

A bibliography of the vegetation of the Carolinas

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A bibliography of the vegetation of the Carolinas

by

Robert K. PEET

This bibliography contains literature pertaining to the vascular plant communities of the Carolinas published through 1978. A few selected important works in supporting disciplines and on the vegetation of adjacent states are also included. While considerable information has been published on the plant systematics and floristics of the Carolinas, only those contributions dealing specifically with vegetation or some closely related aspect of plant ecology have been included. The extensive, management-oriented forestry literature, and strictly autecological works have been largely omitted. Only selected ecosystem function papers have been included. In particular many of the nutrient dynamics papers from the Coweeta Experimental forest or the Savanna River Ecology Laboratory have been excluded. Many unpublished theses have been included in the bibliography but it has not been possible to search out all relevant thesis titles.

The bibliography is composed of four sections, one general and three geographic in character. These in turn are divided into one general and several specific subsections. References have been assigned to the section most appropriate for the entire work, and are listed only once in the bibliography.

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I. General

A. BACKGROUND AND GENERAL

- ASHE, W.W., 1897: Forests of North Carolina. In: PINOCHET, G. and ASHE, W.W. (eds.), *Timber trees and forests of North Carolina*. N.C. Geol. Surv. Bull. 6, 141-224.
- 1915: Loblolly of North Carolina pine. N.C. Geol. Econ. Surv. Bull. 24.
- 1922: Forest types of the Appalachians and White Mountains. *J. Elisha Mitchell Sci. Soc.* 37, 183-198.
- BARTRAM, W., 1791: *The travels of William Bartram* (Francis Harper, ed.). Yale Univ. Press (1958 Ed.).
- BRAUN, E.L., 1950: *Deciduous forests of eastern North America*, Blakiston Co., * Philadelphia.
- CARNEY, C.B., HARDY, A.V. and VAN BAVEL, C.H.M., 1964: *Weather and climate in North Carolina*. N.C. Agri. Exp. Sta. Bull. 396.
- CHRISTENSEN, N.L., 1977: Fire in southern forest ecosystems. In: *Symposium: Fire by prescription*. U.S.D.A. For. Serv., Atlanta. 17-24.
- COBB, C., 1912: *The forests of North Carolina*. The North Carolina Booklet.
- COOPER, A.W., McCRACKEN, R.J. and AULL, L.E., 1975: Vegetation and soil resources. In: CLAY, J.W., ORR, D.M. and STUART, A.W. (eds.), *North Carolina Atlas*. Univ. North Carolina Press, Chapel Hill, N.C. 128-149.
- and MERCER, E.P., 1978: Morphological variation in *Fagus grandifolia* Ehrh. in North Carolina. *J. Elisha Mitchell Sci. Soc.* 93, 136-149.
- CULBERSON, W.L., 1958: Variation in the pine-inhabiting vegetation of North Carolina. *Ecology* 39, 23-28.
- * ELLIOTT, S., 1821-24: *A sketch of the botany of South Carolina and Georgia*. J.R. Schenck, Charleston, S.C.
- GARREN, K.H., 1943: Effects of fire on vegetation of the southeastern United States. *Bot. Rev.* 9, 617-654.
- KNIGHT, H.A. and McCLURE, J.P., 1975: *North Carolina's timber resources, 1974*. U.S.F.S., Southeastern For. Exp. Sta. Res. Bull. SE-33.
- KOMAREK, E.V., 1974: Effects of fire on temperate forests and related ecosystems: Southeastern United States. In: KOZLOWSKI, T.T. and AHLGREN, C.E. (eds.), *Fire and ecosystems*. Academic Press, N.Y. 251-278.
- LEE, W.D., 1955: *The soils of North Carolina: their formation, identification and use*. N.C. Agri. Exp. Sta., Tech. Bull. 115.
- LIETH, H., 1972: Computer mapping of forest data. In: *Proc. of 51st Annual Meeting of Society of American Foresters, Appalachian Section*. Community Mailing Service, Wilmington, N.C. 53-79.
- MERCER, E.P., 1969: Variation in the morphology and ecology of *Fagus grandifolia* in North Carolina. Master's thesis, North Carolina State Univ., Raleigh, N.C.
- RADFORD, A.E., AHLES, H.E. and BELL, C.R., 1968: *Manual of the vascular flora of the Carolinas*. Univ. North Carolina Press, Chapel Hill, N.C.
- READER, R.J., 1973: Leaf emergence, leaf coloration and photosynthetic period-productivity models for the eastern deciduous forest biome. Ph. D. thesis. Univ. North Carolina, Chapel Hill, N.C.
- READER, R., RADFORD, J.S. and LIETH, H., 1974: Modeling important phenological events in eastern North America. In: LIETH, H. (ed.), *Phenology and Seasonality Modeling*. Springer Verlag, N.Y. 329-342.

* see added titles

- RIGG, G.B., 1940: Comparisons of the development of some *Sphagnum* bogs of Atlantic coast, the interior, and the Pacific Coast. *Am. J. Bot.* 27, 1-14.
- 1940: The development of *Sphagnum* bogs in North America. *Bot. Rev.* 6, 666-693.
- SHARP, D.D., LIETH, H. and WHIGHAM, D., 1975: Assessment of regional productivity in North Carolina. In: LIETH, H. and WHITTAKER, R.H. (eds.), Primary productivity of the biosphere. Springer Verlag, N.Y. 131-146.
- NOGGLE, G.R. and GROSS, H.D., 1976: Agricultural and forest primary productivity in North Carolina. *N.C. Agri. Exp. Sta., Tech. Bull.* 241.
- SOCIETY OF AMERICAN FORESTERS, 1926: Forest type classification of the southern Appalachian Mountains and the adjacent plateau and coastal plain regions. *J. For.* 26, 273-284.
- TRENTHAM, S.O., 1930: Vegetation of the artificial lakes of western North Carolina. Master's thesis. Duke Univ., Durham, N.C.
- WAGGONER, G.S., 1972: A discussion and inventory of natural areas in the oak-pine and southeastern evergreen forest regions. Master's thesis, North Carolina State Univ., Raleigh, N.C.
- 1975: Eastern deciduous forest. Vol. I. Southeastern evergreen and oak-pine region. U.S. Nat. Park Serv., Nat. Hist. Theme Studies 1.
- WAHLENBERG, W.G., 1946: Longleaf pine, its use, ecology, regeneration, protection, growth and management. Charles Lathrop Pack Forest Found., Washington, D.C.
- 1960: Loblolly pine, its use, ecology, regeneration, protection, growth and management. Seeman Printery, Inc., Durham, N.C.
- WELLS, B.V., 1924: Major plant communities of North Carolina. *N.C. Agri. Exp. Sta. Bull.* 25.
- 1932: Natural gardens of North Carolina, with keys and description of the herbaceous wild flowers found therein. Univ. North Carolina Press, Chapel Hill, N.C.
- WHARTON, C.H., 1978: The natural environments of Georgia. Georgia Dept. Nat. Resources, Atlanta, Ga.
- WILSON, K.A., 1962: North Carolina wetlands: their distribution and management. *N.C. Wildlife Res. Comm., Raleigh, N.C.*

B. HISTORY AND GEOGRAPHY

- ADAMS, C.C., 1902: Southeastern United States as a center of geographic distribution of flora and fauna. *Biol. Bull.* 3, 115-131.
- ANDERSON, L.E., 1970: Geographical relationships of the mosses of the southern Appalachian Mountains. In: HOLT, P.C. (ed.), The distributional history of the biota of the southern Appalachians. Part II. Flora. Va. Poly. Inst. and St. Univ., Res. Div. Monogr. 2, 101-133.
- and ZANDER, R.H., 1973: The mosses of the southern Blue Ridge Province and their phytogeographic relationships. *J. Elisha Mitchell Sci. Soc.* 89, 15-60.
- BRAUN, E.L., 1947: Development of the deciduous forests of eastern North America. *Ecol. Monogr.* 17, 211-219.
- 1955: The phytogeography of unglaciated eastern United States and its interpretation. *Bot. Rev.* 21, 297-375.

- BRYAN, K., 1940: Soils and periglacial phenomena in the Carolinas. *Science* 91, 523-524.
- BUELL, M.F., 1945: Late Pleistocene forests of southeastern North Carolina. *Torreya* 45, 117-118.
- 1946: Size-frequency study of fossil pine pollen compared with herbarium-preserved pollen. *Am. J. Bot.* 36, 510-516.
- CAIN, S.A., 1944: Pollen analyses of some buried soils, Spartanburg County, South Carolina. *Bull. Torrey Bot. Club* 71, 11-22.
- CARR, L.G.K., 1965: Floristic elements in southwestern Virginia - a phytogeographical consideration. *Castanea* 30, 105-145.
- CORE, E.L., 1970: The distributional history of the biota of the southern Appalachians. In: HOLT, P.C. (ed.), *The distributional history of the biota of the southern Appalachians. Part II. Flora. Va. Poly. Inst. and St. Univ., Res. Div. Monogr. 2*, 1-65.
- FREY, D.G., 1951: Pollen succession in the sediments of Singletary Lake, North Carolina. *Ecology* 32, 518-533.
- 1953: Regional aspects of the late-glacial and post-glacial pollen succession of southeastern North Carolina. *Ecol. Monogr.* 23, 289-313.
- 1955: A time revision of the Pleistocene pollen chronology of southeastern North Carolina. *Ecology* 36, 762-763.
- GRAHAM, A., 1964: Origin and evolution of the biota of southeastern North America: evidence from the fossil plant record. *Evolution* 18, 571-588.
- HARDIN, J.T. and COOPER, A.W., 1967: Mountain disjuncts in the eastern piedmont of North Carolina. *J. Elisha Mitchell Sci. Soc.* 83, 139-150.
- HOCKER, H.W., 1956: Certain aspects of climate as related to the distribution of loblolly pine. *Ecology* 37, 824-834.
- KORNAS, J., 1972: Corresponding taxa and their ecological background in the forests of temperate Eurasia and North America. In: VALENTINE, D.H. (ed.), *Taxonomy, phytogeography and evolution. Academic Press, N.Y.* 37-60.
- LI, H., 1972: Eastern Asia-Eastern North America species-pairs in wide-ranging genera. In: GRAHAM, A. (ed.), *Floristics and paleofloristics of Asia and eastern North America. Elsevier Publ. Co., N.Y.* 65-78.
- LITTLE, E.L., 1970: Endemic, disjunct and northern trees in the southern Appalachians. In: HOLT, P.C. (ed.), *The distributional history of the biota of the southern Appalachians. Part II. Flora. Va. Poly. Inst. and St. Univ., Res. Div. Monogr. 2*, 249-290.
- PATTERSON, D.T., 1976: The history and distribution of the five exotic weeds in North Carolina. *Castanea* 41, 177-180.
- TRANSEAU, E.N., 1905: Forest centers of eastern North America. *Amer. Nat.* 39, 875-889.
- VICK, A.R., 1961: Some pollen profiles from the coastal plain of North Carolina. Ph. D. thesis, Syracuse Univ., Syracuse, N.Y.
- WATTS, W.A., 1970: The full glacial vegetation of northwestern Georgia. *Ecology* 51, 17-33.
- WELLS, B.W. and WHITFORD, L.A., 1976: History of stream-head swamp forests, pocosins and savannahs in the southeast. *J. Elisha Mitchell Sci. Soc.* 92, 148-150.
- WHITEHEAD, D.R., 1963: "Northern" elements in the Pleistocene flora of the southeast. *Ecology* 44, 403-406.
- 1965: Palynology and Pleistocene phytogeography of unglaciated

- eastern North America. In: WRIGHT, H.E. and FREY, D.G. (eds.), *The Quaternary of the United States*. Princeton Univ. Press, Princeton, N.J. 417-432.
- 1967: Studies of the full glacial vegetation and climate in southeastern United States. In: CUSHING, E.J. and WRIGHT, H.E., Jr. (eds.), *Quaternary Paleocology*, New Haven. 237-248.
 - 1972: Developmental and environmental history of the Dismal Swamp. *Ecol. Monogr.* 42, 301-315.
 - 1972: Approaches to disjunct populations: the contribution of palynology. *Ann. Missouri Bot. Gard.* 59, 125-137.
 - and BARGHOORN, E.S., 1963: Pollen analytical investigations of Pleistocene deposits from western North Carolina and South Carolina. *Ecol. Monogr.* 32, 347-369.
 - and OAKS, R.Q., 1978: Developmental history of the Dismal Swamp. In: KIRK, P.W., Jr. (ed.), *The Great Dismal Swamp*. Univ. Press Virginia, Charlottesville, Va. (in press).
 - and TAN, K.W., 1969: Modern vegetation and pollen rain in Bladen County, North Carolina. *Ecology* 50, 235-248.
- WOOD, C.E., 1970: Some floristic relationships between the southern Appalachians and western North America. In: HOLT, P.C. (ed.), *The distributional history of the biota of the southern Appalachians. Part II*. *Flora. Va. Poly. Inst. and St. Univ., Res. Div. Monogr.* 2, 331-404.

C. BARRENS AND OUTCROP COMMUNITIES

- ALLARD, H.A., 1946: Shale barren associations on Massanutten Mountain, Virginia. *Castanea* 11, 71-124.
- BAKER, W.B., Studies of the flora of granitic outcrops of Georgia. *Emory Univ. Quart.* 1, 162-171.
- BURBANCK, M.P. and PLATT, R.B., 1964: Granite outcrop communities of the piedmont plateau in Georgia. *Ecology* 45, 292-306.
- HAY, J.D., 1973: An analysis of *Diamorpha* systems on granite outcrops. Master's thesis, Emory Univ., Atlanta, Georgia.
- HUNTLEY, D., 1939: A survey of vegetation of Forty-acre Rock, Lancaster County, South Carolina. Master's thesis, Duke Univ., Durham, N.C.
- KEENER, C.S., 1970: The natural history of the mid-Appalachian shale barren flora. In: HOLT, P.C. (ed.), *The distributional history of the biota of the southern Appalachians. Part II*. *Flora. Va. Poly. Inst. and St. Univ., Res. Div. Monogr.* 2, 215-248.
- KEEVER, N.C., 1942: Plant succession on exposed granite of Rocky Face Mountain in Alexander County, North Carolina. Master's thesis, Duke Univ. Durham, N.C.
- OOSTING, J. and ANDERSON, L.E., 1951: Plant succession on exposed granite of Rocky Face Mountain, Alexander County, North Carolina. *Bull. Torr. Bot. Club* 78, 401-421.
- LARSON, S.S., 1977: The vegetation of vertical rock faces in Pickens and Greenville Counties, South Carolina. Master's thesis, Univ. South Carolina, Columbia, S.C.
- LUGO, A., 1969: Carbon, water and energy budgets of a granite outcrop community. Ph.D. thesis. Univ. North Carolina Chapel Hill, N.C.

- MCCORMICK, J.F., LUGO, A.E. and SHARITZ, R.R., 1974: Experimental analysis of ecosystems. *Handbook Veg. Sci.* 6, 149-179, Junk, The Hague.
- McVAUGH, R., 1943: The vegetation of the granitic flat-rocks of the southeastern United States. *Ecol. Monogr.* 13, 119-166.
- MELLINGER, A.C., 1972: Ecological life cycle of *Vigniera porteri*. Ph.D. thesis, Univ. North Carolina, Chapel Hill, N.C.
- MURDY, W.H., 1968: Plant specification associated with granite outcrop communities of the southeastern piedmont. *Rhodera* 70, 394-407.
- OOSTING, H.J., 1941: Plants occurring on calcareous rock outcrops in North Carolina. *Torreyia* 41, 76-81.
- and ANDERSON, L.E., 1937: The vegetation of the bare-faced cliff in western North Carolina. *Ecology* 18, 280-292.
- 1939: Plant succession on granite rock in eastern North Carolina. *Bot. Gaz.* 100, 750-768.
- PALMER, P.G., 1970: The vegetation of Overton Rock outcrop, Franklin County, North Carolina. *J. Elisha Mitchell Sci. Soc.* 86, 80-87.
- PLATT, R.B., 1951: An ecological study of the mid-Appalachian shale barrens and of the plants endemic to them. *Ecol. Monogr.* 21, 269-300.
- QUARTERMAN, E., 1950: Major plant communities of Tennessee cedar glades. *Ecology* 31, 234-254.
- ROGERS, S.E., 1971: Vegetational and environmental analysis of shrub-tree communities on a granite outcrop. Master's thesis. Emory Univ., Atlanta, Georgia.
- SHARITZ, R.R., 1970: Population dynamics of two competing plant species. Ph. D. thesis. Univ. North Carolina, Chapel Hill, N.C.
- and MCCORMICK, J.F., 1973: Population dynamics of two competing annual plant species. *Ecology* 54, 723-740.
- SHURE, D.J. and RAGSDALE, H.J., 1977: Patterns of primary succession on granite outcrop surfaces. *Ecology* 58, 993-1006.
- SNYDER, J.M., 1971: Interactions within the weathering environment of lichen-moss ecosystems on exposed granite. Ph.D. thesis, Emory Univ., Atlanta, Georgia.
- WIGGS, N.D. and PLATT, R.B., 1962: Ecology of *Diamorpha cymosa*. *Ecology* 43, 654-670.
- WYATT, R. and FOWLER, N., 1977: The vascular flora and vegetation of the North Carolina granite outcrops. *Bull. Torrey Bot. Club* 104, 245-253.

II. Mountains

A. GENERAL

- AYRES, H.B. and ASHE, W.W., 1905: The southern Appalachian Forests. U.S.G.S. Prof. Pap. 37, Washington, D.C.
- BARDEN, L.S., 1974: Lightning fires in southern Appalachian forests. Ph. D. thesis, Univ. Tennessee, Knoxville, Tenn.
- and WOODS, F.W., 1974: Characteristics of lightning fires in southern Appalachian forests. *Proc. Tall Timbers Fire Ecol. Conf.* 13, 345-362.

- BILLINGS, W.A. and DREW, W.B., 1938: Bark factors effecting the distribution of corticolous bryophyte communities. *Am. Midl. Nat.* 20, 302-330.
- BOUFFORD, D.E. and WOOD, E.W., 1977: An unusual plant community in South Carolina. *Castanea* 42, 116-119.
- CAIN, S.A., 1930: The vegetation of the Great Smoky Mountains, an ecological study. Ph. D. thesis, Univ. Chicago, Chicago, Ill.
- 1931: Ecological studies of the vegetation of the Great Smoky Mountains of North Carolina and Tennessee. I. Soil reaction and plant distribution. *Bot. Gaz.* 91, 22-41.
- 1936: Ecological work on the Great Smoky Mountain region. *Castanea* 1, 25-32.
- 1945: A biological spectrum of the flory of the Great Smoky Mountains National Park. *Butler Univ. Bot. Studies* 7, 11-24.
- and MILLER, J.D.O., 1933: Leaf structure of *Rhododendron catawbiense* Michx. grown in *Picea-Abies* forest and in heath communities. *Am. Midl. Nat.* 14, 69-82.
- and SHARP, A.J., 1938: Bryophytic unions of certain forest types of the Great Smoky Mountains. *Am. Midl. Nat.* 20, 249-301.
- DAVIS, J.H., Jr., 1929: Vegetation of the Black Mountains of North Carolina. Ph. D. thesis, Univ. Chicago, Chicago, Ill.
- 1930: Vegetation of the Black Mountains of North Carolina: An ecological study. *J. Elisha Mitchell Sci. Soc.* 45, 291-318.
- GETTMAN, R.W., 1974: A floristic survey of Sumpster National forest - Andrew Pickins Division. Master's thesis, Clemson Univ., Clemson, S.C.
- GIBSON, J.R., 1969: The flora of Alder Run Bog, Tucker County, West Virginia. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- GRAY, A., 1842: "Notes of botanical excursion to the mountains of North Carolina," in a letter to Sir William Hooker, *Am. Sci. and Arts* 42, 1-49.
- GREENLEE, K.W., 1974: Vegetative analysis of a pristine and selectively cut cove forest of the Unicoi Mountains, western North Carolina. Master's thesis, Western Carolina Univ., Cullowhee, N.C.
- HARPER, R.M., 1910: Summer notes on the mountain vegetation of Haywood County, N.C., *Torreya* 10, 53-64.
- HARSHBERGER, J.W., 1903: An ecological study of the flora of mountainous North Carolina. *Bot. Gaz.* 36, 241-258, 368-383.
- HOLMS, J.S., 1911: Forest conditions in western North Carolina. *N.C. Geol. and Econ. Surv. Bull.* 23, 1-111.
- HOWE, T.D. and BRATTON, S.P., 1976: Winter rooting activity of the European wild boar in the Great Smoky Mountains National Park. *Castanea* 41, 256-264.
- KING, P.B. and STUPKA, A., 1950: The Great Smoky Mountains - their geology and natural history. *Sci. Monthly* 71, 31-43.
- MICHAEL, J.L., 1969: The vascular flora of the Bullhead Mountain, Alleghany County, North Carolina. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- MOORE, T.A., 1972: The phytogeography of Boone Fork Sphagnum bog. Master's thesis. Appalachian St. Univ., Boone, N.C.
- OOSTING, H.J. and ANDERSON, L.E., 1937: The vegetation of a bare faced cliff in western North Carolina. *Ecology* 18, 280-292.
- PATTON, E.G., 1956: The development of white pine forest and soil on abandoned farm lands in the North Carolina Blue Ridge. Ph. D. thesis, Duke Univ., Durham, N.C.

- PITTILLO, J.D., 1976: Potential natural landmarks of the Southern Blue Ridge portion of the Appalachian Ranges Natural Region. U.S. Nat. Park Serv. Report.
- and GOVUS, T.E., 1978: A manual of important plant habitats of the Blue Ridge Parkway. U.S. Nat. Park. Serv. Report. SE Regional Office.
- PONDIER, A.D., 1972: Hawksbill Mountain; the plant synecology of its peak and south slope. Master's thesis, East Tennessee St. Univ., Johnson City, Tenn.
- RADFORD, A.E., 1948: The vascular flora of the olivine deposits of North Carolina and Georgia. Ph. D. thesis, Univ. North Carolina, Chapel Hill, N.C.
- 1948: The vascular flora of the olivine deposits of North Carolina and Georgia. J. Elisha Mitchell Sci. Soc. 64, 45-106.
- RAMSEUR, G.S., 1958: The vascular flora of the high mountain communities of the southern Appalachians. Ph. D. thesis, Univ. North Carolina, Chapel Hill, N.C.
- 1960: The vascular flora of high mountain communities of the southern Appalachians. J. Elisha Mitchell Sci. Soc., 76, 82-112.
- REED, F.W., 1905: Report on an examination of a forest tract in western North Carolina. U.S.D.A., Bur. Forestry Bull. 60, 1-32.
- RIGG, G.B. and STRAUSBAUGH, P.D., 1949: Some states in the development of *Sphagnum* bogs in West Virginia. Castanea 14, 129-148.
- ROMANCIER, R.M., 1971: Ecology of the seedling establishment of *Rhododendron maximum* L. in the southern Appalachians. Ph. D. thesis, Duke Univ., Durham, N.C.
- ROOSEVELT, T., 1902: Report of Secretary of Agriculture in relation to forests, rivers and mountains of Southern Appalachian Region. Gov. Printing Office.
- SHANKS, R.E., 1954: Climates of the Great Smoky Mountains. Ecology 35, 354-361.
- 1956: Altitudinal and microclimatic relationships of soil temperature under natural vegetation. Ecology 37, 1-7.
- SMALL, J.M., 1901: The summit flora of King's Mt. and Crowder's Mt., North Carolina. Torreyia 1, 7-8.
- SMITH, R.C., 1963: Some aspects of variation in growth and development of *Rhododendron maximum* L. in western North Carolina. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- TUCKER, G.E., 1967: The vascular flora of Bluff Mountain, Ashe County, North Carolina. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- TUCKER, L.W., 1973: Vegetation analysis of Joyce Kilmer Memorial Forest. Master's thesis, Western Carolina Univ., Cullowhee, N.C.
- WHIGHAM, D.F., 1969: Vegetation patterns on the north slopes of Bluff Mountain, Ashe County, North Carolina. J. Elisha Mitchell Sci. Soc. 85, 1-15.
- WHITTAKER, R.H., 1948: A vegetation analysis of Great Smoky Mountains. Ph. D. thesis, Univ. Illinois, Urbana, Ill.
- 1951: A criticism of the plant association and climatic climax concepts. Northwest Sci. 25, 17-31.
- 1952: A study of summer foliage insect communities in the Great Smoky Mountains. Ecol. Monogr. 22, 1-44.
- 1956: Vegetation of the Great Smoky Mountains. Ecol. Monogr. 26, 1-80.
- 1961: Estimation of net primary production of forest and shrub communities. Ecology 42, 177-180.

- 1962: Net production relations of shrubs in the Great Smoky Mountains. *Ecology* 43, 357-377.
 - 1963: Net production of heath balds and forest heaths in the Great Smoky Mountains. *Ecology* 44, 176-182.
 - 1966: Forest dimensions and production in the Great Smoky Mountains. *Ecology* 47, 103-121.
- WOLFE, C.B., 1975: Some ecological factors influencing the distribution of *Betula nigra* L. in western North Carolina. Master's thesis, Western Carolina Univ., Cullowhee, N.C.
- and PITTILLO, J.D., 1977: Some ecological factors influencing the distribution of *Betula nigra* L. in western North Carolina. *Castanea* 42, 18-30.

B. UPLAND HARDWOOD FORESTS

- BARON, J., DOMBROWSKI, C. and BRATTON, S.P., 1975: The status of fire exotic woody plants in the Tennessee District, Great Smoky Mountains National Park. Mgt. Rpt. 2. Uplands Field Res. Lab., U.S. Natl. Park Serv.
- BIERI, R. and ANLIOT, S.F., 1965: The structure and floristic composition of a virgin hemlock forest in West Virginia. *Castanea* 30, 205-226.
- BRATTON, S.P., 1974: The effect of the European wild boar (*Sus scrofa*) on the high-elevation vernal flora in Great Smoky Mountains National Park. *Bull. Torrey Bot. Club* 101, 198-206.
- 1975: The structure and diversity of herbaceous understory communities in temperate deciduous forests. Ph. D. thesis, Cornell Univ., Ithaca, N.Y.
 - 1975: The effect of the European wild boar (*Sus scrofa*) on gray beech forest in the Great Smoky Mountains. *Ecology* 56, 1356-1366.
 - 1976: The response of understory herbs to soil depth gradients in high and low diversity communities. *Bull. Torrey Bot. Club* 103, 165-172.
 - 1976: Resource division in an understory herb community: Responses to temporal and microtopographic gradients. *Amer. Nat.* 110, 679-693.
- CAIN, S.A., 1930: Certain floristic affinities of the trees and shrubs of the Great Smoky Mountains and vicinity. *Butler Univ. Bot. Stud.* 1, 129-150.
- 1940: An interesting behaviour of yellow birch in the Great Smoky Mountains. *Chicago Nat.* 3, 20-21.
 - 1943: The tertiary character of the cove hardwood forests of the Great Smoky Mountains National Park. *Bull. Torrey Bot. Club* 70, 213-235.
- DeLAPP, J.A., 1978: Gradient analysis and classification of the high elevation red oak community of the southern Appalachians. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- DOWNS, A.A. and McQUILKIN, W.E., 1944: Seed production of the southern Appalachian oaks. *J. Forest.* 42, 913-920.
- HICKS, D.J., 1978: A niche analysis of estival herb communities of cove forest. Master's thesis, Cornell Univ., Ithaca, N.Y.
- 1978: Aspects of forest microclimate in the Great Smoky Mountains. *J. Tenn. Acad. Sci.* (in press).

- HUFF, M.H., 1977: The effect of the European wild boar (*Sus scrofa*) on the woody vegetation of grey beech forest in the Great Smoky Mountains. Mgt. Rpt. 18. Uplands Field Res. Lab., U.S. Nat. Park Serv.
- KEEVER, C., 1953: Present composition of some stands of the former oak-chestnut forest in the southern Blue Ridge Mountains. *Ecology* 34, 44-54.
- KESSELL, S.R., 1972: A model of eastern and Carolina hemlock (*Tsuga canadensis* and *T. caroliniana*) distribution, productivity and competition in Linville Gorge, Linville Falls, North Carolina. Bachelor's thesis, Amherst College, Amherst, Mass.
- LORIMER, C., 1976: Stand history and dynamics of a southern Appalachian virgin forest. Ph. D. thesis, Duke Univ., Durham, N.C.
- NELSON, T.C., 1955: Chestnut replacement in the southern highlands. *Ecology* 36, 352-353.
- OOSTING, H.J. and BOURDEAU, P.F., 1955: Virgin hemlock forest segregates in the Joyce Kilmer Memorial Forest of western North Carolina. *Bot. Gaz.* 116, 340-359.
- PECK, K.W., 1954: Bryophytic unions in the virgin hemlock community of the Joyce Kilmer Memorial Forest. Master's thesis, Duke Univ., Durham, N.C.
- RUNKLE, J.R., 1979: Gap phase dynamics in climax mesic forests. Ph. D. thesis, Cornell Univ., Ithaca, N.Y.
- RUSSELL, N.H., 1953: The beech gaps of the Great Smoky Mountains. *Ecology* 34, 366-374.
- STEPHENSON, S.L., 1974: Ecological composition of some former oak-chestnut communities in western Virginia. *Castanea* 39, 278-286.
- WOODS, F.W. and SHANKS, R.E., 1957: Replacement of chestnut in the Great Smoky Mountains of Tennessee and North Carolina. *J. Forestry* 55, 847.
- ZOBEL, D.B., 1968: Factors influencing the distribution of *Pinus pungens*, an Appalachian endemic. Ph. D. thesis, Duke Univ., Durham, N.C.
- 1969: Factors affecting the distribution of *Pinus pungens*, an Appalachian endemic. *Ecol. Monogr.* 39, 303-333.

C. THE SOUTHERN BLUE RIDGE (HIGHLANDS AND COWEETA)

- BILLINGS, W.D. and ANDERSON, L.E., 1966: Some microclimatic characteristics of habitats of endemic and disjunct bryophytes in the southern Blue Ridge. *The Bryologist* 69, 76-95.
- COOPER, A.W., 1963: A survey of the vegetation of the Toxaway River Gorge with some remarks about early botanical explorations and an annotated list of the vascular plants of the gorge area. *J. Elisha Mitchell Sci. Soc.* 79, 1-22.
- and HARDIN, J.W., 1971: Floristics and vegetation of the gorges on the southern Blue Ridge escarpment. In: HOLT, P.C. (ed.), *The distributional history of the biota of the Southern Appalachians. Part II.* Flora. Va. Poly. Inst. and St. Univ., Res. Div. Monogr. 2, 291-330.
- CRANDELL, A.E., 1977: A vegetation study of Jones Gap, South Carolina: floristic and some ecological considerations. Master's thesis, Univ. of South Carolina, Columbia, S.C.
- DAY, F.P., 1971: Vegetation of a hardwood watershed at Coweeta. Master's thesis. Univ. Georgia, Athens, Ga.

- 1974: Primary production and nutrient pools in the vegetation of a southern Appalachian watershed. Ph. D. thesis, Univ. Georgia, Athens, Ga.
- and MONK, C.D., 1974: Vegetation patterns on a southern Appalachian watershed. *Ecology* 55, 1064-1074.
- 1977: Net primary production and phenology of a southern Appalachian watershed. *Am. J. Bot.* 64, 1117-1125.
- 1977: Seasonal nutrient dynamics in the vegetation of a southern Appalachian watershed. *Am. J. Bot.* 64, 1126-1139.
- DUMOND, D.M., 1969: Floristic and vegetational survey of the Chattooga River Gorge. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- 1970: Floristic and vegetational survey of the Chattooga River Gorge. *Castanea* 35, 201-244.
- FARRAR, D.R. 1967: Gamtophytes of four tropical fern genera reproducing independently of their sporophytes in the southern Appalachians. *Science* 155, 1266-1267.
- FREEMAN, O.M., 1958: Notes on some plant associations in Greenville and Pickens Counties, South Carolina. *Castanea* 23, 46-48.
- HARDIN, J.W. and SHAW, G.G., 1975: A preliminary study of the flora and fauna in the Pullman Creek Watershed and Green River Gorge. North Carolina Agr. Exp. Station, North Carolina St. Univ., Raleigh, N.C.
- HELVEY, J.D. and HEWLETT, J.D., 1962: The annual range of soil moisture under high rainfall in the southern Appalachians. *J. Forest.* 60, 485-486.
- HURSH, C.R. and HAASIS, F.W., 1931: Effects of 1925 summer drought on southern Appalachians hardwoods. *Ecology* 12, 380-386.
- JOHNSON, P.L. and SWANK, W.T., 1973: Studies of cation budgets in the southern Appalachians on four experimental watersheds with contrasting vegetation. *Ecology* 54, 70-80.
- IGLICH, E., 1975: Age structure of red, black and scarlet oaks, sourwood, sourgum and tulip tree populations on watershed 18 at Coweeta. Master's thesis, Univ. Georgia, Athens, Ga.
- KOVNER, J.L., 1955: Changes in streamflow and vegetation characteristics of a southern Appalachian mountain watershed. Ph. D. thesis, St. Univ. New York.
- 1957: Evapotranspiration in forest stands of the southern Appalachian Mountains. *Ga. Acad. Sci. Bull.* 15, 80-85.
- LOSCHKE, C.K., 1967: Soil genesis and forest growth on steeply sloping landscapes of the southern Appalachians. Ph. D. thesis, North Carolina St. Univ., Raleigh, N.C.
- MCGINTY, D.T., 1972: The ecological roles of *Kalmia latifolia* and *Rhododendron maximum* in the hardwood forest at Coweeta. Master's thesis, Univ. Georgia, Athens, Ga.
- MONK, C.D., CHILD, G.I. and NICHOLSON, S.A., 1970: Biomass, litter and leaf surface area estimates of an oak-hickory forest. *Oikos* 21, 138-141.
- CROSSLEY, D.A., TODD, R.L., SWANK, W.T., WAIDE, J.B. and WEBSTER, J.R., 1977: An overview of nutrient cycling research at Coweeta Hydrologic Laboratory. In: CARROLL, D.L. (ed.), *Watershed research in eastern North America*. Smithsonian Inst., Edgewater, Md. 1, 35-50.
- DAY, F.P. and SWANK, W.T., 1971: Dry weight of tree and shrub species from the Coweeta Hydrologic Laboratory, Franklin, N.C. In: SOLLINS,

- P. and ANDERSON, R.M. (eds.), Dry weight and other data for trees and woody shrubs of the southeastern U.S., *Ecol. Sci. Div. Publ. 407 ORNL-IBP-71-6*, 26-27.
- MOWBRAY, T.B., 1964: Vegetational gradients in the Bearwallow Gorge of the Blue Ridge escarpment. Master's thesis, Duke Univ., Durham, N.C.
- 1966: Vegetational gradients in the Bearwallow Gorge of the Blue Ridge Escarpment. *J. Elisha Mitchell Sci. Soc.* 82, 138-149.
 - 1967: Vegetation gradients in relation to environment and phenology in a southern Blue Ridge gorge. Ph. D. thesis, Duke Univ., Durham, N.C.
 - and OOSTING, H.J., 1968: Vegetation gradients in relation to environment and phenology in a southern Blue Ridge gorge. *Ecol. Monogr.* 38, 309-344.
- OOSTING, H.J. and BILLING, W.D., 1939: Edapho-vegetational relations in Revenel's Woods. A virgin hemlock forest near Highlands, North Carolina. *Am. Midl. Natur.* 22, 333-350.
- RACINE, C.H., 1965: Pine ridge communities in the Thompson River area of the Blue Ridge escarpment. Master's thesis, Duke Univ., Durham, N.C.
- 1966: Pine communities and their site characteristics in the Blue Ridge escarpment. *J. Elisha Mitchell Sci. Soc.* 82, 172-181.
 - 1969: Tree production in relation to vegetational gradients on slopes in the southern Blue Ridge Mountains. Ph. D. thesis, Duke Univ., Durham, N.C.
 - and HARDIN, J.W., 1975: The vascular flora and vegetation in the Green River Gorge, North Carolina. *Castanea* 40, 319-345.
 - 1971: Reproduction of three species of oak in relation to vegetational and environmental gradients in the southern Blue Ridge. *Bull. Torrey Bot. Club* 98, 297-310.
- RODGERS, C.L., 1942: The plant communities of Table Rock, Pickens County, South Carolina. Master's thesis, Duke Univ., Durham, N.C.
- 1965: The vegetation of Horsepasture Gorge. *J. Elisha Mitchell Sci. Soc.* 81, 103-112.
 - 1969: Vascular plants in Horsepasture Gorge. *Castanea* 34, 374-394.
 - and SHAKE, R.E., 1965: Survey of vascular plants in Bearcamp Creek watershed. *Castanea* 30, 149-166.
- SANTEE, W.R., 1978: A dimensional analysis of eastern hemlock (*Tsuga canadensis*). Master's thesis, Univ. Georgia, Athens, Ga.
- SCHRENDER, H.T. and SWANK, W.T., 1973: Statistical considerations in sampling biomass and surface area over time for *Pinus strobus* L. forest. *IUFRO Biomass Studies*, Univ. Maine 133-141.
- SPRING, P., 1973: Population dynamics of *Acer rubrum*, *Cornus florida* and *Quercus prinus* in the watershed 18 ecosystem at Coweeta. Master's thesis, Univ. Georgia, Athens, Ga.
- SWANK, W.T. and DOUGLASS, J.E., 1977: Nutrient budgets for undisturbed and manipulated hardwood forest ecosystems in the mountains of North Carolina. In: CARROLL, D.L. (ed.), *Watershed research in eastern North America*. Smithsonian Inst., Edgewater, Md. 1, 343-364.
- and SCHRENDER, H.T., 1973: Temporal changes in biomass, surface area, and net production for a *Pinus strobus* L. forest. *IUFRO Biomass Studies*, Univ. Maine 171-182.
 - and SCHREUDER, H.T., 1974: Comparison of three methods of estimating

- surface area and biomass for a forest of young eastern white pine. *Forest Sci.* 20, 91-100.
- SWIFT, L.W., Jr., 1972: Effect of forest cover and mountain physiography on the radiant energy balance. D.F. thesis, Duke Univ., Durham, N.C.
- WAGNER, W.H., Jr., FARRAR, D.R. and McALPIN, B.W., 1970: Pteridology of the Highlands biological station area, southern Appalachians. *J. Elisha Mitchell Sci. Soc.* 86, 1-27.
- WARE, D.M.E., 1973: Floristic survey of the Thompson River watershed. *Castanea* 38, 349-378.

D. SPRUCE AND FIR FORESTS

- ALLARD, H.A. and LEONARD, E.C., 1952: The Canaan and Stony River Valleys of West Virginia, their former magnificent spruce forests, their vegetation and floristics today. *Castanea* 17, 1-60.
- CAIN, S.A., 1935: Ecological studies of the vegetation of the Great Smoky Mountains. II. The quadrat method applied to sampling spruce and fir forest types. *Amer. Midl. Natur.* 16, 566-584.
- CASTRO, P.A., 1969: A quantitative study of the subalpine forest of Roan and Bald Mountains in the southern Appalachians. Master's thesis, East Tennessee St. Univ., Johnson City, Tenn.
- CORE, E.L., 1929: Plant ecology of Spruce Mountain, West Virginia. *Ecology* 10, 1-13.
- CRANDALL, D.L., 1958: Ground vegetation patterns of the spruce-fir area of the Great Smoky Mountains National Park. *Ecol. Monogr.* 28, 337-360.
- 1960: Ground vegetation patterns of the spruce-fir area of the Great Smoky Mountains National Park. *Virginia J. Sci.* 11, 9-18.
- FOX, F.J., 1977: Alternation and coexistence of tree species. *Am. Natur.* 111, 69-89.
- HAY, R.L., EAGAR, C.C. and JOHNSON, K.D., 1976: Status of the Balsam woolly aphid in the Great Smoky Mountain National Park - 1976. Mgt. Rpt. 20. Uplands Field Res. Lab., U.S. Nat. Park Serv.
- KORSTIAN, C.F., 1937: Perpetuation of spruce on cut-over and burned lands in the higher southern Appalachian Mountains. *Ecol. Monogr.* 7, 125-167.
- NORRIS, D.H., 1964: Bryoecology of the Appalachian spruce-fir zone. Ph. D. thesis, Univ. Tennessee, Knoxville, Tenn.
- OOSTING, H.J. and BILLINGS, W.D., 1951: A comparison of virgin spruce-fir forest in the northern and southern Appalachian system. *Ecology* 32, 84-103.
- RAMSEUR, G.S., 1976: Secondary succession in the spruce-fir forest of the Great Smoky Mountains National Park. Mgt. Rpt. 7. Uplands Res. Lab., U.S. Nat. Park Serv.
- SCHWARZKOPF, S.K., 1974: Comparative vegetation analysis of five spruce-fir areas in the southern Appalachians. Bachelor's thesis, Furman Univ., Greenville, South Carolina.
- SCOFIELD, W.B., 1960: The ecotone between spruce-fir and deciduous forest in the Great Smoky Mountains. Ph. D. thesis, Duke Univ., Durham N.C.
- SHIELDS, A.R., 1962: The isolated spruce and spruce-fir forest of southwestern Virginia: a biotic study. Ph. D. thesis, Univ. Tennessee, Knoxville, Tenn.

- WEAVER, G.T., 1972: Dry matter and nutrient dynamics in red spruce-Fraser fir and yellow birch ecosystems in the Balsam Mountains, western North Carolina. Ph. D. thesis, Univ. Tennessee, Knoxville, Tenn.
- 1975: The quantity and distribution of four nutrient elements in high-elevation forest ecosystems, Balsam Mountains, North Carolina. In: HOWELL, F.G., GENTRY, J.B. and SMITH, M.H. (eds.), Mineral cycling in southeastern ecosystems. ERDA Symp. Series CONF-740513. 715-728.
 - and DeSELM, H.R., 1973: Biomass distributional patterns in adjacent coniferous and deciduous forest ecosystems. IUFRO Biomass Studies, Univ. Maine. 413-427.
- WOLFE, J.A., 1967: Forest soil characteristics as related to vegetation and bedrock in the spruce-fir zone of the Great Smoky Mountains. Ph. D. thesis, Univ. Tennessee, Knoxville, Tenn.

E. BALD COMMUNITIES

- BEETHAM, N.M., 1958: Pollen studies of forest and bald soils from the mountains of North Carolina. Master's thesis, Duke Univ., Durham, N.C.
- BILLINGS, W.D. and MARK, A.F., 1957: Factors involved in the persistence of montane treeless balds. *Ecology* 38, 140-142.
- BROWN, D.M., 1938: The vegetation of the Roan Mountain: An ecological study. Ph. D. thesis, Duke Univ., Durham, N.C.
- 1941: Vegetation of Roan Mountain: A phytosociological and successional study. *Ecol. Monogr.* 11, 61-97.
 - 1953: Conifer transplants to a grassy bald on Roan Mountain. *Ecology* 34, 614-617.
- BRUHN, M.E., 1964: Vegetational succession on three grassy balds of the Great Smoky Mountains. Master's thesis, Univ. Tennessee, Knoxville, Tenn.
- CAIN, S.A., 1930: An ecological study of the heath balds of the Great Smoky Mountains. *Butler Univ. Bot. Stud.* 1, 177-208.
- CAMP, W.H., 1931: The grass balds of the Great Smoky Mountains of Tennessee and North Carolina. *Ohio J. Sci.* 31, 157-164.
- DAUBENMIRE, R.F., 1954: Alpine timberlines in the Americas and their interpretation. *Butler Univ. Bot. Stud.* 11, 119-130.
- FINK, P.M., 1931: A forest enigma. *Amer. Forests* 37, 538.
- GATES, W.H., 1941: Observations on the possible origin of the balds of the southern Appalachians. Louisiana State Univ. Press, Baton Rouge.
- GERSMEHL, P.J., 1969: A geographic evaluation of the ecotonal hypothesis of bald location in the southern Appalachians. *Proc. Assn. Amer. Geogr.* 1, 51-54.
- 1971: A geographic approach to a vegetation problem: The case of the southern Appalachian grassy balds. Ph. D. thesis, Univ. Georgia, Athens, Ga.
 - 1971: Factors involved in the persistence of southern Appalachian treeless balds. *Proc. Assn. Amer. Geogr.* 3, 56-61.
 - 1973: Pseudo-timberline: the southern Appalachian grassy balds. *Arctic Alp. Res.* 5, A137-A138.
- GILBERT, V.C., Jr., 1954: Vegetation of the grassy balds of the Great Smoky Mountains National Park. Master's thesis, Univ. Tennessee, Knoxville, Tenn.

- JENKINS, W.R. and AYRES, M.A., 1951: The mountain oakgrass communities of the region of Mountain Lake, Virginia. *Castanea* 16, 92-96.
- KRING, J.B., 1965: Vegetational succession at Craggy Gardens, North Carolina. Master's thesis, Univ. Tennessee, Knoxville, Tenn.
- LINDSAY, M., 1976: History of the grassy balds in Great Smoky Mountains National Park. Mgt. Rpt. 4, Uplands Field Res. Lab., U.S. Nat. Park Serv.
- 1977: Management of grassy balds in Great Smoky Mountains National Park. Mgt. Rpt. 17. Uplands Field Res. Lab., U.S. Nat. Park Serv.
 - 1978: The vegetation of grassy balds and other high elevation disturbed areas in the Great Smoky Mountains National Park. Mgt. Rpt. 26, Uplands Field Res. Lab., U.S. Nat. Park Serv.
- MARK, A.F., 1958: An ecological study of the grass balds of the southern Appalachian Mountains. Ph. D. thesis, Duke Univ., Durham, N.C.
- 1958: The ecology of the southern Appalachian grass balds. *Ecol. Monogr.* 28, 293-336.
 - 1958: The flora of the grass balds and fields of the southern Appalachian Mountains. *Castanea* 24, 1-21.
- METRESS, J.F., 1977: The place of the Amerindian in the origin of the southern Appalachian grass balds. In: ROMANS, R.C. (ed.), *Geobotany*. Plenum Press, N.Y. 233-246.
- RADFORD, S.W., 1968: Factors involved in the maintenance of the grassy balds of the Great Smoky Mountains National Park. Master's thesis, Univ. Tennessee, Knoxville, Tenn.
- WELLS, B.W., 1936: Origin of the southern Appalachian grass balds. *Science* 83, 283.
- 1936: Andrews Bald: The problem of its origin. *Castanea* 1, 59-62.
 - 1937: Southern Appalachian grass balds. *J. Elisha Mitchell Sci. Soc.* 53, 1-26.
 - 1938: Southern Appalachian grass balds as evidence of Indian occupation. *Bull. Arch. Soc. N.C.* 5, 2-7.
 - 1946: Archeological disclimaxes. *J. Elisha Mitchell Sci. Soc.* 62, 51-53.
 - 1956: Origin of southern Appalachian grass balds. *Ecology* 37, 592.
 - 1961: The southern Appalachian grass bald problems. *Castanea* 26, 98-100.

III. Piedmont

A. GENERAL

- APPLEQUIST, M.B., 1941: Stand composition of upland hardwood forests as related to soil type in the Duke Forest. Master's thesis, Duke Univ., Durham, N.C.
- BARNETT, R.J., 1976: Interactions between tree squirrels and oaks and hickories: the ecology of seed predation. Ph. D. thesis, Duke Univ., Durham, N.C.
- BATSON, W.T., 1952: The floristics of the Iredell soil series in the central piedmont of North Carolina. Ph. D. thesis, Duke Univ., Durham, N.C.

- HOY, W.E., KELLEY, W.R. and PENNEY, J.T., 1958: The flora of the John de la Howe School forest. Univ. S. Car. Publ. III. Biol. 2, 175-181.
- BEARD, L.S., 1958: A floristic study along the lower Deep River of North Carolina. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- BILLINGS, W.D., 1935: Some effects of the removal of the "A" horizon on the soil and the vegetation. Master's thesis, Duke Univ., Durham, N.C.
- BLACKMON, B.G. and RALSTON, C.W., 1968: Dry weight of several piedmont hardwoods. J. For. 66, 418-420.
- BLUFF, L.H., Jr., 1973: A floristic and ecologic study of Billy Dreher Island, South Carolina. Ph. D. thesis, Univ. South Carolina, Columbia, S.C.
- BORMANN, F.H., 1950: The statistical efficiency of plot size and shape in forest ecology. Master's thesis, Duke Univ., Durham, N.C.
- 1953: The statistical efficiency of sample plot size and shape in forest ecology. Ecology 34, 474-487.
- BORNKAMM, R., 1975: Some observations on weed communities in the city of Durham, North Carolina, U.S.A. Beitr. Naturk. Forsch. Südw.-Dtl. 34, 15-24.
- 1975: A vegetation map of the Henry J. Oosting Natural Area, Orange County, North Carolina. Duke Univ. School for Envir. Stud., Techn. Pap. 3.
- BURKHART, H.E. and STRUB, M.R., 1973: Dry weight yield estimates for loblolly pine: a comparison of two techniques. In: IUFRO Biomass Studies, Univ. Maine. 29-40.
- COFFEY, J.C., 1964: A floristic study of the flat granitic outcrops of the lower piedmont, South Carolina. Master's thesis, Univ. South Carolina, Columbia, S.C.
- CRUIKSHANK, J.W., 1940: Forest resources of the piedmont region of North Carolina. U.S.F.S., App. For. Exp. St., For. Surv. Rel. 6.
- DAYTON, B.R., 1965: A study of the vegetation of Iredell clay loam. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- 1966: The relationship of vegetation to Iredell and other piedmont soils in Granville County, North Carolina. J. Elisha Mitchell Sci. Soc. 82, 108-118.
- DuMOND, D.M., 1972: An inventory of plant communities, Belews Lake, September-November 1971. In: WEISS, C.M. (ed.), Environmental assessment: Belews Creek-Belews Lake. Univ. North Carolina, Dept. Envir. Sci. Eng., Chapel Hill, N.C. Publ. 317. 113-133.
- EBERT, J.B., 1957: Bluff vegetation in lower piedmont of North Carolina. Master's thesis, Duke Univ., Durham, N.C.
- GAISER, R.N., 1941: Forest types of Durham County, North Carolina. Master's thesis, Duke Univ., Durham, N.C.
- GEMBORYS, S.R., 1974: The structure of hardwood forest ecosystems of Prince Edward County, Virginia. Ecology 55, 614-621.
- GIBBON, E.L., 1966: The vegetation of three monadnocks in the eastern piedmont of North Carolina. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- GLAZIER, D.C., 1967: An analysis of the vegetation and soils of upland hardwood stands in the piedmont and coastal plain of Moore County, North Carolina. Master's thesis, North Carolina St. Univ., Raleigh, N.C.

- GONZALES-BUSCAN, V.C., 1972: The ecology of *Hexastylis arifolia*, an evergreen herb in the North Carolina deciduous forest. Ph. D. thesis, Duke Univ., Durham, N.C.
- HARRIS, W.F. and KINERSON, R.S., 1973: Comparison of belowground biomass of natural deciduous forests and loblolly pine plantations. USIBP-EDFB-Memo Rpt. 73, 24.
- EDWARDS, N.T., 1974: Comparison of belowground biomass of natural deciduous forests and loblolly pine plantations. In: MARSHALL, J.K. (ed.), The belowground ecosystem: A synthesis of plant associated processes. USIBP Symp. Ft. Collins, Co.
- HAYNES, R.E., 1971: Vegetational structure analysis of Dreher Island. Master's thesis, Univ. South Carolina, Columbia, S.C.
- HESS, D.W., 1953: Microclimate and relic stand of *Tsuga canadensis* in the lower piedmont of North Carolina. Master's thesis, Duke Univ., Durham, N.C.
- HORTON, J.H., 1957: A vascular flora of Rowan County, North Carolina. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- HOUCK, D.F., 1956: Flood plain flora of the Deep River Triassic Basin. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- JONES, S.I., 1971: Floristic survey and vegetational analysis of Yates Pond biological area in Wake County, North Carolina. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- JONES, T.H., 1973: Floristic survey and vegetational analysis of Raven Rock State Park, Harnett County, North Carolina. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- KATZ, B.A. and LIETH, H., 1974: Seasonality of decomposers. In: LIETH, H. (ed.), Phenology and seasonality modeling. Springer Verlag, N.Y. 163-184.
- KESSLER, P. 1956: A floristic study of the Triassic sediments, Deep River coal field, North Carolina. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- KIM, C.M., 1962: Forms of phosphorus and forest types in Duke Forest. Ecology 43, 535-538.
- KINERSON, R.S., Jr. and HIGGINBOTHAM, K.O., 1973: A quantitative description and simulation of branch wood production relationships in the forest canopy. In: IUFRO Biomass Studies, Univ. Maine. 67-76.
- and CHAPMAN, R.C., 1974: The dynamics of foliage distribution within a forest canopy. J. Appl. Ecol. 11, 347-353.
- KORNAS, J., 1956: Phytosociological observations on plant communities of the Duke Forest near Durham, North Carolina, U.S.A. Frag. Flor. Geobot. 11, 307-338.
- LOGUE, J.F., 1966: A survey of the vascular flora of Harbison State Forest. Master's thesis, Univ. South Carolina, Columbia, S.C.
- MCCURDY, Y.B., 1975: An ecosystematic analysis of the vegetation of Hanging Rock State Park, Danbury, North Carolina. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- MCNEELY, J.A., 1960: A floristic study of the Lake Norman area in Iredell and Catawba Counties. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- METZ, L.J., 1952: Weight and nitrogen and calcium of the annual litter fall of forests in the South Carolina piedmont. Proc. Soil Sci. Soc. Amer. 16, 38-41.

- MOORE, J.H., 1973: Preimpoundment studies. Falls project. A survey of the vascular plants. Dept. Envir. Sci. Eng., Univ. North Carolina, Publ. 325.
- 1973: Preimpoundment studies. Howards Mill project. A survey of the vascular plants. Dept. Envir. Sci. Eng., Univ. North Carolina, Publ. 326.
 - 1974: Terrestrial vegetation: Belews Lake. In: WEISS, C.M. (ed.), Environmental comparison Belews Lake - Year III and Lake Hyco, North Carolina. July 1972 - June 1973. Univ. North Carolina, Dept. Envir. Sci. Eng., Chapel Hill, N.C., Publ. 370, 6-31.
 - 1975: Aquatic vegetation. In: WEISS, C.M. (ed.), An assessment of the environmental stabilization of Belews Lake - Year IV and comparison with Lake Hyco, North Carolina, July 1973 - June 1974. Univ. North Carolina, Dept. Envir. Sci. Eng., Chapel Hill, N.C. Publ. 293-313.
 - and LEONARD, S.W., 1973: Preimpoundment studies. Randleman project. A survey of the vascular plants. Dept. Env. Sci. Eng., Univ. North Carolina, Publ. 323.
 - and QUALLS, R.G., 1975: The impact of intermittent flooding on forest vegetation. In: Supplemental studies, B. Everett Jordan Dam and Lake Project, Cape Fear River Basin, North Carolina. U.S. Army Corps. Engineers - Wilmington, N.C. 2, 397-469.
- MORGAN, J.T., 1962: A vascular flora of Morrow Mountain State Park, Stanly County, North Carolina. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- NEMETH, J.C., 1968: An analytical description of the hardwood vegetation and soils of Hill Demonstration Forest, Durham County, North Carolina. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- 1968: The hardwood vegetation and soils of Hill Demonstration Forest, Durham County, North Carolina. J. Elisha Mitchell Sci. Soc. 84, 482-491.
 - 1973: Forest biomass estimation: permanent plots and regression techniques. In: IUFRO Biomass Studies, Univ. Maine. 79-88.
- PULTORAK, R.W., 1969: Vascular flora of northern Wake County, North Carolina. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- OOSTING, H.J., 1942: An ecological analysis of the plant communities of Piedmont, North Carolina. Am. Midl. Nat. 28, 1-126.
- and HESS, D.W., 1956: Microclimate and relic stand of *Tsuga canadensis* in the lower piedmont of North Carolina. Ecology 37, 28-39.
- RADFORD, A.E., 1959: A relict plant community in South Carolina. J. Elisha Mitchell Sci. Soc. 75, 33-34.
- and MARTIN, D.L., 1975: Potential ecological natural Landmarks: Piedmont region, eastern United States. U.S. Nat. Park Serv. Rpt.
- RALSTON, C.W., 1973: Annual primary productivity in a loblolly pine plantation. In: IUFRO Biomass Studies, Univ. Maine. 105-117.
- and PRINCE, A.B., 1965: Accumulation of dry matter and nutrients by pine and hardwood forests in the lower piedmont of North Carolina. In: YOUNGBERG, C.T. (ed.), Forest-soil relationships in North America. Oregon St. Univ. Press, Corvallis, Ore.
- ROBINSON, H., 1959: Lichen succession in abandoned fields in the piedmont of North Carolina, Bryologist 62, 254-259.

- RYBURN, W.O., 1940: A study of the forests in the Richlands Creek area. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- SAWYER, G.P., 1968: The vascular flora of William B. Umstead Park, Wake County, North Carolina. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- SECHREST, C.G. and COOPER, A.W., 1970: An analysis of the vegetation and soils of upland hardwood stands in the piedmont and coastal plain of Moore County, North Carolina. *Castanea* 35, 26-57.
- SMITH, E.R., 1959: A preliminary study of vegetation on North Carolina piedmont and mountain power transmission line rights-of-way. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- SMITH, E.L., 1977: Floristic survey and vegetational analysis of the South Mountains State Park, Burke County, North Carolina. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- STEWART, S.E., 1958: Early spring and summer vascular flora of Lee County, North Carolina. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- TAGGART, J.B., 1973: Floristic survey and vegetational analysis of Stone Mountain State Park in North Carolina. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- WARE, S.A., 1970: Southern mixed hardwood forest in the Virginia coastal plain. *Ecology* 51, 921-924.
- WELLS, E.F., 1970: A vascular flora of the Uwharrie wildlife management area, Montgomery County, North Carolina. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- 1974: A vascular flora of the Uwharrie wildlife management area, Montgomery County, North Carolina, *Castanea* 39, 39-57.
- WHIGHAM, D.F., 1971: An ecological study of *Uvularia perfoliata* in the Blackwood Division of the Duke Forest, North Carolina. Ph. D. thesis, Univ. North Carolina, Chapel Hill, N.C.
- 1974: An ecological life history of *Uvularia perfoliata* L. *Am. Midl. Natur.* 91, 343-359.
- WILLIAMS, R.M., 1942: A phytosociological survey of the vegetation on Pilot Mountain, North Carolina. Master's thesis, Duke Univ., Durham, N.C.
- WILLIAMS, R.H. and OOSTING, H.J., 1944: The vegetation of Pilot Mountain, North Carolina. Master's thesis, Duke Univ., Durham, N.C.
- 1944: The vegetation of Pilot Mountain, North Carolina: A community analysis. *Bull. Torrey Bot. Club* 71, 23-45.

B. SUCCESSION STUDIES

- BARRETT, L.E. and DOWNS, A.A., 1943: Hardwood invasion of pine forests of the piedmont plateau. *J. Agri. Res.* 67, 111-127.
- BILLINGS, W.D., 1936: The structure and development of old field shortleaf pine stands and certain associated physical properties of the soil. Ph. D. thesis, Duke Univ., Durham, N.C.
- 1938: The structure and development of old field shortleaf pine stands and certain associated physical properties of the soil. *Ecol. Monogr.* 8, 437-499.
- BLISS, L.C. and LINN, R.M., 1955: Bryophyte communities associated with old field succession in the North Carolina Piedmont. *Bryologist* 58, 120-131.
- * see added titles

- BORMANN, F.H., 1952: Factors determining the role of loblolly pine and sweetgum in early old-field succession. Ph. D. thesis, Duke Univ., Durham, N.C.
- 1953: Factors determining the role of loblolly pine and sweetgum in early old-field succession in the piedmont of North Carolina. *Ecol. Monogr.* 23, 339-358.
- BOURDEAU, P.F.J., 1954: Oak seedling ecology determining segregation of species in piedmont oak-hickory forests. Ph. D. thesis, Duke Univ., Durham, N.C.
- 1954: Oak seedling ecology determining segregation of species in piedmont oak-hickory forests. *Ecol. Monogr.* 24, 297-320.
- BOYCE, S.G., 1951: Plant succession in thinned loblolly pine stands of a piedmont county. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- BRENDER, E.V., 1959: Influence of topography on the future composition of lower piedmont forests. *J. For.* 57, 33-34.
- CHRISTENSEN, N.L., 1977: Change in structure, pattern and diversity associated with climax forest maturation in piedmont, North Carolina. *Am. Midl. Natur.* 97, 176-188.
- COILE, T.S., 1933: Soil reaction and forest types in the Duke Forest. *Ecology* 14, 323-333.
- 1940: Soil changes associated with loblolly pine succession on abandoned agricultural land of the piedmont plateau. *Duke Univ. Sch. For. Bull.* 5.
- COX, D.K., 1950: Factors affecting plant succession on stabilization of sheet eroded areas in the piedmont, South Carolina. Master's thesis, Duke Univ., Durham, N.C.
- CRAFTON, M., 1932: The old field prisere: an ecological study. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- and WELLS, B.W., 1934: The old field prisere: an ecological study. *J. Elisha Mitchell Sci. Soc.* 49, 225-246.
- DIFTLER, N., 1947: The invasion of hardwoods in pine stands as related to soil texture on the upland soil types of the lower piedmont plateau region of Durham County and its adjacent area. Master's thesis, Duke Univ., Durham, N.C.
- DUNCAN, W.H., 1941: A study of root development in three soil types in the Duke Forest. *Ecol. Monogr.* 11, 141-164.
- FERRELL, W.F., 1953: Effect of environmental conditions on survival and growth of forest tree seedlings under field conditions in the piedmont region of North Carolina. *Ecology* 34, 667-688.
- HOLMAN, T., 1949: The invasion of hardwoods in pine stands as related to soil characteristics of the lower piedmont plateau of North Carolina. Master's thesis, Duke Univ., Durham, N.C.
- HOSNER, J.F. and GRANEY, D.L., 1970: The relative growth of three forest tree species on soils associated with different successional stages in Virginia. *Am. Midl. Natur.* 84, 418-427.
- HUMPHREYS, M.E., 1938: Buried viable seeds in a successional series of old field and forest soils. Master's thesis, Duke Univ., Durham, N.C.
- JOHNSON, W.C., 1977: A mathematical model of forest succession and land use for the North Carolina piedmont. *Bull. Torrey Bot. Club* 104, 334-346.
- KEEVER, N.C., 1949: Causes of succession on old fields of the piedmont, North Carolina. *Ecol. Monogr.* 20, 229-250.

- KEEVER, C., 1955: *Heterotheca latifolia*, a new and aggressive exotic dominant in the piedmont old-field succession. *Ecology* 36, 732-739.
- KORSTIAN, C.F. and COILE, T.S., 1938: Plant competition in forest stands. Duke Univ. Sch. For. Bull. 3.
- and MAUGHAN, W., 1935: The Duke Forest, a demonstration and research laboratory. Duke Univ. For. Bull. 1.
- KOZLOWSKI, T.T., 1947: Light and water in growth and competition of piedmont forest tree species. Ph. D. thesis, Duke Univ., Durham, N.C.
- 1949: Light and water in relation to growth and competition of piedmont forest tree species. *Ecol. Monogr.* 19, 208-231.
- KRAMER, P.J., OOSTING, H.J. and KORSTIAN, C.F., 1952: Survival of pine and hardwood seedlings in forest and open. *Ecology* 33, 427-430.
- McQUILKIN, W.E., 1940: The natural establishment of pine in abandoned fields in the piedmont plateau region. *Ecology* 21, 135-147.
- OOSTING, H.J., 1944: The comparative effect of surface and crown fire on the composition of a loblolly pine community. *Ecology* 25, 61-69.
- and HUMPHREYS, M.E., 1940: Buried viable seeds in a successional series of old field and forest soils. *Bull. Torrey Bot. Club* 67, 253-273.
- and KRAMER, P.J., 1946: Water and light in relation to pine reproduction. *Ecology* 27, 47-53.
- and LIVINGSTON, R.B., 1964: A resurvey of a loblolly pine community twenty-nine years after ground and crown fire. *Bull. Torrey Bot. Club* 91, 387-395.
- SHONTZ, J.P., 1967: Interrelationships between *Haplopappus divaricatus* and *Conyza canadensis* and factors affecting their distribution in old fields. Ph. D. thesis, Duke Univ., Durham, N.C.
- and OOSTING, H.J., 1970: Factors affecting interaction and distribution of *Haplopappus divaricatus* and *Conyza canadensis* in North Carolina old fields. *Ecology* 51, 780-793.
- SWITZER, G.L. and NELSON, L.E., 1972: Nutrient accumulation and cycling in loblolly pine (*Pinus taeda* L.) plantation ecosystems: The first twenty years. *Proc. Soil Sci. Soc. Am.* 36, 143-147.
- WELLS, C., WHIGHAM, D. and LIETH, H., 1972: Investigation of mineral nutrient cycling in upland piedmont forest. *J. Elisha Mitchell Sci. Soc.* 88, 66-78.

IV. Coastal Plain

A. GENERAL

- ALMEIDA, J.L., Jr., 1969: A floristic and edaphic comparison of burned and unburned pineland plots in Georgetown, South Carolina. Master's thesis, Univ. South Carolina, Columbia, S.C.
- ASHE, W.W., 1894: The forests, forest lands and forest products of eastern North Carolina, Raleigh.
- BARRY, J.M., 1968: A survey of the native vascular plants of the Baruch Plantation, Georgetown, South Carolina. Master's thesis, Univ. South Carolina, Columbia, S.C.

- and BATSON, W.T., 1969: The vegetation of the Baruch Plantation, Georgetown, South Carolina, in relation to soil types. *Castanea* 34, 71-79.
- BATSON, W.T., HOY, W.E., KELLEY, W.R. and PENNEY, J.T., 1958: The plants of the Harvey tract - Berkeley County. Univ. South Carolina Publ. III. Biol. 2, 168-174.
- and KELLEY, W.R., 1955: Distributional studies of the flora. I. The sand hills vegetation of Aiken and Barnwell Counties. Univ. South Carolina Publ. III. Biol. 1, 249-255.
- and TULLOCH, R.N., 1955: Succession in fields of the Savannah River Project Area. 2. The floristic composition of lowland fields in the third year of abandonment. Univ. South Carolina Publ. III. Biol. 1, 220-226.
- BLAIR, A.E., 1967: Vascular flora of Beaufort County, North Carolina. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- BOYD, C.E., 1970: Production, mineral accumulation and pigment concentrations in *Typha latifolia* and *Scirpus americanus*. *Ecology* 51, 285-290.
- 1971: The dynamics of dry matter and chemical substances of a *Juncus effusus* population. *Amer. Midl. Natur.* 86, 28-45.
- 1971: Further Studies on productivity, nutrient and pigment relationships in *Typha latifolia* populations. *Bull. Torrey Bot. Club* 98, 144-150.
- and VICKERS, D.H., 1971: Relationships between production, nutrient accumulations and chlorophyll synthesis in an *Eleocharis quadrangulata* population. *Can. J. Bot.* 49, 883-888.
- BOZEMAN, J.R., 1964: Floristic and edaphic studies of the Alatomaha River sand ridge, Georgia. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- 1971: A sociologic and geographic study of the sand ridge vegetation of the coastal plain of Georgia. Ph. D. thesis, Univ. North Carolina, Chapel Hill, N.C.
- BRINSON, M.M. and DAVIS, G.J., 1976: Primary productivity and mineral cycling in aquatic macrophyte communities of the Chowan River, North Carolina. *Water Resources Inst., Univ. North Carolina, Rpt.* 120.
- BRITT, R.F., 1960: The vascular flora of Robeson County, North Carolina. Master's thesis, Univ. of North Carolina, Chapel Hill, N.C.
- BRUTON, V.C., 1968: Floristic study and vegetational analysis of Cliffs of the Neuse State Park in North Carolina. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- BURK, C.J., 1959: A floristic study of a sandhill area on the North Carolina coastal plain. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- 1959: A floristic study of a sandhill area on the North Carolina coastal plain. *J. Elisha Mitchell Sci. Soc.* 75, 135-138.
- CARTER, L.J., 1975: Agriculture: a new frontier in coastal North Carolina. *Science* 189, 271-275.
- COKER, W.C., 1905: Observations on the flora of the Isle of Palms, Charleston, S.C. *Torrey* 6, 135-145.
- 1912: The plant life of Hartsville, S.C. State Co., Columbia, S.C.
- DORAN, R.H., 1968: Survey of the vascular flora and ecological study of a proposed arboreum site. Master's thesis, Univ. South Carolina, Columbia, S.C.

- DUKE, J.A., 1959: The psammophytes of the Carolina fall-line sandhills. Ph. D. thesis, Univ. North Carolina, Chapel Hill, N.C.
- EVANS, P.T., 1977: The vegetation of Marion County, South Carolina. Master's thesis, Univ. South Carolina, Columbia, S.C.
- GABRIELSON, F.C., 1968: The effects of shade, litter and root competition on an old field vegetation in Aiken County, South Carolina. Ph. D. thesis, Univ. Georgia, Athens, Georgia.
- GARTEN, C.T., 1978: Multivariate perspectives on the ecology of plant mineral element composition. *Amer. Natur.* 112, 533-544.
- GENTRY, J.B. and SHARITZ, R.R., 1977: Analysis of elemental concentrations in vegetation bordering a southeastern United States coastal plain stream. *Ecology* 58, 979-992.
- GLASSON, M.E., 1933: A survey of the vegetation of Perquimans County, North Carolina, with special reference to the spring flora. Master's thesis, Duke Univ., Durham, N.C.
- GOLLEY, F.B., 1965: Structure and function of an old-field broomsedge community. *Ecol. Monogr.* 35, 113-137.
- and GENTRY, J.B., 1966: A comparison of variety and standing crop of vegetation on one-year and a twelve-year abandoned field. *Oikos* 15, 185-199.
- GUPTON, O.W., 1960: A vascular flora of the North Carolina sandhills wildlife management area. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- HARPER, R.M., 1907: Centers of distribution of coastal plain plants. *Torrey* 7, 42-45.
- 1907: A midsummer journey through the coastal plain of the Carolinas and Virginia. *Bull. Torrey Bot. Club* 34, 351-377.
- 1910: A quantitative study of the more conspicuous vegetation of certain natural subdivisions of the coastal plain, as observed in traveling from Georgia to New York in July. *Bull. Torrey Bot. Club* 37, 405-428.
- HARTSHORN, G.S., 1968: Vegetation patterns in southern Beaufort County, North Carolina. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- HOFMAN, J.G., 1949: The effect of certain soil characteristics on the height growth and site index of pond pine in the coastal plain of the Carolinas, Georgia and Florida. D.F. thesis, Duke Univ., Durham, N.C.
- HOY, W.E., 1953: An ecological study of the land plants and cold-blooded vertebrates of the Savannah River Project Area: Introduction - the project site. Univ. South Carolina, Publ. III. Biol. 1, 45-60.
- 1957: Distributional studies of the flora. 2. The Gawtt tract on Lower Tree Runs. Univ. South Carolina, Publ. III. Biol. 2, 63-64.
- and PORTER, C.L., 1958: Distributional studies of the flora. 5. Pine-lands flora. Univ. South Carolina, Publ. III, Biol. 2, 142-146.
- HUGHES, R.H., 1957: Response of cane to burning in the North Carolina coastal plain. *North Carolina Agri. Exp. Stat. Bull.* 402.
- 1966: Fire ecology of canebrakes. *Proc. Tall Timbers Fire Ecol. Conf.* 5, 149-158.
- and DILLARD, E.V., 1960: Vegetation and cattle response under two systems of grazing cane range in North Carolina. *North Carolina Exp. Stat. Bull.* 412.

- HUNT, K.W., 1943: Floating mats on a southeastern coastal plain reservoir. *Bull. Torrey Bot. Club* 70, 481-488.
- 1947: The Charleston woody flora. *Amer. Midl. Nat.* 37, 670-756.
- JOHNSON, D.S., 1930: Notes on the flora of the banks and sounds at Beaufort, North Carolina, *Bot. Gaz.* 30, 405-410.
- KELLEY, W.R. and BATSON, W.T., 1956: Succession in the fields of the Savannah River Project area. 3. A summary of the species performance of plants in upland fields during the third, fourth and fifth years of abandonment. *Univ. South Carolina, Publ. III. Biol.* 2, 22-25.
- LAING, H., 1957: A spring and fall flora of Harnett County, North Carolina. * Master's thesis, Univ. North Carolina, N.C.
- LEWIS, C.E. and HARSHBARGER, T.J., 1976: Shrub and herbaceous vegetation after twenty years of prescribed burning in the South Carolina coastal plain. *J. Range Mgt.* 29, 13-18.
- and HART, R.H., 1972: Some herbage responses to fire on pine-wire-grass range. *J. Range Mgt.* 25, 209-213.
- LOTTI, T., KLAWITTER, R.A. and LeGRANDE, W.P., 1960: Prescribed burning for understory control in loblolly pine stands of the coastal plain. *U.S.D.A. For. Serv., Southeast For. Exp. Stat. Pap.* 116.
- ODUM, E.P., 1960: Organic production and turn over in old field successions. *Ecology* 41, 34-49.
- PINDER, J.E., 1977: Relationships between structure and function in an old field plant community. Ph. D. thesis, Univ. Georgia, Athens, Ga.
- PORCHER, R.D., Jr., 1974: A study of plant communities on Belmont Plantation, Hampton County, South Carolina. Ph. D. thesis, Univ. South Carolina, Columbia, S.C.
- PORTER, C.L., 1960: A study of the vascular plants of Barnwell state park. Master's thesis, Univ. South Carolina, Columbia, S.C.
- WELBOURNE, F.F., YIH, R.Y.M. and HOY, W.E., 1958: The flora of Poinsett state park. *Univ. South Carolina, Publ. III. Biol.* 3, 149-157.
- and YIH, R.Y.M., 1959: Comparison of the flora of four state parks within the upper coastal plain. *Univ. South Carolina, Publ. III. Biol.* 2, 119-132.
- SHARP, D.D., 1974: The phytosociology of the weed communities of Scotland County, North Carolina. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- SMITH, B.E., 1942: A study of the dicotyledonous flora of Darlington County, South Carolina. Ph. D. thesis, Univ. North Carolina, Chapel Hill, N.C.
- STALTER, R., 1971: The summer and fall flora of Huntington Beach State Park, Georgetown County, South Carolina. *Castanea* 36, 167-174.
- 1975: The flora of the Isle of Palms, South Carolina. *Castanea* 40, 4-13.
- TULLOCH, R.N. and BATSON, W.T., 1954: Succession in fields of the Savannah River Project area. 1. The floristic composition of upland fields in the third year of abandonment. *Univ. South Carolina, Pub. III, Biol.* 1, 173-180.
- U.S. FOREST SERVICE, 1971: Prescribed burning symposium, *Proc. U.S.F.S., Southeastern For. Exp. Stat., Asheville, N.C.*
- VOGL, R.J., 1972: Effects of fire on southeastern grasslands. *Proc. Tall Timber Fire Ecol. Conf.* 12, 175-198.

* see added titles

- WEAVER, T.W., 1969: Gradients in the Carolina fall-line sandhills: environment, vegetation and comparative ecology of the oaks. Ph. D. thesis, Duke Univ., Durham, N.C.
- WELLS, B.W., 1928: Plant communities of the coastal plain of North Carolina and their successional relations. *Ecology* 9, 230-242.
- 1942: Ecological problems of the southeastern United States coastal plain. *Bot. Rev.* 8, 533-561.
 - 1944: Origin and development of the Lower Cape Fear Peninsula. *J. Elisha Mitchell Sci. Soc.* 60, 129-134.
 - and SHUNK, I.V., 1931: The vegetation and habitat factors of the coarser sands of the North Carolina coastal plain: an ecological study. *Ecol. Monogr.* 1, 465-520.
- WESTBROOKS, R.G., 1978: A survey of the vascular flora that occur in sidewalk crevices in Orangeburg, South Carolina. Master's thesis, Univ. South Carolina, Columbia, S.C.
- WILLIAMS, J.E., 1963: A comparison of the harvest and infra-red gas analysis methods of measuring primary net productivity under natural conditions. Master's thesis, Univ. Georgia, Athens, Georgia.
- 1969: Photosynthesis in seven old field plants and the contributions of each to total community biomass. *Bull. Georgia Acad. Sci.* 27, 1-12.
- WOODS, F.W., 1957: Factors limiting root penetrations in deep sands of the southeastern coastal plain. *Ecology* 38, 357-359.
- ZAHNER, R., 1951: The influence of certain properties of organic soils on the height growth of pond pines in North Carolina. Master's thesis, Duke Univ., Durham, N.C.
- ZUCCHINO, L., 1976: A phytosociological study of selected wetland habitats in the lower coastal plain of North Carolina. Bachelor's thesis, Univ. North Carolina, Chapel Hill, N.C.

B. SWAMPS AND ALLUVIAL FORESTS

- ACKERMAN, A., 1932: The white cedar of the Dismal Swamp. *Va. For. Publ.* 30.
- APPLEQUIST, M.B., 1959: A study of soil and site factors affecting the growth and development of swamp Blackgum and tupelogram stands in southeastern Georgia. D.F. thesis, Duke Univ., Durham, N.C.
- BALDWIN, J.D., 1977: The effects of soil moisture regime on bottomland hardwoods in channelized and non-channelized stream basins in eastern North Carolina. Master's thesis, North Carolina St. Univ., Raleigh.
- BRATAMIHARDJA, M.M., 1966: A study of hardwood regeneration in the Roanoke River bottomlands. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- BRINSON, M.M., 1977: Decomposition and nutrient exchange of litter in an alluvial swamp. *Ecology* 58, 601-609.
- BUELL, M.F. and CAIN, R.L., 1943: The successional role of southern white cedar, *Chamaecyparis thyoides*, in southeastern North Carolina. *Ecology* 24, 85-93.
- BUREAU OF SPORT FISHERIES AND WILDLIFE, 1974: Dismal Swamp National Wildlife Refuge. Developmental history and ecology of the Dismal Swamp with recommendation for public ownership and management. P.L. 92-478.

- CHICKERING, J.W., 1873: The flora of the Dismal Swamp. *Amer. Natur.* 7, 521-524.
- COCKE, E.C., 1928: The history of the vegetation of the Dismal Swamp determined by fossil pollen analysis. Master's thesis, Univ. Virginia, Charlottesville, Va.
- CREWZ, D.W., 1976: A floristic analysis of the Congaree River floodplain, South Carolina: succession and regeneration. Master's thesis, Univ. South Carolina, Columbia, S.C.
- DABEL, C.V. and DAY, F.P., 1977: Structural comparison of four plant communities in the Great Dismal Swamp, Virginia. *Bull. Torrey Bot. Club* 104, 352-360.
- DEAN, G.W., 1969: Forests and forestry in the Dismal Swamp. *Va.J.Sci.*, n.s. 20, 166-173.
- DENNIS, W.H., 1973: A synecological study of the Santee Swamp. Sumter County, South Carolina. Master's thesis, Univ. South Carolina, Columbia, S.C.
- and BATSON, W.T., 1974: The floating log and stump communities in the Santee Swamp of South Carolina. *Castanea* 39, 166-170.
- EMMONS, E., 1860: The swamplands of North Carolina. N.C. Geol. Survey. Part II. Agriculture.
- FLINCHUM, D.M., 1977: Lesser vegetation as indicators of varying moisture regimes in bottomland and swamp forests of northeastern North Carolina. Ph. D. thesis, North Carolina St. Univ., Raleigh, N.C.
- GADDY, L.L., 1977: Notes on the flora of the Congaree River floodplain, Richland County, South Carolina. *Castanea*, 42, 103-106.
- KOHLSAAK, T.S., LAUVENT, E.A. and STANSELL, K.B., 1975: A vegetation analysis of preserve alternatives involving the Beidler Tract of the Congaree Swamp. Columbia, South Carolina, S.C. Wildlife and Marine Resources Dept.
- HARMS, W.R., 1973: Some effects of soil type and water regime on growth of tupelo seedlings. *Ecology* 54, 188-193.
- HOY, W.E., 1955: The Congaree River swamp. Univ. South Carolina. Publ. III. *Biol.* 1, 292-296; 2, 78-82.
- KEARNEY, T.H., 1901: Report on a botanical survey of the Dismal Swamp region. *Contr. U.S. Nat. Herb.* 5, 321-585.
- KIRK, P.W., Jr. (ed.), 1978: The Great Dismal Swamp. Univ. Press Virginia, Charlottesville, Va. (in press).
- KLAWITTER, R.A., 1962: Sweetgum, swamp tupelo and water tupelo sites in a South Carolina bottomland forest. D.F. thesis, Duke Univ., Durham, N.C.
- KORSTIAN, C.F., 1924: Natural regeneration of southern white cedar. *Ecology* 5, 188-191.
- LEVY, G.F. and WALKER, S.W., 1978: Forest dynamics in the Dismal Swamp of Virginia. In: KIRK, P.W., Jr. (ed.), *The Great Dismal Swamp*. Univ. Press Virginia, Charlottesville, Va. (in press).
- MARTIN, C.E., CHRISTY, E.J., and McLEOD, K.W., 1977: Changes in the vegetation of a South Carolina swamp following cessation of thermal pollution. *J. Elisha Mitchell Sci. Soc.* 93, 173-176.
- MUSSELLMAN, L.J., NICKRENT, D.L. and LEVY, G.F., 1977: A contribution towards a vascular flora of the Great Dismal Swamp. *Rhodora* 79, 240-268.
- PARDUE, G.B., HUIISH, M.T. and PERRY, H.R., 1975: Ecological studies of two swamp watersheds in northeastern North Carolina: A prechannelization study. Water Research Institute. Report 105. North Carolina St. Univ., Raleigh, N.C.

- PENFOUND, W.T., 1972: Southern swamps and marshes. *Bot. Rev.* 18, 413-446.
- SHARITZ, R.R., GIBBONS, J.W. and GAUSE, S.C., 1974: Impact of production-reactor effluents on vegetation in a southeastern swamp forest. In: GIBBONS, J.W. and SHARITZ, R.R. (eds.), *Thermal Ecology*. U.S.A.E.C. Symposium Series (CONF-730505) 264-276.
- IRWIN, J.E. and CHRISTY, E.J., 1977: Vegetation of swamps receiving reactor effluent. *Oikos* 25, 7-13.
- SWAILS, L.F., ANDERSON, W.D. and BATSON, W.T., 1957: A mature pine stand in the Congaree bottomland. *Univ. South Carolina. Publ. III. Biol.* 2, 82-89.
- WELBOURNE, F.F. and HOY, W.E., 1957: Distributional studies of the flora. 4. The flora of the bottomlands of the Savannah River Swamp. *Univ. South Carolina. Publ. III. Biol.* 2, 72-77.
- WALKER, S.W., 1972: Plant succession in the Great Dismal Swamp of Virginia. Master's thesis, Old Dominion Univ., Norfolk, Va.
- WELBOURNE, F.F., 1958: The effects of flooding upon the vegetation along Steel Creek. Master's thesis, Univ. South Carolina, Columbia, S.C.
- 1958: Ecological disturbances and the effects of flooding upon the vegetation along Steel Creek. *Univ. South Carolina. Publ. III. Biol.* 2, 158-168.

C. SAVANNAHS, POCOSINS AND BAYS

- BROWN, W., 1911: Plant life of Ellis, Great, Little and Long Lakes in North Carolina. *Contr. U.S. National Herbarium* 13, 323-341.
- BUELL, M.F., 1939: Peat formation in Carolina bays. *Bull. Torrey Bot. Club* 66, 483-487.
- 1946: The age of Jerome bog, "A Carolina bay". *Science* 103, 14-15.
- 1946: Jerome bog, a peat-filled "Carolina bay". *Bull. Torrey Bot. Club* 73, 24-33.
- CAUGHEY, M.G., 1943: A physiological and ecological study of certain pocosin plants. Ph. D. thesis, Duke Univ., Durham, N.C.
- 1945: Water relations of pocosin or bog shrubs. *Plant Physiol.* 20, 671-689.
- CHRISTENSEN, N.L., 1977: The role of carnivory in *Sarracenia flava* L. with regard to specific nutrient deficiencies. *J. Elisha Mitchell Sci. Soc.* 92, 144-147.
- 1977: Fire and soil-plant nutrient relations in a pine-wiregrass savannah on the coastal plain of North Carolina. *Oecologia* 31, 27-44.
- 1978: Shrublands of the southeastern United States. In: SPECHT, R.L. (ed.), *Heathlands and related shrublands*. Elsevier, Amsterdam.
- CRAPO, N.L. and COLEMAN, D.C., 1972: Root distribution and respiration in a Carolina old field. *Oikos* 23, 137-139.
- DUCHNOWSKI-STOKES, A.P. and WELLS, B.W., 1929: The vegetation, stratigraphy and age of the "open land" peat area in Carteret County, North Carolina. *Wash. Acad. Sci. J.* 19, 1-11.
- FREY, D.G., 1950: Carolina bays in relation to the North Carolina coastal plain. *J. Elisha Mitchell Sci. Soc.* 66, 44-52.
- 1954: Evidence for the recent enlargement of the "bay" lakes of North Carolina. *Ecology* 35, 78-88.

- 1955: Stages in the ontogeny of the Carolina bays. Proc. Int. Assoc. Theor. App. Limn. 12, 660-668.
- GRAHAM, B.F., Jr. and REBUCK, A.L., 1958: The effect of drainage on the establishment and growth of pond pine (*Pinus serotina*). Ecology 39, 33-36.
- JOHNSON, D.W., 1942: The origin of the Carolina Bays. Columbia Univ. Press, New York.
- KAUFMAN, C.M., WHITE, J.B. and MONROE, R.J., 1954: Growth of pond pine in a pocosin area. J. For. 52, 275-278.
- KELLY, W.R. and BATSON, W.T., 1955: Conspicuous vegetational zonation in a "Carolina Bay". Univ. South Carolina. Publ. III, Biol. 1, 244-248.
- KOLOGISKI, R.L., 1977: Phytosociology of the Green Swamp, North Carolina. Ph. D. thesis, North Carolina St. Univ., Raleigh, N.C.
- 1977: The phytosociology of the Green Swamp, North Carolina. N.C. Agri. Exp. Stat. Techn. Bull. 250.
- KORMANDY, E.J., 1968: Weight loss of cellulose and aquatic macrophytes in a Carolina bay. Limnol. Oceanogr. 13, 522-526.
- KORSTIAN, C.F. and BRUSH, W.D., 1931: Southern white cedar. U.S.D.A. Techn. Bull. 251.
- PITTMAN, A.B., Jr., 1978: Survey of the vascular flora of Shealy's Ponds, a southern cedar bog. Master's thesis, Univ. South Carolina, Columbia, S.C.
- PLUMMER, G.L., 1963: Soils of the pitcher plant habitats in the Georgia coastal plain. Ecology 44, 727-734.
- PORCHER, R.D., Jr., 1966: A floristic study of the vascular plants in nine selected Carolina Bays in Berkeley County, South Carolina. Master's thesis, Univ. South Carolina, Columbia, S.C.
- ROBERTS, P.R. and OOSTING, H.N., 1958: Responses of venus fly trap (*Dionaea muscipula*) and factors involved in its endemism. Ecol. Monogr. 28, 193-218.
- SHEPHERD, W.O., DILLARD, E.U. and LUCAS, H.L., 1951: Grazing and fire influences in pond pine forests. N.C. Agri. Exp. Stat. Techn. Bull. 97.
- SNYDER, J.R., 1978: Analysis of vegetation in the Croatan National Forest, North Carolina. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- SWAILS, L.F., 1957: A study of a mature stand of atlantic white-cedar in South Carolina. Master's thesis, Univ. South Carolina, Columbia, S.C.
- THOM, B.G., 1970: Carolina Bays in Horry and Marion Counties, South Carolina. Geol. Soc. Amer. Bull. 81, 783-813.
- WELLS, B.W., 1946: Vegetation of Holly Shelter wildlife management area. N.C. Dept. Cons. Dev., Div. Game Inland Fish., Bull. 2.
- and BOYCE, S.G., 1953: Carolina bays: additional data on their origin, age and history. J. Elisha Mitchell Sci. 69, 119-141.
- 1954: Carolina bay lakes: the bog margin problem. Ecology 35, 584.
- and SHUNK, I.V., 1928: A southern upland grass sedge bog: an ecological study. N.C. Agri. Exp. Stat. Techn. Bull. 32.
- WILSON, E.J., 1978: A floristic study of the "Savannahs" on pine plantations in the Croatan National Forest. Master's thesis, Univ. North Carolina Chapel Hill, N.C.
- WOODWELL, G.M., 1956: Phytosociology of coastal plain wetlands of the Carolinas. Master's thesis, Duke Univ., Durham, N.C.
- 1958: Factors controlling growth of pond pine seedlings in organic soils of the Carolinas. Ecol. Monogr. 28, 219-236.

D. UPLAND FORESTS

- BATSON, W.T., KELLEY, W.R., SWAILS, L.F. and WELBOURNE, F.F., 1957: Distributional studies of the flora. 3. The vegetation of a mature beech-magnolia forest within the Gantt tract. Univ. South Carolina. Publ. III. Biol. 2, 65-71.
- BOURDEAU, P.F. and OOSTING, H.J., 1959: The maritime live oak forest in North Carolina. Ecology 40, 148-152.
- CHAPMAN, H.H., 1932: Is longleaf type a climax? Ecology 13, 328-334.
- DIAL, S.C., 1969: Some ecological and morphological observations of *Pinus glabra* Walter. Ph. D. thesis, Univ. South Carolina, Columbia, S.C.
- BATSON, W.T. and STALTER, R., 1976: Some ecological and morphological observations of *Pinus glabra* Walter. Castanea 41, 361-377.
- FERRILL, M.D. and WOODS, F.W., 1966: Root excursion in a longleaf pine plantation. Ecology 47, 97-102.
- FITZPATRICK, J.W., CLONTS, J.R. and BATSON, W.T., 1977: The vascular flora of two north-facing bluffs in Calhoun County, South Carolina. Castanea 42, 50-56.
- HALLS, L.K., SOUTHWELL, B.L. and KNOX, F.E., 1952: Burning and grazing in coastal plain forests. Georgia Agr. Exp. Stat. Bull. 51.
- HARMS, W.R. and LANGDON, O.G., 1976: Development of loblolly pine in dense stands. Forest Sci. 22, 331-337.
- HARTSHORN, G.S., 1972: Vegetation and soil relationships in southern Beaufort County, North Carolina. J. Elisha Mitchell Sci. Soc. 88, 226-238.
- HEYWARD, F., 1939: The relation of fire to stand composition of longleaf pine forests. Ecology 20, 287-304.
- LEWIS, W.M., 1974: Effects on nutrient movement in a South Carolina pine forest. Ecology 55, 1120-1127.
- HOUGH, W.A., WOODS, W.F. and McCORMACK, M.L., 1965: Root extension of individual trees in surface soils of a natural longleaf pine - turkey oak stand. For. Sci. 11, 223-242.
- LOTTI, T., KLAWITTER, R.A. and LEGRANDE, W.P., 1960: Prescribed burning for understory control in loblolly pine stands of the coastal plain. Southeastern For. Exp. Stat., Stat. Pap. 116.
- NEMETH, J.C., 1971: Dry-matter production in young loblolly (*Pinus taeda* L.) and slash pine (*Pinus elliottii* Engelm.) plantations. Ph. D. thesis, North Carolina St. Univ., Raleigh, N.C.
- 1973: Dry matter production in young loblolly (*Pinus taeda* L.) and slash pine (*Pinus elliottii* Engelm.) plantations. Ecol. Monogr. 43, 21-41.
- NESOM, G.L. and TREIBER, M., 1977: Beech - mixed hardwood communities: A topo-edaphic climax on the North Carolina coastal plain. Castanea 42, 119-140.
- QUARTERMAN, E. and KEEVER, C., 1962: Southern mixed hardwood forest: climax in the southeastern coastal plain, U.S.A. Ecol. Monogr. 32, 167-185.
- SEARS, M.N., 1966: A floristic study of the limestone along Island Creek in Jones County, North Carolina. Master's thesis, Univ. North Carolina, Chapel Hill, N.C.
- SPRING, P.E., BREWER, M.L., BROWN, J.R. and FANNING, M.E., 1974: Population ecology of loblolly pine, *Pinus taeda*, in an old field community. Oikos, 25, 1-6.

- WARE, S.A., 1970: Southern mixed hardwood forest in the Virginia coastal plain. *Ecology* 51, 921-924.
- WIEGERT, R.G. and MONK, C.D., 1972: Litter production and energy accumulation in three plantations of longleaf pine (*Pinus palustris* Mill.). *Ecology* 53, 949-953.

E. BEACH AND DUNE COMMUNITIES

- AU, S., 1969: Vegetation and ecological processes on Shackleford Bank, North Carolina. Ph. D. thesis, Duke Univ., Durham, N.C.
- 1974: Vegetation and ecological processes on Shackleford Bank, North Carolina. U.S. Nat. Park Serv., Sci. Monogr. 6.
- BOURDEAU, P.F. and OOSTING, H.J., 1959: The maritime live oak forest in North Carolina. *Ecology* 40, 148-152.
- BOYCE, S.G., 1953: The salt spray community. Ph. D. thesis, North Carolina St. Univ., Raleigh, N.C.
- 1954: The salt spray community. *Ecol. Monogr.* 24, 29-67.
- BROWN, C.A., 1959: Vegetation of the outer banks of North Carolina. Baton Rouge: Louisiana State Univ. Press.
- BURK, C.J., 1961: A botanical reconnaissance of Portsmouth Island, North Carolina. *J. Elisha Mitchell Sci. Soc.* 77, 72-73.
- 1961: A floristic study of the outer banks of North Carolina. Ph. D. thesis, Univ. North Carolina, Chapel Hill, N.C.
- 1962: The North Carolina outer banks: a floristic interpretation. *J. Elisha Mitchell Sci. Soc.* 78, 21-28.
- 1978: A floristic comparison of lower Cape Cod, Massachusetts and the North Carolina outer banks. *Rhodera* 70, 215-227.
- COOPER, A.W., 1975: Dune vegetation of the South Atlantic coast, U.S.A. In: GEHY, J. (ed.), *La végétation des dunes maritimes. Colloques Phytosoc. I. Dunes.* J. Cramer, Vaduz. 53-59.
- DOLAN, R., GODFREY, P.J. and ODUM, W.E., 1973: Man's impact on the outer banks of North Carolina. *Am. Sci.* 61, 152-162.
- DORROH, R.J., 1971: The vegetation of Indian shell mounds and rings of the South Carolina coast. Master's thesis, Univ. South Carolina, Columbia, S.C.
- ENGELS, W., 1942: Vertebrate fauna of North Carolina coastal islands. I. Ocracoke Island. *Amer. Midl. Nat.* 28, 278-304.
- 1952: Vertebrate fauna of North Carolina coastal islands. II. Shackleford Banks. *Amer. Midl. Nat.* 47, 702-742.
- FISHER, J.J., 1967: Development patterns of relict beach ridges, outer banks barrier chain, North Carolina. Ph. D. thesis, Univ. North Carolina, Chapel Hill, N.C.
- FLETCHER, S.W., 1972: Ecology of *Cakile harperi* on the outer banks of North Carolina. Master's thesis, Duke Univ., Durham, N.C.
- 1975: Adaptations of two seasonally dissimilar annual plant species to the environment of the Carolina outer banks. Ph. D. thesis, Duke Univ., Durham, N.C.
- GODFREY, P.J., 1976: Barrier island ecology of Cape Lookout National Seashore and vicinity, North Carolina. U.S. Nat. Park Serv., Sci. Monogr. 9.
- and GODFREY, M.M., 1973: Comparison of ecological and geomorphic

- interactions between altered and unaltered barrier island systems in North Carolina. In: COATES, D.R. (ed.), Coastal morphology. 239-258.
- HARPER, J.R. and SENECA, E.D., 1974: A preliminary study of flowering in *Uniola paniculata* along the North Carolina coast. Bull. Torrey Bot. Club 101, 7-13.
- HOSIER, P.E., 1973: The effects of oceanic overwash on the vegetation of Core and Shackleford Banks, North Carolina. Ph. D. thesis, Duke Univ., Durham, N.C.
- JOHNSON, D.S., 1900: Notes on the flow of the banks and sounds at Beaufort, North Carolina. Bot. Gaz. 30, 405-410.
- KEARNEY, T.H., 1900: The plant covering of Ocracoke Island; a study in the ecology of the North Carolina strand vegetation. Contr. U.S. National Harbarium 5, 261-319.
- KENLEY, L., 1962: The vegetation of a coastal island - Shackleford Bank. Bachelor's thesis, Univ. North Carolina, Chapel Hill, N.C.
- LEWIS, I.F., 1919: The vegetation of Shackleford Bank. N.C. Geol. and Econ. Surv., Econ. Pap. 46.
- NATIONAL PARK SERVICE, 1977: A preliminary resource inventory of the vertebrates and vascular plants of Cape Lookout National Seashore North Carolina. Mgt. Rpt. 22. S.E. Region. U.S. Nat. Park Serv.
- PEARSE, A.S., HUMM, H.J. and WHARTON, G.W., 1942: Ecology of sand beaches at Beaufort, North Carolina. Ecol. Monogr. 12, 135-190.
- OOSTING, H.J., 1945: Tolerance of salt spray of plants of coastal dunes. Ecology 26, 85-89.
- 1954: Ecological processes and vegetation of the maritime strand in the southeastern United States. Bot. Rev. 20, 226-262.
 - and BILLINGS, W.D., 1942: Factors effecting vegetational zonation on coastal dunes. Ecology 23, 131-142.
- PINSON, J.N., Jr., 1973: A floristic analysis of open dunes in South Carolina. Ph. D. thesis, Univ. South Carolina, Columbia, S.C.
- RAYNER, D.A., 1974: An analysis of maritime closed dunes vegetation in South Carolina. Master's thesis, Univ. South Carolina, Columbia, S.C.
- and BATSON, W.T., 1976: Maritime closed dunes vegetation in South Carolina. Castanea 41, 58-70.
- ROUDTHALER, K., 1952: Flowering plants of Ocracoke Island. Bachelor's thesis, Reed College, Portland, Oreg.
- SCHROEDER, P.M., DOLAN, R. and HAYDEN, B.P., 1976: Vegetation changes associated with barrier-dune construction on the outer banks of North Carolina. Env. Manag. 1, 105-114.
- STALTER, R., 1974: Vegetation in coastal dunes of South Carolina. Castanea 39, 95-103.
- VALK, A.G. VAN DER, 1973: Ecological investigations of the foredune vegetation of Cape Hatteras National Seashore. Ph. D. thesis, North Carolina St. Univ., Raleigh, N.C.
- 1974: Mineral cycling in coastal foredune plant communities in Cape Hatteras National Seashore. Ecology 55, 1349-1358.
 - 1974: Environmental factors controlling the distribution of forbs on coastal foredunes in Cape Hatteras National Seashore. Can. J. Bot. 52, 1057-1073.
- WAGNER, R.H., 1963: The ecology of *Uniola paniculata* L. in the dune-strand habitat of North Carolina. Ph. D. thesis, Duke Univ., Durham, N.C.

- 1964: The ecology of *Uniola paniculata* L. in the dune-strand habitat of North Carolina. Ecol. Monogr. 34, 79-96.
- WELLS, B.W., 1939: A new forest climax: the salt spray climax of Smith Island, North Carolina. Bull. Torrey Bot. Club 66, 629-634.
- and SHUNK, I.V., 1938: Salt spray: an important factor in coastal ecology. Bull. Torrey Bot. Club 65, 485-492.
- WOODHOUSE, W.W. and HANES, R.E., 1966: Dune stabilization with vegetation on the outer banks of North Carolina. Soils Inf. Series 8. North Carolina St. Univ., Raleigh, N.C.

F. SALT MARSH COMMUNITIES

- ADAMS, D.A., 1962: Factors influencing vascular plant zonation in North Carolina salt marshes. Ph. D. thesis, North Carolina St. Univ., Raleigh, N.C.
- 1963: Factors influencing vascular plant zonation in North Carolina salt marshes. Ecology 44, 445-456.
- ANDERSON, C.E., 1974: A review of structure in several North Carolina salt marsh plants. In: REIMOLD, R.J. and QUEEN, W.H. (eds.), Ecology of halophytes. Academic Press, N.Y. 307-345.
- BADEN, J.A., 1971: Tidal marsh vegetation in abandoned rice fields, Winyah Bay, Georgetown, South Carolina, Master's thesis, Univ. South Carolina, Columbia, S.C.
- BATSON, W.T. and STALTER, R., 1975: Factors affecting the distribution of vegetation of abandoned rice-fields, Georgetown County, South Carolina. Castanea 40, 171-184.
- BROOME, S.W., WOODHOUSE, W.W. and SENECA, E.D., 1973: An investigation of propagation and mineral nutrition of *Spartina alterniflora*. Univ. North Carolina, Sea Grant Publ. 73-14.
- 1975: The relationship of mineral elements to growth of *Spartina alterniflora* in North Carolina: I. Nutrient status of plants and soils in natural stands. Proc. Soil Sci. Soc. Am. 39, 295-301.
- COOPER, A.W. and WAITS, E.D., 1973: Vegetation types in an irregularly flooded salt marsh on the North Carolina outer banks. J. Elisha Mitchell Sci. Soc. 89, 78-91.
- DAVIS, L.V. and GRAY, I.E., 1966: Zonal and seasonal distribution of insects in North Carolina salt marshes. Ecol. Monogr. 36, 275-295.
- FOSTER, W.A., 1968: Studies on the distribution and growth of *Juncus roemerianus* in southeastern Brunswick County, North Carolina. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- HILL, C.M., 1942: Pioneer vegetation on barren "shoals" at Beaufort, North Carolina. Master's thesis, Duke Univ., Durham, N.C.
- KURZ, H. and WAGNER, K., 1957: Tidal marshes of the Gulf and Atlantic coasts of northern Florida and Charleston, South Carolina. Fla. State Univ. Studies 24.
- LONGSTRETH, D. and STRAIN, B.R., 1977: Effects of salinity and illumination on photosynthesis and water balance of *Spartina alterniflora* Loisel. Oecologia 31, 191-199.
- McKEE, K.L., 1972: The decomposition of *Juncus roemerianus* and *Spartina alterniflora*. Master's thesis, North Carolina St. Univ., Raleigh, N.C.

- MOORING, M.T., COOPER, A.W. and SENECA, E.D., 1971: Seed germination response and evidence for height ecophenes in *Spartina alterniflora* from North Carolina. *Am. J. Bot.* 58, 48-55.
- ODUM, E.P. and FANNING, M.E., 1973: Comparison of the productivity of *Spartina alterniflora* and *S. cynosuroides* in Georgia coastal marshes. *Bull. Ga. Acad. Sci.* 31, 1-12.
- REED, J.F., 1947: The relation of the *Spartinetum glabrae* near Beaufort, North Carolina, to certain eadphic factors. *Am. Midl. Nat.* 38, 605-614.
- REIMOLD, R.J., 1977: Mangals and salt marshes of eastern United States. In: CHAPMAN, V.J. (ed.), *Wet coastal ecosystems. Ecosystems of the world 1*, 157-166. Elsevier, New York.
- SHRINER, D.S., 1971: Transect studies of salt marsh vegetation in Port Royal Sound and North Edisto River estuaries, South Carolina. Master's thesis, Univ. South Carolina, Columbia, S.C.
- STALTER, R., 1968: An ecological study of a South Carolina salt marsh. Ph. D. thesis, Univ. South Carolina, Columbia, S.C.
- 1969: Transplantation of salt marsh vegetation, Georgetown, South Carolina. *Ecology* 50, 1087-1089.
- 1973: Factors influencing the distribution of vegetation of the Cooper River Estuary. *Castanea* 38, 18-24.
- STIVEN, A. and PLOTECIA, R.K., 1976: Salt marsh primary productivity estimates for North Carolina coastal counties: Projections from a regression model. Univ. North Carolina, Sea Grant Publ. UNC-76-6.
- STROUD, L.M., 1969: Color-infrared aerial photographic interpretation and net primary productivity of a regularly-flooded North Carolina salt marsh. Master's thesis, North Carolina St. Univ., Raleigh, N.C.
- 1976: Net primary production of below ground material and carbohydrate patterns of two height forms *Spartina alterniflora* in two North Carolina marshes. Ph. D. thesis, North Carolina St. Univ., Raleigh, N.C.
- and COOPER, A.W., 1968: Color-infrared aerial photographic interpretation and net primary productivity of a regularly-flooded North Carolina salt marsh. Univ. North Carolina, Water Resources Res. Inst., Rpt. 14.
- WAITS, D.E., 1967: Net primary productivity of an irregularly-flooded North Carolina salt marsh. Ph. D. thesis, North Carolina St. Univ., Raleigh, N.C.
- WILLIAMS, R.B., 1972: Compartmental analysis of the production of *Juncus roemerianus* in a North Carolina salt marsh. *Chesapeake Sci.* 13, 69-79.
- WILSON, K.A., 1962: North Carolina wetlands: their distribution and management. North Carolina Wildlife Resources Commission, Raleigh, N.C.

ADDED TITLES

General - Background and general

- BRUCE, P.A., 1896: Economic history of Virginia in the seventeenth century. 2 vols. N.Y.

CURTIS, M.A., 1860: Botany: containing a catalogue of the plants of the state with descriptions and history of the trees, shrubs, and woody vines. Geol. Nat. Hist. Survey N.C., Pt. 3, Raleigh.

Piedmont - General

WILKES, C., 1858: Report of the commission for the examination of the iron, coal and timber of the Deep River country in the state of North Carolina. 35th Cong. 2nd Sess., Sen. Exec. Doc. 26.

Coastal Plain - General

LEVY, 1976: G.F., 1976: Vegetative study of the Duck Field Research Facility, Duke, North Carolina. U.S. Army, Corps Eng., Coastal Eng. Res. Cent., Ft. Belvoir, Va. Misc. Rpt. 76-6.

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