# ALABAMA BIRDLIFE



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# CONTENTS

| Breeding Status of the Song Sparrow in Alabama<br>C. W. Summerour                  | • |       | 3  |
|--|---|-------|----|
| New Colony of Cliff Swallows at Cedar Bluff<br>C. W. Summerour                     | • |       | 5  |
| Nesting of the Swainson's Warbler in Alabama<br>C. W. Summerour                    | • |       | 6  |
| Pelagic Birds and Weather Along the Alabama Coast — A Correlation?<br>R. A. Duncan | • |       | 11 |
| Membership List  | • | • • • | 12 |
| Summary of Spring Board Meeting  | • |       | 17 |
| In Memoriam  | • |       | 19 |
| From the Editor  |   |       | 20 |

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## BREEDING STATUS OF THE SONG SPARROW, MELOSPIZA MELODIA, IN ALABAMA

#### C. W. Summerour

The Song Sparrow, <u>Melospiza melodia</u>, is a common winter resident throughout Alabama and a locally common summer resident in the northeastern corner of the State. In recent years the species appears to have been extending its range slowly into the mountain region and has become a common summer resident in certain localities.

The first record of a Song Sparrow in Alabama during the breeding season was an account given by T. Z. Atkeson of a bird at Wheeler Refuge on June 5, sometime between 1936 and 1946. About ten years later positive breeding evidence was confirmed by T. A. Imhof (1962) and H. M. Stevenson who observed a parent bird feeding a dependent fledgling at Valley Head in DeKalb County on June 4, 1954.

Since Imhof's and Stevenson's record, numerous singing males have been reported from the mountain region, notably from Jackson, Marshall, DeKalb, Cherokee, Morgan and Etowah counties, but no nesting observations were recorded to confirm positive breeding evidence.

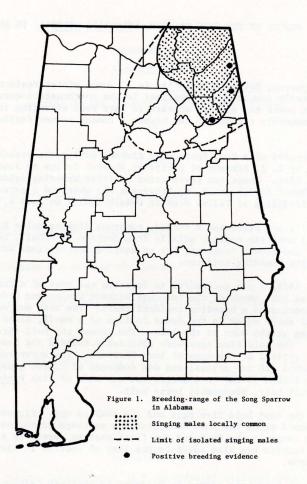
On May 21, 1974, I was successful in locating the nest of a Song Sparrow on an island in Weiss Lake south of the causeway between Center and Cedar Bluff, confirming the species as a breeding resident there. The nest was well concealed 30 inches (76 cm) above water in the dense foliage of a small, alder, <u>Alnus serrulata</u>, growing at the edge of the lake. The grassy cup held three eggs and one cowbird egg. The pale blue eggs were noticeably rounded and heavily marked with brown dots, typical of the eggs of Song Sparrows. The outer cup of the nest measured four inches (10 cm) across; and was composed of coarse grasses; the inner cup measured two inches (5 cm) in diameter and was made of fine <u>Panicum</u> tops and sparcely lined with hair, presumably horse hair.

On May 25 the nest held five eggs and the cowbird egg. Pictures were taken to verify the record since the nest constituted a southern extension of the Song Sparrow's summer range in the East and the first nesting record in Alabama. The presence of the cowbird egg also added to the list of species in Alabama parasitized by cowbirds.

Song Sparrows have been common in Piedmont in northern Calhoun County for at least the past three years, and in May, 1977, I observed a parent bird feeding a fledgling in a vacant lot there, providing further breeding evicence. The birds are also common in Gadsden and around Guntersville Lake and probably in localized areas within the shaded area shown in Figure 1.

Positive breeding evidence has now been recorded at Weiss Lake, Piedmont and Valley Head, but the birds probably nest wherever they occur during the summer months, with the possible exception of isolated males on the leading edge of the range extension.

Isolated singing males have been recorded at Anniston (C. W. Summerour, August 6, 1976), Birmingham (T. A. Imhof, June 6, 1971) and, as mentioned earlier, at Decatur (T. Z. Atkeson, June 5, between 1936 and 1946).



At present, the leading edge of the Song Sparrow's range extension in Alabama, based on observations of singing males, extends approximately from the Tennesssee line in Madison or Limestone counties south to Decatur and Birmingham and east to Anniston and northwestwardly to the Georgia State line (Figure 1).

Song Sparrows prefer disturbed habitats in early seral stages of development. Good places to look and listen for them is around weedy, vacated lots, junk yards, parking lots, railroad rights-of-way, old fields, and along lake edges. There is an abundance of disturbed habitats in Alabama and it seems probable that the Song Sparrow will slowly continue to increase as a breeding resident in the State.

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## NEW COLONY OF CLIFF SWALLOWS AT CEDAR BLUFF

#### C. W. Summerour

For at least the past two years Cliff Swallows, <u>Petrochelidon pyrrhonota</u>, have been nesting in association with Barn Swallows under a bridge spanning Weiss Lake on highway 68 just west of Cedar Bluff, in Cherokee County.

Several Cliff Swallows were first observed flying among Barn Swallows near the bridge on the 1977 June Breeding Bird Census. A check under the bridge turned up three active nests. In June 1978 six nests were counted from the same vantage point and more Cliff Swallows were seen among the Barn Swallows. Other nests were probably under a portion of the bridge that could not be seen without a boat.

This new colony represents at least the second occurrence of positive breeding outside the Tennessee Valley since 1975, and the birds have been seen during June and July in Cullman, Walker and Jefferson counties as well (Imhof, 1976). Since Cliff Swallows occupy a niche similar to Barn Swallows and show a similar preference for water and bridges as nesting sites, it seems likely that they may be extending their range southward into the State as Barn Swallows have been doing in recent years. Be on the alert for them darting about among the Barn Swallows near bridges and overpasses.

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#### NESTING OF THE SWAINSON'S WARBLER IN ALABAMA

#### C. W. Summerour

In spite of a growing number of bird students in the field, easier accessibility to more areas, and availability of numerous publications, field guides and other bird literature, the Swainson's Warber, <u>Limmothlypis swainsonii</u>, remains today one of the least known of American songbirds. This is due mainly to the impenetrable nature of its haunts, and for this reason most observers know the species only as a "voice in the swamp," a clear, sweet, piercing song emitted from the deep shade of some swampy tangle. Anyone wishing to pursue the matter further had best prepare himself for dense tangles, quagmires, hordes of persistent mosquitoes, encounters with unfriendly cottonmouths and an occasional ill-tempered rattlesnake.

Arthur H. Howell (1928), an early field ornithologist and author of the first book on the birds of Alabama, noted that the Swainson's Warbler was "confined to deep swamps and river bottom woods where camebrakes are found . . . and its secretive habits conceal it from all but the most persistent observer." Sprunt and Chamberlain (1949) also concurred that the Swainson's Warber remains . . . one of the few land birds really difficult to find and study."

It is not surprising then, considering the difficulty in working with the birds, that breeding data are difficult to obtain. In Alabama only three positive nesting accounts have been described, two by Howell (1928) of nests he discovered on an island in the Tennessee River in May, 1912, near Florence, and the recent nesting record presented in this paper by the author, found near Jacksonville, in northeast Alabama, on May 11, 1977.

Another nest, possibly that of a Swainson's Warbler, was found May 14, 1978, by Mark Brown, a student at Auburn University, and Milton Harris, a professor in the Chemistry Department of UAH, and has been cited by Imhof (1978) in <u>American</u> <u>Birds</u>. In listing spring arrival dates for the Southern Region, Imhof states that late arriving Swainson's Warblers were reported from nine places in Mississippi, Arkansas, and Alabama, the earliest April 15 near Vicksburg and "three with a nest in the Sipsey Forest, Lawrence Co., Ala. May 14."

Personnal communication with Brown revealed that a nest had been found in the vicinity where three Swainson's Warblers were observed, two of which were seen near a nest thought to be that of a Swainson's Warbler. No bird was actually seen on the nest, nor were detail observations made on the construction of the nest. Brown felt, but did not look, into the nest and found it empty, so no egg descriptions were available to confirm the identity of the nest. The lining he said, felt coarse "something like rootlets." The nest, as described by Brown, was "about five feet high over dry ground in a 'scupernong vine' and composed of twigs and leaves." Harris recalled that the nest was in sparse cane, but Brown, who examined the nest more closely, said no cane was in the area.

Regarding the early account of Howell, he states that "both nests were in rather open canebrakes in heavy timber, on dry ground but close to the border of a small slough. They were loosely fastened in the upper branches of cane stems, about four feet above the ground. One nest, found May 5, contained 2 eggs; May 8, it held 3 eggs and the female parent was incubating . . . the other nest was found the same day and was empty, though apparently just completed." For 65 years this rather brief description was the only information available on the breeding habits of the Swainson's Warbler in Alabama.

On May 7, 1977, while exploring a beaver swamp six miles west of Jacksonville, I observed a female Swainson's Warbler carrying nesting material, but a thorough search of the area failed to locate the nest. On a return trip four days later, on May 11, I was successful in finding the partially completed nest about 25 yards (23 meters) from the spot where I had observed the female gathering nesting material.

The nest was about chest high in thick, vine entangled hardwood undergrowth near the edge of a beaver pond. Only the outer cup had taken shape at the time and was composed of mud-soaked leaves, some of which had been placed apart from the main body of the nest, giving the whole the appearance of a loose, ragged mass of leaves lodged in the vegetation. The inner cup had just been started and consisted of only a few grass stems. Judging from the degree of completion, nest construction must have begun on or near May 7, when I first observed the female carrying nesting material.

On May 15 the nest appeared completed but held no eggs. Considering nest construction to have begun on or near May 7, time required for construction was about six to nine days.

On May 19 when I returned to check the nest, the female was incubating and allowed me to approach within three feet before slipping from the nest and disappearing into the swamp, revealing four clear, pinkish-white eggs.

Since the nest was empty at noon on the 15th and the female was incubating four eggs on the morning of the 19th, the laying interval was apparently one egg per day. This agrees with finding by Meanley (1971) and would also be consistent with the laying interval of other warblers.

As incubation advanced, the female became an extremely close sitter and would allow me to approach within 18 inches (46 cm) while I snapped pictures of her on the nest. On May 26, one week into the incubation period, I had to touch her with my finger so that she would move for me to check the contents of the nest. Even then, she only hopped up on the rim of the nest long enough for me to see the contents, now only three eggs.

There is no satisfactory explanation for the missing egg. A snake would have in all probability taken all of the eggs, not just one, and a mammal predator would have damaged the nest while pilfering the contents. I had noticed on the first day of incubation, when the nest held four eggs, that the female appeared to sit abnormally high in the nest, then several days later she seemed to be nestled much lower into the cup. It is conceivable that she removed one egg intentionally in order to fit more comfortable into the nest and better accommodate a smaller clutch of three eggs.

At noon on June 1, the nest was checked by Don Salls, a student at Jacksonville State University, and the female was still incubating three eggs. Around noon the following day, June 2, Salls again checked the nest and found that all three eggs had hatched.

7

Since incubation began on or near the morning of May 19, and the eggs hatched between noon of June 1 and noon June 2, the incubation period was determined to be  $13\frac{1}{2}$  to  $14\frac{1}{2}$  days. This agrees with two incubation periods cited by Meanley (1971) of 13 days and 14 or 15 days.

The nest was empty when I checked it five days later, on June 7, presumably the work of a snake since the nest was completely in tact and in no way damaged, as one would expect from a mammalian predator. Several snakes were seen on different occasions in the immediate vicinity of the nest. These included two watersnakes, <u>Natrix sipidon</u>, a black racer, <u>Coluber constrictor</u>, and a cottonmouth, Agkistrodon piscivorus, the latter uncommon in northeast Alabama.

Since the nest was no longer in use, measurements were taken at the nesting site and the nest collected for more detailed study. The nest measured exactly 4.5 feet (1.37 meters) above dry ground and was supported by honeysuckle, Lonicera japonica, and round-leaf smilax, Smilax rotundifolia, that entwined about a small hophornbeam, Ostrya virginiana, and formed an umbrella-like canopy over the nest.

The outer cup measured 4.5 and 7.5 inches (11.43 by 19.05 cm) and was constructed of mud-soaked leaves of oak, maple and yellow poplar (Table 1) many of which were placed with their pedioles pointed outward. The leaves had been placed in position while wet, and in spite of their loose, ragged appearance, were molded together securely. All total the outer cup was constructed of 46 separate pieces of plant materials.

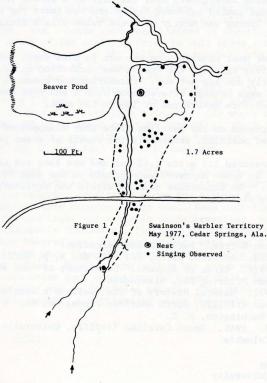
TABLE 1: Composition of Swainson's Warbler nest found near Cedar Springs, Alabama, May 11, 1977.

| Outer cup   | No.  | of plant         | parts |
|---|------|------------------|-------|
| Sugar maple, Acer saccharum                                   |      |                  |       |
| Water oak, Quercus niger                                      |      | 6                |       |
| Red maple, Acer rubrum  |      |                  |       |
| Yellow poplar, Liriodendron tulipifera                        |      | 4                |       |
| Willow oak, Quercus phellos                                   |      |                  |       |
| Northern red oak, Quercus rubra                               |      | 1                |       |
| Unknown   | • •  | $ \frac{19}{46}$ |       |
|   |      | 40               |       |
| Inner cup (skeletonized)                                      |      |                  |       |
| Hornbeam or hophornbeam, Ostrya virginiana or Carpinus caroli | inia | na. 12           |       |
| Blackcherry, Prunus serotina                                  |      | 11               | -     |
| Hackberry, Celtis sp  |      | 12               |       |
| Dogwood, Cornus sp  |      | 7                |       |
| Greenbriar, Smilax sp   |      | 1                |       |
| Unknown   |      | 83               |       |
|   |      | 126              |       |
| Lining  |      |                  |       |
| Grasses   |      | 172              |       |
| Red maple, <u>Acer</u> rubrum, pedicels                       | • •  | $\frac{83}{255}$ |       |
|   |      | 233              |       |
| Miscellaneous   |      |                  |       |
| Red maple, Acer rubrum, seed                                  | • •  | 1                |       |
| Total plant parts in nest                                     |      | 428              |       |

The inner cup measured 2.00 x 2.37 inches (5.08 x 6.01 cm) and was composed of highly skeletonized leaves of blackcherry, <u>Prunus serotina</u>, hackberry, <u>Celtis</u> sp., dogwood, <u>Cornus</u> sp., and hophornbeam, <u>Ostrya</u> <u>virginiana</u>, which were molded together to form a neat, round, thick rimmed cup. The lining of the inner cup was composed mostly of grass culms with a sparse final lining of red maple pedicels covering the lower half and bottom of the cup. Grass culms comprised the bulk of the inner lining, totaling 172 pieces, and maple pedicels 83 pieces. The latter are apparently a preferred item since Meanley (1971) also noted that all of eleven nests studied from the Dismal Swamp in Virginia were lined with red maple pedicels.

All total, the entire nest was made of 428 pieces of plant material which is consistent with 418 in a Pendleton Ferry, Arkansas, nest and 323 from a Dismal Swamp nest reported by Meanley (1971).

The territory, based on observation of the singing male over a four week period (May 5 - June 7), measured 1.7 acres (.69 ha) and was long and narrow in shape (Figure 1). By comparison, the size of nine territories cited by Meanley (1971) ranged from 0.3 acres (.12 hectares) to 4.8 acres (1.94 hectares). Another territory mapped by the author in Calhoun County measured 3.9 acres (1.58 hectares).



The nest was in thick hardwood undergrowth composed chiefly of hophornbeam Ostrya virginiana swamp dogwood, Cornus sp., supar maple, Acer saccharum, and spicebush, Lindera bensoin.

The overstory was composed of widely spaced ash, <u>Fraxinus</u> sp., winged elm, <u>Ulmus</u> <u>alata</u>, yellow poplar, <u>Liridendron</u> <u>tulipifera</u>, blackgum, <u>Nyssa</u> <u>sylvatica</u>, sycamore, <u>Platynus</u> <u>occidentalis</u>, and mulberry, <u>Morus</u> <u>rubra</u>, averaging 50-60 feet (15-18 meters) high. The dense understory consisted mostly of spicebush, <u>Lindera</u> <u>bensoin</u>, of rather uniform size, hophornbeam, <u>Ostrya</u> <u>virginiana</u>, and swamp dogwood, <u>Cornus</u> sp. that was interlaced with open "sponges" of water overgrown in aquatic vegetation, chiefly lizard's tail, <u>Sarurus</u>, and drained by sluggish meandering streams. The drier sites tended to have spots of relatively open second growth.

## Summary

Due mainly to the inhospitable nature of its haunts, the Swainson's Warbler remains today one of the least known of American Songbirds. A new nesting record for the species in Alabama was found by the author on May 11, 1977, six miles west of Jacksonville, near Cedar Springs, in northeast Alabama.

The well concealed nest was four and a half feet (1.37 meters) above dry ground in dense hardwood undergrowth near the edge of a beaver pond. The outer cup was composed of mud soaked hardwood leaves and the inner cup of highly skeletonized leaves. The lining was mostly of grass culms with a finished lining of red maple pedicels.

Time required for nest construction was six to nine days. Since the nest was empty on May 15 and four eggs and the female was incubating on May 19, the laying interval was apparently one egg per day. Incubation was known to have begun on or near May 19, and the eggs hatched between noon June 1 and noon June 2. The incubation period was therefore determined at  $13\frac{1}{2}$  to  $14\frac{1}{2}$  days.

No data were gathered on the nestling since they disappeared from the nest within five days after hatching, presumably the result of snake predation.

The territory measured 1.7 acres (.69 ha) and was long and narrow in shape. The nest was located in dense hardwood undergrowth on the edge of, and near one end of, the territory. No canebrakes existed within the territory nor were any known to occur in the vicinity.

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# PELAGIC BIRDS AND WEATHER ALONG THE ALABAMA COAST - A CORRELATION?

## Robert A. Duncan

Sightings of pelagic birds along the Alabama coast have increased dramatically in recent years, due primarily to increased forays of birders into the Gulf in search of these wandering seabirds, and to heightened diligence by coastal observers. Some pelagic trips have been outstandingly successful, others quite disappointing. What role, if any, does weather play in bringing pelagic birds to the extreme northern Gulf and adjacent coastal waters? In an effort to answer this question, the author has recorded daily weather conditions at Gulf Breeze, Florida since 1954. Wind direction and velocity are often suspected to be the major weather factors influencing seabird movements in the Gulf. Wind direction and velocity are determined by pressure gradients of high and low pressure cells affecting areas of hundreds or thousands of square miles. Thus, other than localized conditions which exist temporarily and affect relatively small areas in summer, wind direction and velocity at Gulf Breeze should be representative of conditions along the Alabama coast. This has been borne out through weather observations during hawk watches in the fall.

A search was made for all pelagic bird sightings (other than Gannets) after 1961, referred to in <u>Alabama Birds</u> (Imhof, 1976), and all sightings in <u>American</u> <u>Birds</u> 1975 - June 1978. The records used were limited to sightings from coastal waters and within 20 miles of the coast in order to omit those birds that regularly winter or summer farther out in the Gulf. The weather data used included conditions that existed the day of the sighting and the preceding two days, in order to account for birds that may have lingered in the area after certain conditions. The following weather conditions were considered: (1) winds of at least moderate intensity (13 mph or above) with an onshore component (WSW to ESE). Of the 32 days, only 13 days fell into this category. (2) winds with an easterly component (NNE to SSE) and of at least moderate intensity. Only 11 of the 32 days fell into this category. (3) winds with an easterly component without regard to velocity. Only 16 of the 32 days fell into this category.

Although more data and a detailed analysis would be needed to draw a definite conclusion, it appears unlikely taht there is a correlation between pelagic sightings and wind direction-velocity conditions along the Alabama coast. Indeed, some significant sightings have occurred under conditions when flat stagnant highs with little circulation and light and variable winds prevailed, such as 6/30/78 when Alabama's first Audubon's Shearwater, <u>Puffinus iherminieri</u>, was found, 8/14/73 when 16 Greater Shearwaters, <u>Puffinus gravis</u>, were seen 9 miles south of Dauphin Island, and 4/6/76 when three Blue-faced Boobies, <u>Sula dactylatra</u>, were observed near Dauphin Island. However, the author has taken pelagic trips 20 miles south of Pensacola under such conditions in August 1974, September 1975 and July 1978 and has seen only one unidentified petrel. Thus birders may not be able to rely on specific weather conditions to bring them pelagic birds.

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#### SUMMARY OF SPRING BOARD MEETING

The A.O.S. Board of Directors Meeting was held at the library of the Marine Environmental Sciences Consortium at 1:00 P.M. on April 28, 1979. Those attending were Jim Thompson, Tom and Martha Rogers, Bob Duncan, Bob Reid, Fairly Chandler, Curtis Kingsberry, Dwight Cooley, Douglass McGinty and Harriett Wright. Two new members of the board were introduced, Dwight Cooley and Douglass McGinty.

President Jim Thompson announced that because of increased duties in his work he must resign as President of A.O.S. Dwight Cooley who had accepted the nomination as Vice President will assume the office of President of A.O.S. Tom Rogers who has been Vice President will become Editor of Alabama Birdlife.

The A.O.S. business meeting immediately followed the directors meeting. Martha Rogers, Treasurer, reported that following the fall 1978 meeting there was a balance of \$756.00 in the treasury.

Tom Rogers made a motion and it was duly seconded and unanimously carried to budget \$100.00 to help defray the expense of cutting the Shell Mound bowl or the Pig Pen area in the Audubon Sanctuary on Dauphin Island. The following resolutions were approved by the board and adopted by the members unanimously; Bob Reid, made the presentations:

- 1. A.O.S. is opposed to the granting of any additional drilling permits for exploratory oil and gas wells in Mobile Bay.
- 2. A.O.S. expresses opposition to the release for industrial development of lands in the Mallard-Fox Creek Wildlife Management Area on the Tennessee River west of Decatur.
- 3. A.O.S. supports preservation of Little Point Clear on Mobile Bay for Fish and Wildlife purposes and opposes the proposed dredge and fill development in that area.

Nancy Garrett requested letters by A.O.S. members expressing concern for Little Point Clear to the Army Corps of Engineers opposing dredging and development in the Little Point Clear area; letters to Congressman Jack Edwards to request that the Fish and Wildlife Department purchase the land of Little Point Clear; letters to Glen Greenwalt for support of preserving these marshes at Little Point Clear.

The new President, Dwight Cooley, proposed a winter meeting for A.O.S. in the Wheeler Wildlife Refuge Area. The dates were to be decided upon.

#### RESOLUTIONS PASSED

1) BE IT RESOLVED by the Alabama Ornithological Society that this Society does hereby strongly recommend and urge that no permits for dredging or fill operations be granted for the Little Point Clear area on Mobile Bay and that that area be preserved for fish and wildlife uses as the valuable and irreplaceable natural asset and resource it now is for the benefit of the State of Alabama and the general public; and

BE IT FURTHER RESOLVED that, in evidence of its concern as to the need for such preservation, a copy of this resolution be sent to the United States Senators of the State of Alabama, the United States Representative of the First Congressional District of Alabama, the Mobile District Engineer of the U. S. Fish and Wildlife Service, the President of the Alabama Water Improvement Commission, the Attorney-General of Alabama, the Regional Administrator of the Environmental Protection Agency, and any other agencies or public officials concerned.

2) BE IT RESOLVED by the Board of Directors of the Alabama Ornithological Society that the action of its Conservation Committee in expressing opposition of the Society to the granting of any additional drilling permits for exploratory oil and gas wells in Mobile Bay be hereby in all respects ratified, approved and confirmed.

3) BE IT RESOLVED by the Board of Directors of the Alabama Ornithological Society that the action of its President in expressing opposition of the Society to the release for industrial development of lands in the Mallard-Fox Creek Wildlife Management Area on the Tennessee River west of Decatur and opposing the granting of permits for dredging and other operations incident to such developments be hereby in all respects ratified, approved and confirmed, and that the Conservation Committee be authorized to submit comments in behalf of the Society of the draft environmental impact statement of TVA proposing the release of certain of such lands for industrial development and, in that connection, to coordinate the views of the Society with those of other conservation organizations desiring to preserve such lands for wildlife management, conservation and outdoor recreation available to the general public.

# IN MEMORIAM

Fr. J. Lambert Dorn, S. J. May 27, 1979

Dean of our coastal ornithologists, Father Dorn, through his many years, brought a knowledge of Alabama's birdlife and its appreciation to countless numbers of those who had the opportunity to know him and to share the great amount of information he had about our coastal birdlife. He was also compiler of the Mobile Christmas Bird Count for many years and an observer for the Breeding Bird Survey of the U. S. Fish and Wildlife Service since that project was extended to Alabama in 1966. His contributions to ornithology are attested by the numerous records reported under his name; and, although he will be greatly missed, the knowledge, appreciation and enjoyment of our natural world that he stimulated will long endure for the benefit of future generations. AOS extends its deepest sympathy to his family and many friends.



# EDITOR'S NOTE

I am looking forward to being Editor of Alabama Birdlife, but its success will depend on those of you who are willing to make contributions to its content. The present issue represents what I think is a good start. Many of you have information which is publishable but are hesitant to submit the material. It would be helpful if you would send your observations and ideas to the Editor (including your complaints) because you may have valuable information. An effort will be made to include a wide variety of material in order to satisfy the diversity of our membership. Give Alabama Birdlife an opportunity to be the outlet for your ideas.

D. Thomas Rogers, Editor