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# Elephant Bibliography

Elephant Editors

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## ELEPHANT BIBLIOGRAPHY

With the publication of this issue we have on file references for the past 66 years. Because of technical problems and lack of time, we are publishing only references for 1980-1986; the rest (1920-1979) 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 (CBSS, 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 any references listed in the Bibliographies of previous issues of Elephant. A total of 430 new references has been added in this issue. All references were compiled on a computer using a special program developed by Gary 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 for such changes, see the following references: 1) Bibliographic Retrieval Services System Reference Manual and Database Search Guides, New York, page 3 in 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. Reference 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):

JKB = Judith K. Berg	JS = Jeheskel Shoshani
JGE = Joseph G. Engelhard	NES = Nancy E. Small
SSL = Sandra S. Lash	SHS = Sherry H. Stewart
DEM = Donald E. Moore	WLT = William L. Thompson
MLO'C = Marie-Louise O'Connell	LAW = Linda A. Wyllie
JLP = Jules L. Pierce	FZ = Francis Zoch
FDR = Faye D. Rosser	PZ = Patricia Zoch
BC = Bibliography Committee (taken mostly from computer references)	
E = Excerpt (followed by the initials of the excerptor, e.g., E/BC)	

A system of categorizing references to assist readers in locating material was added with the previous issue 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 lefthand margin to the right of the reference number of each item as given below.

#### Categories listed in the 1st 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 2nd and 3rd 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 4th column:

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

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

RECENT LITERATURE ON ELEPHANTS: 1980 TO PRESENT

- 1805 **LpmW** Alexander, R. McN., A.S. Jayes, G.M.O. Maloiy, and E.M. Wathuta. 1981. Allometry of the leg muscles of mammals. *J. Zool.*, London, 194(4):539-552.
- 1806 **\*vwU** Alferez, F., G. Molero, P. Brea, and J.V. Santafe. 1982. More exact data on the geology, fauna, chronostratigraphy and paleoecology of the Miocene deposits of Corcoles, Spain. *Rev. R. Acad. Cienc. Exactas. Fis. Nat. Madr.*, 76(2):249-276. (In Spanish).  
"At present, 17 orders and approximately 40 families have been identified. Rhinoceros and mastodon groups are the most numerous; the latter is the most important fossil population from the Spanish Miocene (Middle Orleanian)." (E/BC).
- 1807 **BihB** Alper, Joseph. April 1986. *Polymers. ChemMatters*, 4(2):cover and pages 4-7.  
"In the 1800's anyone who was anyone owned a pool table, complete with hand-crafted ivory billiard balls. This meant trouble for African elephants..." "In 1863, John Wesley and Isaiah Hyatt invented celluloid, the first plastic. Since then, scientists have developed countless polymers that have replaced ivory in most applications." (E/SSL).
- 1808 **EnmC** Ananthasubramaniam, C.R., K. Chandrasekharan, and P.U. Surendran. 1982. 1. Studies on the nutritional requirements of the elephant *Elephas maximus*. 2. Prediction of body weight from body measurements. *Indian Vet. J.*, 59(3):227-232.  
"For fairly accurate prediction of the body weights of the elephants, the formula devised on the basis of chest girth and neck girth measurements can be safely used..." "to determine their nutritional requirements..." (E/BC).
- 1809 **\* U** Anderson, Elaine. 1981. Analysis of faunal remains from 5LP264. *Southwestern Lore*, 47(4):28-32.
- 1810 **LcmW** Anonymous. 1982. *Cri d'alarme du Ministre des Eaux, Forets, Chasses, Peches et du Tourisme de la Republique Centrafricaine. Panda* (World Wildlife Fund - France), pages 20-22. (In French).  
About 50 years ago the Water and Forest Service estimated a population of 80,000 - 100,000 elephants in the Central African Republic. Today the population is estimated below 15,000 (maybe 10,000) (SSL).
- 1811 **LicW** Anonymous. 1982. *Horizons: Ivory in Zimbabwe. Swara*, 5(6):21.  
"Operation Windfall" returns money to rural people from an annual ivory auction of culled elephants in an effort to discourage poaching (SSL).
- 1812 **BicW** Anonymous. 1982. *News from WWF & IUCN: T.R.A.F.F.I.C. Japan. Swara*, 5(4):32.  
Japan, the world's largest purchaser of ivory, appears to be undergoing a change in public attitude (E/SSL).
- 1813 **Ec W** Anonymous. 1982. *News from WWF & IUCN: The Asian elephant. Swara*, 5(4):32.  
Dr. Robert Olivier, reporting on new methods of limiting the effect of massive agricultural development on the Asian elephant, was optimistic about its survival (SSL).

- 1814 **LwcW** Anonymous. 1982. The decline and fall of the Knysna elephant. *African Wildl.*, 36(6):199-203, 206.
- 1815 **Bc W** Anonymous. 1983. Briefly... 78th for CITES. *Oryx*, 18(April):95.  
"Sudan's ratification of CITES became effective 23 January 1983, brings the total number of contracting parties to 78." (E/SSL).
- 1816 **LcmW** Anonymous. 1983. Briefly... Elephants declining in Malawi. *Oryx*, 17(April):97.  
According to a WWF survey in 1981-1982, poaching has brought the number of elephants down. In Kusungu National Park about 1000 survive; about 900 in small numbers elsewhere (E/SSL). See Reference No. 1818.
- 1817 **LuzW** Anonymous. 1983. Briefly... Slaughter in the Kruger National Park. *Oryx*, 17(April):97.  
At least 137 elephants were killed between June 1981 and December 1982 by poachers from Mozambique; one of the victims was "Groot Haaktand" or the "Shawu bull", one of the world's largest bull elephants (E/SSL). See Reference No. 1819.
- 1818 **LcmW** Anonymous. 1983. IUCN Update: elephant population declines in Malawi. *IUCN Bulletin*, Gland, Switzerland, 14(4/5/6):34.  
"Only about 1900 exist today in the country's parks and reserves." (E/SSL). See Reference No. 1816.
- 1819 **LlzW** Anonymous. 1984. Another Kruger tusker dead. *Oryx*, 18(October):244.  
"Mafunyane" died November 1983 of natural causes at approximately 57 years old (SSL). See Reference No. 1817.
- 1820 **Bc B** Anonymous. 1984. Briefly... 85 for CITES. *Oryx*, 18(July):166.  
Algeria, Luxembourg, Republic of Trinidad and Tobago join.
- 1821 **Bc B** Anonymous. 1984. Briefly... 86 for CITES. *Oryx*, 18(October):241.  
Benin joins.
- 1822 **LwzW** Anonymous. 1984. Briefly... Africa: a famous tusker. *Oryx*, (April):108-109.  
Following the death of Shingwedzi, a legendary bull elephant, "all the exceptional bulls in northeast Kruger National Park are now fitted with radiocollars so that if they move into areas along the Mozambique border, where poaching is a danger, they can be driven to safer areas." (E/SSL). See Reference Nos. 1817 and 1819.
- 1823 **Li W** Anonymous. 1984. Briefly... Africa: ivory ban in Sudan. *Oryx*, 18(April):108.  
"Sudan government authorities banned all exports of unworked ivory from 1 January 1984." (E/SSL).
- 1824 **Li W** Anonymous. 1984. Briefly... Airline refuses illegal ivory. *Oryx*, 18(October):241.
- 1825 **Ec W** Anonymous. 1984. Briefly... Elephant rescue. *Oryx*, 18(October):245.  
The Malaysian Army rescued 15 elephants stranded by rising waters at a new dam (MLO'C).
- 1826 **EcmW** Anonymous. 1984. Briefly... Elephants in trouble. *Oryx*, 18(October):245.  
Dr. D.K. Choudhury estimates that 10,000-12,000 elephants (half of north-eastern India's population) face extermination in the next 10-20 years (SSL).

- 1827 **EkzW** Anonymous. 1984. Briefly... Indo-Malaya: elephant smuggling. *Oryx*, 18(April):109.  
"Wild Asian elephants are being illegally exported from Burma to Thailand, and possibly to Assam, for domestication. The elephant is protected in Burma...." (E/SSL).
- 1828 **Li W** Anonymous. 1984. Briefly... Ivory ban in Sudan. *Oryx*, 18(July):168.
- 1829 **Lc W** Anonymous. 1984. Briefly... Kenya: a cull not a hunt. *Oryx*, 18(October):243.  
As reported in *Oryx* 18(3):168, the Kenyan government did not open hunting in general but merely allowed government culling of impala, Grant's and Thompson's gazelles, wildebeeste and zebra which have damaged crop areas (SSL).
- 1830 **Lc W** Anonymous. 1984. Briefly... Reserve for elephants and suni. *Oryx*, 18(October):244.  
A 29,000 hectare game reserve named Tembe Elephant Park has been set up in Tongaland, South Africa. Its forest holds the last surviving wild elephants in Natal (SSL).
- 1831 **LucW** Anonymous. 1984. Briefly... Rhino and elephant poaching unabated. *Oryx*, 18(July):169.  
In Zambia stiffer penalties are being given to poachers; in 1983 167 arrests were made recovering 190 tusks (SSL).
- 1832 **Ec W** Anonymous. 1984. Briefly... Thailand involves villagers in park protection. *Oryx*, 18(October):245.  
A WWF/IUCN - supported plan to integrate elephant research and development of park management with local villagers (SHS).
- 1833 **Lb W** Anonymous. 1984. GEOSphere: elephants synchronize defecation as a defensive tactic. *GEO*, 6(4):129.  
"Reese, writing in *The Journal of Zoology*, suggests that a defecating elephant, particularly if it is young, is vulnerable to attack by lions, hyenas and crocodiles due to its spread legs and raised tail. Elephant herds move at a speed of 10 mph; any elephant that stopped to defecate would fall behind and be left unprotected." (E/JLP). See Reference No. 2116.
- 1834 **EcmW** Anonymous. 1984. Hard times for hot elephants. *BBC Wildl.*, 2(2):106.  
Burma's Nature Conservation and National Parks Project reports that illegally captured elephants are being smuggled into Thailand and possibly India. Poached ivory may also follow these routes. Less than 5,000 elephants survive in the wild in Burma; 6,000 live in captivity (SSL).
- 1835 **LiuW** Anonymous. 1984. News from WWF & IUCN: Sudan bans exports of unworked ivory. *Swara*, 7(2):23.  
Sudan will no longer permit exports of unworked ivory; wildlife forces will be armed to combat poaching (SSL).
- 1836 **LucW** Anonymous. 1984. Posthumous award for elephant rescue bid... . *IUCN Bulletin*, 15(10-12):104.  
IUCN awarded one of its Fred M. Packard International Parks Merit Awards to Niokolo Koba National Park guard Mr. Passe Manneh of Senegal who died in an effort to save elephants from a group of poachers (SSL).

- 1837 **LnjW** Anonymous. 1984. The elephants of Amboseli. Swara, 7(5):20.  
Grant awarded to William Lindsay by the East African Wildlife Society for research on the feeding behavior and ecology of the Amboseli elephants (SSL).
- 1838 **Lc B** Anonymous. 1985. Briefly... CAR bans elephant hunting. Oryx, 19(October):240.  
Prior to the ban the Central African Republic had reduced ivory exports in 1984 to about 20 percent of the level in 1982 (SSL).
- 1839 **Li W** Anonymous. 1985. Briefly... Chad bans ivory export. Oryx, 19(April):112.
- 1840 **EcmW** Anonymous. 1985. Briefly... Elephant herds increase in China. Oryx, 19(October):241.  
At least 230 elephants are living in two reserves in Yunnan Province where large-scale tree felling had caused elephants to scatter (SSL). See Reference No. 1841.
- 1841 **Em W** Anonymous. 1985. Briefly... Elephant numbers increase in China. Oryx, 19(July):170.  
The Chinese government has reported an increase in elephant numbers in Xishuang-banna Nature Reserve in Yunnan Province to 200 since the reserve was expanded in 1982 and hunting was banned (SSL). See Reference No. 1840.
- 1842 **Bc B** Anonymous. 1985. Briefly... Singapore to join CITES. Oryx, 19(April):109.
- 1843 **LicW** Anonymous. 1985. Briefly... Trail blazing for elephants. Oryx, 19(April):109.  
Proposals from the International Foundation for the Conservation of Game to stop illegal trade in ivory (FZ).
- 1844 **Bc B** Anonymous. 1985. Briefly... Two more join CITES. Oryx, 19(October):237.  
Honduras became the 88th party to CITES and Hungary the 89th (SSL).
- 1845 **LmcW** Anonymous. 1985. Elephant and buffalo in the Serengeti-Mara. Swara, 8(2):16.  
The East African Wildlife Society awarded a grant to Iain Douglas-Hamilton and Holly Dublin to census elephants and buffalos in the Serengeti-Mara ecosystem to compare to the 1975 count (SSL).
- 1846 **LicW** Anonymous. 1985. Elephants get their nationalities fixed. BBC Wildlife, 3(7):348.  
At the Buenos Aires meeting of CITES a resolution establishing a new system for controlling the raw ivory trade was adopted. African countries exporting ivory must set quotas and no imports will be permitted from any country not complying (SSL).
- 1847 **Bc B** Anonymous. 1985. Good news from nature: CITES hits the nineties. IUCN Bulletin, 16(10-12):108.  
Afghanistan becomes a party nation.
- 1848 **LicB** Anonymous. 1985. Horizons: CITES meeting. Swara, 8(5):19-20.  
At the fifth meeting (Buenos Aires), parties approved a new ivory export quota system for African ivory, which includes marking all tusks and setting quotas by 1 January 1986 (WWF News) (E/BC).



- 1849 **LumW** Anonymous. 1985. Horizons: Poaching in the Central African Republic. *Swara*, 8(5):20-21.  
In 1981 it was estimated that the elephant population in CAR was reduced from 80,000 to 15,000 in ten years. Twice as many dead elephants as live animals were found in an aerial survey of two national parks in June 1985 (WWF, IUCN, UNDP and FAO). The report, written by I. Douglas-Hamilton, J.M. Froment and G. DOUNGUBE, indicated that poaching had increased following the reopening of the ivory trade in December 1981 and was carried out mainly by horsemen from Sudan and Chad with spears and automatic weapons (E/SSL).
- 1850 **\*vwU** Anonymous. 1985. Nature: Irish Woolly. *BBC Wildlife*, 3(10):459.  
Remains of a woolly mammoth were discovered in Northern Ireland by a teacher. Plant and insect debris were recovered and are under study at Ulster Museum where there is much interest since few remains from the Quaternary period have been uncovered (SSL).
- 1851 **BicB** Anonymous. 1985. News and views. Yet more moves to control Japan's ivory imports. *Oryx*, 19(July):130.  
The Tokyo Ivory Arts and Crafts Association abandoned an agreement made early in 1985 to control ivory imports. Nonetheless, an ivory importer's group has been established under government guidance, which represents 98% of the total Japanese ivory import trade. This group has been directed to prohibit ivory imports from Burundi and Singapore and to tighten controls on imports and re-exports from and to Zaire, Sudan, Uganda and Chad (SSL).
- 1852 **LuzW** Anonymous. 1985. Society highlights: Snared baby elephant. *Swara*, 8(1):18.  
David Keith Jones raised money from guests at Samburu River Lodge in Samburu/Buffalo Springs National Reserve in Kenya for EAWLS to remove a wire snare from a baby elephant's head and ears (SSL). See also Reference No. 2016.
- 1853 **BicW** Anonymous. 1985. Tightening controls on the ivory trade in Japan. *Oryx*, 19(January):3-4.  
Details of an agreement between members of the Tokyo Ivory Arts and Crafts Association and IUCN representative Esmond Bradley Martin. See Reference No. 2062.
- 1854 **EcmB** Anonymous. 1986. Briefly... Asian elephants need help. *Oryx*, 20(April):123.  
Asian Elephant Survival Foundation in Nevada, USA, has set up an elephant sanctuary in Nepal for orphaned calves and old working elephants. Elephant numbers are fewer than 50, due to poaching and deforestation (E/SSL).
- 1855 **LicW** Anonymous. 1986. Briefly... CAR clamps down on ivory. *Oryx*, 20(April):122.  
The President of the Central African Republic announced a ban on all private collection, import, export or transport of ivory from 1 January 1986 (PZ).



- 1856 **LmuW** Anonymous. 1986. Briefly... CAR crackdown on poaching. *Oryx*, 20(January):48.  
An aerial survey in August 1985 revealed nearly twice as many dead elephants as living ones in Central African Republic (PZ).
- 1857 **Bc B** Anonymous. 1986. Briefly... CITES Parties reach 90. *Oryx*, 20(April):118.
- 1858 **LdcW** Anonymous. 1986. Briefly... Death of a desert elephant. *Oryx*, 20(January):49.  
An elephant calf died in western Damaraland, Republic of South Africa, when its herd was being driven towards an American television crew by a helicopter. The calf was shot after it fell and broke its leg. The local population had shown an increase for the first time in 15 years (SSL). See also Reference No. 2092.
- 1859 **LhiU** Anonymous. 1986. Briefly... Elephant tusk for the Pope. *Oryx*, 20(January):48.  
Pope John Paul was given an elephant tusk with his name carved on it by Cameroon (JLP).
- 1860 **EwcW** Anonymous. 1986. Briefly... Indonesia to export elephants. *Oryx*, 20(January):50.  
An Indonesian newspaper has reported that the government has decided to reduce the wild elephant population by allowing exportation (LAW).
- 1861 **\*v U** Apostol, Leonid. 1982. Quelques pieces squelettiques de Mammuthus (Archidiskodon) trogontherii Pohlig de'couvertes aga Buciumeni (Department de Caarasi, Roumainie). *Trav. Mus. Hist. Natur. 'Grigore Antipa'*, 24:267-271 + 2 pls.
- 1862 **ap** Armstrong, E. 1982. A look at relative brain size in mammals. *Neurosci. Lett.*, 34(2):101-104.  
Includes elephants and 15 other groups of mammals. "With brain weight scales to body weight, the differences among brain weights are less than those among body weight." "Interspecific scaling of mammalian brain sizes is isometric with the organisms' abilities to support the energy cost of the brain." (E/BC).
- 1863 **\*v U** Arslanov, Kh.A., V.U. Lyadov, T.A. Tertychnaya, and B.A. Filonov. 1982. On the absolute age of the Khatanga Mammoth. Pp. 17-18, in The mammoth fauna of the Asian part of the USSR. Proceedings of the Zoological Institute (N.K. Vereshchagin and L.E. Kusmina, eds.). Vol. III:1-96 and 18 plates.
- 1864 **\*vaU** Badam, G.L., R.K. Ganjoo, and A. Salahuddin. 1983. Additional faunal material from the Pleistocene formation of the river Ghod, a tributary of the Bhima, Maharashtra, India. *Curr. Sci. (Bangalore)*, 52(6):251-252.  
Includes Elephas maximus, E. hysudricus, and other animals (E/BC).
- 1865 **Bs B** Bain, O., M. Baker, and A.G. Chabaud. 1982. New data on the evolutionary line of Dipetlonema filarioidea Nematoda. *Ann. Parasitol. Hum. Comp.*, 57(6):593-620.  
Descriptions of previously described and new species of internal parasites in elephants (E/BC).

- 1866 **EhtB** Baker, C.M.A., and C. Manwell. 1983. Man and elephant: the dare theory of domestication and origin of breeds. *Z. Tierz. Zuechtungsbiol.*, 100(1):55-75.  
Primitive man (dating back as far as approximately 300 B.C.) dared to approach and handle a captive, dangerous animal. "There was no evidence in the available literature that elephant catching had influenced the genetic makeup of wild stocks." (E/FZ).
- 1867 **Eq C** Barkman, Paul. 1983. Beginning of the Fresno Zoo elephant exhibit. Pp. 39-42, in *Proceedings of the Fourth Annual Elephant Workshop held at Kansas City, Missouri, October 14-16, 1983*, 121 pp.
- 1868 **LleW** Barnes, R.F.W. 1982. A note on elephant mortality in Ruaha National Park, Tanzania. *Afr. J. Ecol.*, 20(2):137-140.
- 1869 **LbeW** Barnes, R.F.W. 1982. Elephant feeding behavior in Ruaha National Park, Tanzania. *Afr. J. Ecol.*, 20(2):123-136.  
"In the wet season elephants ate mainly grass while in the dry season they ate mainly wood browse... Browsing bulls tended to move from plant to plant less frequently than did cows." (E/BC).
- 1870 **LrbW** Barnes, R.F.W. 1982. Mate searching behavior of elephant, *Loxodonta africana*, bulls in a semi-arid environment. *Animal Behavior*, 30(4):1217-1223.
- 1871 **LecW** Barnes, R.F.W. 1983. Effects of elephant browsing on woodlands in a Tanzanian national park: measurements, models and management. *J. Appl. Ecol.*, 20(2):521-540.  
Tree densities vary with the number of elephant; culling is discussed (E/BC).
- 1872 **LebW** Barnes, R.F.W. 1983. Elephant behavior in a semi-arid environment. *Afr. J. Ecol.*, 21(3):185-196.
- 1873 **LgcW** Barnes, R.F.W. 1983. The elephant *Loxodonta africana* problem in Ruaha National Park, Tanzania. *Biol. Conserv.*, 26(2):127-148.  
Elephant over-population resulted in the arguments for and against six management options: "providing artificial water supplies, improved fire control, reducing human pressures, culling, noninterference and poaching." (E/BC).
- 1874 **BgjB** Barnes, R.F.W. 1984. Elephants. Pp. 452-461, in *The Encyclopedia of Mammals:2* (David W. Macdonald, ed.). George Allen & Unwin, London, 448-895 + xxxii pp.  
Well written and illustrated (JS).
- 1875 **LmwW** Barnes, R.F.W., and Iain Douglas-Hamilton. 1982. The numbers and distribution patterns of large mammals in the Ruaha-Rungwa area of southern Tanzania. *J. Appl. Ecol.*, 19(2):411-426.  
"The 31,500 km<sup>2</sup> census zone carried one of the largest elephant populations in Africa, an estimated 43,685 + 9254 elephants..." (E/BC).
- 1876 **EopC** Bartnicki, David E., Hiroshi Mizukami, and Alejo E. Romero-Herrera. 1983. Interaction of ligands with the distal glutamine in elephant myoglobin. *J. Biol. Chemistry*, 258(3):1599-1602.  
The most significant finding with regard to elephant myoglobin is that it reacts eight times stronger with carbon monoxide (CO) than other myoglobins. This means that elephants housed close to

- expressways, where emission of CO from motor vehicles is greatest, would probably be affected by the toxic gas more than other animals would (JS).
- 1877 **Bq C** Barzdo, Jon (ed.). 1983. Management of pachyderms. Proceedings of Symposium 7 of the Assoc. of British Wild Animal Keepers, Bristol, 48 pp.
- 1878 **EmcW** Basappanavar, C.H. 1985. Bandipur National Park - a paradise regained in tiger country. *Tigerpaper*, 12(1):28-32.  
"Operation Census" of elephants conducted in three trials during 1983 yielded an average of 1004 elephants as compared with 1187 in 1976 (SSL).
- 1879 **\*v U** Beden, Michel. 1981. Donnees recentes sur l'evolution des proboscidiens pendant le Plio-Pleistocene en Afrique orientale. Pp. 72-76, in *Actes du 8e Congres Panafricain de Prehistoire et des Etudes du Quaternaire-Nairobi*, (R.E. Leakey and B.A. Ogot, eds.), Septembre 1977, Nairobi.
- 1880 **Lc W** Bell, R.H.V. 1981. An outline of a management plan for Kasungu National Park, Malawi. Pp. 69-89, in *Problems in management of locally abundant wild mammals* (P.A. Jewell, S. Holt & D. Hart, eds.). Academic Press, New York.
- 1881 **LucW** Bell, R.H.V. 1984. Untitled letter to the editor. *Swara*, 7(1):40.  
Concerning elephant poaching in Malawi, the elephant population has been estimated at 700 to 1,000 which is a slight decline. In Kasungu National Park poaching in the North and West caused compressing of elephants into the east and central areas. Since January 1982 elephant poaching has declined. Elephant mortality in 1983 due to crop-protection shooting fell to half (8) of that of 1982 (E/SSL).
- 1882 **EpbC** Bennett, Cynthia L. 1985. Concept formation and visual acuity in the Asian elephant. Page 13, in *Proceedings of the Fifth Annual Elephant Workshop*, New Orleans, Louisiana, November 29 - December 1, 1984, 113 pp.
- 1883 **Lb W** Berg, Judith K. 1983. Vocalizations and associated behaviors of the African elephant (*Loxodonta africana*) in captivity. *Z. Tierpsychol.*, 63(1):63-79.  
This study was conducted at the San Diego Wild Animal Park, California, U.S.A. The eight female African elephants (Peaches, Sabu, Mandavu, Sharpie, Hatari, Wankie, Deteema and Bisi) and one male African elephant (Chico) emitted 10 distinct vocalizations which are associated with 11 behavior categories. Vocalizations were of two types: (1) Low sounds (18-28 hz) - Growl, Rolling growl, Snort, Roar, and (2) High sounds (357-570 hz) - Trump, Trumpet, Pulsated trumpet, Trumpet phrase, Bark, Gruff cry, Cry (JS).
- 1884 **EcmW** Blower, John. 1985. Conservation priorities in Burma. *Oryx*, 19(2):79-85.  
Issuance of hunting licenses in Burma has been suspended since 1958. An average of about 120 elephants is taken annually by the State Timber Corporation for work. Other animals are smuggled into Thailand and sold. Elephants are present in Alaungdaw Kathapa National Park, Lampi National Park, Pakchan Nature

- Reserve and especially Tamanthi Nature Reserve (SSL).
- 1885 **\*vaU** Boeuf, O., and C. Guth. 1982. Discovery of remains of Mammuth borsoni and Tapirus arvernensis near Ruffec Charente, France. C.R. Seances Acad. Sci. Ser. III. Sci. Vie., 295(2):57-60. (In French, English summary) (BC).
- 1886 **LcmW** Borner, Markus. 1985. The increasing isolation of Tarangire National Park. Oryx, 19(April):91-96.  
The number of elephants during the wet season is estimated at 2890, with 339 dead in 1980 (SSL).
- 1887 **Lc W** Bothma, J. du P. 1982. Die woestynlewende olifante van Kaokoland en Damaraland. Quagga, (1):4-6.
- 1888 **Lc W** Botkin, Daniel B., Jerry M. Mellilo, and Lillian S.-Y. Wu. 1981. How ecosystem processes are linked to large mammal population dynamics. Pp. 373-387, in Dynamics of large mammal populations (Charles W. Fowler and Tim D. Smith, eds.). John Wiley & Sons, New York, xvii + 477 pp.
- 1889 **\*w U** Bowser, Hal. 1983. When elephants roamed the range. Science Digest, 91(6):60-67. Illustrations by Mark Hallett.
- 1890 **LopC** Braunitzer, Gerhard, Anton Stangl, Barbara Schrank, Claus Krombach, and Henning Weisner. 1984. The primary structure of the haemoglobin of the African elephant (Loxodonta africana, Proboscidea): Asparagine in position 2 of the beta-chain. Hoppe-Seyler's Z. Physiol. Chem., 365:743-749.  
African elephant, Asian elephant, and llama have only 5 binding sites for polyphosphate. This chemical property enables these species to function relatively well in high altitudes where the oxygen density is low. The authors concluded that their "... biochemical and physiological data imply that Hannibal's enterprise was facilitated by the distinctive respiratory function of elephant hemoglobin." There were four amino acid substitution differences between the sequences of the two elephant species; these substitutions were neutral and therefore did not affect the physiological functions (JS). See also Reference No. 1891.
- 1891 **EopC** Braunitzer, Gerhard, Wolfgang Jelkmann, Anton Stangl, Barbara Schrank, and Claus Krombach. 1982. Hemoglobins XLVIII. The primary structure of hemoglobin of the Indian elephant (Elephas maximus, Proboscidea): beta2 = Asn. Hoppe-Seyler's Z. Physiol. Chem., 363:683-691. (In German, English Summary). See Reference No. 1890.
- 1892 **Lz W** Bright, Michael. 1984. Meet Mokele-mbembe. BBC Wildlife, 2(12):596-601.  
In 1985 a second expedition of zoologists will explore a swamp region of the People's Republic of the Congo for a giant semi-aquatic reptile. In the early 1900s a big game hunter for Carl Hagenbeck (Hamburg Zoo) saw the 'river elephant,' which had long red hair, in eastern Liberia while searching for pygmy hippopotamuses (SSL).

- 1893 \*v U Bulot, C. 1982. Chene-de-Navere, Navere, France, new deposit of mammals of the Miocene of the Gers River. Bull. Soc. Hist. Nat. Toulouse, 117(1-4):133-145. (In French) (BC).
- 1894 Ua U Buys, D., and H.J. Keogh. 1984. Notes on the microstructure of hair on the Orycteropodidae, Elephantidae, Equidae, Suidae and Giraffidae. S. Afr. J. Wildl. Res., 14(4):111-119.
- 1895 BtqC Campbell, Allen. 1985. The care and handling of elephants at the Greater Baton Rouge Zoo. Pp. 9-11, in Proceedings of the Fifth Annual Elephant Workshop, New Orleans, Louisiana, November 29 - December 1, 1984, 113 pp.
- 1896 LrqC Campbell, Sheldon. 1982. A matter of survival: what is the gestation period for a pregnant elephant? Zoonoos, 60(8):10-11. Birth of 5th African elephant in U.S.A. to mother "Hatari" at San Diego Wild Animal Park after 21 1/2 month gestation (PZ).
- 1897 Ey C Canaday, John. 1984. Vienna's Albertina sends treasures on American tour. Smithsonian, 15(8):62-69. Among the 75 works by old masters is a small drawing by Rembrandt (137) entitled "An Elephant" (FDR).
- 1898 LbcW Canby, Thomas Y. 1984. El Nino's ill wind. Nat. Geogr. Magazine, 165(2):144-183. (See also: cover page and page 140). El Nino (a climatic event, named for "a local current called El Nino, for the Christ child, affecting the coasts of Peru and Ecuador at Christmastime.") had a global effect causing floods, fires, and starvations resulting in loss of human and animal lives. In Southern Africa, Botswana's Chobe National Park elephants "made docile by thirst" are watered by park staff. (One such elephant, "Baby Huey", is pictured on page 180.) Park personnel also dig waterholes for the animals, including elephants. The situation in Kruger National Park was summarized by Chief Warden Dr. U. de V. Pienaar: "We accept drought as a natural culling mechanism....It helps keep herds at levels the habitat can support, by weeding out the sick and the old - survival of the fittest." (JS).
- 1899 \*g U Cardona, Dwardu. 1982. Forum: Dwardu Cardona Comments. Kronos 7(4):83-90. See Reference Nos. 1932 and 1933.
- 1900 \*v U Caretto, Pier G., and Giacomo Giacobini. 1983. Nuovi resti di Elephas primigenius dalle sabbie dell'Adda. Atti Soc. Italiana Sci. Nat. Mus. Civ. Stor. Nat. Milano, 124(1-2):105-116. (English summary).
- 1901 LuiW Cater, Nick. 1985. CAR hunting ban. BBC Wildlife, 3(3):148. The Central African Republic has banned elephant hunting after two years of increased controls on ivory smuggling. The CAR has been a major exporter of ivory and tusks from Sudan and Zaire as well as its own (SSL).
- 1902 LicW Cater, Nick. 1985. Ivory X-rays. BBC Wildlife, 3(7):348. Wildlife experts in Malawi are developing a technique using X-ray bombardment to identify areas from which ivory originates (SSL).
- 1903 ceW Caughley, G. 1981. Overpopulation. Pp. 7-21, in Problems in management of locally abundant wild mammals (P. A. Jewell, S. Holt and D. Hart, eds.). Academic Press, N.Y.

- 1904 **Eos** Chandrasekharan, K., J.V. Cheeran, K.N.M. Nair, K.N. Ramanujam, and K. Radhakrishnan. 1982. Comparative efficacy of 6 anti-helminthics against strongylosis in elephants. *Kerala J. Vet. Sci.*, 13(1):15-20 (BC).
- 1905 **Lg W** Cheffings, Joe. 1984. A trek back to the Tiva. *Swara*, 7(1):10-12.  
In the northern area of Tsavo East (Kenya) large elephant herds drink at Aruba dam (JGE).
- 1906 **LpoW** Cheney, C., V. de Vos, and P.G. Wright. 1982. Development of field therapy against over dosage with succinyl choline. Annual Congress of the Physiological Society of Southern Africa, Johannesburg, South Africa, Oct. 14-16, 1981. *S. Afr. J. Sci.*, 78(2):90 (BC).
- 1907 **Bq C** Chipperfield, Dick. 1983. Elephants at Chipperfield's Circus. Pp. 34, in *Management of pachyderms* (Jon Barzdo, ed.). Proceedings of Symposium 7 of the Assoc. of British Wild Animal Keepers, Bristol, 48 pp.
- 1908 **Lq C** Clark, Gary. 1983. Moving African elephants to the veldt at the Kansas City Zoo. Pp. 76-78, in *Proceedings of the Fourth Annual Elephant Workshop* held at Kansas City, Missouri, October 14-16, 1983, 121 pp.
- 1909 **EgcW** Clarke, Arthur C. 1983. Sri Lanka's wildlife heritage. *Nat'l Geogr.*, 164(2):254-273.
- 1910 **LnpW** Clemens, E.T., and G.M.O. Maloiy. 1983. Nutrient digestibility and gastro-intestinal electrolyte flux in the elephant and rhinoceros. *Comp. Biochem. Physiol. A (Comp. Physiol.)*, 75(4):653-658.  
"Foregut digestion and fermentation were most evident in rhinoceros, while elephants possessed greater cecal-colonic digestion." (E/BC).
- 1911 **LneW** Coe, Malcolm. 1983. The acacia tree: a symbol of Africa. *African Wildl.*, 37(2):75-77.  
Overview of the interdependence between browsing mammals and acacias (including elephants) (LAW).
- 1912 **LghB** Cole, Desmond T. 1983. Letters: On Jumbo. *Afr. Wildl.*, 37(1):54.  
Comments on the derivation of the name "Jumbo" in an article on "Jumbo" the elephant and in two letters on the subject (SSL).  
See Reference Nos. 1948, 1956, 1967, and 2106.
- 1913 **LewW** Conybeare, A., and G. Haynes. 1984. Observations on elephant mortality and bones in water holes. *Quaternary Research*, 22:189-200.
- 1914 **\*v U** Coppens, Yves, and Michel Beden. 1982. *Mammuthus meridionalis depereti* n. subsp. (Mammalia, Elephantidae) nouveau Mammouth du Pleistocene inferieur d'Europe occidentale. *Compt. Rend. Acad. Sci. Paris.*, 294(4):185-188. (In French, English summary).
- 1915 **\*v U** Corner, R.G., and R.F. Diffendal, Jr. 1983. An Irvingtonian fauna from the oldest Quaternary alluvium in eastern Pumpkin Creek Valley, Morrill and Banner counties, Nebraska, U.S.A. *Contrib. Geol. Univ. Wyo.*, 22(1):39-44.  
Includes *Mammuthus meridionalis* (Nesti) (E/BC).



- 1916 **\*vhU** Correal, Urrego G. 1982. Remains of mega fauna associated with artifacts in savanna of Bogota, Columbia. *Caldasia*, 13(64):487-548.  
Includes Hapломastodon sp., Cuvieronius byodon and other mammals (E/NES).
- 1917 **LrnW** Craig, G.C. 1984. Foetal mass and date of conception in African elephants: a revised formula. *S. Afr. J. Sci.*, 80:512-516.  
"Use of the revised formula tends to confirm the existence of a breeding season restricted to the wet months of the year in the South-Central African elephants ..." (E/SSL).
- 1918 **Lj W** Croze, Harvey, Allison K.K. Hillman, and Ernst M. Lang. 1981. Elephants and their habitats: how do they tolerate each other? Pp. 297-316, in *Dynamics of large mammal populations* (Charles W. Fowler and Tim D. Smith, eds.). John Wiley & Sons, New York, xviii + 477 pp.
- 1919 **\*v U** Cushing, John, Marla Daily, Elmer Noble, V. Louise Roth, and Adrian Wenner. 1984. Fossil mammoths from Santa Cruz Island, California. *Quaternary Research*, 21:376-384.
- 1920 **\*yvU** Czerkas, Sylvia M., and Donald F. Glut. 1982. Dinosaurs, mammoths, and cavemen: the art of Charles R. Knight. Clark, Irwin & Company Limited, Toronto, 120 pp.
- 1921 **Ec W** Daniel, J.C. 1982. Asian elephants: Excerpts from the Minutes of the 54th Meeting of the International Union for Conservation of Nature and Natural Resources/Survival Service Commission held at University of Florida, Gainesville, Florida, October 1-4, 1980. *Elephant*, 2(1):129-130.
- 1922 **Egfw** Dash, Ashok K. 1983. Elephant meat consumption in Orissa, India. *Tigerpaper*, 10(3):14.  
Humans in the Chandka Reserve forest "like to eat elephant meat because of its purported aphrodisiacal and medicinal properties." (JS).
- 1923 **EgcW** de Alwis, Lyn. 1983. Sri Lanka's wildlife: a nation rises to the challenge. *Nat'l Geogr.*, 164(2):274-278.  
Elephants have been relocated in order to sustain ecosystems for Sri Lanka's heritage (SSL).
- 1924 **BovB** de Jong, Wilfried W., and Morris Goodman. 1982. Mammalian phylogeny studied by sequence analysis of the eye lens protein alpha-crystallin. *Z. Saeugetierkd.*, 47(5):257-276.  
"The alpha-crystallin A sequences indicate that the paenungulate orders Proboscidea, Hyracoidea and Sirenia are a monophyletic group to which the Tubulidentata (aardvarks) also belong." (E/BC).
- 1925 **\*v U** Dehm, R. 1982. Early Pleistocene elephant findings at the South Bavarian Alpine Ridge, West Germany. *Mitt. Bayer. Staatssamml. Palaeontol. Hist. Geol.*, 10(22):113-116. (In German).  
Includes "Mammonteus primigenius and Palaeoloxodon antiquus." (E/BC).
- 1926 **\*avU** Dixon, E.J. 1983. Pleistocene proboscidean fossils from the Alaskan U.S.A. continental shelf. *Quaternary Research*, 20(1):113-119.  
Includes Mammuthus sp. tusk molar ecology (E/BC).



- 1927 **Ba B** Domning, Daryl P. 1983. Marching teeth of the manatee. *Natur. Hist.*, 92(5):8,10-11.  
In contrast to a commonly held belief, tooth replacement in manatees is different from that in elephants; manatee teeth are continuously replaced, and elephants are limited to 6 sets (JS).
- 1928 **+vaB** Domning, Daryl P., Clayton E. Ray, and Malcolm C. MacKenna. 1986. Two new Oligocene desmostylians and a discussion of tethytherian systematics. *Smithsonian Contribution to Paleobiology*, Number 59:iii + 56 pp.  
Proboscidea and Desmostylia are closer to each other than either is to Sirenia (JS). See, however, Reference Nos. 2147 and 2170.
- 1929 **\*g U** Dorr, Vera, Norman Goebel, Jessica Haslock, Kris Lehto, Jeheskel Shoshani, Peter Sujdak, Mary Ann Vaerten, Francis Zoch, and Patricia Zoch. June 1982. A guide to the Groleau-White Lake mastodon (Michigan's second mounted mastodon), *Mammut americanum*. Oakland Community College, Highland Lakes Campus, Union Lake, Michigan, 20 pp.
- 1930 **LiuW** Douglas-Hamilton, Iain. 1984. Viewpoint: Another look at the ivory trade. *Wildlife News*, 19(1):15-17.  
A response to Ian Parker and Mohammed Amin's book, *Ivory Crisis* (BC).
- 1931 **LjcW** Dublin, Holly. 1984. The Serengeti-Mara ecosystem. *Swara*, 7(4):8-13.  
"Contrary to popular belief, the decline in woodland during the 1960s cannot be unequivocally attributed to tree destruction by elephants; fires also played a part." (E/SSL).
- 1932 **\*g U** Ellenberger, C. Leroy. 1980. Problem, riddle, mystery: A mammoth update. *Kronos*, 5(4):94-97.  
A response to Cardona's paper on the validity of several hypotheses on the extinction of mammoths (NES). See Reference No. 1899.
- 1933 **\*g U** Ellenberger, C. Leroy. 1982. FORUM: C. Leroy Ellenberger Replies. *Kronos*, 7(4):66-83. See Reference Nos. 1899 and 1932.
- 1934 **+gjb** Eltringham, S. Keith. 1982. *Elephants*. Blandford Press, Poole, Dorset (England), 262 pp.  
A comprehensive account of elephants' natural history. Light reading of up-to-date data on all aspects of elephant biology, interlaced with the author's field work and personal experiences. Humorous at times. I found the section "A possible explanation of tree felling" (Chapter 9) very interesting. The chapter on the ancestry of elephants may be a bit "heavier" reading than the rest of the book; this is also a topic which is not the author's forte. On the whole, this book is an invaluable addition to the field of elephantologists (JS).
- 1935 **BggB** Eltringham, S. Keith. 1983. The relevance of studies in the wild to pachyderm management in zoos. Pp. 41-48, in *Management of pachyderms* (Jon Barzdo, ed.). Proceedings of Symposium 7 of the Assoc. of British Wild Animal Keepers, Bristol, 48 pp.

- 1936 **Bq C** Eltringham, S. Keith. 1984. Elephants in zoos. *Biologist*, 31(2):108-111.
- 1937 **Lc W** Fairall, Neil. 1982. The Knysna elephants - a nonissue? *Afr. Wildl.*, 36(6):197. See Reference Nos. 1961, 1962, 1964, 1968, 2029, 2089, and 2154.
- 1938 **EcmW** Faizuddin, Md. 1985. Wildlife sanctuaries of Bangladesh and some recommendations. *Tigerpaper*, 12(1):8-11.  
"In this paper, areas earmarked for wildlife sanctuaries have been mentioned and some measures for the protection and propagation of wildlife in Bangladesh have also been recommended." Elephants are listed under Threatened Animals and Birds in Bangladesh (SSL). See Reference No. 1952.
- 1939 **LckW** Feely, J.M. 1982. Letters: Kruger's tuskers. *Afr. Wildl.*, 36(3):120.  
Further comment on M.T. Mentis' article in Vol. 36, No. 1 (*Afr. Wildl.*) on the tuskers of East Africa (BC). See Reference Nos. 1975, 2071, 2080, and 2102.
- 1940 **\*huU** Fisher, Daniel C. 1984. Mastodon butchery by North American Paleo-Indians. *Nature*, 308(5956):271-272.  
A taphonomic analysis of several late Pleistocene mastodon skeletons excavated in southern Michigan provides compelling evidence of mastodon butchery. The additional determinations of the season of death of butchered mastodons relate to a view of Paleo-Indians as hunters who might have contributed to Pleistocene extinctions (JS).
- 1941 **\*huU** Fisher, Daniel C. 1984. Taphonomic analysis of late Pleistocene mastodon occurrences: evidence of butchery by North American Paleo-Indians. *Paleobiology*, 10(3):338-357.
- 1942 **\*huU** Fisher, Daniel C., and Paul L. Koch. 1983. Seasonal mortality of late Pleistocene mastodons: evidence for the impact of human hunting. Abstracts of the 96th Annual Meeting of the Geological Society of America, Indianapolis, Vol. 15, No. 6, page 573.  
"All butchered animals that have been analyzed died in the late fall, and all non-butchered animals died toward the end of winter or in earliest spring." (E/SSL).
- 1943 **LghC** Foreman, John, Duncan Smith, and Peter Stockham. 1982. In memoriam of Jumbo the great friend of all British children, who came to an untimely end through frightful injuries he met with at the Railway Depot at St. Thomas, Ontario, September 15th, 1885. *The Broadsheet King*, London, 10 pp.  
A small book published for the Community Regents Park Zoo Exhibition during 1982 at the Institute of Contemporary Arts, The Mall, London, SW1, England. Limited to less than 75 copies. See also Reference No. 107 (*Elephant*, 1(2):49) and Reference No. 1434 (*Elephant*, 2(1):203) (JS).
- 1944 **LgcW** Fowler, Charles W. 1981. Comparative population dynamics in large mammals. Pp. 437-455, in *Dynamics of large mammal populations* (Charles W. Fowler and Tim D. Smith, eds.). John Wiley & Sons, New York, xviii + 477 pp.

- 1945 **LgcW** Fowler, Charles W., and Tim D. Smith (eds.). 1981. Dynamics of large mammal populations. John Wiley & Sons, New York, xviii + 477 pp.  
"This book is dedicated to Dr. Richard M. Laws in recognition of his outstanding work on the biology (and especially the population biology) of large mammals. Dr. Laws' productive and pioneering career has included work on a wide range of largest of the large mammals [elephant], in both marine and terrestrial environments. His interests and efforts have varied and included all elements of the spectrum from basic biological work to comprehensive ecosystem studies." Chapters 2, 3, 15, 19, and 23 include research on elephants. See References Nos. 1888, 1918, 1944, 1979, and 2039. The following Reference Nos. in previous issues of Elephant pertain to Laws' works: 36, 285-288, 534, 676-684, 833, and 1345.
- 1946 **Bm C** Fraser, Sue O. 1983. Status of Asian and African elephants in North American zoos - 1983. Pp. 66-75 in Proceedings of the Fourth Annual Elephant Workshop held at Kansas City, Missouri, October 14-16, 1983, 121 pp.
- 1947 **Eb B** Gadgil, M., and P.V. Nair. 1984. Observations on the social behaviour of free ranging groups of tame Asiatic elephants (Elephas maximus Linn). Proc. Indian Acad. Sci. (Anim. Sci.), 93(3):225-233.
- 1948 **LfgB** Galpin, E.A. 1982. Letters: Why an elephant is called "Jumbo." Afr. Wildl., 36(6):231. See Reference Nos. 1912, 1956, and 1967.
- 1949 **Ev U** Gaur, R. 1983. On the taxonomic status of Elaphus (sic) maximus L. from the Upper Sivaliks. Sci. Cult., 49(8): 252-253.
- 1950 **ErgC** Gehrig, Hugo, and Hans-Dieter Schroder. 1982. Teilkastration eines Elefantentullen (Elaphas maximus) (sic). Zool. Garten, 52(5/6):365-368.
- 1951 **zbc** Ginsburg, H.J. and S.M. Miller. 1982. Sex differences in risk taking behavior in children. Child. Dev., 53(2):426-428. Children's behavior at the San Antonio Zoo, Texas, was observed. "More boys than girls rode the elephants,..." (E/BC).
- 1952 **Em W** Gittins, S. P., and A. W. Akonda. 1982. What survives in Bangladesh? Tigerpaper, 9(4):5-11.  
A survey in 1980 indicates that 282-348 elephants were reported from 8 areas; in 7 of the 8 areas they were rarely seen (SSL). See Reference No. 1938.
- 1953 **\*hwU** Gladkih, Mikhail I., Ninelj L. Kornietz and Olga Soffer. 1984. Mammoth-bone dwellings on the Russian plain. Scientific American, 251(5):164-170, 175, and 194.  
15,000 years ago hunting-and-gathering bands built complex, permanent structures on the steppe between the Dneiper River and its tributaries on the central Russian plain. Bones used were ribs, long bones, skulls, scapulae, tusks, mandibles, vertebrae, and pelves; skins were probably stretched over wooden frames for roofs. Note: on page 168, the bones labelled as scapulae appear to be pelves (SSL).

- 1954 **Et B** Gogoi, P.C. 1983. Domestication of Asian elephants. *Tigerpaper*, 10(4):21-26.
- 1955 **BovB** Goodman, Morris, Christine Olson, Judith E. Beeber and John Czelusniak. 1982. New perspectives in the molecular biological analysis of mammalian phylogeny. Pp. 19-35, in *Proceedings of the Third International Theriological Congress, Helsinki, 15-20 August 1982*. I Acta Zool. Fennica, 169:19-35.
- 1956 **LfgB** Gordon-Forbes, I.P. 1982. Letters: Jumbo the chief. *Afr. Wildl.*, 36(6):231. See Reference Nos. 1912, 1948, and 1967.
- 1957 **\*e U** Gorlova, R.N. 1982. Large remains of plants from the stomach of the Shandrin mammoth. *Trudy Zool. Inst. Leningrad*, 111:34-35. (In Russian).
- 1958 **\*vaU** Graham, Russell. 1986. Appendix 2: Part 1 - Taxonomy of North American Mammoths. Part 2 - Descriptions of the dentitions and stylohyoids of *Mammuthus columbi* from the Colby site. Pp. 165-229, in *The Colby Mammoth Site - taphonomy and archaeology of a Clovis Kill in northern Wyoming* (G.C. Frison and L. C. Todd, eds.). University of New Mexico Press, Albuquerque, 238 pp.
- 1959 **\*heU** Graham, Russell W., J. Alan Holman, and Paul W. Parmalee. 1984. Taphonomy and paleoecology of the Christensen Bog Mastodon Bone Bed, Hancock County, Indiana. *Illinois State Mus. Repts. Invest.*, 38, 29 pp.
- 1960 **BpbB** Greenberg, Joel. 1983. Natural highs in natural habitats. *Science News*, 124(19):Cover photo + 300-301.  
At University of California at Los Angeles Ronald K. Siegel's "most extensive work has been with elephants - one of at least 28 species that appear to gravitate toward alcohol." Preliminary observations suggest that environmental stress may be an important variable in the self-administration of alcohol in natural habitats (E/SSL).
- 1961 **Lc W** Greig, J. Comrie. 1982. Are the Knysna elephants a distinct race? *Afr. Wildl.*, 36(6):210-215. See Reference Nos. 1937, 1962, 1964, 1968, 2029, 2089, and 2154.
- 1962 **Lc W** Greig, J. Comrie. 1982. The decline and fall of the Knysna elephant. *Afr. Wildl.*, 36(6):199, 201-203 and 206. See Reference Nos. 1937, 1961, 1964, 1968, 2029, 2089, and 2154.
- 1963 **LchW** Greig, J. Comrie. 1982. The elephants of Maputaland. *Af. Wildl.*, 36 (4/5):168-171.
- 1964 **Lc W** Greig, J. Comrie. 1982. The wildlife society and the Knysna elephants. *Afr. Wildl.*, 36(6):195. See Reference Nos. 1937, 1961, 1962, 1968, 2029, 2089, and 2154.
- 1965 **LcqB** Greig, J. Comrie. 1982. Through rose-coloured eyeballs - A clinical look at the introduction of circus elephants to Pilanesberg. *Afr. Wildl.*, 36(6):222-223.
- 1966 **BcvW** Greig, J. Comrie. 1982. White elephants. *Afr. Wildl.*, 36(6):223.
- 1967 **BhfB** Greig, J. Comrie. 1982. "Jumbo". *Afr. Wildl.* 36(3):115.  
Possible derivations of the term "jumbo", meaning large (JLP).  
See Reference Nos. 1912, 1948, and 1956.

- 1968 **Lc W** Greig, J. Comrie. 1983. The Knysna elephants. *Afr. Wildl.*, 37(1):54. See Reference Nos. 1937, 1961-1962, 1964, 2029, 2089, and 2154.
- 1969 **EtgC** Grim, Peter. 1985. Santa Barbara Zoo: Elephant activities. Pp. 12, 14-17, in *Proceedings of the Fifth Annual Elephant Workshop, New Orleans, Louisiana, November 29 - December 1, 1984*, 113 pp.
- 1970 **EbyC** Gucwa, David, and James Ehmann. 1985. To whom it may concern: An investigation of the art of elephants. W.W. Norton & Company, New York, 156 pp.  
An unique, introspective work - truly an investigation, including open discussion and reflection on the significance of this untrained behavior in "Siri", an Asian female elephant at Burnet Park Zoo, Liverpool, New York (SSL).
- 1971 **LecW** Guy, P. R. 1982. Baobabs, *Adansonia digitata* and elephants. *J. Ecol.*, 20(3):215-220.
- 1972 **Bn C** Hackenberger, Michael K., and James L. Atkinson. 1983. Diet digestibilities and ingesta transit times of captive Asian (*Elephas maximus*) and African (*Loxodonta africana*) elephants. Pp. 56-65, in *Proceedings of the Fourth Annual Elephant Workshop held at Kansas City, Missouri, October 14-16, 1983*, 121 pp.
- 1973 **\*h U** Hag, Torgny. 1982. Eighteenth century Swedish discussion about the mammoth. *Svenska Linnesallskap. Arsskt.*, 1979-1981:51-72. (In Swedish, English summary).
- 1974 **Bq C** Hagler, Ernest, and Thom Bear. 1983. Financial and other aspects of the elephant ride at the Kansas City Zoo. Pp. 13-24, in *Proceedings of the Fourth Annual Elephant Workshop held at Kansas City, Missouri, October 14-16, 1983*, 121 pp.
- 1975 **LckW** Hall-Martin, Anthony. 1982. Kruger's tuskers. *Afr. Wildl.*, 36(2):69.  
In response to Mentis's comments in the previous issue, Hall-Martin states that it is "the natural processes within the elephant population and protection from hunting that have produced the big tuskers" (SSL). See Reference Nos. 1939, 2071, and 2080.
- 1976 **LrbW** Hall-Martin, Anthony J., and L. A. Van der Walt. 1984. Plasma testosterone levels in relation to musth in the male African elephant. *Koedoe*, 27:147-149.
- 1977 **\*e U** Hallin, Kurt F. 1983. Hair of the American mastodon indicates an adaptation to a semiaquatic habitat. *American Zoologist Abstracts*, 23(4):949.  
"Although mastodons appear to have been tolerant of several environments, the presence of a furry undercoat suggests an adaptation to a semiaquatic habitat." (E/WLT).
- 1978 **LcgW** Hancock, Peter. 1983. Elephant restocking at Pilanesberg. *African Wildl.*, 37(6):227.
- 1979 **LgcW** Hanks, John. 1981. Characterization of population condition. Pp. 47-73, in *Dynamics of large mammal populations* (Charles W. Fowler and Tim D. Smith, eds.). John Wiley & Sons, New York, xviii + 477 pp.

- 1980 \*huU Hannus, L. Adrien. 1983. Of mammoths, men and ice: making it on the margins. Abstracts of the 96th Annual Meeting of The Geological Society of America, Indianapolis, Vol. 15, No. 6, page 573.  
The Lauge/Ferguson site confirms the existence of an active bone butchering tool industry by Clovis hunters (E/SSL).
- 1981 \*v U Hansen, Michael C., and Myron T. Sturgeon. 1984. A mastodon from Late Wisconsinian Silts, Athen County, Ohio. Compass, 61(2):59-64.
- 1982 \*vgU Hasegawa, Yoshikazu, Takashi Sotsuka, and Kensaku Urata. 1980. Preliminary report on two fossil baby elephant, Palaeoloxodon naumanni from Seiryukutsu-Cave deposits on Hiraodai Karst Plateau, Northern Kyushu, Japan. Bull. Kitakyushu Mus. Nat. Hist., 2:41-47. (In Japanese).  
Includes dental formulae for Stegodon, Palaeoloxodon naumanni, Elephas, and Loxodonta (E/JS).
- 1983 LhjW Hatton, John, Clare Hobsley, and Nick Smart. 1982. Elephant poaching and vegetation changes in Uganda. Oryx, 16(5):404-405.
- 1984 Ep C Heffner, Henry, and Rickye Heffner. 1981. Functional interaural distance and high-frequency hearing in the elephant. J. Acoust. Soc. Amer., 70:1794-1795.
- 1985 Ep C Heffner, Rickye S., and Henry E. Heffner. 1982. Hearing in the elephant (Elephas maximus): absolute sensitivity, frequency discrimination and sound localization. J. Comp. Psychol., 96(6):926-944.
- 1986 Ep C Heffner, Rickye S., and Henry E. Heffner. 1983. Sound localization acuity in mammals and its relation to visual fields. J. Acoust. Soc. Am. Suppl. 1, 73:S42. (Abstract).
- 1987 Ep C Heffner, Rickye, Henry Heffner, and Ned Stichman. 1982. Role of the elephant pinna in sound localization. Anim. Behav., 30(2):628-630.
- 1988 EcbW Helton, David. April 1985. Elephants as guerrillas. BBC Wildlife, 3(4):198.  
Elephants in Sumatra were herded out of a forest two years ago; a village was erected; and farming was started. By January elephants were returning daily to wreak havoc on the area. The government will try to drive the elephants back to their reserve (SSL).
- 1989 ErcC Hess, D. L., A. M. Schmidt, and M. J. Schmidt. 1983. Reproductive cycle of the Asian elephant (Elephas maximus) in captivity. Biol. Reprod., 28(4):767-773.  
"Serum concentration of P4 (progesterone) fell dramatically before parturition, consistent with a role for this steroid in the regulation of gestational length. Male urine testing behavior was clearly cyclical, and maximal interest during the interluteal period was followed by a rapid decrease with the onset of P4 secretion." (E/BC). See Reference No. 2111.
- 1990 \*heU Heusser, C. J. 1983. Quaternary pollen record from Laguna-de-Tagua-Tagua, Chile. Science (Wash. D. C.), 219 (4591):1429-1432.  
Alterations in climate resulted in vegetational changes "during the Holocene with the arrival of Paleo-Indians and the extinction



- of mastodon and horse." (E/BC).
- 1991 **\*evU** Hicock, S. R., K. Hobson, J.E. Armstrong. 1982. Late Pleistocene proboscideans and early Fraser glacial sedimentation in eastern Fraser Lowland British-Columbia, Canada. *Can. J. Earth Sci.*, 19(5):899-906 (BC).
- 1992 **Ea B** Hildebrand, Milton. 1984. Rotations of the leg segments of three fast-running cursors and an elephant. *J. Mamm.*, 65(4):718-720. "Because of its great bulk the elephant holds its back rigid, flexes its legs relatively little, and moves its joints through small arcs." (E/SSL).
- 1993 **LprW** Hodges, J. K., C. Henderson, and A.S. McNeilly. 1983. Circulating estrogen concentrations during pregnancy in the African elephant *Loxodonta africana*. *J. Reprod. Fertil.*, 67 (1):121-128. "Total estradiol-17.beta concentrations were significantly elevated during pregnancy ( $P < 0.01$ ) and, despite considerable individual variation (193-1428 pg/ml), were consistently higher than non-pregnant values after 6 mos. of gestation." (E/BC).
- 1994 **\*vhU** Holman, J. Alan, Daniel C. Fisher, and Ronald O. Kapp. 1986. Recent discoveries of fossil vertebrates in the lower peninsula of Michigan. *Paps. Mich. Acad. Sci., Arts, Letts.*, 18(3):431-463.
- 1995 **BtgC** Holsey, Eddie. 1985. Daily training of African elephants at Chehaw Wild Animal Park. Pp. 18-19, in *Proceedings of the Fifth Annual Elephant Workshop, New Orleans, Louisiana, November 29 - December 1, 1984*, 113 pp.
- 1996 **op** Holthofer, H. 1983. Lectin binding sites in kidney: a comparative study of 14 animal species. *J. Histochem. Cytochem.*, 31(4):531-537. Including elephant, other mammals, and other animals (E/BC).
- 1997 **\*avU** Hooijer, D. A. 1982. Premolars of *Elephas planifrons* from the Pleistocene of Java. *Proc. K. Ned. Akad. Wet. Ser.B.* (Palaeontol., Geol., Phys., Chem.), 85(3):265-272. (BC).
- 1998 **ErmC** Hromadka, Jean. 1985. San Diego Wild Animal Park Asian Elephant Breeding Facility. Pp. 37-40, in *Proceedings of the Fifth Annual Elephant Workshop, New Orleans, Louisiana, November 29 - December 1, 1984*, 113 pp.
- 1999 **Lj W** Huxley, Elspeth, and Hugo van Lawick. 1984. *Last days in Eden*. Harvill Press, London, 192 pp. "This pleasant book is mainly about three things: the Serengeti-Ngorongoro-Lake Manyara area of northern Tanzania, wildlife photography and one particular photographer - Hugo van Lawick. Elspeth Huxley provides the elegant text and Hugo van Lawick the excellent photographs, as might be expected." From a book review by Daniel Stiles in *Swara*, 7(6):30 (E/SSL).
- 2000 **op** Ilnitskii, I.G. 1982. Chemo-tuberculin therapy in association with tissue electrophoresis in the management of patients with recently detected destructive pulmonary tuberculosis. *Vrach. Delo*. 0(11):59-61. (BC).



- 2001 **BzqC** Ireland, Jim. 1983. Elephants and architects. Pp. 6-12, in Proceedings of the Fourth Annual Elephants Workshop, held at Kansas City, Missouri, October 14-16, 1983, 121 pp.
- 2002 **EwjW** Ishwaran, Natarajan. 1981. Comparative study of Asiatic elephant *Elephas maximus* populations in Gal Oya, Sri Lanka. Biol. Cons., 21:303-313.  
Two populations of elephants of two different home-ranges were compared with regard to their group-size-frequency distribution, random aggregations, dependence on dry grass, adult sex ratio, and seasonality in the birth of elephant calves. "The need to carry out similar studies over long periods of time is stressed." (JS).
- 2003 **EecW** Ishwaran, Natarajan. 1983. Elephant and woody-plant relationships in Gal Oya, Sri Lanka. Biol. Conserv., 26(3):255-270.  
"Two sites, having two different elephant populations with non-overlapping home ranges, were selected for studies on elephant and woody plant relationships." (E/BC).
- 2004 **Ec W** IUCN/WWF Asian Elephant Coordinating Centre. 1982. Summarized Minutes of the 2nd Meeting of the Asian Elephant Specialist Group held at Sri Lanka Foundation Institute, Colombo, 20-21 August, 1980. Elephant, 2(1):94-128.
- 2005 **LmcW** Jachmann, Hugo, and R.H.V. Bell. 1984. The use of elephant droppings in assessing numbers, occupance and age structure: a refinement of the method. African J. Ecol., 22(2):127-141.
- 2006 **Lm W** Jachmann, Hugo. 1984. Assessment of elephant numbers by means of dropping counts on tracks and its use in the Nkhotakota Game Reserve, Malawi. Nyala, 101(1):33-38.
- 2007 **Le W** Jachmann, Hugo. 1984. Spatial organization of the Kasungu elephant. Bijl. Dierk., 53(2):179-186.
- 2008 **LemW** Jachmann, Hugo. 1984. The ecology of the elephants in the Kasungu National Park, Malawi; with specific reference to management of elephant populations in the Brachystegia biome of southern central Africa. University of Groningen, The Netherlands, 154 pp.  
"This thesis is a collection of separate articles, each illustrating a different aspect of elephant ecology in the Brachystegia biome of Southern Central Africa. Of all megaherbivores the elephant is the most important animal in African Wildlife Management..." (E/SSL).
- 2009 **LcgW** Jackson, Peter (editor and compiler). 1982. Elephants and rhinos in Africa: a time for decision. International Union for Conservation of Nature and Natural Resources, Gland, Switzerland, 36 pp.
- 2010 **Lc W** Jackson, Peter. 1982. The future of elephants and rhinos in Africa. Ambio., 11(4):202-205. (BC).
- 2011 **LuiW** Jackson, Peter. 1983. Elephants and rhinos in Africa. IUCN Bulletin, Gland, Switzerland, 14(1/2/3):8-9.  
This is a summary of the 36-page report. "...the deteriorating situation of elephants and rhinos is closely linked with our economic problems." (E/SSL). See Reference No. 2009 for full report.

- 2012 **Lm W** Jackson, Peter. 1984. A cruel dilemma in Zimbabwe. *Swara*, 7(4):22-23.  
"Because of the recent severe drought and pressure for land, Zimbabwe is planning to reduce its elephant population by 30 per cent over the next few years." (E/SSL).
- 2013 **EgmW** Jackson, Peter. 1986. Running out of room. *Internat. Wildl.*, 16(5):4-11.  
Elephants still play important roles in ceremonies; ironically however, in parts where elephant habitats have been dwindling, they have become a menace, raid crops and kill people. The estimated wild elephant population in Asia is between 30,000 and 40,000, broken down as follows: India 19,505-25,371; Burma 8,400-11,400; Thailand 7,419-9,209; Indonesia 2,800-4,800; Sri Lanka 2,700-3,200; Malaysia 1,296-2,796; Bangladesh 270-340; China 230; Nepal 45; Kampuchea, Laos, and Vietnam all unknown (JBK).
- 2014 **EcmW** Jayewardene, Jayantha. 1984. Elephant conservation amidst development. *Tigerpaper*, 11(4):21-26.  
Description of the elephant relocation drives in Sri Lanka (into Wilpattu National Park) and followup studies in progress (SSL).
- 2015 **\*v U** Jin, Changzhu. 1983. A new fossil elephant from Weixan, Shandong Province. *Vert. Palasiatica*, 21(3):255-264. (In Chinese, English summary; Sp. nov. *Archidiskodon weifangensis*).
- 2016 **LucW** Jones, David Keith. 1985. Horizons: Kenya: Samburu/Buffalo Springs National Reserve. *Swara*, 8(1):19.  
During the drought in East Africa, snaring has increased and a baby elephant was seen with a wire snare around its head and ears (SSL). See also Reference No. 1852.
- 2017 **LrbW** Jones, David Keith. 1985. Horizons: Kenya: Aberdares Salient. *Swara*, 8(1):20.  
A baby elephant was observed being born at 6:50 p.m. on 9 November 1984 in a group of adult and half grown elephants (E/SSL).
- 2018 **LrgW** Jones, David Keith. 1985. New life at the Ark. *Swara*, 8(2):29-31.  
Account of an elephant birth in the glade close to the lodge in Aberdare National Park, Kenya, on 9 November 1984 (E/SSL).
- 2019 **\*v U** Judichev, Ju.F., and A.I. Averikhin. 1982. On the macro and micromorphology of organs in the ventral cavity of the Shandrin mammoth and the causes of the death. *Trudy Zool. Inst. Leningrad*, 111:35-37. (In Russian).
- 2020 **\*vhU** Kalb, J.E., C.J. Jolly, A. Mebrate, S. Tebedge, C. Smart, E.B. Oswald, D. Cramer, P. Whitehead, C.B. Wood et al. 1982. Fossil mammals and artifacts from the Middle Awash Valley, Ethiopia. *Nature (Lond.)*, 298(5869):25-29.
- 2021 **\*v U** Kalb, J.E., C.J. Jolly, S. Tebedge, A. Mebrate, C. Smart, E.B. Oswald, P.F. Whitehead, C.B. Wood, T. Adefris, T. and V. Rawn-Schatzinger. 1982. Vertebrate faunas from the Awash group Middle Awash Valley, Afar, Ethiopia. *J. Vertebr. Paleontol.*, 2(2):237-258.  
Includes Gomphotheriidae; Anacinae and Elephantidae; Stegotetrabelodontinae. The Middle Awash sequence (5.0-6.0

- million yrs. long) is "one of the most extensive faunal records in the African Neogene." (E/BC).
- 2022 **EweW** Karanth, K.U. 1982. Factors governing the distribution of wild mammals in Karnataka, India. J. Bombay. Nat. Hist. Soc., 79(2):409-411.  
Includes species of the following families: Elephantidae, Bovidae, Cervidae, Suidae, Canidae, Felidae, Hyaenidae, and Ursidae (E/BC).
- 2023 **Bq B** Kaufman, Ronald L. 1983. First response to an elephant attack. Pp. 35-38, in Proceedings of the Fourth Annual Elephant Workshop held at Kansas City, Missouri, October 14-16, 1983, 121 pp.
- 2024 **o** Kazatchkine, M. 1982. Immunochemical characteristics of acquired inhibitors of factor-VIII in hemophiliacs. Meeting of the Group for the Study of Hemostasis and Thrombosis on the Treatment of Hemophiliacs with Inhibitors, Paris, France, Feb. 5, 1982. Nouv. Rev. Fr. Hematol., 24(4):255-256. (In French) (BC).
- 2025 **Ec W** Khan, M.A.R. 1984. Endangered mammals of Bangladesh. Oryx, 18(July):152-156.  
Asian elephants are now isolated in small pockets of Chittagong, Cox's Bazar and Hill Tracts Divisions; the population may not exceed 200. Another 50 or so wander in the border forests (SSL).
- 2026 **UpaU** Kier, William M., and Kathleen K. Smith. 1985. Tongues, tentacles and trunks: the biomechanics of movement in muscular-hydrostats. Zool. J. Linnean Society, 83:307-324.
- 2027 **Er C** Kiltie, Richard A. 1982. Intraspecific variation in the mammalian gestation period. J. Mammal., 63(4):646-652.  
Statistical treatment of data from many studies; for elephants the author used Burne's data (1943) to derive a mean gestation period of 626 days (SSL). See Reference No. 1728 in Elephant, 2(1):224.
- 2028 **La U** Kingdon, Jonathan. 1981. Mammalia africana: An exhibition of drawings from "East African mammals, an atlas of evolution in Africa" published by Academic Press, New York, 64 pp. Pages 42-53, Loxodonta africana.
- 2029 **LhcW** Koen, Julius H. 1982. The Knysna elephants: a relict population. Elephant, 2(1):131-134. See Reference Nos. 1937, 1961-1962, 1964, 1968, 2089, and 2154.
- 2030 **Le W** Koen, Julius H. 1983. Seed dispersal by the Knysna elephants. Suid-Afrikaanse Bosboutydskrif Nr., (124):56-58.  
In experiments few tree seedlings planted in elephant feces germinated and no seedlings were observed in boli of various ages in the forest, unlike observations in other parts of East Africa (SSL).
- 2031 **Le W** Krikken, J. 1983. An interesting case of camouflage in African dung beetles of the genus Drepanocerus coleoptera Scarabaeidae. Entomol. Ber. (Amst.), 43(6):90-92.  
The beetle is camouflaged by its resemblance to coarse elephant dung particles both by its shape and color (E/BC).

- 2032 **LgbW** Kuenkel, Reinhard. 1982. Elephants. Harry N. Abrams, Inc., New York, 255 pp.  
Book reviews appeared in TIME magazine, December 13, 1982; in DISCOVER, December 1982; and in LIFE magazine. First published in 1981 in German, translated to English by Ursula Konneitchouk. Text: pages 11-94, color plates: pages 95-240, captions for plates: pages 241-252. Superb color photographs, most were taken in Tanzania, East Africa (JGE).
- 2033 **\*vhU** Kurten, Bjorn. 1986. How to deep-freeze a mammoth. Columbia University Press, New York, vii + 121 pp.  
Based on a translation by Erik J. Friis of the original work published in Swedish in 1981, this volume is a collection of essays on the Ice Age (SSL).
- 2034 **LrmC** Landers, Lisa. 1986. Update on African elephant calves. Zoonooz, 59(4):11.  
A note on two calves (from San Diego Zoo) born at the Wild Animal Park, San Diego, California, written a year after they were sent to Guangzha Zoo, People's Republic of China (JKB).
- 2035 **LalW** Lark, R. Murray. 1984. A comparison between techniques for estimating the ages of African elephants (Loxodonta africana). Afr. J. Ecol., 22:69-71.  
"....both Laws' and Sikes' age-estimation techniques for African elephants give useful measures of the stage of molar progression, although both have certain intrinsic difficulties. Laws' age estimation technique has gained most general use probably because it requires only a rapid, superficial, inspection of the Jaw." (E/SSL).
- 2036 **Bc C** Lash, Sandra S. (compiler). 1982. Captive elephant population of North America: 1982 update. Elephant, 2(1):147-150.
- 2037 **BgzB** Lash, Sandra S. 1983. Almost everything you always wanted to know about the Elephant Interest Group - or what is EIG? Pp. 2-5, in Proceedings of the Fourth Annual Elephant Workshop held at Kansas City, Missouri, October 14-16, 1983, 121 pp.
- 2038 **a** Lauer, E.W. 1982. Telencephalon of ungulates. Pp. 501-524, in Comparative correlative neuroanatomy of the vertebrate telencephalon. (E.C. Crosby & H.N. Schnitzlein, eds.). Macmillan Publishing Co., Inc., New York, xv + 836 pp. (BC).
- 2039 **Lg W** Laws, Richard M. 1981. Experiences in the study of large mammals. Pp. 19-45, in Dynamics of large mammal populations. (Charles W. Fowler and Tim D. Smith, Eds.). John Wiley & Sons, New York, xviii + 477 pp.
- 2040 **BdqC** Leach, Ellen. 1983. Vaginal virus in a mixed elephant herd. Pp. 79-80, in Proceedings of the Fourth Annual Elephant Workshop held at Kansas City, Missouri, October 14-16, 1983, 121 pp.
- 2041 **\*yhU** Leakey, Mary D. 1983. Tanzania's Stone Age art. Natl. Geogr., 164(1):90-91.  
An elephant hunt portrayed in Stone Age paintings on cave walls (FZ).

- 2042 **EgtC** Lehnhardt, John. 1985. A new approach to chaining elephants at the Calgary Zoo. Pp. 4-8, in Proceedings of the Fifth Annual Elephant Workshop, New Orleans, Louisiana, November 29 - December 1, 1984, 113 pp.
- 2043 **LucW** Lever, Christopher. 1983. Wildlife conservation in the southern Sudan. *Oryx*, 17(October):190-193.  
 "Less easy to cope with are the large and heavily armed gangs of commercial poachers from the province of Darfur in the north, who, mounted on camels, have been slaughtering huge numbers of elephants for their ivory in Bahr-el-Ghazal in the south, where there have been several skirmishes with ill-equipped government forces." (E/SSL).
- 2044 **Lc W** Lewis, D.M. 1984. Demographic changes in the Luangwa Valley elephants. *Biol. Conser.*, 29(1):7-14.
- 2045 **LecW** Lindsay, W. Keith. 1983. Elephants, trees and people. *Wildlife News*, 18(2):8-11.  
 The author has been developing predictions based on short-term data and simple mathematical models for possible outcomes to the disturbances acting on Amboseli National Park (SSL).
- 2046 **LkcW** Lindsay, W. Keith. 1986. Elephant problems and human attitudes. *Swara*, 9(3):24-27.  
 "On what basis do managers decide whether or not a population of elephants should be culled and how valid can this decision be in the present state of our knowledge?... It is clear that the issues surrounding elephant culling are complex and often reflect contradictory viewpoints." (E/JS).
- 2047 **+ovB** Lowenstein, Jerold M. 1985. Molecular approaches to the identification of species. *American Scientist*, 73:541-547. See Reference No. 2150.
- 2048 **\*v U** Lucas, S.G. 1982. The evolution of large terrestrial mammals perspectives and problems. 3rd. North American Paleontological Convention, Montreal, Que., Canada, Aug 5-7, 1982. *J. Paleontol.*, 56(2 suppl.):17 (BC).
- 2049 **LumW** MacCartney, Clement. 1983. News from WWF & IUCN: Poaching in the southern Sudan. *Swara*, 6(6):24-25.  
 In 1982 Sudan became the single largest exporter of ivory in Africa. The average tusk weight imported into Hong Kong has declined drastically, yet large numbers of animals are being killed, perhaps indiscriminately. Phil Snyder estimates that 10,000 to 20,000 are being slaughtered in south Sudan each year (SSL).
- 2050 **Ly W** MacClintock, Dorcas. 1984. African images. A look at animals in Africa. Charles Scribner's Son, New York, 158 pp.
- 2051 **BizB** MacGregor, Arthur. 1985. Bone, antler, ivory and horn: The technology of skeletal material since the Roman Period. Croom Helm, London & Sydney, 245 pp.  
 Well illustrated. Discusses the differences between the ivories of elephant species, availability, and anatomical structure. On p. 17 dental formula should be I 1/0 C 0/0 dpm 3/3 M 3/3, not I 1/0 C 0/0 P 0/0 M 3/3 (JS).

- 2052 \*g U Madden, Cary T. 1982. Mammoths of North America. Diss. Abstr. Int., B. Sci. Eng., 42(11):4339.
- 2053 \*avU Madden, Cary T. 1982. Primitive Stegotetrabelodon from the latest Miocene of Sub-Saharan Africa. Rev. Zool. Africaine, 96(4):782-796.
- 2054 \*v U Madden, Cary T. 1983. Classification of the Proboscidea: Part 1. J. Paleontol. Soc. India, 28:59-60.
- 2055 \*v U Madden, Cary T., and Frank C. Whitmore, Jr. 1983. Tertiary vertebrate faunas of Arabian Peninsula. Abstracts of the 96th Annual Meeting of The Geological Society of America, Indianapolis, Vol. 15, No. 6, p. 633. Stegotetrabelodon grandincisivum (family Elephantidae) and Gomphotherium sp. (family Gomphotheriidae) are the only two proboscideans mentioned in this abstract (JS).
- 2056 \*v U Mahboubi, M., R. Ameur, J. Y. Crochet, and J. J. Jaeger. 1984. Earliest known proboscidean from early Eocene of northwest Africa. Nature, 308(5959):543-544.
- 2057 \*vaU Mahboubi, M., R. Ameur, J. Y. Crochet, and J. J. Jaeger. 1986. El Kohol (Saharan Atlas, Algeria): a new Eocene mammal locality in northwestern Africa; stratigraphical, phylogenetic and paleobiogeographical data. Palaeontographica Abt A, 192(Lfg. 1-3):15-49.  
A new genus and species by J. J. Jaeger: Numidotherium koholense, whose evolutionary relationships within the Proboscidea is interpreted as a sister-group to clade of Elephantidae and Deinotheriidae, or a sister-group to Deinotheriidae and the resultant branch is a sister to Elephantidae. In either case, Moeritherium is the earliest offshoot of the Proboscidea in Text-fig. 16 (JS).
- 2058 Ea B Mariappa, D. 1986. Anatomy and histology of the Indian elephant. Indira Publishing House, Oak Park, Michigan, 209 pp.  
The introduction includes incorrect and/or misleading statements (e.g., elephants and horses are closely related, "the elephants have six digits indicating hexadactyl ancestry", and the "pronounced development of upper incisors found in elephants is shared by rodents...") and inconsistencies with the text, e.g., sternum with four parts (page xii), with one part (page 3), and with two parts (page 17). The text, on leafing through it, seems to be professionally prepared but needs to be read carefully. A review will appear in the next issue of Elephant (JS).
- 2059 EgbC Markowitz, Hall. 1982. Behavioral enrichment in the zoo. Van Nostrand Reinhold Co., New York, 210 pp.  
The author discusses behavioral enrichment for many animals in the zoo, but almost one-tenth of the book is devoted to discussions of work with Asian elephants at Washington Park Zoo and elsewhere (DEM).
- 2060 \*v U Marshall, Larry G., S. David Webb, J. John Sepkoski, Jr., and David M. Raupp. 1982. Mammalian evolution and the Great American Interchange. Science, 215(4538):1351-1357.  
"A reciprocal and apparently symmetrical interchange of land mammals [including Proboscidea (Gomphotheriidae)] between North and South America began about 3 million years ago, after the



- appearance of the Panamanian land bridge." (E/JS).
- 2061 **Li W** Martin, Esmond Bradley. 1983. The world ivory trade. *Swara*, 6(4):28 - 32.  
 "Elephants in East Africa would not be poached for their tusks if there was no market for the ivory. A recent study of this market in Hong Kong and Japan provides hope that ivory traders might be willing to accept a reduction in imports." Price of a kilogram of uncarved ivory was US \$39.23 in 1982, down from US \$65.42 in 1978 (SSL).
- 2062 **BicB** Martin, Esmond Bradley. 1985. The Japanese Ivory Industry. World Wildlife Fund - Japan, Tokyo, 52 pp. (paperback). See Reference No. 2161.
- 2063 **\*gvU** Martin, Paul S. and Richard G. Klein. 1984. Quaternary extinctions: A prehistoric revolution. The University of Arizona Press, Tucson, Arizona, x + 892 pp.
- 2064 **LdqC** McGavin, M.D., E.C. Schroeder, R.D. Walker, and M.D. McCracken. 1981. Fatal aspiration pneumonia in an African elephant. *JAVMA*, 179(11):1249-1250.
- 2065 **LdqC** McGavin, M.D., R.D. Walker, E.C. Schroeder, C.S. Patton, and M.D. McCracken. 1983. Death of an African elephant from probable toxemia attributed to chronic pulpitis. *JAVMA*, 183(11):1269-1273.
- 2066 **Ee W** McKay, G.M. 1984. Ecology and biogeography of mammals. Pp. 413-429, in *Ecology and biogeography in Sri Lanka* (C. H. Fernando, ed.). W. Junk Publ., The Hague, 505 pp.
- 2067 **LprW** McNeilly, A.S., R.O. Martin, J.K. Hodges, and G.L. Smuts. 1983. Blood concentrations of gonadotropins prolactin and gonadal steroids in males and in nonpregnant female African elephants *Loxodonta africana*. *J. Reprod. Fertil.*, 67(1):113-120.  
 "During pregnancy, progesterone levels were significantly higher than in non-pregnant females with maximum levels occurring at mid-pregnancy (9-12 mo.)." In addition, "prolactin levels increased dramatically during pregnancy." This "increase in plasma/serum levels of prolactin can be used to diagnose pregnancy in the elephant." (E/BC).
- 2068 **\*evU** Mead, Jim I., Larry D. Agenbroad, Owen K. Davis and Paul S. Martin. 1986. Dung of *Mammuthus* in the arid Southwest, North America. *Quaternary Research*, 25:121-127.  
 First comparison of the physical characteristics and the diet of the dung of extinct mammoths from North America with those of Siberia and northern China (SSL).
- 2069 **a** Meister, Rolf. 1983. Zur anatomie der Backenzahnbildung bei Elefanten. *Zool. Garten*, 53(3/5):275-280.
- 2070 **Eq C** Mellen, Jill D. 1981. Environmental enrichment for servals, Indian elephants and Canadian otters *Felis serval*, *Elephas maximus*, *Lutra canadensis* at Washington Park Zoo, Portland. *Internat. Zoo Yrbk.*, 21:196-201.
- 2071 **LinW** Mentis, M. T. 1982. The Kruger Park tuskers - a conservation "phallacy?" *Afri. Wildl.*, 36(1):7.  
 The author contests "the big tusker craze" in which 'freaks' are worshipped and selected rather than allowing an "abnormal character" to exist in usual statistical numbers (SSL). See



- Reference Nos. 1939, 1975 and 2080.
- 2072 **LjmW** Mercer, Graham. 1983. Mikumi National Park. *Swara*, 6(2):31-33. This park lies 180 miles west of Dar es Salaam (Tanzania). "The elephants in Mikumi are thriving; it is not unusual to see two hundred or more in a day." In 1980 Tanzania's wild elephant population was estimated to be 316,300, the second largest in Africa. The largest wild population was that of Zaire, 371,700 elephants. (After I. Douglas-Hamilton, see *National Geographic Magazine*, 158(5):579) (JS).
- 2073 **LenW** Merz, Gunter. 1984. Horizons: The forest elephant in Tai National Park, Ivory Coast. *Swara*, 7(5):21.
- 2074 **LctC** Miller, Jerry. 1985. Potter Park Zoo's Elephant Maintenance Program. Pp. 57-60, in *Proceedings of the Fifth Annual Elephant Workshop*, New Orleans, Louisiana, November 29 - December 1, 1984, 113 pp.
- 2075 **LemW** Milligan, K., S.S. Ajayi, and J.B. Hall. 1982. Density and biomass of the large herbivore community in Kainji Lake National Park, Nigeria. *Afr. J. Ecol.*, 20(1):1-12. Ground and aerial surveys indicate an elephant population of more than 500; aerial survey showed more animals during the dry season, with significant changes in densities of elephants in the period 1970-1976 (BC).
- 2076 **Bsp** Mohr, J.L., K.G. Jollie, and T.P. Smith. 1982. Ciliates of elephant ceca. 35th Annual Meeting of the Society of Protozoologists. San Francisco, Calif., U.S.A., August 1-5, 1982. *J. Protozool.*, 29(3):482 (BC).
- 2077 **\*vaU** Mol, D. 1983. On radio-ulnar synostosis of late Pleistocene elephants. *Z. Säugetierkd.*, 48(1):55-59. (In German; English summary). Comparing bones of *Mammuthus primigenius* (Blumenbach, 1799) to *Elephas falconeri* (Busk, 1868) and discussing adaptation to specific environment (E/BC).
- 2078 Monappa, P.M. and C.P. Groves. 1984. Elephants at work. *Hemisphere*, 28(5):285-291.
- 2079 **Bd C** Montali, Richard J., and George MiGaki (eds.). 1980. The comparative pathology of zoo animals. *Proceedings of a symposium held at the National Zoological Park, Smithsonian Institution, October 2-4, 1978*. Smithsonian Institution Press, Washington, D.C., 684 pp.
- 2080 **LicW** Morkel, Bill. 1982. Letters: Long live the tusker! *Afr. Wildl.*, 36(3):119. A comment on M.T. Mentis's article in Vol. 36, No. 1 on the tuskers of East Africa, with substantial support for "normalcy" of these giants (SSL). See Reference Nos. 1939, 1975, and 2071.
- 2081 **LcmW** Morris, J. (ed.). 1984. A trust to fight for desert wildlife in Namibia. *Oryx*, 18(October):215-217. Information supplied by Barry Clements, Blythe Loutit, Garth Owen-Smith, and P. J. Viljoen about the Namibia Wildlife Trust Program. An aerial survey in 1982 revealed elephants in only three places in Kaokoland (a total of 41 animals) and only 30-36 remaining in Damaraland (SSL). See Reference No. 2092.

- 2082 **LgjW** Moss, Cynthia J. 1982. Portraits in the wild: behavior studies of East African mammals (Second Edition). The University of Chicago Press, Chicago, xi + 371 pp. Chapter I: The African elephant, pp. 1-38 + photographs.
- 2083 **LrbW** Moss, Cynthia J. 1983. Oestrous behaviour and female choice in the African elephant. *Behaviour*, 86(3-4):167-196.  
Observations during an 8-year study of estrous behaviors of African elephant indicated that females may exercise choice of mating partner (E/BC).
- 2084 **d** Moucha, Pavel. 1982. A contribution to the treatment and diagnosis of the parasitic diseases in elephants. *Gaxella*, 3(1):129-130.  
(In Czech, English summary).
- 2085 **BcgC** Moy, Susan. 1985. Communication: Problems and Solutions. Pp. 42-55, in *Proceedings of the Fifth Annual Elephant Workshop*, New Orleans, Louisiana, November 29-December 1, 1984, 113 pp.  
To attempt to have a smooth elephant program, it is important for all the people who work with elephants to listen well to others' statements of problems and to learn to approach people with your statements of problems (E/SSL).
- 2086 **LcgW** Myers, Norman. 1982. An old safarist's reminiscences of Africa. *Zoonooz*, 55(12):12-24.
- 2087 **LuiW** Myers, Norman. 1983. Massacre of the species. *IUCN Bulletin*, Gland, Switzerland, 14(1/2/3):22-23.  
"...the save-species cause will not succeed until both factors - growth in human numbers and growth in human aspirations - are stabilized." (E/SSL).
- 2088 **BcmW** Myers, Norman. 1985. The end of the lines. *Natural History*, 94(2):2-12.
- 2089 **Lc W** Olivier, W.A. 1982. The Knysna elephants - Who's to blame? *Afr. Wildl.*, 36(6):196. See Reference Nos. 1937, 1968, and 2029.
- 2090 **\*a U** Olsen, Stanley J. 1982. An osteology of some Maya mammals. *Pap. Peabody Mus. Archaeol. Ethnol.*, Vol. 73, 91 pp.
- 2091 **Bghc** Ormrod, Stefan. 1983. The circus elephant. Pp. 35-38, in *Management of Pachyderms* (Jon Barzdo, ed.), *Proceedings of Symposium 7 of the Association of British Wild Animal Keepers*, Bristol, 48 pp.  
Author argues against elephants in circuses (SSL).
- 2092 **LjcW** Owen-Smith, G. 1986. The Kaokoveld, South West Africa/Namibia's threatened wilderness. *Afr. Wildl.*, 40(3):cover, and 104-107, 109, 111, 113-115..  
"In 1970, desert-dwelling elephants probably totalled between 300 and 400 animals; by 1982, illegal hunting had reduced their number to fewer than 70." "...for the first time in fifteen years, the numbers of elephants and black rhinoceros in this spectacular and fascinating region had increased." (E/JS). See Reference Nos. 1858 and 2198.
- 2093 **EyhB** Pal, Pratapaditya. 1981. Elephants and ivories in South Asia. *Museum Associates of the Los Angeles County Museum of Art*, Los Angeles, 112 pp.

- 2094 **\*veU** Park, Edwards. 1982. Around the Mall and beyond. *Smithsonian*, 13(3):18,20,22.  
Description of the excavation of a mammoth by Dennis Stanford and Gary Haynes, of the Smithsonian Institution, in Marlboro, Maryland. Radiocarbon date: 20,070 + 265 years (SSL).
- 2095 **Lc W** Parker, Ian S.C. 1980. Elephants: a valuable trophy? In wildlife management and utilisation. Proceedings of the Fifth Regional Wildlife Conference for Eastern and Central Africa. Ed. by the Dept. of Wildl. & Natl. Parks, Botswana. Government printers, Gaborone, Botswana.
- 2096 **LimW** Parker, Ian S.C., and Esmond B. Martin. 1982. How many elephants are killed for the Ivory Trade? *Quagga*, 2:2-7.  
The authors found that the number of African elephants involved in the ivory trade is much less than has been suggested - "50,000 to 100,000" a year. Their figures show that in 1976 54,625 elephants had been killed/died and 37,482 elephants in 1980." (JS).
- 2097 **LicW** Parker, Ian S.C., and Esmond B. Martin. 1983. Further insight into the international ivory trade. *Oryx*, 17(October):194-200.
- 2098 **LicW** Parker, Ian S.C., and Mohamed Amin. 1983. Ivory crisis. Chatto & Windus, Ltd., London, 183 pp. See Reference No. 2160.
- 2099 **Eol** Pashko, A.L. and A.G. Schwartz. 1982. Inverse correlation between species life span and specific cytochrome P-448 content of cultured fibroblasts. *J. Gerontol.*, 37 (1):38-41.  
"There was a good inverse correlation between potential species lifespan and the specific cytochrome P-448 content of cultured fibroblasts." (E/BC).
- 2100 **Ld W** Pateman, Bob. 1984. Anthrax claims more wildlife in Manyara. *Swara*, 7(4):19.
- 2101 **EpbC** Payne, Katherine B., William R. Langbauer, Jr., and Elizabeth M. Thomas. 1986. Infrasonic calls of the Asian elephant (*Elephas maximus*). *Behavioral Ecology and Sociobiology*, 18(4):297-301.  
"Calls at frequencies below the range of human hearing (14 to 24 hz) were recorded from two groups of captive Asian elephants..."  
"Elephants are the first terrestrial mammals reported to produce infrasound. These calls may be important in the coordination of behavior in thick vegetation or among separated groups of elephants." (E/JS).
- 2102 **LdiW** Paynter, David. 1982. Death of Shingwidzi. *Afr. Wildl.*, 36(2):70.  
One of the big tuskers of the Kruger National Park died from a probable stroke in early 1981 (SSL). See Reference Nos. 1939, 1975, 2071, and 2080.
- 2103 **LecW** Pellew, R.A.P. 1983. The impact of elephant, giraffe and fire upon the *Acacia tortilis* woodlands of the Serengeti, Tanzania. *J. Ecol.*, 21(1):41-74.  
"The effects of the combination of low elephant densities and high giraffe densities prevalent in the Serengeti produce a dynamic system in which the woodland structure oscillates between mature canopy and open regeneration-grassland phases." (E/BC).

- 2104 **Lc W** Pitman, Dick. 1984. Utility and sorrow. *BBC Wildl.*, 2(2):76-81.  
"To some, the elephant is an object of priceless beauty; to others, \$2,000 on the hoof." "The answer is not to deride the emotion itself, but to mix it with information - and to turn it from what may be a superficial, passing thing into a philosophical framework for the future of wildlife based on overriding universal values." (E/SSL).
- 2105 **Lp W** Poole, Joyce H., L. H. Kasman, E. C. Ramsay, and B. L. Lasley. 1984. Musth and urinary testosterone concentrations in the African elephant (*Loxodonta africana*). *J. Reprod. Fert.*, 70(1):255-260.
- 2106 **Lh C** Preston, Douglas J. 1983. Jumbo, king of elephants. *Nat. Hist.*, 92(3):80-83. See Reference Nos. 1434 and 1943, also on Jumbo.
- 2107 **\*a U** Price, Alta. 1982. FORUM: Mammoth histology. *Kronos*, 7(4):90-96. See Reference Nos. 1899, 1932, 1933, and 2215.
- 2108 **\*e U** Provotorova, V.G., and A.Ya. Ryabikov. 1982. Some biochemical data on the contents of the stomach and intestines of the Shandrin mammoth. *Trudy Zool. Inst. Leningrad*, 111:29-34. (In Russian).
- 2109 **ErbW** Ramachandrau, K. K. 1984. Observations on an unusual sexual behaviour in elephant. *J. Bombay Nat. Hist. Soc.*, 81(3):687. An example of 'redirected sexual activity' as described earlier by Eisenberg et al. (1971) (JS). See Reference No. 212 in *Elephant*, 1(2):54.
- 2110 **Br B** Rasmussen, Lois E., Irven O. Buss, David L. Hess, and Michael J. Schmidt. 1984. Testosterone and dihydrotestosterone concentrations in elephant serum and temporal gland secretions. *Biol. Reprod.*, 30:352-362.
- 2111 **ErpC** Rasmussen, Lois E., Michael J. Schmidt, Roger Henneous, Douglas Groves, and G. Doyle Daves, Jr. 1982. Asian bull elephants: flehmen-like responses to extractable components in female elephant estrous urine. *Science*, 217(4555):159-162.  
"Components of the urine of estrous cow elephants were extracted with organic solvents and partially purified by chromatography and shown to evoke Flehmen-like responses when they were presented to adult bulls." (E/BC). See Reference No. 1989.
- 2112 **LjnW** Redmond, Ian. 1982. Saltmining elephants of Mount Elgon. *Swara*, 5(4):28-31. See Reference Nos. 2113 and 2114.
- 2113 **LjnW** Redmond, Ian. 1982. The salt mining elephants of Mount Elgon. *Wildlife*, 24(8):288-293.  
These are the only elephants known to actively dig for salt underground. Redmond believes that generations of elephants have gradually excavated the large caves over thousands of years. Mount Elgon is on the border between Kenya and Uganda (JS). See Reference Nos. 2112 and 2114.
- 2114 **LjnW** Redmond, Ian. 1984. Underground elephants. *Animal Kingdom*, 86(6):30-37. See Reference Nos. 2112 and 2113.
- 2115 **Ln W** Rees, P.S. 1982. Gross assimilation efficiency and food passage time in the African elephant. *Afr. J. Ecol.*, 20(3):193-198. Previous estimates of food assimilation efficiency were too high and were recalculated (E/BC).

- 2116 **LjpW** Rees, P.S. 1983. Synchronization of defaecation in the African elephant (Loxodonta africana). J. Zool., 201(4):581-585.  
Synchronization of defaecation in elephants may have developed to avoid predators by maintaining integrity of the herd as "it would be advantageous for individuals only to defecate when the herd is not moving." (JS).
- 2117 **Le W** Ridgers, W.A. 1982. The decline of large mammal populations on the Late Rukwa grasslands, Tanzania. Afr. J. Ecol., 20(1):13-22.
- 2118 **LagC** Robinson, Phillip T. 1981. Photograph of young forest elephant (Loxodonta africana cyclotis) in Liberia. Zoonoos, 54(10):15.
- 2119 **BovB** Romero-Herrera, Alejo E., Morris Goodman, Howard Dene, David E. Bartnicki, and Hiroshi Mizukami. 1981. An exceptional amino acid replacement on the distal side of the iron atom in proboscidean myoglobin. J. Mol. Evol., 17:140-147.  
Myoglobins of Loxodonta africana and Elephas maximus are different from myoglobins of most other mammals in having at position 64=E7 amino acid Glutamine (Gln) instead of amino acid Histidine (His). The two elephants differ from each other in that at position 129 L. africana has amino acid Alanine (Ala) whereas E. maximus has amino acid Glycine (Gln). (JS). See article by Mizukami and Bartnicki in Elephant, 2(2).
- 2120 **EmrC** Rost, Alan F. 1985. Births, bulls, and other bits of data about the Asian elephant in North America. Pp. 27-36, in Proceedings of the Fifth Annual Elephant Workshop, New Orleans, Louisiana, November 29 - December 1, 1984, 113 pp.
- 2121 **EavB** Roth, V. Louise, and Jeheskel Shoshani. 1986. Dental categories in the ontogeny of Elephas maximus. Paper presented at the 66th Annual Meeting, American Society of Mammalogists, University of Wisconsin-Madison, Madison, Wisconsin, 15-19 June 1986. (Abstract No. 256).
- 2122 **EndC** Sanford, James. 1983. Rehabilitation of an emaciated elephant. Pp. 81-85, in Proceedings of the Fourth Annual Elephant Workshop held at Kansas City, Missouri, October 14-16, 1983, 121 pp.  
After having a molar removed, a 35 year old circus elephant lost about 1,500 pounds. She was loaned to the Institute for Wild and Exotic Animals Studies, Moorpark, California, for rehabilitation (SSL).
- 2123 **EmcW** Santiapillai, Charles, and Hayani Suprahman. 1985. Habitat management in Way Kambas Game Reserve with reference to the elephant population (WWF/IUCN Project 3133 - No. 2). Tigerpaper, 12(1):21-27.  
The Way Kambas Game Reserve is situated in the southeastern part of Sumatra and is one of the largest reserves in Indonesia. The number of elephants in southern Sumatra is estimated to be between 110 and 130; within the Reserve it is about 40-50. Enhancement of the plant species which elephants prefer plus meeting other habitat needs would enable the Reserve to carry elephants at optimum density (E/SSL).

- 2124 **Ee W** Santiapillai, Charles, M.R. Chambers, and Natarajan Ishwaran. 1984. Aspects of the ecology of the Asian elephant Elephas maximus L. in the Ruhuna National Park, Sri Lanka. *Biol. Conserv.*, 29(1):47-61.
- 2125 **EwcW** Sarker, Sohrab Uddin, and Noor Jahan Sarker. 1983. Endangered wildlife of Bangladesh. *Tigerpaper*, 10(2):26-28. Elephas maximus is found only in three of the six districts formerly documented (SSL).
- 2126 **EweW** Sarker, Sohrab Uddin, and Noor Jahan Sarker. 1984. Mammals of Bangladesh - their status, distribution and habit. *Tigerpaper*, 11(1):8-13. The authors have prepared a list of observed mammals, mentioning their status, distribution and habitat. Asian elephants were found (in forest habitat) "fairly common" in Chittagong, Chittagong Hill Tracts, Sylhet, and Mymensingh (SSL).
- 2127 **\*v U** Saunders, Jeffery J. 1982. Evolution of the Mammutoidea, Proboscidea: evidence and mode. 3rd North American Paleontological Convention, Montreal, Que., Canada, Aug. 5-7, 1982. *J. Paleontol.*, 56(2 suppl.):23. (Includes Mammut americanum) (BC).
- 2128 **Ew W** Sayer, Jeffrey. 1983. Nature conservation priorities in Laos. *Tigerpaper*, 10(3):10-14. Author discusses his findings during six weeks in 1983 when he surveyed Laos on behalf of FAO Regional Office for Asia and the Pacific (Food and Agriculture Organization of the United Nations) to assist in starting a nature conservation and national parks program. Elephants occur in Vientiane Province and Sayabouri Province near the Mekong River. Domesticated elephants are used in Sayabouri (500 in timber industry) and in Champassak in the south and in Vientiane and Luang Prabang Provinces. The author states that Olivier's 1978 figure of 932 for the captive elephant population "would seem to be of the right order of magnitude." (SSL).
- 2129 **Ud C** Schaller, K. 1983. A case of rhododendron poisoning in circus elephants. *Kleint. Praxis*, 28(1):53-56. (In German, English summary).
- 2130 **UprC** Schefels, W. 1982. Andrologic studies in zoo animals. 7th Joint Meeting of the German Veterinary Medical Society, Symposium on Physiology and Pathology of Reproduction, Giessen, West Germany, Feb. 18-20, 1982. *Zuchthygiene (Ber)*, 17(3):132. (In German) (BC).
- 2131 **Bm U** Schmidt-Nielsen, Knut. 1984. Scaling: Why is animal size so important? Cambridge University Press, New York, 241 pp. Elephants on pages 43, 45, 57, 120, 122 and 140 (E/JS).
- 2132 **BnpC** Schryver, H.F., T.J. Foote, J. Williams, and H.F. Hintz. 1983. Calcium excretion in feces of ungulates. *Comp. Biochem. Physiol. A. (Comp. Physiol.)*, 74(2):375-380. "...the non-ruminant ungulate equids, tapirs, rhinoceros and elephants absorb a larger proportion of dietary Ca than ruminants do." (E/FDR).



- 2133 **Bc W** Seidensticker, John. 1984. Managing elephant depredation in agricultural and forestry projects. The World Bank, 33 pp.
- 2134 **LbqC** Sever, Zvy. 1982. An unusual method of feeding behavior in captive African elephants. *Elephant*, 2(1):140-143.
- 2135 **EbrU** Sharma, R., and R.V. Krishnamurthy. 1984. Behavior of a neonate elephant (*Elephas maximus*). *Appl. Anim. Behav. Sci.*, 13(1-2):157-161.
- 2136 **LqtC** Sharp, Tony. 1983. Training and management of African elephants at the Oakland Zoo. Pp. 29-34, in *Proceedings of the Fourth Annual Elephant Workshop held at Kansas City, Missouri, October 14-16, 1983*, 121 pp.
- 2137 **\*a U** Sher, A. V., and V. E. Garutt. 1985. On the method of identification of molars (*sic*) generations in (*sic*, "extinct" was omitted in the translation) elephants. Pp. 93-103, in *Mammals of northern Eurasia during Quaternary* (N. K. Vereshchagin and I. E. Kuzmina, eds.). *Proceedings of the Zoological Institute, USSR Academy of Sciences, Leningrad*. Vol. 131, 1-124 pp. and 18 plates. (In Russian, English summary).
- 2138 **\*v U** Shi, Ronglin. 1983. Fossils of *Palaeoloxodon naumanni* from Zhucheng, Linyi and Yixian, Shandong. *Vert. Palasiatica*, 21(2):129-133. (In Chinese, English summary).
- 2139 **LaeW** Shipman, Pat 1981. Life history of a fossil: an introduction to taphonomy and paleoecology. Harvard University Press, Cambridge, Massachusetts, 222 pp.  
African elephants and other proboscideans are some of the many animals given as examples; see pages 4, 8, 24 and 151. Good introduction to the subjects; Glossary and References are included (JS).
- 2140 **\*aeW** Shipman, Pat, and Jennie J. Rose. 1983. Evidence of butchery and hominid activities at Torralba and Ambrona; an evaluation using microscopic techniques. *J. Archaeol. Sci.*, 10(5):465-474.
- 2141 **\*huU** Shipman, Pat, Daniel C. Fisher and Jennie J. Rose. 1984. Mastodon butchery: Microscopic evidence of carcass processing and bone tool use. *Paleobiology*, 10(3):358-365.  
Scanning electron microscope examination of bone surfaces was used to identify features of butchery (SSL).
- 2142 **LewW** Short, J.C. 1983. Density and seasonal movements of forest elephant (*Loxodonta africana cyclotis*, Matchie) in Bia National Park, Ghana. *African J. Ecol.*, 21(3):175-184.  
Using dropping counts the author concluded that "High densities appeared to be related to the local availability of ripe fruit of favored tree species." (E/BC).
- 2143 **LbzW** Shorter, Clare (compiler). 1982. Horizons: elephants mourn the death of a calf at Treetops. *Swara*, 5(4):20.
- 2144 **LcbW** Shorter, Clare (compiler). 1982. Horizons: Rwenzori National Park, Uganda. *Swara*, 5(3):21.  
Elephants are returning in large and easily frightened herds, many from Zaire (SSL).



- 2145 **LbnW** Shorter, Clare (compiler). 1982. Horizons: Where do we keep the salt? *Swara*, 5(3):19.  
Bull elephants raid salt stores at Treetops in Kenya. (SSL).
- 2146 **+g B** Shoshani, Jeheskel. 1982. A review of "Elephants: the vanishing giants" by Dan Freeman. *Elephant*, 2(1):151-153.
- 2147 **+vaB** Shoshani, Jeheskel. 1986. Mammalian phylogeny: comparison of morphological and molecular results. *J. Mol. Bio. Evol.*, 3(3):222-242.  
Proboscidea is a sister-group to Sirenia and Desmostylia (extinct); the latter ones are closer to each other than either of them is to Proboscidea (JLP). See, however, Reference Nos. 1928 and 2170.
- 2148 **Eg B** Shoshani, Jeheskel. and John F. Eisenberg. 1982. Elephas maximus. *Mammalian Species*, 182:1-8.
- 2149 **+voB** Shoshani, Jeheskel. Daniel A. Walz, Morris Goodman, Jerold M. Lowenstein, and William Prychodko. 1985. Protein and anatomical evidence of the phylogenetic position of Mammuthus primigenius within the Elephantidae. *Acta Zool. Fennica*, 170:237-240.
- 2150 **+voB** Shoshani, Jeheskel. Jerold M. Lowenstein, Daniel A. Walz, and Morris Goodman. 1985. Proboscidean origins of mastodon and woolly mammoth demonstrated immunologically. *Paleobiology*, 11(4):429-437. See Reference No. 2047.
- 2151 **EadC** Shoshani, Jeheskel et al. 1982. On the dissection of a female Asian elephant (Elephas maximus maximus Linnaeus, 1758) and data from other elephants. *Elephant*, 2(1):3-93.  
Only the senior author has been credited because it is impractical to list all 76 co-authors on this paper; see \* in the list of participants, Appendix I, page 77 (BC).
- 2152 **\*huU** Simon, Cheryl. 1983. Bloody end for mastodons? *Science News*, 124(20):312.  
Report on work by Daniel Fisher and Paul L. Koch in determining the time of death of mastodons, as given at the annual meeting of the Geological Society of America (SSL). See Reference Nos. 1940 - 1942.
- 2153 **Le W** Sinclair, A.R.E. 1983. The adaptations of African ungulates and their effects on community function. Pp. 401-426, in *Ecosystems of the World, Vol. 13, Tropical Savannas*, (F. Bourliere, ed.). Elsevier Scientific Publishing Co., New York, xii + 730 pp. (BC).
- 2154 **Lc W** Skinner, J.D. 1983. Letters: the Knysna elephants. *Afr. Wildl.*, 37(1):54. Response to an editorial in *Afr. Wildl.*, 36(6). See Reference Nos. 1968 and 2029.
- 2155 **BspC** Smith, T.P., K.G. Jollie, and J.L. Mohr. 1982. Gut protozoans of zoo elephants. 35th Annual Meeting of the Society of Protozoologists, San Francisco, Calif., U.S.A., Aug. 1-5, 1982. *J. Protozool.*, 29(3):482 (BC).
- 2156 **BvgB** Sondaar, P. 1986. The island sweepstakes. *Natural History*, 95(9):50-57.

- 2157 **BhgB** South, Malcolm (ed.). 1981. Topsell's histories of beasts. Nelson-Hall, Chicago, 185 pp.  
Pages 86-97, The elephant. From Edward Topsell's original manuscript of the early 17th century (BC).
- 2158 **BiyB** Spinage, Clive A. 1982. Synthetic ivory - a fictile notion? *Elephant*, 2(1):162-163.
- 2159 **\*v U** Stallard, Margaret. 1984. Ice age "Fantasy Island." *Lapidary Journal*, July:614-616.  
Frank Garcia's remarkable paleontological discovery of an Irvingtonian site in Florida (NES).
- 2160 **LihW** Stiles, Daniel. 1984. Book review: Ivory Crisis by Ian Parker and Mohammed Amin. *Swara*, 7(1):37.  
"Few people would even contemplate assaulting such bastions of conservation as IUCN and WWF (attack the pandas?), and most would consider defending elephant hunters, ivory buyers and workers as a conservationist suicide mission .... The ultimate solution to saving the African elephant and other wildlife is the establishment of a stable and economically secure Africa where poaching is no longer necessary..." (E/JS). See Reference No. 2098.
- 2161 **BicB** Stiles, Daniel. 1985. Book review of "The Japanese Ivory Industry" by Esmond Bradley Martin. *Swara*, 8(4):16. See Reference No. 2062.
- 2162 **Bq C** Stinson, Joanie. 1983. Creating an environment for the captive elephant. Pp. 25-28, in *Proceedings of the Fourth Annual Elephant Workshop held at Kansas City, Missouri, October 14-16, 1983*, 121 pp.
- 2163 **LrnC** Styles, T.E. 1982. Birth and early development of an African elephant *Loxodonta africana* at the Metro Toronto Zoo, Canada. *International Zoo Yearbook*, 22:215-217 (BC).
- 2164 **\*veU** Sutcliffe, Antony J. 1985. On the track of Ice Age mammals. Harvard University Press, Cambridge, 224 pp.  
Publication with a multi-disciplinary approach; special emphasis in chapters on the British Isles and Australia, as well as the New World (SSL).
- 2165 **Lq C** Svoboda, Melissa. 1983. Renovation of Kansas City Zoo's elephant facilities. Pp. 86-88, in *Proceedings of the Fourth Annual Elephant Workshop held at Kansas City, Missouri, October 14-16, 1983*, 121 pp.
- 2166 **ErgC** Sweeney, Lucille. 1985. Breeding the Asian elephant at the Houston Zoo. Typescript added to the *Proceedings of the Fifth Annual Elephant Workshop, New Orleans, Louisiana, November 29 - December 1, 1984*, 9 pp.
- 2167 **\*vaU** Szabo, B.J. 1982. Uranium series dis-equilibrium data for tooth fragments from the fossil hominid site at Ternifine Algeria. *S. Afr. J. Sci.*, 78(5):205 (BC).
- 2168 **\*v U** Taruno, Hiroyuki, T. Hayasi, and S. Tsuji. 1983. Discovery of the fossil molar of *Stegodon akashiensis* in the Kobiwako group at Katata Hills, Shiga prefecture, Japan. *Shizenshi-Kenkyu Occas. Pap. Osaka Mus. Nat. Hist.*, 1(16):155-158.  
"The discovery of this specimen of *Stegodon akashiensis* is the 1st example which is yielded in the upper part of the

Elephas shigensis zone after Kamei and Setoguchi (1970)."  
(E/BC).

- 2169 \*v U Taruno, Hiroyuki. 1982. Stegodon akashiensis (Taki) from Senriyama Hills, Osaka prefecture. Bull. Osaka Mus. Nat. Hist., 36:11-13 + 4 pls. (In Japanese, English summary).
- 2170 \*avU Tassy, Pascal. 1981. Le crane de Moeritherium (Proboscidea, Mammalia) de l'Eocene de Dor el Talha (Libye) et le probleme de la Classification phylogenetique du genre dans les Tethytheria McKenna, 1975. Bull. Mus. natn. Hist. Nat., Paris, (4), 3, C,1:87 - 147.  
"...cladistic analysis of the characters of the skull shows that the genus Moeritherium is more related to elephants than to any other living subungulate group." Fig. 13 (p. 118) depicts Proboscidea and Sirenia closer to each other than either is to Desmostylia (extinct). See, however, Reference Nos. 1928 and 2147 (E/JS).
- 2171 \*vaU Tassy, Pascal. 1982. Les principales dichotomies dans l'histoire des Proboscidea (Mammalia): une approche phylogenetique. Geobios, Memoire Special No. 6:225 - 245, 8 fig., 2 tabl.  
"Relationships between the main monophyletic fossil groups of Proboscidea are discussed from a phylogenetic basis." (E/JS).
- 2172 \*vaU Tassy, Pascal. 1983. Miocene Elephantoida from the Potwar Plateau, Siwalik group, Pakistan. I: Introduction geographical and chronological setting mammutids and amebelodonts. Ann. Paleontol., 69(2):99-136. (BC).
- 2173 \*vaU Tassy, Pascal. 1983. Les Elephantoida Miocenes du plateau du Potwar, Groupe de Siwalik, Pakistan. II: Choerolophodontes et Gomphotheres. Ann. Paleontol., 69(3):235-297 + 6 pls.
- 2174 \*v Tassy, Pascal. 1983. Les Elephantoida Miocenes du plateau du Potwar, groupe de Siwalik, Pakistan. III: Stegodontides, Elephantoides indetermines. Restes postcraniens. Conclusions. Ann. Paleontol., 69(4):317-354.
- 2175 \*vaU Tassy, Pascal. 1985. The place (= phylogenetic position) of the Old World Miocene mastodons in the phylogeny of the Proboscidea (Mammalia): hypothesis and conjectures. Mem. Sc. Terre Univ. Curie, Paris, No. 85 - 34. Tome 1 - 2:xii + 862 pp.; Tome 3:302 fig. (In French).  
This 3-volume monograph not only thoroughly covers what is in the title, but it is a compendium of proboscidean morphology, systematics, and classification (JS).
- 2176 \*vaU Tassy, Pascal, and Martin Pickford 1983. A new zygodont mastodon: Proboscidea, Mammalia in the early Miocene of East Africa, systematics and paleoenvironment. Geobios (Lyon), 16(1):53-77. (In French).  
"The earliest known African Neogene Elephantoida is described."  
"A new genus is erected for the species: Eozygodon morotoensis (Pickford and Tassy gen. et comb. Nov. Zygodontodon morotoensis). This taxon is the sister group of other Mammutidae." (E/BC).

- 2177 **LiuW** Taylor, Zack. 1981. W.D.M. Bell of Africa. Sports Afield, 185(April):124-125, 164, 166.  
An account of the legendary elephant hunter who is purported to have killed 1,000 bulls during his five years of hunting (1902-1907). It is said that he often killed ten bulls a day and in one day killed nineteen. In the short time of five years he made enough money from ivory to retire as a wealthy estate owner in Scotland (JLP).
- 2178 **\*v U** Thenius, E. 1982. A pongid (Primates, Pongidae) from the Pannonian late Miocene of Lower Austria. Folia Primatol., 39(3-4):187-200. (In German, English summary.)  
Includes: Gomphotherium (Tetralophodon) longirostre and Dinotherium giganteum (BC).
- 2179 **EggC** Thomas, Patrick B., and James K. McIntyre. 1983. The management of Elephas maximus at the Bronx Zoo's Wild Asia Exhibit. Pp. 43-55, in Proceedings of the Fourth Annual Elephant Workshop held at Kansas City, Missouri, October 14 - 16, 1983, 121 pp.
- 2180 **LeiW** Thorbahn, Peter F. 1984. Br'er elephant and the brier patch. Natur. Hist., 93(4):70-74, 75 and 78.  
"A thornbush wilderness in East Africa may have been created by prehistoric bands of ivory hunters." Using archaeological excavation, ethnohistorical data and computer simulation, the author found evidence that hunter-gatherers in East Africa may have become involved in the ivory trade around the fifteenth century. Overhunting of the elephants may have released the grassland to encroachment of bush which dominated the area until this century (SSL).
- 2181 **LbpW** Thornycroft, Caroline. March-April 1982. Elephants in record swim across Lake Kariba. Africa Calls, Zimbabwe Tourist Board, Salisbury, Zimbabwe, pp. 8-11.  
Two bull elephants of about 18 years in age spent approximately 30 hours swimming across Lake Kariba, a minimum of 35 km. During the latter part of the crossing, the elephants were observed and photographed assisting one another by the front elephant "...inflating its lungs for buoyancy while the other placed his front feet on the leader's back and paddled. Every hour or forty-five minutes the exhausted animals would change places." (E/SSL). See also "Swimming Marathon" under ELEPHANT NOTES AND NEWS in this issue [Elephant, 2(2)].
- 2182 **Ej W** Thorsell, James W. 1984. A management planning strategy for Khao Yai National Park, Thailand. Tigerpaper, 11(2):19-26.  
"For several kms around the park headquarters the area is quite well protected and contains good populations of ... elephant Elephas maximus which are seen occasionally by visitors.
- 2183 **\*wvU** Thorson, Robert M., E. James Dixon, Jr., George S. Smith, and Alan R. Batten. 1981. Interstadial proboscidean from south-central Alaska: implications for biogeography, geology, and archeology. Quaternary Research, 16(3):404-417.

- 2184 **EgbC** Throp, Jack L. 1984. The empress. *Anim. Kingdom*, 87(1):44-45.  
About elephants at the Honolulu Zoo (BC).
- 2185 **\*v U** Tobien, Heinz. 1980. A note on the skull and mandible of a new choerolophodont mastodont (Proboscidea, Mammalia) from Middle Miocene of Chios (Aegean Sea, Greece). Pp. 299-307, in *Aspects of vertebrate history* (L.L. Jacobs, ed.). Mus. Northern Arizona Press, Flagstaff, 407 pp.
- 2186 **\*v U** Tobien, Heinz. 1980. Taxonomic status of some Cenozoic mammalian local faunas from the Mainz Basin. *Mainzer Geowiss. Mitt.*, 9:203-235.
- 2187 **Eh B** Trautmann, Thomas R. 1982. Elephants and the Mauryas. Pp. 254-281, in *India: history and thought: Essays in honor of A.L. Basham* (S.N. Mukherjee, ed.). Subarnarekha, Calcutta, 331 pp. Material on the distribution of elephants in India in ancient times (JGE).
- 2188 **BghB** Tremain, Ruthven. 1982. The animals' who's who. Charles Scribner's Sons, New York, xv + 335 pp.  
Biographies of over 1,000 animals of renown from diverse areas of life and letters, 19 elephants including: Babar, Bandoola, Dali, Dumbo, Hathi, Jumbo (1), Jumbo (2), Kala Nag, Lucy, and Nalagiri (SS1).
- 2189 **+avB** Valente, A. 1983. Hair structure of the woolly mammoth, *Mammuthus primigenius* and the modern elephants, *Elephas maximus* and *Loxodonta africana*. *J. Zool., London*, 199(2):271-274.  
"In general there is little variation between the three species in the gross structure of the overhairs." (E/JS).
- 2190 **Lo C** Van de Weghe, A., A. Van Zeveren, and Y. Bouquet. 1982. The vitamin D binding protein in domestic animals. *Comp. Biochem. Physiol. B (Comp. Biochem.)*, 73(4):977-982.  
Includes elephant, nine mammalian families, and three bird families. "Large differences in allele frequencies of populations of some domestic species support polymorphism as a useful tool in ethnography based on the analogy with human genetic population research." (E/BC).
- 2191 **Lp** Van Hoven, W., R. A. Prins, and A. Lankhort. 1981. Fermentative digestion in the African elephant. *S. Afr. J. Wildl. Res.*, 11:78-86.  
"...There is a microbial fermentation of sugars, starch and protein from the food in different compartments in the gastrointestinal tract, with most activity occurring in the caecum and colon." Length of intestinal tract including stomach and caecum, 27 m. Volume of intestinal tract + stomach + caecum = 555 + 60 liters. pH of stomach <2.0, other parts of intestinal tract pH = 6.52 to 7.78 (E/JS).
- 2192 **\*g U** Vereshchagin, Nicolai K. 1981. Notes of a paleontologist: On the tracks of our ancestors. "Nauka" Publishers, Leningrad, 168 pp.
- 2193 **\*geU** Vereshchagin, Nicolai K. 1982. New mammoth find in the Kolyma Yuribei Mountains, Russian-SFSR, USSR. *Vestn. Zool. (Kiev)*, 0(3):32-38. (In Russian, English summary).  
A female "at the age of 10-15 years was killed in late summer some 10,000 years ago." "A rich mass of wool, more than 50

- bones, fragments of muscles and fat, and intestines containing grassy mass remained preserved." (E/BC).
- 2194 \*v U Vereshchagin, Nicolai K., and A. I. Nikolaev. 1982. Excavation of the Khatanga mammoth remains. *Trudy Zool. Inst. Leningrad*, 111:3-17. (In Russian).
- 2195 \*ewU Vereshchagin, Nicolai K., and G. F. Baryshnikov. 1983. The ecological structure of the mammoth fauna of Eurasia.. *Zool. Zh.*, 62(8):1245-1251. (In Russian, English summary).
- 2196 \*v U Vereshchagin, Nicolai K., and G. F. Baryshnikov. 1985. Extinction of mammals during Quaternary in northern Eurasia. Pp. 3-38, in *Mammals of northern Eurasia during Quaternary* (N.K. Vereshchagin and I.E. Kuzmina, eds.). Proceedings of the Zoological Institute, USSR Academy of Sciences, Leningrad, Vol. 131, 124 pp. and 18 plates. (In Russian, English summary).
- 2197 \*v U Vereshchagin, Nicolai K., and V. V. Ukraintseva. 1985. The origin and stratigraphy of Berelyokh mammoth "burial ground." Pp. 104-113, in *Mammals of northern Eurasia during Quaternary* (N.K. Vereshchagin and I.E. Kuzmina, eds.). Proceedings of the Zoological Institute, USSR Academy of Sciences, Leningrad, Vol. 131, 124 pp. and 18 plates. (In Russian, English summary).
- 2198 LwcW Viljoen, Philip J. 1982. The distribution and population of the larger mammals in Kaokoland, South West Africa/Namibia. *Cimbebasia*, ser. A, 7(5):5-33.  
"Based on aerial and ground surveys 36 species, including *Loxodonta africana*, were identified." The environment and animals should be regarded with the highest conservation priority (E/FDR). See Reference Nos. 2092 and 2199.
- 2199 LjmW Viljoen, Philip J. 1982. The ecology of the desert-dwelling elephants, black rhinoceroses and giraffes of western Kaokoland and Damaraland, South-West Africa: a progress report. *Quagga*, 2:14-15.  
The subtitle is more appropriate than the main title, for this is a short progress report rather than an article on "The ecology...". "...active research is concentrated on the elephant population, but data is gathered on both giraffe and black rhinoceros populations as these animals are encountered. At the time of writing there were 70 elephants (of which only 7 were bulls; 32 elephants had died, of which 30 were shot illegally; the giraffes' number remained stable." 6 rhinos are known to have been shot and 4 previously unknown rhinos have been encountered (JS). See Reference No. 2198.
- 2200 Eo C Vinogradov, S.N., T.F. Kosinski, and B. Zak. 1982. Complexometric determination of iron in heme proteins with 4-2 pyridylazo resorcinol. *Anal. Biochem.*, 120(1):111-112 (BC).
- 2201 BqrC Wait, Peter. 1983. The management of elephants, and experiences at Chester Zoo. Pp. 30-33, in *Management of pachyderms* (Jon Barzdo, ed.). Proceedings of Symposium 7 of the Assoc. of British Wild Animal Keepers, Bristol, 48 pp.



- 2202 **LhcW** Walker, Clive. 1982. Desert dwellers. *Elephant*, 2(1):135-139.
- 2203 **Lg W** Walker, Clive. 1982. Twilight of the giants. Sable Publishers Ltd., Sloane Park, Repub. of So. Afr., xvii + 208 pp.  
Thirty-seven color photographs and approximately 200 black and white photographs by author of animals and man across South Africa as progress "has begun to do away with the creatures with whom he shared it" (SSL).
- 2204 **BctC** Wallace, Kathy, and Morna Holden. 1985. The growth and development of an elephant program at the National Zoo. Pp. 61-65, in *Proceedings of the Fifth Annual Elephant Workshop*, New Orleans, LA, November 29 - December 1, 1984, 113 pp.
- 2205 **BrzB** Wallace, Robert A. 1980. How they do it. William Morrow and Co., Inc., New York, 172 pp.  
The chapter on elephants (pages 56-59) includes a number of statements drawn from sources not mentioned in the "Selected Source Material" or from the author's vivid imagination. For example: "He (the male elephant) also spends a lot of time sniffing her toe nails, for some reason. Who are we to say what is sexy for elephants?" I found such quotations plus descriptions to be inaccurate, misleading and generally anthropomorphic, despite the fact that the author makes it clear in the introductory chapter that he permits himself to anthropomorphize sometimes, "just for the fun" (JS).
- 2206 **epW** Weaver, J.C. 1983. The improbable endotherm: the energetics of the sauropod dinosaur *Brachiosaurus*. *Paleobiology*, 9(2):173-182.  
"Calculations on the daily caloric requirements of the sauropod *Brachiosaurus*, adjusted for digestibility and the energetic cost of free-living, were compared with caloric density of Late Jurassic food plants and the feeding rates of an elephant and a giraffe." (E/BC).
- 2207 **EbpC** Wemmer, Chris, and Hemanta R. Mishra. 1982. Observational learning by an Asiatic elephant of an unusual sound production method. *Mammalia*, 46(4):566-577.
- 2208 **Uz** Wernick, Robert. 1984. A lovable elephant that youngsters never ever forget. *Smithsonian*, 15(4):90-96.  
About exhibit "Fifty Years of Babar."
- 2209 **\*v U** West, Robert M. 1983. South Asian Eocene moeritheres (Mammalia, Tethytheria). *Ann. Carnegie Mus.*, 52(16):359-373 (BC).
- 2210 **LljW** Western, David, Cynthia Moss, and Nicholas Georgiadis. 1983. Age estimation and population age structure of elephants from footprint dimensions. *J. Wildl. Mgmt.*, 47(4):1192-1197.
- 2211 **Lc W** Western, David. 1983. African Elephant and Rhino Specialist Group (AERSG). *Swara*, 6(4):22-23. (Extracts from the first report on the newly combined Species Survival Commission groups.)
- 2212 **LcmW** Western, David. May/June 1985. Monitoring Africa's megafauna. *Animal Kingdom*, 88(3):30-35.  
"A Kenyan ecologist updates the conservation picture for elephants and rhinos." (E/SSL).

- 2213 **LcwW** Western, David. 1986. An African odyssey to save the elephant. *Discover*, 7(10):56-58, 60, 62, 64, 66, 68-70.  
"In a daredevil junket to determine how many of the pachyderms remain hidden in the rain forest, the author solves an old mystery and produces a bold survival plan." (E/JS).
- 2214 **LopW** Wheeler, J.W., Lois E. Rasmussen, F. Ayorinde, Irven O. Buss, and G. L. Smuts. 1982. Constituents of temporal gland secretion of the African elephant, Loxodonta africana. *J. Chem. Ecol.*, 8(5):821-835.  
The five volatile components of temporal gland secretion include: phenol, cresol, farnesol, farnesol hydrate, and farnesol dihydrate. E-farnesol, farnesol hydrate and farnesol dihydrate represent the first such chemicals isolated from mammals. The authors suggest that farnesol hydrate "is involved in scent marking by adult male African elephants" and "variation in cresol aids in helping recognize individuals." (JS).
- 2215 **\*g U** White, William. 1982. Forum: Mammoth update: a reply to Ellenberger. *Kronos*, 7(4):62-66. See Reference Nos. 1899, 1932, and 1933.
- 2216 **\*e U** Whitehead, Donald R., S.T. Jackson, M.C. Sheehan, and B.W. Leyden. 1982. Late glacial vegetation associated with caribou and mastodon in central Indiana. *Quaternary Research*, 17(2):241-257.  
"Recent reconstructions of late-glacial and early post glacial vegetational changes provide a context for understanding the disappearance of mastodons. The dramatic and rapid restriction of boreal forests along the retreating ice margin from 11,000-9,000 years B.C. may have caused a substantial reduction of mastodon populations." (E/SSL).
- 2217 **\*haU** Wolsan, M. 1982. A comparative analysis of the ribs of ungulates for archaeozoological purposes. *Acta. Zool. Cracov.*, 26(1):167-228.  
Ribs of Mammuthus primigenius were compared to those of ungulate species (E/BC).
- 2218 **Ld W** Woodford, M. H. 1982. Tuberculosis in wildlife in the Ruwenzori National Park, Uganda 2. *Trop. Anim. Health Prod.*, 14(3):155-160.  
"None of the mammals (except possibly 1 elephant), birds, fish or amphibia were infected with Mycobacterium bovis..." (E/BC).
- 2219 **Lp W** Wright, P.G. 1984. Why do elephants flap their ears? *S. Afr. J. Zool.*, 19(4):266-269.
- 2220 **Lp W** Wright, P.G., and C.P. Luck. 1984. Do elephants need to sweat? *S. Afr. J. Zool.*, 19(4):270-274.
- 2221 **LdiC** Wyatt, Jeffrey D. 1985. The medical and surgical management of bilateral tusk pulp infections in an African elephant. Pp. 21-25, in *Proceedings of the Fifth Annual Elephant Workshop*, New Orleans, Louisiana, November 29 - December 1, 1984, 113 pp.

- 2222 ~~BwC~~ Yaotjing, Gao. 1981. On the present status, historical distribution and conservation of wild elephant in China. *Acta Theriologica Sinica*, 1(1):19-26. (Abstract in English). Today, the Asian elephant is confined to the southern border of Yunnan province and is considered endangered (E/SSL).
- 2223 BmhC Yonetani, Kako. 1984. Captive elephants in Japan: Census and history. Part I. *Animal Keepers' Forum*, 11(6):177-189. (See also *Elephant*, 2(2).)
- 2224 BmhC Yonetani, Kako. 1984. Captive elephants in Japan: Census and history. Part II. *Animal Keepers' Forum*, 11(7):211-217. (See also *Elephant*, 2(2).)
- 2225 \*veU Yoshiaki, M. 1982. Molluscan fauna from the middle and upper parts of the Ashigara group. *Mem. Natl. Sci. Mus. (Tokyo)*, 0(15):53-62. (In Japanese, English summary). The presence of the proboscidean Parastegodon sp. and Umbonium costatum indicated that the geologic age of the Ashigara group may be Early to Middle Pleistocene (E/BC).
- 2226 Eo C Yu, N.T., E.A. Kerr, D.E. Bartnicki, H. Mizukami, and A.E. Romero-Herrera. 1982. Resonance raman studies on carbon monoxide and oxygen binding to elephant myoglobin. 26th Annual Meeting of the Biophysical Society, Boston, Mass., U.S.A. Feb. 14-17, 1982. *Biophys. J.*, 37(2 part 2):174A (BC). See Reference No. 2119.
- 2227 \*v U Zhang, Yuping, and G. Zong. 1983. Genus Palaeoloxodon of China. *Vert. PalAsiatica*, 21(4):304-312. (In Chinese, English summary).
- 2228 \*v U Zhang, Yuping, et al. 1983. A new species of Paleoloxodon from Pingliang, Kansu. *Vert. PalAsiatica*, 21(1):64-68. (In Chinese, English summary). (sp. nov. Paleoloxodon lingliangensis).
- 2229 \* U Zhou, Mingzhen, and Yuping Zhang. 1983. Occurrence of the proboscidean genus Stregotetrabelodon in China. *Vert. PalAsiatica*, 21(1):52-58. (In Chinese, English summary) (gen. nov. Rulengchia).