

Shorebird ecology and conservation in the Western Hemisphere



Peter Hicklin, Editor-in-chief

International Wader Studies 8. March 1996

Shorebird ecology and conservation in the Western Hemisphere

**Based on papers presented at a symposium held on 4–5 November 1991
in conjunction with the IV Neotropical Ornithology Congress
in Quito, Ecuador**

**Peter Hicklin, Editor-in-chief
Anthony J. Erskine, Assistant Editor
Joe Jehl, Assistant Editor**

**Published for the Wader Study Group
by the Canadian Wildlife Service, Environment Canada**

This publication may be obtained from the Canadian Wildlife Service, Publications (Ottawa K1A 0H3, Canada) or from the Joint Nature Conservation Committee, Publications Branch (Monkstone House, City Road, Peterborough PE1 1JY, UK).

©1996 by the Wader Study Group (WSG)

Published for the Wader Study Group by the Canadian Wildlife Service, Environment Canada

Front cover: Red Knots on northward migration at Peninsula Valdes, Argentina (photo by R.I.G. Morrison)

ISSN 1354-9944

Contents

Foreword	
<i>G. Castro</i>	5
Preface	
<i>P. Hicklin</i>	6
Acknowledgements	6

Part I

Populations, habitat use and breeding biology of shorebirds in North America

Alaska and its importance to Western Hemisphere shorebirds	
<i>R.E. Gill, Jr. & S.E. Senner</i>	8
Population dynamics of breeding shorebirds in Arctic Alaska	
<i>D.M. Troy</i>	15
The status of Alaska's large shorebirds: a review and an example	
<i>B.J. McCaffery</i>	28
Protection of shorebirds and their habitats on Alaska's North Slope	
<i>M. Gilders</i>	33
Recruitment and the role of reconnaissance in Spotted Sandpipers	
<i>L.W. Oring & J.M. Reed</i>	34
Local and regional differences in habitat utilization by Dunlins <i>Calidris alpina</i> as revealed by radio-telemetry: conservation implications	
<i>N. Warnock</i>	35
Population status of the threatened/endangered Piping Plover in 1991	
<i>S.M. Haig & J. Plissner</i>	39
Preliminary study of shorebird habitat and feeding conditions at Lobos Bay, Sonora, Mexico	
<i>M. Ceroantes Abrego & R.E. Muratalla Contreras</i>	42

Part II

Ecology of migrant and resident shorebird populations in Central and South America

The impact of foraging by sandpipers (Scolopacidae) on populations of invertebrates in the intertidal zone of Chomes Beach, Gulf of Nicoya, Costa Rica	
<i>A.I. Pereira</i>	44
Segregation of roosting habitat in migratory shorebirds on the Pacific coast of Colombia	
<i>L.G. Naranjo & J.E. Mauna</i>	52
Conservation of Charadriiformes on the Peruvian coast	
<i>V. Pulido, J. Jahncke, P. Makamutsu & C. Flores</i>	55
Migratory bird activity in the bay of Lake Titicaca, Puno, Peru	
<i>A.G. Canales</i>	62
Analysis of Red Knot <i>Calidris canutus rufa</i> banding data in Brazil	
<i>P.T.Z. Antas & I.L.S. Nascimento</i>	63
The Chilean Shorebird Network (RECAP)	
<i>M. Sallaberry, E. Tabilo, C. Klesse & J. Abarca</i>	71

Management and conservation of the habitats used by migratory shorebirds at Coquimbo, Chile	
<i>E. Tabilo, R. Jorge, R. Riquelme, A. Mondaca, C. Labra, J. Campusano, M. Tabilo, M. Varela, A. Tapia & M. Sallaberry</i>	79
The Neotropical plovers of Estero El Yali in central Chile	
<i>Y.A. Vilina & M.V. López-Calleja</i>	85
Habitat partitioning and the distribution and seasonal abundances of migratory plovers and sandpipers in Los Alamos, Rio Negro, Argentina	
<i>P.M. Gonzalez</i>	93
Observations on migratory and resident shorebirds in lakes in the highlands of north-western Argentina	
<i>C.D. Laredo</i>	103

Part III

Shorebird foraging ecology and energetics

Nocturnal foraging in shorebirds	
<i>R. McNeil & J.R. Rodríguez S.</i>	114
Energetic constraints on the non-breeding distribution of coastal shorebirds	
<i>T. Piersma</i>	122
Migration and mass change of <i>Calidris fuscicollis</i> in North and South America	
<i>B.A. Harrington, F.J. Leeuwenburg, S.L. Resende, R. McNeil, B.T. Thomas, J.S. Gear & E.F. Martinez</i>	136