

Silvio O. Conte Neotropical Migrant Bird Stopover Habitat Survey
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SELECTED BIBLIOGRAPHY OF MIGRANT BIRD LITERATURE
Last updated January 2005

- ABRAMSKY, Z. AND U. SAFRIEL. 1980. Seasonal patterns in a Mediterranean bird community composed of transient, wintering, and resident passerines. *Ornis Scandinavia* 11: 201-216.
- ABLE, K.P. 1999. Gathering of Angels-Migrating Birds and Their Ecology. Comstock Books, Ithaca, New York.
- ABLE, K.P. 1998. Rapid 'evolution' of migration behavior in the introduced House Finch of eastern North America. *Proceedings of the Royal Society of London* 265:2063-2071.
- ABLE, K.P. 1995. Orientation and navigation: a perspective on fifty years of research. *Condor* 97:592-604.
- ABLE, K.P. and M.A. ABLE. 1990. Calibration of the magnetic compass of a migratory bird by celestial rotation. *Nature* 347: 378-380.
- ABLE, K.P. 1977. Flight behavior of individual passerine nocturnal migrants: A tracking radar study. *Animal Behavior* 25:4. pp. 924-935.
- ABLE, K.P. 1977. The orientation of passerine nocturnal migrants following offshore drift. *Auk* 94: 320-330.
- ABLE, K.P. 1972. Fall migration in coastal Louisiana and the evolution of migration patterns in the Gulf region. *Wilson Bulletin* 84: 231-242.
- ABORN, D.A. and F.R. MOORE. 2004. Activity budgets of summer tanagers during spring migratory stopover. *Wilson Bulletin*. 116: 64-68.
- ABORN, D.A. and F.R. MOORE. 1997. Pattern of movement by Summer Tanagers (*Piranga rubra*) during migratory stopover: a telemetry study. *Behaviour* 134:1077-1100.
- ABORN, D.A. 1994. Correlations between raptor and songbird numbers at a migratory stopover site. *Wilson Bulletin* 106(1): 155-156.
- AIDLEY, D.J. 1981. Animal migration. Proceedings of a Society for Experimental Biology seminar series symposium held in Lancaster, December 1979

- ALERSTAM, T. 1992. Bird migration. *The Quarterly Review of Biology* 67: 404.
- ALERSTAM, T. 1990. Bird migration. Cambridge University Press, N.Y. 420pp (Originally published in Swedish, 1980).
- ALERSTAM, T. 1990. Ecological causes and consequences of bird orientation. *Experientia* 46: 405-415.
- ALERSTAM, T., and A. LINDSTROM. 1990. Optimal bird migration: the relative importance of time, energy, and safety. In *Bird Migration-Physiology and Exophysiology*, E. Gwinner, ed. Springer-Verlag, Berlin. pp 331-351.
- ALERSTAM, T. 1987. Bird migration across a strong magnetic anomaly. *The Journal of Experimental Biology* 130: 63-86.
- ALERSTAM, T. 1981. The course and timing of bird migration. Pages 9-54 In *Animal Migration*, D.J. Aidley, ed. Soc. Exp. Biol. Seminar Series 13. Cambridge University Press, Cambridge.
- ALERSTAM, T. 1979. Wind as a selective agent in bird migration. *Ornis. Scand.* 10: 76-93.
- ALERSTAM, T. 1978. Reoriented bird migration in coastal areas: dispersal to suitable resting grounds? *Oikos* 30: 405-408.
- ATWOOD, J. L. 1992. Inferred destinations of spring migrant Common Yellowthroats based on plumage and morphology. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium*, Woods Hole, Massachusetts, December 6-9, 1989. pp 377-383.
- BAIRD, J. 1999. Returning to the Tropics: The Epic Autumn Flight of the Blackpoll Warbler. Pages 63-78 in *A Gathering of Angels: Ecology and Conservation of Migrating Birds*. (K. P. Able, editor). Cornell University Press.
- BAIRD, J. AND I.C.T. NISBET. 1960. Northward fall migration on the Atlantic coast and its relation to offshore drift. *Auk* 77: 119-149.
- BAIRLEIN, F. 2003. The study of bird migrations: some future perspectives. *Bird Study* 50: 243-253 Part 3.
- BAIRLEIN, F. 1992. Morphology-habitat relationships in migrating songbirds. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium*, Woods Hole, Massachusetts, December 6-9, 1989. 356-369.

- BAIRLEIN, F. 1990. Nutrition and food selection in migratory birds. In *Bird Migration: Physiology and Ecophysiology* (E. Gwinner, ed.) Springer-Verlag, Berlin, Germany.
- BAIRLEIN, F. 1985. Body weights and fat deposition of Palearctic passerine migrants in the Central Sahara. *Oecologia* 66: 141-146.
- BARLEIN, F. 1985b. Efficiency of food utilization during fat deposition in the long distance migratory Garden Warbler, *Sylvia borin*. *Oecologia* 68: 118-125.
- BAIRLEIN, F. 1983. Habitat selection and associations of species in European passerine birds during southward, post-breeding migrations. *Ornis Scan.* 14: 239-245.
- BELTHOFF, J.R. and S.A. GAUTHREAUX, JR. 1991. Partial migration and differential winter distribution of House Finches in the Eastern United States. *Condor* 93: 374-382.
- BERTHOLD, P. 2003. Genetic basis and evolutionary aspects of bird migration. *Advances in the Study of Behavior* 33: 175-229.
- BERTHOLD, P. 1996. *Control of Bird Migration*. Chapman and Hall, London, England.
- BERTHOLD, P. 1993. *Bird Migration: A General Survey*. Oxford University Press, Oxford, England.
- BERTHOLD, P. and A.J. HELBIG. 1992. The genetics of bird migration: stimulus, timing, and direction. *IBIS* 134: 35-40.
- BERTHOLD, P., A.J. HELBIG, and G. MOHR. 1992. Rapid microevolution of migratory behavior in a wild bird species. *Nature* 360: 668-670.
- BERTHOLD, P. and S.B. TERRILL. 1991. Recent advances in studies of bird migration (review). *Annual Review of Ecology and Systematics* 22: 357-378.
- BERTHOLD, P. 1990. Genetics of migration. In *Bird Migration*, E. Weinner ed. Springer-Verlag, Berlin. pp. 269-283.
- BERTHOLD, P. 1986. The control of migration in European warblers. *Acta XIX Intern. Ornithol. Congress.* pp 215-249.
- BERTHOLD, P. and V. QUERNER. 1981. Genetic basis of migratory behavior in European warblers. *Science* 212 (4490): 77-79.
- BERTHOLD, P. 1975. Migration: Control and metabolic physiology. In *Avian Biology*. Vol. 5, pp 77-128. D.S. Farner and J.R. King, eds. Academic Press, NY.

- BERTHOLD, P. 1973. Relationships between migratory restlessness and migration distance in six *Sylvia* species. *Ibis*. 115: 594-599.
- BIBBY, C.F. and R.E. GREEN. 1983. Food and fattening of migrating warblers in some French marshlands. *Ringing and Migration* 4: 175-184.
- BIBBY, C.J., and R.E. GREEN. 1981. Autumn migration strategies of Reed and Sedge Warblers. *Ornis Scand.* 12: 1-12.
- BIBBY, C.F., and R.E. GREEN. 1980. Foraging behavior of migrant Pied Flycatcher, *Ficedula hypoleuca*, on temporary territories. *J. Anim. Ecol.* 49: 507-521.
- BIEBACH, H.W., W. FRIEDREICH, and G. HEINE. 1986. Interaction of body mass, fat foraging and stopover period in trans-Saharan migrating passerine birds. *Oecologia* 69: 370-379.
- BIEBACH, H. 1985. Sahara stopover in migratory flycatchers: fat and food affect the time program. *Experientia* 41: 695-697.
- BIEBACH, H. 1983. Genetic determination of partial migration in the European Robin (*Erithacus rubecula*). *Auk* 100: 601-606.
- BILDSTEIN, K.L. 1999. Racing With the Sun: The Forced Migration of the Broad-winged Hawk. Pages 79-102 in A Gathering of Angels: Ecology and Conservation of Migrating Birds. (K. P. Able, editor). Cornell University Press.
- BINGMAN, V.P., K.P. ABLE, and P. KERLINGER. 1982. Wind drift, compensation, and the use of landmarks by nocturnal bird migrants. *Animal Behavior* 30: 49-53.
- BLAKE, J.G., G.J. NIEMI, and J. M. HANOWSKI. 1992. Drought and annual variation in bird populations. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium*, Woods Hole, MA, December 6-9, 1989. pp 419-430.
- BLEM, C.R. 1980. The energetics of migration. In *Animal Migration, Orientation, and Navigation*. S.A. Gauthreaux, ed. Academic Press, NY. pp 175-224.
- BLEM, C.R. 1976. Patterns of lipid storage and utilization in birds. *Am. Zool* 16: 671-684.
- BLEM, C.R. 1975. Geographic variation in wing-loading of the House Sparrow. *Wilson Bull.* 87: 543-549.
- BOEHNING-GAESE, K. AND R. OBERRATH. 2003. Macroecology of habitat choice in long distance migratory birds. *Oecologia* 137(2): 296-303

- BOEHNING-GAESE, K., M.L. TAPER, and J.H. BROWN. 1993. Are declines in North American insectivorous songbirds due to causes on the breeding range? *Conservation Biology* 7: 76-86.
- BOLAND, J.M. 1990. Leapfrog migration in North American shorebirds: intra- and interspecific examples. *Condor* 92: 284-290.
- BRAND, C.J. 1984. Avian cholera in the central and Mississippi flyways during 1979-1980. *The J. of Wldf. Mgnt.* 48: 399-406.
- BRITTINGHAM, M.C. and S.A. TEMPLE. 1993. When and where are populations of Neotropical migrants limited. *Bulletin of the Ecological Society of America*. 72: 175.
- BUDEN, D.W. 1993. Summer recoveries of banded Neotropical migrants in the West Indies. *Florida Field Naturalist* 21: 11-15.
- CALDER, W.A. 1999. Hummingbirds in Rocky Mountain Meadows. Pages 149-168 in A Gathering of Angels: Ecology and Conservation of Migrating Birds. (K. P. Able, editor). Cornell University Press.
- CALDWELL, L.D., E.P. ODUM, and S.G. MARSHALL. 1963. Comparison of fat levels in migrating birds killed at a central Michigan and a Florida Gulf Coast television tower. *Wilson Bull* 75: 428-434.
- CARLISLE, Jay D. 2004. Habitat associations, relative abundance, and species richness of autumn landbird migrants in southwestern Idaho *Condor* 106 (3): 549-566
- CARMI N., B. PINSHOW, W.P. PORTER, and J. JAEGER. 1992. Water and energy limitations on flight duration in small migrating birds. *Auk* 109: 268-276.
- CARPENTER, F.L., M.A. HIXON, and C.A. BEUCHAT. 1993. Biphasic mass gain in migrant hummingbirds: body composition changes, torpor, and ecological significance. *Ecology* 74: 1173-1182.
- CARPENTER, F.L., PATON, D.C., and HIXON, M.A. 1983. Weight gain and adjustments of feeding territory size in migrant hummingbirds. *Proc. Natl. Acad. Sci. USA* 80: 7259-7263.
- CATRY, P. , V. ENCARNACAO, A. ARAUJO, P. FEARON, A. FEARON, M. ARMELIN, P. DELALOYE. 2004. Are long-distance migrant passerines faithful to their stopover sites? *Journal of Avian Biology* 35 (2): 170-181.

- CHAMPE, C.M., D.J. LEVEY, and E.A. VANDERWERF. 1993. Life history traits do not provide a simple explanation for population declines of Nearctic Neotropical migrants. Bull. of Eco. Soc. of Amer. 74: 189.
- CHEN, C.C. 1996. Foraging behavior and habitat selection of insectivorous migratory songbirds at Gulf coast stopover sites in spring. Ph.D. Dissertation. Louisiana State University, Baton Rouge, LA.
- CHERRY, J.D. 1982. Fat deposition and the length of stopover of migrant White-crowned Sparrows. Auk 99: 725-732.
- CHILD, G.I. 1969. A study of nonfat weights in migrating Swainson's Thrushes (*Hylocichla ustulata*). Auk 86: 327-338.
- CIMPRICH, D. and M. WOODREY. In press. Passerine migrants respond to variation in predation risk during stopover. Animal Behavior.
- CIMPRICH, D. and F.R. MOORE. 1999. Energetic constraints and predation pressure during stopover. Acta XXII Congressus Internationalis Ornithologici.
- COCHRAN W.W., H. MOURITSEN, M. WIKELSKI. 2004. Migrating songbirds recalibrate their magnetic compass daily from twilight cues. SCIENCE 304 (5669): 405-408
- COCHRAN, W.W. 1987. Orientation and other migratory behaviors of a Swainson's Thrush followed for 1500 km. Animal Behavior 35: 927-929.
- CODY, M.L., 1971. Finch flocks in the Mohave desert. Theor. Popul. Biol. 2: 142-158.
- COESEL, P.F.M., S.R. DUQUE, and G. ARANGO. 1988. Distributional patterns in some neotropical desmid species algae *chlorophyta* in relation to migratory bird routes. Rev. Hydrobiol. Trop. 21: 197-206.
- COLLINS, C.T. and R.A. BRADLEY. 1971. Analysis of body weights of spring migrants in southern California: part II. West. Bird Bander 46: 48-51.
- COTTON, P. 2003. Avian migration phenology and global climate change. Proceedings of the National Academy of Sciences of the United States of America 100, no. 21 (October 14, 2003): 12219-12222
- COX, J. Way stations for migrants. Florida Wildlife (March-April):2-4.
- COX, G.W. 1985. The evolution of avian migration systems between temperate and tropical regions of the New World. Amer. Nat. 126: 451-474.

- CROONQUIST, M.J. and R.P. BROOKS. 1991. Use of avian and mammalian guilds as indicators of cumulative impacts in riparian-wetland areas. Env. Mgt. 15: 701-714.
- DABORN, G.R., C.L. AMOS, and M. BRYLINSKY. 1993. An ecological cascade effect: migratory birds affect stability of intertidal sediments. Limnology and Oceanography 38: 225-231.
- DAWSON, W.R., R.L. MARSH, and M.E. YACOE. 1983. Metabolic adjustments of small passerine birds for migration and cold. Amer. J. of Physio. 245: R755-R767.
- DAY, S. 1991. Migrating birds use genetic maps to navigate. New Scientist 130: 21.
- DESANTE, D.F. 1983. Annual variability in the abundance of migrant landbirds on Southeast Farallon Island, California. Auk 100: 826-852.
- DEWOLFE, B.B., G.C. WEST, and L.J. PEYTON. 1973. The spring migration of Gambel's Sparrows through southern Yukon territory. Condor 75: 43-59.
- DIEHL, R.H., R.P. LARKIN, AND J.E. BLACK. 2003. Radar observations of bird migration over the Great Lakes. Auk 120, no. 2 (April 2003): 278-290.
- DINGLE, H. 1996. Migration. The Biology of Life on the Move. Oxford University Press, Oxford, England.
- DOLNIK, V.R. 1990. Bird migration across arid and mountainous regions of Middle Asia and Kazakhstan. In Bird Migration, E. Gwinner, ed. Springer-Verlag, Berlin. pp 368-386.
- DOLNIK, V.R., T.I. BLYUMENTAL. 1967. Autumnal premigratory and migratory periods in the Chaffinch (*Fringilla coelebs*) and some other temperate zone birds. Condor 69: 435-468.
- DUFFY, K. and P. KERLINGER. 1992. Autumn owl migration at Cape May Point, New Jersey. Wilson Bull. 104: 312-320.
- DUNCAN, R.A. 1994. Bird Migration Weather and Fallouts: Including the Migrant Traps of Alabama and Northwest Florida. Published by R.A. Duncan 614 Fairport Dr. Gulf Breeze, Florida, 32651
- DUNN, E. 2002. A cross-Canada comparison of mass change in birds during migration stopover. Wilson Bulletin 114(3): 368-379

- DUNN, E. H. and D.J.T. HUSSELL. 1995. Using migration counts to monitor landbird populations: review and evaluation of current status. Pp. 43-48 in D.M. Power (Ed.), Current Ornithology, Vol. 12. New York: Plenum Press.
- DUNN, P.O., T.A. MAY, and M.A. MCCOLLOUGH. 1988. Length of stay and fat content of migrant Semipalmated Sandpipers in eastern Maine. Condor 90: 824-835.
- DRURY, W.H. and J.A. KEITH. 1962. Radar studies of songbird migration in coastal New England. Ibis 104: 449-489.
- DRURY, W.H. and I.C.I NISBET. 1964. Radar studies of songbird migrants in southeastern New England. Bird Banding 35: 69-119.
- ELLEGREN, H. 1991. Stopover ecology of autumn migrating Bluethroats *Luscinia s. svecia* in relation to age and sex. Ornis Scandinavia 22: 340-348.
- EMLEN, J.T. 1981. Divergency in the foraging responses of birds on two Bahama islands. Ecology 62: 289-295.
- EMLEN, J.T., and M.J. DEJONG. 1981. Intrinsic factors in the selection of foraging substrates by Pine Warblers: a test of an hypothesis. Auk 98: 294-298.
- FAABORG, J., A.D. ANDER, M.E. BALTZ, and W.K. GRAM. 1996. Non-breeding season considerations for the conservation of migratory birds in the Midwest. in F.R. Thompson III, editor. Management of Midwestern landscapes for the conservation of Neotropical migratory birds. USFS General Technical Report NC-187.
- FARNSWORTH, A., S.A. GAUTHREAUX, Jr., and D. VAN BLARICOM. (In press) The density of nocturnal bird migration: A comparison of Doppler radar and acoustic measures. Journal of Avian Biology.
- FASOLA, M., and F. FRATICELLI. 1990. Non-competitive habitat use by foraging passerines during spring migrations. Ethol. Ecol. Evol. 2: 363-371.
- FINCH, D.M. and P. STANGEL, editors. 1993. Status and Management of Neotropical Migratory Birds. Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO. General Technical Report RM-229
- FINCH, D.M. 1991. Population ecology, habitat requirements, and conservation of Neotropical migratory birds. Gen. Tech. Rep. RM-205. USDA Forest Service, Ft. Collins, Colorado.
- FOGDEN, M.P.L. 1972. Premigratory dehydration in the Reed Warbler, *Acrocephalus scripaceus*, and water as a factor limiting migratory range. Ibis 114: 548-552.

- FRANCIS, C.M.; HUSSELL, D.J.T. 1998. Changes in numbers of land birds counted in migration at Long Point Bird Observatory, 1961-1997. *Bird Pop.* 4:37-66.
- FRANCIS, C.M. and F. COOKE. 1986. Differential timing of spring migration in Wood Warblers (*Parulinae*). *Auk* 103: 548-556.
- FREEMARK, K. and B. COLLINS. 1992. Landscape ecology of birds breeding in temperate forest fragments. *Ecology and Conservation of Neotropical Migrant landbirds; Symposium, Woods Hole, MA, December 6-9, 1989.* pp 443-454.
- FRY, C.H., J.S. ASH, and I.J. FERGUSON-LEE. 1970. Spring weights of Palearctic migrants at Lake Chand. *Ibis* 112: 58-82.
- GATES, J.E. and N.R. GIFFEN. 1991. Neotropical migrant birds and edge effects at a forest-stream ecotone. *Wilson Bull.* 103: 204-217.
- GAUTHREAUX, S.A., Jr., and C.G. BELSER. (In press). Radar ornithology and the conservation of migratory birds. In: Ralph, C. J. (eds.) *Proceedings for the Asilomar Conference. USDA Forest Service General Technical Reports, Pacific Southwest Research station.*
- GAUTHREAUX, S.A., Jr., C.G. BELSER, and D. VAN BLARICOM. (In Press, 2002) Using a network of WSR88-D weather surveillance radars to define patterns of bird migration at large spatial scales. In: Berthold, P. and Gwinner, E. (eds.) *Symposium on Avian Migration.* Springer-Verlag, Heidelberg, Germany.
- GAUTHREAUX, S.A., Jr., J.E. MICHI, and C.G. BELSER. (In press). The temporal and spatial structure of the atmosphere and the evolution of bird migration. In: Marra, Peter and Russell Greenberg (Eds.), *Birds of Two Worlds.* John Hopkins University Press, Baltimore, MD.
- GAUTHREAUX, S.A., Jr., and C.G. BELSER. (In press.) Artificial lighting at night and the attraction of migratory birds. *Ecological Consequences of Artificial Night Lighting.* Spring 2004. Rich, C. and Longcore, T. (Eds.). Island Press, LA, CA.
- GAUTHREAUX, S.A., Jr., C.G. BELSER. 2003. OVERVIEW: Radar ornithology and biological conservation. *Auk* 120(2):266-277.
- GAUTHREAUX, S.A., Jr., C.G. BELSER. 2003. Bird movements on Doppler weather surveillance radar. *Birding* 35 (6):616-628.
- GAUTHREAUX, S.A., Jr., C.G. BELSER, and D. VAN BLARICOM. 2003. Using a network of WSR88-D weather surveillance radars to define patterns of bird migration at large spatial

- GAUTHREAUX, S.A., Jr., C.G. BELSER, and A. FARNSWORTH. 2000. How to use Doppler weather-surveillance radar to study hawk migration. In: Bildstein, K. L and D. Klem, Jr. (eds.) Hawkwatching in the Americas, 146-160 pp. HMNA, North Wales, PA, USA.
- GAUTHREAUX, S.A., Jr. 1999. Neotropical Migrants and the Gulf of Mexico: The view from Aloft. Pages 27-50 in A Gathering of Angels: Ecology and Conservation of Migrating Birds. (K. P. Able, editor). Cornell University Press.
- GAUTHREAUX, S.A., Jr. and C.G. BELSER. 1999. Bird migration in the region of the Gulf of Mexico. Pages 1931-1947 in Adams, N.J. & Slotow, R.H. (eds.) Proc. 22 Int. Ornithol. Congr., Durban. Johannesburg: BirdLife South Africa.
- GAUTHREAUX, S.A., Jr. and C.G. BELSER. 1998. Displays of bird movements on the WSR-88D: Patterns and quantification. Weather and Forecasting 13:453-464.
- GAUTHREAUX, S.A., Jr. 1996. Bird migration: Methodologies and major research trajectories (1945-1995). Condor 98(2):442-453.
- GAUTHREAUX, S.A., Jr. 1993. The influence of ecological and climatic dynamics on Neotropical migrants: concluding remarks. Bull. Eco. Soc. of Amer. 74: 246.
- GAUTHREAUX, S.A., Jr. 1991. The flight behavior of migrating birds in changing wind fields: radar and visual analyses. Amer. Zool. 31: 187-204.
- GAUTHREAUX, S.A., Jr. 1982. The ecology and evolution of avian migration systems. In Avian Biology, Vol. 6, pp 93-167. D.S. Farner and J.R. King, eds. Academic Press, NY.
- GAUTHREAUX, S.A., Jr. 1979. Priorities in bird migration studies. Auk 96: 813-815.
- GAUTHREAUX, S.A., Jr. 1972. Behavioral responses of migrating birds to daylight and darkness: A radar and direct visual study. Wilson Bull. 84: 136-148.
- GAUTHREAUX, S.A., Jr. 1971. A radar and direct visual study of passerine spring migration in southern Louisiana. Auk 88: 343-365.
- GAUTHREAUX, S.A., Jr. and K.P. Able. 1970. Wind and the direction of nocturnal songbird migration. Nature 228: 476-479
- GOULD, J.L. 1990. Why birds (still) fly south. Nature 347: 331.
- GRABER, J.W. and R.R. GRABER. 1983. Feeding rates of warblers in spring. Condor

85:139-150.

GRADWOHL, J., and R. GREENBERG. 1982. The effect of single species of avian predator on the arthropods of aerial leaf litter. *Ecology* 63: 581-583.

GREENBERG, R. 1987. Development of dead leaf foraging in a tropical migrant warbler. *Ecology* 68: 130-141.

GREENBERG, R. 1987. Seasonal foraging specialization in the Worm-eating Warbler. *Condor* 89: 158-168.

GREENBERG, R. 1984. Neophobia in the foraging site selection of a Neotropical migrant bird: an experimental study. *Proc. National Academy of Science USA* 81: 3778-3780.

GREENBERG, R. 1980. Demographic aspects of long-distance migration. In Migrant Birds in the Neotropics: Ecology, Behavior, Distribution and Conservation, A. Keast and E.S. Morton, eds. pp 493-504. Smithsonian Institution Press, Wash. D.C.

GREENWOOD, J. 1990. Conservation: What the little birds tell us. *Nature* 343: 22-23.

GREENWOOD, J. 1990. Ornithology: Changing migration behavior. *Nature* 345: 209-210.

GUDMUNDSSON, G.A. 1993. The spring migration pattern of Arctic birds in southwest Iceland, as recorded by radar. *Ibis* 135: 166-176.

GWINNER, E. (ed.) 1990. Bird Migration: Physiology and Ecophysiology. Springer-Verlag, Berlin. 435pp

GWINNER, E. 1990. Circannual rhythms in bird migration: control of temporal patterns and interactions with photoperiod, p. 257-268. In E. Gwinner (ed.) Bird migration. Springer-Verlag, Berlin.

GWINNER, E., H. BIEBACH, and I. KREIS. 1985. Food availability affects migratory restlessness in Garden Warblers (*Sylvia borin*). *Naturwissenschaften* 72: 51-52.

GWINNER, E., H. SCHWABL, and I. SCHWABL-BENZINGER. 1988. Effects of food deprivation on migratory restlessness and diurnal activity in the Garden Warbler *Sylvia borin*. *Oecologia* 77: 321-326.

GWINNER, E. and W. WILTSCHKO. 1978. Endogenously controlled changes in migratory direction of the Garden Warbler, *Sylvia borin*. *J. Comp. Physio.* 125: 267-273.

- HANOWSKI, J. M., J. G. BLAKE, and J. GERALD. 1993. Effects of extremely low frequency electromagnetic fields on breeding and migrating birds. *The American Midland Naturalist* 129: 96-115.
- HARRINGTON, B.A. 1999. The Hemispheric Globetrotting of the White-rumped Sandpiper. Pages 119-134 in A Gathering of Angels: Ecology and Conservation of Migrating Birds. (K. P. Able, editor). Cornell University Press.
- HARRINGTON, B.A., F.J. LEEUWENBERG, and S.L. RESENDE. 1991. Migration and mass change of White-rumped Sandpipers in North and South America. *Wilson Bull.* 103: 621-636.
- HANSSON, M. and J. PETERSON. 1989. Competition and fat deposition in Goldcrests, *Regulus regulus*, at a migration stopover site. *Vogelwarte* 35: 21-31.
- HAYES, F. E. and J. A. FOX. 1991. Seasonality, habitat use, and flock sizes of shorebirds at the Bahia de Asuncion, Paraguay. *Wilson Bulletin* 103: 637-649.
- HEBRARD, J.J. 1971. The nightly initiation of passerine migration in spring: a direct visual study. *Ibis* 113: 8-18.
- HECHT, J. 1990. America's migrating birds decline as tropical forests shrink. *New Scientist* 125: 29.
- HEDENSTROM, A. and T. ALERSTAM. 1992. Climbing performance of migrating birds as a basis for estimating limits for fuel-carrying capacity and muscle work. *The Journal of Experimental Biology* 164: 19-38.
- HEDENSTROM A., and J. PETTERSSON. 1986. Differences in fat deposits and wing pointedness between male and female Willow Warblers caught on spring migration at Ottenby, SE Sweden. *Ornis Scand* 17: 182-185.
- HEINTZELMAN, D.S. 1975. Autumn flights; migration in eastern North America. Rutgers University Press, New Brunswick pp. 398.
- HEISE, C.D. and F.R. MOORE. 2003. Age-related differences in foraging efficiency, molt, and fat deposition of Gray Catbirds prior to autumn migration. *Condor* 105: 496-504.
- HELBIG, A. J. 1991. Inheritance of migratory direction in a bird species: a cross-breeding experiment with SE- and SW-migrating Blackcaps (*Sylvia atricapilla*). *Behav. Ecol. Sociobiol.* 28: 9-12.

- HELLE, P. and R. J. FULLER. 1988. Migrant passerine birds in European forest successions in relation to vegetation height and geographical position. *The Journal of Animal Ecology* 57: 565-579.
- HELM, C.W. and W.H. DRURY. 1960. Winter and migratory weight and fat: Field studies on some North American buntings. *Bird Banding* 31: 1-40.
- HESTBECK, J. B., J. D. NICHOLS, and J. E. HINES. 1992. The relationship between annual survival rate and migration distance in mallards: an examination of the time-allocation hypothesis for the evolution of migration. *Canadian Journal of Zoology* 70: 2021-2021.
- HICKLIN, P. W. 1987. the migration of shorebirds in the Bay of Fundy. *Wilson Bull.* 99: 540-570.
- HOLMES, R. T. and T. W. SHERRY. 1992. Site fidelity of migratory warblers in temperate breeding and Neotropical wintering areas. Implications for population dynamics habitat selection, and conservation. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium, Woods Hole, Massachusetts, December 6-9, 1989.* 563-575.
- HOLMES, R.T. 1986. Foraging patterns of forest birds: male-female differences. *Wilson Bull.* 98: 196-213.
- HOLMES, R.T., and S.K. Robinson. 1981. Tree species preferences of foraging insectivorous birds in a northern hardwoods forest. *Oecologia* 48: 31-35.
- HOLMES, R.T., J.C. SCHULTZ, and P. NOTHNAGLE,. 1979. Bird predation on forest insects: an exclosure experiment. *Science* 206: 462-463.
- HOOVER, J.P. 2003. Decision rules for site fidelity in a migratory bird, the Prothonotary Warbler. *Ecology (Washington D C)* 84(2): 416-430
- HOOVER, J. P. and M. C. BRITTINGHAM. 1993. Regional variation in Cowbird parasitism of Wood Thrushes. *Wilson Bulletin* 105: 228-238.
- HUNTER, M. L.;JR. 1992. Paleoecology landscape ecology and conservation of Neotropical migrant passernines in Boreal forests. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium, Woods Hole, Massachusetts, December 6-9, 1989.* 511-523.
- HUTTO, R. L. 1985. Seasonal changes in the habitat distribution of transient insectivorous birds in southeastern Arizona: competition mediated? *The Auk* 102: 120-132.
- HUTTO, R.L. 1985a. Habitat selection by nonbreeding, migratory landbirds. Pages 455-476 *In* Habitat Selection in Birds, M.L. Cody, ed. New York: Academic Press, Inc.

- HUTTO, R.L. 1981. Temporal patterns of foraging activity in some Wood Warblers in relation to the activity at insect prey. *Behav. Ecol. Sociobiol.* 9: 195-198.
- IVERSON, G.C., S.A. WARNOCK, R.W. BUTLER, M.A. BISHOP, and N. WARNOCK. 1996. Spring migration of Western Sandpipers along the Pacific coast of North America: a telemetry study. *Condor* 98: 10-21.
- JAMES, F. C., R. T. ENGSTROM, and C. NESMITH. 1984. Inferences about population movements of Red-winged Blackbirds from morphological data. *The American Midland Naturalist* 111: 319-331.
- JENNI, L. AND M. KERY. 2003. Timing of autumn bird migration under climate change: Advances in long-distance migrants, delays in short-distance migrants. *Proceedings of the Royal Society Biological Sciences Series B* 270, no. 1523 (22 July, 2003): 1467-1471
- JOHNSTON, D.W. 1966. A review of the vernal fat deposition picture in overland migrant birds. *Bird Banding* 37: 172-183.
- JONZEN, N. A. HEDENSTROM, C. HJORT, A. LINDSTROM, P. LUNDBERG, AND A. ANDERSSON. 2002. Climate patterns and the stochastic dynamics of migratory birds *Oikos* 97, no. 3 (June, 2002): 329-336.
- JOYCE, C. 1986. Food for flight in Delaware Bay. *New Scientist* 112: 34-36.
- KARLSSON, L.K., K. PEARSSON, J. PETTERSSON, and G. WALINDER. 1988. Fat-weight relationships and migratory strategies in the Robin, *Erythacus rubecula*, at two stop-over sites in south Sweden. *Ringing & Migration* 9: 160-168.
- KAUFMAN, K. 1990. The changing seasons (spring 1990 continental analysis). *American Birds* 44: 384-387.
- KEAST, A. and E.S. MORTON, eds. 1980. *Migrant Birds in the Neotropics: Ecology, behavior, distribution, and conservation*. Smithsonian Institutions Press. Washington, D.C. pp. 576.
- KELLY, J.F., SMITH, R.J., FINCH, D.M., MOORE, F.R. and YONG, W. 1999. Influence of summer biogeography on wood warbler stopover abundance. *Condor* 101:76-85.
- KERLINGER, P. 1995. *How Birds Migrate*. Stackpole Books, Mechanicsburg, PA.
- KERLINGER, P. and F.R. MOORE. 1989. Atmospheric structure and avian migration. In *Current Ornithology* (D.M. Power, Ed.). Plenum, New York, New York.

- KERLINGER, P., V. P. BINGMAN, and K. P. ABLE. 1985. Comparative flight behavior of migrating hawks studied with tracking radar during autumn in central New York. Canadian Journal of Zoology 63: 755-761.
- KERLINGER, P. 1985. Seasonal timing, geographic distribution, and flight behavior of Broad-winged Hawks during spring migration in south Texas: a radar and visual study. The Auk 102: 735-743.
- KERLINGER, P. 1984. Flight behavior of Sharp-shinned Hawks during migration: over land. Animal Behavior 32: 1021-1028.
- KERLINGER, P. 1984. Flight behavior of Sharp-shinned Hawks during migration: over water. Animal Behavior 32: 1029-1034.
- KETTERSON, E.D., and V. NOLAN. 1985. Intraspecific variation in avian migration: evolutionary and regulatory aspects, p. 553-579. *In* M.A. Rankin (ed.) Migration: mechanisms and adaptive significance, vol. 27. Contributions in Marine Science. University of Texas, Marine Science Institute, Port Aransas, TX.
- KETTERSON, E.D., and V. NOLAN, Jr. 1983. The evolution of differential bird migration. Current Ornithol. 1: 357-402.
- KETTERSON, E.D., and V. NOLAN, Jr. 1982. The role of migration and winter mortality in the life history of a temperate-zone migrant, the Dark-eyed Junco, as determined from demographic analyses of winter populations. Auk 99: 243-259.
- KING, J.R., and M.E. MURPHY. 1985. Periods of nutritional stress in the annual cycles of endotherm: fact or fiction? Am. Zool. 25: 955-964.
- KING, J.R. and D. S. FARNER. 1965. Studies of fat deposition in migratory birds. Ann. N.Y. Acad. Sci. 131: 422-440.
- KLAASSEN, M. 2004. May dehydration risk govern long-distance migratory behavior? Journal of Avian Biology 35(1): 4-6
- KLOECKER, P. D., J. M. WILLIAMS, and T. C. WILLIAMS. 1982. Radar and visual observations of transpacific migrants. Journal of the Hawaii Audubon Society 42(8): 77-80.
- KODRIC-BROWN, A., and J.H. BROWN. 1978. Influence of economics, interspecific competition, and sexual dimorphism on territoriality of migrant Rufous Hummingbirds. Ecology 59:285-296.

- KRAPU, G.L. 1999. Sandhill Cranes and the Platte River. Pages 103-118 in A Gathering of Angels: Ecology and Conservation of Migrating Birds. (K. P. Able, editor). Cornell University Press.
- KUENZI, A. J., F. R. MOORE, and T. R. SIMONS. 1991. Stopover of Neotropical landbird migrants on East Ship Island following trans-gulf migration. *The Condor* 93: 869-883.
- LANK, D.B , R. YDENBERG. 2003. Death and danger at migratory stopovers: problems with "predation risk" *Journal of Avian Biology* 34 (3): 225-228.
- LANK, D.B., R.W. BUTLER, J. IRELAND, and R. YDENBERG. 2003. Effects of predation danger on migration strategies of sandpipers. *Oikos* 103, no. 2 (November 2003): 303-319
- LAURSEN, K. 1978. Interspecific relationships between some insectivorous passerine species, illustrated by their diet during spring migration. *Ornis Scand* 9: 178-192.
- LAURSEN, K. 1976. Feeding ecology of the Goldcrest (*Regulus regulus*) during spring migration in Denmark. *Die Vogelwarte* 28: 180-190.
- LAVEE, D., and S. SAFRIEL. 1989. The dilemma of cross-desert migrants-stopover or skip a small oasis? *J. Arid Environ.* 17: 69-81.
- LAVEE, D., S. SAFRIEL, and I. MEILIJUSON. 1991. For how long do trans-Saharan migrants stop over at an oasis? *Ornis Scandinavia* 22: 33-44.
- LEE, D. S. 1986. Transient spring warblers in the Maryland Piedmont: the explosive nature of migration. *American Birds* 40: 542-545.
- LEVEY, D. J. and F.G. STILES. 1992. Evolutionary precursors of long-distance migration: resource availability and movement patterns in Neotropical landbirds. *The American Naturalist* 140: 447-476.
- LIMA, S.L. and L.M. DILL. 1990. Behavioral decisions made under the risk of predation: a review and prospectus. *Can. J. Zool.* 68: 619-640.
- LIMA, S.L. 1986. Predation risk and unpredictable feeding conditions: determinants of body mass in birds. *Ecology* 67: 377-385.
- LIMA, S.L. 1985. Maximizing feeding efficiency and minimizing time exposed to predators: A tradeoff in the Black-capped Chickadee. *Oecologia* 66: 60-67.

- LINCOLN, F. C., S.R. PETERSON, and J.L. ZIMMERMAN. 1998. Migration of birds. U.S. Department of the Interior, U.S. Fish and Wildlife Service, Washington, D.C. Circular 16. 113pp.
- LINDSTROM, A. In Press. Maximum fat deposition rates in migrating birds. *Ornis Scand.*
- LINDSTROM, A. and T. PIERSMA. 1993. Mass changes in migrating birds: the evidence for fat and protein storage re-examined. *IBIS* 135: 70-78.
- LINDSTROM, A. and T. ALERSTAM. 1992. Optimal fat loads in migrating birds: a test of the time-minimization hypothesis. *The American Naturalist* 140: 477-491.
- LINDSTROM, A. 1990. The role of predation risk in stopover habitat selection in migrating Bramblings, *Fringilla montifringilla*. *Behav. Ecol.* 1: 102-106.
- LINDSTROM, A. 1989. Finch flock size and risk of hawk predation at a migratory stopover site. *Auk* 106: 225-232.
- LINDSTROM, A. and T. ALERSTAM. 1986. The adaptive significance of reoriented migration of Chaffinches (*Fringilla coelebs*) and Bramblings (*F. montifringilla*) during autumn in southern Sweden. *Behavioral Ecology and Sociobiology* 19: 417-424.
- LITWIN, T. S. and C. R. SMITH. 1992. Factors influencing the decline of Neotropical migrants in a northeastern forest fragment isolation fragmentation or mosaic effects. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium*, Woods Hole, Massachusetts, December 6-9, 1989. 483-496.
- LOPEZ-ORNAT, A. and R. GREENBERG. 1990. Sexual segregation by habitat in migratory warblers in Quintana Roo, Mexico. *Auk* 107: 539-543.
- LORIA, D.E. and F.R. MOORE. 1990. Energy demands of migration on Red-eyed Vireos, *Vireo olivaceus*. *Behavioral Ecology* 1 (1): 24-35.
- LUNDGREN, B. 1988. Catabolic enzyme activities in the pectoralis muscle of migratory and nonmigratory Goldcrests, Great Tits and Yellowhammers. *Ornis Scand.* 19: 190-194.
- LUNDGREN, B., and K.H. KIESSLING. 1985. Seasonal variation in catabolic enzyme activities in breast muscle of some migratory birds. *Oecologia* 66: 468-471.
- LYNCH, J. F. 1989. Distribution of over-wintering Nearctic migrants in the Yucatan Peninsula: general patterns of occurrence (with appendixes). *The Condor* 91: 515-544.

- MABEY, S. E. and MORTON, E. S. 1992. Demography and territorial behavior of wintering Kentucky Warblers in Panama. Ecology and Conservation of neotropical Migrant landbirds; Symposium, Woods Hole, Massachusetts, December 6-9, 1989, 329-336.
- MARRA, P., C. FRANCIS, R. MULVIHILL, and F. MOORE. In press. The influence of climate on the timing and rate of spring bird migration. *Oecologia*.
- MARSH, R. L. 1983. Adaptations of the Gray Catbird, *Dumetella carolinensis*, to long distance migration: Energy stores and substrate concentrations in plasma. *Auk* 100: 170-179.
- MARSH, R. L. 1984. Adaptations of the Gray Catbird, *Dumetella carolinensis* to long-distance migration: flight muscle hypertrophy associated with elevated body mass. *Physiological Zoology* 57: 105-117.
- MARTIN, T. and D. FINCH, eds. 1995. *Ecology and Management of Neotropical Migratory Birds. A synthesis and review of critical issues.* Oxford University Press, NY. 489 pp.
- MARTIN, T. E. 1992. Breeding productivity considerations. What are the appropriate habitat features for management. Ecology and conservation of Neotropical Migrant Landbirds; Symposium, Woods Hole, Massachusetts, December 6-9, 1989. 455-473.
- MARTIN, T.E. and J.R. KARR. 1990. Behavioral plasticity of foraging maneuvers of migratory warblers: multiple selection periods for niches? Pages 353-359 *In Avian Foraging: Theory, Methodology, and Applications*, M.L. Morrison, D.J. Ralph, J. Berner, and J.R. Jehl, Jr., eds. *Studies in Avian Biology* 13.
- MARTIN, T.E. and J.R. KARR. 1986. Patch utilization by migrating birds: Resource oriented? *Ornis Scand.* 17: 165-174.
- MARTIN, T. E. and J. R. KARR. 1986. Temporal dynamics of Neotropical birds with special reference to frugivores in second-growth woods. *Wilson Bulletin* 98: 38-60.
- MARTIN, T.E. 1985. Selection of second-growth woodlands by frugivorous migrating birds in Panama: an effect of fruit size and plant density. *J. Tropical Ecol.* 1: 157-170.
- MARTIN, T.E. 1980. Diversity and abundance of spring migratory birds using habitat islands on the Great Plains. *Condor* 82: 430-439.
- MAUER, B. A. 1992. Geographic range fragmentation and extinction likelihood in Neotropical migratory birds. *Bulletin of the Ecological Society of America* 73: 264.
- MAUER, B. A. and M. A. VILLARD. 1993. Properties of geographic ranges of Neotropical migrant birds and the likelihood of extinction. *Bulletin of the Ecological Society of America*. 74: 348-349.

- McCLINTOCK, C.P., T.C. WILLIAMS, and J.M. TEAL. 1978. Autumnal bird migration observed from ships in the western North Atlantic Ocean. *Bird Banding* 49: 262-277.
- McWILLIAMS, S.R. 2004. Flying, fasting, and feeding in birds during migration: a nutritional and physiological ecology perspective. *Journal of Avian Biology* 35, no. 5 (September 2004): 377-393
- MEAD, C. 1984. Bird migration. *The Quarterly Review of Biology* 59: 485.
- Migration of Sharp-shinned Hawks in the Dry Tortugas, Florida. 1991. *Wilson Bulletin* 103: 491-493.
- MEHLUM, F. 1983a. Weight changes in migrating Robins (*Erithacus rubecula*) during stop-over at the island of Store Faerder, Outer Oslofjord, Norway. *Fauna Norv. Ser. D., Cinclus* 6: 57-61.
- MEHLUM, F. 1983b. Resting time in migrating Robins (*Erithacus rubecula*) at Store Faerder, Outer Oslofjord, Norway. *Fauna Norv. Ser. C, Conclus* 6: 62-72.
- METCALFE, N.B. and R.W. FURNESS. 1984. Changing priorities: The effect of pre-migratory fattening on the trade-off between foraging and vigilance. *Behavioral Ecology and Sociobiology*. 15 (3): 203-206.
- MILLS, E. D. and D. T. ROGERS, JR. 1990. Nearctic passerine fall migration in central Belize. *Wilson Bulletin* 102: 146-150.
- MIZRAHI, D.S., R.L. HOLBERTON, and S.A. GAUTHREAUX, Jr. 2001. Patterns of corticosterone secretion in Semipalmated Sandpipers at a major spring stopover site. *Auk* 118:81-93.
- MOERMOND, T.C. 1990. A functional approach to foraging: Morphology, behavior, and the capacity to exploit. *Studies in Avian Biology* 13: 427-430.
- MONKKONEN, M., P. HELLE, and D. WELSH. 1992. Perspectives on Palearctic and Nearctic bird migration; comparisons and overview of life-history and ecology of migrant passerines. *IBIS* 134: 7-13.
- MOORE, F. R., M.S. WOODREY, J.J. BULER, S. WOLTMANN, T.R. SIMONS. In press. Understanding the stopover of migratory birds: A scale dependent approach. *Bird Conservation Implementation and Integration in the Americas: Proceedings of the Third International Partners in Flight Conference 2002* (C.J. Ralph and T.D. Rich, eds.). U.S.D.A. Forest Service, GTR-PSW-xxx, Albany, CA.

- MOORE, F. R., S. MABEY, and M. WOODREY. 2003. Priority access to food in migratory birds: age, sex and motivational asymmetries. Pp. 281-292. In: P. Berthold, E. Gwinner & E. Sonnenschein (eds): Avian Migration. Springer, Berlin Heidelberg New York.
- MOORE, F. R., and D. ABORN. 2000. Mechanisms of en route habitat selection: How do migrants make habitat decisions during stopover? *Studies in Avian Biology* 20:34-42.
- MOORE, F. R. [editor]. 2000. Stopover Ecology of Nearctic-Neotropical Landbird Migrants: Habitat Relations and Conservation Implications. *Studies in Avian Biology* No. 20. 133 Pp.
- MOORE, F. R. 1999. Cheniers of Louisiana and the stopover ecology of migrant landbirds. Pages 51-62 in A Gathering of Angels: Ecology and Conservation of Migrating Birds. (K. P. Able, editor). Cornell University Press.
- MOORE, F.R. and D.A. ABORN. 1996. Time of departure by Summer Tanagers (*Piranga rubra*) from a stopover site following spring trans-Gulf migration. *Auk* 113: 949-952.
- MOORE, F. R., S. A. GAUTHREAUX, Jr., P. KERLINGER, and T.R. SIMONS. 1995. Habitat Requirements during Migration: Important Link in the Conservation of Neotropical Landbird Migrants. Pp. 121-144. In: Ecology and Management of Neotropical Migratory Birds. T. Martin and D. Finch (Eds). Oxford University Press. New York, NY.
- MOORE, F. R and R. SANDBERG. 1994. Consequences of experience for migrating birds. *J. fur Ornithologie* 135: 395.
- MOORE, F. R 1994. Resumption of feeding under risk of predation: Effect of migratory condition. *Animal Behaviour* 48: 975-977
- MOORE, F. R. and M. S. WOODREY. 1993. Stopover Habitat and its Importance in the Conservation of Landbird Migrants. *Proc. Annu. Conf. Southeast. Assoc. Fish and Wildl. Agencies* 47: 447-459.
- MOORE, F. R., S.A. GAUTHREAUX, Jr., P. KERLINGER, and T.R. SIMONS. 1993. Stopover Habitat: Management implications and guidelines. Pp. 58-69. In: Status and Management of Neotropical Migratory Birds. D. Finch and P. Stangel (Eds). Rocky Mountain Forest and Range Experiment Station. Ft. Collins, Co. General Technical Report. No. RM-229.
- MOORE, F. R. and M. V. MCDONALD. 1993. On the possibility that intercontinental landbird migrants copulate en route. *The Auk* 110: 157-160.
- MOORE, F. R. and T. R. SIMONS. 1992. Habitat suitability and stopover ecology of Neotropical landbird migrants. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium, Woods Hole, Massachusetts, December 6-9, 1989* 345-355.

- MOORE, F.R. 1991. Ecophysiological and behavioral response to energy and demand during migration. *Acta XX Congressus Internationalis Ornithologici*. pp. 753-760.
- MOORE, F. and W. YONG. 1991. Evidence of food-based competition among passerine migrants during stopover. *Behavioral Ecology and Sociobiology* 28:2, pp. 85-90.
- MOORE, F. and W. YONG. 1991. Intercontinental bird migrants compete for food resources during stopover. *Behav. Ecol. Sociobiol.* 28: 85-90.
- MOORE, F. R. 1990. Evidence for re-determination of migratory direction following wind displacement. *The Auk* 107: 425-428.
- MOORE, F.R., and P. KERLINGER. 1991. Nocturnality, long-distance migration, and ecological barriers. *Acta XX Intern. Ornithol. Congress*. p. 1122-1129.
- MOORE, F. R., P. KERLINGER, and T. R. SIMONS. 1990. Stopover on a Gulf Coast barrier island by spring trans-gulf migrants. *Wilson Bulletin* 102: 487-500.
- MOORE, F.R. and P. KERLINGER. 1987. Stopover and fat deposition by North American Wood Warblers (*Parulinae*) following spring migration over the Gulf of Mexico. *Oecologia* 74: 47-54.
- MOORE, F. R. 1987. Sunset and the orientation behavior of migrating birds (review). *Biological Reviews of the Cambridge Philosophical Society* 62: 65-86.
- MOORE, F.R., and P.A. SIMM. 1986. Risk-sensitive foraging by a migratory warbler. (*Dendroica coronata*). *Experientia* 42: 1054-1056.
- MOORE, F. R. 1985. Integration of environmental stimuli in the migratory orientation of the Savannah Sparrow (*Passerculus sandwichensis*). *Animal Behavior* 33: 657-663.
- MOORE, F. R. and P. A. SIMM. 1985. Migratory disposition and choice of diet by the Yellow-rumped Warbler (*Dendroica coronata*). *The Auk* 102: 820-826.
- MOORE, F. R. 1985. Individual variability in the migratory orientation of the Savannah Sparrow, *Passerculus sandwichensis*. *Zietschrift fur Tierpsychologie* 67:144-153.
- MOORE, F. R. 1984. Age-dependent variability in the migratory orientation of the Savannah Sparrow (*Passerculus sandwichensis*). *The Auk* 101: 875-880.
- MOORE, F. R. 1982. Sunset and the orientation of a nocturnal bird migrant: Test of an hypothesis. *Behavioral Ecology and Sociobiology* 10:153-155.

- MOORE, F. R. 1980. Solar cues in the migratory orientation of the Savannah Sparrow, *Passerculus sandwichensis*. Animal Behaviour 28:684-704.
- MOORE, F. R. 1978. Sunset and the orientation of a nocturnal migrant bird. Nature, 274:154-156.
- MOORE, F. R. 1977. Geomagnetic disturbance and the orientation of nocturnally migrating birds. Science 196:684-686.
- MOORE, F. R. 1975. Influence of solar and geomagnetic stimuli on the migratory orientation of Herring Gull chicks. Auk 92:655-664.
- MOREAU, R.E. 1972. The Palearctic-African bird migration systems. Academic Press, London, New York.
- MORRIS, R. S., M. E. RICHMOND, and D. W. HOLMES. 1994. Patterns of stopover during spring and fall migration on Appledore Island, Maine. Wilson Bulletin 106(4): 703-718.
- MORSE, D. H. 1991. Song types of Black-throated Green Warblers on migration. Wilson Bulletin 103: 93-96.
- MORSE, D.H. 1971. The insectivorous bird as a adaptive strategy. Ann. Rev. Ecol. Syst. 2: 177-200.
- MORTON, E. S. 1992. What do we know about the future of migrant landbirds? Ecology and Conservation of Neotropical Migrant Landbirds; Symposium, Woods Hole, Massachusetts, December 6-9, 1989: 579-589.
- MORTON, E. S. and R. GREENBERG. 1989. The outlook for migratory songbirds: "Future Shock" for birders. American Birds 43: 178-183.
- MORTON, E.S. 1977. Intratropical migration in the Yellow-green Vireo and Piratic Flycatcher. Auk 94: 97-106.
- MUELLER, H.C. and D.D. BERGER. 1967. Wind drift, leading lines, and diurnal migration. Wilson Bulletin 79:50-63.
- MUHEIM, R., S. AKESSON, AND T. ALERSTAM. 2003. Compass orientation and possible migration routes of passerine birds at high arctic latitudes. Oikos 103(2): 341-349.
- MURPHY, M. T. 2001. Habitat-specific demography of a long-distance, Neotropical migrant bird, the Eastern Kingbird Ecology 82(5): 1304-1318.

- MURRAY, B.G. 1966. Migration of age and sex classes of passerines on the Atlantic coast in Autumn. *Auk* 83: 352-360.
- MURRAY, B.G.,JR. 1989. A critical review of the transoceanic migration of the Blackpoll Warbler. *The Auk* 106: 8-17.
- MYERS, J. P. 1983. Conservation of migrating shorebirds: staging areas, geographic bottlenecks, and regional movements. *American Birds* 37: 23-25.
- MYERS, J. P., R. I. G. MORRISON, and P. Z. ANTAS. 1987. Conservation strategy for migratory species. *American Scientist* 75: 18-26.
- MYERS, J. P., A. SALLABERRY, and E. ORTIZ. 1990. Migration routes of New World Sanderlings (*Calidris alba*) (with appendixes). *The Auk* 107: 172-180.
- NAKAZAWA, Y. 2004. Seasonal niches of Nearctic-Neotropical migratory birds: Implications for the evolution of migration. *Auk* 121 (2): 610-618
- NARANJO, L. G., J. CORREA-SANDOVAL, and J. GARCIA-BARRON. 1992. Some suggestions for future cooperative work in Latin America: An outline. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium, Woods Hole, Massachusetts, December 6-9, 1989.* 590-593.
- NICHOLS, T.H., L.M. EGELAND, and M.J. ROBERTSON. 1992. *In Habitat Requirements of Neotropical Migrant Birds During Migration.* National Training workshop on Status and Management of Neotropical Migrant Birds, Estes Park, Colorado.
- NISBET, I.C.T. 1970. Autumn migration of the Blackpoll Warbler: evidence for long flight provided by regional survey. *Bird Banding* 41: 207-240.
- NISBET, I.C.T., D.B. McNAIR, W. POST, and T.C. WILLIAMS. 1995. Transoceanic migration of the Blackpoll Warbler: summary of scientific evidence and response to criticism by Murray. *J. Field Ornithol.* 66: 612-622.
- NISBET, I.C.T. and W.H. DRURY. 1968. Short-term effects of weather on bird migration: a field study using multivariate statistics. *Anim. Behav.* 16:496-530.
- NISBET, I.C.T., W.H. DRURY, and J. BAIRD. 1963. Weight loss during migration. Part I: Deposition and consumption of fat by the Blackpoll Warbler, *Dendroica striata*. *Bird Banding* 34: 107-138.
- NOLAN, V., Jr. and E.D. KETTERSON. 1990. Effect of long days on molt and autumn migratory state of site-faithful Dark-eyed Juncos held at their winter sites. *Wilson Bulletin* 102: 469-479.

- NOLAN, V., Jr. and E.D. KETTERSON. 1990. Timing of autumn migration and its relation to winter distribution in Dark-eyed Juncos. *Ecology* 71: 1267-1278.
- NORBERG, R.A. 1977. An ecological theory of foraging time and energetics and choice of optimal food-searching method. *Journal of Animal Ecology* 46: 511-529.
- NORRIS, D.R., P.P. MARRA, K.T. KURT, T.W. SHERRY, AND L.M. RATCLIFFE. 2004. Tropical winter habitat limits reproductive success on the temperate breeding grounds in a migratory bird. *Proceedings of the Royal Society Biological Sciences Series B* 271, no. 1534 (7 January 2004): 59-64
- O'CONNOR, R.J. 1992. Population variation in relation to migrancy status in some North American birds. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium*, Woods Hole, Massachusetts, December 6-9, 1989. 64-74.
- O'CONNOR, R.J. 1990. Some ecological aspects of migrants and residents. In *Bird Migration: Physiology and Ecophysiology* (E. Ginner, ed.) Springer-Verlag, Berlin, Germany
- ORIANS, G.H. 1981. Foraging behavior and the evolution of discriminatory abilities. In *Foraging behavior*, Kamil, A.C., Sargent, T.D. eds. New York: Garland STPM Press: 389-405.
- PARNELL, H.F. 1969. Habitat relations of the Parulidae during spring migration. *Auk* 86: 505-521.
- PASHLEY, D. N. and R. P. MARTIN. 1988. The contribution of Christmas bird counts to knowledge of the winter distribution of migratory warblers in the Neotropics. *American Birds* 42: 1164-1176.
- PAXTON, B. J. and B. D. WATTS. 2001. Fall stop-over ecology of Neotropical migrants: Are inner or outer coastal habitats energy sources for migrants. Center for Conservation Biology Technical Report CCBTR-01-10, College of William and Mary: 46 pp.
- PENNYCUICK, C.J. 1969. The mechanics of bird migration. *Ibis* 111: 525-556.
- PEREZ-TRIS, J. 2004. Historical diversification of migration patterns in a passerine bird *Evolution* 58, no. 8 (August 2004): 1819-1832
- PETTERSSON, J. and D. HASSELQUIST. 1985. Fat deposition and migration capacity of Robins, *Erithacus rubecula*, and Goldcrest, *Regulus regulus* at Ottenby, Sweden. *Ringing and Migration* 6: 66-75.
- PIENKOWSKI, M.W., and P.R. EVANS. 1985. The role of migration in the population dynamics

of birds. In Sibly R.M., Smith, R.H. (eds) Behavioral Ecology. Blackwell, Oxford, pp. 331-352.

PIERSMA, T. 1990. Pre-migratory "fattening" usually involves more than the deposition of fat alone. *Ringing & Migration* 11: 113-115.

PIERSMA, T., and J. JUKEMA. 1990. Budgeting the flight of a long-distance migrant: changes in nutrient levels of Bar-tailed Godwits at successive spring staging sites. *Ardea* 78: 315-338.

POWER, D.M. 1971. Warbler ecology: diversity, similarity, and seasonal difference in habitat segregation. *Ecology* 52. 434-443.

PRINZ, K. and W. WILTSCHKO. 1992. Migratory orientation of Pied Flycatchers: interaction of stellar and magnetic information during ontogeny. *Animal Behavior* 44: 539-545.

PYLE, P., N. NUR, and R. P. HENDERSON. 1993. The effects of weather and lunar cycle on nocturnal migration of landbirds at Southeast Farallon Island, California. *The Condor* 95: 343-361.

QUAY, W. B. 1989. Insemination of Tennessee Warblers during spring migration. *The Condor* 91: 660-670.

RABOL, J. and F.D. PETTERSEN. 1973. Lengths of resting time in various night-migrating passerines at Hesselo, southern Kattegat, Denmark. *Ornis Scand.* 4: 33-46.

RALPH, C.J. 1978. Disorientation and possible fate of young passerine coastal migrants. *Bird Banding* 49: 237-247.

RALPH, C.J. 1981. Age ratios and their possible use in determining autumn routes of passerine migrants. *Wilson Bulletin* 93: 164-188.

RAMOS, M.A. 1988. Eco-evolutionary aspects of bird movements in the northern Neotropical region. *Acta 19th Internat. Ornithol. Cong.* (Ottawa): 251-293.

RAPPOLE, J.H. and P. JONES. 2003. Evolution of old and new world migration systems. *Ardea* 90, 525-537.

RAPPOLE, J.H. and K.L. SCHUCHMANN. 2003. The ecology and evolution of hummingbird population movements: A review. Pages 39-51 in *Avian Migration* (P. Berthold, E. Gwinner and E. Sonnenschein, eds), Heidelberg, Germany, Spring.

RAPPOLE, J.H., B. HELM, and M. RAMOS. 2003. An integrative framework for understanding the origin and evolution of avian migration. *Journal of Avian Biology* 34, 124-128.

- RAPPOLE, J.H., D.I. KING, and J. DIEZ. 2003. Use of remote sensing to assess winter versus breeding habitat limitation for an endangered avian migrant. *Ecological Applications* 13.
- RAPPOLE, J.H. 1995. Ecology of migrant birds: a Neotropical *perspective*. Smithsonian Institution Press, Washington, D.C.
- RAPPOLE, J.H. and M.V. McDONALD. 1994. Cause and effect in population declines of migratory song birds. *The Auk* 111 (3): 652-660.
- RAPPOLE, J. H., E. S. MORTON, and M. A. RAMOS. 1992. Density philopatry and population estimates for songbird migrants wintering in Veracruz. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium, Woods Hole, Massachusetts, December 6-9, 1989* 337-344.
- RAPPOLE, J.H., and D.W. WARNER. 1976. Relationships between behavior, physiology and weather in avian transients at a migration stopover site. *Oecologia* 26: 193-212.
- REAL, L., and T. Caraco. 1986. Risk and foraging in stochastic environments. *Ann. Rev. Ecol. Syst.* 17: 371-390.
- REED, J. M. 1992. A system for ranking conservation priorities for Neotropical migrant birds based on relative susceptibility to extinction. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium, Woods Hole, Massachusetts, December 6-9, 1989*. 524-536.
- RICHARDSON, J.W. 1972. Autumn migration and weather in eastern Canada: a radar study. *American Birds* 26: 10-17.
- RICHARDSON, J.W. 1978. Reorientation of nocturnal landbird migrants over the Atlantic Ocean near Nova Scotia in autumn. *Auk* 95(4): 703-716.
- RICKLERS, R. E. 1992. The megapopulation model of demographic coupling between migrant and resident landbird populations. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium, Woods Hole, Massachusetts, December 6-9, 1989*. 537-548.
- RIDDIFORD, N. and R.C. AUGER. 1983. Weight gains and resumption of passage by Willow Warblers on spring migration. *Bird Study* 30: 229-232
- ROBBINS, C.S. 1992. Hemispheric perspectives: Introduction. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium, Woods Hole, Massachusetts, December 6-9, 1989*. 64-74.

- ROBBINS, C.S., J.R. SAUER, and R.S. GREENBERG. 1989. Population declines in North American birds that migrate to the Neotropics. *Proceedings of the National Academy of Sciences*, 86: 7658-7662.
- RODEWALD, P.G., M.B. BRITTINGHAM. 2002. Habitat use and behavior of mixed species landbird flocks during fall migration *Wilson Bulletin* 114 (1): 87-98.
- ROGERS, C. M., T. L. THEIMER, and V. NOLAN, JR. 1989. Does dominance determine how far Dark-eyed Juncos, *Junco hyemalis*, migrate into their winter range? *Animal Behavior* 37: 498-506.
- ROGERS, D.T. and E.P. ODUM. 1964. Effect of age, sex, and level of fat deposition on major body components in some wood warblers. *Auk* 81: 505-513.
- ROHWER, S. and M. S. JOHNSON. 1992. Scheduling differences of molt and migration for Baltimore and Bullock's Orioles persist in a common environment. *The Condor* 94: 992-994.
- RUNDLE, W. D. and M. W. SAYRE. 1983. Feeding ecology of migrant Soras in southeastern Missouri. *The Journal of Wildlife Management* 47: 1153-1159.
- RUSSEL, R. W., P. DUNNE, and C. SUTTON. 1991. A visual study of migrating owls at Cape May Point, New Jersey. *The Condor* 93: 55-61.
- SAFRIEL, U.N., and D. LAVEE. 1988. Weight changes of cross-desert migrants at an oasis-do energetic considerations along determine the length of stopover? *Oecologia* 76: 611-619.
- SANDBERG, R.J. , F.R. MOORE, J. Bäckman, and M. Löhmus. 2002. Orientation of nocturnally migrating Swainson's Thrush at dawn and dusk: Importance of energetic condition and geomagnetic cues. *The Auk* 119: 201-209.
- SANDBERG, R.J., and F.R. MOORE. 1996. Fat stores and arrival on the breeding grounds: reproductive consequences for passerine migrants. *Oikos* 77: 577-581.
- SANDBERG, R.J., and F.R. MOORE. 1996. Migratory orientation of Red-eyed Vireos, *Vireo olivaceus*, in relation to energetic condition and ecological context. *Behavioral Ecology & Sociobiology* 31:1-10.
- SANDBERG, R.J., PETTERSSON, and T ALERSTAM. 1988. Why do migrating Robins, *Erithacus rubecula*, captured at two nearby stopover sites orient differently? *Anim. Beh.* 36: 865-876.
- SCHMUTZ, J. K., R. W. FYFE, and U. BANASCH. 1991. Routes and timing of migration of falcons banded in Canada. *Wilson Bulletin* 103: 44-58.

- SCHWABL, H., J. C. WINGFIELD, and D. S. FARNER. 1984. Endocrine correlates of autumnal behavior in sedentary and migratory individuals of a partially migratory population of the European Blackbird (*Turdus merula*). The Auk 101: 499-507.
- SCHWABL, H. and D. S. FARNER. 1989. Endocrine and environmental control of vernal migration in male White-crowned Sparrows, *Zonotrichia leucophrys gabelii*. Physiological Zoology 62: 1-10.
- SEALY, S.G. 1989. Defense of nectar resources by migrating Cape May Warblers. J. Field Ornithol. 60: 89-93.
- SEALY, S. G. 1988. Aggressiveness in migrating Cape May Warblers: defense of an aquatic food source. The Condor 90: 271-274.
- SENNER, S.E. 1999. Converging North: Dunlins and Western Sandpipers on the Copper River Delta. Pages 135-148 in A Gathering of Angels: Ecology and Conservation of Migrating Birds. (K. P. Able, editor). Cornell University Press.
- SHERRY, T.W., M.D. JOHNSON, and A.M. STRONG. 2004. Does winter food limit populations of migratory birds? in Birds of Two Worlds: the Ecology and Evolution of Migratory Birds. (R. Greenberg and P.P. Marra, eds.). Johns Hopkins University Press, in press.
- SHERRY, T.W., & R.T. HOLMES. 1996. Winter habitat limitation in Neotropical-Nearctic migrant bird: implications for population dynamics & conservation. Ecology 77: 36-48
- SHERRY, T.W., and R.T. HOLMES. 1995. Summer versus winter limitation of populations: issues and the evidence. Pp. 85-120 In T.M. Martin, and D. Finch, eds. Ecology and management of Neotropical migratory birds. Oxford University Press.
- SHERRY, T. W. and R. T. HOLMES. 1993. Winter habitat limitation of Neotropical Nearctic migrant songbirds: Distributional demographic and experimental evidence. Bulletin of the Ecological Society of America 74: 435.
- SHERRY, T. W. and R. T. HOLMES. 1992. Population fluctuations in a long-distance Neotropical migrant. Demographic evident for the importance of breeding season events in the American Redstart. Ecology and Conservation of Neotropical Migrant Landbirds; Symposium, Woods Hole, Massachusetts, December 6-9, 1989. 431-442
- SIELMAN, M. S., L. A. SHERIFF, and T. C. WILLIAMS. 1981. Nocturnal migration at Hawk Mountain, Pennsylvania. American Birds 35(6): 906-909.
- SILLETT, T. S. and R.T. HOLMES. 2002. Variation in survivorship of a migratory songbird throughout its annual cycle. Journal of Animal Ecology 71, 296-308.

- SILLETT, T. S. , R.T. HOLMES, and T.W. SHERRY. 2000. The El Niño Southern Oscillation impacts population dynamics of a migratory songbird throughout its annual cycle. *Science* 288: 2040-2042.
- SIMONS, T.R., F. MOORE and S.A. GAUTHREAUX. 2004. Mist netting trans-gulf migrants at coastal stopover sites: the influence of spatial and temporal variability on capture data. *Studies in Avian Biology* No. 29:135-143.
- SIMONS, T.R., S. M. PEARSON, and F.R. MOORE. 2000. Applications of spatial models to the stopover ecology of trans-gulf migrants. *Studies in Avian Biology* 20: 4-14.
- SKAGEN, S.K. and F.L. KNOPF.1994. Migrating shorebirds and habitat dynamics at a prairie wetland complex. *Wilson Bull* 106: 91-104.
- SKAGEN, S.K. and F.L. KNOPF.1994. Residency patterns of migrating sandpipers at a mid-continent stopover. *Condor* 96: 949-958.
- SMITH, H.G. and J. A. NILSSON. 1987. Intraspecific variation in migratory pattern of a partial migrant, the Blue Tit (*Parus caeruleus*): an evaluation of different hypotheses. *Auk* 104:109-115.
- SMITH, H. G., D. L. GOLDSTEIN, and G. A. BARTHOLOMEW. 1986. Is long-distance migration possible for soaring hawks using only stored fat? *The Auk* 103: 607-611.
- SMITH, R. and F.R. MOORE. In press. Arrival timing and seasonal reproductive performance in a long-distance migratory landbird. *Behavioral Ecology and Sociobiology*.
- SMITH, R.J. and F.R. MOORE. 2003. Arrival fat and reproductive performance in a long-distance passerine migrant. *Oecologia*. 134:325-331.
- SNIEGOWSKI, P. D., E. D. KETTERSON, and V. NOLAN. 1988. Can experience alter the avian annual cycle? Results of migration experiments with Indigo Buntings. *Ethology* 79: 333-341.
- STAICER, C. A. 1992. Social behavior of the Northern Parula, Cape May Warbler, and Prairie Warbler wintering in second-growth forest in Southwestern Puerto Rico. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium, Woods Hole, Massachusetts, December 6-9, 1989* 308-320.
- STANGEL, P. W. and A. S. ENO. 1992. Conservation on a grand scale. *Transactions of the North American Wildlife and Natural Resources Conference*. pp. 648-656.

- STEWART, R.L.M., C.M. FRANCIS, AND C. MASSEY. 2002. Age-related differential timing of spring migration within sexes in passerines. *Wilson Bulletin* 114(2): 264-271.
- STODDARD, P.; J. MARSDEN, and T. WILLIAMS. 1983. Computer simulation of autumnal bird migration over the Western North Atlantic. *Animal Behavior*. 31:1 pp.173-180.
- STOTZ, D. F., R. O. BIERREGAARD, and M. COHN-HAFT. 1992. The status of North American migrants in Central Amazonian Brazil. *The Condor*. 94: 608-621.
- SUTHERLAND, G.D., C.L. GASS, P.A. THOMPSON, and K.P. LERTZMAN. 1982. Feeding territoriality in migrant Rufous hummingbirds: defense of Yellow-bellied Sapsucker (*Sphyrapicus varius*) feeding sites. *Can. J. Zool.* 60: 2046-2050.
- SUTHERLAND, W. J. 1988. The heritability of migration. *Nature* 334: 471-472.
- SUTHERLAND, W. J. 1992. Population biology: genes map the migratory route (European Blackcaps have changed their migration behavior). *Nature* 360: 625-626.
- TANKERSLEY, R. D. 2004. Migration of birds as an indicator of broad-scale environmental condition. *Environmental Monitoring and Assessment* 94 (1-3): 55-67.
- TANKERSLEY, R. D. and K ORVIS. 2003. Modeling the geography of migratory pathways and stopover habitats for neotropical migratory birds. *Conservation Ecology* 7 (1): Art. No. 7
- TAYLOR, D.M., D.F. DeSANTE, G.R. GEUPEL, and K. HOUGHTON. 1994. *Journal of Field Ornithology* 65(2): 169-185.
- TERRILL, S.B. 1990. Ecophysiological aspects of movements by migrants in the wintering quarters, p. 130-143. In E. Gwinner (ed.), *Bird Migration*. Springer-Verlag, Berlin.
- TERRILL, S. B. and R. L. CRAWFORD. 1988. Additional evidence of nocturnal migration by Yellow-rumped Warblers in winter. *The Condor* 90: 261-263.
- TERRILL, S. B. and K. P. ABLE. 1988. Bird migration terminology (commentary). *The Auk* 105: 205-206.
- TERRILL, S.B. 1988. The relative importance of ecological factors in bird migration. *Acta 19th Internat. Ornithol. Cong.* (Ottawa): 2180-2190.
- TERRILL, S.B. 1987. Social dominance and migratory restlessness in the Dark-eyed Junco (*Junco hyemalis*) *Behav. Ecol. Sociobiol.* 21: 1-11.

- TERRILL, S. B. and R. D. OHMART. 1984. Facultative extension of fall migration by Yellow-rumped Warblers (*Dendroica coronata*). *The Auk* 101: 427-438.
- THOMAS, B. T. 1987. Spring shorebird migration through central Venezuela. *Wilson Bulletin* 99: 571-578.
- TITUS, K. and M. R. FULLER. 1990. Recent trends in counts of migrant hawks from northeastern North America. *The Journal of Wildlife Management* 54: 463-470.
- TORRE-BUENO, J.R. 1978. Evaporative cooling and water balance during the flight of birds. *J. Exp. Biol.* 75: 231-236.
- VAHATALO, A.V. 2004. Spring arrival of birds depends on the North Atlantic Oscillation *Journal of Avian Biology* 35 (3): 210-216
- VIDAL-RODRIGUEZ, R. M. 1992. Abundance and seasonal distribution of Neotropical migrants during autumn in Mexican Cloud Forest. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium*, Woods Hole, Massachusetts, December 6-9, 1989. 370-376.
- VIEGA, J.P. 1986. Settlement and fat accumulation by migrant Pied Flycatchers in Spain. *Ringing and Migration* 7: 85-98.
- VILLARD, M. A. and B. A. MAURER. 1993. Analyzing the spatial and temporal variation in population trends of Neotropical migrant birds. *Bulletin of the Ecological Society of America*. 74: 173.
- VOGT, R. C., J. RAMIREZ, and B. J. L. VILLAREAL. 1993. Migrant Hooded Warblers as prey of Neotropical frogs. *Wilson Bulletin* 105: 533.
- VON HAARTMAN, L. 1968. The evolution of resident versus migratory habit in birds: some considerations. *Ornis Fennica* 45: 1-7.
- WARD, S.A. 1987. Optimal habitat selection in time-limited dispersers. *Am. Nat.* 129: 568-579.
- WARKENTIN, I. G., P. C. JAMES, and L. W. OLIPHANT. 1990. Body morphometrics, age structure, and partial migration of urban Merlins. *The Auk* 107: 25-34.
- WEIDENSAUL, S. 1999. *Living on the Wind: Across the Hemisphere with migratory birds*. North Point Press, New York, New York.
- WEISBROD, A. R., C. J. BURNETT, and J. G. TURNER. 1993. Migrating birds at a stopover site in the Saint Croix River Valley. *Wilson Bulletin* 105: 265-284.

- WHITE, R. P. 1988. Wintering grounds and migration patterns of the Upland Sandpiper. American Birds 42: 1247-1253.
- WIEDNER, D. S., P. KERLINGER, D. A. SIBLEY, P. HOLT, J. HOUGH, and R. CROSSLEY. 1992. Visible morning flight of Neotropical landbird migrants at Cape May New Jersey. Auk 109: 500-510.
- WILLIAMS, T. C. 1984. How to use marine radar for bird watching. American Birds 38(6): 982-983.
- WILLIAMS, T.C. 1991. Constant compass orientation for North American autumnal migrants. Journal of Field Ornithology 62(2): 218-225.
- WILLIAMS, T. C. and J. M. WILLIAMS. 1978. An oceanic mass migration of land birds. Scientific American 239: 166-176.
- WILLIAMS, T. C. and J. M. WILLIAMS. 1980. A Peterson's Guide to radar ornithology? American Birds 34(5): 741-738
- WILLIAMS, T. C. and J. M. WILLIAMS. 1981. Radar observations of bird migration near Provincetown, Massachusetts. Journal of Field Ornithology 52(3): 238.
- WILLIAMS, T. C. and M. YING. 1990. A comparison of radar observations of bird migration at Haizhou Bay, China, and Guam, Marianas. The Auk 107: 404-407.
- WILLIAMS, T. C., J. M. WILLIAMS, L. C. IRELAND, and J. M. TEAL. 1977. Autumnal bird migration over the western North Atlantic Ocean. American Birds 31(3): 251-267.
- WILLIAMS, T. C., J. M. WILLIAMS, L. C. IRELAND, and J. M. TEAL. 1978. Estimated flight time for transatlantic autumnal migrants. 1978. American Birds 32(3): 275-280.
- WILLIAMS, T. C., J. E. MARSDEN, T. L. LLOYD-EVANS, V. KRAUTHAMER, and H. KRAUTHAMER. 1981. Spring migration studied by mist-netting, ceilometer, and radar. Journal of Field Ornithology 52(3): 177-270.
- WILLIAMS, T. C., J. M. WILLIAMS, and P. D. KLOECKNER. 1986. Airspeed and heading of Autumnal migrants over Hawaii. The Auk 103: 634-635.
- WILLIAMS, T. C. and J. M. WILLIAMS. 1988. Radar and visual observations of autumnal (southward) shorebird migration on Guam. The Auk 105: 460-466.
- WILLIMONT, L. A., S. E. SENNER, and L. J. GOODRICH. 1988. Fall migration of Ruby-throated Hummingbirds in the Northeastern United States. Wilson Bulletin 10: 482-488.

- WILSON, M. F. 1976. The breeding distribution of North American migrant birds: A critique of MacArthur 1959. *Wilson Bulletin* 88: 582-587.
- WILSON, M. F. and D. J. MORIARTY. Bird species diversity in forest: understory analysis of mist net samples. *Oecologia* 25: 373-379.
- WINGFIELD, J.C., J. SCHWABL, and P.W. MATTOCKS, Jr. 1990. Endocrine mechanisms of migration, p. 232-256. In E. Gwinner (Ed.) *Bird migration*. Springer-Verlag, Berlin.
- WINKER, K. 1995. Neotropical stopover sites and Middle American migrations: the view from southern Mexico. Pages 150-163 in *Conservation of Neotropical Migrant Birds in Mexico*. (Wilson, M. and Sader, S.A, eds) Smithsonian Press, Washington, D.C.
- WINKER, K., R. J. OEHLENSCHLAGER, M.A. RAMOS, R. M. ZINK, J. H. RAPPOLE, and D. W. WARNER. 1992. Avian distribution and abundance records for the Sierra De Los Tuxtlas Veracruz Mexico. *Wilson Bulletin* 104: 669-718.
- WINKER, K., D. W. WARNER, and A. R. WEISBROD. 1992. Daily mass gains among woodland migrants at an inland stopover site. *The Auk* 109: 853-862.
- WINKER, K., D. W. WARNER, and A. R. WEISBROD. 1992. Migration of woodland birds at a fragmented inland stopover site. *Wilson Bulletin* 104: 580-598.
- WINKER, K., D. W. WARNER, and A. R. WEISBROD. 1992. The Northern Waterthrush and Swainson's Thrush as transients at a temperate inland stopover site. *Ecology and Conservation of Neotropical Migrant Landbirds; Symposium, Woods Hole, Massachusetts, December 6-9, 1989.* 384-402.
- WINKLER, H. and B. LEISLER. 1992. On the ecomorphology of migrants. *IBIS* 134. 21-28.
- WOLTMANN, S. and D. CIMPRICH. 2003. Effects of weather on autumn hawk movements at Fort Morgan, Alabama. *Southeastern Naturalist* 2: 317-326.
- WOLTMANN, S. 2001. Habitat use and movements of Sharp-shinned and Cooper's Hawks at Fort Morgan, Alabama. *North American Bird Bander* 26:150-156.
- WOOD, B. 1992. Yellow Wagtail, *Motacilla flava*, migration from West Africa to Europe: pointers towards a conservation strategy for migrants on passage. *IBIS* 134: 66-76.
- YAHNER, R. H. 1993. Effects of long-term forest clear-cutting on wintering and breeding birds. *Wilson Bulletin* 105: 239-255.
- YARBROUGH, C.G., and D.W. JOHNSTON. 1965. Lipid deposition in wintering and premigratory Myrtle Warblers. *Wilson Bull.* 77: 175-191.
- YDENBERG, R.C., R.W. BUTLER, D.B. LANK, C.G. GUGLIELMO, M. LEMON, N. WOLF. 2002. Trade-offs, condition dependence and stopover site selection by migrating sandpipers *Journal of Avian Biology* 33 (1): 47-55.

- YOM-TOV, Y. 1984. On the differences between the spring and autumn migrations in Eilat, Southern Israel. *Ringing & Migration* 5: 141-144.
- YONG, W. and F.R. MOORE. In press. Long-distance bird migrants adjust their foraging behavior in relation to energy stores. *Acta Zoologica Sinica*.
- YONG, W., D.M. FINCH, F.R. MOORE, and J.F. KELLY. 1998. Stopover ecology and habitat use of migratory Wilson's Warblers. *Auk* 115:829-842.
- YONG, W. and F.R. MOORE. 1997. Spring stopover of intercontinental migratory thrushes along the northern coast of the Gulf of Mexico. *Auk* 114: 263-278.
- YONG, W. and F.R. MOORE. 1993. Relation between migratory activity and energetic condition among thrushes (*Turdinae*) following passage across the Gulf of Mexico. *Condor* 95: 934-943.