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ELEPHANT BIBLIOGRAPHY

With the publication of this issue we have on file references for the past 68 years, with a total of 2446 references. Because of the technical problems and lack of time, we are publishing only references for 1980-1987; the rest (1920-1987) will appear at a later date. The references listed below were retrieved from different sources: Recent Literature of Mammalogy (published by the American Society of Mammalogists), Computer Bibliographic Search Services (CCBS, the same used in previous issues), books in our office, EIG questionnaires, publications and other literature crossing the editors' desks. This Bibliography does not include references listed in the Bibliographies of previous issues of Elephant. A total of 217 new references has been added in this issue. Most of the references were compiled on a computer using a special program developed by Gary L. King; the efforts of the King family have been invaluable.

The references retrieved from the computer search may have been slightly altered. These alterations may be in the author's own title, hyphenation and word segmentation or translation into English of foreign titles. For complete explanation of such changes, see the following references: 1) Bibliographic Retrieval Services System Reference Manual and Database Search Guides, New York, page 3 looseleaf section "BIOSIS Previews" (10 pp.); and 2) BIOSIS, 1981, Search Guide: BIOSIS Previews edition, BioScience Information Service, Philadelphia, page D4 in looseleaf section "Instruction and General Information" (24 pp). Since many of our references have been taken from lists of references, and we may not have seen the originals, there may be mistakes. If you become aware of any, please inform us.

The vast majority of the references are about extant species of elephants, as well as other Elephantidae and Pleistocene proboscideans. References on earlier proboscideans are also included. Extinct proboscideans are designated by an asterisk (*). In the references taken from the computer and books, the word "elephant" may or may not be a part of the title even though elephants are mentioned one way or another in the articles. We thought it would be better to leave these references in, as someone is bound to make use of them. Readers are requested to send in any annotated references (theirs or others') of publications dealing with elephants. (A section in the Questionnaire at the back of this issue is supplied for readers' publications.) Please list them in the bibliographies form used below. Readers may help by collecting and annotating references; see examples in Volume 1, Number 4, page 260.

NOTE: Complete names of most abbreviations listed in these references and previous issues of Elephant can be found in any of the following sources:

- Chemical Abstracts Service Source Index (CASSI)
- Serial Sources for the BIOSIS (BioScience Information Services) Data Base, provided with Biological Abstracts
- World List of Scientific Periodicals.

Following are the initials and corresponding names of persons who have contributed annotations to this set of references or sources of references. Not all individuals listed below are members of the Bibliography Staff (see complete list on Editorial Board and Reviewers page of this issue):

EAB = Eric A. Buchfinck
JKB = Judith K. Berg
RAC = Richard A. Chiger
JGE = Joseph G. Engelhard
JLP = Jules L. Pierce

FDR = Faye D. Rosser
JS = Jeheskel Shoshani
SLS = Sandra Lash Shoshani
TT = Tadmor Tadri

A system of categorizing references to assist readers in locating material was added in 1980 and has been continued here. For more detailed information, see pages 259-261 in Volume 1, Number 4. Code letters used in categorizing will appear in four columns in the left-hand margin to the right of the reference number of each item as given below.

Categories listed in the first column:

E = <u>Elephas</u>	* = extinct/fossil proboscideans
L = <u>Loxodonta</u>	+ = extinct and living taxa
B = Both <u>Elephas</u> and <u>Loxodonta</u>	U = unknown or not given

Categories listed in the second and third columns:

a = anatomy (including histology, cytology)	o = biochemistry (including haematology and immunology)
b = behavior	p = physiology and/or function
c = conservation and management	q = management in captivity
d = diseases and injuries	r = reproduction (including musth)
e = ecology	s = symbiosis (including commensalism, mutualism, parasitism)
f = folklore	t = training and taming
g = general	u = hunting including poaching
h = history (incl'g archaeology)	v = evolution (including classification, phylogeny, systematics, taxonomy, dating methods)
i = ivory and tusks	w = distribution and habitat
j = ecology and behavior	x = genetics
k = culling, controlling, cropping, and capturing methods	y = art
l = longevity (including mortality)	z = miscellaneous (including fiction)
m = measurements (physical and censusing)	
n = nutrition and/or growth	

Categories listed in the fourth column:

C = Captive and domestic	B = Both statuses
W = Wild	U = Unknown

Readers, please note that, because of computerized alphabetization, the order of references in some sections may not follow a chronological and conventional pattern.

RECENT LITERATURE ON ELEPHANTS: 1980 TO PRESENT

- 2230 **BrcC** Abeyratne, A.S. 1982. Elephant breeding - some scientific facts. *Loris*, 16(2):91-93.
The author believes that nutrition is the major factor in assuring breeding in captivity (RAC).
- 2231 ***wvU** Agenbroad, Larry D. 1985. The distribution and chronology of mammoths in the New World. *Acta Zool. Fennica*, 170:221-224.
- 2232 **LicW** Anonymous. 1986. Briefly... Illegal ivory seized in Portugal. *Oryx*, 20(July):185.
Customs officers at Lisbon Airport seized 1.3 tonnes of illegal ivory in a shipment of malachite from Zaire via London in November 1985 (BC).

- 2233 **BmcB** Anonymous. 1986. Briefly... Somalia joins CITES. *Oryx*, 20(July):185. The 91st Party to CITES.
- 2234 **LicW** Anonymous. 1986. Briefly... Tusks and skins seized. *Oryx*, 20(July):188. Police in northeastern Nigeria seized 445 elephant tusks and nearly 1,400 lizard and python skins in April 1986; they were believed to have been smuggled from the Central African Republic (BC).
- 2235 **BpbC** Anonymous. 1986. Elephant calls that humans can't hear. *Science News*, 129(8):122. Initial reports on research at Cornell University on low-frequency sounds (14-24 hertz) produced by captive elephants. See also Reference Nos. 2101 and 2375 (JLP).
- 2236 **BpbC** Anonymous. 1986. Elephant talk. *Science Digest*, 94(6):15. Report on Cornell University research on low-frequency calls emitted from an elephant's forehead. See also Reference Nos. 2101 and 2375 (FDR).
- 2237 **BicB** Anonymous. 1986. Horizons: Saving elephants: a mammoth task. *Swara*, 9(5):24-25. Optimistic comments on the new ivory export quota system developed by CITES. All the major ivory-producing countries of Africa established realistic export quotas for 1986 and were marking tusks with serial numbers and weights (SLS).
- 2238 **LucW** Anonymous. 1986. Horizons: Tanzania: Selous Game Reserve. *Swara*, 9(5):23. According to IUCN and the Tanzania Game Department, 95 elephants were taken legally in Selous in 1985 but an estimated 5,000 were taken illegally. Stricter controls are being prepared for this threatened World Heritage Site (SLS).
- 2239 **LicB** Anonymous. 1986. 1986 Ivory Export Quotas (Secretariat for Convention on International Trade in Endangered Species of Wild Fauna and Flora). *Pachyderm*, Number 6:18. List of quotas from African countries as of the end of January 1986 (BC).
- 2240 **LygW** Anonymous. 1986. *Wildlife News*: Kriek nets four elephant bulls. *Afri. Wildl.*, 40(6):258. South African tennis ace, Johan Kriek, won a set of 4 artist's proofs of elephant paintings of the greatest elephant bulls by Paul Bosman in a drawing organized by The Wildlife Society, The Endangered Wildlife Trust, and The National Parks Board (SLS).
- 2241 **Lc W** Anonymous. 1987. BBC Wildlife Ele-fund Contest. *BBC Wildlife*, 5(11):609.
- 2242 **Bc B** Anonymous. 1987. Briefly... 95 for CITES. *Oryx*, 21(3):184. The Dominican Republic ratified the convention, effective March 1987 (BC).
- 2243 **Bc B** Anonymous. 1987. Briefly... UAE leaves CITES. *Oryx*, 21(3):184. The United Arab Emirates has decided to withdraw from CITES, effective from the end of January 1988. See Reference No. 2245 (BC).
- 2244 **LpbC** Anonymous. 1987. Elephant history in the making. *Swara*, 10(6):25. "Elephant history is being made in the Nairobi National Park by the David Sheldrick Wildlife Appeal. For the first time, two tiny orphaned elephants have survived for four months, feeding only on artificial milk. If they survive beyond the age of two, they will be among the youngest ever to be hand reared." The baby elephants, Olmeg (Masai for outsider) and Oljori (meaning a friend) have been fed on a baby milk formula with a milk fat-free base to prevent "rejection" of non-elephant fat (JS).
- 2245 **Bi W** Anonymous. 1987. Horizons: United Arab Emirates withdraw from CITES. *Swara*, 10(4):22. Effective at the end of January 1988, United Arab Emirates will leave the convention. The CITES Secretariat has recommended that all CITES members discontinue all CITES trade with the UAE. See Reference No. 2243 (SLS).
- 2246 **LvbW** Anonymous. 1987. News from Specialist Groups: African Elephant and Rhinos. *SPECIES* (Newsletter of the Species Survival Commission), Number 8:34. Much attention was paid to a study of the west African pygmy elephant problem by David Western. He found that the "so-called pygmy elephants are in fact juvenile forest elephants, which have grown their tusks precociously." The study also

indicates that, in addition to the forest elephant, subspecies cyclotis, there is a larger one in the forests of West Africa which is a hybrid between cyclotis and the ordinary bush elephant, subspecies africana. This work is continuing with support from the Specialist Group. See Reference No. 2213 (SLS).

- 2247 **Lu W** Anonymous. 1987. Society Highlights: anti-poaching activities in Meru. Swara, 10(4):17.
A special anti-poaching operation in Meru National Park, Kenya, uncovered 900 kg of ivory hidden in the area (E/SLS).
- 2248 **La U** Baranga, J. 1984. The adrenal gland weights of the African elephant, Loxodonta africana. Z. Saugetierk, 49(6):341-348.
- 2249 **+z B** Bass, George F., and Bill Curtsinger. 1987. Oldest known shipwreck reveals splendors of the Bronze Age. National Geographic Magazine, 172(6):692-733. Among the items recovered from the ship "Ulu Burun" (which sank in the 14th century B.C. along the coast of present Turkey) were ivory pieces. Map on pages 697-699 depicts sources of ivory, and illustrations on pages 726-727 show how they were carved (JS).
- 2250 **+avU** Beden, Michel. 1983. Donnees nouvelles sur le dimorphisme et la croissance du crane chez les Elephantides actuels et fossiles. Bull. Soc. Zool., France, 108(4):654-663.
- 2251 ***v U** Beden, Michel. 1983. Family Elephantidae. Pp. 40-129, in Koobi Fora Research Project. Vol. 2. The fossil Ungulates: Proboscidea, Perissodactyla, and Suidae (John M. Harris, ed.). Clarendon Press, Oxford, 321 pp.
"Eight distinct elephantid taxa are recognized from the Plio-Pleistocene sequence east of Lake Turkana: Loxodonta adaurora adaurora, L. adaurora kararae, L. exoptata, Elephas recki brumpti, E. recki shungurensis, E. recki atavus, E. ileretensis, and E. recki recki." (page 94). This contribution also includes a phylogeny of these taxa (page 99), figures showing locations of measurements taken on cranium (page 102), on mandible (page 104), and data collected (pages 105-124) (E/JS).
- 2252 **LecW** Bell, Richard H.V. 1981. An outline for a management plan for Kasungu National Park, Malawi. Pp. 69-90, in Proceedings of Workshop on Locally Abundant Mammals, Cape Cod (P. Jewell, ed.), New York. See Reference No. 1880 in Elephant, 2(2), page 30.
- 2253 **Le W** Bell, Richard H.V. 1985. Letters to the editor: Elephants and woodland - a reply. Pachyderm, Number 5:17-18. See Reference Nos. 2302, 2304 and 2321.
- 2254 **Lj W** Bell, Richard H.V., and H. Jachmann. 1984. Influence of fire on the use of Brachystegia woodland by elephants. African J. Ecol., 22(3):157-163.
- 2255 **Lb C** Berg, Judith K. 1986. Report on the behavioral development of three captive born African elephant calves. Elephant, 2(2):39-42.
- 2256 **Lb C** Berg, Judith K. 1987. Developmental behavior of three African elephant calves (Loxodonta africana) in captivity. Zool. Garten, N.F., 57(2/3):171-196.
See Reference No. 2255.
- 2257 **LumW** Borner, M., and E. Severre. 1986. Rhino and elephant poaching trends in the Selous Game Reserve. Pachyderm, Number 6:3-4.
Results of this survey, conducted in 1984, indicate that poaching has increased and that the populations have entered a critical phase (E/SLS).
- 2258 **LcuW** Boshe, John. 1986. Wildlife law enforcement in Africa. Swara, 9(2):8-10.
- 2259 ***jvU** Bower, Bruce. 1987. Extinctions on ice. Science News, 132(18):284-285.
Report on a symposium at the Smithsonian Institution (Washington, D.C.) in which various hypothesis were discussed including environmental and human factors (JS).
- 2260 ***h U** Bower, Bruce. 1987. Prehistoric tusk: early boomerang? Science News, 132(14):215.
A carved mammoth tusk, dating to about 23,000 years ago, from a cave in southern Poland may be the "oldest boomerang" or a killing stick which did not return to the thrower. See also Reference Nos. 2383 (SLS).

- 2261 **Lj W** Braack, L.E.O. 1984. A note on the presence of the louse Haematomyzus elephantis Piaget (Mallophaga: Rhychophthirina) in the Kruger National Park. Koedoe, 27:139-140.
This insect is found in both species of elephants (Loxodonta africana and Elephas maximus) and is known to feed on blood. In African species the louse was found in the head and abdomen regions (JS).
- 2262 **LcjW** Butynski, Thomas M. 1986. Elephants in the Impenetrable (Bwindi) Forest, Uganda. Elephant, 2(2):42-43.
- 2263 **+avB** Cring, F. Daniel. 1986. Enamel prism patterns in proboscidean molar teeth. Elephant, 2(2):72-79.
- 2264 **Ly W** Cubitt, Gerald. 1987. The art of mammal photography. African Wildlife, 41(2):75-77.
General suggestions for photography in the wild and tips on equipment for a photographic safari. Three studies of an elephant drinking show the uses of various lenses on p. 77 (SLS).
- 2265 **LcgW** Cumming, David H.M., and Peter Jackson (eds.). 1984. The status and conservation of Africa's elephants and rhinos. Proceedings of the Joint Meeting of IUCN/SSC African Elephant and African Rhino Specialist Groups at Hwange Safari Lodge, Zimbabwe, 30 July - 7 August 1981. IUCN Publications, Gland, Switzerland, 195 pp.
- 2266 **EqtC** Dhungel, Sanat K. 1985. Drive net technique for capturing Asian deer. Tigerpaper, 12(3):30-33.
Deer are driven into drop or tangle nets with the aid of 4-10 domestic Asian elephants thrashing the vegetation with their trunks in Royal Chitwan National Park studies in Nepal (SLS).
- 2267 ***huU** Diamond, Jared. 1987. The American blitzkrieg: a mammoth undertaking. Discover, 8(6):82-84, 86, 88.
"Our hemisphere's first hunters may have wiped out an immense store of large mammals." (E/TT).
- 2268 ***h U** Dillehay, Tom D. 1984. A late Ice-Age site in southern Chile. Scientific American, 251(4):106-117.
"Almost all the animal bones unearthed at the site are from the carcasses of seven mastodons... the residents killed or scavenged the mastodons elsewhere and carried home only meat-bearing bones." (E/JS).
- 2269 **EwmB** Dobias, Robert J. 1987. Elephants in Thailand: an overview of their status and conservation. Tigerpaper, 14(1):19-24.
Author estimates that 1307 to 1710 elephants are present in 27 national parks and wildlife sanctuaries (plus seasonal migrants from Burma in the north and west). According to the Ministry of the Interior, there were 4,819 domestic elephants in 1982 (only 80 of which were government-owned). This number represents a large decline from the 1950 census figure of 13,397. Suggestions, existing programs and project proposals for conservation of wild and domestic elephants by the author, P. Storer, B. Lekagul, J. McNeely, and R. Lair are included (SLS).
- 2270 **LcmW** Douglas-Hamilton, Iain. 1983. Back from the brink. AERSG Newsletter, Number 1:13.
- 2271 **LcmW** Douglas-Hamilton, Iain. 1983. Elephants hit by African arms race. Pachyderm, Number 2:(Pages not available).
- 2272 **LcwW** Douglas-Hamilton, Iain. 1984. Elephant and rhino populations trends in Selous, Tanzania. Pachyderm, Number 4:18
- 2273 **LcmW** Douglas-Hamilton, Iain. 1984. Trends in key African elephant populations. Pachyderm, Number 4:7-9.
- 2274 **LmeW** Douglas-Hamilton, Iain. 1987. African elephant population study. Pachyderm, Number 8:1-10.
Elephant estimates up to the end of 1986 and a comparison of estimates for specific areas. A summary appears in Oryx, 21 (January):11-14. See Reference No. 2275 (SLS).

- 2275 **LcwW** Douglas-Hamilton, Iain. 1987. African elephants: population trends and their causes. *Oryx*, 21(January):11-24.
The author examines the causes of the decline of the elephant populations in various regions of Africa. Illegal killing is still the most important factor affecting the animal's survival. See Reference No. 2274 (JLP).
- 2276 **Bt C** Dudley, Joseph P. 1986. Notes on training captive elephants. *Elephant*, 2(2):15-18.
- 2277 **EbyC** Ehmann, James. 1987. The elephant as artist. *National Wildlife*, 25(2):26-28.
A short segment from "To whom it may concern: an investigation of the art of elephants" (See Reference No. 1970), written by David Gucwa and James Ehmann. Two pieces of Siri the elephant's work are included in this article (JLP).
- 2278 **EybC** Ehmann, James. 1987. An elephant who draws pictures. *Readers Digest*, 131(786):96-99.
Condensed from *National Wildlife*, 25(2):26-28. See also Reference Nos. 1970 and 2277 (JLP).
- 2279 **EgbU** Eisenberg, J.F. 1980. Recent research on the biology of the Asiatic elephant (*Elephas m. maximus*) on Sri Lanka. *Spolia Zeylanica*, 35(1&2):213-218.
- 2280 **La W** Fischer, Martin S. 1987. Die Oberlippe der Elefanten. *Z.F. Saugertierkunde*, 52(4):262-263.
- 2281 **EctC** Fitter, Richard. 1987. How and why we should conserve species. *IUCN Bulletin*, Special Report, 18(1-3):8.
Excerpts from the author's book "Wildlife for man". In Burma elephants extract half of the country's timber (JLP).
- 2282 ***v U** Garutt, V.E. 1986. Origin of elephants. Elephantidae and their phylogeny. *Mammals of the Quaternary Fauna of the USSR*. USSR Academy of the Sciences, Proceedings of the Zoological Institute (Leningrad), Vol. 149:15-32. (In Russian, with English summary.)
The paper reports the main morphological characters of subfamilies, genera, and species; the origin of elephants (Gomphotheriidea) and proposed region of their origin (eastern equatorial Africa) are analyzed (E/SLS).
- 2283 **Bq C** Hall, Elizabeth. 1983. Lord of the ring: PT conversation with Gunther Gebel-Williams. *Psychology Today*, 17(10):27-32.
"The elephant is absolutely the smartest,...", according to the world famous trainer with 35 years of experience in the circus.
- 2284 **LijW** Hall-Martin, Anthony. 1987. Kruger's magnificent seven still capture the imagination. *Custos*, 16(3):16-25 (in Afrikaans), 26-29 (in English).
Includes color photographs of elephants with large tusks, or their tusks alone, from Kruger National Park, Republic of South Africa. Names of individual elephants mentioned in this article are: Dzombo, Joao, Kambaku, Mafunyane, Ndlulamithi, Shawu, Shingwedzi (JGE).
- 2285 ***e U** Hallin, Kurt F. 1986. The mastodont's new clothes. *Lore*, 36(2):17-19.
A report on a mastodont excavation by Milwaukee Public Museum's geology section which yielded two samples of very fine hollow guard hair and a furry undercoat identified by scanning electron microscope. See Reference No. 1977 in *Elephant*, 2(2):239 (SLS).
- 2286 ***v U** Harrington, C.R. 1984. Mammoths, bison and time in North America. Pp. 299-309, in *Quaternary dating methods* (W.C. Mahaney, ed.). Elsevier, New York, 431 pp.
- 2287 ***v U** Harris, John M. 1983. Family Deinotheriidae. Pp. 22-39, in *Koobi Fora Research Project*. Vol. 2. The fossil Ungulates: Proboscidea, Perissodactyla, and Suidae (John M. Harris, ed.). Clarendon Press, Oxford, 321 pp.
"At present two deinotheria genera are recognized - *Prodeinotherium* and *Deinotherium*. *Prodeinotherium hobleyi*, the earliest representative, is common in early Miocene..." *D. bozasi* had replaced *P. hobleyi* in Africa by the beginning of the Pliocene. This chapter also includes data (pages 35-38) (E/JS).

- 2288 *vhU Harris, John M., and George T. Jefferson (eds.). 1985. Rancho La Brea: treasures of the tar pits. University of Washington Press, Seattle, 87 pp.
One of the world's richest deposits of Ice Age fossils lies in the Los Angeles Basin; fossils ranging from mammoth skeletons to pollen from 4,000 to 40,000 years ago have been recovered (E/Earth Science, Winter 1985).
- 2289 Lp U Hattingh, J. 1984. Effects of etorphine and succinylcholine on blood composition in elephant and buffalo. S. African J. Zool., 19(4):286-290.
- 2290 *v U Haynes, C. Vance, Jr. 1985. Mastodon-bearing springs and Late-Quaternary geochronology of the Lower Pomme de Terre Valley, Missouri. The Geological Society of America, Special Paper No. 204:1-35.
- 2291 Le W Haynes, Gary. 1986. Taphonomic studies of elephant mortality in Zimbabwe. Elephant, 2(2):69-71.
- 2292 LjlW Haynes, Gary. 1987. Where elephants die. Natural History, 96(6):28-33.
Photographs by G. Haynes. During droughts, elephant waterholes often provide life - sustaining resources for many animals. These places also enable researchers to study dying and dead elephants (SLS).
- 2293 EiuW Hellier, Chris. 1987. India bans its own ivory. BBC Wildlife, 5(3):137.
An upsurge of poaching has prompted the Indian government to ban all trade in Indian ivory and ivory products (JLP).
- 2294 LuzW Hemingway, Ernest. 1986. An African betrayal. Sports Illustrated, 64(18):58-62, 64-72.
An edited story assembled from parts of Hemingway's posthumously published "Gardens of Eden". It deals with the hunting and killing of a very large African bull elephant (JLP).
- 2295 EpbC Hildebrand, Milton, and James P. Hurley. 1985. Energy of the oscillating legs of a fast-moving cheetah, pronghorn, jackrabbit, and elephant. Journal of Morphology, 184(1):23-31.
- 2296 Ew W Hill, J.E. 1980. The mammals of Sri Lanka. Spolia Zeylanica, 35(1 & 2):203-221.
- 2297 *v U Hooijer, D.A. 1984. *Mammuthus meridionalis* (Nesti) and *M. armeniacus* (Falconer) from the North Sea. Proc. Konink. Nederlandse Akad. Wetensch., 87(3):335-359.
- 2298 *v U Hooijer, D.A. 1985. Plio/Pleistocene elephantid, equid and rhinocerotid remains from dredging operations at Linden and Maren-Kessel (Noord-Brabant, The Netherlands). Lutra, 28(1):31-37.
- 2299 LarW Howard, JoGayle, M. Bush, V. de Voss, and D.E. Wildt. 1984. Electroejaculation, semen characteristics and serum testosterone concentrations of free-ranging elephants (*Loxodonta africana*). J. Reprod. Fert., 72(1):187-195.
- 2300 LalW Jachmann, Hugo. 1985. Estimating age in African elephants. Afr. J. Ecol., 23:199-202.
- 2301 LmwW Jachmann, Hugo. 1986. Notes on the population dynamics of the Kasungu elephant. Afr. J. Ecol., 24:215-226
- 2302 Le W Jachmann, Hugo. 1987. Elephants and woodlands (II). Pachyderm, Number 8:11-12.
See Response to this article in Reference Nos. 2321, 2322, and 2253.
- 2303 LalW Jachmann, Hugo. 1987. Estimating age in African elephants (II): revising Laws' molar evaluation technique. Afr. J. Ecol., 25.
- 2304 Le W Jachmann, Hugo, and Richard H.V. Bell. 1984. Why do elephants destroy woodland? Pachyderm, Number 3:9-10. See Reference No. 2321.
- 2305 Lj W Jachmann, Hugo, and Richard H.V. Bell. 1985. Utilization by elephants of the Brachystegia woodlands of Kasungu National Park, Malawi. Afr. J. Ecol., 23:245-258.
- 2306 Ec W Jackson, Peter. 1986. Running out of room! Internat. Wildlife, 16(5):4-11.
"For conservationist and government officials in India and Southeast Asia, the challenge is to find ways to reduce this conflict and reconcile the demands of a growing human population with the needs of the 30,000 to 44,000 wild Asian elephants still left on Earth. The crux of the problem is the animals' need for large areas of forest and grassland." (E/JKB).

- 2307 **EckW** Jayewardene, Jayanthe. 1986. Elephant conservation amidst development (Part II). Tigerpaper, 13(3):4-8.
The second article by this author dealing with relocating Sri Lanka elephants away from areas of human habitation. Part I (Reference No. 2014) an elephant drive was used to move 70 animals to Wilpattu National Park in March 1983. Here the author discusses methods of moving remaining elephants and results of a small pilot capture project in 1985 (JLP).
- 2308 ***v U** Johnson, P. H., C.B. Olson, and M. Goodman. 1985. Prospects for the molecular biological reconstruction of the woolly mammoth's evolutionary history: isolation and characterization of deoxyribonucleic acid from the tissue of Mammuthus primigenius. Acta Zool. Fennica, 170:225-231.
- 2309 **BgzC** Kawata, Ken. 1987. Trouble by the ton: our elephant dilemma. Pp. 530-536, in Proceedings of the AAZPA Great Lakes Regional Conference, St. Louis, Missouri, 27 April 1987.
- 2310 **Eo C** Kerr, Ellen A., Nai-Teng Yu, David E. Bartnicki, and Hiroshi Mizukami. 1985. Resonance Raman studies of carbon monoxide and oxygen binding to elephants myoglobin [distal His (E7) --> Gln]. J. Biol. Chem., 260(14):8360-8365.
See Reference Nos. 2315, 2338, and 2398.
- 2311 ***a U** Kleinschmidt, A. 1983. The problem of sagittal gaps of the spinous processes of thoracic vertebrae of the mammoth, Mammuthus primigenius (Blumenbach) of the late glacial period. Braunschweig Naturk. Schr., 1(4):751-761.
(In German, English summary).
- 2312 **EqrC** Kock, Nancy, and Michael Kock. 1984. Management of two Indian elephants (Elephas maximus indicus) in a Middle Eastern zoo. Annual Proceedings of Am. Assoc. of Zoo Vets, 23:75-81.
Description of general management of elephants at the Doha Zoological Gardens, India, with special notes on the onset of musth and various methods employed by the keeper to handle the male during musth and to determine when the end of this period had arrived (including some folklore, tradition and physical 'testing') (RAC).
- 2313 ***hiU** Krause, Hans. 1986. Elephants at the Arctic sea: how they lived, how they perished. Vol. 1 Rekha Printers Pvt. Ltd., New Delhi-110020 (India), 154 pp.
Title is misleading, text is disjointed and distorted. See also Reference No. 968 (JGE).
- 2314 ***o U** Kreps, E.M., et al. 1982. A study into lipids of the brain of an adult mammoth Mammuthus primigenius which perished over 50,000 years ago. Trudy Zool. Inst. Leningrad, 111:18-27.
(In Russian). See Reference No. 1446.
- 2315 **Eo C** Krishnamoorthi, Ramaswamy, Gerd N. La Mar, Hiroshi Mizukami, and Alex Romero. 1984. A proton NMR investigation of the influence of distal glutamine on structural and dynamic properties of elephant metmyoglobin. J. Biol. Chem., 259(1):265-270.
See Reference Nos. 2310, 2338, and 2398.
- 2316 **Lb C** Lake, Ellen Katy. 1986. Adjustment process of African elephants to a novel situation. Elephant, 2(2):32-38.
- 2317 ***v U** Lambert, David, and the Diagram Group. 1985. The Field Guide to Prehistoric Life. Facts on File Publications, New York, 256 pp.
"... First attempt to present to the amateur fossil hunter a complete systematic means of identifying and understanding fossil life." Proboscidean family tree is outdated and nomenclature is old. Appearance of material is eye-catching but the amount of information is limited (SLS).

- 2318 **LuwW** Largen, M.J., and D.W. Yalden. 1987. The decline of elephant and black rhinoceros in Ethiopia. *Oryx*, 21(2):103-106.
In Ethiopia the authors have noted a sharp decline in elephant numbers resulting from the destruction of natural habitat, harassment by an ever-expanding human population and rampant poaching (JLP).
- 2319 **LmcW** Lawley, J.C. 1986. Letters: some progress, but concern remains about Namibia's desert rhinos and elephants. *Oryx*, 20 (July):182.
Elephant numbers in Damaraland in November 1985 were static at about 80; six animals survive in Kaokoland. Poaching is being contained (E/SLS).
- 2320 **BpeC** Lillywhite, H.B., and B.R. Stein. 1987. Surface sculpturing and water retention of elephant skin. *J. Zool. (London)*, 211:727-734.
"Retention of water by casts of integument is 4.5-10 times greater than that of flat surfaces and is greater in African elephants than in Asian elephants. Both species lack sebum and sweat glands and require regular wetting of their skin." (E/SLS).
- 2321 **Le W** Lindsay, Keith, and R. Olivier. 1984. Letters to the editor: Comments on: Why do elephants destroy woodland? *Pachyderm*, Number 4:20.
Commentary on article by Jachmann and Bell in AERSG Newsletter Number 3, 1984.
- 2322 **Le W** Lindsay, Keith. 1986. Letters to the editor: elephants and woodlands - what are the issues?" *Pachyderm*, Number 7:16-18.
Continuing dialogue on the issue - original article appeared in AERSG Newsletter, Number 3(1984) authored by Jachmann and Bell (SLS).
- 2323 **Lc W** Mackay, Margo. 1987. Reprieve for the Knysna elephants. *African Wildlife*, 41(6):305. See also Reference No. 2029.
- 2324 ***vhU** Madden, Cary T. 1980. Earliest isotopically dated *Mammuthus* from North America. *Quaternary Research*, 13:147-150.
- 2325 ***vhU** Madden, Cary T. 1981. Origin(s) of mammoths from Northern Channel Islands, California. *Quaternary Research*, 15:101-104.
- 2326 ***vwU** Madden, Cary T. 1983. More earliest isotopically dated *Mammuthus* from North America. *Quaternary Research*, 19:275-277.
- 2327 ***v U** Madden, Cary T. 1984. Classification of the Proboscidea. Part I. *J. Palaeontol. Soc. India*, 28:59-60.
- 2328 ***vaU** Madden, Cary T. 1985. On a single elephant tooth: most primitive mammoth from Atlantic Coastal Plain of Southeastern United States. *Southeastern Geology*, 25:207-211.
- 2329 **LicW** Martin, Esmond Bradley. 1985. Malawi's ivory carving industry. *Pachyderm*, Number 5:6-11.
"Indeed, Malawi's elephants are far better conserved than in most countries of Africa, thanks to constructive measures taken, especially during the past two years. Nevertheless, in the neighbouring countries where economic constraints are grave, the temptation to poach is rife and ... people will continue to do so." Malawi's ivory carving industry dates to the 1920's and trade in raw ivory goes back to the 16th century. "It cannot be said that the ivory industry is reducing the elephant population of Malawi, for that has remained more or less stable since 1977,..." (E/SLS).
- 2330 **LimW** Martin, Rowan. 1985. New procedures for controlling the ivory trade. *Pachyderm*, Number 5:16-17.
At the 5th Meeting of the parties to CITES in April 1985, a resolution introducing a quota system for African ivory was adopted. The main features are: (1) ivory producing countries will set quotas for export in 1986, (2) all existing stocks of ivory will be registered by the end of 1986, (3) an Ivory Unit will be established with the CITES Secretariat which will maintain a data bank of registration numbers of all tusks likely to be in trade or presently in trade, and (4) the CITES Management Authority in the exporting country will confirm authenticity of shipments with the authority in the importing country prior to importation of a shipment. Copies of all documents will be sent to the CITES Ivory Unit (E/SLS).

- 2331 **LhzW** Matthee, Dalene. 1984. *Circles in a forest*. Viking, New York, 368 pp.
 "Circles in a forest is the moving story of one man's fight to save the vanishing world of his inheritance." A film on the Knysna Forest elephants is being made from this book (JGE).
- 2332 ***v U** Mebrate, A., and J.E. Kalb. 1985. Anancinae (Proboscidea: Gomphotheriidae) from the Middle Awash Valley, Afar, Ethiopia. *J. Vert. Paleontol.*, 51(1):93-102.
- 2333 **LceW** Melton, D.A. 1985. The status of elephants in northern Botswana. *Biological Conservation*, 31(4):317-333.
- 2334 ***a U** Mikhelson, V.M., et al. 1982. State of cytological preservation of the tissues of the Khatanga mammoth. *Trudy Zool. Inst. Leningrad*, 111:27-29. (In Russian).
- 2335 **BgzU** Miller, Gustavus H. 1984. *The dictionary of dreams (10,000 dreams explained)*. Arco Publishing, Inc., New York, 617 pp. + xvii (for Index).
 To dream of riding an elephant is on page 215.
- 2336 **BicB** Milliken, Tom. 1985. Recent developments in the Japanese ivory trade and the implementation of CITES in Japan. *Pachyderm*, Number 5:15-16.
 In December 1984 the Ivory Importers' Group (Zoogei Bukai) was established within the Japan General Merchandise Importers' Association. This organization includes 25 ivory importing companies and two ivory associations of Japan, 98% of the members of the ivory import trade. At Zoogei Bukai meeting on February 8, 1985, the following four resolutions were passed: (1) "We will try to decrease the amount of imports and refrain from re-exporting ivory, in order to secure the regular import of ivory, (2) We will co-operate with the African countries in the export quota system which is now under consideration, (3) We will support the establishment of the Ivory Unit at the CITES Secretariat, (4) We will co-operate with and exchange information with the CITES Secretariat, TRAFFIC (Japan) and WWF Japan." (E/SLS).
- 2337 **Eb C** Mishra, Hemanta Raj, and Eric Dinerstein. 1987. Relocating rhinos in Nepal. *Smithsonian Magazine*, 18(6):66-73.
 Captive elephants are used in harsh terrain (JS).
- 2338 **BpqC** Mizukami, Hiroshi, and David E. Bartnicki. 1986. Unusual myoglobin of elephant. *Elephant*, 2(2):80-81.
 See Reference Nos. 2310, 2315, and 2398.
- 2339 **BtgC** Moore, Donald E., and Charles D. Doyle. 1986. Elephant training and ride operation. Part I: animal health, cost/benefit and philosophy. *Elephant*, 2(2):19-31.
- 2340 **LjrW** Moss, Cynthia. 1988. *Elephant memories*. William Morrow and Company, Inc., 336 pp.
 Contains many new thoughts on the births of the African species, particularly with regard to social relationships, and musth. Discussions include chronological herd dynamics and family trees in view of the long term studies that has been conducted in the Amboseli ecosystem. The bibliography includes only publications from the Amboseli Elephant Research Project. Poignantly written, well illustrated with photographs, maps and drawings. See also Reference Nos. 43, 132, 459, 881, 1477-1479, 1498, and 2082-2083 in previous issues of *Elephant* (JGE).
- 2341 ***a U** Musil, R. 1983. The occurrence of gaps in spinous processes of vertebrae of the mammoth, *Mammuthus primigenius* (Blumenbach) in the collection of the Moravske Museum in Brno (CSSR) in the Braunschweig. *Naturk., Schr.*, 1(4):745-749.
 (In German, English Summary).
- 2342 **EcwW** Nash, Stephen V., and Anne D. Nash. 1986. The elephants of Padang-Sugihan, Sumatra. *Tigerpaper*, 13(4):28-29.

A report of an ongoing study of the Padang-Sugihan reserve, to determine if the area can support the large population (232) of Sumatran elephants (Elephas maximus sumatranus) which was driven to the area to protect the newly established farmland (JLP).

- 2343 **LuhW** Olds, Elizabeth Fagg. 1985. Women of the four winds. Houghton Mifflin, Boston, 318 pp.
Biographies of four women explorers, maps and ill. Pp. 71-153 deals with the life of Delia J. Akeley (1875-1970), Carl Akeley's first wife who participated in Carl's first two African expeditions to collect specimens for Chicago's Field Museum and the Museum of Natural History. It was during their first expedition that Delia killed the large bull elephant which is in the group displayed in the Field Museum. After her divorce from Carl she wrote, lectured and collected specimens in Africa for museums (JLP).
- 2344 **Lc W** Omar, H.S. 1981. Save the elephants from extinction in Somali. Somali Range Bulletin, 12:67-70.
- 2345 **LmwW** Otticholo, W.K. 1986. Population estimates and distribution patterns of elephants in Tsavo ecosystem, Kenya, in 1980. Afr. J. Ecol., 24:53-57.
- 2346 **EqbC** Packwood, Ray. 1986. Elephant mania! Chez Nous (Chester Zoo News), Summer:3-5.
Account by Senior Elephant Keeper at the Chester Zoo, England, of familization between 2 adult female Asian elephants from Aalborg Zoo, Denmark, and two adult females and a male calf at Chester Zoo, while Belfast Zoo, Ireland, modifies its facility (over 2 years) to accommodate the additional two elephants (SLS).
- 2347 **Lc W** Parker, Ian. 1983. The Tsavo story: an ecological case history. Pp. 37-49, in Management of large mammals in African conservation areas (R.N. Owen-Smith, ed.). Haum Educational Publishers, Pretoria, 297 pp.
- 2348 **EprC** Parker, Julia. 1984. Preparations for artificial insemination in two Asian elephant cows. Animal Keepers Forum, 11(12):420-423.
Paper presented at the 10th National American Association of Zoo Keepers (AAZK) Conference in October 1984. At Santa Barbara Zoo, artificial insemination procedures have been established on a regular basis in preparation for future insemination since the zoo has no plans for housing a bull (JKB).
- 2349 **Lk W** Parry, D. 1983. Slaughterhouse of the giants. Quagga, 7:32-33.
- 2350 **LbyW** Pickford, Peter D. 1987. An interlude with elephants. Afri. Wildl., 41(2):71.
A photographic account of "pronounced and extended aggression" between two young males by a professional wildlife photographer which includes evidence of a tusk broken in combat (SLS).
- 2351 **LciW** Pilgram, T., and D. Western. 1984. Managing elephant populations for ivory production. Pachyderm, Number 4:9-11.
- 2352 **Lz C** Plowden, Gene. 1984. Circus press agent: the life and times of Ronald Butler. The Caxton Printers, Ltd., Caldwell (Idaho), 131 pp.
Includes a photograph (on p. 37) of the forest African elephants (Loxodonta africana cyclotis) in front and side views (EAB).
- 2353 **Lc W** Poche, R.M. 1980. Elephant management in Africa. Wildlife Soc. Bull., 8:199-207.
- 2354 **LrjW** Poole, Joyce H. 1987. Elephants in musth, lust. Natural History, 96(11):47-55.
"As their sexual appetite rises, bull elephants lower their voices." "Elephants from two families greet each other, holding heads and ears high and uttering loud, throaty rumbles. The dark lines visible on the faces of some of the elephants are secretions from the temporal gland behind the eye. In the females and young males, such secretions are watery and unrelated to sexual condition. But when mature males enter musth - a period of heightened sexual activity - the fluid becomes darker, sticky, and longer-lasting stain." (E/BC).

- 2355 ***yhU** Praslov, N.D. 1986. A mammoth figurine from site Kostenki 1 found in 1985. Mammals of the Quaternary Fauna of the USSR, USSR Academy of the Sciences, Proceedings of the Zoological Institute (Leningrad), Vol. 149:107-108. (Summary in English.) A figurine of a mammoth carved from calcareous slab was found in the upper cultural layer of site Kostenki 1; length is 40 mm, height 35 mm (E/SLS).
- 2356 **EcmW** Ramachandran, K.K., P.S. Easa, and P. Vijayakumaran Nair. 1987. Management of Periyar Tiger Reserve - problems and perspectives. Tigerpaper, 14(1):25-33. A total of 800 elephants is estimated to be present in this reserve in Kerala State, India, with an overall density of one elephant per square kilometer. There have been incidents of shooting elephants for their tusks; this fact and other intrusions by man indicate that intervention by managers is essential for this wildlife sanctuary (E/SLS).
- 2357 **Ec W** Ratnam, Louis. 1987. Moving elephants in Malaysia. SPECIES (Newsletter of the SSC), Number 9:31. "Between 1974 and 1986 the Malaysian Wildlife Department successfully transported 90 wild elephants, including latterly some of the bulls, by both road and river." (E/BC).
- 2358 **EbjW** Redmond, Ian, Naresh Bedi, and Rajesh Bedi. 1987. The secret life of the other elephant. BBC Wildlife, 5(12):644-648. Text by Redmond, photography by the Bedis. Fabulous scenes in the wild (JS).
- 2359 **LckW** Redmond, Ian. 1986. Islands of elephants. BBC Wildlife, 4(11):568-573. The author, well known for his studies of the cave elephants of Kenya's Mount Elgon National Park, discusses the various factors contributing to the decline of elephant populations in Africa and possible plans for protecting and relocating the herds. See Reference No. 2361 (JLP).
- 2360 **LicW** Redmond, Ian. 1987. Elephants need you. BBC Wildlife, 5(11):608-609.
- 2361 **LckW** Redmond, Ian. 1987. Island of elephants. Swara, 10(2):14-19. This same article appeared previously in BBC Wildlife, 4(11):568-573. Does the international ivory trade or the growth in human numbers pose the greatest long-term threat to the African elephant? (JLP).
- 2362 **Lj W** Redmond, Ian. 1987. Pygmy pachyderm is a tall tale. BBC Wildlife, 5(11):558-559.
- 2363 **LihW** Resnick, Mike. 1986. Stalking Jumbo... 88 years later. Swara, 9(6):30-31. The jumbo in the title refers to the size of the Kilimanjaro Elephant whose tusks (now in the British Museum of Natural History) weigh over 200 pounds each, the largest ever recorded. The author relates his attempt to trace the animal's final journey to its death 88 years ago (JLP).
- 2364 **Bb W** Riedman, Marianne L. 1982. The evolution of alloparental care and adoption in mammals and birds. Quarterly Review of Biology, 57(4):405-435. "Alloparental care (care of the newborn by individuals other than the genetic parents of the offspring) and adoption of young, apparently altruistic and reproductively costly behaviors, have been reported in over 120 mammalian and 150 avian species. Animals characterized by one or more of the following reproductive or social features, most of which are typical of k-selected species: (1) production of single offspring; (2) prolonged or energetically intensive parental investment; (3) limited lifetime reproduction output; (4) small groups with tight kinship bonds; (5) highly social or cooperative group structure; and (6) young that are raised in high-density breeding colonies." (E/JS).
- 2365 **LjmW** Roth, H.H., G. Merz, and B. Steinhauer. 1984. Repartition et Statue des grandes mammiferes en Cote d'Ivoire. Mammalia, 48(2):207-226.

"Occurrence of elephants depends on the local density of the human population and the extent of non-inhabited forest reserves. Savanna elephants (*L. a. oxyotis*) range over approx. 23,800 km sq. of which 72% have a legal conservation status; Forest elephants (*L. a. cyclotis*) inhabit approx. 29,400 km sq. of which 73% are legally conserved. The total range of elephants in the Ivory Coast has diminished since the beginning of the century by about 83% and comprises today less than 17% of the countries' surface." "Elephants are disintegrated into 35-40 more or less isolated populations which vary in size from a few individuals to more than a thousand.... The total population of Savanna elephants is estimated at 1,790 and that of Forest elephants at 3,050. Despite total legal protection, about 90 elephants were killed every year in control operations and an estimated minimum of 300 elephants illegally by poachers." "... the total elephant population decreases annually by about 10%. Survival of elephants in the Ivory Coast depends entirely on improved protection against poaching ..." (E/JS).

- 2366 +amU Roth, V. Louise. 1984. How elephants grow: heterochrony and the calibration of developmental stages in some living and fossil species. *J. Vert. Paleontol.*, 4(1):126-145.

The author presents base line information on ontogeny in Recent elephants (*Loxodonta africana* and *Elephas maximus*) and some preliminary comparisons with fossil specimens (*Mammuthus exilis*, *M. columbi*, and *Elephas falconeri*). Size, skeletal fusion and dental stages are similar in *L. africana* and *E. maximus*. Among *L. africana*, *E. maximus*, and *M. columbi*, animals of similar size have similar limb proportion; the largest individuals of *Loxodonta* and *Mammuthus* have exaggerated proportions (E/JS).

- 2367 EcwW Salter, R.E. 1986. Evaluation and monitoring of Asian elephant habitat: problems and some potential solutions. *Tigerpaper*, 13(4):5-9.

An outline of mechanisms for evaluating the suitability of areas for elephant ranges where Asian elephants can be separated from regions of human habitation (JLP).

- 2368 Ec B Santiapillai, Charles, Memet Soekarno, and Widodo Sukohadi. 1987. Management of elephants in Thailand. *Tigerpaper*, 14(2):7-14.

Estimated numbers of elephants in Thailand may be anything between 2,600 and 4,450. Today perhaps only 1,000 survive in the wild (E/JS).

- 2369 +gvB Savage, R.J.G., and M.R. Long. 1986. *Mammal evolution: an illustrated guide.*

Facts on File and the British Museum (Natural History), New York, 259 pp.

The author of the text (RJGS) and the illustrator (MRL) have done a marvelous job in presenting the story of mammalian changes through time. The illustrations are vivid and convey a great amount of information. The chapter on elephants (pages 143-159) is particularly well summarized and beautifully illustrated. I purchased this book for the clarity with which the material is presented. I had some problems with this book, but these I am sure will not deter from its value (JLP).

- 2370 ErqC Schmidt, Michael J. 1982. Studies on Asian elephant reproduction at the Washington Park Zoo. *Zoo Biology*, 1(2):141-147.

Brief notes on the elephant research program begun in 1974 to develop a practical program of artificial insemination. Estrus detection by a bull, serum hormone radioimmunoassay, pheromone study, and pregnancy detection using serum steroid hormone concentrations, fetal electrocardiographs and ultrasound are included (RAC).

- 2371 Lb C Sheldrick, Daphne. 1987. Raising a baby rhino. *Swara*, 10(5):15-17.

The Tsavo orphan elephants are raised with the rhinos. See also pages 30 and 33 in the same *Swara* issue (EAB).

- 2372 Lj W Shoshani, Jeheskel, and Rafael Geron. 1986. Field observations of living and dead elephants (including some interpretations), in Kenya, Uganda, and Zimbabwe. *Elephant*, 2(2):44-68.

- 2373 **BmqC** Shoshani, Sandra Lash (compiler). 1986. Captive elephant population of North America: 1986. *Elephant*, 2(2):123-130.
A total of 698 elephants was held in North America (as of October, 1986). The births and deaths summary reads: "Since August 1, 1982, there have been 7 births of Africans, of which 1 has died, and 15 Asians, of which 4 have died. Total number of deaths since March 2, 1978, recorded in *Elephant*, 2(1):149-150 and in this issue: 30 Africans and 51 Asians." (BC).
- 2374 **Lh C** Shoshani, Sandra Lash, Jeheskel Shoshani, and Fred C. Dahlinger. 1986. Jumbo: origin of the word and history of the elephant. *Elephant*, 2(2):86-122.
- 2375 **LbeW** Shreeve, James. 1987. The gregarious giant. *Science Illustrated*, 1(5):12-21.
"Unheard by tourist, tribesman, or poacher, elephants miles apart may be conversing in the ghostly voices of earthquakes and far-off thunder. The clue to this discovery was the strange throbbing one sometimes feels around the great beasts, rather like the lowest notes of a church organ." See Reference Nos. 2235 and 2236 (E/EAB).
- 2376 **Lc W** Smith, David Lovatt. 1986. Amboseli: nothing short of a miracle. East African Publishing House Ltd, Nairobi, Kenya, 95 pp.
"The 'miracle' of the title refers to the sudden enormous increase, late in 1957, in the output of the springs that feed the Ngong Narok swamp.... These events... resulted in a six-fold increase in available water in the core area of Amboseli and a consequent respite in the then critical competition for watering places between wildlife and the ever-increasing Masai herds.... In the final chapter... the author attributes the disappearance of the Ol Tukai and other woodlands solely to the over-abundance of elephants." from *Oryx*, 21(3):197-198 (E/SLS).
- 2377 ***hvU** Soffer, Olga. 1985. The Upper Paleolithic of the central Russian Plain. Academic Press, Inc., Orlando, Florida, 539 pp.
The author used data from 29 major sites to generate a new model of human ecology in the late Pleistocene (E/SLS).
- 2378 ***vhU** Sondaar, Paul Y. 1986. The island sweepstakes. *Natural History*, 95(9):50-57.
Fossils of pig-sized elephants have been found on islands of the Mediterranean Sea. The author considers the questions of why deer, elephants and hippos became isolated on these islands, and why these fossils often show the same trends in body structure. (E/SLS).
- 2379 **BghB** South, Malcolm (ed.). 1981. Topsell's histories of beasts. Nelson-Hall, Chicago, 185 pp.
Pages 86-97 include "The Elephant". Topsell, Edward 1572-1625?
- 2380 **LcmW** Spinage, Clive A. 1985. The elephants of Burkina-Faso, West Africa. *Pachyderm*, Number 5:2-5.
"Burkina-Faso has a growing human population of over six million inhabitants and is classed amongst the poorest nation of the world, while the increasing drought of recent years has compounded its problems of land misuse and malnutrition. Official policy is nevertheless to preserve its remaining elephants, but such preservation can only be effective with outside financial support." Population estimates from FAO surveys 1981-1982:2920 (E/SLS).
- 2381 **Eh C** Thayer, Stuart. 1986. Tippoo Sultan - the man and the beast. *Elephant*, 2(2):82-85.
- 2382 **LweW** Tyrrell, J.G. 1985. Distribution of elephants in the Tsavo region during the late 19th century. *African J. Ecol.*, 23(1):29-33.
- 2383 ***hvU** Valde-Nowak, Pawel, Adam Nadachowski, and Mieczyslaw Wolsan. 1987. Upper Palaeolithic boomerang made of a mammoth tusk in south Poland. *Nature*, 329(6138):436-438.
Also in the same issue of *Nature* on page 388, Paul G. Bahn discusses the features of this boomerang and the fact that an experiment should be conducted with a cast to verify if the boomerang returns to the thrower. "No such experiment has yet

- been done for the Polish find, and meanwhile Valde-Nowak et al. are basing their claim on its shape, its curvature and the flattening at both ends." In addition, an excerpt from Discover Magazine (March 1988, Vol. 9, No. 3, page 18) reads: "This crescent of mammoth tusk, dug up in Poland, could be the world's oldest boomerang (about 23,000 years old)." See Reference No. 2260 (E/JS).
- 2384 *vmU Vereshchagin, N.K., and A.N. Tikhonov. 1986. A study of mammoth tusks. Mammals of the Quaternary Fauna of the USSR, USSR Academy of the Sciences, Proceedings of the Zoological Institute (Leningrad), Vol. 149:3-14. (Summary in English.). 187 tusks were studied for type and rate of growth of tusks; sex ratio was 1:1, age of maturation averaged 20 years, and maximum life duration was 75-80 years (E/SLS).
- 2385 Lc W Verschuren, J. 1981. Senegal's disappearing elephants. Oryx XVI:118-119.
- 2386 Lc W Verschuren, J. 1982. Hope for Liberia. Oryx XVI:421-427.
- 2387 LweW Villiers, P.A., de, and O.B. Kok. 1984. Verspreidingspatrone van Olifant (*Loxodonta africana*) in Suidwes - Afrika met spesiale verwysing na die Nasionale Etoshawildtuin. Madoqua, 13(4):281-296. (In Afrikaans, English summary).
- 2388 LiuW Wells, Michael P., and Iain Douglas-Hamilton. 1986. Analysis of tusks from the Central African Republic. Pachyderm, Number 6:16-17. A mortality pattern derived from the tusk sample suggests selective hunting by poachers in Gounda-St. Floris National Park of a very young population (no tusks from animals over age 35, with most from sexually immature elephants) (E/SLS).
- 2389 LjwW Western, D., and W.K. Lindsay. 1984. Seasonal herd dynamics of a savanna elephant population. African J. Ecol., 22:229-244. The authors studied the Amboseli elephant population in Kenya and noted that water distribution and forage quality largely dictate the natural seasonal cycles in movements, habitat selectivity and the herd dynamics (JS).
- 2390 Lz W Winchester-Gould, Dennis. 1980. Ways of the wild. First edition. Ridgeback Publishers, Craighall, Republic of So. Africa 144 pp. Illustrations by Jill Adams. A collection of natural history stories with "vivid descriptions of the complex interrelationships between animals, their habitat and man." (E/SLS).
- 2391 Lz W Winchester-Gould, Dennis. 1986. Hour of the elephant. Ridgeback Publishers, Craighall, Republic of So. Africa, 116 pp. Illustrations by Jill Adams. "An old elephant, irresistibly drawn, goes back deep into the Kalahiri." (E/SLS).
- 2392 Lp W Wright, P.G., and C.P. Luck. 1984. Do elephants need to sweat? S. Afr. J. Zool., 19:270-274. See Reference No. 2320.
- 2393 Li W WTMU. 1983. The Hong Kong and Japanese trade in unworked ivory 1979-1982. TRAFFIC Bulletin, 5:7-10.
- 2394 EgjW Xiyang, Tang. 1987. Living treasures: an odyssey through China's extraordinary nature reserves. Bantam Books, Inc., New York, 174 pp. and 22 plates. The fifth chapter recounts encounters of elephants in the Yunnan Province, especially in Xishuangbanna reserves where about 200 still live in the wild. An additional 20 elephants remain in the Nangun River Nature Reserve. The elephants in Xishuangbanna are believed to have survived because of the Dai People tradition to worship and thereby protect the elephants and their forest habitat. This book was reviewed by Andrew T. Smith. See Natural History Magazine, 2/88:80-83.
- 2395 Lm W Yalden, D.W., M.J. Largen, and D. Kock. 1986. Catalogue of the mammals of Ethiopia. No. 6. Perissodactyla, Proboscidea, Hyracoidea, Lagomorpha, Tubulidentata, Sirenia, and Cetacea. Monitore Zool. ital. (NS) Suppl., 21:31-103.

- 2396 **BmhC** Yonetani, Kako Y. 1986. Captive elephants in Japan: census and history. *Elephant*, 2(2):3-14.
- 2397 **EgmW** You, Tang Guang, Li Wei, Jia Yan Liang, Nie Chong Wen, and Huang Hua Qiang (executive editors and art designers, China Wildlife Conservation Association). Year not given (purchased in 1986, Toronto, Canada). *Wildlife of China*. China Forestry Publishing House (Printed in Hong Kong), 134 pp.
On pages 30-31 there are photographs of elephants in the wild, with the following writings: Asiatic elephant, *Elephas maximus*, "Living in the dense primitive jungles in the tropical zone, they like swimming and live in groups. They are big eaters and one may ingest about two hundred kilograms of vegetation per day. They are mainly distributed over tropical forests in the southwestern area of Yunnan Province, but currently most of them are found dwelling in groups in the district of Mengyang, Mengqi, Mengla and Nangun River. There are approximately 200 surviving in the wild of China." (JS).
- 2398 **BopC** Yu, Nai-Teng, Helen M. Thompson, Hiroshi Mizukami, and Klaus Gersonde. 1986. The cobalt-nitrosyl stretching vibration as a sensitive resonance Raman probe for distal histidine-nitrosyl interaction in monomeric hemoglobins. *Eur. J. Biochem.*, 159:129-132.
See Reference Nos. 2310, 2315, and 2338.

JUNIOR LIBRARY - LITERATURE ON ELEPHANTS: 1930 - Present

In Elephant, Volume 1 Number 4, pages 287-289, we have published a list of 23 references aimed at young readers. Similarly, in Elephant, Volume 2, Number 1, pages 226-227, we increased our references to the youth by 16. In this issue we have added 47 books; we continue with this listing primarily because we wish to encourage interest in prospective "future elephantologists." Annotations to references usually include the school grades and/or ages towards whom this reading material is aimed. The categorization system we follow is that of the American Library Association (based at 50 E. Huron St. Chicago, Illinois 60611 USA), whose breakdown is as follows:

- Lower Elementary School, including Kindergarten through 3rd grade (Ages 5-8 years).
- Upper Elementary School, including 4th grade through 6th grade (Ages 9-11 years).
- Junior High School, including 7th grade through 9th grade (Ages 12-14 years).
- Senior High School, including 10th grade through 12th grade (Ages 15-18 years).

The vast majority of the books and articles in this Junior Elephant Bibliography are for the first three categories listed above, which are generally considered as "children". Young readers may be interested to read letters from and to children printed under RECENT CORRESPONDENCE in this issue. We welcome any questions and/or comments you may have. Our mailing address is given on the inside of the backcover.

- 2399 +g B Anonymous. 1981. Elephants. Allan Publishers, Inc., 25 pp.
A Wonder Starters Book, for early readers. Pictures by Isobel Beard.
- 2400 Ug C Anonymous. December 1984. Has anyone seen Harriet? School Library Journal.
Harriet the Elephant, "star of her own board books, clothbound and paperback series, as well as a soon-to-be-released plush toy from Commonwealth, "disappeared en route to a school library conference in October 1984. Crown Publishers in New York are guardians of Harriet (FDR).
- 2401 *g U Bailey, Joseph H., and Staff of the National Geographic Society. 1983. Giants from the past. The National Geographic Society, Washington, D.C., 104 pp.
Most of the photographs by Joseph H. Bailey. Several sections are related to mastodons and mammoths; all of the sites and activities include young people. One section explains and shows the reconstruction of the Groleau-White Lake Mastodon skeleton done at Oakland Community College, Michigan, under the direction of Jeheskel Shoshani (see also Reference No. 1929 in Elephant, Vol. 2, No. 1; Page 235) (SLS).
- 2402 Bg B Barner, Bob. 1979. Elephant facts. Unicorn (Dutton), New York, 40 pp.
Young readers, illustrated by the author. Two types of elephants are compared through the use of illustrations and maps of the two continents (E/JLP).
- 2403 BgbB Black, Hallie. 1981. Animal cooperation: a look at sociobiology. William Morrow and Company, New York, 64 pp.
The author examines the "theory of animal behavior called sociobiology." In Chapter 3 "Animal behavior", African elephant herd structure is related to sociobiology. Note that no distinction is given between Africans and Asians, but only African elephant research is cited in the bibliography (FDR).
- 2404 Ug C Boring, Mel. 1980. Clowns: the fun makers. Julian Messner, New York, 128 pp.
Pages 80-81, some elephant clowns and other stunts, including tight-rope walking (JLP).
- 2405 U zU Brustkin, Daniel. 1956. Elephant and the flea. McGraw-Hill Company, New York, 32 pp.
For first graders. Illustrated by the author. Picture story of an elephant who tries to get rid of a flea (E/JLP)
- 2406 LubW Clark, James L. 1968. In the steps of the great American museum collector, Carl Ethan Akeley. M. Evans and Company, Inc., New York, 127 pp.
Chapter 3, pp. 35-51, is an account of Carl Akeley's elephant hunt to collect specimens for the American Museum of Natural History. Also his observations of elephant behavior and his miraculous survival after being attacked and injured by a bull elephant are presented (JLP).
- 2407 Eg C Cooper, Page. 1955. Amigo, circus horse. World Publishing Company, New York, 238 pp.
For ages 12-16. Illustrated by Henry Pitz. "Farewell performance of the trained elephant, old Sadie, a wonderful trouper, is a moving climax to a colorful story." (from Arbutheum, E/FDR).

- 2408 **Bg B** Delton, Judy. 1985. The elephant in Duck's garden. Albert Whitman, 32 pp.
For ages 3 to 6. Illustrated by Lynn Munsinger. A fanciful situation in which Duck, Bear and Rabbit try to remove an elephant from Duck's garden (E/FDR).
- 2409 **Et C** Dhotre, Damoo, as told to Richard Taplinger. 1961. Wild animal man. Little Brown and Company, Boston, 155 pp.
Chapter 5, pp. 55-68, reports vividly author's experience training a bull elephant to perform in a Russian circus which was traveling through India and Sri Lanka (JLP).
- 2410 **LgJW** Fechner, Amrei. 1978. I am a little elephant. Barron's Woodbury, New York, 12 unnumbered pages.
For ages 4-6 years. English translation was published in 1984 from German by Robert and Rita Kimber. Pages are made of cardboard, color illustrations with good taste convey behavior and ecology of the African elephant. A small pocket-sized version was published in Hong Kong (JGE).
- 2411 **BglB** Ford, Barbara. 1980. Why does a turtle live longer than a dog? A report on animal longevity. William Morrow and Company, New York, 64 pp.
Illustrations with photographs, index. Examines the variations in life spans of both domestic and wild animals ranging from one day to more than a century. Discusses ways of estimating age and "theories" on why life spans vary and what causes aging. Page 22 Elephas maximus in Australian zoo lived to an estimated age over 69. P. 42 and p. 46, author states that elephant longevity is attributed to its low metabolism, large size and large brain. P. 42, a picture of Ziggy "the oldest and largest male elephant known" died in the Brookfield Zoo, Illinois, at age 55 (JLP).
- 2412 **Bg C** Gianelloni, Marcelle. 1987. Close encounters of the wildest kind. Science and Children, 24(6):37-38.
What animal can pick up objects with its nose? At the MetaZoo Education Center of Louisville Zoo, Kentucky, students from pre-school through college are challenged with combinations of animals and crafts. In ZOOper Kids for 3 and 4 year olds, children explore ideas of tails, teeth and trunks at the Elephant House with a young African elephant; later they make animal masks out of paper bags (SLS).
- 2413 **+hyU** Girardet, Sylvie, Claire Merleau-Ponty, Anne Tardy, and Fernando Puig Rosado. 1987. Elephantillages. Le Musee en Herbe, Paris, 44 pp. (In French.)
A children's book based on an amusing exhibition on the history of proboscideans under the aegis of the Musee en Herbe and the National Museum of Natural History - with a preface by Yves Coppens (SLS).
- 2414 **+vgU** Halstead, Lambert G. 1978. The evolution of the mammals. Eurobook Limited, Italy, 116 pp.
Suited for secondary students. With extensive illustrations. The jacket credits Peter Lowe as publisher. The 1981 edition was published by Eurobooks (Hippocrene Books), England. In the section on elephants (pp. 64-65) the evolutionary tree and some of the associated descriptions are antiquated and misleading (JS).
- 2415 **EqtC** Harry, Robert Reese. 1961. Elephant boy of Burma. Random House, Inc., New York, 177 pp.
Illustrations by Mathew Kalmenoff. Interesting detail on Burmese jungle life and fascinating depiction of the nature and training of elephants (E/JLP).
- 2416 **Uz C** Hoban, Russell. 1978. The Twenty-Elephant Restaurant. Atheneum, New York, unpagged.
Illustrated by Emily Arnold McCully. An intellectually demanding book: the humor of the situation "will amuse youngsters who are attuned to the absurdity of the tale." (E/FDR).
- 2417 **Lg W** Hogan, Paula K. 1979. The elephant. Raintree Childrens Book, Milwaukee (Wisconsin), 32 pp.
For lower elementary (grade school) readers. Illustrations by Kinko Craft. Information only on African elephants although text does not specify this (SLS).
- 2418 **+g B** Jurmain, Suzanne. 1978. From trunk to tail: elephants legendary and real. Harcourt Brace Jovanovich, Inc., New York, 88 pp.
Format and reading level are suitable for upper elementary and junior high school. A general book on elephants, past and present, factual and fictitious. Prints and photographs are interesting. Some statements are incorrect; extensive bibliography is included (SLS).

- 2419 **Ez W** Kipling, Rudyard. 1937. Toomai of the elephants. MacMillan and Company, Limited, London, 84 pp.
Fiction. A story of a boy, 10 years old, and his relationship to a bull elephant named Kala Nag (Black Snake). The elephant led him at night to witness an elephant dance. Little Toomai "Had seen what never man had seen before - the dance of the elephants at night and alone in the heart of the Garo hills!" A blurb on a fly-leaf of this book reads: "The photographs illustrating this edition are from the London Film Production "Elephant Boy", produced by Alexander Korda, directed by Robert Flaherty and Zoltan Korda. Most of the photographs were taken in India by Mrs. F.H. Flaherty." [The actor who played the Elephant Boy is the famous Sabu Dastagir (born: 3-15-24; Died: 12-2-63)] (JS).
- 2420 **Bg B** Lane, Margaret, and David Wright. 1985. The Elephant. Walker Books Ltd., London, 27 unnumbered pp.
Illustrations by D. Wright. A zebra "Animal World" book designed to "guide children towards a proper understanding of nature." (E/SLS).
- 2421 **Bz C** Lathrop, Dorothy P. 1937. Animals of the Bible. J.B. Lippincott Company, Philadelphia, 66 pp.
Black and white illustrations by the authors and selected Biblical (from the King James Bible) text by Helen Dean Fish. Elephants appear on page 2 (in connection with the story of creation) and on page 8 (in connection with Noah's Ark) (JS).
- 2422 **Bg W** Lavine, Sigmund A., and Vincent Sauro. 1979. The wonders of elephants. Dodd Mead and Company, New York, 80 pp.
Secondary Level. Describes the physical characteristics, behavior, and natural habitats of the two species of elephants, African and Asian. Also discusses their relationship with human beings throughout the ages (E/JLP).
- 2423 **L zC** Lindop, Edmund. 1960. Jumbo, King of elephants. Little Brown and Company, Boston, 30 pp.
For ages four to eight years old. Illustrations by Jane Carlson. The story of one of the biggest elephants known, who was taken as a baby from the African jungle to the Paris Zoo, then to the London Zoo, and finally was brought to America to become the greatest attraction in P.T. Barnum's circus. See also Reference No. 2374 (E/JLP).
- 2424 ***vhU** Luther, Sallie. 1983. Frozen in time. Ranger Rick, 17(4):28-30.
Description of the excavation of the baby mammoth "Dima" (named after a nearby stream) and the information about mammoths in general and this one's death (blood poisoning) in particular. See also article in Elephant, Vol. 1, No. 3, Pages 42 (SLS).
- 2425 **BgjB** Moore, Tara. 1982. The endangered species: elephants. Garrard Publishing Company, Champaign, Illinois, 48 pp.
Intermediate elementary. The author, who has traveled to Africa, India and Asia to sketch and paint elephants, discusses the two types of present day elephants. She intersperses descriptions of her experiences with sketches (E/JLP).
- 2426 **Eb C** Mukerji, Dhan Gopal. 1922. Kari the elephant. E.P. Dutton & Company, Inc., New York, 135 pp.
First Printing... October 1922, Twentieth Printing... December 1934.
Illustrations (of photographic quality) by J.E. Allen. According to S.J. Kuntiz and H. Haycraft (1934, The Junior Book of Authors, The H.W. Wilson Company, New York, page 264) "The jungle life that he (Mukerji, D.G.) knew intimately as a boy was the basis for most of the books, which are narrated in the first person by a young boy who has thrilling experiences with the animals. Sometimes he has retold the ancient folk-legends he heard in childhood." (JS).
- 2427 **Ez W** Mukerji, Dhan Gopal. 1924. Har, the jungle lad. E.P. Dutton and Company, New York. Illustrated by Morgan Stinemetz. For ages 11-14.
- 2428 **Ez W** Mukerji, Dhan Gopal. 1929. The chief of the herd. E.P. Dutton & Company, Inc., New York, xi + 168 pp.
- 2429 **Bg B** Naden, C.J., and Joel Snyder. 1979. I can read about elephants. Troll Associates, Mahwah, New Jersey, unnumbered 44 pp.
Illustrations by J. Snyder.

- 2430 **Bg B** Overbeck, Cynthia. 1982. Elephants, a natural science book. Lerner Publishing Company, Minneapolis, 48 pp.
Secondary level. Photographs by Tokumitsu Iwago. With glossary. "Readers of this book will learn about the lives and habits of both African and Asian elephants." Adapted from The World of Wild Animals by Tokumitsu Iwago, 1972, Akane Shobo Publishers, Tokyo (SLS).
- 2431 ***hzU** Pearl, Richard M. 1969. 1001 Questions answered about earth science (Revised Edition). Dodd, Mead and Company, New York, xvi + 327 pp.
Answers to straightforward questions on preservation of past life forms, types of elephants and other proboscideans in the past, and geological and glacial history (SLS).
- 2432 **Bz B** Robinson, Deborah. 1981. No elephants allowed. Ticknor & Fields, New York, 32 pp.
Illustrated by the author. A young boy's belief in "the elephant, lions and alligators that invade his room every night" is the basis for exploring childhood fantasies and fear (E/SLS).
- 2433 **BghB** Robinson, Wm. Wilcox. 1935. Elephants. Harper and Bros., New York, For ages 9 and up. The story of elephants from 50 million years ago to the present. Elephants as man's prey, as man's servant, sacred elephants and elephants in circuses and Zoos. Illustrated (JLP).
- 2434 **Bg B** Rogers, Edmund. 1978. Elephants. Raintree Children's Books, MacDonald - Raintree, Milwaukee (Wisconsin), 57 pp.
With color illustrations.
- 2435 **Uz U** Sadler, Marilyn. 1983. Alistair's elephant. Prentice-Hall, Englewood Cliffs, New Jersey, unpagged.
Recommended for ages 4 to 8. Illustrated by Roger Bollen.
Alistair, a six year old boy with no time for nonsense, is followed home by an elephant (FDR).
- 2436 **Bz B** Dr. Seuss. 1940. Horton hatches the egg. Random House, New York, 53 pp.
- 2437 **Bz B** Smath, Jerome R. 1979. But no elephants. Parents Magazine Press, New York, 39 unnumbered pages.
Fiction, illustrated, for pre-school. Tildy Grandma bought a canary, a beaver, a turtle, and a woodpecker as pets. Later she also got an unwanted elephant and soon he fell through the floor of her home (JS).
- 2438 **Et C** Sowers, Phyllis (Ayer). 1949. Elephant boy of the teak forest. Julian Messner Inc., New York, 169 pp.
Illustrations by Margaret Ayer. A story of Siam (Thailand). Its hero is Prod who, with his father, worked the elephants getting the teak logs out of the forest. Glossary included (E/JLP).
- 2439 **EtcB** Stewart, John. 1982. Elephant school. Pantheon Books, New York, 55 pp.
Photographs by the author. The text portrays a 15 year old elephant driver in his year of training with his first elephant at the Young Elephant Training Center in northern Thailand. This publication won an award from The New York Academy of Sciences in the younger category (SLS).
- 2440 **LgbB** Stidworthy, John, and Rosalind Hewitt. 1987. A year in the life: Elephant. Macdonald & Company (Publishers), Ltd., London, 31 pp.
Illustrations by R. Hewitt. A well-structured, interesting story approach with the emphasis on behavior (SLS).
- 2441 **L zW** Stinetorf, Louise (Allender). 1956. Elephant outlaw. J.B. Lippincott Company, New York, 173 pp.
For older readers. Pictures by Harper Johnson. Two young boys follow old "Mutesa," a rogue elephant, through the jungles of Kenya. The book deals with their encounters with pygmies and wild animals (E/JLP).
- 2442 **Ug U** Thurman, Mark. 1986. Douglas the elephant. Independent Publishers Group, Port Washington, New York, 24 pp.
A series of books for young children (each is 24 pp. long): (1) The elephant's cold, (2) The lie that grew and grew, (3) The birthday party, and (4) The elephant's new bicycle. "Children identify easily with Douglas and his friends as they play and share, deal with problems and explore their worlds." Illustrations by the author add to the delight in these books (E/FDR).
- 2443 **Ey C** Torgersen, Don Arthur. 1977. Ziggy, the elephant. Encyclopedia Britannica Educational Corporation, Chicago, 52 pp.
For elementary students. Booklet which accompanies a filmstrip and record set of the same title (SLS).

- 2444 **+hyU** Visset, Dominique (designer). 1987. Eledontes et mastophants. Musee en Herbe, Paris, 8 pp.
A play-book which depicts 8 types of proboscideans; the split pages show different animals which may never have existed (SLS).
- 2445 **Bb W** Williams, Barbara. 1982. How elephants keep their cool. Ranger Rick, 16(11):22-25.
Magazine for ages 9-14. Text is written primarily from the research on African elephants with a suggestion (in photos) that the information applies to Asians also (SLS).
- 2446 ***g U** Wilson, Ron, and Doreen Edwards. 1984. Woolly mammoth. Rourke Enterprise, Inc., Vero Beach (Florida), 23 pp.
Upper elementary grades (ages 9-11 years old). Illustrations by D. Edwards.
Some anthropomorphism and errors in scientific information (JS).