

Introduction to the CD's

Recordings on the two CD's that accompany Nature's Music are all related in some way to the science of birdsong. We are deeply indebted to the many authors who provided them. We are especially grateful to the following: to Albery Albuquerque Jr., for permission to use excerpts from his "Timbres da Natureza Amazonica II Fontes de Clavenários": to Jack Bradbury for allowing access to recordings from "The Diversity of Animal Sounds," published by the Macaulay Library of Natural Sounds at the Cornell Laboratory of Ornithology, and to Don Kroodsma for recordings from the CD of the Home Study Course in Bird Biology on Vocal Behavior (Chapter 7) published by the Cornell Laboratory of Ornithology. Richard Ranft at the British Library of Wildlife Sounds at the National Sound Archive provided several recordings. Others who were most helpful included Allan Baker, Hans-Heiner Bergmann, Jack Bradbury, Ian Burrows, Lang Elliot, Bruce Falls, Robin Jung, Albertine Leitao, Gene Morton, Jürgen Nicolai, Susan Peters, Katharina Riebel, and Sandy Vehrencamp.

Nature's Music. *The science of Music – CD1*

- 1 Sound track from "Tímbres da Natureza Amazônica" by Albery Albuquerque Júnior
 2 This is CD 1 of 2 belonging to Nature's Music, a book on the current state of the art in the science of birdsong. The sounds on this CD are associated with the text in the fourteen chapters.

Chapter 1

	Recorded by	Date	Location
3 chaffinch recordings by Thorpe from 1954 and 1956	W.H. Thorpe	4/20/54	Cambridge, England
a normal Cambridge chaffinch			
another normal chaffinch	W.H. Thorpe	6/15/54	Cambridge, England
an isolate 'Kaspar Hauser' song	W.H. Thorpe	5/7/56	Cambridge, England
an abnormal chaffinch tutored with pipit song	W.H. Thorpe	5/30/56	Cambridge, England
4 English chaffinch from Sussex	A.J. Baker	5/2/94	Medstead, England
New Zealand chaffinch	A.J. Baker	5/2/94	Karioi, New Zealand
5 indigo bunting	W.L. Hershberger	7/25/96	West Virginia, USA
6 winter wren	G.F. Budney	5/14/94	Franklin Co, Bay Pond Park, New York, US
7 fawn-breasted bowerbird	I. Burrows	8/23/93	University campus, Port Moresby, Papua New Guinea
Indian mynah bird (hill mynah)	C. Greenwalt		Kennemerduinen, Bloemendaal, The Netherlands
8 common nightingale	A.B. van den Berg	5/22/92	
wood thrush	D.J. Borror	7/2/54	Woods, Franklin, County, Ohio
brown-backed solitaire	W.A. Thurber	3/4/72	El Salvador, Santa Ana, Cerro Verde Australia
superb lyrebird	F.N. Robinson		
tui	L.B. McPherson	1956	Kapiti Island, New Zealand
Australian magpie	M.J. Widdowson	1/11/03	near Carlsbrook, Victoria, Australia
9 musician wren	T.A. Parker III	8/27/82	Cocha Cashu, Manu N.P., Madre de Dios, Peru
10 bullfinch	J. Nicolai		Germany

Chapter 2

- 11 barn swallow
- two songs both ending with a rattle
- P. Galeotti
- 2001
- Northern Italy

water pipit	song including snarr notes	U. Rehsteiner	6/13/91	Dischma Valley, Davos, Switzerland
12 European blackbird	high intensity song	T. Dabelsteen		Danmark
	low intensity song	T. Dabelsteen		Danmark
13 collared dove	coo bout with abrupt frequency changes within coos	H. Slabbekoorn	5/9/94	Moordrecht, The Netherlands
14 great reed warbler	syllable repertoire	D. Hasselquist	1997	Sweden
great tit	song type repertoire, six song types of one bird	M. Peet	5/8/02	Leidertorp, The Netherlands
15 European starling	song with heterospecific mimicry including a chicken and a goat	M. Eens	1984	Antwerp, Belgium
16 zebra finch	artificially constructed repertoire	S. Collins	1997	Leiden, The Netherlands
	artificially constructed repetition	S. Collins	1997	Leiden, The Netherlands
17 black cap	male song	S. Collins	2002	Sobreda, Portugal
18 superb fairy wren	type I song	C. Blackmore		Australia
	type II song	C. Blackmore		Australia
19 red-cheeked cordon bleu	male song	S. Collins	2001	Nottingham, UK
	female song	S. Collins	2001	Nottingham, UK
20 blue-breasted cordon bleu	male song	S. Collins	2001	Nottingham, UK
	female song	S. Collins	2001	Nottingham, UK
Chapter 3				
21 swamp sparrow	subsong	Inst. Anim. Behav. FU	-1980-1982	Millbrook, New York: laboratory
song thrush	subsong	Inst. Anim. Behav. FU	1994	Berlin, Germany: laboratory
nightingale	subsong	Inst. Anim. Behav. FU	1998	Berlin, Germany: laboratory
22 nightingale	early plastic song	Inst. Anim. Behav. FU	1998	Berlin, Germany: laboratory
	plastic song	Inst. Anim. Behav. FU	1998	Berlin, Germany: laboratory
	late plastic song	Inst. Anim. Behav. FU	1998	Berlin, Germany: laboratory
	crystallized song	Inst. Anim. Behav. FU	1998	Berlin, Germany: laboratory
23 song thrush	early plastic song	Inst. Anim. Behav. FU	1994	Berlin, Germany: laboratory
	plastic song	Inst. Anim. Behav. FU	1994	Berlin, Germany: laboratory
	late plastic song	Inst. Anim. Behav. FU	1994	Berlin, Germany: laboratory
	crystallized song	Inst. Anim. Behav. FU	1994	Berlin, Germany: laboratory
24 swamp sparrow	subsong	Inst. Anim. Behav. FU	1994	Berlin, Germany: laboratory
	early plastic song	S. Peters	-1980-1982	Millbrook, New York: laboratory
	late plastic song	S. Peters	-1980-1982	Millbrook, New York: laboratory
	crystallized song	S. Peters	-1980-1982	Millbrook, New York: laboratory
25 nightingale	solo-singing	H. Hultsch	-1980-1982	Millbrook, New York: laboratory
	counter-singing	D. Todt	1987	Berlin, Germany: Gatow
			1987	Berlin, Germany: Gatow

	Recorded by	Date	Location
Chapter 4			
26 eastern phoebe	D. Kroodsmma	7/1/01	Monteverde, Costa Rica
27 three-wartled bellbird	D. Kroodsmma	July 2000	Monteverde, Costa Rica
28 sedge wren	G.A. Keller	10/2/94	Coos County, Oregon, US
29 chipping sparrow	D.S. Herr		Washington, US
	R.S. Little	5/28/98	Van Erten, New York, US
30 chestnut-sided warbler	G.A. Keller	6/17/00	Klamath, Oregon, US
	W.W.H. Gunn	6/11/56	Sinclair Twp. Limberlost Rd, Ontario, Canada
chestnut-sided warbler	D. Kroodsmma	June 1990	Berkshire Mts., Massachusetts, US
31 Bewick's wren	D. Kroodsmma	1971	Corvallis, Oregon, US
32 example of simple song	D. Kroodsmma	1971	Corvallis, Oregon, US
example of complex song	G.A. Keller	5/22/95	Johnson County, Indiana, US
33 marsh wren	G.A. Keller	5/1/94	Florida, Marion County, Florida, US
34 black-capped chickadee	J. Brazie	3/21/96	Wild Gustin, California, US
35 superb lyrebird	D. Kroodsmma	May 1996	Montague, Massachusetts
36 northern mockingbird	F.N. Robinson		Australia
	G.F. Budney	June 1994	Luray, Groton Plantation, South Carolina, US
Chapter 5			
37 chaffinch	K. Riebel	6/8/96	Kippo Plantation, near St. Andrews, UK
		10/17/01	Ijmuiden, Noord-Holland, Netherlands
38 chicken	K. Riebel	5/17/96	Magus Muir, near St. Andrews, UK
	C. Evans	~1992	Davis, California, US
	C. Evans	~1992	Davis, California, US
	C. Evans	~1997	Sydney, Australia
39 orange-fronted conure	J. Bradbury	May 2001	Finca Centeno, Guancaste Province, Costa Rica
	J. Bradbury	May 2001	Finca Centeno, Guancaste Province, Costa Rica
	J. Bradbury	May 2001	Finca Centeno, Guancaste Province, Costa Rica
	J. Bradbury	May 2001	Finca Centeno, Guancaste Province, Costa Rica
	J. Bradbury	May 2001	Finca Centeno, Guancaste Province, Costa Rica

agonistic protest calls	J. Bradbury	May 2001	Finca Centeno, Guanacaste Province, Costa Rica
warble notes	J. Bradbury	May 2001	Finca Centeno, Guanacaste Province, Costa Rica
American robin	L. Elliot	8/3/90	Deer Park, Upper Peninsula of Michigan, US
European blackbird	H. Slabbekoorn	5/30/04	De Pijp, Amsterdam, the Netherlands
tufted titmouse	G.A. Keller	4/8/87	Laguna Atascosa NWR, Texas, US
black-capped chickadee	W.W.H. Gunn	8/13/57	Algonquin Park, Ontario, Canada
blue jay	H. McIsaac	9/23/79	Ithaca, New York, US
house wren	W.W.H. Gunn	July 1974	Parkland, Alberta, Canada
tufted titmouse	G.A. Keller	4/8/87	Laguna Atascosa NWR, Texas, US
Mexican chickadee, western tanager & red-breasted nuthatch	R.S. Little	5/27/77	Herb martyr, Basin Trail, Arizona, US
white-throated sparrow	B. Falls & D. Robinson	October 1963	Long Point Bird Observatory, Lake Erie, Canada
swamp sparrow	B. Falls & D. Robinson	October 1963	Long Point Bird Observatory, Lake Erie, Canada
song sparrow	B. Falls & D. Robinson	October 1963	Long Point Bird Observatory, Lake Erie, Canada
distress calls	W. Koenig	3/30/02	Hastings, California, US
contact calling	J. Gee	March 1998	Mountain Center, Palm Desert, California, US
variety of calls	I. Krams	10/28/01	Southeastern Latvia near Kraslava
American redstart	W.R. Evans	May 1989	Eastern Florida, US
veery	W.R. Evans	Aug 1988	Near Ithaca, New York, US
bobolink	W.R. Evans	May 1989	Eastern Florida, US
upland sandpiper	W.R. Evans	Aug 1989	West/Central New York, US
yells	B. Heinrich	winter 1991	western Maine, US
begging calls, 4 recording	M. Beecher, P. Stoddard & M. Medvin	-1982-1983	Okanogan & Kittas Counties, Washington, US
begging calls, 4 recordings	M. Beecher, P. Stoddard & M. Medvin	-1982-1983	Okanogan & Kittas Counties, Washington, US
begging calls	N. Davies	7/5/02	Wicken Fen, Cambridgeshire, UK
call dialect 1, Convict	S. Rothstein, A. O'Loughlen & R. Fleischer	April-July 1980's	Convict, California, US
40 set alarm calls by different species			
41 mobbing calls by different species			
42 distress calls by different species			
43 acorn woodpecker			
44 California quail			
45 crested tit			
46 nocturnal flight calls of different species			
47 raven			
48 barn swallow			
49 cliff swallow			
50 cuckoo chick, in a reed warbler nest, 9 days old			
51 brown-headed cowbird			

	Recorded by	Date	Location
	S. Rothstein, A. O'Loughlen & R. Fleischer	April–July 1980's	LeeVining, California, US
	S. Rothstein, A. O'Loughlen & R. Fleischer	April–July 1980's	Mammoth, California, US
Chapter 6			
52 white-crowned sparrow	H. Slabbekoorn	6/18/01	Sierra Nevada, California, US
	H. Slabbekoorn	6/18/01	Sierra Nevada, California, US
	H. Slabbekoorn	6/18/01	Sierra Nevada, California, US
53 green hylia	H. Slabbekoorn	4/24/99	Eboum-Eroum, Cameroon
	H. Slabbekoorn	4/24/99	Eboum-Eroum, Cameroon
54 ambient noise examples	H. Slabbekoorn	5/28/01	Sierra Nevada, California, US
	H. Slabbekoorn	6/23/00	Rocky Mountains, Colorado, US
	H. Slabbekoorn	12/14/01	San Francisco, California, US
	H. Slabbekoorn	4/15/99	Dja Reserve, Cameroon
	H. Slabbekoorn	3/22/99	Nguti, Cameroon
	H. Slabbekoorn	2/25/99	Wakwa, Cameroon
55 king penguin	T. Aubin	11/3/99	Possession Island, Crozet Archipelago
	T. Aubin	11/10/99	Possession Island, Crozet Archipelago
56 song examples from closed habitat	H. Slabbekoorn	4/15/99	Dja Reserve, Cameroon
	H. Slabbekoorn	4/12/99	Dja Reserve, Cameroon
	H. Slabbekoorn	4/16/99	Dja Reserve, Cameroon
57 song examples from open habitat	H. Slabbekoorn	2/27/99	Ranch de Ngaundaba, Cameroon
	H. Slabbekoorn	2/27/99	Ranch de Ngaundaba, Cameroon
	H. Slabbekoorn	2/15/99	Betare Oya, Cameroon
58 example of song convergence	H. Slabbekoorn	4/24/99	Eboum-Eroum, Cameroon
	H. Slabbekoorn	2/15/99	Betare Oya, Cameroon
	H. Slabbekoorn	2/15/99	Betare Oya, Cameroon
	H. Slabbekoorn	3/22/99	Nguti, Cameroon
example of song divergence	H. Slabbekoorn	4/12/99	Dja Reserve, Cameroon
59 little greenbul	H. Slabbekoorn	3/10/99	Yoko, Cameroon
	H. Slabbekoorn	4/13/99	Dja Reserve, Cameroon
Chapter 7			
60 four calls of three different species	B. Dooling		College Park, Maryland, US, laboratory

zebra finch	B. Dooling	College Park, Maryland, US, laboratory
canary	B. Dooling	College Park, Maryland, US, laboratory
	H. Slabbekoorn	Leiden, The Netherlands, laboratory
61 two times the same standard tone series of the baseline 'chirp,' as tested on birds change in second chirp in tone 2		3/19/03
change in second chirp in tone 1	H. Slabbekoorn	Leiden, The Netherlands, laboratory
change in second chirp in tone 7	H. Slabbekoorn	Leiden, The Netherlands, laboratory
62 two times the same standard tone series of a slow 'chirp,' slowed down for the human ear	H. Slabbekoorn	Leiden, The Netherlands, laboratory
change in second slow chirp in tone 2	H. Slabbekoorn	Leiden, The Netherlands, laboratory
change in second slow chirp in tone 4	H. Slabbekoorn	Leiden, The Netherlands, laboratory
63 two of the same harmonic tones	R. Dooling	College Park, Maryland, US, laboratory
two harmonic tones that differ: the second has a mistuned baseline of 10 Hz	R. Dooling	College Park, Maryland, US, laboratory
64 two harmonic tones that differ with respect to the Schroeder complex with relatively high frequency and of relatively low frequency	R. Dooling	College Park, Maryland, US, laboratory
Chapter 8		
65 canary	M. & F. Nottebohm	Rockefeller University Field Center
	M. & F. Nottebohm	Rockefeller University Field Center
66 zebra finch	C. Scharff	Rockefeller University Laboratory of Anim. Behav.
	C. Scharff	Rockefeller University Laboratory of Anim. Behav.

	Recorded by	Date	Location
Chapter 9			
67 northern cardinal	C. Scharff	10/17/89	Rockefeller University Laboratory of Anim. Behav.
	C. Scharff	11/27/89	Rockefeller University Laboratory of Anim. Behav.
68 brown thrasher	R. Suthers	1996	Bloomington, Indiana, US, laboratory
69 brown-headed cowbird	R. Suthers	1996	Bloomington, Indiana, US, laboratory
	R. Suthers	1996	Bloomington, Indiana, US, laboratory
	R. Suthers	1994	Bloomington, Indiana, US, laboratory
	R. Suthers	1995	Bloomington, Indiana, US, laboratory
	R. Suthers	1995	Bloomington, Indiana, US, laboratory
70 northern cardinal experiment	R. Suthers	2000	Bloomington, Indiana, US, laboratory
	R. Suthers	2000	Bloomington, Indiana, US, laboratory
71 domestic canary	R. Suthers	1999	University of Paris X, Nanterre, France
	R. Suthers	1999	University of Paris X, Nanterre, France
Chapter 10			
72 Eurasian collared dove	M. Ballintijn	1994	captivity, Leiden, the Netherlands
	M. Ballintijn	1994	captivity, Leiden, the Netherlands
	M. Ballintijn	1994	captivity, Leiden, the Netherlands
73 African collared dove	S. de Kort	1998	Waza National Park, Cameroon
	S. de Kort	1998	Waza National Park, Cameroon
	S. de Kort	1998	Waza National Park, Cameroon
74 African mourning dove	S. de Kort	1998	Waza National Park, Cameroon
	S. de Kort	1998	Waza National Park, Cameroon
	S. de Kort	1998	Waza National Park, Cameroon
75 red-eyed dove	S. de Kort	1998	Waza National Park, Cameroon
	S. de Kort	1999	Waza National Park, Cameroon
	S. de Kort	1999	Adamawa plateau, Cameroon
76 ring-necked dove	S. de Kort	1999	Matopo National park, Zimbabwe
	S. de Kort	1999	Nylsvlei, South Africa
	S. de Kort	1999	Hwange National park, Zimbabwe
	S. de Kort	1999	Hwange National park, Zimbabwe
77 vinaceous dove	S. de Kort	1997	Waza National Park, Cameroon
	S. de Kort	1997	Waza National Park, Cameroon
	S. de Kort	1997	Waza National Park, Cameroon

78	Adamawa turtle dove	perch-coo bow-coo	S. de Kort	1999	Benoue National park, Cameroon
		nest-coo	S. de Kort	1999	Benoue National park, Cameroon
79	European turtle dove	perch-coo bow-coo	S. de Kort	1996	Benoue National park, Cameroon
		nest-coo	S. de Kort	1995	Meyndel, the Netherlands
80	Oriental turtle dove	perch-coo	S. de Kort	1995	captivity, the Netherlands
		bow-coo	S. de Kort	1995	captivity, the Netherlands
		nest-coo	S. de Kort	1995	captivity, the Netherlands
		perch-coo	S. de Kort	1995	captivity, the Netherlands
81	island turtle dove	perch-coo	S. de Kort	2000	Java, Indonesia (National sound archive)
		bow-coo	S. de Kort		Luzon, Philippines
		nest-coo	S. de Kort		Java, Indonesia (National sound archive)
82	red turtle dove	perch-coo	S. de Kort	1995	captivity, the Netherlands
		bow-coo	S. de Kort	1995	captivity, the Netherlands
		nest-coo	S. de Kort	1995	captivity, the Netherlands
83	pink pigeon	perch-coo	M. Griekspoor		captivity, the Netherlands
		nest-coo	M. Griekspoor		captivity, the Netherlands
84	Madagascar turtle dove	perch-coo	S. de Kort	1995	captivity, the Netherlands
		bow-coo	S. de Kort	1995	captivity, the Netherlands
85	spotted dove	perch-coo	S. de Kort	1999	Hongkong
		bow-coo	S. de Kort	1995	captivity, the Netherlands
		nest-coo	S. de Kort	1995	captivity, the Netherlands
86	laughing dove	perch-coo	S. de Kort	1998	Waza National Park, Cameroon
		bow-coo	S. de Kort	1998	Waza National Park, Cameroon
		nest-coo	S. de Kort	1997	Adamawa plateau, Cameroon
Chapter 11					
87	examples of sparrow songs	Bachman's sparrow	AAA, PPK	5/16/54	LNS 14976
		black-throated sparrow, song 1	G. Keller	5/17/90	LNS 50164
		song 2	G. Keller	5/17/90	LNS 50164
		lark bunting	RCS, MCM	6/12/58	LNS 15174
		lark sparrow	K. Colver	6/11/90	LNS 49778
		yellow-eyed junco	G. Keller	5/31/87	Portal, Arizona, US
		Lincoln's sparrow	L.V. Peyton	6/11/72	LNS 16706
		vesper sparrow	R.S. Little	4/21/64	LNS 15373
		chipping sparrow	G. Keller	6/12/88	LNS 42245

	Recorded by	Date	Location
88 natural and manipulated swamp sparrow songs	S. Nowicki	5/1/88	Duchess County, NY
	J. Podos & S. Nowicki	6/1/93	laboratory recordings
	S. Nowicki	5/1/88	Duchess County, NY
	J. Podos & S. Nowicki	6/1/93	laboratory recordings
	S. Nowicki	5/1/88	Duchess County, NY
	J. Podos & S. Nowicki	6/1/93	laboratory recordings
	J. Podos & S. Nowicki	5/3/94	laboratory recordings
	J. Podos & S. Nowicki	5/17/94	laboratory recordings
	J. Podos & S. Nowicki	5/5/94	laboratory recordings
	J. Podos & S. Nowicki	4/29/94	laboratory recordings
	J. Podos & S. Nowicki	5/25/94	laboratory recordings
	J. Podos	2/16/99	Santa Cruz Island, Galapagos
	J. Podos	2/22/99	Santa Cruz Island, Galapagos
	J. Podos	3/11/99	Santa Cruz Island, Galapagos
	J. Podos	2/15/99	Santa Cruz Island, Galapagos
	J. Podos	2/23/99	Santa Cruz Island, Galapagos
	J. Podos	3/7/99	Santa Cruz Island, Galapagos
	J. Podos	3/11/99	Santa Cruz Island, Galapagos
	J. Podos	3/10/99	Santa Cruz Island, Galapagos
Chapter 12			
91 subtropical pygmy-owl	F. Sornoza Molina	7/22/92	MLNS 63426
Andian pygmy-owl	P. Swartz	10/18/70	Tachira, Venezuela (ARA 16, MLNS)
Emei leaf warbler	P. Alstrom		Emei Shan, Sichuan Province, China (BLNSA Kina94 II#01)
Blyth's leaf warbler	P. Alstrom		China (BLNS Kina94 I#83)
Lulu's tody-tyrant	B.M. Whitney	8/25/89	Florida de Pomacochas, Depto. Amazonas, Peru
rufous-crowned tody-tyrant	P. Donahue	4/23/90	Prov. Zamora-Chinchipe, Ecuador (MLNS 55778)
Socorro dove	L.F. Baptista		captiv. Calif. Academy (ARA Record 14)
mourning dove	S.L.L. Gaunt	5/25/96	Franklin Co., OH (BLB 21146)
92 Galapagos petrel	R.J. Tompkins	3/31/79	MLNS 20301
93 black-faced solitaire	L.F. Baptista	2/15/92	Monteverde, Costa Rica (BLB 21615)
white-browed tit	S.L.L. Gaunt	5/19/91	San Jose Prov. Costa Rica (BLB 18073)

dusky seaside-sparrow						Bervard Co, FL (FSMNH 724 cut2)
ivory-billed woodpecker						MLNS 6784
white-tailed leaf warbler						China (BLNS Kina94 I#82)
94 western screech-owl						Owyhee Co, ID
whooping crane						Baraboo Wisconsin, US
Leach's storm-petrel						Kent Island, NB, Canada (BLB 28010)
						Kent Island, NB, Canada (BLB 28010)
Chapter 13						
95 African grey parrot						Tucson, Arizona, US
Chapter 14						
96 brown-headed cowbird						Bloomington, Indiana, US
97 European starling, mimicry examples						Mebane, North Carolina, US
						Mebane, North Carolina, US
						Mebane, North Carolina, US
						Mebane, North Carolina, US
						Mebane, North Carolina, US
						Mebane, North Carolina, US
						Mebane, North Carolina, US
						Franklin and Marshall College, Lancaster, PA
98 adult-directed speech						Franklin and Marshall College, Lancaster, PA
infant-directed speech						Franklin and Marshall College, Lancaster, PA

Nature's Music. *The science of Music – CD2*

- 1 Sound track from 'Tímbres da Natureza Amazônica' by Albery Albuquerque Júnior
 2 This is CD 2 of 2 belonging to Nature's Music, a book on the current state of the art in the science of birdsong. The sounds on this CD are associated with the text in 28 out of the 48 boxes that are distributed throughout the book.

Box 2 (Chapter 1)

3	sonogram A, three artificial tones of different frequency	H. Slabbekoorn	11/4/02	Leiden, the Netherlands
4	sonogram B, African cuckoo	H. Slabbekoorn	3/5/99	Djohong, Cameroon
5	sonogram C, introductory note of a white-crowned sparrow	H. Slabbekoorn	6/18/01	Sierra Nevada, California, US
6	sonogram D, alarm call of a great tit	H. Slabbekoorn	4/8/02	De Vuursche, the Netherlands
7	sonogram E, three artificial tones with changing frequency	H. Slabbekoorn	11/4/02	Leiden, the Netherlands
8	sonogram F, fox sparrow song	H. Slabbekoorn	6/23/00	Gothic, Colorado, US
9	same fox sparrow song, at 1/8 speed	H. Slabbekoorn	6/23/00	Gothic, Colorado, US
10	sonogram G + H, artificial tones plus yellow warbler song	H. Slabbekoorn	6/7/00	Gothic, Colorado, US
11	sonogram I, two songs of a Diederik cuckoo	H. Slabbekoorn	6/28/99	Lendi, Cameroon
12	sonogram J, artificially-created harmonic tones	H. Slabbekoorn	11/4/02	Leiden, the Netherlands
13	sonogram K, zebra finch song	N. Terpstra	9/20/02	captivity, Leiden, the Netherlands
14	sonogram L, calls of the Eurasian jay	H. Slabbekoorn	4/10/94	Soerstuinen, the Netherlands
15	sonogram M, black-bellied seedcracker, two songs of different individuals	T.B. Smith	5/22/86	Ndibi, Cameroon

Box 4 (Chapter 2)

16	domestic canary, song containing sexy syllables	A. Tanvez		
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Box 5 (Chapter 2)

17	song sparrow, normal song	R. Anderson	5/18/02	Geneva, Crawford County, PA
	isolate song	S. Peters	1981	Millbrook, New York, US
	song of a deaf bird	S. Peters	1979	Millbrook, New York, US

Box 6 (Chapter 2)

18	tawny owl, male 1, hoot 1	S. Redpath	3/1/94	Cambridgeshire, UK
	male 1, hoot 2	S. Redpath	3/1/94	Cambridgeshire, UK

male 2	S. Redpath	3/1/94	Cambridgeshire, UK
male 3	S. Redpath	3/1/94	Cambridgeshire, UK
Box 8 (Chapter 2)			
19 Clark's grebe, female advertising calls	G. Nuechterlein	4/1/79	Klamath Falls, Oregon, US
male advertising calls	G. Nuechterlein	4/1/79	Klamath Falls, Oregon, US
20 western grebe, female advertising calls	G. Nuechterlein	4/1/79	Klamath Falls, Oregon, US
male advertising calls	G. Nuechterlein	4/1/79	Klamath Falls, Oregon, US
Box 9 (Chapter 3)			
21 swamp sparrow	D. Borror	7/16/78	Duckpuddle Pond, Lincoln Co, ME
22 song sparrow	J. Soha	5/17/00	Pacific City, Tillamook Co, OR
23 white-crowned sparrow	J. Orjuela/M. Morton	6/23/70	Onion Valley, Inyo Co, CA
24 white-crowned sparrow, song with whistle removed	L.F. Baptista	6/25/72	Steens Mountain, Harney Co, OR
heterospecific song with whistle, created with Belding's ground squirrel call	J. Soha	7/1/94	Tioga Pass, Mono Co, CA
same heterospecific song without whistle	J. Soha/R. Lein	7/1/94 & 1970's	Tioga Pass, Mono Co, CA + Turner Valley, Alberta, Canada
25 white-crowned sparrow pupil's learned song	J. Soha	6/14/95	Animal Communication Lab at UC Davis, Yolo Co, CA
Box 12 (Chapter 3)			
26 eastern white-crowned sparrow	D.A. Nelson	6/11/95	Churchill (20 km east of), Manitoba, Canada
2nd individual	D.A. Nelson	6/7/02	Kuujuarapik, Nunavik, Quebec, Canada
27 Gambel's white-crowned sparrow	K. Colver	6/12/97	Cantwell (16 km east of), Maunuska-Susitna, Alaska, US
2nd individual	G.D. McNett	6/24/97	Churchill (20 km east of), Manitoba, Canada
mountain white-crowned sparrow	D.A. Nelson	7/9/93	Bridgeport (37 km west of), Mono and Tuolumne, California, US
2nd individual	D.A. Nelson	7/5/95	Markleeville (18 km west of), Alpine, California, US
29 Nuttall's white-crowned sparrow	D.A. Nelson	3/25/98	Inverness, Marin, California, US
2nd individual	D.A. Nelson	3/26/97	Pajaro, Monterey, California, US
30 Puget Sound white-crowned sparrow	D.J. Borror	7/15/65	Corvallis (12 mi south of), Benton, Oregon, US
2nd individual	D.J. Borror	6/23/65	Lewisburg (6 mi northwest of), Benton, Oregon, US
Box 17 (Chapter 4)			
31 sedge warbler	L. Macaulay	4/3/97	Oued Masso south of Agadir, Morocco

- Box 18 (Chapter 4)**
- 32 Boran cisticola
mimicry by marsh warbler
- 33 vinaceous dove
mimicry by marsh warbler
- 34 brubru shrike
mimicry by marsh warbler
- Box 20 (Chapter 5)**
- 35 red crossbill flight calls, type2, variant1
type2, variant2
- 36 type4, variant1
type4, variant4
- 37 type2, two birds of a pair
- Box 22 (Chapter 6)**
- 38 common yellowthroat, perched song
flight song
- Box 23 (Chapter 6)**
- 39 chipping sparrow
- 40 field sparrow
- 41 field sparrow, control song used for playback
song increased in frequency with 1 JMD
song decreased in pause duration with 1 JMD
- Box 24 (Chapter 6)**
- 42 rufous-collared sparrow, habitat-related dialects,
grassland dialect
- 43 desert scrub dialect
- 44 puna scrub dialect
- 45 chaco dialect
- 46 alder dialect
- 47 transition dialect
- Box 25 (Chapter 6)**
- 48 greenish warbler, songs from 8 populations,
population TL
- 49 population AA
- | | | |
|--------------------|------------|---------------------------------------|
| C. Chappuis | 1974 | West-Africa |
| F. Dowsett-Lemaire | 1975 | Belgium |
| C. Chappuis | 1974 | West-Africa |
| F. Dowsett-Lemaire | 1974-1975 | Belgium |
| C.H. Haagner | 1961 | Kruger Park, South Africa |
| F. Dowsett-Lemaire | 1974-1975 | Belgium |
| T. Hahn | 11/19/88 | Devils Table, WA |
| T. Hahn | 8/21/98 | Old Station, CA |
| T. Hahn | 7/6/88 | Cedar Rock, Shaw Island, WA |
| T. Hahn | 2/17/89 | Swank Pass, WA |
| T. Hahn | 8/21/98 | Old Station, CA |
| L. Elliot | 5/3/90 | Tompkins Co., NY |
| L. Elliot | 5/28/90 | Tompkins Co., NY |
| D. Borror | 6/24/76 | Worcester County, MD |
| D. Borror | 5/10/87 | Strafford County, NH |
| D.A. Nelson | -1985-1988 | New York, US |
| D.A. Nelson | -1985-1988 | New York, US |
| D.A. Nelson | -1985-1988 | New York, US |
| P. Handford | 1984 | Tucuman province, Argentina |
| P. Handford | 1999 | Mendoza province, Argentina |
| P. Handford | 1985 | Jujuy province, Argentina |
| P. Handford | 1984 | Tucuman province, Argentina |
| P. Handford | 1984 | Tucuman province, Argentina |
| P. Handford | 1984 | Tucuman province, Argentina |
| D. Irwin | 5/29/95 | Teletsk Lake, Altai Mountains, Russia |
| D. Irwin | 6/22/97 | Ala Archa N.P., Kyrgyzstan |

50	population PK	S. Gross/T. Price	1999	Pakistan
51	population MN	Z. Benowitz-Fredericks/K. Marchetti	1997	Manali, Himachal Pradesh, India
52	population LN	D. Irwin	5/21/97	Langtang N.P., Nepal
53	population EM	J. Irwin	5/17/02	Emeishan, Schezwan Province, China
54	population XN	J. Irwin/D. Irwin	6/4/00	Laoye Shan, Qinghai Province, China
55	population ST	D. Irwin	7/5/96	Stolbi N.P., Krasnoyarsk Region, Russia
Box 26 (Chapter 7)				
56	Bengalese finch, song before deafening song 5 days after deafening song 30 days after deafening	K. Okanoya K. Okanoya K. Okanoya	6/1/92 6/9/92 7/3/92	National Agriculture Research Center National Agriculture Research Center National Agriculture Research Center
Box 27 (Chapter 7)				
57	four series of artificial tones, each repeated three times, falling in pitch	J. Cynx	3/1/03	Poughkeepsie, NY
58	rising in pitch	J. Cynx	3/1/03	Poughkeepsie, NY
59	falling in pitch and shifted down	J. Cynx	3/1/03	Poughkeepsie, NY
60	rising in pitch and shifted down	J. Cynx	3/1/03	Poughkeepsie, NY
Box 31 (Chapter 8)				
61	Bengalese finch, song pre- Area X lesion song post- Area X lesion	K. Kobayasi K. Kobayasi	9/11/96 9/19/96	Chiba University, Japan Chiba University, Japan
Box 35 (Chapter 8)				
62	sombre hummingbird	A. Ferreira	September 1999	Atlantic Forest reserve, Espirito Santo, Brazil
63	rufous-breasted hermit hummingbird	A. Ferreira	September 1999	Atlantic Forest reserve, Espirito Santo, Brazil
Box 36 (Chapter 9)				
64	swiftlet, echolocating clicks oilbird, echolocating clicks in a dark cave	R. Suthers R. Suthers	~1980 ~1963	Lab recording, Queensland, Australia Oropouche Cave, Trinidad, WI
65	oilbird, social vocalizations	R. Suthers	~1963	Oropouche Cave, Trinidad, WI
Box 38 (Chapter 9)				
66	zebra finch, normal song decrystallized song	A. Leonardo A. Leonardo	1998 1998	Caltech; Pasadena, CA Caltech; Pasadena, CA
Box 39 (Chapter 10)				
67	rock dove or feral pigeon, part of a coo bout	H. Slabbekoorn	1/20/03	De Pijp, Amsterdam, the Netherlands

68	'trumpeter' rock dove, one completed cooing sequence	F. Dorritie	1/23/03	"The Lort of John de Carlo", Gilroy, California, USA
69	Spanish timbrado canary, song sequence by 4 males as they enter song contests	E. Parra	9/1/00	Seville, Spain
70	wild canary, two songs recorded in captivity	H. Slabbekoorn	10/18/02	captivity, Leidschenveen, the Netherlands
Box 40 (Chapter 10)				
71	European quail, one growl and three calls	S. Collins	1986	captivity, Bristol, England
72	Japanese quail, two calls	S. Collins	1986	captivity, Bristol, England
73	European x Japanese quail hybrid, two calls each for two different individuals	S. Collins	1986	captivity, Bristol, England
74	Oregon junco	G.A. Keller	7/1/90	
75	white-throated sparrow	L. Elliott	6/9/95	Franklin County, New York, USA
76	junco x white-throated sparrow hybrid	R. Jung	1/8/92	Washington, DC, USA
Box 41 (Chapter 10)				
77	firefinch	R.B. Payne	1993	captivity, Ann Arbor, MI
	mimicry by village indigobird	R.B. Payne	1993	captivity, Ann Arbor, MI
78	Bengalese finch	R.B. Payne	1992	captivity, Ann Arbor, MI
	mimicry by village indigobird	R.B. Payne	1992	captivity, Ann Arbor, MI
Box 43 (Chapter 11)				
79	crowned crane	M.E.W. North	4/13/62	Tanzania
	whooping crane	A.A. Allen	1/29/54	Texas, US
Box 45 (Chapter 12)				
80	green violet-ear, recording 1 recording 2	L. F. Baptista S.L.L. Gaunt	2/21/95 2/21/92	San Jose Prov., Costa Rica San Jose Prov., Costa Rica
Box 46 (Chapter 13)				
81	Lühdler's bush shrike	C. Chappuis	February	Gabon
	mimicry by African grey parrot	J.P. Gautier	8/21/1991	Zaïre
82	bristle-nosed barbet	C. Chappuis	July	Ivory Coast
	mimicry by African grey parrot	J.P. Gautier	8/21/1991	Zaïre
83	blue cuckoo-shrike	C. Chappuis	April	Ivory Coast
	mimicry by African grey parrot	C. Chappuis	1968	Ivory Coast
84	emerald cuckoo	J. Brunel		Ivory Coast
	mimicry by African grey parrot	J.P. Gautier	8/21/1991	Zaïre

- | | | | | |
|----------------------------|--|-----------------------------|--|---|
| 85 | black cuckoo
mimicry by African grey parrot | C. Chappuis
J.P. Gautier | July
8/21/1991 | Ivory Coast
Zaire |
| 86 | chestnut wattle-eye
mimicry by African grey parrot | C. Chappuis
J.P. Gautier | December
8/21/1991 | Cameroon
Zaire |
| Box 47 (Chapter 13) | | | | |
| 87 | yellow-naped Amazon, Northern dialect

Southern dialect | T. Wright

T. Wright | March-June
1994

March-June
1994 | Costa Rica

Costa Rica |
| 88 | ringneck parrot, Perth dialect
Margaret River dialect | M. Baker
M. Baker | 4/28/99
4/29/99 | Perth, Western Australia
Margaret River, Western Australia |
| Box 48 (Chapter 14) | | | | |
| 89 | Composition by Messiaen inspired by chaffinch
song
real chaffinch song | | | |
| 90 | Duke Ellington inspired by song of the common
mynah | A. Lettao | 5/3/99 | Warmond, The Netherlands |
| 91 | Harry Belafonte inspired by mourning dove
cooing | | | |
| 92 | The Beatles using song of a European blackbird | | | |
| 93 | The Beta Band using song of a European
blackbird | | | |
| 94 | Dead Can Dance using a variety of sounds from
birds and other animals | | | |