlews in the UK: RSPB research and implications for conservation. *RSPB Conservation Review* 11: 67-73. (RSPB, The Lodge, Sandy, Bedfordshire SG19 2DL, UK). *Numenius arquata* breeding numbers in Northern Ireland and in the Northern Pennines, UK. Information about breeding success, habitat, predation, and conservation.

Green, R.E., Hodson, D.P. & Holness, P.R. 1997. Survival and movements of Stonecurlews *Burhinus oedicephalus* ringed in England. *Ring. & Migr.* 18 (2): 102-112. (RSPB, 17 Regent Terrace, Edinburgh EH7 5BN, UK). Migration through western France to wintering

areas in Spain, Portugal, Algeria, Morocco and West Africa.

Gromadzka, J. 1997. *Recoveries of waterbirds in Tunisia, February 1994*. In: Van der Have, T.M., Baccetti, N., Keijl, G.O. & Zenatello, M. (eds.). Waterbirds in Kneiss, Tunisia, February 1994. WIWO report 54. Zeist : WIWO, p. 29-35. *Calidris minuta*, *C. ferruginea*, *C. alpina* (origin and migration routes).

Van der Have, T.M., Baccetti, N., Keijl, G.O. & Zenatello, M. (eds.) 1997. *Waterbirds in Kneiss, Tunisia, February 1994*. Zeist : WIWO (Foundation Working Group International Wader and Waterfowl Research). WIWO report 54, 140 p. Available from: Stichting WIWO, Fehta 23, NL-3633 CT Vreeland, Netherlands. Price Dfl. 25 + 15 admin. costs, postal giro account 2666009). The project consisted of two parts: trapping and counting of waterbirds in the Kneiss area, Gulf of Gabes; and a survey of 31 wetlands throughout Tunisia in search of *Numenius tenuirostris*.

Van der Have, T.M., Baccetti, N., Keijl, G.O., Magnani, A. & Ruiters, P.S. 1997. *Waterbird count of Kneiss, Tunisia, February 1994*. In: Van der Have, T.M., Baccetti, N., Keijl, G.O. & Zenatello, M. (eds.). Waterbirds in Kneiss, Tunisia, February 1994. WIWO report 54. Zeist : WIWO, p. 13-22. Numbers of 21 wader species wintering in the Kneiss area. 62 *Limicola falcinellus* were present!

Van der Have, T.M., Baccetti, N., Chernichko, I.I. & Gromadzka, J. 1997. *Wader catching in Kneiss, Tunisia, February 1994*. In: Van der Have, T.M., Baccetti, N., Keijl, G.O. & Zenatello, M. (eds.). Waterbirds in Kneiss, Tunisia, February 1994. WIWO report 54. Zeist : WIWO, p. 23-28.

Van der Have, T.M., Baccetti, N., Chernichko, I.I. & Gromadzka, J. 1997. *Origin and sex ratio of Dunlins wintering in the Gulf of Gabès, Tunisia*. In: Van der Have, T.M., Baccetti, N., Keijl, G.O. & Zenatello, M. (eds.). Waterbirds in Kneiss, Tunisia, February 1994. WIWO report 54. Zeist : WIWO, p. 37-53. Analysis of biometric data of wintering *Calidris alpina*.

Van der Have, T.M. 1997. *Body mass variation in Dunlins wintering in Kneiss, Tunisia*. In: Van der Have, T.M., Baccetti, N., Keijl, G.O. & Zenatello,

M. (eds.). Waterbirds in Kneiss, Tunisia, February 1994. WIWO report 54. Zeist : WIWO, p. 5567. *Calidris alpina*.

Van der Have, T.M., Keijl, G.O. & Ruiters, P.S. 1997. *Searching for Slenderbilled Curlews in Tunisia, February-March 1994*. In: Van der Have, T.M., Baccetti, N., Keijl, G.O. & Zenatello, M. (eds.). Waterbirds in Kneiss, Tunisia, February 1994. WIWO report 54. Zeist : WIWO, p. 101-109. *Numenius tenuirostris*.

Hötcker, H. 1998. Entwicklung der Vogelbestände im Beltringharder Koog. [Development of bird populations in the Beltringharder Koog]. *Seevögel* 19 (Sonderheft): 30. In German. (Forschungs und Technologiezentrum Westküste der Christian-Albrechts- Univ. zu Kiel, Hafentörn, D-25761 Büsum, Germany, email: hhoetker@ftzwest.unikiel.de) *Recurvirostra avosetta*, *Vanellus vanellus*.

Jaramillo, A. & Henshaw, B. 1995. Identification of breeding plumaged Long- and Short-billed Dowitchers. *Birding World* 8: 221-228. *Limnodromus scolopaceus*, *L. griseus*.

Jukema, J. & Hulscher, J.B. 1997. De wilsterflapper als meter van populatieschommelingen bij de Goudplevier *Pluvialis apricaria*. (The fowler as measurer of population changes of the Golden Plover *Pluvialis apricaria*). *Limosa* 70(4): 179-189. In Dutch with English summary. (Haerdawei 44, NL8854 AC, Oosterbierum, Netherlands)

Koks, B.J. 1998. Een mogelijk broedgeval van een Steenloper *Arenaria interpres* in het Nederlandse Waddengebied. (Possible breeding attempt of Turnstone *Arenaria interpres* in the Dutch Wadden Sea). *Limosa* 71 (1): 35-35. In Dutch with English summary. (SOVON Vogelonderzoek Nederland, Rijsstraatweg 178, NL6573 Beek-Ubbergen, Netherlands).

Meininger, P.L., Berrevoets, C.M. & Strucker, R.C.W. 1998. *Watervogels in de Zoute Delta 1996/97*. [Waterbirds in the salt waters of the Delta area, SW Netherlands, 1996/97]. Middelburg : Rijksinstituut voor Kust en Zee RIKZ, 89 p. In Dutch with English summary. (RIKZ, P.O. Box 8039, NL-4330 EA Middelburg, Netherlands). Results of monthly counts of waterbirds in the southern Delta area, SW Netherlands.

ISBN 90-369-3402-8, Report RIKZ 98.001. Giving detailed information on the occurrence of many wader species in the Delta area.

Mikhailov, K.E. & Shibnev, Y.B. 1998. The threatened and near-threatened birds of northern Ussuriland, southeast Russia, and the role of the Bikin River basin in their conservation. *Bird Conserv. International* 8: 141-171. (Paleontol. Inst. Russ. Acad. Sci., Profsojuznaja St., 123, Moscow 117647, Russia, email: kmikh@paleo.ru). Distribution, breeding numbers, habitat and status of the following waders: *Charadrius placidus*, *Numenius madagascariensis*.

Minton, C.D.T. 1998. Migratory movements of Curlew Sandpipers *Calidris ferruginea* that spend the nonbreeding season in Australia. *Stilt* 32: 28-40. (165 Dalgetty Rd., Beaumaris, VIC. 3193, Australia). Analysis of 209 overseas recoveries and flag sightings of *Calidris ferruginea* ringed in Australia.

Nehls, G. & Scheiffarth, G. 1998. *Rastvogelbestände im Sylt-Romo Wattenmeer*. (Migratory waterbirds in the Sylt-Romo Wadden Sea). In: Gätje, C. & Reise, K. (eds.). Ökosystem Wattenmeer Austausch, Transport und Stoffumwandlungsprozesse. Berlin : Springer-Verlag, p. 89-94. In German with English summary. (Forschungs und Technologiezentrum Westküste Univ. Kiel, Hafentörn, D-25761 Büsum, Germany, email: nabu-inst.nehls@t-online.de). Most abundant is *Calidris alpina*, and waders in general.

O'Brien, M. 1996. The number of breeding waders in lowland Scotland. *Scott. Birds* 18: 231-241.

O'Brien, M., Newbery, P. & Suddaby, D. 1997. Action for breeding Red-necked Phalaropes in Scotland. *RSPB Conservation Review* 11: 7479. (RSPB, The Lodge, Sandy, Bedfordshire SG19 2DL, UK). Increase of breeding *Phalaropus lobatus* on Fetlar, Shetland. Information on management aspects.

Ogilvie, M. and the Rare Breeding Birds Panel. 1998. Rare breeding birds in the United Kingdom in 1995. *Brit. Birds* 91 (10): 417-447. (Secretary, Rare Breeding Birds Panel, Glencairn, Bruichladdich, Isle of Islay PA49 7UN, UK). Breeding waders: *Recurvirostra avosetta*, *Burhinus oedipnemus*, *Charadrius morinellus*, *Calidris*

temminckii, *Calidris maritima*,
Philomachus pugnax, *Limosa limosa*,
Tringa glareola, *Phalaropus lobatus*.

Rösner, H.-U. 1997. *Strategien von Zug und Rast des Alpenstrandläufers (Calidris alpina) im Wattenmeer und auf den Ostatlantische Zugweg*. [Migration and staging strategies of the Dunlin (*Calidris alpina*) in the Wadden Sea and the east Atlantic Flyway]. Aachen : Shaker Verlag. In German.

Rowlands, B.W., Trueman, T., Olson, S.L., McCulloch, M.N. & Brooke, R.K. 1998. *The birds of St Helena. An annotated checklist*. Tring : British Ornithologists' Union, 259 pp. Detailed information on the occurrence of *Charadrius sanctaehelenae*, and other vagrant and migratory waders. ISBN: 0-907446-20-5.

Sané, F. 1998. L'Oedicnème criard (*Burhinus oedicnemus*) en Alsace : répartition, densité, évolution de la population. [The Stone Curlew in the Alsace : distribution, density and population development]. *Ciconia* 22 (1): 1-17. In French.

Scarton, F., Valle, R., Rusticali, R., Utmar, P. & Grussu, M. 1998. Population growth and range expansion of the Oystercatchers (*Haematopus ostralegus*) breeding in Italy. *Vogelwarte* 39 (3): 190-195. (Via Tevere 82, I-30173 Mestre (VE), Italy). 63 Pairs in 1996.

Scheiffarth, G. & Nehls, G. 1998. *Saisonale und tidale Wanderungen von Watvögeln im Sylt-Romo Wattenmeer*. (Seasonal and tidal movements of shorebirds in the Sylt-Romo Wadden Sea). In: Gätje, C. & Reise, K. (eds.). *Ökosystem Wattenmeer Austausch, Transport und Stoffumwandlungsprozesse*. Berlin : Springer-Verlag, p. 515-528. In German with English summary. (Forschungs und Technologiezentrum Westküste Univ. Kiel, Hafentörn, D-25761 Büsum, Germany). Seasonal and tidal movements were analysed for *Calidris alpina* and *Limosa lapponica*. On a large scale as well as on a small scale, movements are driven by prey availability.

Schulz, R. 1998. Seeregenpfeifer (*Charadrius alexandrinus*) im Wattenmeer: zwischen Überflutung und Prädation. (Kentish Plover (*Charadrius alexandrinus*) in the Wadden Sea between flooding and predation).

Seevögel 19 (Sonderheft): 7174. In German with English summary. (Tiroler Ring 500, D-24147 Kiel, Germany). Breeding habitat, colonialization, distribution, and predation.

Serra, L., Baccetti, N., Cherubini, G. & Zenatello, M. 1998. Migration and moult of Dunlin *Calidris alpina* wintering in the central Mediterranean. *Bird Study* 45(2): 205-218. (Natl. Wildl. Inst., via Ca' Fornacetta 9, I-40064 Ozzano Emilia BO, Italy). Results of monthly counts from 1990-1995 revealed that most birds were present in October and left for the breeding grounds in April and May.

Serra, L., Baccetti, N. & Zenatello, M. 1995. Slender-billed Curlews wintering in Italy in 1995. *Birding World* 8: 295-298. *Numenius tenuirostris*, flock of 19 birds in southern Italy.

Stinson, D.W., Wiles, G.J. & Reichel, J.D. 1997. Occurrence of migrant shorebirds in the Mariana Islands. *J. Field Ornithol.* 68: 42-55.

Strache, R.U. 1998. Brut- und Rastgebiete für Küstenvögel an der Wismarbucht: Bestandsentwicklung, Gefährdungsursachen, Schutzmassnahmen. (Breeding and roosting areas for coastal birds at the Wismarbucht: population trends, endangering and conservation). *Seevögel* 19 (Sonderheft): 41-45. In German with English summary. (Staatliches Amt f. Umwelt und Natur, Schwerin (StAUN), Abt. Naturschutz, Pampower Str. 66/68, D19061 Schwerin, Germany). Breeding waders: *Recurvirostra avosetta*, *Haematopus ostralegus*, *Charadrius hiaticula*, *Vanellus vanellus*, *Gallinago gallinago*.

Sueur, F. 1998. Synthèse ornithologique picarde 1991. [Summary of ornithological records in the Picardy in 1991]. *Avifaune Picarde* 5: 1-48. In French. (9 rue du Champ neuf, Le Bout des Crocs, F80120 Saint-Quentin-Tourmont, France). Information on occurrence and breeding numbers of 31 wader species.

Sueur, F. 1998. Actes ornithologiques 1994 de la Réserve Naturelle de la Baie de Somme. [Ornithological records of 1994 at the nature reserve Baie de Somme]. *Avifaune Picarde* 5: 49-74. In French. Information on the occurrence and breeding numbers of 33 wader species.

Sueur, F. 1998. Actes ornithologiques 1997 de la réserve Authie-Somme. [Ornithological records of 1997 at the nature reserve Authie-Somme]. *Avifaune Picarde* 5: 91-96. In French. Information on the occurrence of nine wader species.

Tanger, D. 1997. Steltlopers in de herfst van 1996 in Noord-Holland. [Waders in the province of Noord-Holland in the autumn of 1996]. *Graspieper* 17 (4): 133-136. In Dutch. (Santpoorterstr, 34, NL-2023 DC Haarlem, Netherlands). Autumn distribution of *Pluvialis apricaria*, *Vanellus vanellus*, and *Numenius arquata*.

Tomkovich, P.S. 1997. Breeding distribution, migrations and conservation status of the Great Knot *Calidris tenuirostris* in Russia. *Emu* 97(4): 265-282. (Zool. Mus., Moscow State Univ., Bolshaya Nikitskaya Str. 6, Moscow 103009, Russia). All known published and unpublished *Calidris tenuirostris* breeding records and probable breeding indications are reviewed.

Triplet, P., Robert, J.C., Sueur, F. & Violet, F. 1998. Chronique ornithologique du Hâble d'Ault (Somme) : année 1997. [Ornithological records from the Hâble d'Ault (Somme) in 1997]. *Avifaune Picarde* 5: 75-90. In French. (SMACOPI, 1 place de l'Amiral Courbet, F-80100 Abbeville, France). Information on the occurrence of 28 wader species.

Valle, R., Rusticali, R., Scarton, F., Utmar, P., Grussu, M. & Vettorel, M. 1997. Status e distribuzione della Beccaccia di mare, *Haematopus ostralegus*, nidificante in Italia. [Status and distribution of breeding Oystercatchers *Haematopus ostralegus* in Italy]. *Riv. ital. Orn.* 67(2): 169-175. In Italian. (Castello 618/E, I-30122 Venezia, Italy)

Volet, B. & Leuzinger, H. 1998. Aussergewöhnliche Ansammlungen von Kiebitz *Vanellus vanellus* und Goldregenpfeifer *Pluvialis apricaria* in der Schweiz während der Heimzugperiode 1996. (Unusual concentrations of Lapwings *Vanellus vanellus* and Golden Plovers *Pluvialis apricaria* in Switzerland during spring migration 1996). *Ornithol. Beob.* 95 (2): 137-142. In German with English summary. (Schweizerische Vogelwarte, CH-6204 Sempach, Switzerland).

- Waters, R. 1998. Half a million wintering Dunlin in 1996/97!. *BTO News* 216/217: 26-27. Results of the Wetland Bird Survey. High numbers of *Calidris alpina*, *C. canutus*, *Limosa lapponica*, *Recurvirostra avosetta*, *Haematopus ostralegus*, *Numenius arquata*, *Pluvialis squatarola*.
- Weston, M.A. 1998. Report of the Birds Australia/AWSG preliminary Latham's Snipe expedition to Japan: results and recommendations. *Stilt* 32: 47-49. (2/63 Alma Ave., Altona Meadows, VIC. 3028 Australia). Breeding *Gallinago hardwickii* on Hokkaido, Japan.
- Wietfeld, J. 1998. Der Grosse Knechtsand im Nationalpark Wattenmeer. (The "Grosser Knechtsand" in the Wadden Sea National Park). *Seevögel* 19 (Sonderheft): 23-26. In German with English summary. (Grosse Strasse 26, D-31246 Lahstedt, Germany). Breeding waders: *Haematopus ostralegus*, *Charadrius hiaticula*, *C. alexandrinus*, *Tringa totanus*.
- Wiles, G.J. 1998. A sighting of a legflagged Grey-tailed Tattler *Heteroscelus brevipes* on Guam, Mariana Islands. *Stilt* 32: 41. (Div. Aquatic & Wildl. Resources, 192 Dairy Rd., Mangilao, Guam, 96923 USA). Ringed in 1992 on eastern Hokkaido, Japan.
- Wilson, J.R. & Barter, M.A. 1998. Identification of potentially important staging areas for 'long jump' migrant waders in the East Asian Australasian Flyway during northward migration. *Stilt* 32: 1627. (13/27 Giles St., Kingston, ACT. 2604, Australia). Current information available on the staging areas of *Calidris tenuirostris*, *C. canutus*, and *Limosa lapponica* between wintering areas in Australia and breeding grounds in Alaska and Russia. Wintermans, G., Duiven, P., Ruiters, P. & Fokker, W. 1998. *Geographical breeding origin, plumage and weight of waders wintering in the Arquipelago dos Bijagos*. In: Wolff, W.J. (ed.) *The end of the East Atlantic Flyway. Waders in Guinea-Bissau. Report on a cooperative research project in the estuaries of Guinea-Bissau, October 1992-May 1993*. WIWO report 39. Zeist : WIWO, p. 9-32. Detailed information on *Pluvialis squatarola*, *Calidris canutus*, *C. ferruginea*, *C. alpina*, *Limosa lapponica*, *Numenius phaeopus*, *Tringa totanus*, *Arenaria interpres*.
- Wolff, W.J. (ed.) 1998. *The end of the East Atlantic Flyway. Waders in Guinea-Bissau. Report on a cooperative research project in the estuaries of Guinea-Bissau. October 1992 - May 1993*. Zeist : WIWO (Foundation Working Group International Wader and Waterfowl Research). WIWO report 39, 94 p. Available from: Stichting WIWO, Fehta 23, NL-3633 CT Vreeland, Netherlands. Price Dfl. 25 + 15 admin. costs, postal giro account 2666009).
- Zenatello, M., Serra, L., Gromadzka, J., Cherubini, G. & Chernichko, I.I. 1997. *Wader trapping and biometrics at Kneiss, Tunisia, February 1994*. In: Van der Have, T.M., Baccetti, N., Keijl, G.O. & Zenatello, M. (eds.). *Waterbirds in Kneiss, Tunisia, February 1994*. WIWO report 54. Zeist : WIWO, p. 69-98. *Charadrius alexandrinus*, *Pluvialis squatarola*, *Calidris minuta*, *C. ferruginea*, *Numenius arquata*, *Tringa totanus*. Numbers, measurements and breeding origin, sex and age, body mass, moult.
- Zöckler, C., Mooij, J.H., Kostin, I.O., Günther, K. & Bräsecke, R. 1997. Notes on the distribution of some bird species on the Taimyr Peninsula. *Vogelwelt* 118 (6): 329-338. (World Conserv. Monitor. Ctr., 219 Huntingdon Rd., Cambridge CB3 0DL, UK). Breeding waders: *Pluvialis squatarola*, *P. fulva*, *P. apricaria*, *Charadrius hiaticula*, *C. morinellus*, *Arenaria interpres*, *Calidris ferruginea*, *C. alpina*, *C. minuta*, *C. ruficollis*, *C. temminckii*, *C. melanotos*, *C. canutus*, *C. maritima*, *Philomachus pugnax*, *Limosa lapponica*, *Phalaropus lobatus*, *P. fulvicarius*, *Gallinago gallinago*, *Lymnocyptes minimus*.

MISCELLANEOUS

- Gudmundsson, G.A. & Alerstam, T. 1998. Why is there no transpolar bird migration? *J. Avian Biol.* 29 (1): 93-96. (Dept. Anim. Ecol., Lund Univ., Ecol. Bldg., S-223 62 Lund, Sweden) Possible explanations: little advantage in transpolar migration; and orientation difficulties prevent migration at the pole.
- Harding, S. 1998. Moreton Bay conservation and management of a wetland. *Stilt* 32: 45-46. (336 Prout Rd., Burbank, QLD. 4156, Australia)
- Hickey, R., Carew, R., Watkins, R., Piersma, T. & Pearson, G. 1998. *Integrated GIS, database management, and environmental visualisation at Roebuck Bay, Western Australia*. In: Adding a spatial dimension to business. National Conference Fremantle Western Australia 24-28 May 1998. Proceedings. p. 353-362. (Sch. Spatl. Sci., Curtin Univ. Technol., GPO Box U 1987, Perth, WA 6845, Australia, email: rrickey@vesta.curtin.edu.au). Aim of the study was to understand the geology and biology of Roebuck Bay such that data generated can be used for planning and environmental impact studies. More information at: <http://www.cage.curtin.edu.au/~rrickey/roebuck/>
- Jessop, R., Collins, P. & Brown, M. 1998. The manufacture of leg flags in the light of experience. *Stilt* 32: 50-52. (P.O. Box 97, Cowes, VIC. 3922, Australia, email: rosj@penguins.org.au)
- Köppen, U. 1998. Küstenvogelschutz in Mecklenburg-Vorpommern heute - Organisation, Probleme und Konzepte. (Protection of coastal waterbirds in Mecklenburg-Vorpommern today organization, problems and concepts). *Seevögel* 19 (Sonderheft): 31-40. In German with English summary. (Beringungszentrale Hiddensee, am LAUN Mecklenburg-Vorpommern, Abt. Naturschutz, Wampener Str., D-17498 Neuenkirchen, Germany). Breeding numbers of: *Recurvirostra avosetta*, *Haematopus ostralegus*, *Charadrius hiaticula*, *Vanellus vanellus*, *Calidris alpina*, *Philomachus pugnax*, *Limosa limosa*, *Tringa totanus*.
- Potel, P., Südbeck, P. & Hälterlein, B. 1998. Wie kommen wir zu einem verbesserten Schutz der Strandvögel im Wattenmeer? (How can we better protect waterbirds in the Wadden Sea?). *Seevögel* 19 (Sonderheft): 75-80. In German with English summary. (Nationalparkverwaltung "Niedersächsisches Wattenmeer", Virchowstr. 1, D-26382 Wilhelmshaven, Germany). Information on population development of breeding *Charadrius alexandrinus* in the Lower Saxonian Wadden Sea.
- Reineking, B. 1998. Welchen Beitrag leistet die trilaterale Wattenmeerzusammenarbeit zum See und Küstenvogelschutz? (What does the trilateral Wadden Sea Cooperation contribute to the protection of sea and coastal birds?). *Seevögel* 19 (Sonderheft): 7-13. In German with English summary. (Gemeinsames

Wattenmeersekretariat, Virchowstr. 1, D-26382 Wilhelmshaven, Germany).

Temme, M. 1998. Naturschutz und Entwicklungskonzept Südstrandpolder auf Norderney: Empfehlungen für landschaftspflegerische Massnahmen. (Concepts and recommendations for future habitat management in the nature reserve "Südstrandpolder" on the East Frisian island of Norderney). *Seevögel*

19(Sonderheft): 17-22. In German with English summary. (Alter Horst 18, D-26548 Nordseebad Norderney, Germany). Breeding waders: *Recurvirostra avosetta*, *Haematopus ostralegus*, *Vanellus vanellus*, *Tringa totanus*.

Triplet, P., Morand, M.E., Bacquet, S., Lahilaire, L., Sueur, F. & Fagot, C. 1998. Activités humaines et

dérangements des oiseaux dans la Réserve naturelle de la baie de Somme. [Human activities and disturbance of birds in the nature reserve Baie de Somme]. *Bull. mens. ONC* 235: 8-15. In French. (SMACOPI, 1, place de l'Amiral Courbet, F-80100 Abbeville, France)

New breeding site of the Wood Sandpiper *Tringa glareola* in Central Europe

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Vogrin, M. 1998. New breeding site of the Wood Sandpiper *Tringa glareola* in Central Europe. *Wader Study Group Bull.* 87: 24-25.

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The Wood Sandpiper *Tringa glareola* has a Holarctic distribution. It breeds mainly in Scandinavia, eastern Europe and in Siberia (Glutz von Blotzheim *et al.* 1977, Cramp 1983, Jarvinen & Vaisanen 1978). Sporadic or local breeding has also occurred to the west and south of these limits (*e.g.* Vaisanen 1997).

In Slovenia, it is a common spring migrant (pers. obs.) A few birds have also been recorded in June and July, particularly in recent years, but no breeding was recorded. (Sere 1985, Geister 1995, M. Vogrin pers.obs.). According to Geister (1990) the Wood Sandpiper was a potential breeder in Slovenia. In this paper I describe the first confirmed breeding record and therefore a new breeding site for this species in Central Europe.

An adult bird in summer plumage with two young was observed in Lovrenska jezera on Mount Pohorje on 11th July 1997. The birds were seen walking along the shore of one small lake, feeding on the ground near the edge of spruce forest *Pinus mugo*. When we approached, two fully fledged young immediately disappeared into the bushes, whereas the adult bird flew to the other small lake. Here, the adult was very nervous, standing at the lake edge and it was therefore possible to observe it very carefully. When we moved, it rapidly disappeared under neighbouring bushes.

Mount Pohorje is the only silicate mountain range in Slovenia and is situated in the northeastern part of the country. The most characteristic habitats on Mount Pohorje are forests and peat bogs. Most of the peat bogs are protected as forest reserves (Jencic 1995). Lovrenska jezera (approximately

46°29' N, 15°19' E is a peat bog 1,510m above sea level, with 20 small lakes, and is the biggest peat bog on Mount Pohorje (approximately 50 ha). The most characteristic plants are *Pinus mugo* and *Sphagnum* sp. Some solitary trees of *Picea abies* and *Sorbus aucuparia* are also present. Among forest phytocenosis, the most common are *Pino mugi-Sphagnetum russowii* and *Pino mugi-Sphagnetum girgensohnii*. The peat bog is surrounded with spruce forest. The area belongs to the alpine phytogeographical region (Marincek 1987).

Other species nesting on Lovrenska jezera peat bog are, for example Black grouse *Tetrao tetrix*, Black Redstart *Phoenicurus ochruros*, Dunnock *Prunella modularis*, Willow Warbler *Phylloscopus trochilus*, Lesser Whitethroat *Sylvia curruca*, Ring Ouzel *Turdus torquatus*, Mistle Thrush *Turdus viscivorus*. Old nests from the last two species could probably serve as a nest for Wood Sandpiper (see Pulliainen & Saari 1991). According to our observations of two fully fledged young in mid July, the laying and hatching period are similar to those in Finnish Lapland (Pulliainen & Saari 1991).

Breeding data of Wood Sandpiper from other parts of Europe, except the north, are rather scarce (Glutz von Blotzheim *et al.* 1977, Kirchner 1978). For example, Dvorak *et al.* (1993) do not provide any data on breeding of Wood Sandpiper in Austria. Breeding data from Central Europe, until now, were available only from the Czech Republic (Vaisanen 1997). Nevertheless, Wood Sandpiper and Green Sandpiper *Tringa ochropus* have already been observed at this locality in the breeding season, although breeding data were not obtained (Sere 1985).