

# Fifty years of bird sound publication in North America: 1931-1981

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### I DEDICATION

This paper is dedicated to the memory of Albert R. Brand, with whose support the world's first phonograph record that featured wild birds' voices was published in 1931.

### II INTRODUCTION

THE PURPOSE OF this paper is to present information on bird sound recordings, with special reference to those of North America. The term 'North America' should be taken throughout to mean the North Ameri-

can continent north of Mexico, with the inclusion of Greenland, Bermuda and Baja California. This follows the Fifth Edition of the American Ornithologists' Union's *Check-list of North American Birds* (A.O.U., 1957) and supplements. All avian nomenclature used in this paper also follows that authority where possible. The forthcoming (sixth) edition of the *Check-list* (A.O.U., in preparation) is to redefine North America to cover a wider area and this has been taken into account in the discography, which has an additional section dealing with publications of recordings

from newly-included regions, *i.e.*, Mexico south to Panama's border with Colombia, all of the West Indian islands south to Grenada, and Hawaii.

The discography is essentially a list of commercially-issued North American bird recordings. For the purposes of this paper 'North American Bird recordings' include the following categories:

- a. wild birds recorded in North America, the recording having been published anywhere;
- b. wild birds recorded in the newly included regions (see above) and published anywhere;

- c. captive birds from anywhere recorded in North America;
- d. birds, wild or captive, recorded in North America and published mixed with human music;
- e. radiophonic music based on bird sound and published in North America, and
- f. human imitations of birds published in North America.

These categories are all treated separately. It will be noticed that the categories are arranged in an order which progresses from real wild bird sound to artificial bird imitations. Many North American birds also occur and may have been taped in other zoogeographical regions; hence we have included a select bibliography of discographies from elsewhere in the world. They have in all over 600 entries.

North America has a number of important public collections of mostly unpublished bird sound recordings. They are housed, for example, in the archives of national institutions and universities. The final section of this paper cites all those which are known to us. It is hoped that this paper will inspire the curators of collections not listed to contact us. The section also includes references to some major sound collections outside North America, since these will include recordings of species whose distributions extend beyond North America, Central America and Hawaii.

### III WORLD HISTORY OF BIRD SOUND RECORDING, WITH SPECIAL REFERENCE TO NORTH AMERICA

THE EARLIEST BIRD recording still known to exist is that of a captive Common Shama (*Copsychus malabaricus*) made in Germany in 1889 by Ludwig Koch on an Edison wax cylinder (Koch, 1955).

It is interesting to note that Edison himself anticipated the recording of bird song in drawing up his British patent specification for the phonograph, dated April 24, 1878 (B.P. 1644 or 1878, page 3, line 11): "For amusement or instruction the phonogram can be of a dog's bark, a rooster's crow, a bird's song, a horse's neigh, a lion's roar, and the like, and the phonogram can be used in a toy animal with a single phonet for the

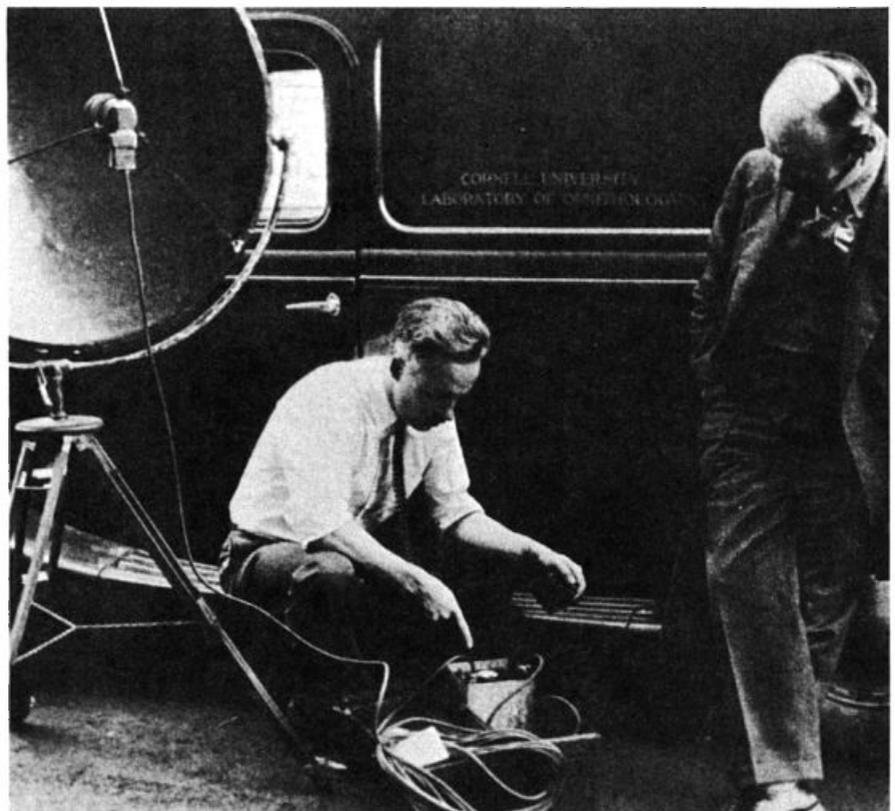
reproduction of the original sound."

The earliest reference in ornithological literature to the reproduction of bird sound is in the account of the 16th Congress of the American Ornithologists' Union in 1898, which mentions a "gramophone demonstration of a Brown Thrasher's (*Toxostoma rufum*) song" (Anon, 1899).

The first bird recordings from nature anywhere in the world were made in the Palearctic region. Cherry Kearton recorded a few notes of a Song Thrush (*Turdus philomelos*) and the song of a Nightingale (*Luscinia megarhynchos*) on a wax cylinder in England in 1900 (Kearton, 1938). The first in the Nearctic region were almost certainly those of a Song Sparrow (*Melospiza melodia*) Rose-breasted Grosbeak (*Pheucticus ludovicianus*) and a House Wren (*Troglodytes aedon*) made on optical sound film, with synchronized action film, on May 18, 1929 in Ithaca, New York

(Kellogg, 1962a). After this, recording began in the Australasian region in 1931 (Littlejohns, 1931, 1933), the Antarctic region in 1934 (Boswall and Prytherch, 1969), the Oriental region in 1937 (Carpenter, 1940) and the Neotropical region during World War II (Wyring, Allen and Kellogg, 1945; Kellogg and Allen, 1950; Asch et al., 1952). Recording in the Afro-tropical region was formerly thought to have begun in 1929 by L. Koch, but the recordings in Heck and Koch (1933) are now believed to be of captive creatures in a European zoo. Further research is needed.

The history of bird voice recording in North America is dominated by the work initiated at Cornell in 1929 by A.A. Allen and P.P. Kellogg and supported from 1931 until his death by Albert R. Brand (Allen, 1937, 1944, 1948 and 1951; Brand, 1933 a and b, 1936, 1939; Kellogg, 1958, 1961a, 1962b). Other major long-term workers include Jerry and Norma Stillwell,



Peter Paul Kellogg (left) demonstrating a new battery-operated amplifier to Albert R. Brand circa 1937. Photo/Arthur A. Allen.

Ed and Ann Boyes, D.J. Borror and W.W.H. Gunn.

PUBLICATION OF BIRD SOUNDS BEGAN in 1891, the first 'bird' phonograph records being of human imitations (Copeland and Boswall, *in press*). It was not until 1910 that genuine bird sound appeared on disc; later, recordings made of captive Nightingales at the Karl Reich aviary at Bremen, Germany, were published on HMV gramophone records (Anon, 1911). The first publication to present selections of recordings of wild birds was A.R. Brand and M.P. Keane's *Bird Songs Recorded From Nature* which appeared in the U.S.A. in 1931. That a disc featuring a selection of wild birds' songs was published in Germany in 1910 (Boswall, 1964, *Brit. Birds* 57: special supplement) is now believed by Boswall to be untrue. C. Weismann's untitled set of five discs was produced in Denmark in 1934 and O. Heinroth and L. Koch's 'sound book' *Gefiederte Meistersänger* was published in Germany in 1935. These were followed by many more selections of commoner wild species. A few discs have been devoted to individual species, one as early as 1931 to the voice of the Lyrebird (*Menura superba*), five such to the Mockingbird (*Mimus polyglottos*) (most recently S.A. Grimes's 1979 LP on which Mockingbirds mimic 86 other species), one to the Common Loon (*Gavia immer*) (1980), and so forth. The first attempt at faunistic treatment—195 species on thirteen 78s—was that of M.E.W. North and E. Simms with *Witherby's Sound Guide to British Birds* (1958). This was closely followed (1959) by P.P. Kellogg and A.A. Allen with their *Field Guide to Bird Songs of Eastern and Central North America* (c. 300 species on two LPs), and Kellogg's (1962) western Nearctic album (c. 500 species on three LPs), both issued by the Laboratory of Ornithology, Cornell University. The largest such treatment so far is S. Palmér and J. Boswall's European 'field-guide' (1981) which gives 612 species on sixteen cassettes; it is published by the Swedish Broadcasting Corporation.

A record by D.J. Borror and W.W.H. Gunn introduced, in 1959, the specialized treatment of individual variation in song. *Warblers* gives songs by 150 individuals of 38



Arthur A. Allen recording seabird sounds in the field. Photo courtesy of Cornell Univ. Press.

species of Parulid. The first attempt to present the species' repertoires of the birds of a country was V.C. Lewis's *Bird Recognition: An Aural Index*, published in Britain in 1966. In the 1970s a number of records appeared which had the more serious educational purpose of presenting the biology of bird sound communication. These included Borror's *Bird Song and Bird Behavior* (1972), a quartet of small German discs devised by G. Thielcke and H.-H. Bergmann (1973-78) called *Biologie der Vogelstimmen*, and R. Jellis's masterly *Bird Sounds and their Meaning* (1977), an LP accompanied by a book. There is a Russian disc (about 1976) designed to scare off unwanted birds (including Bee-eaters (*Merops apiaster*) from hives!) and, in contrast, a cassette by D. Gibson from Canada, the purpose

of which is to lure species into bird-watchers' ken (1976). Since the first in 1971 more and more bird recordings have, like this, been published on tape cassettes.

A NEW DEVELOPMENT came in 1980 with a British record/cassette called *Big Jake Calls the Waders*. This production presents electronically enhanced human mimicry as an aid to field identification, and offers almost unbelievable verisimilitude. It represents a major breakthrough in the history of bird voice reproduction.

So far the most prolific publishers of bird sound have been the Laboratory of Ornithology at Cornell University, U.S.A., Jean-Claude Roché in France, and the Swedish Broadcasting Corporation. The best selling bird-song discs are almost certainly B.N.



William W. H. Gunn using a parabolic reflector and tape recorder in the field.



Donald J. Borror field recording with a Magnemite tape recorder circa the late 1950s. Photo courtesy of Ohio State Univ. Dept. of Photography.

Veprintsev's first three in his Russian *Voices of Birds in Nature* (1960-62) series, each of which had sold about 250,000 copies, mainly within the U.S.S.R., by 1979. One of the best sellers in North America is Gunn's *A Day in Algonquin Park*, which, since its original publication in 1955, has sold 35,000 copies and is still selling.

As can be added up from the discography, a total of 32 coarse groove records, about 150 microgroove records, 4 reel-to-reel tapes and 19 tape cassettes that include recordings of North American birds were published, from 1931 to 1982, mostly in the United States and Canada.

**T**ECHNIQUES OF BIRD recording have been subject to considerable change since their beginning. The earliest recordings were made on wax discs. These were followed by wire (very occasionally), optical sound film which was much used in the 1930s by Cornell (Anon, 1935, Brand, 1931, 1932, 1938), acetate discs, and finally—and most important of all the modern developments—magnetic tape, which was first used for bird sound recording by Palmér in Sweden in 1946. Most recordings have been made on 6.25mm wide tape recorded reel-to-reel, but since the late 1970s 4mm tape cassette recordings have become technically acceptable. The parabolic reflector, which acts like a mechanical ear, enables the recordist to work at distances from the singing bird up to forty times as great as

would be necessary with an open microphone. Dynamic microphones are still widely used, but transistorized condenser microphones—'gun mikes'—which incorporate a directional effect otherwise achieved by the parabolic reflector, are being used more and more. The parabolic reflector was first tried by the Cornell workers in 1932 (Kellogg, 1938) and is now regarded as an indispensable tool (Lanyon, 1957). Brand and Kellogg of Cornell were also the first to transmit the sounds of a bird by short-wave radio for the purpose of record-

ing them; this was in Canada in 1936 (Anon, 1937). Later, this method was used by Weismann in Denmark in 1947, by Palmér in Sweden in the same year, and by Simms in England in 1954. The earliest stereo recordings of birds were made in about 1959 and a number have been published, the first selection on S. Wahlström's disc *Fåglar i Stereo* in 1963. Wahlström also designed and used the first stereo parabolic reflector.

In addition to the use of the reflector and shortwave transmitter there are several simpler field techniques. One such is to play back recordings of advertising sounds to birds in the field in the hope that this will stimulate a reply and lure the birds within range of the microphone. Simpler still is to conceal the microphone near favored singing positions or by the nest. The former technique, if employed too often, could impair breeding success of sensitive species, although this has not yet been proven (Glinski, 1976).

Key American references to early technique are those to Brand (1935) and Kellogg (1938). Rather later we find Kellogg (1960 and 1961b), McChesney (1959), Reynard (1958) and Stillwell (1964). Up-to-date advice is given by Gulledge (1976), Bradley (1977), Davis (1979, 1981), King (1980) and Sellar (1976), and the paper by Wickstrom (*in press*) is thus far the most thorough review of the subject



Richard E. Dana standing beside a 72" diameter parabolic reflector set up in North Pomfret, Vt. Photo courtesy of Droll Yankees.



L. Irby Davis recording in the field October 22, 1957. Photo/David G. Allen.

yet done for biologists, professional or amateur. Uniquely valuable is Hardy's 1978 article on how to prepare a master tape for publication.

At least one sound has been recorded (up to mid-1982) from over half the world's 9000 living bird species. An approximate figure is 5000. Of these sounds about 2500 have been published on about 1150 phonograph records and cassettes; the rest are housed in archives. The ultimate scientific aim, however, must be to record the full vocabulary, vocal and instrumental, of every



George B. Reynard recording from a boat in Santo Tomas Canal, Zapata Swamp, Cuba, July, 1977. Photo/Orlando Garrido.

**Table 1: Recordings of bird sound**

Region	Total no. spp. recorded (approx.) <sup>1</sup>	No. spp. published (approx.)
Nearctic <sup>2</sup>	850	600
Neotropical	1650	550
Palaearctic	850	800
Afro-tropical	1500	650
Oriental	450	125
Australasian	600	250
Antarctic	50	20

<sup>1</sup>No world total is given because many species have been recorded in more than one region.

<sup>2</sup>Totals for the Nearctic region are slightly greater than those for the 'North American' region covered by this paper, which excludes most of Nearctic Mexico.

species of bird, with all the major individual, seasonal, geographical and other variations. The progress towards this is slow, as shown partly by the table below, but, with the ever-increasing likelihood of extinctions of, for instance, tropical rain forest birds, it needs to be stepped up.

**T**HE USES OF BIRD sound recordings are many and varied. They are employed for purposes of personal pleasure and used on gramophone records, in radio programs, in television films. They can have a formal educational purpose, and may be used informally to help with identification. Recordings may be played back in the field by birdwatchers who wish to lure birds into view, ornithologists who wish to experiment or undertake censuses of secretive birds (Marion *et al.*, 1981), hunters who wish to lure vermin or sporting birds within range of weapons (although in the U.S.A. this may be illegal). Recordings in the form of "voice-prints" (sound spectrograms or sonagrams) have been a common feature in ornithological journals for over twenty-five years, illustrating studies of bird behavior, ontogeny, learning ability, heredity and taxonomy. They also appear in two recent general handbooks (Bauer and Glutz von Blotzheim, 1966, and Cramp and Simmons, 1977) and even in one field guide (Robbins, Bruun and Zim, 1966). Spectrograms are a central feature of Bondesen's 1977 volume



John William Hardy recording bird song in Xpugil, Campeche, July 1973. Photo courtesy Ara Records.



Ben and Lula Coffey with equipment. Photo courtesy of the Coffeys.



Current staff of the Library of Natural Sounds, Cornell Univ. James L. Gullede (left), Curator and Gregory Budney, Assistant Curator. Photo courtesy J. L. Gullede.

*North American Bird Songs*. Strictly, Cramp and Simmons (*op. cit.*) give "melograms" not sonagrams; for an up-to-date assessment of this kind of auditory imagery see Hall-Craggs (1979).

At least one species thought to be extinct was rediscovered by means of a recording of its voice: the Puerto Rican Whip-poor-will (*Caprimulgus noctitherus*) (Reynard, 1962).

Tape recordings of birds are used to scare gulls (*Laridae*) from airfields and fish-markets, Starlings (*Sturnus vulgaris*) from orchards, stands of valuable timber and buildings. Avian tapes are also used by the composers of radiophonic music (for example, by Delia Derbyshire for the title music of the BBC television series *Wildlife Safari to the Argentine*).

#### IV THE DISCOGRAPHY

THE FOLLOWING IS A list of all bird sound publications known to the authors that fit the categories mentioned in the Introduction, except that human imitation records published for pure entertainment value are excluded. The entries are arranged within the categories chronologically and include the following in-

formation: a) person or persons primarily responsible for production (usually the recordist); b) date of publication; c) title, including number of a series where appropriate; d) number of discs, cassettes etc. making up entry; e) mode of publication *i.e.*, whether a disc, cassette, etc., when appropriate preceded by measurements of size and speed; f) label (sometimes) and number where applicable; g) publisher and/or distributor and whether included with book or article, with addresses; h) number of species of birds and other animals to be heard on disc, cassette, etc., and i) any other information, such as references to reissues, or errors, added as 'note'.

Some addresses of publishers referred to more than three times, are not given in full but are subsequently listed together. In a few cases we do not have all the relevant information for an entry (often indicated by a '?') and would be interested to hear from readers who can fill these gaps.

There are several important collections of bird sound records, etc., which include many of the entries in this discography. They include those of the British Library of Wildlife Sounds (see p. 942), the Library of Natural Sounds, Cornell Univ. (see

p. 941), the British Broadcasting Corporation, Broadcasting House, White-ladies Road, Bristol BS8 2LR, England, the sub-department of Animal Behavior, Cambridge Univ., Madingly, Cambridge CB3 8AA England, the Laboratory of Biological Acoustics, Naturhistorisk Museum, 800 Aarhus C, Denmark, and the private collections of Jeffery Boswall and David G. Hanna.

This discography is based on Boswall and Kettle (1974) and Hanna (1979). We would be pleased to hear from any reader who knows of omissions from this or the following lists.



If you have old records issued prior to 1950 and are willing to dispose of them, the senior author would be most happy to acquire them.

\*Published by Houghton Mifflin Company and available from Cornell University Laboratory of Ornithology.

†Published by Houghton Mifflin Company in U.S.A. and by the Federation of Ontario Naturalists in Canada.

‡Available from Nature Canada Bookshop

#### IV a. WILD BIRDS RECORDED IN CURRENT A.O.U. AREA

1. Brand, A.R. and M.P. Keane. 1931. *Bird Songs Recorded from Nature*. One 30cm 78 rpm disc. Scully Recording Studio, Bridgeport, Connecticut.

21 species, plus 1 amphibian.

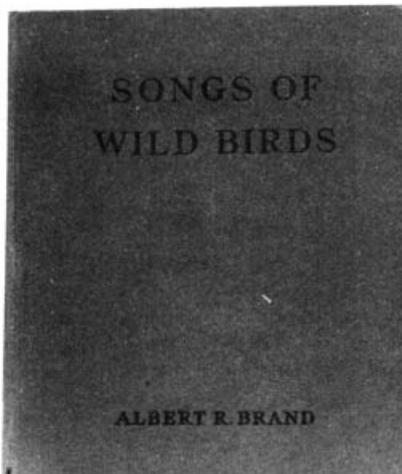


2. Brand, A.R. and M.P. Keane. 1932. *Bird Songs Recorded from Nature*. One 30cm 78 rpm disc. Privately published by A.R. Brand.

? species.

3. Brand, A.R. 1933. *The Songs of Wild Birds*. Two 17.5cm 78 rpm discs, and book (dated 1934), 91pp. Thomas Nelson and Sons, New York.

35 species.



4. Gennett, H. 1934. *Birds*. One 25cm 78 rpm disc, 1153. Gennett Record Company, Richmond, Indiana.

5 species.

5. Gennett, H. 1935. *Red Bird and Miscellaneous Song Birds*. One 25cm 78 rpm disc, 1154. Gennett Record

Company, Richmond, Indiana.

4 species.

6. Brand, A.R. 1936. *More Songs of Wild Birds*. Three 17.5cm 78 rpm discs, and book, 116pp. Thomas Nelson and Sons, New York.

43 species, plus 2 amphibians.

7. Brand, A.R. 1937a. *Native Bird Songs*. One 25cm 78 rpm disc, Victor 25765.

8 species.

8. Brand, A.R. 1937b. *Kirtland's Warbler*. One 30cm 78 rpm disc. Privately published by A.R. Brand.

1 species.

9. Brand, A.R. 1937c. *Leach's Petrel*. One 30cm 78 rpm disc. Privately published by A.R. Brand.

1 species.

10. Brand, A.R. 1937d. *Wild Birds and Their Songs*. (Titles on reverse sides in braille). Two 30cm 78 rpm discs, 2930/1 and 2932/3. American Foundation for the Blind, New York.

38 species, plus 1 insect.

11. Brand, A.R. 1938. *Birds of the North Woods*. (Titles on reverse sides in braille.) Two 30cm 33 1/2 rpm discs, CF 131/2. American Foundation for the Blind, New York.

32 species.

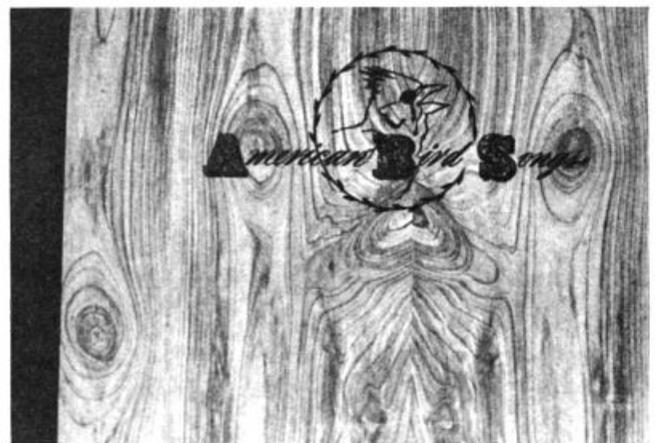
12. Allen, A.A. and P.P. Kellogg. 1940. *Do You Know the Birds?* Two 30cm 78 rpm discs. New York State Education Department, Albany, New York.

c. 11 species.

13. Kellogg, P.P. and A.A. Allen. 1942. *American Bird Songs*. Six 30cm 78 rpm discs. Comstock Publishing Company Inc., Ithaca, New York.

51 species.

Note: for revised LP edition see 34 below.





14. Boyes, E.G. 1947. *Song of Kirtland Warbler in Exact Sequence*. One 30cm 78 rpm disc. Produced for Detroit Audubon Society.

1 species.

15. Brand, A.R. 1950. *Birds of The Everglades*. Two 30cm 78 rpm discs. Privately produced by A.R. Brand Bird Song Foundation.

? species.

16. Kellogg, P.P. and A.A. Allen. 1951. *American Bird Songs, Vol. 2*. Five 30cm 78 rpm discs. Comstock Publishing Company Inc., Ithaca, New York.

51 species.

Note: for revised LP edition, see 26 below.

17. Kellogg, P.P. and A.A. Allen. 1952. *Florida Bird Songs*. One 25cm 78 rpm disc. Cornell University Press, Ithaca, New York.

10 species.

Note: for LP edition, see 88 below.

18. Massachusetts Audubon Society. 1952. *A Mockingbird Sings*. One 30cm 78 rpm disc. Technicord Records, Brookline, Massachusetts.

1 species (imitates more than 30 species).

19. Fox, J.A. and P. Thompson. 1952. *The Greenville Mockingbird in 1940*. One 25cm 78 rpm disc. Greenville, Washington County Chamber of Commerce, Mississippi.

1 species.

20. Lynch, M.L. 1952-53? *Lynch's Crow Calling Record*: (a) *The Riot Call and Live Crow and Hawk Fight*; (b) *The Great Horned Owl and Live Crow Fight*; (c) *The Rally and Fighting Call of Live Crows and Come Back Call of Live Crows*; (d) *Crippled Crow Call with Live Fighting Cocks*; (e) *The Feeding and Get Together Call of Young Crows*. Five 17.5cm 45 rpm discs, 100-104. M.L. Lynch Company, P.O. Box 377, Liberty, Mississippi 39645.

1 species.

21. Stillwell, J. and N. Stillwell. 1952. *Bird Songs of Door-yard, Field and Forest, No. 1*. One 30cm 33 1/3 rpm disc, C-101. Ficker Recording Service, Old Greenwich, Connecticut.

49 species.

Note: for combined edition see 44 below.

22. Anon. c. 1952. *Nature Record*. One 17.5cm 78 rpm disc, C-106. Publisher unknown, but perhaps Ficker Recording Service, Old Greenwich, Connecticut.

23 species.

23. Asch, M. et al. 1953. *Sound Patterns*. One 30cm 33 1/3 rpm disc, Folkways FX6130 (originally FPX 130), and brochure. Folkways Records, New York.

Includes 1 species, the Wood Thrush (*Hylocichla ustulata*).

24. Kellogg, P.P. and J.H. Fassett. 1953. *Music and Bird Songs*. One 25cm 33 1/3 rpm disc. Cornell University Laboratory of Ornithology, Ithaca, New York.†

10 species, plus 6 amphibians.

25. Stillwell, J. and N. Stillwell. 1953. *Bird Songs of Door-yard, Field and Forest, No. 2*. One 30 cm 33 1/3 rpm disc, C-107. Ficker Recording Service, Old Greenwich, Connecticut.

54 species.

Note: for combined edition see 44 below.

26. Kellogg, P.P. and A.A. Allen. 1954. *American Bird Songs, Vol. 2*. One 30cm 33 1/3 rpm disc. Cornell University Laboratory of Ornithology, Ithaca, New York.†

51 species.

Note: LP edition of 16 above.

27. Bramble, C. c.1954. *Genuine Wild Geese Calling*. One 17.5cm 45 rpm disc. Lewis Record Company, Cambridge, Maryland.

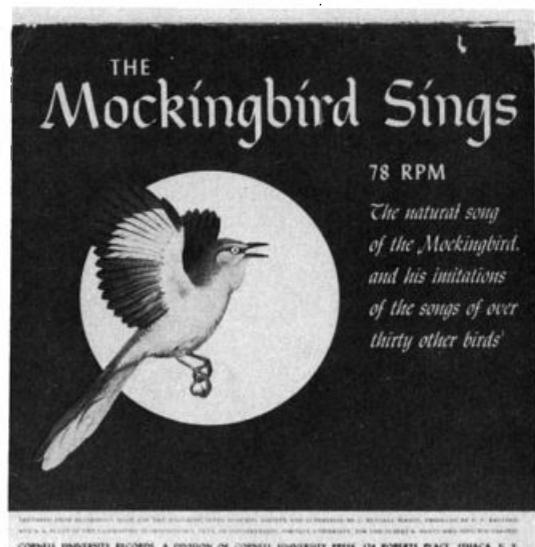
1 species.

28. Bogart, C.M. 1954. *Sounds of the American Southwest*. One 30cm 33 1/3 rpm disc, Folkways FX 6122 (originally FPX 122), and brochure. Folkways Records, New York.

12 species, plus 10 amphibians, 6 reptiles, 3 mammals and 2 insects.

29. Mason, C.R., P.P. Kellogg, and A.A. Allen. 1954. *The Mockingbird Sings*. One 25cm 78 rpm disc. Cornell University Laboratory of Ornithology, Ithaca, New York.

1 species (imitates 32 species).



30. Fish, W.R. 1954. *Western Bird Songs*. One 25cm 78 rpm disc. Cornell University Laboratory of Ornithology, Ithaca, New York.

10 species.

31. Gunn, W.W.H. 1954. *Representative Songs of 25 Common Songbirds of Ontario*. One 25cm 33 $\frac{1}{3}$  rpm disc. Federation of Ontario Naturalists, Don Mills, Ontario.

25 species.

Note: for further editions see 35 and 48 below.

32. Allen, A.A. and P.P. Kellogg. 1954. *Songbirds of America in Color, Sound and Story*. One 25cm 33 $\frac{1}{3}$  rpm disc, and book, 28pp. Book Records Inc., New York.

24 species.

Note: for a later edition see 63 below.

33. Lynch, M.L. c.1955. (a) *Record for Calling Coon* (actually crippled bird's call); (b) *Record for Calling Quail*; (c) *Record for Calling Duck*; (d) *Record for Calling Geese*. Four 17.5cm 45 rpm discs, 300, 700, 800 and 900. M.L. Lynch Company, P.O. Box 377, Liberty, Mississippi 39645.

c.4 species.

34. Kellogg, P.P. and A.A. Allen. 1955. *American Bird Songs, Vol. 1*. One 30cm 33 $\frac{1}{3}$  rpm disc. Cornell University Laboratory of Ornithology, Ithaca, New York.†

60 species.

Note: revised edition of 13 above.

35. Gunn, W.W.H. 1955a. *Songs of Spring—25 Common Songbirds of Ontario*. Sounds of Nature, Vol. 1. One 25cm 33 $\frac{1}{3}$  rpm disc. Federation of Ontario Naturalists, Don Mills, Ontario.

25 species.

Note: second edition of 31 above; for further revision see 48 below.

36. Gunn, W.W.H. 1955b. *A Day in Algonquin Park*. Sounds of Nature, Vol. 2. One 30cm 33 $\frac{1}{3}$  rpm disc. Federation of Ontario Naturalists, Don Mills, Ontario.

21 species, plus 3 amphibians, 2 insects and 1 mammal.

Note: for further edition, see 49 below.

37. Stillwell, J. and N. Stillwell. 1956a. *Western Bird Songs of Dooryard, Field and Forest, No. 3*. One 30cm 33 $\frac{1}{3}$  rpm disc, C-109. Ficker Recording Service, Old Greenwich, Connecticut.

68 species.

Note: for combined edition see 44 below.

38. Stillwell, J. and N. Stillwell. 1956b. *The Book of Songbirds*. One 17.5cm 33 $\frac{1}{3}$  rpm disc, with book, 42pp. by L.A. Housman. Grosset and Dunlap, New York.

24 species.

Note: disc first published in 1953 to accompany a game.

39. Boyes, E. and A. Boyes. 1956. *Wild Bird Songs, Vol. 1*. One 30cm 33 $\frac{1}{3}$  rpm disc. E. and A. Boyes, 19164 Pennington Drive, Detroit, Michigan 48221.

51 species.

40. Anon. c.1957. (a) *Ducks (Black Ducks and Mallards)* and (b) *(Black Ducks, Mallards and Pintails)*; (c) *Crows (Feeding*

*and Riot Call)*, (d) *(Young and Nesting)* and (e) *(Fighting and Distress Calls)*; (f) *Geese*; (g) *Wild Turkeys*. Seven 17.5cm 45 rpm discs. D-101-2, C-100-102, G-200 and T-300. Animal Trap Company of America, Lititz, Pennsylvania.

6 species.

41. Fassett, J.H. 1957. *Symphony of the Birds (Musique Concrète)*. One 30cm 33 $\frac{1}{3}$  rpm disc, C-1002. Ficker Recording Service, Old Greenwich, Connecticut.

12 species.

Note: Recordings by J. and N. Stillwell.

42. Gunn, W.W.H. 1958. *Birds of the Forest*. Sounds of Nature, Vol. 3. One 30cm 33 $\frac{1}{3}$  rpm disc. Federation of Ontario Naturalists, Don Mills, Ontario.\*

22 species.

43. Kellogg, P.P. and A.A. Allen. 1958. *An Evening in Sapsucker Woods*. One 25cm 33 $\frac{1}{3}$  rpm disc. Cornell University Laboratory of Ornithology, Ithaca, New York.†

27 species, plus 5 amphibians.

44. Stillwell, J. and N. Stillwell. 1958. *The National Network of American Bird Songs*. Three 30cm 33 $\frac{1}{3}$  rpm discs, C101, C107 and C109. Ficker Recording Service, Old Greenwich, Connecticut.

c. 165 species.

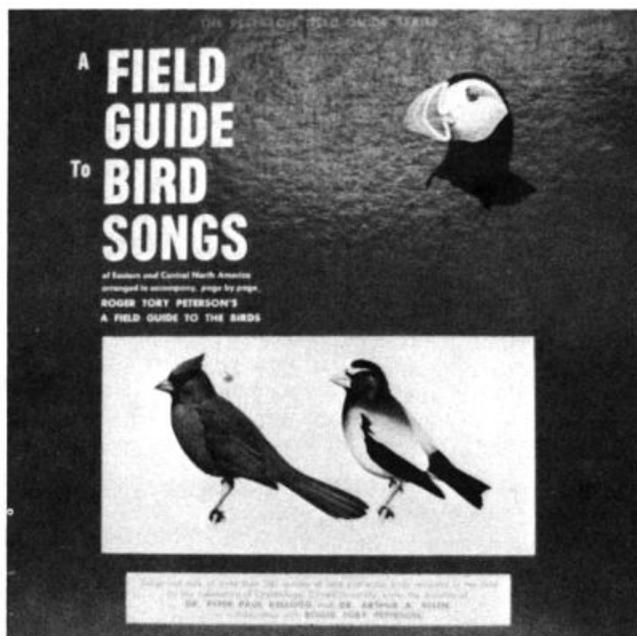
Note: a combined edition of 21, 25 and 37 above.

45. Trumbull, V., F. Trumbull et al. 1959. *Animal Language*. One 30cm 33 $\frac{1}{3}$  rpm disc, D-22. Sounds Unlimited, Los Altos, California.

20 species (including 4 captive), plus 14 mammals (some captive), 2 insects, 1 reptile and 1 amphibian.

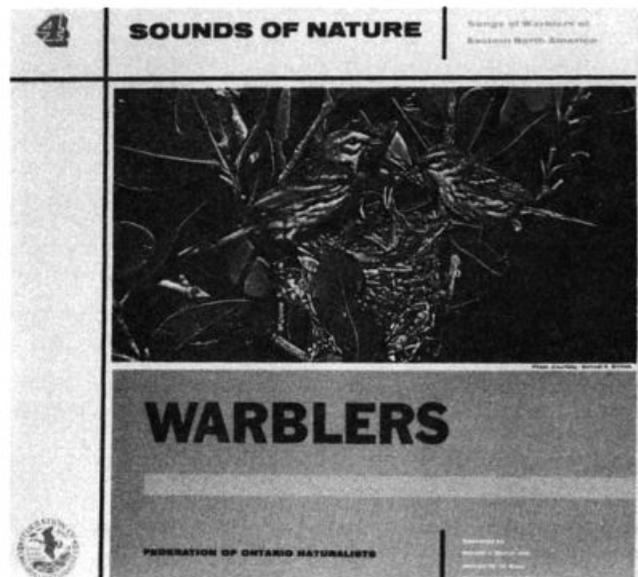
46. Kellogg, P.P. and A.A. Allen. 1959. *A Field Guide to Bird Songs of Eastern and Central North America*. Two 30cm 33 $\frac{1}{3}$  rpm discs. Also available as two cassettes. Houghton Mifflin Company, Boston, Massachusetts.\*†‡

c. 300 species.



47. Borror, D.J. and W.W.H. Gunn, 1959a. **Warblers**. Sounds of Nature, Vol. 4. One 30cm 33 $\frac{1}{3}$  rpm disc. Federation of Ontario Naturalists, Don Mills, Ontario. \*‡

38 species.



48. Gunn, W.W.H. 1959b. **Songs of Spring**. Sounds of Nature, Vol. 1. One 30cm 33 $\frac{1}{3}$  rpm disc. Federation of Ontario Naturalists, Don Mills, Ontario.\*‡

25 species.

Note: third edition of 31 above; for second edition see 35 above.

49. Gunn, W.W.H. 1959c. **A Day in Algonquin Park**. Sounds of Nature, Vol. 2. One 30cm 33 $\frac{1}{3}$  rpm disc. Federation of Ontario Naturalists, Don Mills, Ontario.\*‡

21 species, plus 2 amphibians, 2 insects and 1 mammal.

Note: Second edition of 36 above.

50. Anon. ? date. **The Sounds of Wildlife**. Two 17.5cm 33 $\frac{1}{3}$  rpm flimsy discs. A two-record offer from Outdoor Life Book Club, New York.

16 species.

51. Curnow, J.D. c.1960. **Wisconsin Song Birds**. One 17.5cm 45 rpm disc, J 6914. Biota Records, 551 Cedar Street, Richland Center, Wisconsin 53581.

28 species.

52. Borror, D.J. and W.W.H. Gunn. 1960. **Finches**. Sounds of Nature, Vol. 6. One 30cm 33 $\frac{1}{3}$  rpm disc. Federation of Ontario Naturalists, Don Mills, Ontario.\*‡

43 species.

53. Boyes, E. and A. Boyes. 1960. **Wild Bird Songs, Vol. 2**. One 30cm 33 $\frac{1}{3}$  rpm disc. E. and A. Boyes, 19164 Pennington Drive, Detroit, Michigan 48221.

37 species.

54. Frings, H. and M. Frings. 1960. **Sounds From the S.R.I. Journal**. One 17.5cm 33 $\frac{1}{3}$  rpm disc, published with first-quarter 1960 issue of the Stanford Research Institute Journal. Stanford Research Institute, California.

Includes 1 species, the Common Crow (*Corvus brachyrhynchos*).

55. Gilstrap, Z. 1960. **Sounds of Yosemite**. Adventures in the National Parks, No. 2. Format unknown. Gilstrap Records, San Francisco, California.

16 species, plus 2 mammals.

56. Kellogg, P.P. and A.A. Allen. 1960. **Dawn in a Duck Blind**. One 25cm 33 $\frac{1}{3}$  rpm disc. Cornell University Laboratory of Ornithology, Ithaca, New York.

c. 26 species.

Note: For further edition see 64 below.

57. Lanyon, W.E., W.N. Tavolga et al. 1960. **Animal Sounds and Communication**. One 30cm 33 $\frac{1}{3}$  rpm disc, with book, 443 pp. American Institute of Biological Sciences, Washington, D.C.

17 species (including domestic hen, *Gallus gallus*) plus 7 fishes, 6 insects and 5 amphibians (some captive).

58. Allen, A.A. and P.P. Kellogg, 1961. **Bird Songs in your Garden**. One 25cm 33 $\frac{1}{3}$  rpm disc, and book, 24 pp. Cornell University Laboratory of Ornithology, Ithaca, New York.†

25 species.

Note: Reissued 1963.

59. Ansley, H. and S. Ansley. 1961. **The Bird's World of Song**. One 30cm 33 $\frac{1}{3}$  rpm disc, Folkways FX 6115. Folkways Records, New York.

c. 25 species, plus 2 amphibians.

60. Gunn, W.W.H. 1962. **Prairie Spring**. Sounds of Nature, Vol. 7. One 30cm 33 $\frac{1}{3}$  rpm disc. Federation of Ontario Naturalists, Don Mills, Ontario.\*‡

64 species, plus 4 mammals.

61. Kellogg, P.P. 1962. **A Field Guide to Western Bird Songs**. Three 30cm 33 $\frac{1}{3}$  rpm discs, also published later as three cassettes. Houghton Mifflin Company, Boston, Massachusetts.\*†‡

515 species.

62. Anon. 1963. **Song of the Texas Mockingbird**. One 17.5cm 33 $\frac{1}{3}$  rpm disc, Panasonic Records MLP 763. Les Miller Enterprises, 3023 Hillcrest Drive, San Antonio 1, Texas.

1 species.

Note: Revised title *Mockingbird after Midnight*.

63. Allen, A.A. and P.P. Kellogg. 1963. **Songbirds of America in Color, Sound and Story**. One 25cm 33 $\frac{1}{3}$  rpm disc, and book, 28pp. Cornell University Laboratory of Ornithology, Ithaca, New York.†

24 species.

Note: revised edition of 32 above.

64. Kellogg, P.P. and A.A. Allen. 1963. **Dawn in a Duck Blind**. One 25cm 33 $\frac{1}{3}$  rpm disc, and book, 28pp. Cornell University Laboratory of Ornithology, Ithaca, New York.†

c.26 species.

Note: revised edition of 56 above.

65. Borror, D.J. and W.W.H. Gunn. 1963. **Thrushes, Wrens and Mocking Birds of Eastern North America**. Sounds of Nature, Vol. 8. One 30cm 33 $\frac{1}{3}$  rpm disc. Federation of Ontario Naturalists, Don Mills, Ontario.\*‡

17 species.

66. Kilham, P. 1963a. *Birds on a May Morning*. One 30cm 33½ rpm disc, DY-14. Droll Yankees Inc., Rhode Island.\*

36 species.

67. Kilham, P. 1963b. *Spring Morning*. One 17.5cm 33½ rpm disc, DY-M-1. Droll Yankees Inc., Rhode Island.

31 species.

Note: short edition of preceding disc.

68. Kilham, P. 1964a. *Songs of the Forest*. One 30cm 33½ rpm disc, DY-16. Droll Yankees Inc., Rhode Island.\*

13 species.

69. Kilham, P. 1964b. *The Swamp in June*. One 30cm 33½ rpm disc, DY-17. Droll Yankees Inc., Rhode Island.\*

At least 11 species, plus 3 amphibians, 1 mammal and some insects.

70. Kilham, P. 1964c. *The Brook*. One 17.5cm 33½ rpm disc, DY-M-2. Droll Yankees Inc., Rhode Island.

21 species, plus 2 insects, 1 amphibian and 1 mammal.

71. Kilham, P. 1964d. *Song Sparrow*. One 17.5cm 33½ rpm disc, DY-M-3. Droll Yankees, Inc., Rhode Island.

1 species, with 6 others in background.



72. Allen, A.A. and P.P. Kellogg. 1964. *Bird Songs of Garden, Woodland and Meadow*. An album of six 15cm 33½ rpm discs, with the book *Song and Garden Birds of North America*, 400 pp. National Geographic Society, 17th and M Streets N.W., Washington, D.C. 20036.

70 species.

73. Borror, D.J. 1964. *Bird Songs*. One 17.5cm 33½ rpm disc in descriptive folder. National Wildlife Federation, 1412-Sixteenth Street, N.W., Washington, D.C. 20036.

10 species.

74. Gibson, D. 1965. *Voices of the North Woods*. One 17.5cm 45 rpm disc, VNW 1. Dan Gibson Productions Ltd., Toronto, Ontario.†

5 species, plus 2 amphibians and 1 mammal.

75. Kellogg, P.P. 1965. *Bird Sounds of Marsh, Upland and Shore*. Six 15cm 33½ rpm discs in album with the book

*Water, Prey and Game Birds of North America*, 464pp. National Geographic Society, 17th and M Streets, N.W., Washington, D.C. 20036.

97 species.

76. Trumbull, F. and V. Trumbull. 1965. *A Sound Tour of the Arizona-Sonora Desert Museum*. One 17.5cm 33½ rpm disc, D-133. Sounds Unlimited, Los Altos, California.

17 species (13 captive), plus 12 mammals, 2 insects, 1 amphibian and 1 reptile.

77. Anon. 1965. *Hammond's Worlds of Birds*. The Hammond Talking Series. One 17.5cm 33½ rpm disc, accompanying a large folded chart. Hammond, 10 East 41st Street, New York, New York 10017.

11 species.

78. Gilbert, A. c.1965. *Canadian Goose—Authentic Calls*. One 17.5cm 45 rpm disc, EL-25-A. Elan Enr., 3 De la Colline, Bagotville, Province Quebec.

1 species.

79. Gilbert, A. c.1966. *The Crow—Authentic Calls*. One 17.5cm 45 rpm disc, EL-36-A. Elan Enr., 3 De la Colline, Bagotville, Province Quebec.

1 species.

80. Krutch, J.W. and P.P. Kellogg. 1967. *Bird Songs in Literature*. One 30cm 33½ rpm disc, and booklet, 8pp. Cornell University Laboratory of Ornithology, Ithaca, New York.\*†

c.35 species from North America, with poetry and prose readings.

81. Borror, D.J. 1967. *Common Bird Songs*. One 30cm 33½ rpm disc, Dover 21829-5, and booklet, 32pp. Dover Publications, Inc., New York.\*

60 species.

82. Greenewalt, C.H. 1968. *Bird Song: Acoustics and Physiology*. Two 17.5cm 33½ rpm discs, with book, 194pp. Smithsonian Institution Press, Washington, D.C.

63 species.

83. Gibson, D. 1968. *Land of the Loon*. One 30cm 33½ rpm disc, DGP 25. Dan Gibson Productions Ltd., Toronto, Ontario.†

c.22 species, plus 3 mammals and 1 amphibian.

84. Palmér, S. and J. Boswall. 1968. *A Field Guide to the Bird Songs of Britain and Europe*. One 30cm 33½ rpm disc, Sveriges Radio RFLP 5020. Swedish Broadcasting Corporation, Stockholm, Sweden.

1 species.

Note: An introductory record to the series, see also nos. 90, 106, 125 and 126 below.

85. Kilham, P. 1969a. *The Edge of the Meadow*. One 30cm 33½ rpm disc, DY-22. Droll Yankees Inc., Rhode Island.

17 species.

86. Kilham, P. 1969b. *Sapsuckers and Flickers*. One 17.5cm 33½ rpm disc, DY-M-4. Droll Yankees Inc., Rhode Island.\*

3 species.

87. Kilham, P. 1969c. *The Frog Pond*. One 30cm 33 $\frac{1}{3}$  rpm disc, DY-21. Droll Yankees Inc., Rhode Island.

2 species, plus 8 amphibians and 1 mammal.

88. Kellogg, P.P. 1969. *Florida Bird Songs*. One 17.5cm 33 $\frac{1}{3}$  rpm disc. Cornell University Laboratory of Ornithology, Ithaca, New York.

10 species.

Note: LP version of 17 above.

89. Morris, J. 1969. *Animal Magic*. One 30cm 33 $\frac{1}{3}$  rpm disc, BBC Roundabout 4. BBC Records, London, England.

3 (or 4) species from North America.

90. Palmér, S. and J. Boswall. 1969-72. *A Field Guide to the Bird Songs of Britain and Europe*. Twelve 30cm 33 $\frac{1}{3}$  rpm discs, Sveriges Radio RFLP 5001-12. Swedish Broadcasting Corporation, Stockholm, Sweden.

26 species from North America.

91. Anon. 1970. *Animal Sounds—Birds*. One 17.5cm 33 $\frac{1}{3}$  rpm disc, PC 045/6. Produced by Procaudio Ltd. for B.P.C. Publishing Ltd., London, England.

2 species from North America.

92. Anon. 1970a. *Common Birds—Group 1*. One 30cm 33 $\frac{1}{3}$  rpm disc, and 'Talking Picture-Story Study Print'. Society for Visual Education Inc., 1345 Diversey Parkway, Chicago, Illinois.

8 species.

93. Anon. 1970b. *Familiar Birds—Their Young and Nests*. One 30cm 33 $\frac{1}{3}$  rpm disc and 'Talking Picture-Story Study Print'. Society for Visual Education Inc., 1345 Diversey Parkway, Chicago, Illinois.

8 species.

94. Gibson, D. and W.W.H. Gunn. 1970. *Bird Songs of the Mountain Lake Sanctuary*. One 17.5cm 33 $\frac{1}{3}$  rpm stereo disc. Dan Gibson Productions Ltd., Toronto, Ontario. Available in U.S.A. from A-V Explorations Inc., 505 Delaware Avenue, Buffalo, New York 14202.

20 species.

95. Gibson, D. 1970. *Nature Sounds of North America*. Four 12.5cm 2-track 7.5 ips reels of tape, T-1 to T-4. Dan Gibson Productions Ltd., Toronto, Ontario. Available in U.S.A. from A-V Explorations Inc., 505 Delaware Avenue, Buffalo, New York 14202.†

56 species, plus 5 amphibians and 4 mammals.

Note: also published as cassettes, C-1 to C-4.

96. Borror, D.J. 1970. *Songs of Eastern Birds*. One 30cm 33 $\frac{1}{3}$  rpm disc, Dover 22378-7, and book, 32pp. Dover Publications Inc., New York.\*

60 species.

97. Borror, D.J. 1971. *Songs of Western Birds*. One 30cm 33 $\frac{1}{3}$  rpm disc, Dover 22765-0, and book, 32pp. Dover Publications Inc., New York.

60 species.

98. Kellogg, P.P. 1971. *Bird Songs of South Carolina*. One

17.5cm 33 $\frac{1}{3}$  rpm disc. Cornell University Laboratory of Ornithology, Ithaca, New York.

13 species.

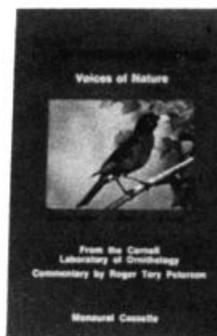
99. Kellogg, P.P. 1971. *Music From a Southern Swamp*. One 17.5cm 33 $\frac{1}{3}$  rpm flimsy disc, with *Audubon* November 1971, see pp. 60-61. National Audubon Society, New York.

15 species, plus 9 amphibians, 2 mammals and 1 reptile.

100. Anon. 1971. *Songs of North American Thrushes*. Voices of Nature, No. 1. One cassette. Cornell University Laboratory of Ornithology, Ithaca, New York.

11 species.

Note: the tape includes a species not listed in the printed notes, the Varied Thrush (*Ixoreus naevius*).



101. Simms, E. 1971. *Wildlife in Danger*. One 30cm 33 $\frac{1}{3}$  rpm disc, RED 55M. BBC Records, London, England.

Includes 10 species from North America.

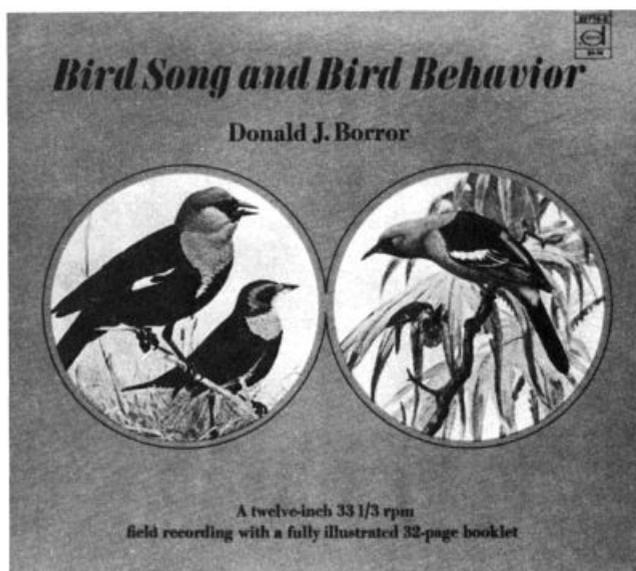
102. Bédard, J. 1972. *Guide Sonore des Oiseaux du Québec, Vol. 1*. One 30cm 33 $\frac{1}{3}$  rpm stereo disc, Z001. La Société Zoologique de Québec Inc., Québec City, Québec.

82 species.

Note: also published as a stereo tape cassette, ZO-5-1 and a stereo 8-track tape cartridge, ZO-8-1. All distributed by London Records of Canada Ltd.

103. Borror, D.J. 1972. *Bird Song and Bird Behavior*. One 30cm 33 $\frac{1}{3}$  rpm disc, Dover 22779-0, and booklet, 32pp. Dover Publications Inc., New York.†

48 species.



104. Gibson, D. et al. 1972. *Cries of the Wild*. One 30cm 33 $\frac{1}{3}$  rpm stereo disc. K.E.G. Productions Ltd., 556 Church Street, Toronto 5, Ontario.‡

25 species from North America, plus 6 amphibians and 1 mammal.

105. Englehard, L.V. 1972. *Songs of Caprimulgids and Cuckoos*. Voices of Nature, No. 2. One cassette. Cornell University Laboratory of Ornithology, Ithaca, New York.

12 species.

106. Palmér, S. and J. Boswall. 1973. *A Field Guide to the Bird Songs of Britain and Europe*. Two 30cm 33 $\frac{1}{3}$  rpm discs, Sveriges Radio RFLP 5013-14. Swedish Broadcasting Corporation, Stockholm, Sweden.

Includes 40 species from North America.

107. Anon. 1973. *Memories of the Old Mission San Juan Capistrano and The Swallows Return to Capistrano*. One 17.5cm 33 $\frac{1}{3}$  rpm disc, TAL-1. Trav-a-long Records, California.

1 species.

108. Gibson, D. 1975. *Natural Sounds of the Mountain Lake Sanctuary and Tiger Creek*. One 17.5cm 33 $\frac{1}{3}$  rpm stereo disc, QC 1169. Dan Gibson Productions Ltd., Toronto, Ontario. Obtainable from Mountain Lake Gift Shop, Box 882, Lake Wales, Florida 33853.

17 species, plus 8 amphibians and 1 mammal.

109. Gibson, D. 1976. *Trespass Vol. 1: Birds of Eastern North America*. One cassette. Dan Gibson Productions Ltd., Toronto, Ontario.

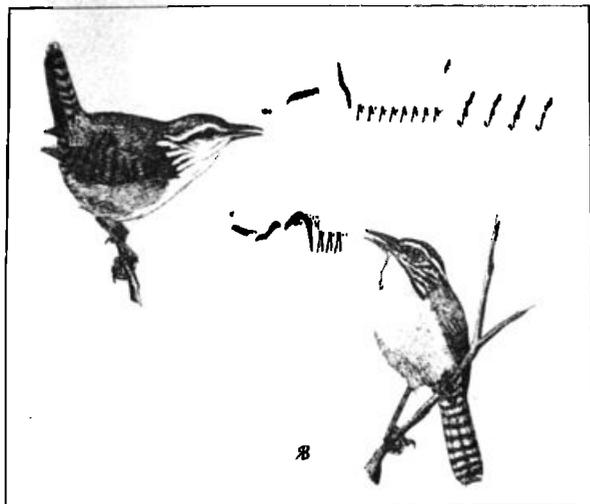
50 species.

Note: no further volumes were published.

110. Jellis, R. (ed.). 1977. *Bird Sounds and Their Meaning*. One 30cm 33 $\frac{1}{3}$  rpm disc, BBC OP 224. Complements book of same title, 256pp. BBC, London, England.

Includes 3 species from North America (2 captive).

**THE WRENS:** A guided tour of the voices of over 40 species in perhaps the ultimate songbird family ARA-2  
by John William Hardy



featuring recordings by BEN B. COFFEY JR. and others by Charles Hartshorne. Paul

111. Wolf, L., and J.W. Hardy. 1977. *Species Relationships in the Avian Genus Aimophila*. One 30cm 33 $\frac{1}{3}$  rpm disc, accompanies monograph, same title, 220pp. American Ornithologists' Union. Obtainable from Glen E. Woolfenden, Assistant to the Treasurer, A.O.U., Department of Biology, University of South Florida, Tampa, Florida 33620.

12 species.

112. Hardy, J.W. and B.B. Coffey, Jr. 1977. *The Wrens*. One 30cm 33 $\frac{1}{3}$  rpm disc, ARA 2. ARA Records, Gainesville, Florida.

c.8 species from North America.

113. Roché, J. *Oiseaux du Canada*. One 30cm 33 $\frac{1}{3}$  rpm stereo disc, Telson AEB 3502. Les Productions Frank Henry Inc.

33 species, plus 1 mammal.

Note: originally published in 1976 by L'Oiseau Musicien, Edwards Records, 58 rue du Docteur Calmette, Sequedin, 59320, Habourdin, France.

114. Gunn, W.W.H., and J.L. Gulledge, 1977. *Beautiful Bird Songs of the World*. Two 30cm 33 $\frac{1}{3}$  rpm discs, NAS 1000, and booklet, 12pp. Cornell University Laboratory of Ornithology, Ithaca, New York and National Audubon Society, New York.

Includes 7 species from North America.



115. National Audubon Society Staff. 1977. *Audible Audubon*. Three sets of 5cm microdiscs on cards 12.7 x 6.9cm, plus battery operated microdisc player. National Audubon Society, New York.

83 species.

116. Gibson, D., 1978. *Sounds of Algonquin*. One 17.5cm 33 $\frac{1}{3}$  rpm stereo disc, QCS 1415. Dan Gibson Productions Ltd., Toronto, Ontario.‡

7 species, plus 3 amphibians and 2 mammals.

117. Grimes, S.A. 1979. *The Vocally Versatile Mockingbird*. One 30cm 33 $\frac{1}{3}$  rpm disc, DY 23. Droll Yankees Inc., Rhode Island.

1 species (imitates 86 species).

118. Brigham, F.M. 1979. *The Songs of the Seasons*. One 30cm 33 $\frac{1}{3}$  rpm stereo disc, WRC1-703. The Ottawa Field-

Naturalists' Club. Obtainable from R.M.P. Wildlife Recordings, P.O. Box 70, R.R.1, Manotick, Ontario KOA 2NO.

54 species, plus 4 amphibians and 1 insect.

119. Hardy, J.W. 1979. *Sounds of Florida's Birds*. One 30cm 33 $\frac{1}{3}$  rpm disc, ARA-5. ARA Records, Gainesville, Florida.

86 species.

Note: the disc includes a species not listed on the label, the Red-bellied Woodpecker (*Melanerpes carolinus*). The Dusky Seaside Sparrow (*Ammodramus maritima nigrescens*) is now extinct in the wild.

120. Brigham, F.M., J. Dubois, and C. Daboll. 1980. *Pelee Spring: Nature Sounds of Canada's Point Pelee National Park*. One 30cm 33 $\frac{1}{3}$  rpm disc, WRC1-1009. R.M.P. Wildlife Recordings, P.O. Box 70, R.R.1, Manotick, Ontario KOA 2NO.

48 species, plus 4 amphibians and 1 insect.

121. Borrer, D.J. and M.L. Glitz. 1980. *Florida Bird Songs*. One 30cm 33 $\frac{1}{3}$  rpm disc, Dover 23956-X, and booklet, 32pp. Dover Publications Inc., New York.

59 species.

122. Coffey, B.B., J.W. Hardy et al. 1980. *Voices of New World Nightbirds: Owls, Nightjars and Their Allies*. One 30cm 33 $\frac{1}{3}$  rpm disc, ARA-6. ARA Records, Gainesville, Florida.

c 20 species from North America.

Note: a very few sleeves refer to a species not found on the disc, the Long-tailed Potoo (*Nyctibius aethereus*).

123. Barklow, W. 1980. *Voices of the Loon*. One 30cm 33 $\frac{1}{3}$  rpm disc, NAS-1001. National Audubon Society, New York and North American Loon Fund, Meredith, New Hampshire 03253.

3 species, plus 1 mammal.

124. Kellogg, P.P. and A.A. Allen. 1980. *An Anthology of Over 200 American Bird Songs*. Three 30cm 33 $\frac{1}{3}$  rpm discs, Olympic M 54319. Olympic Records Corporation, and Cornell University Laboratory of Ornithology, Ithaca, New York.

134 species, plus 5 amphibians.

Note: a composite reissue of 13, 17, 43 and 56 above.

125. Palmér, S. and J. Boswall. 1981. *A Field Guide to the Bird Songs of Britain and Europe*. One 30cm 33 $\frac{1}{3}$  rpm disc, Sveriges Radio RFLP 5015. Swedish Broadcasting Corporation, Stockholm, Sweden.

21 species from North America.

126. Palmér, S. and J. Boswall. 1981. *A Field Guide to the Bird Songs of Britain and Europe*. Four 4-cassette sets (stereo), Sveriges Radio SRMK 5021-4, 5025-8, 5029-32, 5033-6. Swedish Broadcasting Corporation, Stockholm, Sweden.

95 species from North America.

Note: a completely revised edition of nos. 90, 106 and 125 above.

127. Gibson, D. 1981. *Solitudes: Environmental Sound Experiences, Vols. 1-6*. Six 30cm 33 $\frac{1}{3}$  rpm stereo discs, DG-

81001-03 and DG-82004-06 Dan Gibson Productions Ltd, Toronto, Ontario.

c.80 species, plus 5 mammals, 5 amphibians and some insects.

128. Barlow, J.C., and J.W. Hardy. 1982. *Songs of the Vireos and Their Allies: Family Vireonidae, Vireos, Peppershrikes, Shrike-vireos, and Greenlets*. Two 30cm 33 $\frac{1}{3}$  rpm discs, ARA-7. ARA Records, Gainesville, Florida.

39 species.

129. Myers, J.P. 1982. *Nuptial Vocalizations of the Promiscuous Pectoral Sandpiper*. One 15cm 33 $\frac{1}{3}$  rpm flimsy disc, accompanies article 'The Promiscuous Pectoral Sandpiper' by same author, in *American Birds* 36: 2 pp. 119-122. Article and disc are available separately from *American Birds*, National Audubon Society, New York.

1 species.

130. Brigham, F.M. 1982. *Algonquin Park: Wildlife Sounds from Ontario's Famous Park*. One 30cm 33 $\frac{1}{3}$  rpm stereo disc, WRC1-2084. R.M.P. Wildlife Recordings, P.O. Box 70, R.R.1, Manotick, Ontario, KOA 2NO.

28 species, plus 4 amphibians and 3 mammals.

131. Hardy, J.W. and V.M. McDonald. 1982. *Examples of Primary Song of Various Populations of Seaside Sparrows and Vocalizations of a Marked Population of Seaside Sparrows*. One 17.5cm 33 $\frac{1}{3}$  rpm flimsy disc supplementing the Proceedings of the Symposium on the Biology of the Seaside Sparrow. North Carolina Biological Survey.

1 species, several races.

132. Hardy, J.W. 1982. *Sounds of Purple Martins*. One 30cm 33 $\frac{1}{3}$  rpm disc, ARA-8. ARA Records, Gainesville, Florida

1 species.

133. Borrer, D.J. and W.W.H. Gunn. In preparation. *Songs of the North American Warblers (Parulidae)*. Two 30cm 33 $\frac{1}{3}$  rpm discs, and booklet. Federation of Ontario Naturalists, Don Mills, Ontario.

52 species.

134. Gunn, W.W.H. In preparation. *Sounds of Birds of North America: Shorebirds*. One or two 30cm 33 $\frac{1}{3}$  rpm discs. Cornell University Laboratory of Ornithology, Ithaca, New York.

? species.

135. ? In preparation. *A Field Guide to Bird Songs of Eastern and Central North America*. One or two 30cm 33 $\frac{1}{3}$  rpm discs. Houghton Mifflin Company, Boston, Massachusetts.\*

? species.

Note: a completely new production of 46 above.

136. ? In preparation. *A Sound Guide to the Birds of North America*. Format unknown. Accompanies *Guide to the Birds of North America* (National Geographic Society, in prep.)

c.200 species.

**b. WILD BIRDS RECORDED IN ADDITIONAL FUTURE A.O.U. AREAS**

THE SIXTH EDITION of the A O U. *Check-list* will include the following extra regions. Middle America from Mexico southwards to the Panama/Colombia border, all of the Caribbean islands south to Grenada, and Hawaii. The following list is of publications that include species recorded in the additional areas, except those already included in the main discography. Readers particularly interested in these new areas should also consult the following entries in the main discography: 46, 61, 76, 105, 111, 112, 114, 122, 128.

137. Kellogg, P.P. and A.A. Allen. 1950. *Jungle Sounds*. One 30cm 78 rpm disc, Comstock Publishing Company Inc., Ithaca, New York.

11 species, plus 7 amphibians and 1 mammal. (Panama.)

138. Asch, M. and F. Ramsay, Jr. 1952. *Sounds of a Tropical Rain Forest in America*. One 30cm 33 $\frac{1}{3}$  rpm disc, Folkways FX6120 (originally FPX120). Produced for the American Museum of Natural History by Folkways Records, New York.

c.22 species (some captive), plus c.6 amphibians, 1 mammal and a few insects. (Panama.)

139. Ward, J. and W. Ward. 1952. *Hawaiian Bird Songs*. One 25cm 78 rpm disc, CH 965-6. B.P. Bishop Museum, Honolulu.

10 species.

140. Davis, L.I. 1958. *Mexican Bird Songs*. One 30cm 33 $\frac{1}{3}$  rpm disc. Cornell University Laboratory of Ornithology, Ithaca, New York.†

74 species.

141. Frings, H., M. Frings, K. Frings, and H.F. Little. 1959. *Sounds of Midway*. One 30cm 33 $\frac{1}{3}$  rpm disc, JB 2808. Post Exchange, Midway Island.

2 species. (Midway Island, Hawaii.)

142. Reynard, G.B. 1969. *Caribbean Bird Songs*. One 30cm 33 $\frac{1}{3}$  rpm disc. Cornell University Laboratory of Ornithology, Ithaca, New York.

54 species. (Puerto Rico.)

143. Roché, J-C. 1970. *L'Oiseau Musicien, No. 7: Rufous-throated Solitaire and Bare-eyed Thrush*. One 17.5cm 45 rpm disc, L'Oiseau Musicien P 039. L'Oiseau Musicien, Edwards Records, 58 rue du Docteur Calmette, Sequedin, 59320 Habourdin, France.

2 species. (Martinique and Grenada.)

144. Roché, J-C. 1971. *Birds of the West Indies, No. 1: The Lesser Antilles, from Grenada to Guadeloupe*. One 30cm 33 $\frac{1}{3}$  rpm disc, L'Oiseau Musicien G 06. L'Oiseau Musicien, Edwards Records, 58 rue du Docteur Calmette, Sequedin, 59320 Habourdin, France.

c.13 species, plus 4 insects and 3 amphibians.

145. Coffey, B.B. Jr. and E.P. Edwards 1972. *Songs of Mexican Birds*. One 8cm reel of 7.5 ips tape. Ben B. Coffey, 672 N. Belvedere, Memphis, Tennessee 38107.

c.24 species, plus 1 mammal and 1 amphibian.

146. Hardy, J.W. 1975. *Voices of Neotropical Birds*. One

30cm 33 $\frac{1}{3}$  rpm disc, ARA 1. ARA Records, Gainesville, Florida.

c.60 species. (Many from Central America.)

147. Merrick, W. c.1979. *Sounds of the Jungle*. One cassette. Panajachel, Guatemala. Obtainable from Petersen Book Company, P.O. Box 966, Davenport, Iowa 52805.

42 species, plus 5 mammals. (Guatemala.)

148. Reynard, G.B. 1981. *Bird Songs in the Dominican Republic. Cantos de Aves en la República Dominicana*. Two 30cm 33 $\frac{1}{3}$  rpm discs. Cornell University Laboratory of Ornithology, Ithaca, New York.

100 species.

148a. Hardy, J.W. 1982. *Two rare bird songs from tropical America*. One 15cm 33 $\frac{1}{3}$  rpm flimsy disc, accompanies this discography in *American Birds*, 33:6 pp. 924-943. Discography and disc available separately from *American Birds* National Audubon Society, New York.

2 species.

149. Reynard, G.B. In preparation. *Bird Songs in Cuba*.

150. Reynard, G.B. and R. Sutton. In preparation. *Bird Songs in Jamaica*.

#### c. CAPTIVE BIRDS RECORDED IN NORTH AMERICA

THIS SECTION LISTS publications dealing only with captive birds. Several productions include both captive and wild birds and these have been placed in the wild bird recordings section for preference. They are nos. 45, 57, 76 and 110 from the current A.O.U. area section and no. 138 from the additional future A.O.U. areas section. Provided the entry is published in North America, it is included here regardless of whether the birds are North American. Recordings of captive North American birds made and/or published outside North America are not included here. For the few that are, see Couzens and Mehta (in prep.).

151. Anon. 1953. *Parakeet Lessons*. One 25cm 33 $\frac{1}{3}$  rpm disc, LPA-1. Dauntless International, New York.

1 species.

152. Anon. c.1953. *Golden Voiced Canaries*. One 25cm 33 $\frac{1}{3}$  rpm disc, DL 5394. Decca.

1 species.

153. Collias, N. and A.H. Greenhall. 1954. *Sounds of Animals*. One 30cm 33 $\frac{1}{3}$  rpm disc, Folkways FX 6124 (originally FPX 124). Folkways Records, New York.

2 species, the domestic hen and the Rhea (*Rhea americana*).

Note: see Collias and Joos (1953).

154. Lynch, M.L. c.1955. *Lynch's Varmint Call Record—Wild Cats, Fox, Coon, Coyote, Wolves, Hawks, etc.* (actually bantam rooster crows). One 17.5cm 45 rpm disc, 975. M.L. Lynch Company, P.O. Box 377, Liberty, Mississippi 39645.

c.1 species.

155. Anon. c.1955 *Parakeet Lessons: Salty Sailor and Romantic Phrases*. One 25cm 33⅓ rpm disc, Parakeet P6.

1 species.

#### d. BIRDS RECORDED IN NORTH AMERICA MIXED WITH HUMAN MUSIC

THIS SECTION PRESENTS publications on which the recording of a living bird is mixed with human music.

156. Anon. 1930. *The Golden Bird*. One 25cm 78 rpm disc, Brunswick 4880. Brunswick (Decca).

1 species, the Canary (*Serinus canaria*).

Note: originally issued by Warner-Brunswick Ltd.

156a. (Anon. Before 1938. *O Sole Mio* and *The Alp Maid's Dream*. One 25cm 78 rpm disc. Brunswick A.8.1001.

1 species, the Canary.

Note. the number given is French; the disc may not have been published in America.)

#### e. RADIOPHONIC MUSIC BASED ON BIRD SOUND

THIS SECTION CITES the one bird sound publication so far devoted to radiophonic music (otherwise known as musique concrète) which uses recorded bird sounds in intact or (more usually) modified form to create musical works to the exclusion of any sound from conventional musical instruments.

157. Fassett, J.H. 1957. *Symphony of the Birds (Musique Concrète)*. One 30cm 33⅓ rpm disc, C-1002. Ficker Recording Service, Old Greenwich, Connecticut.

12 species.

Note: recordings by J. and N. Stillwell.

#### f. HUMAN IMITATIONS OF BIRDS PUBLISHED IN NORTH AMERICA

THERE HAVE BEEN MANY records of bird mimicry published in North America, most of which were made for pure entertainment. For a wider treatment, which includes these, see Copeland and Boswall (in press). The following list is only a selection, citing publications thought to have been produced with scientific, educational or hunting aims.

158. Clark, W. M. 1895 or 1896. *Whistling Mocking Bird*. One 17.5cm 70? rpm disc, Berliner 403.

1 species.

159. Clark, W.M. c.1896. *Imitations of Birds etc.* One 17.5cm 78? rpm disc, Berliner 428.

? species.

160. Kellog, C. c.1915. *Songs of our Native Birds, Parts 1 and 2*. One 30cm 78 rpm disc, Victor 55049.

20 species.

Note: for electric replacement see 168 below.

161. Gorst, C.C. 1915a. *Bird Imitations, Whistling and Ex-*

*planatory Talk on Bird Imitations*. One 25cm 80 rpm disc, Edison Diamond Disc 50276.

? species.

162. Gorst, C.C. 1915b. *Songs and Calls of Our Native Birds, Nos. 3 and 4*. One 25cm 78 rpm disc, Victor 17735.

13 species.

163. Avis, E. 1919. *Bird Calls, Parts 1 and 2*. One 25cm 80 rpm disc, Columbia A 2832.

? species.

164. Avis, E. 1919. *Bird Calls—Bird Memories and Bird Calls—An Evening in Birdland*. One 25cm 80 rpm disc, Columbia A 2860.

10 species, plus 1 insect.

165. Kellog, C. c.1920. *How the Birds Sing and The Bird Chorus*. One 25cm 78 rpm disc, Victor 45163.

? species.

166. Avis, E. 1920. *A Day with the Birds and Spring Birds*. One 25cm 80 rpm disc, Columbia A 3118.

? species.

167. Avis, E. 1920. *The Birds' Morning Concert and The Birds' Evening Concert*. One 25cm 80 rpm disc, Columbia 445D.

? species.

168. Kellog, C. c.1926. *Songs of Our Native Birds—No. 1 and No. 2*. One 30cm 78 rpm disc, Victor 35785.

20 species.

Note: electric replacement for 160 above.

169. Avis, E. 1929. *Bird Songs*. Two 25cm 78 rpm discs, Columbia Personal Record 104-P.

c.30 species.

170. Miller, L.H. 1940. *Music in Nature*. Four 30cm 78 rpm discs. Cooper Ornithological Society, Department of Zoology, University of California, Los Angeles, California 90024.

c.40 species, plus 3 mammals, 2 amphibians and 1 insect.

Note: for LP reissue see 176 below.

171. Hofmeister, R. and R. Miller. 1947. *Duck and Goose Calling*. One 17.5cm disc. Herters Inc., Minnesota.

c.2 species.

Note: the original recording would have been on a 78 rpm disc; it was re-published in 1957 with speed at 45 rpm.

172. Anon. c.1950. *Olt's Instruction Records*. Nine 17.5cm 45 rpm discs, five featuring birds. Philip S. Olt Company.

7 species.

173. Lynch, M.L. c.1952. *Lynch's Turkey Call Instruction Record*. One 17.5cm 45 rpm disc. M.L. Lynch Company, P.O. Box 377, Liberty, Mississippi 39645.

1 species.

174. Lynch, M.L. c.1953. *Record for Calling Turkey*. One

17.5cm 45 rpm disc, 200 M.L. Lynch Company, P O Box 377, Liberty, Mississippi 39645.

1 species.

175. Weyer, E.M. 1955. *Music from the Mato Grosso*. One 30cm 33 $\frac{1}{3}$  rpm disc, Folkways FE 4446. Folkways Records, New York.

4 species, plus 5 mammals.

176. Miller, L.H. c.1960. *Music in Nature*. One 30cm 33 $\frac{1}{3}$  rpm disc. Cooper Ornithological Society, Department of Zoology, University of California, Los Angeles, California 90024.

c.40 species, plus 3 mammals, 2 amphibians and 1 insect. Note: LP version of 170 above.

177. Lohman, J. c.1960. *Fundamentals of Duck Calling*. One 17.5cm 45 rpm disc, R-52. Lohman Manufacturing Company, Inc., Neosho, Missouri.

? species.

178. Clay, J. 1976. *Mastering the Mouth Yelper*. One cassette. Perfection Diaphragm Turkey Calls Inc.

2 species.

179. ? N. c.1977. *Basic Hunting Methods: Calls and Calling*. One cassette. The Gobbler Shop.

1 species.

180. Kirby, D. and 'Doc' Pelham. c.1978. *Talking Turkey: Basic Calling Instructions; Competition Calling; Actual Spring Hunt*. One cassette. Quaker Boy Turkey Calls.

1 species.

181. Harper W. c.1978. *Goose Calling*. One cassette, C-50. Lohman Manufacturing Company Inc., Neosho, Missouri.

3 species.

182. Harper, W. c.1978. *Duck Calling*. One cassette, C-51. Lohman Manufacturing Company Inc., Neosho, Missouri.

c.5 species.

183. Harper, W. c.1978. *Turkey Calling*. One cassette, C-53. Lohman Manufacturing Company Inc., Neosho, Missouri.

1 species.

184. Harper, W. c.1978. *Owl Hooting*. One cassette, C-55. Lohman Manufacturing Company Inc., Neosho, Missouri.

1 species.

185. Kirby, D. c.1979. *Talkin' to Spring Gobblers*. One cassette. Quaker Boy Turkey Calls.

1 species.

186. Stowe, L. c.1981. *Stowe-Away Instruction Tape*. One cassette. Stowe-Away Turkey Callers.

1 species.

187. Anon. c.1981. *Instructional Cassette Tape*. One cassette. Cedar Hill Turkey Company, Louisiana.

1 species.

188. Anon. In preparation *Olt's Instruction Cassettes*. Four cassettes, three featuring birds. Philip S. Olt Company

3 species.

#### f. ADDRESSES OF PUBLISHERS

ARA Records, 1615 N.W.14th Avenue, Gainesville, Florida 32605  
Houghton Mifflin Company, 2 Park Street, Boston, Massachusetts 02107

British Broadcasting Corporation, 35 Marylebone High Street, London W1M 4AA, England

Cornell University Laboratory of Ornithology, 159 Sapsucker Woods Road, Ithaca, New York 14850

Dan Gibson Productions Ltd., P.O. Box 1200, Station Z, Toronto, Ontario M5N 2Z7

Dover Publications Inc., 180 Varick Street, New York, New York 10014

Droll Yankees Inc., Mill Road, Foster, Rhode Island 02825

Federation of Ontario Naturalists, 1262 Don Mills Road, Don Mills, Ontario M3B 2W8

Ficker Recording Service, 430 Arcadia Road, Old Greenwich, Connecticut

Folkways Records and Service Corporation, 43 W.61st Street, New York, New York 10023

Lohman Manufacturing Company Inc., P.O. Box 220, Neosho, Missouri 64850

National Audubon Society, 950 Third Avenue, New York, New York 10022

Nature Canada Bookshop, B10-75 Albert Street, Ottawa, Ontario K1P 6G1

Swedish Broadcasting Corporation, Stockholm 105 10, Sweden

#### V HUMAN MUSIC INSPIRED BY BIRDS

FOR THE SAKE OF completeness, mention has to be made of human music inspired by birds. This subject has been treated by Dearling, Dearling and Rust (1981), Fisher (1966), Howes (1964), Roberts (1966) and Scholes (1955) but for a singularly scholarly treatment see Hall-Craggs and Jellis (in press).

#### VI SELECT WORLD BIBLIOGRAPHY OF BIRD SOUND DISCOGRAPHIES

THIS IS A SELECTIVE LIST. For more complete coverage see Boswall (1974 and 1979b).

##### WORLD

PARENT, G.H. 1971. Discographie zoologique critique. *Aves* 8(3, 4 and 5): 69-152. Also published separately.

———. 1976. Discographie zoologique critique II. *Aves* 13 1-228.

##### AMERICAS

HANNA, D.G. 1972. An avian discography of the Americas with species index. Unpublished manuscript, 119pp. Copies deposited at the Library of Natural Sounds, Cornell University, U S A , at the British Library of Wildlife Sounds, London, England, and at the British Broadcasting Corporation, Bristol, England.

##### PALEARCTIC

BOSWALL, J. 1964. A discography of Palearctic bird sound recordings. *Brit. Birds* 57: special supplement. ● ———. 1966. New Palearctic bird sound recordings in 1964-65. *Brit. Birds* 59: 27-37. ● ———. 1969. New Palearctic bird sound recordings during 1966-67. *Brit. Birds* 62: 49-65. ● ———. 1969. New Palearctic bird sound recordings during 1968. *Brit. Birds* 62

271-281 • ———. 1970. New Palearctic bird sound recordings during 1969. *Brit. Birds* 63: 324-332. • ———. 1971. New Palearctic bird sound recordings during 1970. *Brit. Birds* 64: 431-434. • ———, KETTLE, R., W. THIEDE, and U. THIEDE. 1978. Palearctic bird sound recordings, 1976-78. *Rec. Sound* 72: 830-838. • ———, ———, ———, ———, and K. HAZEVOET. 1982. Palearctic bird sound recordings, 1979-80. *Rec. Sound* 81: 41-56. • SELLAR, P. 1973. New Palearctic bird sound recordings during 1971-72. *Brit. Birds* 66: 303-310. • ———, BOSWALL, J. and R. KETTLE. 1977. Palearctic bird sound recordings, 1973-75. *Brit. Birds* 70: 530-539.

### NEOTROPICAL

BOSWALL, J. and W.P. FREEMAN. 1974. A Discography of bird sound from the Neotropical region. *Bull. Br. Orn. Cl.* 94: 73-76 • ———, and KETTLE R. 1980. Additions to a discography of bird sound from the Neotropical region. *Bull. Br. Orn. Cl.* 100:235-237.

### AFRO-TROPICAL

BOSWALL, J. In preparation. Further additions to a discography of bird sound from the Afro-tropical (Ethiopian) zoogeographical region. • ———, and R. KETTLE. 1975. A discography of bird sound from the Ethiopian zoogeographical region. *Rec. Sound* 59: 460-463. • ———, ———. 1979. Additions to a discography of bird sound from the Ethiopian zoogeographical region. *Rec. Sound* 74-75: 73. • CHAPPUIS, C. 1980. List of sound-recorded Ethiopian (Afro-tropical) birds. *Malimbus* 2: 1-15, 82-98.

### ORIENTAL

BOSWALL, J. 1973. A discography of sound from the Oriental zoogeographical region. *Bull. Br. Orn. Cl.* 93: 170-173. • ———, and W. DICKSON. 1980. Additions to a discography of bird sound from the Oriental zoogeographical region. *Bull. Br. Orn. Cl.* 101: 313-318.

### AUSTRALASIAN

BOSWALL, J. 1965. A catalogue of tape and gramophone records of Australasian region bird sound. *Emu* 65: 65-74. • ———. 1981. Second supplement to a catalogue of Australasian bird sound. *Emu* 81: 223-226. • ———, and R. KETTLE. 1975. A supplement to a catalogue of tape and gramophone records of Australasian bird sound. *Emu* 75: 143-146. • McPHERSON, L.B. 1974. Field recordings of natural sounds with a New Zealand bird discography. *Notornis* 21: 337-348.

### ANTARCTIC

BOSWALL, J. 1981. Supplement to a discography of bird sound from the Antarctic. *Polar Rec.* 20: 371-373. • ———, and R.J. PRYTHERCH. 1969. A discography of bird sound from the Antarctic. *Polar Rec.* 14: 603-612.

## VII NORTH AMERICAN INSTITUTIONALIZED BIRD SOUND COLLECTIONS

THE ENTRIES in this and the next list provide the following information: a) name of the collection; b) address where the collection is held with telephone number (in North America); c) number of recordings of birds (world) held by collection; d) number of species represented from 1) World, 2) 'North America' by A.O.U. Check-list, 5th edition and 3) new regions of 'North America' by A.O.U. Check-list, 6th edition; e) summary of other classes of animals in the collection; f) zoogeographical region or regions best represented;

g) special additional features (sometimes), h) person or persons in charge of the collection; i) catalog, if any. Many of these libraries hold copies of private recordings under an agreement which forbids their use for commercial purposes without permission from the recordist. Furthermore, financial terms for their use have to be negotiated with the recordist or copyright holder, the library, therefore, often serving only to put the would-be user in touch with recordists who will themselves supply the copy recordings.

The world list is a selection only. For further information see Boswall and Kettle (1979) and Sellar (1979). These lists may be compared with those of Banks, Clench and Barlow (1973) and supplement (Clench, Banks and Barlow, 1976) which deal with North American collections of bird skins, skeletons, eggs and nests.

The Bioacoustic Archives, Florida State Museum, University of Florida, Gainesville, Florida 32611. Tel. 904 392-1721. 5000 recordings of 1) 1000, 2) 200 and 3) 300 species; some mammals, reptiles, amphibians and other animals; Nearctic, Neotropical; the Ben B. Coffey Jr., Collection is soon to be housed here and catalogued separately. Dr. J.W. Hardy.

Bioacoustics Laboratory, California Academy of Sciences, San Francisco, California. Tel: 415 221-5100. 1000s of recordings of 1) 200, 2) 170 and 3) 0 species; Dr. L. Baptista.

The Borror Laboratory of Bioacoustics, Department of Zoology, Ohio State University, 1735 Neil Avenue, Columbus, Ohio 43210. Tel: 614 422-8088. c.18,000 recordings of 1) 800, 2) c.550 and 3) c.50 species; some mammals, reptiles, amphibians, fishes and insects; Nearctic, Dr. L. Fairchild. A catalog on computer print-out is available.

U.S. Fish and Wildlife Service, Denver Wildlife Research Center, Building 16, Denver Federal Center, Denver, Colorado 80225. Many recordings of 1) 50, 2) 50 and 3) 0 species; other animals?; Nearctic; G.A. Hood. One of a total of 25 sources listed by Schmidt and Johnson (1982) from which the voices of about 80 "pest" species may be obtained.

Division of Life Sciences, Geosciences and Geography, Sam Houston State University, Huntsville, Texas 77341. Many recordings of 1) c.200, 2) c.200 and 3) 0 species; Nearctic; Prof. R.R. Moldenhauer. See Moldenhauer (1979).

The Gunn Library of Wildlife Natural Sounds, P.O. Box 738, Bobcaygeon, Ontario KOM 1A0. Tel: 705 738-3432. c.5000 recordings of 1) c.750, 2) c.500 and 3) few species; Nearctic, Neotropical, Afro-tropical; Dr. W.W.H. Gunn. A catalog is available. (A private commercial organisation).

The Library of Natural Sounds, Cornell University Laboratory of Ornithology, 159 Sapsucker Woods Road, Ithaca, New York 14850. Tel: 607 256-5056. 45,000 recordings of 1) 4500, 2) 800 and 3) 300 species; some mammals, amphibians, insects and others; Nearctic, Neotropical, Oriental, Afro-tropical; Dr. J.L. Gullledge. Computer-generated catalogs and indices are available. See Gullledge (1979).

The Memorial University of Newfoundland Sound Library, St. John's, Newfoundland. Tel: 709 737-7472. 1000s of recordings, totalling 500-1000 hours, of 1) 20, 2) 20

and 3) 0 species, some mammals, Nearctic; Dr. J. Lien A catalog is available.

The Moore Laboratory of Zoology, Occidental College, 1600 Campus Road, Los Angeles, California 90041. Tel: 213 259-2673. c.1000 recordings of 1) c.340, 2) c.20 and 3) c.300 species; Nearctic; (the Laidlaw Williams collection not yet cataloged); Dr. John Hafner. See Anon (n.d.).

The L. Irby Davis Collection, Museum of Zoology, Louisiana State University, Baton Rouge, Louisiana 70803. Tel: (504) 388-2855. 4459 recordings of 1) 3000+, 2) c.50 and 3) c.3000 species; (L.I. Davis, *pers comm*, October, 1982) Nearctic, Dr. J.P. O'Neill.

The Museum of Vertebrate Zoology Library of Wildlife Sounds, University of California, Berkeley, California 94720. Tel: 415 642-6000. 2016 recordings of 1) 286, 2) 109 and 3) 44 species; some other animals; Nearctic, Neotropical; Dr. N.K. Johnson and V.M. Dziadosz.

The National Museum of Natural Sciences, Ottawa, Ontario K1A 0M8; c.500 recordings of 1) 150, 2) 150 and 3) 0 species; few other animals; Nearctic; Dr. H. Ouellet.

The 'Nature of Things' Wildlife Sound Archive, Box 500, Station A, Toronto, Ontario, Canada M5W 1E6. Tel. (416) 925-3311. 700 recordings of 1) 230 2) 75 3) 0 species. James Murray.

## VIII SELECT WORLD LIST OF INSTITUTIONALIZED BIRD SOUND COLLECTIONS

### PALEARCTIC

The British Library of Wildlife Sounds (B.L.O.W.S.), British Institute of Recorded Sound, 29 Exhibition Road, London SW7 2AS, England. 7000 recordings of 1) 1600, 2) c.100 and 3) c.25 species; mammals, amphibians, insects and some other animals; Palearctic, Oriental, Afro-tropical, Antarctic, Australasian; duplicate of B.B.C. Natural History Sound Archives collection (6000 recordings); R. Kettle. See Burton (1979 and references therein); Kettle (1979).

The Library of Wildlife Sounds of the Academy of Sciences of the U.S.S.R., Institute of Biophysics, Puschino, Moscow Region 142292, U.S.S.R. 1000 recordings of 1) c.300, 2) 0 and 3) 0 species; Palearctic; Prof. B.N. Veprintsev. Three catalogs are available. See Boswall (1979a), Boswall and Dickson (1982) and Veprintsev (1979).

### NEOTROPICAL

Laboratorio de Bioacoustica, Universidade Estadual de Campinas, Depto. Zoologia, C.P. 1170, 13,100 Campinas, Sao Paulo, Brazil. 3000 recordings of 1) 600, 2) 0 and 3) 0 species; amphibians and some other animals; Neotropical; Dr. J. Vielliard.

Museo Argentino de Ciencias Naturales 'Bernardino Rivadavia', Instituto Nacional de Investigacion de las Ciencias Naturales, Av. Angel Gallardo 470, Casilla de Correo 220, Sucursal 5, 1405 Buenos Aires, Argentina. 5500 recordings of 1) 400, 2) 0 and 3) 0 species; mammals, amphibians and some other animals; Neotropical; R.J. Straneck.

### AFRO-TROPICAL

The Fitzpatrick Bird Communication Library, Transvaal Museum, P.O. Box 413, Pretoria 0001, Republic of South Africa; 3800 recordings of 1) a few hundred; 2) 0 and 3) 0 species; Afro-tropical; T. Harris. See Kemp and Harris (1979).

### ORIENTAL

The Library of Malaysian Bird Song, University of Malaya Zoology Department, Lembah Pantai, Kuala Lumpur, Malaysia. Many recordings of 1) 200, 2) 0 and 3) 0 species, Oriental; K. Scriven.

### AUSTRALASIAN

The C.S.I.R.O. Division of Wildlife Research, Helena Valley, Western Australia. 5000 recordings of 1) 500, 2) 0 and 3) 0 species; Australasian; T.A. Knight. A catalog is available. See Robinson (1979).

The New Zealand Wildlife Service Sound Library, Department of Internal Affairs, Wellington, New Zealand. 500 recordings of 1) c.200, 2) 0 and 3) 0 species; Australasian, J.L. Kendrick. A catalog is available. See Kendrick (1979) and McPherson (1979).

## IX PRIVATE BIRD SOUND COLLECTIONS

It was originally intended to include a list of privately owned bird sound collections from North America in this paper. However, our knowledge of these collections is far from comprehensive. In order to build up enough information to publish a useful list at a later date, we would be glad to hear from any person who owns such a collection. To take a couple of random examples, Chandler S. Robbins in about twenty-five years has taped about 700 species of birds, including 350 from the United States and Canada and 100 in Central America. George B. Reynard has taped about 750 species, mostly in North and Central America. Many of the private collections have been partly or completely deposited in (or bequeathed to) institutionalized collections. Some have not, but all should be!

## X ACKNOWLEDGMENTS

THE SENIOR AUTHOR was first inspired to embark on avian discographies covering all the zoogeographical regions of the world (a task now complete) by Byrl J Kellogg in 1960. Her husband, Peter Paul Kellogg, gave much encouragement as has, over the years, William Walker Hamilton Gunn. We owe a great debt of gratitude to Ron Kettle, the curator of the British Library of Wildlife Sounds who, with the eye of a Bald Eagle (*Haliaeetus leucocephalus*), spotted many sins of commission and omission. Help is also gratefully acknowledged from Luis Baptista, Donald J. Borrer, Ed and Ann Boyes, Monty Brigham, Ben B. Coffey, Jr., L. Irby Davis, William R. Fish, Hubert and Mabel Frings, F.D. Gennett, Dan Gibson, James L. Gullledge, John William Hardy, Charles Hartshorne, Peter Kilham, George B. Reynard, Norma Stillwell and Fred and Ginny Trumbull. Finally, for discographic assistance and inspiration it is a pleasure to acknowledge Peter Copeland, David G. Hanna and Leonard Petts.

## XI LITERATURE CITED

ALLEN, A.A. 1937. Hunting with a microphone the voices of vanishing birds. *Nat. Geogr. Mag.*, June. ● ———. 1944. Touring for birds with microphone and color camera. *Nat. Geogr. Mag.*, June: 689-696. ● ———. 1948. Recording the bird life of

- America with microphone and color camera *Science* 108: 600. • ———. 1951. Progress in bird photography and sound recording. *Proc. Xth Int. Orn. Congr.* • AMERICAN ORNITHOLOGISTS' UNION. 1957. *Check-list of North American Birds*, 5th ed. Baltimore. • ———. In preparation. *Check-list of North American Birds*, 6th ed. • ANON. 1899. Report on the Sixteenth Congress of the American Ornithologists' Union. *Auk*: 52-53. • ———. 1911. *HMV Catalogue for 1908-10*. HMV, London. • ———. 1935. Capturing the songs of birds. *Sci. Am.* 152: 331. • ———. 1937. Short-wave radio aids in recording seabirds' chorus. *Sci. News Letter* 32: 147 et seq. • ———. n.d. An annotated species catalogue of the major tape recorded holdings in the Moore Laboratory of Zoology. Moore Laboratory. • ASCH, M. et al. 1952. *Sounds of a Tropical Rain Forest in America*. Folkways, New York (brochure and disc). • BANKS, R.C., M.H. CLENCH, and J.C. BARLOW. 1973. Bird collections in the United States and Canada. *Auk* 90: 136-170. • BAUER, K.M. and U.N. GLUTZ VON BLOTZHEIM, 1966. *Handbuch der Vögel Mitteleuropas I*. Akademische Verlagsgesellschaft, Frankfurt am Main. • BONDESEN, P. 1977. *North American Bird Songs—a World of Music*. Scandinavian Science Press, Denmark. • BOSWALL, J. 1974. A bibliography of wildlife discographies. *Rec. Sound* 54: 305. 1979 supplement *Rec. Sound* 74-75: 72. • ———. 1979a. A discography of Soviet wildlife sound. *Rec. Sound* 74-75: 52-61. • ———. 1979b. A supplementary bibliography of wildlife discographies. *Rec. Sound* 74-75: 72. • ———, and W. DICKSON. 1982. Additions to a discography of Soviet wildlife sound. *Rec. Sound* 82: 61-70. • ———, and R. KETTLE. 1974. A discography of bird sound from the Nearctic zoogeographical region. *Rec. Sound* 54: 306-312. • ———, ———, and PRYTHERCH, R.J. 1969. A discography of bird sound from the Antarctic. *Polar Rec.* 14:603-612. • ———, ———. 1979. A revised world list of wildlife sound libraries. *Rec. Sound* 74-75: 70-72 and 1979 *Biophon* 7: 3-6. • BRADLEY, R. 1977. Making animal sound recordings. *Am. Birds* 31(3): 279-285. • BRAND, A.R. 1931. Canning nature's noises for the talkies. *Pop. Sci.* 119: 54-55. • ———. 1932. Recording songs of wild birds. *Auk* 49: 436-439. • ———. 1933a. Hunting with a sound camera. *Nat. Hist.* 33: 381-394. • ———. 1933b. Bird song study problems. *Bird-Lore* 38: 187-194. • ———. 1935. A method for the intensive study of bird song. *Auk* 52: 40-52. • ———. 1936. Bird voices in the Southland. *Nat. Hist.* 37: 127-138. • ———. 1938. Progress in recording voices of American birds. *C.R. 9me Congr. Orn. Intern. Rouen* 1938: 97-100. • ———. 1939. Hunting the Loon call. *Yearbook of the Adirondack Mountain Club*: 7-12. • BURTON, J. 1979. The B.B.C. collection of wildlife sounds: progress during the years 1974-1978. *Rec. Sound* 74-75: 41-44. • CARPENTER, C.R. 1940. A field study in Siam of the behavior and social relation of the Gibbon (*Hylobates lar*). *Comparative Psychology Monographs*. Vol. 16, No. 5, pp. 1-212. • CLENCH, M.H., R.C. BANKS, and J.C. BARLOW. 1976. Bird collections in the United States and Canada: addenda and corrigenda. *Auk* 93: 126-129. • COLLIAS, N. and M. JOOS. 1953. The spectrographic analysis of the sound signals of the domestic fowl. *Behaviour* 5: 175-189. • COPELAND, P. and J. BOSWALL. In press. A discography of human imitation of bird voice. • COUZENS, D. and R. MEHTA. In preparation. A world discography of captive bird sound. • CRAMP, S. and K.E.L. SIMMONS. (eds.). 1977 and 1980 *The Birds of the Western Palearctic* Vols. I and II. Oxford University Press. • DAVIS, T.H. 1979. Microphones and headphones for bird-recording. *Birding* 11(5): 240-243. • ———. 1981. The microphone comes first: cassette tape-recording update. *Birding* 13(5): 161-163. • DEARLING, R., C. DEARLING, and B. RUST. 1981. *Animals and Music*. In *The Guinness Book of Music*, second edn., pp. 137-143. Guinness Superlatives Ltd., Enfield. • FISHER, J. 1966. Birds in Literature, Music and Art. Chapter 8 in *The Shell Bird Book* pp. 176-216. Ebury Press and Michael Joseph. • GLINSKI, R.L. 1976. Birdwatching etiquette: the need for a developing philosophy. *Am. Birds* 30: 655-657. • GULLEDGE, J.L. 1976. Recording bird sounds. *Living Bird* 15: 183-203. • ———. 1979. The Library of Natural Sounds at the Laboratory of Ornithology, Cornell University. *Rec. Sound* 74-75: 38-41. • HALL-CRAGGS, J. 1979. Sound spectrographic analysis: suggestions for facilitating auditory imagery. *Condor* 81: 185-192. • ———, and R. JELLIS. In press. Birds in Music in *The New Dictionary of Birds*, revised edn. T. & A.D. Poyser. • HANNA, D.G. 1979. Additions to the discography of Nearctic region bird sound. *Rec. Sound* 74-75: 73-74. • HARDY, J.W. 1978. Suggestions for preparation of master tape recordings for production of phonodiscs for publication. *Am. Birds* 32: 965-967. • HECK, L. and L. KOCH. 1933. *Schrei der Steppe*. Verlag Knorr and Hirth, Munich. (Book, 32pp, and disc.). • HOWES, F.S. 1964. Article "Music, Birds in" in Thomson, A.L. (ed.). *A New Dictionary of Birds*. Nelson, London. • KEARTON, C. 1938. *My Woodland Home*. Jarrold, London. • KELLOGG, P.P. 1938. Hunting the songs of vanishing birds with a microphone. *Jour. Soc. Motion Picture Eng.* 30(2): 201-207. • ———. 1958. Recording sound in nature. Chapter 7, pp. 92-124 in *Techniques of Magnetic Recording*, by J. Tall. Macmillan & Co., New York. • ———. 1960. Considerations and techniques in recording sound for bio-acoustics study. In Lanyon, W.E. (ed.) *Animal Sounds and Communication*, pp. 1-25. Am. Inst. Biol. Sci., Washington. • ———. 1961a. Problems of storing natural sounds on tape. *Bio-Acoustics Bull.* 1: 2-4. • ———. 1961b. Sound recording as an aid to bird study. *Atlantic Naturalist*, April-June 1961: 85-92. • ———. 1962a. Bird-sound studies at Cornell. *Living Bird First Annual*: 37-48. • ———. 1962b. Capture Nature's sounds on tape. *Radio-Electronics*, February 1962: 44-48. • ———, and A.A. ALLEN. 1950. *Jungle Sounds*. Cornell University Records, Ithaca. (Disc). • KEMP, A. and T. HARRIS. 1979. Bird Communications Library. *Bokmakierie* 31(1): 18-19. • KENDRICK, J. 1979. Bird-sound recording in New Zealand. *Rec. Sound* 74-75: 62-64. • KETTLE, R. 1979. B.L.O.W.S.—the tape collection. *Rec. Sound* 74-75: 35-36. • KING, B. 1980. The magic wand. *Birding* 12(3): 106-108. • KOCH, L. 1955. *Memoirs of a Birdman*. Phoenix House, London. • LANYON, W.E. 1957. The parabolic reflector vs the folded re-entrant horn for recording bird vocalisations. *Bio-Acoustics Bull.* (first series) 1(6). • LITTLEJOHNS, R.T. 1931. *The Song of the Lyre Bird*. Herschell's Pty., Melbourne (Disc.). • ———. 1933. *The Magic Voice: A Story of the Australian Lyre Bird*. Ramsey, Melbourne. • MARION, W.R., T.E. O'MEARA, and D.S. MAEHR. 1981. Use of playback recordings in sampling elusive or secretive birds. *Studies in Avian Biology* 6: 81-85. • MCCHESENEY, D. 1959. Recording of bird song. *Proc. First Pan-African Orn. Congr. Ostrich* sup. 3: 384-387. • MCPHERSON, L. 1979. A catalogue of New Zealand wildlife sound recordings. *Rec. Sound* 74-75: 64-69. • MOLDENHAUER, R. 1979. The Texas bird sound library. *T.O.S. Newsletter* 27(10): 4-5. • REYNARD, G.B. 1958. Bird songs on tape. *Cassinia* 43: 6-9. • ———. 1962. The rediscovery of the Puerto Rican Whip-poor-will. *Living Bird* 1: 51-60. • ROBBINS, C.S., B. BRUUN, and H.S. ZIM. 1966. *Birds of North America a guide to field identification*. Golden Press, New York. • ROBERTS, P. 1966. Birds in the concert hall. *Animals* 9: 269-271. • ROBINSON, F.N. 1979. Bird-sound recording in Australia. *Rec. Sound* 74-75: 61-62. • SCHMIDT, R.H. and R.J. JOHNSON. 1982. *Bird dispersal recordings: sources of supply* University of Nebraska. • SCHOLES, P.A. 1955. *Bird Music in The Oxford Companion to Music*, 9th edn., pp. 107-110. Oxford University Press. • SELLAR, P.J. 1976. Sound recording and the birdwatcher. *Brit. Birds* 69: 202-215. • ———. 1979. B.L.O.W.S.—the second five years. *Rec. Sound* 74-75: 33-35. • STILLWELL, N. 1964. *Bird Songs. Adventures and Techniques in Recording the Songs of American Birds*. Doubleday. • VEPRINTSEV, B.N. 1979. Wildlife sound recording in the Soviet Union. *Rec. Sound* 74-75: 45-50 and plates 8 and 9 (Reprinted *Comp. Biochem. Physiol.* 67A: 321-328. 1980.). • WICKSTROM, D.C. In press. Factors to consider in recording avian sounds. In *Acoustical Communication in Birds* Vol 1 Academic Press. • WYRING, C.F., A.A. ALLEN, and P.P. KELLOGG, 1945. *Jungle Acoustics*. O.S.R.D. Reports 4699 and 4704, published privately from the Division of Acoustical Research, Rutgers University, Brunswick, New Jersey.

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