



Bibliography: Covering the 3 Courses of the Ethology Series

Adamson, J. 1969. The Spotted Sphinx. New York: Harcourt Brace Jovanovich.

----- 1972. Pippa's Challenge. London: Collins.

Aeschlimann, A. 1963. Observations *surphilantomba maxwelli* (Hamilton-Smith) une antilope de la forêt Tburnde. Acta Tropica 20:

Aldrich-Blake, F. P. G. 1970. Problems of social structure in forest monkeys. In Social Behavior in Birds and Mammals, ed. J. H. Crook, New York: Academic Press.

Alexander, A. J., and R. E. Ewer 1959 Observations on the biology and behavior of the smaller African polecat. Afr. Wildlife 13:

Allen, J. A. 1925. Primates collected by the American Museum Congo expedition. Bull. Amer. Mus. Nat. Hist. 47:

Allen, L. D. C. 1963. The lechwe (*Kobus leche smithemani*) of the Bangweulu swamps. Puku

Allsopp, R. 1971. Seasonal breeding in bushbuck, *Tragelaphus scriptus*. E. Afr. Wildl. J. 9:

Altmann, D. 1969. Harnen und Koten bei Säugetieren. Neue Brehm-Bücherei. Wittenberg Lutherstadt: A. Ziemsen Verlag.

----- 1971. Zur Geburt beim Buntbock, *Damaliscus dorcas dorcas*. Zool. Gart. 40:

Altmann, J. 1980. Baboon Mothers and Infants. Cambridge: Harvard Univ. Press.

Altmann, S. A., and J. Altmann 1970. Baboon Ecology. Chicago: Univ. of Chicago Press.

Anderson, A. B. 1969. Communication in the lesser bushbaby *Galago senegalensis moholi*. M. Sc. thesis, Univ. of Witwatersrand.

Anderson, J. L. 1972. Seasonal changes in the social organization and distribution of the impala in Hluhluwe Game Reserve, Zululand. J. S. Afr. Wildl. Mgmt. Assn. 2:

----- 1978. Aspects of the ecology of the nyala (*Tragelaphus angasi* Gray 1849) in Zululand. Ph.D. thesis, Univ. of London.

----- 1979. Reproductive seasonality of the nyala (*Tragelaphus angasi*): the interaction of light, vegetation phenology, feeding style and reproductive physiology. Mammal Rev. 9:

----- 1980. The social organization and aspects of behavior of the nyala (*Tragelaphus angasi* Gray). Z. Säugetierk. 45:

----- 1985. Condition and related mortality of nyala *Tragelaphus angasi* in Zululand, South Africa. J. Zool., Lond. (A) 207:

Anderson, S., and J. K. Jones 1967. Recent Mammals of the World. New York: Ronald Press.

Andrew, R. J. 1963. The origin and evolution of the calls and facial expressions of the primates. Behaviour 20:

Andrew, R. J., and R. P. Klopman 1974. Urine washing: Comparative notes. In Martin et al. 1974.

Ansell, W. F. H. 1960a. The breeding of some larger mammals in Northern Rhodesia. Proc. Zool. Soc. Lond. 134:

----- 1960b. Contribution to the mammalogy of Northern Rhodesia. Occ. Papers Nat. Mus. S. Rhodesia No. 24B.

- 1960c. The African striped weasel, *Poecilogale albinucha* (Gray). Proc. Zool. Soc. Lond. 134:
- 1963. Additional breeding data on Northern Rhodesian mammals. Puku 1:
- 1964. The preorbital, pedal and preputial glands of *Raphicerus sharpei* Thomas, with a note on the mammae of *Ourebia ourebi* Zimmerman. Arnoldia 18:
- 1969. *Oreotragus oreotragus centralis*. In Addenda and Corrigenda to Mammals of Northern Rhodesia, No. 3. Puku 5:
- 1971. Order Artiodactyla. In The Mammals of Africa, an Identification Manual, ed. J. Meester and H. W. Setzer, Part 15. Washington, D.C.: Smithsonian Institution.
- Anthony, T. R. 1968. The ontogeny of greeting, grooming and sexual motor patterns in captive baboons (supersp. *Papio cynocephalus*). Behaviour 31:
- Antonius, O. 1951 Die Tigerpferde. Frankfurt am Main: P. Schops.
- Arcese, P., and G. Jongejan 1990. Cooperative territory defence and a novel ungulate social system in the oribi. Gnusletter 9(2): (abstract).
- Arden-Clarke, C. H. G. 1986. Population density, home range size and spatial organization of the Cape clawless otter, *Aonyx capensis*, in a marine habitat. J. Zool., Lond. (A) 209:
- Asdell, S. A. 1946. Patterns of Mammalian Reproduction. Ithaca, N.Y.: Cornell Univ. Press.
- 1955. Endocrine organs, reproduction, and growth. In The Physiology of Domestic Animals, ed. H. H. Dukes. Ithaca, N.Y.: Cornell Univ. Press.
- Atwell, C. A. M. 1982. Population ecology of the blue wildebeest *Connochaetes taurinus taurinus* in Zululand, South Africa. Afr. Ecol. 20:
- Avery, G., D.M. Avery, S. Braine, R. Loutit 1987. Prey of coastal black-backed jackal *Canis mesomelas* (Mammalia, Canidae) in the Skeleton Coast Park, Namibia. I. Zool (Lond) 213:
- Backhaus, D. 1959a. Beobachtungen fiber das Freileben von Lelwel-Kuhantilopen (*Alcelaphus buselaphus lelwel* Heuglin, 1877) und Gelegenheitsbeobachtungen an der Senner-Pferdeantilope {*Hippotragus equinus bakeri* Heuglin, 1863}. Z. Siiugetierk. 24:
- 1959b. Experimentelle Prufung des Farbsehvermogens einer Masai-Giraffe. Z. Tierpsychol. 16:
- 1961. Beobachtungen an Giraffen im Zoologischen Garten und freier Wildbahn. Bruxelles: Ins. Parc. Nat. Congo Belge.
- Badrian, A., and N. Badrian 1984. Social organization of *Pan paniscus* in the Lomako Forest, Zaire. In The Pygmy Chimpanzee: Evolutionary Biology, ed. R. L. Susman. New York: Plenum Press.
- Baker, C. M. 1981. Agonistic behavior patterns of the slender mongoose, *Herpestes sanguineus*. S. Afr. J. Zool. 16:
- Barklow, W. 1995. My life with the hippos. *Natural History* .
- Bartholomew, G. A., and M. Rainy 1971. Regulation of body temperature in the rock hyrax, *Heterohyrax brucei*. J. Mamm. 52:
- Bartlett, J., and D. Bartlett 1967. Nature's Paradise. Boston: Houghton Mifflin.
- Bauchop, T. 1978. Digestion of leaves in vertebrate arboreal folivores. In The Ecology of Arboreal Folivores, ed. G. G. Montgomery. Washington, D.C.: Smithsonian Institution.
- Bearder, S. K. 1977. Feeding habits of spotted hyenas in a woodland habitat. E. Afr. Wildl. J. 15:
- Bearder, S. K. 1999. Physical and social diversity among nocturnal primates: A new view based on long term research. *Primates* 40:

- Bearder, S. K., and G. A. Doyle 1974. Ecology of bushbabies, *Galago senegalensis* and *Galago crassicaudatus*, with some notes on their behavior in the field. In Martin et al. 1974.
- Bearder, S. K., Honess, P. E., and Ambrose, L. 1995. Species diversity among galagos with special reference to mate recognition. In Alterman, L., Doyle, G. A., and Izard, M. K. (eds.), *Creatures of the Dark: the Nocturnal Prosimians*, Plenum Press, New York,
- Bekoff, M., J. Diamond, J. B. Mitton 1981. Life-history patterns and sociality in canids: body size, reproduction, and behavior. *Oecologia* (Berlin) 50:
- Bell, R. H. V. 1970. The use of the herb layer by grazing ungulates in the Serengeti. In *Animal Populations in Relation to Their Food Resources*, ed. A. Watson.
- 1971. A grazing ecosystem in the Serengeti. *Sci. Am.* 224:
- 1982. The effect of soil nutrient availability on community structure in African ecosystems. In *Ecology of Tropical Savannas*, ed. B. J. Huntley and B. J. Walker. New York: Springer-Verlag.
- Bell, R. H. V., J. J. R. Grimsdell, L. P. Van Lavieren, J. A. Sayer 1973. Census of the Kafue lechwe by aerial stratified sampling. *F. Afr. Wild. I.* 11:
- Ben-Shahar, R., and N. Fairall 1987. Comparison of the diurnal activity patterns of blue wildebeest and red hartebeest. *S. Afr. J. Wildl. Res.* 17:
- Ben-Yaacov, R., and Y. Yom-Tov 1983. On the biology of the Egyptian montgoose, *Herpestes ichneumon*, in Israel. *Z. Sliugetierk.* 48:
- Bere, R. 1966. *Wild Animals in an African National Park*. London: Andre Deutsch.
- Berg, I. A. 1944. Development of behavior: The micturition pattern in the dog. *J. Exp. Psychol.* 34:
- Berger, J. 1983. Induced abortion and social factors in wild horses. *Nature* 303:
- Bernard, R. T. F., and C. T. Stuart 1987. Reproduction of the caracal *Felis caracal* from the Cape Province of South Africa. *S. Afr. J. Zool.* 22:
- Bernstein, P., W. J. Smith, A. Krensky, K. Rosenle 1978. Tail positions of *Cercopithecus aethiops*. *Z. Tierpsychol.* 46:
- Berry, H. H. 1983. First catch your lion. Rossing. (Trade publication of Rossing Uranium Ltd., Windhoek, Namibia.)
- Berry, H. H., and G. N. Louw 1982. Seasonal nutritive status of wildebeest in the Etosha National Park. *Mado qua* 13:
- Berry, H. H., W. R. Siegfried, T. M. Crowe 1982. Activity patterns in a population of free-ranging wildebeest (*Connochaetes taurinus*) at Etosha National Park. *Z. Tierpsychol.* 59:
- Berry, P.S. M. 1993 The Luangwa Valley giraffe. *Puku* 7:
- Bertram, B. C. 1974. Radio-tracking leopards in the Serengeti. *Wildlife News* 9(2):
- 1976. *Studying Predators*, handbk. 3. Nairobi: African Wildlife Foundation.
- 1979. Serengeti predators and their social systems. In Sinclair and NortonGriffiths 1979.
- Best, G. A., and T. G. W. Best 1977. Rowland Ward's Records of Big Game 17th ed. (Africa). Sussex, Eng.: Rowland Ward.
- Beuerle, W. 1975. Freilanduntersuchungen zum Kampfund Sexualverhalten des europaischen Wildschweines *Sus scrofa* L. *Z. Tierpsychol.* 39:
- Bigalke, R. C. 1963a. A note on reproduction in the steenbok (*Raphicerus campestris* Thunberg). *Ann. Cape Prov. Mus.* 3:
- 1963b. The springbok *Antidorcas marsupialis* Zimm. *Trans. Interstate Antelope Conference.*

- 1970. Observations on springbok populations. *Zool. Afr.* 5:
- 1972. Observations on the behavior and feeding habits of the springbok, *Antidorcas marsupialis*. *Zool. Afr.* 7:
- Bigourdan, J., and R. Prunier 1937. Mammifères sauvages de l'Ouest africain et leur milieu. Montrouge (Paris): Jean de Rudder.
- Bishop, A. 1964. Use of the hand in lower primates. In *Evolutionary and Genetic Biology of Primates*, vol. 2, ed. J. Buettner-Janusch. New York: Academic Press.
- Blaine, G. 1922. Notes on the zebras and some antelopes of Angola. *Proc. Zool. Soc. Lond.*
- Blancou, L. 1958. The African buffalos. *Animal Kingdom* 61(2):
- Boesch, C. & Boesch-Achermann, H. 2000 *The chimpanzees of the Tai Forest: behavioral ecology and evolution*. Oxford University Press, Oxford.
- Boesch, C., and H. Boesch 1981. Sex differences in the use of natural hammers by wild chimpanzees: a preliminary report. *J. Hum. Evol.* 10:
- 1989. Hunting behavior of wild chimpanzees in the Tai National Park, Ivory Coast. *Am. J. Phys. Anthropol.* 78:
- 1990. Tool use and tool making in wild chimpanzees. *Folia Primatol.* 54:
- Bolwig, N. 1959. A study of the behavior of the chacma baboon, *Papio ursinus*. *Behaviour* 14:
- 1963. Observations on the mental and manipulative abilities of a baboon. *Behaviour* 22:
- Booth, A. H. 1957. Observations on the natural history of the olive colobus monkey, *Procolobus verus* (van Beneden). *Proc. Zool. Soc. Lond.* 129:
- Bothma, J. du P. 1971 Hyracoidea. In *The Mammals of Africa, an Identification Manual*, ed. J. Meester and H. W. Setzer, Part 12. Washington, D.C.: Smithsonian Institution.
- Bothma, J. du P., and J. A. J. Nel 1980. Winter food and foraging behavior of the aardwolf (*Proteles cristatus*) in the Namib-Naukluft Park. *Madoqua* 12:
- Bothma, J.D.P., and E.A.N. LeRiche 1986. Prey preference and hunting efficiency of the Kalahari Desert leopard. In S.D. Miller and D.D. Everitt (eds.), *Cats of the World: Biology, Conservation, and Management*. Washington, DC: National Wildlife Federation.
- Bourliere, F. 1985. Primate communities: their structure and role in tropical ecosystems. *Int. J. Primatol.* 6:
- Bourliere, F., and J. Verschuren, 1960. L'écologie des ongules du Parc National Albert. *Ins. Pares Nat. Congo Beige*, Brussels, 2 vols.
- Brain, C. K. 1965 a. Observations on the behavior of the vervet monkey, *Cercopithecus aethiops*. *Zool. Afr.* 1:
- 1965b. Adaptations to forest and savannah: some aspects of the social behavior of *Cercopithecus* monkeys in Southern Africa. *Primate Social Behaviour*, Suppl. 2-12
- Bramley, P.S., and W. B. Neaves 1972. The relationship between social status and reproductive activity in male impala *Aepyceros melampus*. *J. Reprod. Fertil.* 31:
- Brand, D. J. 1963. Records of mammals bred in the National Zoological Gardens of South Africa during the period 1908 to 1960. *Proc. Zool. Soc. Lond.* 140:
- Brooks, A. C. 1961. A study of Thomson's gazelle (*Gazella thomsonii* Guinther) in Tanganyika. Colonial Research Publications no. 25. London: H. M. Stationery Office. Brooks, P. M.
- 1975. The sexual structure of an impala population and its relationship to an intensive game removal program. *Lammergeyer* 22:

- Brown, C. H. 1982. Auditory localization and primate vocal behavior. In *Primate Communication*, ed. C. T. Snowdon, C. H. Brown, M. R. Petersen. Cambridge: Cambridge Univ. Press.
- Brown, C. H., and P.M. Waser 1984. Hearing and communication in blue monkeys (*Cercopithecus mitis*). *Anim. Behav.* 32:
- Brown, L. H. 1969. Observations on the status, habitat and behavior of the mountain nyala, *Tragelaphus buxtoni*, in Ethiopia. *Mammalia* 33:
- Buechner, H. K., J. A. Morrison, W. Leuthold 1966. Reproduction in Uganda kob with special reference to behavior. *Symp. Zool. Soc. Lond.* 15:
- Buechner, H. K., and H. D. Roth 1974. The lek system in Uganda kob with special reference to behavior. *Amer. Zool.* 14:
- Buechner, H. K., and R. K. Schloeth 1965. Ceremonial mating behavior in Uganda kob (*Adenota kob thomasi* Neumann). *Z. Tierpsychol.* 22:
- Bunderson, W. T. 1977. Hunter's antelope. *Oryx* 14:
- Buss, I. O., and J. A. Estes 1971. The functional significance of movements and positions of the pinnae of the African elephant, *Loxodonta africana*. *J. Mamm.* 52:
- Buss, I.O., L. E. Rasmussen, J. A. Smith 1976. The role of stress and individual recognition in the function of the African elephant's temporal gland. *Mammalia* 40:
- Buss, I. O., and N. R. Smith 1966. Observations on reproduction and breeding behavior of the African elephant. *J. Wild. Mgmt.* 39:
- Busse, C. D., and W. J. Hamilton 1981. Infant carrying by male chacma baboons. *Science* 212:
- Butynski, T. M. 1982. Harem male replacement and infanticide in the blue monkey (*Cercopithecus mitis stuhimanni*) in the Kibale Forest, Uganda. *Am. J. Primatol.* 3:
- Butynski, T. M. 2002. The guenons: an overview of diversity and taxonomy. In Glenn and Cords 2002..
- Bygott, J. D., B. C. Bertram, J. P. Hanby 1979. Male lions in coalitions gain reproductive advantages. *Nature* 282:
- Cade, C. E. 1966. A note on the mating behavior of the Kenya oribi *Ourebia ourebi* in captivity. *Int. Zoo Yb.* 6:
-----1967. Notes on breeding the Cape hunting dog, *Lycaon pictus*, at Nairobi Zoo. *Int. Zoo Yb.* 7:
- Carlisle, D. B., and L. I. Ghobrial 1968. Food and water requirement of dorcas gazelle in the Sudan. *Mammalia* 32:
- Caro, T. M., and D. A. Collins 1987a. Male cheetah social organization and territoriality. *Ethology* 74:
-----1987b. Ecological characteristics of territories of male cheetahs (*Acinonyx jubatus*). *J. Zool., Lond.* 211:
- Caro, T. M., C. D. FitzGibbon, M. E. Holt 1989. Physiological costs of behavioral strategies for male cheetahs. *Anim. Behav.* 38:
- Carpenter, G. P. 1970. Some observations on the rusty-spotted genet (*Genetta rubiginosa zulensis*). *Lammergeyer* 11:
- Carr, G. M., and D. W. Macdonald 1986. The sociality of solitary foragers: a model based on resource dispersion. *Anim. Behav.* 34:
- Carrington, R. 1958. *Elephants, a Short Account of Their Natural History, Evolution and Influence on Mankind*. Harmondsworth: Penguin Books.
- Casimir, M. J., and E. Butenandt 1973. Migration and core area shifting in relation to some ecological factors in a mountain gorilla group (*Gorilla gorilla beringei*) in the Mt. Kahuzi region (Rpublique du Zaire). *Z. Tierpsychol.* 33:

- Cave, A. H. E. 1966. The preputial glands of Ceratotherium. Mammalia 30:
- Chalmers, G. 1963. Breeding data: steinbok. E. Afr. Wildl. J. 1:
- Channing, A., and D. T. Rowe-Rowe 1977. Vocalizations of South African mustelids. Z. Tierpsychol. 44:
- Charles-Dominique, P. 1971. Eco-éthologie des prosimiens du Gabon. Biol. Gabonica 7:
- 1974. Ecology and feeding behavior of five sympatric lorises in Gabon. In Martin et al. 1974.
- 1977. Ecology and Behavior of Nocturnal Primates. New York: Columbia Univ. Press.
- 1978a. Ecology and social behavior of *Nandinia binotata*. Terre Vie 32:
- 1978b. Solitary and gregarious prosimians: evolution of social structures in primates. In Recent Advances in Primatology, ed. O. J. Chivers and K. A. Joysey, vol. 3. London: Academic Press.
- 1984. Bushbabies, lorises and pottos. In Macdonald 1984a
- Charles-Dominique, P., and S. K. Bearder 1979. Field studies of lorisid behavior: methodological aspects. In Doyle and Martin, 1979.
- Charles-Dominique, P., and R. D. Martin 1972. Behavior and ecology of nocturnal prosimians. Z. Tierpsychol., Suppl. 9:
- Cheney, D. L. 1983. Extrafamilial alliances among vervet monkeys. In Hinde 1983.
- Cheney, D. L., P. C. Lee, R. M. Seyfarth 1981. Behavioral correlates of non-random mortality among free-ranging vervet monkeys. Behav. Ecol. Sociobiol. 9:
- Cheney, D. L., and R. M. Seyfarth 1980. Vocal recognition in free-ranging vervet monkeys. Anita. Behav. 28:
- 1982. Recognition of individuals within and between free-ranging groups of vervet monkeys. Amer. Zoo. 22:
- 1983. Nonrandom dispersal in free-ranging vervet monkeys: social and genetic consequences. Am. Nat. 122:
- 1986. The recognition of social alliances by vervet monkeys. Anim. Behav. 34:
- Cheney, D. L., R. M. Seyfarth, S. J. Andelman, P. C. Lee 1988. Reproductive success in vervet monkeys. In Reproductive Success, ed. T. H. Clutton-Brock. Chicago: Univ. of Chicago Press.
- Child, G., and J. D. Le Riche 1969. Recent springbok treks (mass movements) in south-western Botswana. Mammalia 33:
- Child, G., and W. von Richter 1969. Observations on ecology and behavior of lechwe, puku and waterbuck along the Chobe River, Botswana. Z. Säugetierk. 34:
- Child, G., H. Robbel, C. P. Hepburn 1972. Observations on the biology of the tsessebe, *Damaliscus lunatus lunatus*, in northern Botswana. Mammalia 36:
- Child, G., and V. J. Wilson 1964. Observations on ecology and behavior of roan and sable in three tsetse control areas. Arnoldia 16:
- C. S. 1978. Giraffidae. In Maglio and Cooke 1978.
- 1981. Zebras (Genus Equus) from nine Quarternary sites in Kenya, East Africa. Can. J. Earth Sciences 18:
- Churcher, C. S., and M. L. Richardson 1978. Equidae. In Maglio and Cooke 1978.
- Clark, A. B. 1978a. Olfactory communication, *Galago crassicaudatus*, and the social life of prosimians. In Recent Advances in Primatology, ed. O. J. Chivers and K. Joysey, vol. 3. London: Academic Press.

- 1978b. Sex ratio and local resource competition in a prosimian primate. *Science* 201:
- 1985. Sociality in a nocturnal "solitary" prosimian: *Galago crassicaudatus*. *Int. J. Primatol.* 6:
- Clough, G. 1969. Some preliminary observations on reproduction in the warthog, *Phacochoerus aethiopicus* Pallas. *J. Reprod. Fertil., Suppl.* 6:
- Clough, G., and A. G. Hassam 1970. A quantitative study of the daily activity of the warthog in the Queen Elizabeth National Park, Uganda. *E. Afr. Wildl. J.* 8:
- Clutton-Brock, T. H. 1975. Feeding behavior of red colobus and black and white colobus in East Africa. *Folia Primatol.* 23: ,ed.
- 1977. *Primate Ecology: Studies of Feeding and Ranging Behavior in Lemurs, Monkeys and Apes.* London: Academic Press.
- Clutton-Brock, T. H., and P. H. Harvey 1977. Primate ecology and social organization. *J. Zool., Lond.* 183:
- Clutton-Brock, T. H., P. H. Harvey, B. Rudder 1977. Sexual dimorphism, socionomic sex ratio and body weight in primates. *Nature* 269:
- Coe, M. J., and R. D. Cart 1978. The association between dung middens of the blesbok (*Damaliscus dorcas phillipsi* Harper) and mounds of the harvester termite (*Trinervitermes trinervoides* Sjostedt). *S. Afr. J. Wild. Res.* 8:
- Colbert, E. H. 1969. *Evolution of the Vertebrates*, 2d ed. New York: Wiley. Condiotti, M. 1984. Sabinyo. *Wild. News* 19:
- Cooke, H. B. S. 1968. Evolution of mammals on southern continents, 2: The fossil mammal fauna of Africa. *Quart. Rev. Biol.* 43:
- Cooke, H. B. S., and A. F. Wilkinson 1978. Suidae and Tayassuidae. In Maglio and Cooke 1978.
- Cooper, J. B. 1942. An exploratory study of African lions. *Comp. Psycho]. Monographs* 17:
- Coppens, Y., V. J. Maglio, C. T. Madden, M. Beden 1978. Proboscidea. In Maglio and Cooke 1978, chap. 14.
- Cords, M. 1984. Mating patterns and social structure in redbtail monkeys (*Cercopithecus ascanius*). *Z. Tierpsychol.* 64:
- 1987. *Mixed Species Association of Cercopithecus Monkeys in the Kakamega Forest, Kenya.* Berkeley and Los Angeles: Univ. of California Press.
- Coryndon, S. C. 1978. Fossil Hippopotamidae of Africa. In Maglio and Cooke 1978.
- Cowie, M. 1966. *The African Lion.* New York: Golden Press.
- Crandall, L. S. 1964. *The Management of Wild Mammals in Captivity.* Chicago: Univ. of Chicago Press.
- Creel, S. R. and P. M. Waser 1994. Inclusive fitness and reproductive strategies in dwarf mongooses. *Behav. Ecol.* 5:339-48.
- Cronwright-Schreiner, S. C. 1925. *The Migratory Springboks of South Africa.* London: Fisher Unwin.
- Crook, J. H., and P. Aldrich-Blake 1968. Ecological and behavioral contrasts between sympatric ground dwelling primates in Ethiopia. *Folia Primatol.* 8:
- Crowe, T. M., and R. Liversidge 1977. Disproportionate mortality of males in a population of springbok (*Artiodactyla: Bovidae*). *Zool. Afr.* 12:
- Croze, H., A. K. Hillman, E. M. Lang 1981. Elephants and their habitats: how do they tolerate each other? In *Dynamics of Large Mammal Populations*, ed. C. W. Fowler and T. D. Smith. New York: Wiley.
- Cureming, D. H. M. 1975. *A Field Study of the Ecology and Behavior of Warthog.* Salisbury, Rhodesia: Museum Memoir.

- Cuneo, F. 1965. Observation on the breeding of the klipspringer antelope, *Oreotragus oreotragus*, and the behavior of their young born at the Naples Zoo. *Int. Zoo Yb.* 5:
- Dagg, A. I. 1962. The role of the neck in the movements of the giraffe. *J. Mamm.* 43:
- Dagg, A. I., and J. B. Foster 1976. *The Giraffe: Its Biology, Behavior and Ecology*. New York: Van Nostrand Reinhold.
- Darwin, C. 1871. *The Descent of Man and Selection in Relation to Sex*. New York: Appleton.
- Dasmann, R. F., and A. S. Mossman 1962. Population studies of impala in Southern Rhodesia. *J. Mamm.* 43:
- David, J. H. M. 1973. The behavior of the bontebok, *Damaliscus dorcas dorcas* (Pallas 1766), with special reference to territorial behavior. *Z. Tierpsychol.* 33:
- 1975a. Observations on mating behavior, parturition, suckling, and the mother-young bond in the bontebok. *J. Zool., Lond.* 177:
- 1975b. Fidelity to a fixed territory in some male bontebok in the Bontebok National Park, Swellendam, Cape Province. *J. S. Afr. Wildl. Mgmt. Assn.* 5:
- Davis, D. E. 1964. The physiological analysis of aggressive behavior. In *Social Behavior and Organisation among Vertebrates*, ed. W. Etkin. Chicago: Univ. of Chicago Press.
- De Waal, F 1982. *Chimpanzee Politics*. Jonathan Cape, London.
- Dean, W. R. J., W. R. Siegfried, I. A. W. Macdonald 1990. The fallacy, fact and fate of guiding behavior in the greater honeyguide. *Conser. Biol.* 4:
- Dekker, D. 1968. Breeding the Cape hunting dog at Amsterdam Zoo. *Int. Zoo Yb.* 8:
- Demment, M. W., and P. J. Van Soest 1985. A nutritional explanation for body-size patterns of ruminant and nonruminant herbivores. *Am. Nat.* 125:
- DeVore, I., ed. 1965. *Primate Behavior*. New York: Holt, Rinehart and Winston.
- DeVore, I., and K. R. L. Hall 1965. Baboon ecology. In DeVore 1965.
- DeVos, A., and R. J. Dowsett 1966. The behavior and population structure of three species of the genus *Kobus*. *Mammalia* 39:
- DeVos, A., and A. Omar 1971. Territories and movements of Sykes monkeys (*Cercopithecus mitis kolbi* Neuman) in Kenya. *Folia Primat.* 16:
- Diamond, J. 1992, *The Third Chimpanzee: the Evolution and Future of the Human Animal*. Harper Collins Publishers,. New York.
- Dirtrich, L. 1967 Breeding Kirk's dik-dik *Madoqua kirkii thornasi* at Hanover Zoo. *Int. Zoo*, 7:
- 1968. Keeping and breeding gazelles at Hanover Zoo. *Int. Zoo Yb.* 8:
- Dixon, A. and D. Jones, eds. 1988. *Conservation and Biology of Desert Antelopes*. London: Helm.
- Dixson, A. F. 1981. *The Natural History of the Gorilla*. London: Weidenfeld and Nicolson.
- 1983. Observations on the evolution and behavioral significance of "sexual skin" in female primates. In *Advances in the Study of Behavior*, ed. J. S. Rosenblatt et al. New York: Academic Press.
- Donnelly, B. G., and J. H. Grobler 1976. Notes on food and anvil using behavior by the Cape clawless otter, *Aonyx capensis*, in the Rhodes Matopos National Park, Rhodesia. *Arnoldia* 7:
- Dorst, J., and P. Dandelot 1970. *A Field Guide to the Larger Mammals of Africa*. London: Collins.
- Douglas-Hamilton, I. 1972. On the ecology and behavior of the African elephant: the elephants of Lake Manyara. D. Phil. thesis, Oxford Univ.

- 1987. African elephants: population trends and their causes. *Oryx* 21:
- Douglas-Hamilton, I., and O. DouglasHamilton 1975. *Among the Elephants*. London: Collins and Harvill Press.
- Douglas-Hamilton, I. 1992. The African elephant population today. In *Elephants*, ed. H. Shoshani, Emmaus, Penn.: Rodale Press.
- Dowsett, R. J. 1966. Behavior and population structure of the hartebeest in Kafue National Park. *Puku* 4:
- Doyle, G. A. 1974. The behavior of the lesser bushbaby (*Galago senegalensis maholi*). In Martin et al. 1974.
- 1979. Development of behavior in prosimians with special reference to the lesser bushbaby, *Galago senegalensis maholi*. In Doyle and Martin 1979.
- Doyle, G. A., A. Anderson, S. K. Bearder 1969. Maternal behavior in the lesser bushbaby (*Galago senegalensis maholi*) under semi-natural conditions. *Folia Prima toj.* II:
- Doyle, G. A., and R. D. Martin, eds. 1979. *The Study of Prosimian Behavior*. New York: Academic Press.
- Doyle, G. A., A. Pelletier, T. Bekker 1967. Courtship, mating and parturition in the lesser bushbaby (*Galago senegalensis maholi*) under semi-natural conditions. *Folia Primatol.* 7:
- Dragesco, J., F. Feer, G. Genermont 1979. Contribution a la connaissance de *Neotragus batesi* de Winton 1903 (position systematique, donn~es biomn~triques). *Mammalia* 43:
- Dubost, G. 1979. The size of African forest artiodactyls, as determined by the vegetation structure. *Afr. J. Ecol.* 17:
- 1980. L'ecologie et la vie sociale du cdphalophe bleu (*Cephalophus monticola* Thunberg), petit ruminant forestier africain. *Z. Tierpsychoj.* 54:
- 1983a. Le comportement de *Cephalophus monticola* Thunberg et *C. dorsalis* Gray, et la place des cdphalophes au sein des ruminants, Part I. *Mammalia* 47:
- 1983b. Ibid. Part 2. *Mammalia* 47:
- Ducker, G. 1960. Beobachtungen fiber das Paarungsverhalten des Ichneumons (*Herpes tes ichneumon* L.) *Z. Saiugetierk.* 25:
- 1962. Brutpflegeverhalten und Ontogenese des Verhaltens bei Suricaten (*Suricata suricatta* Schreb., *Viverridae*). *Behaviour* 19:
- 1965. Das Verhalten der Schleichkatzen (*Viverridae*). *Handb. Zool.* 8(3 8):
- Dukes, H. H. 1955. *The Physiology of Domestic Animals*, 7th ed. Ithaca, N.Y.: Comstock, Cornell Univ. Press.
- Dunbar, R. I. M. 1978a. Competition and niche separation in a high altitude herbivore community in Ethiopia. *E. Afr. Wildl. J.* 16:
- 1978b. Sexual behavior and social relationships among gelada baboons. *Anim. Behav.* 26:
- 1979. Energetics, therrnoregulation and the behavioral ecology of klipspringer. *Afr. J. Ecol.* 17:
- 1984. *Reproductive Decisions: An Economic Analysis of Gelada Baboon Social Strategies*. Princeton: Princeton Univ. Press.
- 1988. *Primate Social Systems*. London: Christopher Helm. Dunbar, R. I. M., and E. Dunbar 1974. Social organization and ecology of the klipspringer (*Oreotragus oreotragus*) in Ethiopia. *Z. Tierpsychol.* 35:
- 1976. Contrasts in social structure among black-and-white colobus monkey groups. *Anima. Behav.* 24:
- 1979. Observations on the social organization of common duikers in Ethiopia. *Afr. J. Ecol.* 17:
- 1980. The pairbond in klipspringer. *Anim. Behav.* 28:

- Duncan, P. 1975. Topi and their food supply. Ph.D. thesis, Univ. of Nairobi.
- 1976. Ecological studies of topi antelope in the Serengeti. Wildl. News II(I):
- Duplaix, N. 1984. Otters. In Macdonald 1984a.
- DuPlessis, S. 1972. Ecology of blesbok with special reference to productivity. Wildl. Monogr. 30.
- Earle, R. A. 1981. Aspects of the social and feeding behavior of the yellow mongoose *Cynictis penicillata*. Mammalia 45:
- East, R. 1984. Rainfall, soil nutrient status and biomass of large African savanna mammals. Afr. J. Ecol. 22:
- 1988. Antelopes: Global Survey and Regional Action Plans, Part 1: East and Northeast Africa. Gland, Switzerland: IUCN.
- 1989. Antelopes: Global Survey and Regional Action Plans, Part 2: Southern and South Central Africa. Gland, Switzerland: IUCN.
- Eaton, R. L. 1970a. Group interactions, spacing and territoriality in cheetahs. Z. Tierpsychol. 27:
- 1970b. The predatory sequence, with emphasis on killing behavior and its ontogeny, in the cheetah. Z. Tierpsychol. 27:
- 1970c. Notes on the reproductive biology of the cheetah *Acinonyx jubatus*. Int. Zoo Yb. 10: 86-89.
- 1971. Cheetah. Nat. Parks and Conser. Mag. 45(6):
- 1978. The evolution of sociality in the Felidae. In The World's Cats, ed. R. L. Eaton, vol. 3. Seattle: Carnivore Research Ins.
- Eisenberg, J. F. 1973. Mammalian social systems: are primate social systems unique? Symp. IVth Int. Congr. Primat., vol. 1: Precultural Primate Behaviour, Basel: Karger.
- Eisenberg, J. F., and M. Lockhart 1972. An ecological reconnaissance of Wilpattu National Park, Ceylon. Smith. Con tr. Zool. 101:
- Eisenberg, J. F., N. Muckenhirn, R. Rudran 1972. The relation between ecology and social structure in primates. Science, N.Y. 176:
- Eisner, T., and J. A. Davis 1967. Mongoose throwing and smashing millipedes. Science 155:
- Eloff, F. C. 1961. Observations on the migration and habits of the antelopes of the Kalahari Gemsbok Park, part 3. Koedoe 4:
- 1964. On the predatory habits of lions and hyenas. Koedoe 6:
- 1966. Range extension of the blue wildebeest. Koedoe 9:
- 1973a, Ecology and behavior of the Kalahari lion. In Proc. 1st Intern. Symp. Ecol. Behav. and Conserv. of the World's Cats, ed. R. Eaton, Winston, Oregon: World Wildlife Safari.
- 1973b. Water use by the Kalahari lion (*Panthera leo verhayi*). Koedoe 16:
- Emlen, S. T., and L. W. Oring 1977. Ecology, sexual selection and the evolution of mating systems. Science 197:
- Epps, J. 1974. Social interactions of *Perodicticus potto* kept in captivity in Kampala, Uganda. In Martin et al. 1974.
- Erlinge, S. 1967. Home range of the otter *Lutra lutra* L. in southern Sweden. Oikos 18:
- 1968. Territoriality of the otter *Lutra lutra* L. Oikos 19:

- Esser, J. 1973 Beitrage zur Biologie des afrikanischen Rhebockes (*Pelea capreolus* Forster 1790). Ph.D. thesis, Christian-Albrechts Universitait, Kiel.
- Estes, J. A. 1989. Adaptations for aquatic living by carnivores. In *Carnivore Behavior, Ecology, and Evolution*, ed. J. L. Gittieman. Ithaca, N.Y.: Cornell Univ. Press.
- Estes, R. D. 1967a. The comparative behavior of Grant's and Thomson's gazelles. *J. Mamm.* 48:
- 1967b. Predators and scavengers. Parts 1, 2. *Nat. Hist.* 76(2); 76(3):
- 1969. Territorial behavior of the wildebeest (*Connochaetes taurinus* Burcheil, 1823). *Z. Tierpsychol.* 26:
- 1972. The role of the vomeronasal organ in mammalian reproduction. *Mammalia* 36:.
- 1973a. Showdown in Ngorongoro Crater. *Nat. Hist.* 82(8):.
- 1973b. The flamingo eaters of Ngorongoro. *Nat. Geogr.* 144:.
- 1974a. Social organization of the African Bovidae. In Geist and Walther 1974.
- 1974b. Zebras offer clues to the way wild horses once lived. *Smithsonian* 5:
- 1976. The significance of breeding synchrony in the wildebeest. *E. Afr. Wildl. J.* 14:
- 1983. Sable by moonlight. *Anim. Kingd.* 86(4):
- 1991. The significance of horns and other male secondary sexual characters in female bovids. In *Proceedings of the Conference on Ungulate Behavior and Management, Texas A & M University, May, 1988*, ed. E. C. Mungall. *Appl. Anima. Behav. Sdi.* 29:
- Estes, R. D., D. H. M. Cumrning, G. W. Hearn 1982. New facial glands in domestic pig and warthog. *J. Mamm.* 63:
- Estes, R. D., and R. K. Estes 1974. The biology and conservation of the giant sable antelope, *Hippotragus niger variani* Thomas 1916. *Proc. Acad. Nat. Sci.* 126:
- 1979. The birth and survival of wildebeest calves. *Z. Tierpsychol.* 50:
- Estes, R. D., and J. Goddard 1967. Prey selection and hunting behavior of the African wild dog. *J. Wildl. Mgmt.* 31:
- Ewer, R. F. 1963. The behavior of the meerkat, *Suricata suricatta* (Schreber). *Z. Tierpsychol.* 20:
- 1968. *Ethology of Mammals*. London: Logos Press Ltd.
- 1973. *The Carnivores*. Ithaca, N.Y.: Cornell Univ. Press.
- Ewer, R. F., and C. Wemmer 1974. The behavior in captivity of the African civet, *Civettictis civetta* (Schreber). *Z. Tierpsychol.* 34:
- Eyre, M. 1963. A tame otter. *Afr. Wild Life* 17:
- Fairall, N. 1972. Behavioral aspects of the reproductive physiology of the impala, *Aepyceros melampus*. *Zool. Afr.* 7:
- Feer, F. 1979. Observations dcologiques sur le ndotrague dc Bates (*Neotragus batesi* de Winton 1903, Artiodactyle, Ruminant, Bovid~) du nord-est du Gabon. *Terre Vie* 33:
- 1982. Maturit sexuelle et cycle annuel de *Neotragus batesi* de Winton, 1903 (Bovid~ forestier africain). *Mammalia* 46:
- Ferguson, J. W. H. 1978. Social interactions of black-backed jackals *Canis mesomelas* in the Kalahari Gemsbok National Park, South Africa. *Koedoe* 211:

- Ferreira, N. A., and R. C. Bigalke 1987. Food selection by gray rhebok in the Orange Free State, South Africa. S. Afr. J. Wildl. Res. 17:
- Fey, V. 1960. A note on the behavior of the tree hyrax. J. E. Afr. Nat. Hist. Soc. 23:
- Fiedler, W. 1972. Monkeys and apes. In Grzimek 's Animal Life Encyclopedia, ed. B. Grzimek, vol. 10, Mammals i. New York: Van Nostrand Reinhold.
- Field, C. R. 1970. A study of the feeding habits of *Hippopotamus amphibius* Linn. in the Queen Elizabeth National Park, Uganda, with some management implications. Zool. Afr. 5:
- Field, C. R., and R. M. Laws 1970. The distribution of the larger herbivores in the Queen Elizabeth National Park. App. Ecol. 7:
- Finch, V. A. 1972. Thermoregulation and heat balance of the East African eland and hartebeest. Am. J. Physiol. 222:
- Fischer, M. S. 1986. Die Stellung der Schliefer (Hyracoidea) im phylogenetischen System der Eutheria. Courier Forschungsinstitut Sencken berg, Frankfurt a. M.,. typescript.
- FitzGibbon, C. D. r989. A cost to individuals with reduced vigilance in groups of Thomson's gazelles hunted by cheetahs. Anima. Behav. 37:
- Floody, O. R., and A. P. Arnold 1975. Uganda kob (*Adenota kob thomasi*). Territoriality and the spatial distribution of sexual and agonistic behaviors at a territorial ground. Z. Tierpsychol. 37:
- Fossey, D. 1972. Vocalizations of the mountain gorilla (*Gorilla gorilla beringei*). Anima. Behav. 20:
 ----- 1982. Reproduction among free-living mountain gorillas. Am. I. Primatol., Suppl. i:
 ----- 1983. Gorillas in the Mist. Boston: Houghton Mifflin.
- Fossey, D., and A. Harcourt 1977. Feeding ecology of free-ranging mountain gorilla (*Gorilla gorilla beringei*). In Clutton-Brock 1977.
- Foster, J. B. 1967. The square-lipped rhino (*Ceratotherium simeumn cottoni* [Lydekker]) in Uganda. F. Afr. Wildl. 1. 5:
- Foster, J. B., and D. Kearney 1967. Nairobi Park census. E. Afr. Wildl. J. 5:. Fox, M. W.
 ----- 1970. A comparative study of the development of facial expressions in canids, wolf, coyote and foxes. Behaviour 36:
 ----- 1971a. Behavior of Wolves, Dogs, and Related Canids. London: Jonathan Cape.
 ----- 1971b. Socio-infantile and sociosexual signals in canids: a comparative and ontogenetic study. Z. Tierpsychol. 28:
 ----- 1971c. Ontogeny of a social display in *Hyaena hyaena*: anal protrusion. J. Mammr. 52:
- Fradrich, H. 1967. Das Verhalten der Schweine (Suidae, Tayassuidae) und Flusspferde (Hippopotamidae). Handb. Zool. 8(26):
 ----- 1974. A comparison of behavior in the Suidae. In Geist and Walther 1974.
- Frame, G. W. 1971. The black rhinoceros. Animals (July):
 ----- 1980. Cheetah social organization in the Serengeti ecosystem, Tanzania. Invited paper, Animal Behavior Society annual meeting.
- Frame, G. W., and L. H. Frame 1976. Interim cheetah report for the Serengeti Research Institute, 28:
 ----- 1977. Serengeti cheetah. Wildlife News 12{3}:
 ----- 1980. Cheetahs: in a race for survival. Nat. Geogr. 157:

- 1981. Swift and Enduring: Cheetahs and Wild Dogs of the Serengeti. New York: Dutton.
- Frame, L. H., and G. W. Frame 1976. Female African wild dogs emigrate. *Nature* 263:
- Frame, L. H., J. R. Malcolm, G. W. Frame, H. Van Lawick 1979. Social organization of African wild dogs (*Lycaon pictus*) on the Serengeti Plains, Tanzania, 1967-1978. *Z. Tierpsychol.* 50:
- Frank, L. G. 1986a. Social organization of the spotted hyena (*Crocuta crocuta*), I: Demography. *Anima. Behav.* 34:
- 1986b. Ibid. II: Dominance and reproduction. *Anima. Behav.* 34:
- Frank, L. G., J. M. Davidson, E. R. Smith 1985. Androgen levels in the spotted hyena *Crocuta crocuta*: the influence of social factors. *J. Zool., Lond. (A)* 206:
- Frank, L. G., S. E. Glickman, C. I. Zabel 1989. Ontogeny of female dominance in the spotted hyaena: perspectives from nature and captivity. In *The Biology of Large African Mammals in Their Environment*, ed. P. A. Jewell and G. M. O. Maloiy., *Symp. Zool. Soc. Lond. No. 61.* Oxford: Clarendon Press.
- Friedmann, H. 1955. The honey-guides. *Bull. U.S. Nat. Mus.* 208:
- Fryxell, J. 1980. On the road with the whiteeared kob. *Anima. Kingd* 83, Sept./Oct
- 1985. Resource limitation and population ecology of white-eared kob. Ph.D. thesis, Univ. of British Columbia.
- 1987a. Seasonal reproduction of white-eared kob in Boma National Park, Sudan. *Afr. J. Ecol.* 25:
- 1987b. Lek breeding and territorial aggression in white-eared kob. *Ethology* 75:
- 1988. Seasonal migration by whiteeared kob in relation to resources. *Afr. J. Ecol.* 26:
- Fuente, R. de la 1972. Africa. Hunters and Hunted of the Savannah. *World of Wildlife.* London: Orbis.
- Galat-Luong, A., and G. Galat 1979. Abondance relative et associations plurispdcifiques des primates diurnes du parc national de Tai, Cote d'Ivoire. ORSTOM, Project Tai, 39 PP.
- Gambaryan, P. P. 1974. How Mammals Run. New York: Wiley.
- Gangloff, B., and P. Ropartz 1972. Le repertoire comportemental de la genette *Genetta genetta* (Linnd). *Terre Vie* 26:
- Garstang, R. 1982. An analysis of home range utilization by the tsessebe, *Damaliscus lunatus lunatus* (Burchell), in P. W. Willis Private Nature Reserve. M.Sc. thesis, Univ. of Pretoria.
- Gartlan, J. S. 1969. Sexual and maternal behavior of the vervet monkey, *Cercopithecus aethiops*. *J. Reprod. Fertit.* 6:
- Gartlan, J. S., and C. K. Brain 1968. Ecology and social variability in *Cercopithecus aethiops* and *C. mitis*. In *Primates: Studies in Adaptation and Variability*, ed. P. Jay., New York: Holt, Rinehart and Winston.
- Gartlan, J. S., and T. T. Struhsaker 1979. Polyspecific associations and niche separation of rain-forest anthropoids in Cameroon, West Africa. In *Primate Ecology*, ed. R. W. Sussman. New York: Wiley.
- Gautier, J.-P., and A. Gautier-Hion 1977. Communication in Old World Monkeys. In *Sebeok 1977.*
- 1982. Vocal communication within a group of monkeys: analysis by biotelemetry. In *Primate Communication*, ed. C. T. Snowdon, C. H. Brown, M. Petersen. New York: Cambridge Univ. Press.
- Gautier-Hion, A. 1978. Food niches and coexistence in sympatric primates in Gabon. In *Recent Advances in Primatology*, ed. D. J. Chivers and J. Herbert. London: Academic Press.
- Gautier-Hion, A., F. Bourliere, J.P. Gautier, J. Kingdon, eds. 1988. A Primate Radiation: Evolutionary Biology of the African Guenons. New York: Cambridge Univ. Press.

- Gautier-Hion, A., L. H. Emmons, C. Dubost 1980. A comparison of the diets of three major groups of primary consumers of Gabon (primates, squirrels and ruminants). *Oecologia* 45:
- Gautier-Hion, A., and J.P. Gautier 1986. Sexual dimorphism, social units and ecology among sympatric forest guenons. *Symposia of the Society for the Study of Human Biology* 24:
- Gautier-Hion, A., R. Quris, J.P. Gautier 1983. Monospecific vs. polyspecific life: a comparative study of foraging and antipredatory tactics in a community of *Cercopithecus* monkeys. *Behav. Ecol. Sociobiol.* 12:
- Geertsema, A. 1976. Impressions and observations on setvat behavior in Tanzania, East Africa. *Mammalia* 40:
 ----- 1981. The servals of Gorongor. *Wildlife News* 16(3):
- Geist, V. 1966. The evolution of horn-like organs. *Behaviour* 27:
 ----- 1974. On the relationship of social evolution and ecology in ungulates. *Am. Zool.* 14:
- Geist, V., and F. R. Walther, eds. 1974. *The Behavior of Ungulates and Its Relation to Management*. Morges, Switzerland: IUCN Publ. New Series No. 24.
- Gentry, A. W. 1964. Skull characters of African gazelles. *Ann. Mag. Nat. Hist.* 13:
 ----- 1970. The Bovidae (Mammalia) of the Ft. Teman fossil fauna. In *Fossil Vertebrates of Africa, II*, ed. L. S. B. Leakey and R. J. G. Savage. London: Academic Press.
 ----- 1971. Genus *Gazella*. In *The Mammals of Africa, an Identification Manual*, ed. J. Meester and H. W. Setzer, Part 15.1. Washington, D.C: Smithsonian Institution.
 ----- 1978. Bovidae. In Maglio and Cooke 1978.
- Georgiadis, N. 1985. Growth patterns, sexual dimorphism and reproduction in African ruminants. *Afr. j. Ecol.* 23:
- Gerlach, G. and H. N. Hoek (2001): Island on the plains: Metapopulation dynamics and female biased dispersal in hyraxes (Hyracoidea) in the Serengeti National Park. *Molecular Ecology* 10:
- Ghiglieri, M. P. 1984. *The Chimpanzees of Kibale Forest. A field study of ecology and social structure*. New York: Columbia Univ. Press.
- Ghobrial, L. 1974. Water relation and requirement of the dorcas gazelle in the Sudan. *Mammalia* 38:
- Gillman, J., and C. Gilbert 1946. The reproductive cycle of the chacma baboon (*Papio ursinus*) with special reference to the problems of menstrual irregularities as assessed by the behavior of the sex skin. *S. Afr. J. Med. Sci.* ii:
- Ginsberg, J. R. 1987. *Social organization and mating strategies of an arid adapted equid, Grevy's zebra*. Unpub. Ph.D. thesis, Princeton Univ.
 ----- 1989. The ecology of female behavior and male mating success in the Grevy's zebra. In *The Biology of Large African Mammals in Their Environment*, ed. P. A. Jewell and G. M. O. Maloiy. *Symp. Zool. Soc. Lond.* No. 61. Oxford: Clarendon Press.
- Gittleman, J. L. 1989. Carnivore group living: comparative trends. In *Carnivore Behavior, Ecology, and Evolution*, ed. J. L. Gittleman, pp. 183-208. Ithaca, N.Y.: Cornell Univ. Press.
 _____ 1996. *Carnivore Behavior, Ecology, and Evolution*. Cornell Univ. Press, Ithaca and London. 2 vols.
- Glenn, M. E. & M. Cords (eds.) 2002. *The Guenons: Diversity and Adaptation in African Monkeys*. Kluwer Academic/Plenum, New York.
- Goddard, J. 1966. Mating and courtship of the black rhinoceros (*Diceros bicornis* L.). *E. Afr. Wildl. J.* 4:
 ----- 1967. Home range, behavior, and recruitment rates of two black rhinoceros populations. *E. Afr. Wildl. J.* 5: 13350. 1970. Food preferences of black rhinoceros in the Tsavo National Park. *E. Afr. Wildl. J.* 8:
- Goethe, F. 1964. Das Verhalten der Musteliden. *Handb. Zool.* 8(37):

- Golani, I., and A. Keller 1975. A longitudinal field study of the behavior of a pair of golden jackals. In *The Wild Canids*. ed. M. W. Fox. New York: Van Nostrand Reinhold.
- Golani, I., and H. Mendelssohn 1971. Sequences of precopulatory behavior of the jackal, *Canis aureus* L. *Behaviour* 38:
- Goodall, A. 1977 Feeding and ranging behavior of a mountain gorilla group (*Gorilla gorilla beringei*) in the Tshibinda-Kahuzi region (Zaire). In Clutton-Brock 1977.
- Goodall, J. 1979. Life and death at Gombe. *Nat. Geogr.* 155:
- 1983. Population dynamics during a 15-year period in one community of freelifving chimpanzees in the Gombe National Park, Tanzania. *Primates* 21:
- 1986. *The Chimpanzees of Gombe*. Cambridge, Mass.: Harvard Univ. Press.
- Goodhart, C. B. 1975. Does the aardwolf mimic a hyena? *Zool. J. Linnean Soc.* 57:
- Gorman, M. L. 1976. A mechanism for individual recognition by odor in *Herpestes auropunctatus* (Carnivora: Viverridae). *Anim. Behav.* 24:
- 1986. The secretion of the temporal gland of the African elephant *Loxodonta africana* as an elephant repellent. *J. Trop. Ecol.* 2:
- Gorman, M. L., D. Jenkins, R. J. Harper 1978. The anal scent sacs of the otter, *Lutra lutra*. *J. Zool., Lond.* 186:
- Gorman, M. L., and G. L. Mills 1984. Scentmarking strategies in hyaenas (Mammalia). [*J. Zool., Lond.* 202:
- Gorman, M. L., and B. J. Trowbridge 1989. The role of odor in the social lives of carnivores. In *Carnivore Behavior, Ecology, and Evolution*, ed. J. L. Gittleman. Ithaca, N.Y.: Cornell Univ. Press.
- Gosling, L. M. 1969. Parturition and related behavior in Coke's hartebeest, *Alcelaphus busetaphus cokei* Guinther. 1. *Reprod. Fertil., Suppl.* 6:
- 1972. The construction of antorbital gland marking sites by male oribi (*Ourebia ourebi* Zimmerman, 1783). *Z. Tierpsychol.* 30:
- 1974. The social behavior of Coke's hartebeest (*Alcelaphus busetaphus cokei*). In Geist and Walther 1974.
- 1981. Demarcation in a gerenuk territory: an economic approach. *Z. Tierpsychol.* 56:
- 1982. A reassessment of the function of scent-marking in territories. *Z. Tierpsychol.* 60:
- 1985. The even-toed ungulates: order Artiodactyla. Sources, behavioral context, and function of chemical signals. In *Social Odours in Mammals*, ed. R. E. Brown and D. W. Macdonald. Oxford: Oxford Univ. Press.
- 1991. The alternative mating strategies of male topi, *Dama aliscus lunatus*. In *Proceedings of the Conference on Ungulate Behavior and Management*, Texas A & M University, May 1988, ed. E. C. Mungall. *Anim. Behav. Sci.* 29:
- Gosling, L. M., M. Petrie, M. E. Rainy 1987. Lekking in topi: a high cost, specialist strategy. *Anim. Behav.* 35:
- Gowda, C. D. Krishna 1967. A note on the birth of caracal lynx at Mysore Zoo. *Int. Zoo Yb.* 7: 133. Graham, E., ed.
- 1981. *Reproductive Biology of the Great Apes*. New York: Academic Press.
- Gregory, W. K., and M. Heilman 1939 On the evolution and major classification of the civets (Viverridae) and allied fossil and recent Carnivora: a phylogenetic study of the skull and dentition. *Proc. Am. Phil. Soc.* 81:
- Grimsdell, J. J. R. 1973. Reproduction in the African buffalo, *Syncerus caffer*, in Western Uganda. *J. Reprod. Fertil., Suppl.* 19:

- Grimsdell, J. J. R., and R. H. V. Bell 1975. Black lechwe research project final report. Lusaka: National Council for Scientific Research. Grobler, J. H.
- 1974. Aspects of the biology, population ecology and behavior of the sable, *Hippotragus niger niger* (Harris 1838) in the Rhodes Matopos National Park, Rhodesia. *Arnoldia* 7:
- 1981. Feeding behavior of the caracal (*Felis caracal* Schreber 1776 in the Mountain Zebra National Park. *S. Afr. Tydskr. Dierk.* 16:
- Grobler, J. H., and V. J. Wilson 1972. Food of the leopard (*Panthera pardus* Linn.) in the Rhodes Matopos National Park, Rhodesia, as determined by fecal analysis. *Arnoldia* 5:
- Groves, C. P. 1969. On the smaller gazelles of the genus *Gazella* de Blainville. *Z. Sdugetierk.* 34:
- 1971. Distribution and place of origin of the gorilla. *Man* (London), n.s. 6:
- 1981. Subspecies and dlines in the springbok {*Antidorcas*}. *Z. Siiugetierk.* 46:
- Groves, C. P., and P. Grubb 1974 A new duiker from Rwanda. *Rev. Zool. Africaine* 88:
- Grubb, P. 1973. Distribution, divergence and speciation of the drill and mandrill. *Folia Primatol.* 20:
- Grubb, P., Butynski, T. M., Oates, J. F., Bearder, S. K., Disotell, T. R., Groves, C. P., Struhsaker, T. T. 2002. An assessment of the diversity of frican primates. Unpub. report. IUCN SSC Primate Specialist Group, Washington, D. C
- Grubb, P, Butynski, T.M., Oates, J.F., Bearder, S.K., Disotell, T.R., Groves, C.P., and Struhsaker, T.T. 2003 An assessment of the diversity of African primates. *International Journal of Primatology* 24 (6).
- Grzimek. B. 1957. Beobachtungen an Gorillas und Schimpansen in Spanisch-Guinea. *Zoo. Gart.* 23: ed. 1972.
- Grzimek's Animal Life Encyclopedia, vol. 13, Mammals 4. New York: Van Nostrand Reinhold.
- Guggisberg, C. A. W. 1961. *Simbha, the Life of the Lion*. Cape Town: Howard Timmins.
- Gundlach, H. 1968. Brutfuirsorge, Brutpflege, Verhaltensontogenese und Tagesperiodik beim Europaiischen Wildschwein (*Sus scrofa* L.). *Z. Tierpsychol.* 25:
- Haddow, A. J., and J. M. Ellice 1964. Studies on bushbabies (*Galago* spp., with special reference to the epidemiology of yellow fever. *Trans. Roy. Soc. Trop. Med. Hyg.* 58:
- Hafez, E. S. E., ed. 1975. *The Behavior of Domestic Animals*, 3rd ed. Baltimore: Williams and Wilkins.
- Hafez, E. S. E., and M. W. Scheim 1962. The behavior of cattle. In *The Behavior of Domestic Animals*, ed. E. S. E. Hafez. London: Baitliere, Tindall & Cox.
- Hafez, E. S. E., and J. P. Signoret 1969. The behavior of swine. In *The Behavior of Domestic Animals*, ed. E. S. E. Hafez, 2nd ed. London: Bailliere, Tindall & Cassell.
- Hafez, E. S. E., M. Williams, S. Wierzbowski 1962. The behavior of horses. In *The Behavior of Domestic Animals*, ed. E. S. E. Hafez. London: Baillitre, Tindall & Cox. Hall, K. R. L.
- 1962a. Numerical data, maintenance activities and locomotion of the wild chacma baboon, *Papio ursinus*. *Proc. Zool. Soc. Lond.* 139:
- 1962b. The sexual, agonistic and derived social behavior pattenas of the wild chacma baboon, *Papio ursinus*. *Proc. Zool. Soc. Lond.* 139:
- 1966. Distributions and adaptations of baboons. *Symp. Zool. Soc. Lond.* 17: Hall, K. R. L., R. C. Boelkins, M. J.
- Goswell 1965. Behavior of patas, *Erythrocebus patas*, in captivity, with notes on the natural habitat. *Folia Primatol.* 3:

- Hall, K. R. L., and I. DeVore 1965. Baboon social behavior. In DeVore 1965.
- Hall, K. R. L., and J. S. Gartlan 1965. Ecology and behavior of the vervet monkey. *Cercopithecus aethiops*, Lolui Island, Lake Victoria. Proc. Zool. Soc. Lond. 145:
- Hall-Martin, A. J. 1987. Role of musth in the reproductive strategy of the African elephant *Loxodonta africana*. Afr. J. Sci. 83:
- Hall-Martin, A. J., J. D. Skinner, J. M. Van Dyk 1975. Reproduction in the giraffe in relation to some environmental factors. E. Afr. Wildl. J. 13:
- Halperin, S. D. 1979. Temporary association patterns in free ranging chimpanzees: an assessment of individual grouping preferences. In The Great Apes, ed. D. A. Hamburg and E. R. McCown. Menlo Park, Calif.: Benjamin/Cummings.
- Haltenorth, T., and H. Diller 1980. A Field Guide to the Mammals of Africa. London: Collins.
- Hamann, U. 1979. Beobachtungen zum Verhalten von Bongoantilopen (*Tragelaphus euryceros* Ogilby, 1836). Zool. Gart. 49:
- Hamburg, D. A., and E. R. McCown, eds. 1979. The Great Apes. Menlo Park, Calif.: Benjamin/Cummings.
- Hamilton, W. J., R. E. Buskirk, W. H. Buskirk 1975. Chacma baboon tactics during inter-troop encounters. 1. Mammr. 56:
- 1976. Defense of space and resources by chacma (*Papio ursinus*) baboon troops in an African desert and swamp. Ecology 57:
- 1977. Intersexual dominance and differential mortality of gemsbok (*Oryx gazella*) at Namib Desert waterholes. Mado qua 10:
- 1978. Omnivory and utilization of food resources by chacma baboons, *Papio ursinus*. Am. Nat. 112:
- Hanby, J. 1983. Lions Share: The Story of a Serengeti Pride. London: Collins.
- Hanby, J., and D. C. Bygott 1987. Emigration of subadult lions. Anima. Behav. 35:
- Hanks, J., M. Stanley Price, R. W. Wrangham 1969. Some aspects of the ecology and behavior of the defassa waterbuck (*Kobus defassa*) in Zambia. Mammalia 33:
- Hannah, A. C., and W. C. McGrew 1987. Chimpanzees using stones to crack open oil palm nuts in Liberia. Primates 31:
- Harcourt, A. H. 1979. Social relationships between adult male and female mountain gorillas in the wild. Anim. Behav. 27:
- 1982. Mountain gorilla population report. Wildlife News 19(2): 1984. Gorilla. In Macdonald 1984a.
- Harcourt, A. H., D. Fossey, J. Sabater Pi x1981. Demography of Gorilla gorilla. J. Zool., Land. 195:
- Harcourt, A. H., and K. Stewart 1983. Interactions, relationships and social structure: the great apes. In Hinde 1983.
- 1989. Functions of alliances in contests within wild gorilla groups. Behaviour 109:
- Harcourt, A. H., K. Stewart, D. Fossey 1976. Male emigration and female transfer in wild mountain gorilla. Nature 263:
- 1981. Gorilla reproduction in the wild. In Graham 1981.
- Harcourt, C. S., and L. T. Nash 1986. Social organization of galagos in Kenyan coastal forests: 1. *Galago zanzibaricus*. Am. J. Primatol. 10:
- Harding, R. S. O. 1976. Ranging patterns of a troop of baboons (*Papio anubis*) in Kenya. Folia Primatol. 25:

- Harding, R. S. O., and S. D. Strum 1976. The predatory baboons of Kekopey. *Nat. Hist.* 55:
- Harris, C. J. 1968. Otters. London: Weidenfeld and Nicolson.
- Harrison, D. 1968. The Mammals of Arabia, Vol. 2. London: Ernest Benn.
- Harrison, M. J. 5. 1983. Territorial behavior in the green monkey, *Cercopithecus sabaesus*: seasonal defense of local food supplies. *Behav. Ecol. Sociobiol.* 12:
- Hart, B. L., L. A. Hart, J. N. Maina 1988. Alteration in vomeronasal system anatomy in alcelaphine antelopes: correlation with alteration in chemosensory investigation. *Physiology and Behavior* 42:
- Hart, L. A., and B. L. Hart 1987. Species-specific patterns of urine investigation and flehmen in Grant's gazelle (*Gazella granti*), Thomson's gazelle (*Gazella thomsonii*), impala (*Aepyceros melampus*) and eland (*Taurotragus oryx*). *J. Comp. Psychol.* 101:
- 1988. Autogrooming and social grooming in impala. *Ann. N.Y. Acad. Sci.* 525:
- Hausfater, G. 1975. Dominance and Reproduction in Baboons (*Papio cynocephalus*). Basel: S. Karger.
- 1977. Tail carriage in baboons (*Papio cynocephalus*): relationship to dominance rank and age. *Folia Primatol.* 27:
- Hediger, H. 1951i. Observations sur la psychologie animale dans les Parcs Nationaux du Congo Belge. *Ins. Parcs Nat. Congo Belge.*
- Hefetz, A., R. Ben-Yaacov, Y. Yam-Toy, H. A. Lloyd 1982. The anal gland secretion of the African mongoose, *Herpestes flihlinoranhv neumon*. Chemistry and function. Cited by Ben-Yaacov and Yom-Tov 1983 as "in press."
- Heinichen, I. G. 1969. Karyotype of the South West African plains zebra (*Equus burchelli* Gray, 1824 subsp.) and mountain zebra (*Equus zebra hartmannae* Matschie, 1898): their cytogenetic relationship to Chapman's zebra (*Equus burchelli antiquorum* H. Smith, 1841) and the Cradock Mountain zebra (*Equus zebra zebra* Linn. 1758). *Madoqua* 1:
- Heintz, E. 1969. Le dimorphisme sexuel des appendices frontaux chez *Gazella deperdita* Gervais (Bovidae, Artiodactyla, Mammalia) et sa signification phylogénique. *Mammalia* 33:
- Hendrichs, H. 1971. Freilandbeobachtungen zum Sozialsystem des afrikanischen Elefanten, *Loxodonta africana* (Blumenbach, 1797). In *Dikdik und Elefanten*, H. and U. Hendrichs, pp. 77-173. Munich: R. Piper.
- 1972. Beobachtungen und Untersuchungen zur Ökologie und Ethologie, insbesondere zur sozialen Organisation ostafrikanischer Säugetiere. *Z. Tierpsychol.* 30:
- 1975a. Changes in a population of dikdik, *Madoqua, Rhynchotragus kirkii* (Guinther 1880). *Z. Tierpsychol.* 38:
- 1975b. Observations on a population of bohor reedbuck, *Redunca redunca* (Pallas 1767). *Z. Tierpsychol.* 38:
- Hendrichs, H., and U. Hendrichs 1971. Freilanduntersuchungen zur Ökologie und Ethologie der Zwerg-Antilope, *Madoqua (Rhynchotragus) kirkii* (Guinther, 1880). In *Dikdik und Elefanten*, H. and U. Hendrichs. Munich: R. Piper. Henzi, S. P., and M. Lawes
- 1987. Breeding season influxes and the behavior of adult male samango monkeys (*Cercopithecus mitis albogularis*). *Folia Primatol.* 48:
- Herbert, H. J. 1972. The Population Dynamics of the Waterbuck *Kobus ellipsiprymnus* (Ogilby 1833) in the Sabi-Sand Wildtuin. *Mammalia Depicta*. Hamburg and Berlin: Verlag Paul Parey.
- Hildebrand, M. 1952. The integument in Canidae. I. *Mamm.* 33:
- 1965. Symmetrical gaits of horses. *Science* 150:
- Hill, A. 1980. Hyena provisioning of juvenile offspring at the den. *Mammalia* 44:

- Hill, W. C. O., and A. H. Booth 1957. Voice and larynx in African and Asiatic Colobidae. *J. Bornbay Nat. Hist. Soc.* 54:
- Hillman, J. C. 1974. Ecology and behavior of the wild eland. *Wildlife News* 9:
- 1979. The biology of the eland, *Taurotragus oryx* Pallas) in the wild. Ph.D. thesis, Univ. of Nairobi.
- 1986. Aspects of the biology of the bongo antelope, *Tragelaphus eurycerus* Ogilby 1837, in southwest Sudan. *Biol. Conser.* 38:
- 1987. Group size and association patterns of the common eland *Tragelaphus oryx*. *J. Zool., Lond.* 213:
- 1988. Home range and movement of the common eland (*Taurotragus oryx* Pallas 1766) in Kenya. *Aft. J. Ecol.* 26:
- Hillman, J. C., and J. M. Fryxell 1988. Sudan. In East 1988.
- Hinde, R., ed. 1983. *Primate Social Relationships: An Integrated Approach*. Oxford: Blackwell.
- Hinton, H. E., and A. M. S. Dunn 1967. *Montgooses, their Natural History and Behavior*. Edinburgh and London: Oliver and Boyd.
- Hitchins, P. M. 1968. Some preliminary findings on the population structure and status of the black rhinoceros *Diceros bicornis* in Hluhluwe Game Reserve, Zululand. *Lammergeyer* 9:
- 1969. Influence of vegetation types on sizes of home ranges of black rhino in Hluhluwe Game Reserve. *Lammergeyer* 3:
- H. J. H. 1984. Genets. In Macdonald 1984a.
- Hladik, C. M. 1977. Chimpanzees of Gombe and the chimpanzees of Gabon: some comparative data on the diet. In Clutton-Brock 1977.
- 1979. Diet and ecology of prosimians. In Doyle and Martin 1979.
- Hoeck, H. N. 1975. Differential feeding behavior of the sympatric hyrax *Procavia johnstoni* and *Heterohyrax brucei*. *Oecologia* 22:
- 1976. *Procavia johnstoni* (Procaviidae) mating behavior. Film E2178 of the Inst. Wis. Film, Gottingen.
- 1977. "Teat order" in hyrax (*Procavia johnstoni* and *Heterohyrax brucei*). *Z. Sdugetierk.* 42:
- 1978. Systematics of the Hyracoidea: toward a clarification. *Bull. Carnegie Mus. Nat. Hist.* 6:
- 1982. Population dynamics, dispersal and genetic isolation in two species of hyrax (*Heterohyrax brucei* and *Procavia johnstoni*) on habitat islands in the Serengeti. *Z. Tierpsychol.* 59:
- 1984. Hyraxes. in Macdonald 1984a, 1989. Demography and competition in hyrax. *Oecologia* 79:
- Hoeck, H. N., H. Klein, P. Hoeck 1982. Flexible social organization in hyrax. *Z. Tierpsycho.* 59:
- Hofmann, R. R. 1968. Comparisons of rumen and omasum structure in East African game ruminants in relation to their feeding habits. In *Comparative Nutrition of Wild Animals*, ed. M. A. Crawford. London: Symup. Zool. Soc. Lond. No. 21.
- 1973. The Ruminant Stomach. *E. Afr. Monogr. in Biol.*, vol. 2. Nairobi: East African Literature Bureau.
- Hofmeyer, J. M., and J. D. Skinner 1969. A note on ovulation and implantation in the steenbok and the impala. *Proc. S. Afr. Soc. Anim. Prod.* 8:
- Hofmeyer, M. D., and G. N. Louw 1987. Thermoregulation, pelage conductance and renal function in the desert-adapted springbok *Antidorcas marsupialis*. *J. Arid Environ.* 2:

- Holsworth, W. N. 1972. Reedbuck concentrations in the Dinder National Park, Sudan. *E. Afr. Wildl. J.* 19:
- Holzapfel, M. 1939. Markierungsverhalten beider Hyaine. *Z. Morph. O.kol. Tiere* 35:
- Hooijer, D. A. 1978. Rhinocerotidae. In Maglio and Cooke 1978.
- Hoppe, P. P. 1977a. Comparison of voluntary food and water intake and digestion in Kirk's dik-dik and suni. *E. Afr. Wildl. J.* 15:
- 1977b. How to survive heat and aridity; ecophysiology of the dik-dik antelope. *Vet. Med. Rev.* i:
- Howard, P. C. 1986a. Social organization of common reedbuck and its role in population regulation. *Afr. J. Ecol.* 24:
- 1986b. Spatial organization of common reedbuck with special reference to the role of juvenile dispersal in population regulation. *Afr. J. Ecol.* 24:
- Hrdy, S. B. 1974. Male-male competition and infanticide among the langurs (*Presbytis entellus*) of Abu, Rajasthan. *Folia Primatol.* 22:
- 1977. *The Langurs of Abu*. Cambridge: Harvard Univ. Press.
- Hrdy, S. B., and P. L. Whitten 1986. Patterning of sexual activity. In B. Smuts et al. 1986.
- Huntley, B. J. 1972. Observations of the Percy Fyfe Nature Reserve tsessebe population. *Ann. Transvaal Mus.* 27:
- Huth, H. H. 1970. Zum Verhalten der Rappenantilope (*Hippotragus niger* Harris 1838). *Zool. Gart.* 38:
- 1980. Verhaltensstudien an Pferdebocken (Hippotraginae) unter Beruicksichtigung stammesgeschichtlicher und systematischer Fragen. *Saiugetierk. Mitt.* 28:
- Ikeda, H., Y. Ono, M. Baba, T. Doi, T. Iwamoto 1982. Ranging and activity patterns of three nocturnal viverrids in Oino National Park, Ethiopia. *Afr. J. Ecol.* 20:
- Innis, A. C. 1958. The behavior of the giraffe, *Giraffa camelopardalis*, in the eastern Transvaal. *Proc. Zo]. Soc. Lond.* 131:
- Irby, L. R. 1976. The ecology of mountain reedbuck in southern and eastern Africa. Ph.D. thesis, Texas A & M Univ.
- 1979. Reproduction in mountain reedbuck (*Redunca fulvorufula*). *Mainmalia* 43:
- IUCN 1986. Red List of Threatened Animals. Cambridge, U.K.: World Conservation Monitoring Centre.
- Izawa, K., and J. Itani 1966. Chimpanzees in Kasakata Basin, Tanganyika: I. Ecological study in the rainy season, 1963/64. *Kyoto Univ. Afr. Studies* i:
- Jacobsen, N. H. G. 1982. Observations on the behavior of slender mongooses, *Herpestes sanguineus*, in captivity. *Sliugetierk. Mitt.* 30:
- Janis, C. 1976. The evolutionary strategy of the Equidae and the origins of rumen and caecal digestion. *Evolution* 30:
- 1982. Evolution of horns in ungulates: ecology and paleoecology. *Biol. Rev.* 57:
- Janis, C., and P. J. Jarman 1984. The hoofed mammals: even-toed ungulates. In Macdonald 1984a.
- Jarman, M. V. 1979. Impala social behavior. *Beihefte Z. Tierpsychol.* 21:
- Jarman, M. V., and P. J. Jarman 1973. Daily activity of impala. *E. Afr. Wildl. J.* ii:
- Jarman, P. J. 1972a. Seasonal distribution of large mammal populations in the unflooded middle Zambezi Valley. *J. Appl. Ecol.* 9:
- 1972b. The development of a dermal shield in impala. *J. Zool., Lond.* 166:

- 1974. The social organization of an telopes in relation to their ecology. Behaviour 48:
- 1983. Mating systems and sexual dimorphism in large, terrestrial, mammalian herbivores. Biol. Rev. 58:
- Jarman, P. J., and M. V. Jarman 1973. Social behavior, population structure and reproductive potential in impala. E. Aft. Wildl. J. il:
- 1974. Impala behavior and its relevance to management. In Geist and Walther 1974.
- Jeffery, R. C. V., R. H. V. Bell, W. F. Ansell 1989. Zambia. In East 1989.
- Jenkins, F. A., and S. M. Camazine 1977. Hip structure and locomotion in ambulatory and cursorial carnivores. J. Zool., Lond. 181:
- Jewell, P. A. 1972. Social organization and movements of topi (*Damdaiscus korrigum*) during the rut at Ishasha, Queen Elizabeth Park, Uganda. Zool. Aft. 7:
- Jolly, A. 1966. Lemur Behavior. Chicago: Univ. of Chicago Press. 1985. The Evolution of Primate Behavior, 2d ed. New York: Macmillan.
- Jolly, C. J. 1970. The large African monkeys as an adaptive array. In Old World Monkeys, ed. J. R. and P. H. Napier. New York: Academic Press.
- Jones, C., and J. Sabater Pi 1971. Comparative ecology of *Gorilla gorilla* (Savage and Wyman) and *Pan troglodytes* (Blumenbach) in Rio Muni, West Africa. Biblioth. Primatol. 13:
- Jones, M. A. 1978. A scent-marking gland in the bushpig (*Potamochoerus porcus* Linnaeus 1758). Arnoldia 8:
- 1984. Seasonal changes in the diet of bushpig, *Potamochoerus porcus* Linn., in the Matopos National Park. S. Aft. J. Wildl. Res. 14:
- Joubert, E. 1972a. A note on the challenge rituals of territorial male lechwe. Madoqua i:
- 1972b. Activity patterns shown by Hartmann's zebra *Equus zebra hartmannae* in South West Africa with reference to climatic factors. Madoqua Ser. I, No. 5.
- 1972c. The social organization and associated behavior in Hartmann's zebra. Madoqua I:
- Joubert, S. C. J. 1970. A study of the social behavior of the roan antelope, *Hippotragus equinus equinus* (Desmarest, 1804), in the Kruger National Park. M. Sc. thesis, Univ. of Pretoria.
- 1972. Territorial behavior in the tsessebe (*Damaliscus lunatus lunatus* Burchell) in the Kruger National Park. Zool. Afr. 7:
- 1974. The social organization of the roan antelope *Hippotragus equinus*, and its influence on the spatial distribution of herds in the Kruger National Park. In Geist and Walther 1974.
- 1975. The mating behavior of the tsessebe (*Damaliscus lunatus lunatus*) in the Kruger National Park. Z. Tierpsychol. 37:
- 1976. The population ecology of the roan antelope, *Hippotragus equinus equinus* (Desmarest, 1804), in the Kruger National Park. D.Sc. thesis, Univ. of Pretoria.
- Jungius, H. 1971a. The Biology and Behavior of the Reedbuck in the Kruger National Park. Mammalia Depicta. Hamburg: P. Parey.
- 1971b. Studies on the food and feeding behavior of the reedbuck *Redunca aruodinum* Boddaert., 1785 in the Kruger National Park. Koedoe 14:
- Kaplin, B. A. 2002. Terrestriality and the maintained of the disjunct geographical distribution in the *Ihoesti* group. In Glenn and Cords 2002.
- Karstad, E. L., and R. L. Hudson 1986. Social organization and communication of riverine hippopotami in southwest Kenya. Mammalia 50:

- Katsir, Z., and R. M. Crewe 1980. Chemical communication in *Galago crassicaudatus* : investigation of the chest gland secretion. S. Afr. J. Zool. 15:
- Kavanagh, M. 1984. A Complete Guide to Monkeys, Apes and Other Primates. New York: Viking Press.
- Kayanja, I. B. 1989. The reproductive biology of the male hippopotamus. In The Biology of Large African Mammals in Their Environment, ed. P. A. Jewell and G. M. O. Maloiy. Sympos. Zool. Soc. Lond. No. 61. Oxford: Clarendon Press.
- Kellas, L. M. 1955. Observations on the reproductive activities, measurements and growth of the dikdik (*Rhynchotragus kirkii thomasi* Neumann). Proc. Zool. Soc. Lond. 124:
- Kerr, A., and V. J. Wilson 1967. Notes on reproduction in Sharpe's grysbok. Arnoldia 3:
- Ketelhodt, H. F. von 1966. Der Erdwolf, *Proteles cristatus* (Sparman, 1783). Z. Säugetierk. 311:
- 1977. Observations on the lambing interval of the grey duiker, *Sylvicapra grimmia grimmia*. Zool. Aft. 12:
- Kiley, M. 1972. The vocalizations of ungulates, their causation and function. Z. Tierpsychol. 31:
- Kiley-Worthington, M. 1965. The waterbuck (*Kobus defassa*) Rippell 1835 and *K. ellipsiprymnus* Ogilby, 1833) in East Africa: spatial distribution. A study of the sexual behavior. Mammalia 29:
- 1978. The causation, evolution and function of the visual displays of the eland (*Taurotragus oryx*). Behaviour 66:
- Kiltie, R. A. 1985. Evolution and function of horns and hornlike organs in female ungulates. Biol. J. Linn. Soc. 24:
- Kingdon, J. S. 191 East African Mammals, vol. 1 (primates). London and New York: Academic Press.
- 1977. East African Mammals, vol. 3A (carnivores). London and New York: Academic Press.
- 1979. East African Mammals, vol. 3B (large herbivores). London and New York: Academic Press.
- 1980. The role of visual signals and face patterns in African forest monkeys (guenons) of the genus *Cercopithecus*. Trans. Zool. Soc. Lond. 34:
- 1981. Where have the colonists come from? A zoogeographical examination of some mammalian isolates in eastern Africa. Afr. J. Ecol. 19:
- 1982. East African Mammals, vol. 3C and D (bovids). New York: Academic Press.
- Kingston, T. J. 1971. Notes on the black and white colobus monkey in Kenya. E. Afr. Wildl. J. 9:
- Kirchshofer, R. 1963. Das Verhalten der Giraffengazelle, Elanantilope und des Flachlandtapirs bei der Geburt; einige Bemerkungen zur Vermehrungsrate und Generationsfolge. Z. Tierpsychol. 20:
- Kleiman, D. G. 1966. Scent-marking in the Canidae. In Play, Exploration, and Territory in Mammals, ed. P. A. Jewell and A. Loizos. London: Academic Press.
- 1967. Some aspects of social behavior in the Canidae. Amer. Zool. 7:
- 1977. Monogamy in mammals. Quart. Rev. Biol. 52:
- Kleiman, D. G., and J. F. Eisenberg 1973. Comparisons of canid and felid social systems from an evolutionary perspective. Anim. Behav. 21:
- Klein, R. G. 1974. On the taxonomic status, distribution and ecology of the blue antelope, *Hippotragus leucophaeus* (Pallas 1766). Ann. S. Afr. Mus. 65:
- Klingel, H. 1967. Soziale Organisation und Verhalten freilebender Steppenzebras (*Equus quagga*). Z. Tierpsychol. 27:

- 1968. Soziale Organisation und Verhaltensweisen von Hartmann und Bergzebras *Equus zebra hartmannae* und *E. z. zebra*). Z. Tierpsychol. 25:
- 1969. Reproduction in the plains zebra *Equus burchelli boehmi*: behavior and ecological factors. J. Reprod. Fertil., Suppl. 6:
- 1972. Social behavior of African Equidae. Zool. Afr. 7:
- 1974a. A comparison of the social behavior of the Equidae. In Geist and Walther 1974.
- 1974b. Soziale Organisation und Verhalten des Grevy-Zebras. Z. Tierpsychol. 36:
- 1975. Die soziale Organisation der Equiden. Verh. Dtsch. Zool. Ges. 1975.
- 1991. The social organization and behaviour of *Hippopotamus amphibius*. *African Wildlife: Research and Management*. International Council of Scientific Unions.
- Klingel, H., and U. Klingel 1966. Die Geburt eines Zebras (*Equus quagga b6hmi* Matschie). Z. Tierpsychol. 23:
- Kok, O. B. 1975. Behavior and Ecology of the Red Hartebeest (*Alcelaphus buselaphus caama*). Orange Free State, South Africa: Nature Conservation, Misc. Pub. 4.
- Kortlandt, A. 1962. Chimpanzees in the wild. Sci. Am. 206:
- 1967. Experimentation with chimpanzees in the wild. In Neue Ergebnisse der Primatologie, ed. D. Starek, R. Schneider, H.-J. Kubn. Stuttgart: Gustav Fischer. Kralik, 5.
- 1967. Breeding of the caracal lynx at Bmo Zoo. Int. Zoo Yb. 7:
- Kranz, K. R. 1982. A note on the structure of tail hairs from the pygmy hippopotamus (*Choeropsis liberiensis*). Zoo Biology i:
- Kranz, K. R., and S. Lumpkin 1982. Notes on the yellow-backed duiker *Cephalophus sylvicultor* in captivity with comments on its natural history. Int. Zoo Yb. 22:
- Kruuk, H. 1972. The Spotted Hyena. Chicago: Univ. of Chicago Press.
- 1976. Feeding and social behavior of the striped hyena (*Hyaena vulgaris*). E. Afr. Wildl. J. 14:
- 1978. Spatial organization and territorial behavior of the European badger *Meles meles*. J. Zool., Lond. 184:
- 1989. The Social Badger. Oxford: Oxford Univ. Press.
- Kruuk, H., and W. A. Sands 1972. The aardwolf (*Proteles cristatus* Sparrman 1783) as predator of termites. F. Afr. Wildl. J. 10:
- Kuhn, H.-J. 1972. On the perineal organ of male *Procolobus badius*. J. Hum. Evol. i:
- Kummer, H. 1968. Social Organization of Hamadryas Baboons. Chicago: Univ. of Chicago Press.
- Kuroda, S. 1980. Social behavior of the pygmy chimpanzees. Primates 21:
- Kurt, F. 1964. Beobachtungen an den ostafrikanischen Antilopen: *Madoqua kirkii*, *Strepsiceros strepsiceros chora*, *S. imberbis*, *Oryx beisa beisa*, *Gazella soemmeringi erlangi*, *Litocranius walleri*. Vjschr. Naturf. Ges. Ziurich 109:
- Lack, A. 1977. Genets feeding on nectar from Maran thes polyandra in northern Ghana. E. Afr. Wildl. J. 15:
- Lamprecht, J. 1978. On diet, foraging behavior and interspecific food competition of jackals in the Serengeti National Park, East Africa. Z. Säugetierk. 43:
- 1979. Field observations on the behavior and social system of the bat-eared fox (*Otocyon megalotis* Desmarest). Z. Tierpsychol. 52:

- Lamprey, H. F. 1963. Ecological separation of the large mammal species in the Tarangire Game Reserve, Tanganyika. *E. Afr. Wildl. J.* 1:
- Lang, E. M. 1975. *Dos Zwergfiusspferd (Choeropsis liberiensis)*. Wittenberg Lutherstadt: A. Ziemsen Verlag.
- Langley, C. H., and J. H. Giliomee 1974. Behavior of the bontebok (*Damaliscus d. dorcas*) in the Cape of Good Hope Nature Reserve. *J. S. Afr. Wildl. Mgmt. Assn.* 4:
- Langman, V. A. 1977. Cow-calf relationships in giraffe (*Giraffa camelopardalis giraffa*). *Z. Tierpsychol.* 43:
- Lawes, M. J., and M. R. Perrin 1990. Diet and feeding behavior of samango monkeys *Cercopithecus mitis labiatus* in Ngoye Forest, South Africa. *Folio Primatol.* 54:
- Laws, R. M. 1968. Dentition and aging of the hippopotamus. *F. Afr. Wildl.* 1. 6:
- 1969. Aspects of reproduction in the African elephant *Loxodonta africana*. 1. *Reprod. Fertil., Suppl.* 6:
- 1970a. Biology of African elephants. *Sci. Frog., Oxf.* 58:
- 1970b. Elephants as agents of habitat and landscape change in East Africa. *Qikos* 21:
- 1984. Hippopotamuses. In Macdonald 1984a.
- Laws, R. M., and G. Clough 1966. Observations on reproduction in the hippopotamus *Hippopotamus amphibius*. In *Comparative Biology of Reproduction in Mammals*, ed. I. W. Rowlands. London: Academic Press.
- Laws, R. M., I. S. C. Parker, R. C. B. Johnstone 1975. *Elephants and their Habitots*. Oxford: Clarendon Press.
- Lee, P. C. 1979. Coming of age in Amboseli. *Wildlife News* 14(2):
- 1983. Caretaking of infants and mother-infant relationships. In Hinde 1983.
- 1987. Allomothering among African elephants. *Anima. Behav.* 35:
- Lee, P. C., J. Thornback, E. L. Bennett 1988. *Threatened Primates of Africa*. Gland, Switzerland and Cambridge, UK: IUCN.
- Leland, L., and T. T. Struhsaker 1983. The Kibale Forest Project. *Wildlife News* 18(1):
- Leland, L., T. T. Struhsaker, T. M. Butynski 1984. Infanticide by adult males in three primate species of the Kibale Forest, Uganda: a test of hypotheses. In *Infanticide: Comparative and Evolutionary Perspectives*, ed. G. Hausfater and S. B. Hrdy. Hawthorne, N.Y.: Afdine.
- Lent, P. C. 1969. A preliminary study of the Okavango lechwe (*Kobus leche leche* Gray). *E. Afr. Wildl. J.* 7:
- 1974. Mother-infant relationships in ungulates. In Geist and Walther 1974.
- Leuthold, B. M. 1979. Social organization and behavior of giraffe in Tsavo East National Park. *Afr. f. Ecol.* 17:
- Leuthold, B. M., and W. Leuthold 1972. Food habits of giraffe in Tsavo National Park, Kenya. *E. Afr. Wildl. J.* 50:
- 1978a. Daytime activity patterns of gerenuk and giraffe in Tsavo National Park, Kenya. *E. Afr. Wildl. J.* 16:
- 1978b. Ecology of the giraffe in Tsavo East National Park, Kenya. *E. Afr. Wildl. J.* 26:
- Leuthold, W. 1966. Variations in territorial behavior of Uganda kob, *Adenota kob thomasi* (Neumann 1896). *Behaviour* 27:
- 1967. Beobachtungen zum Jugendverhalten von Kob-Antilopen. *Z. Säugetierk.* 32:
- 1970. Observations on the social organization of impala (*Aepyceros melampus*). *Z. Tierpsychol.* 27:
- 1971a. Freilandbeobachtungen an Giraffengazellen (*Litocranius walleri*) im Tsavo-Nationalpark, Kenia. *Z. Säugetierk.* 36:

- 1971b. A note on the formation of food habits in young antelopes. *E. Afr. Wildl. f.* 9:
- 1971c. Studies on the food habits of lesser kudu in Tsavo National Park, Kenya. *E. Afr. Wildl. J.* 9:
- 1977a. African Ungulates. Berlin and New York: Springer Verlag. 1
- 1977b. Spatial organization and strategy of habitat utilization of elephants in Tsavo National Park, Kenya. *Z. Säugetierk.* 42:
- 1977c. A note on group size and composition in the oribi *Ourebia ourebi* (Zimmerman, 1783) (Bovidae). *Säugetierk. Mitt.* 40:
- 1978a. On the ecology of the gerenuk *Litocranius walleri*. *J. Anim. Ecol.* 47:
- 1978b. On social organization and behavior of the gerenuk *Litocranius walleri* (Brooke 1878). *Z. Tierpsychol.* 47:
- 1979. The lesser kudu, *Tragelaphus imberbis* (Blyth 1869). Ecology and behavior of an African antelope. *Säugetierk. Mitt.* 27:
- 1984. The graceful gerenuk. In Macdonald 1984a.
- Leuthold, W., and B. M. Leuthold 1973. Notes on the behavior of two young antelopes reared in captivity. *Z. Tierpsychol.* 32:
- 1975. Patterns of social grouping in ungulates of Tsavo National Park, Kenya. *J. Zool., Lond.* 175:
- Leuthold, W., and J. B. Sale 1973. Movements and patterns of habitat utilization of elephants in Tsavo National Park, Kenya. *E. Afr. Wildl. J.* 11:
- Leyhausen, P. 1979. Cat Behavior, the Predatory and Social Behavior of Domestic and Wild Cats. New York: Garland STPM Press.
- Leyhausen, P., and B. Tonkin 1966. Breeding the black-footed cat, *Felis nigripes*, in captivity. *Int. Zoo Yb.* 6:
- Lindemann, W. 1955. Über die Jugendentwicklung beim Luchs (*Lynx l. lynx* Kerr) und bei der Wildkatze (*Felis s. silvestris* Schreb.). *Behaviour* 8:
- 1957. Reviermarkierung durch den Iltis. *Wild u. Hund* 60:
- Lindeque, M., and J. D. Skinner 1982. Fetal androgens and sexual mimicry in spotted hyenas (*Crocuta crocuta*). *J. Reprod. Fertil.* 67:
- Linley, T. A. 1965. Aardwolf at East London Zoo. *Int. Zoo Yb.* 5:
- Lockie, J. D. 1966. Territory in small carnivores. In *Play, Exploration and Territory in Mammals*, ed. P. A. Jewell and C. Loizos. London: Academic Press.
- Lombard, G. L. 1958. The water montgoose (*Atilax*). *Fauna and Flora Transvaal* 9:
- Lott, D. F. 1974. Sexual and aggressive behavior of mature male American bison. In Geist and Walther 1974.
- Lownids, L. 1956. Antelopes in the Kruger National Park. *Afr. Wild Life* 10:
- Luck, C. P., and P. G. Wright 1964. Aspects of the anatomy and physiology of the skin of *Hippopotamus amphibius* L. *Quart. J. Exp. Physiol.* 16:
- Ludbrook, J. V. 1963. Desertion of a buffalo calf. *Puku* 1:
- Lydekker, R. 1896. A Hand-Book to the Carnivora. London: Lloyd Ltd. 1908. The Game Animals of Africa. London: Rowland Ward.
- Lynch, C. D. 1971. A behavioral study of blesbok, *Damaliscus dorcas phillipsi*, with special reference to territoriality. M. Sc. thesis, Univ. of Pretoria.

- 1980. Ecology of the suricate, *Suricata suricatta*, and yellow montgoose, *Cynictis penicillata*, with special reference to their reproduction. Mem. van die Nasionale Mus., Bloemfontein 14:
- Maberly, C. T. A. 1960. African bushpig. *Animals* 9(10):
- 1962. *Animals of East Africa*. Cape Town: Howard Timrains.
- MacClintock, D. 1973. *A Natural History of Giraffes*. New York: Charles Scribner's Sons.
- Macdonald, D. W. 1978. Observations on the behavior and ecology of the striped hyena, *Hyaena hyaena*, in Israel. *Israel J. Zool.* 27:
- 1979. The flexible social system of the golden jackal, *Canis aureus*. *Behav. Ecol. Sociobiol.* 5:
- 1980. Patterns of scent marking with urine and faeces among carnivore communities. *Symp. Zool. Soc. Lond.* 45:
- 1983. The ecology of carnivore social behavior. *Nature* 301:
- 1984a. *The Encyclopedia of Mammals*. New York: Facts on File.
- 1984b. Carnivores. In Macdonald 1984a.
- 1986. Information in Meerkats United, written and produced by M. Lunz. Bristol: BBC-TV.
- Macdonald, D. 2001. *The Encyclopedia of Mammals*. Barnes and Noble Books, New York. Guenons, macaques, and baboons, pp 356-377
- _____ (ed) 2001. *The Encyclopedia of Mammals*. Barnes & Noble Books, New York. Carnivores: pp 3-145.
- Macdonald, D. W., and C. F. Mason 1980. Observations on the marking behavior of a coastal population of otters. *Acta Theriologica* 25:
- Macdonald, D. W., and P. Moehlman 1983. Cooperation, altruism, and restraint in the reproduction of carnivores. In *Perspectives in Ethology*, ed. P. P. G. Bateson and P. Klopfer. New York: Plenum.
- MacKinnon, J. 1978. *The Ape within Us*. London: Collins.
- 1984. Orangutan. In Macdonald 1984a.
- Maddock, L. 1979. The "migration" and grazing succession. In *Serengeti: Dynamics of an Ecosystem*, ed. A. R. E. Sinclair and M. Norton-Griffiths. Chicago: Univ. of Chicago Press.
- Maglio, V. J. 1978. Patterns of faunal evolution. In Maglio and Cooke 1978.
- Maglio, V. J., and H. B. S. Cooke, eds. 1978. *Evolution of African Mammals*. Cambridge: Harvard Univ. Press.
- Maier, V., O. A. E. Rasa, H. Scheich 1983. Call-system similarity in a ground-living social bird and a mammal in the bush habitat. *Behav. Ecol. Sociobiol.* 12:
- Malcolm, J. R. 1980. Food caching by African wild dogs *Lycaon pictus*. *J. Mamm.* 61:
- 1984a. The bat-eared fox--an insect eater. In Macdonald 1984a.
- 1984b. A "back-to-front" social system. In Macdonald 1984a.
- 1986. Socio-ecology of bat-eared foxes, *Otocyon megalotis*. *J. Zool., Lond. (A)* 208:
- Malcolm, J. R., and H. Van Lawick 1975. Notes on wild dogs hunting zebras. *Mammalia* 39:
- Marler, P. 1965. Communication in monkeys and apes. in DeVore 1965.
- 1972. Vocalizations of East African monkeys 2: black and white colobus. *Behaviour* 42:

- 1973. A comparison of vocalizations of red-tailed monkeys and blue monkeys, *Cercopithecus ascanius* and *C. mitis*, in Uganda. *Z. Tierpsychol.* 33:
- 1976. Social organization, communication and graded signals: the chimpanzee and the gorilla. In *Growing Points in Ethology*, ed. P. P. G. Bateson and R. A. Hinde. Cambridge: Cambridge Univ. Press.
- 1980. Vocal ethology of primates. In *Recent Advances in Primatology*, ed. D. J. Chivers and J. Herbert. London and New York: Academic Press.
- 1978b. Monkey calls: how are they perceived and what do they mean? In *Advances in the Study of Mammalian Behavior*, ed. J. F. Eisenberg and D. G. Kleiman, Spec. Pub. No. 7, Am. Soc. Mammal.
- Marler, P., and R. Tenaza 1977. Signaling behavior of apes with special reference to vocalization. In *Sebeok 1977*.
- Martin, E. Bradley, and C. Bradley Martin 1987. Combatting the illegal trade in rhinoceros products. *Oryx* 21:
- Martin, R. D. 1990. *Primate Origins and Evolution: A Phylogenetic Reconstruction*. Princeton: Princeton Univ. Press.
- Martin, R. D., G. A. Doyle, A. C. Walker, eds. 1974. *Prosimian Biology*. Pittsburgh: Univ. of Pittsburgh Press.
- Mason, D. R. 1976. Some observations on social organisation and behavior of springbok in the Jack Scott Nature Reserve. *S. Afr. I. Wildl. Res.* 6:
- 1986. Reproduction in the male warthog *Phacochoerus aethiopicus* from Zululand, South Africa. *S. Afr. J. Zool.* 21:
- Matthews, L. H. 1939a. Reproduction in the spotted hyena, *Crocuta crocuta* (Erxl.). *Philos. Trans.* 230:
- 1939b. The bionomics of the spotted hyena, *Crocuta crocuta*. *Proc. Zool. Soc. Lond.* 109:
- Maxwell, G. 1960. *Ring of Bright Water*. London: Longmans.
- 1963. *The Rocks Remain*. New York: Dutton.
- McGrew, W. 1979. Evolutionary implications of sex differences in chimpanzee predation and tool use. In *Hamburg and McCown 1979*.
- MeKey, D. 1978. Soils, vegetation, and seed-eating by black colobus monkeys. In *Montgomery 1978*.
- McLaughlin, R. T. 1970. Aspects of the biology of cheetahs *Acinonyx jubatus* (Schreber) in Nairobi National Park. M. Sc. thesis, Univ. of Nairobi.
- McNaughton, S. J. 1976. Serengeti migratory wildebeest: facilitation of energy flow by grazing. *Science* 191:
- 1985. Ecology of a grazing ecosystem: the Serengeti. *Ecol. Mon ogr.* 55:
- McNaughton, S. J., and N. J. Georgiadis 1986. Ecology of African grazing and browsing mammals. *Ann. Rev. Ecol. Syst.* 17:
- McVittie, R. 1979. Changes in the social behavior of South West African cheetah. *Madoqua* 11:
- Meinertzhagen, R. 1938. Some weights and measurements of large mammals. *Proc. Zool. Soc. Lond.* 208:
- Mendelssohn, H. 1974. The development of the populations of gazelles in Israel and their behavioral adaptations. In *Geist and Walther 1974*.
- Mentis, M. T. 1970. Estimates of natural biomasses of large herbivores in the Umfolozi Game Reserve area. *Mammalia* 34:
- Meyer, G. E. 1978. Hyracoidea. In *Maglio and Cooke 1978*.
- Millais, J. G. 1899. *A Breath of the Veldt*. London: Henry Sotteran.
- Miller, M.E. 1955. *Guide to the Dissection of the Dog*, 3rd Edition. Ithaca, NY: Cornell Univ.

- Mills, M. G. L. 1993 The brown hyena. Aft. Wild Life 27:
- 1976. Ecology and behavior of the brown hyena in the Kalahari with some suggestions for management. In Proc. Syrup. Endangered Wildl. Pretoria: Endangered Wildlife Trust.
- 1978. The comparative socio-ecology of the Hyaenidae. Carnivore i:
- 1982a. Factors affecting group size and territory size of the brown hyena, *Hyaena brunnea*, in the southern Kalahari. J. Zool. Soc., Lond. 198:
- 1982b. The mating system of the brown hyena, *Hyaena brunnea*, in the southern Kalahari. Behav. Ecol. Socio.
- 1983. Behavioral mechanisms in territory and group maintenance of the brown hyena, *Hyaena brunnea*, in the southern Kalahari. Anim. Behav. 31:
- 1984. The comparative behavioral ecology of the brown hyena *Hyaena brunnea* and the spotted hyena *Crocuta crocuta* in the southern Kalahari. Koedoe Suppl.
- 1985. Related spotted hyenas forage together but do not cooperate in rearing young. Nature (Lond.) 316:
- 1987. The scent-marking behavior of the spotted hyena in the southern Kalahast, South Africa. /. Zool., Lond. 212:
- 1989. The comparative behavioral ecology of hyenas: the importance of diet and food dispersion. In Carnivore Behavior, Ecology, and Evolution, ed. J. L. Gittleman. Ithaca, N.Y.: Cornell Univ. Press.
- 1990. Kalahari Hyenas: Comparative Behavioral Ecology of Two Species. London: Unwin Hyman.
- Mills, M. C. L., M. L. Gorman, M. E. J. Mills 1980. The scent marking behavior of the brown hyena, *Hyaena brunnea*. S. Afr. J. Zool. 15:
- Mills, M. G. L., and M. E. J. Mills 1978. The diet of the brown hyena, *Hyaena brunnea*. Koedoe 21:
- Mitchell, A. 1977. Preliminary observations on the daytime activity patterns of lesser kudu in Tsavo National Park, Kenya. E. Afr. Wildl. J. 15:
- Mitchell, B. L., J. B. Sheriton, J. C. Uys 1965. Predation of large mammals in the Kafue National Park, Zambia. Zool. Afr. i:
- Mitchell, B. L., and J. M. C. Uys 1961. The problem of the lechwe (*Kobus leche*) on the Kafue Fiats. Oryx 6:
- Mittermeyer, R. A., and J. G. Fleagle 1976. The locomotor and postural repertoires of *Ateles geoffroyi* and *Colobus guereza*, and a reevaluation of the locomotor category semibrachiation. Am. J. Phys. Anthropol. 45:
- Mloszewski, M. J. 1983. The Behavior and Ecology of the African Buffalo. Cambridge: Cambridge Univ. Press.
- Moehlman, P. D. 1978. Jackals of the Serengeti. Wildlife News 13(3):
- 1979. Jackal helpers and pup survival. Nature 277:
- 1983. Socioecology of silverbacked and golden jackals (*Canis mesomelas* and *Canis aureus*). In Advances in the Study of Mammalian Behavior, ed. J. F. Eisenberg and D. G. Kleiman. American Soc. of Mammalogists, Special Pub.
- 1984. Jackals. In Macdonald 1984a.
- 1986. Ecology of cooperation in canids. In Rubenstein and Wrangham 1986.
- Mohr, E. 1960. Wilde Schweine. Neue Brehm-Buicherei, Heft 247. Wittenberg: A. Ziemsen Verlag.
- Monfort, A. 1974. Quelques aspects de la biologie des phacocheres, *Phacochoerus aethiopicus*, au Parc National de l'Akagera, Rwanda. Mammalia 38:

- Monfort, A., and N. Monfort 1974. Notes sur l'écologie et le comportement des oribis (*Ourebia ourebi* Zimmermann, 1783). *Terre Vie* 28:
- Monfort-Braham, N. 1974. Contribution à l'étude des structures sociales et du comportement des ongulés du Parc National de l'Akagera, 26^{me} Partie, l'impala. Univ. Liege.
- 1975. Variations dans la structure sociale du topi, *Damaliscus korrigum* Ogilby, au Parc National de l'Akagera, Rwanda. *Z. Tierpsychol.* 39:
- Montgomery, C. G., ed. 1978. *The Ecology of Arboreal Folivores*. Washington, D.C.: Smithsonian Institution Press.
- Moore, J., and R. Ali 1984. Are dispersal and inbreeding avoidance related? *Anim. Behav.* 32:
- Moreau, R. E. 1944. Kilimanjaro and Mount Kenya: some comparisons with particular reference to the mammals and birds. *Tanganyika Notes and Records* 18:
- Moreno-Black, G. S., and W. R. Maples 1977. Differential habitat utilization of four Cercopithecidae in a Kenyan forest. *Folia Primatol.* 27:
- Morin, P. A., Moore, J. J., Chakraborty, R., Jin, L., Goodall, J., and Woodruff, D. S. 1994. Kin selection, social structure, gene flow, and the evolution of chimpanzees. *Science* 265
- Mortimer, M. A. E. 1963. Notes on the biology and behavior of the spotted-necked otter (*Lutra maculicollis*). Puku x:
- Moss, C. J. 1975. *Portraits in the Wild*. Boston: Houghton Mifflin.
- 1983. Estrous behavior and female choice in the African elephant. *Behaviour* 86:
- 1988. *Elephant Memories*. London: Elm Tree Books.
- Moss, C. J., and J. Poole 1983. Relationships and social structure of African elephants. In Hinde 1983.
- Mfihlenberg, M., and H. H. Roth 1985. Comparative investigations into the ecology of the kob antelope *Kobus kob kob* (Erxleben, 1777) in the Camoë National Park, Ivory Coast. *S. Afr. J. Wildl. Res.* 215: :
- Miiller, H. 1970. Beitrage zur Biologie des Hermelins. *Säugetierk. Mitt.* 18: 293380. Mungall, E. C.
- 1980. Courtship and mating behavior of the dama gazelle (*Gazella dama* Pallas 1766). *Zool. Gart. NF, Jena* 50:
- Murray, M. G. 1981. Structure of association in impala, *Aepyceros melampus*. *Behav. Ecol. Sociobiol.* 9:.
- 1982a. Home range, dispersal and the clan system of impala. *Afr. J. Ecol.* 20:
- 1982b. The rut of impala: aspects of seasonal mating under tropical conditions. *Z. Tierpsychol.* 59:
- 1984. Grazing antelopes. In Macdonald 1984a.
- Myers, N. 1975. *The cheetah, Acinonyx jubatus, in Africa*. Morges, Switzerland: IUCN Monograph no. 4.
- 1976. Status of the leopard and cheetah in Africa. In *World's Cats* 3:
- Napier, J. R., and P. H. Napier 1967. *A Handbook of Living Primates*. London: Academic Press. -, eds.
- 1970. *Old World Monkeys*. New York: Academic Press.
- Napier-Bax, P., and ID. L. W. Sheldrick 1963. Some preliminary observations on the food of elephant in the Tsavo Royal National Park (East) of Kenya. *E. Afr. Wildl. J.* i:
- Nash, L. T., and C. S. Harcourt. 1986. Social organization of galagos in Kenyan coastal forests: 2. *Galago garnetti*. *Am. J. Primat.* 10:
- Neal, E. 1970. The banded mongoose. *Mungo Gmelin*. *E. Afr. Wildl. J.* 8:

- Neaves, W. B., I. E. Griffin, J. ID. Wilson 1980. Sexual dimorphism of the phallus in spotted hyaena (*Crocuta crocuta*). J. Zool., Lond. 187:
- Nel, J. A. J. 1978. Notes on the food and foraging behavior of the bat-eared fox *Otocyon megalotis*. Bull. Carnegie Mus. Nat. Hist. 6:
- Nel, J. A. J., and M. H. Bester 1983. Communication in the southern bat-eared fox *Otocyon m. megalotis* (Desmarest, 1822). Z. Sdiugetierk. 48:
- Nel, J. A. J., and J. du P. Bothma 1983. Scent marking and midden use by aardwolves (*Proteles cristzatus*) in the Namib Desert. Afr. J. Ecol. 21:
- Nishida, T. 1968. The social group of chimpanzees of the Mahali Mountains. Primates 9:
- Nishida, T. and M. Hiraiwa-Hasegawa 1986. Chimpanzees and bonobos: cooperative relationships among males. In Primate Societies, ed. B. Smuts, D.L. Cheney, R.M. Seyfarth, R.W. Wrangham, T.T. Struhsaker. Chicago: Univ. of Chicago Press.
- Norris, J. 1988. Diet and feeding behavior of semi-free ranging mandrills in an enclosed Gabonais forest. Primates 29:
- Norton, P. M. 1980. The habitat and feeding ecology of the klipspringer *Oreotragus oreotragus* (Zimmermann, 1783) in two areas of the Cape Province. M. Sc. thesis, Univ. of Pretoria.
- 1981. Activity patterns of klipspringers in two areas of the Cape Province. S. Afr. J. Wildl. Res. II:
- 1984. Food selection by klipspringers in two areas of the Cape Province. S. Afr. J. Wildl. Res. 14:
- Novellie, P. A. 1979. Courtship behavior of the blesbok (*Damaliscus dorcas phillipsi*). Mammalia 43:
- Norton, P.M., and S.R. Henley 1987. Home range and movements of male leopards in the Cedarberg Wilderness Area, Cape Province, South Africa. S. Afr./I. Wildl. Res. 17:
- Nowak, R. M., and J. L. Paradiso 1983. Walker's Mammals of the World, 4th edition. Baltimore: Johns Hopkins Univ. Press.
- Oates, J. F. 1977a. The social life of a black and white colobus monkey, *Colobus guereza*. Z. Tierpsychol. 45:
- 1977b. The guereza and its food. In Primate Ecology, ed. T. H. CluttonBrock. London: Academic Press.
- Oates, J. F., Bocian, C. M., and Terranova, C. J. (2000). The loud calls of black-and-white colobus monkeys: their adaptations and taxonomic significance in light of new data. In Whitehead, P. F., and Jolly, C. J. (eds.), Old World Monkeys, Cambridge University Press, Cambridge, U.K.
- Oates, J. F., and Trocco, T. F. (1983). Taxonomy and phylogeny of black-and-white colobus monkeys. Inferences from an analysis of loud call variation. Folia Primatol. 40:
- O'Brien, S. J., M. E. Roelke, L. Marker, et al. 1985. Genetic basis for species vulnerability in the cheetah. Science 227:
- O'Connor, T. G., and B. M. Campbell 1986. Hippopotamus *Hippopotamus amphibius* habitat relationships on the Lundi River, Gonarezhou National Park, Zimbabwe. Afr. I. Ecol. 24:
- Oliver, M.D. N., N. R. M. Short, J. Ranks 1978. Population ecology of oribi, gray rhebuck and mountain reedbuck in Highmoor State Forest Land, Natal. S. Afr. J. Wildl. Res. 8:
- Olivier, R. C. D., and W. A. Laurie 1974. Habitat utilization by hippopotamuses in the Mara River. E. Afr. Wildl. J. 12:
- O'Regan, B. P. 1984. Gazelles and dwarf antelopes. In Macdonald 1984a.
- Owen, J. 1973. Behavior and diet of a captive royal antelope, *Neotragus pygmaeus* L. Mammalia 37:
- Owen, R. E. A. 1970. Some observations of the sitatunga in Kenya. E. Afr. Wildl. J. 8:

- Owen-Smith, N. and S. M. Cooper 1987. Palatability of woody plants to browsing ruminants in a South African savanna. *Ecology* 68:
- Owen-Smith, R. N. 1973. The behavioral ecology of the white rhinoceros. Ph.D. thesis, Univ. of Wisconsin.
- 1974. The social system of the white rhinoceros. In Geist and Walther 1974.
- 1975. The social ethology of the white rhinoceros *Ceratotherium simum* (Burcheil 1817). *Z. Tierpsychol.* 38:
- 1977. On territoriality in ungulates and an evolutionary model. *Q. Rev. Biol.* 53:
- 1979. Assessing the foraging efficiency of a large herbivore, the kudu. *S. Afr. Wildl. Res.* 9:
- 1984a. Spatial and temporal components of the mating systems of kudu bulls and red deer stags. *Anima. Behav.* 32:
- 1984b. Rhinoceroses. In Macdonald 1984a.
- 1988. The Influence of Very Large Body Size on Ecology. New York: Cambridge Univ. Press.
- Owens, D. D., and M. J. Owens 1979. Communal denning and clan associations in brown hyenas (*Hyaena brunnea* Thunberg) of the Central Kalahari Desert. *Afr. J. Ecol.* 17:
- Owens, M. J., and D. D. Owens 1978. Feeding ecology and its influence on social organization in brown hyenas (*Hyaena brunnea* Thunberg) of the Central Kalahari Desert. *E. Afr. Wildl. J.* 16:
- 1984. Cry of the Kalahari. Boston: Houghton Mifflin.
- Packer, C. 1979. Inter-troop transfer and inbreeding avoidance in *Papio anubis*. *Anim. Behav.* 27:
- 1983. Sexual dimorphism: the horns of African antelopes. *Science* 221:
- 1985. Dispersal and inbreeding avoidance. *Anima. Behav.* 33:
- 1986. The ecology of sociality in felids. In *Ecological Aspects of Social Evolution*, ed. D. I. Rubenstein and R. Wrangham. Princeton: Princeton Univ. Press.
- Packer, C., L. Herbst, A. Pusey, et al. 1988. Reproductive success of lions. In *Reproductive Success*, ed. T. H. CluttonBrock. Chicago: Univ. of Chicago Press.
- Packer, C., and A. E. Pusey 1982. Cooperation and competition within coalitions of male lions: kin selection or game theory? *Nature* 296:
- 1983a. Male takeovers and female reproductive parameters: a simulation of oestrous synchrony in lions (*Pan theria leo*). *Anim. Behav.* 31:
- 1983b. Adaptations of female lions to infanticide by incoming males. *Am. Nat.* 121:
- 1983c. Cooperation and competition in lions. *Nature* 302:
- 1984. Infanticide in carnivores. In *Infanticide: Comparative and Evolutionary Perspectives*, ed. G. Hausfater and S. B. Hrdy.. Hawthorne, N.Y.: Aldine.
- Pariante, G. 1979. The role of vision in prosimian behavior. In Doyle and Martin 1979.
- Payne, K. B., W. R. Langbauer, Jr., E. M. Thomas 1986. Infrasonic calls of the Asian elephant (*Elephas maximus*). *Behav. Ecol. Sociobiol.* 18:
- Pellew, R. A. 1984a. Giraffe and okapi. In Macdonald 1984a.
- 1984b. The feeding ecology of a selective browser, the giraffe (*Girafa camelopardalis*). *J. Zool., Lond.* 202:

- Penzhorn, B. L. 1979. Social organization of the Cape mountain zebra *Equus z. zebra* in the Mountain Zebra National Park. *Koedoe* 22:
- 1984. A long-term study of social organization and behavior of Cape mountain zebras *Equus zebra zebra*. *Z. Tierpsychol.* 64:
- Perry, J. 5. 1953. The reproduction of the African elephant, *Loxodonta africana*. *Phil. Trans. Roy. Soc. Lond. Ser. B. Biol. Sci.* 237:
- Peterson, D. and K. Ammann 2003. *Eating Apes*. University of California Press, Berkeley.
- Petter, J.-J., and P. Charles-Dominique 1979. Vocal communication in prosimians. In Doyle and Martin 1979.
- Petter, J.-J., and A. Petter-Rousseaux 1979. Classification of the prosimians. In Doyle and Martin 1979.
- Pienaar, U. de V. 1964. The small mammals of the Kruger National Park, a systematic list and zoogeography. *Koedoe* 7: i :
- 1969a. Observations on developmental biology, growth and some aspects of the population ecology of African buffalo in the Kruger National Park. *Koedoe* 12:
- 1969b. Predator-prey relationships amongst the larger mammals of the Kruger National Park. *Koedoe* 12:
- Pierce, A. H. 1978. Ranging patterns and associations of a small community of chimpanzees in Gombe National Park, Tanzania. In *Recent Advances in Primatology*, vol. I, ed. D. C. Chivers and J. Herbert. New York: Academic Press.
- Pilbeam, D. 1984. The descent of hominoids and hominids. *Sci. Am.* 250: 8496. Pitman, C. R. S.
- 1954. African genets and mongooses. *Zoo Life (London)* 9: 912.
- Plooi, F. X. 1978. Tool use during chimpanzees' bushpig hunt. *Carnivore* x:
- Poche, R. M. 1974. Notes on the roan antelope (*Hippotragus equinus* [Desmarest]) in West Africa. *J. Appl. Ecol.* ii:
- Pocock, R. I. 1908. Warning coloration in the musteline Carnivora. *Proc. Zool. Soc. Lond. (May-Dec.)*:
- 1910. On the specialized cutaneous glands of ruminants. *Proc. Zool. Soc. Lond.*
- 1915. On the feet and glands and other external characters of the Viverrinae, with the description of a new genus. *Proc. Zool. Soc. Lond.*
- 1916. On the external characters of the mongooses (Mungotidae). *Proc. Zool. Soc. Lond.*
- 1918. On some external characters of ruminant Artiodactyla. *Ann. Mag. Nat. Hist.* 9:
- 1920. On the external characters of the ratel (*Mellivora*) and the wolverine (*Gulo*). *Proc. Zool. Soc. Lond.*
- 1921a. On the external characters and classification of the Mustelidae. *Proc. Zool. Soc. Lond.*
- 1921b. The external characters and classification of the Procyonidae. *Proc. Zool. Soc. Lond.*
- 1927. The external characters of the South African striped weasel (*Poecilogale albinucha*). *Proc. Zool. Soc. Lond.*
- Poole, J. H. 1987. Elephants in musth, lust. *Nat. Hist. Nov.*
- 1989. Mate guarding, reproductive success and female choice in African elephants. *Anima. Behav.* 37:
- Poole, J. H., and C. J. Moss 1981. Musth in the African elephant (*Loxodonta africana*). *Nature* 292:

- Poole, J. H., K. Payne, W. R. Langbauer, Jr., C. J. Moss 1988. The social contexts of some very low frequency calls of African elephants. *Behav. Ecol. Sociobiol.* 22:
- Poole, T. B. 1966. Aggressive play in polecats. In *Play, Exploration and Territory in Mammals*, ed. P. A. Jewell and C. Loizos. London: Academic Press.
- 1967. Aspects of aggressive behavior in polecats. *Z. Tierpsycho.* 24:
- Poppleton, F. 1957. An elephant birth. *Afr. Wild Life* ii:
- Posselt, J. 1963. The domestication of the eland. *Rhod. J. Agric. Res.* i:
- Powell, R. A. 1979. Mustelid spacing patterns: variations on a theme by *Mustela*. *Z. Tierpsychol.* 50:
- Prater, S. H. 1966. *The Book of Indian Animals*. Bombay: Bombay Natural History Society.
- Pratt, D., and V. H. Anderson 1982. Giraffe cow-calf relationships and social development of the calf in the Serengeti. *Z. Tierpsychol.* 51:
- Preston, F. W. 1950. Mongoose luring guineafowl. *Mamm.* 31:
- Pringle, J. A., and V. L. Pringle 1979. Observations on the lynx (*Felis caracal*) in the Bedford district. *Suid-Afrikaanse Tydsk. Dierkunde* 14:
- Prins, H. 1987. The buffalo of Manyara. Ph.D. thesis, Rijks Univ. Groningen.
- Procter, J. 1963. A contribution to the natural history of the spotted necked otter (*Lutra maculicollis* Lichtenstein) in Tanganyika. *E. Afr. Wildl. J.* i:
- Pusey, A., and C. Packer 1987. Philopatry and dispersal in lions. *Behaviour* Lou:
- Quris, R. 1980. Emission vocale de forte intensité chez *Cercocebus galeries agilis*: structure, caractéristiques spécifiques et individuelles, modes d'émission. *Mammalia* 44:
- Racey, P. A., and J. D. Skinner 1991. Endocrine aspects of sexual mimicry in spotted hyenas, *Crocuta crocuta*. *J. Zool., Lond.* 187:
- Rahm, U., and A. Christiaensen 1963. Les mammifères de la région occidentale du Lac Kivu. *Ann. Mus. Roy. Afr. Centr. Ser. 8, Sci. Zool.* 118:
- Rails, K. 1974. Scent marking in captive Maxwell's duikers. In Geist and Walther 1974.
- 1975. Agonistic behavior in Maxwell's duiker, *Cephalophus maxwelli*. *Mammalia* 39:
- Rails, K., and K. R. Kranz 1984. Duikers. In Macdonald 1984a.
- Randall, R. M. 1979. Perineal gland markings by free-ranging African civets *Civettictis civetta*. *J. Mamm.* 60:
- Ransom, T. W. 1981. *Beach Troop of the Cornbe*. Lewisburg, Pa.: Bucknell Univ. Press.
- Ransom, T. W., and B. S. Ransom 1971. Adult male-infant relations among baboons (*Papio anubis*). *Folia Primatol.* 16:
- Rasa, O. A. E. 1977. The ethology and sociology of the dwarf mongoose (*Helogale undulata rufula*). *Z. Tierpsychol.* 43:
- 1983. Dwarf mongoose and hornbill mutualism in the Tamn Desert, Kenya. *Behav. Ecol. Sociobiol.* 12:
- 1986. *Mongoose Watch: A Family Observed*. Garden City, N.Y.: Doubleday.
- Rasmussen, D. R. 1979. Correlates of patterns of range use of a troop of yellow baboons (*Papio cynocephalus*), i: Sleeping sites, impregnable females, births, and male emigrations and immigrations. *Anim. Behav.* 27:
- Rasmussen, K. L. R. 1983. Influence of affiliative preferences upon the behavior of male and female baboons during sexual consortships. In Hinde 1983.

- Rau, R. E. 1983. The colouration of the extinct Cape Colony quagga. *Afr. Wildl.* 37:
- Rautenback, I. L., and J. A. J. Nel 1978. Coexistence in Transvaal Carnivora. *Bull. Carnegie Mus. Nat. Hist.* 6:
- Rees, W. A. 1978. Do the dams spell disaster for the Kafue lechwe? *Oryx* 14:
- Reich, A. 1978. A case of inbreeding in the African wild dog *Lycaon pictus* in the Kruger National Park, South Africa. *Koedoe* 21:
- 1981. The behavior and ecology of the African wild dog (*Lycaon pictus*) in the Kruger National Park. Ph.D. thesis, Yale Univ.
- Rensch, B., and G. Duicker 1959. Die Spiele von Mungo und Ichneumon. *Behaviour* 14:
- Reuther, R. T. 1964. The bongo (*Taurotragus eurycerus*) with notes on captive animals. *Zool. Gart. (NF)* 28:
- Reynolds, V. 1965. Budon go: An African Forest and Its Chimpanzees. Garden City, N.Y.: Natural History Press.
- 1967. The Apes. The Gorilla, Chimpanzee, Orangutan, and Gibbon--Their History and Their World. New York: E. P. Dutton.
- Reynolds, V., and F. Reynolds 1965. Chimpanzees of the Budongo Forest. In DeVore 1965.
- Richard, A. 1985. Primates in Nature. New York: W. H. Freeman.
- Richard, P. B. 1964. Notes sur la biologie du daman des arbres *Dendrohyrax dorsalis*. *Biologica Gabonica* 1:
- Richardson, P. K. R. 1987a. Food consumption and seasonal variation in the diet of the aardwolf *Proteles cristatus* in Southern Africa. *Z. Säugetierk.* 52:
- 1987b. Aardwolf mating system: overt cuckoldry in an apparently monogamous mammal. *S. Afr. J. Sci.* 83:
- Richardson, P. K. R., and S. K. Bearder 1984. The hyena family. In Macdonald 1984a.
- Riche, M. le 1970. Birth of an oribi. *Africana* 4:
- Richter, J. 1971. Untersuchungen an Antorbitaldrüsen von Mado qua {Bovidae, Mammalia}. *Z. Säugetierk.* 36:
- 1973. Zur Kenntnis der Antorbitaldrüsen der Cephalophinae (Bovidae, Mammalia). *Z. Säugetierk.* 38:
- Richter, W. von 1971. Past and present distribution of the black wildebeest, *Connochaetes gnou* Zimmermann {Artiodactyla: Bovidae}, with special reference to the history of some herds in South Africa. *Ann. Transvaal Mus.* 27:
- 1972. Territorial behavior of the black wildebeest, *Connochaetes gnou*. *Zool. Afr.* 7:
- 1974. *Connochaetes gnou*. *Mammal. Species* no. 50.
- Ridley, M. 1986. The number of males in a primate troop. *Anim. Behav.* 34:
- Rieger, I. 1979. A review of the biology of striped hyenas, *Hyaena hyaena* (Linnd, 1758). *Säugetierk. Mitt.* 27:
- Riney, T., and G. Child 1960. Breeding season and aging criteria for the common duiker, *Sylvicapra grimmia*. *Proc. First Fed. Cong. Salisbury*.
- Robinette, W. L. 1963. Weights of some of the larger mammals of Northern Rhodesia. *Puku* 1:
- Robinette, W. L., and G. Child 1964. Notes on biology of lechwe (*Kobus leche*). *Puku* 2:
- Rode, P. 1943-44. Mammifères ongulés de l'Afrique Noire, 2 vols. Paris: Libraire Larose.
- Rodgers, W. A., and I. Swai 1988. Tanzania. In East 1988.

- Roeder, J. J. 1978. Marking behavior in genets *Genetta genetta*: seasonal variations and relation to social status in males. *Behaviour* 67:
- 1980. Marking behavior and olfactory recognition in genets (*G. genetta* L.: Carnivora: Viverridae). *Behaviour* 72:
- Roeder, J. J., and B. Pallaud 1980. Ontogenese des comportements alimentaires de predation chez trois genettes (*Genetta genetta* L.) nées et élevées en captivité et de la mère. *Mammalia* 44:
- Romer, A. S. 1955. *The Vertebrate Body*. Philadelphia: Saunders. 1959. *The Vertebrate Story*. Chicago: Univ. of Chicago Press.
- Rood, J. P. 1974. Banded mongoose males guard young. *Nature* 248:
- 1975. Population dynamics and food habits of the banded mongoose. *E. Afr. Wildl.* 1. 13:
- 1978. Dwarf montgoose helpers at the den. *Z. Tierpsychol.* 48:
- 1979. The social life of dwarf mongooses in the Serengeti. *Wildlife News* 14(1):
- 1980. Mating relationships and breeding suppression in the dwarf mongoose *Helogale parvula*. *Anim. Behav.* 28:
- 1983a. The social system of the dwarf mongoose. In *Advances in the Study of Mammalian Behavior*, ed. J. F. Eisenberg and D. G. Kleiman. Special Publ. No. 7, American Society of Mammalogists.
- 1983b. Banded mongoose rescues pack member from eagle. *Anita. Behav.* 31:
- 1986. Ecology and social evolution in the mongooses. In Rubenstein and Wrangham 1986.
- 1989. Male association in a solitary mongoose. *Anima. Behav.* 38:
- 1990. Group size, survival, reproduction, and routes to breeding in dwarf mongooses. *Anima. Behav.* 39:
- Rood, J. P., and P. M. Waser 1978. The slender mongoose *Herpestes sanguineus* in the Serengeti, Tanzania. *Carnivore* 1:
- Rood, J. P., and W. C. Wozencraft 1984. Mongooses. In Macdonald 1984a.
- Roosevelt, T. 1910. *African Caine Trails*. London: Charles Scribner's Sons.
- Roosevelt, T., and E. Heller 1914. *Life-Histories of African Game Animals*. New York: Charles Scribner's Sons.
- Rose, M. D. 1978. Feeding and associated positional behavior of black and white colobus monkeys (*Colobus guereza*) In Montgomery 1978.
- Rosenberg, H. 1971. Breeding the bat-eared fox, *Otocyon megalotis*, at Utica Zoo. *Int. Zoo Yb.* 11:
- Rosevear, D. R. 1974. *The Carnivores of West Africa*. London: Trustees of British Museum (Natural History).
- Rowell, T. E. 1966. Forest-living baboons in Uganda. *J. Zool., Lond.* 149:
- 1967. Variability in the social organization of primates. In *Primate Ethology*, ed. D. Morris. London: Weidenfeld and Nicolson.
- 1970. Reproductive cycles of two Cercopithecus monkeys. *J. Reprod. Fertil.* 22:
- 1972. *Social Behavior of Monkeys*. Harmondsworth, Middlesex: Penguin Books.
- Rowell, T. E., and J. M. Hartwell 1978. The interaction of behavior and reproductive cycles in patas monkeys. *Behav. Biol.* 24:
- Rowe, N. 1996. *The Pictorial Guide to the Living Primates*, Pogonias Press, New York.
- Rowe-Rowe, D. T. 1972. The African weasel, *Poecilogale albinucha* (Gray), in southern Africa. *Lammerqeyer* 15:

- 1977a. Prey capture and feeding behavior of South African otters. *Lammergeyer* 23:
- 1977b. Variations in the predatory behavior of the clawless otter. *Lammergeyer* 23:
- 1977c. Food ecology of otters in Natal, South Africa. *Oikos* 28:
- 1978a. Comparative prey capture and food studies of South African mustelines. *Mammalia* 42:
- 1978b. The small carnivores of Natal. *Lammergeyer* 25:
- 1978 c. Reproduction and post-natal development of South African mustelines (Carnivora: Mustelidae). *Zool. Afr.* 13:
- Rowe-Rowe, D. T., and R. C. Bigalke 1972. Observations on the breeding and behavior of blesbok. *Lammergeyer* 15:
- Rowe-Rowe, D.T. 1983. Black-backed jackal diet in relation to food availability in the Natal Drakensberg. *S. Afr. J. Wildl. Res.* 13:
- Rubenstein, D. I. 1986. Ecology and sociality in horses and zebras. In Rubenstein and Wrangham 1986.
- Rubenstein, D. I., and R. W. Wrangham, eds. 1986. *Ecological Aspects of Social Evolution*. Princeton: Princeton Univ. Press.
- Rudnai, J. 1973. Reproductive biology of lions (*Panthera leo massaica* Neumann) in Nairobi National Park. *E. Afr. Wildl. J.* II:
- Rudran, R. 1978. Socioecology of the blue monkeys (*Cercopithecus mitis stuhimanni*) of the Kibale Forest, Uganda. *Smiths. Contrib. Zoo*.
- Rue, L. L. 1967. *Pictorial Guide to the Mammals of North America*, New York: T. Y. Crowell.
- Saayman, G. S. 1971. Baboons' response to predators. *Afr. Wild Life* 25:
- Sabater Pi, J. 1977. Contribution to the study of alimentation of lowland gorillas in the natural state, in Rio Muni, Republic of Equatorial Guinea (West Africa). *Primates* 18:
- Sachs, R. 1967. Liveweights and body measurements of Serengeti game animals. *E. Afr. Wildl. J.* 5:
- Sadleir, R. M. F. S. 1966. Notes on reproduction in the large Felidae. *Int. Zoo Yb.* 6:
- Sale, J. B. 1965a. The feeding behavior of rock hyraxes (genera *Procavia* and *Heterohyrax*) in Kenya. *E. Afr. Wildl. J.* 3:
- 1965b. Observations on parturition and related phenomena in the hyrax (*Procaviidae*). *Acta Tropica* 22:
- 1966a. The habitat of the rock hyrax. *J. E. Afr. Nat. Hist. Soc.* 25:
- 1966b. Daily food consumption and mode of ingestion in the hyrax. *J. E. Afr. Nat. Hist. Soc.* 25:
- 1970a. The behavior of the resting rock hyrax in relation to its environment. *Zoo). Afr.* 5:
- 1970b. Unusual external adaptation in the rock hyrax. *Zool. Afr.* 5:
- Sambraus, H. H. 1969. Das soziale Lecken des Rindes. *Z. Tierpsychol.* 26:
- Sandell, M. 1989. The mating tactics and spacing patterns of solitary carnivores. In *Carnivore Behavior, Ecology and Evolution*, ed. J. L. Gittleman. Ithaca, N.Y.: Cornell Univ. Press.
- Sapolsky, R. M., and J. C. Ray 1989. Styles of dominance and their endocrine correlates among wild olive baboons *Papio anubis*. *Am. J. Primatol.* 18:
- Savage, R. J. C. 1978. Carnivora. In Maglio and Cooke 1978.

- Sayer, J. A., and L. P. van Lavieren 1975. The ecology of the Kafue lechwe population of Zambia before the operation of hydroelectric dams on the Kafue River. *E. Afr. Wildl. J.* 13:
- Schaffer, J. 1940. *Die Hautdrüsenorgane der Säugetiere*. Berlin: Urban und Schwarzenberg.
- Schaller, G. 1963. *The Mountain Gorilla*. Chicago: Univ. of Chicago Press.
- 1967. *The Deer and the Tiger*. Chicago: Univ. of Chicago Press.
- 1972a. Predators of the Serengeti. *Nat. Hist.* 81(2); 81(3); 81(4):
- 1972b. *The Serengeti Lion*. Chicago: Univ. of Chicago Press.
- Schenkel, R. 1947. *Ausdrucksstudien an W61fen*. Behaviour i:
- 1966a. On sociology and behavior in impala (*Aepyceros melampus* suara Matschie). *Z. Stdugetierk.* 31:
- 966b. Zum Problem der Territorialitait und des Markierens bei Saiugem--am Beispiel des Schwarzen Nashorns und des Lowens. *Z. Tierpsychol.* 23:
- 1967. Submission: its features and functions in the wolf and dog. *Amer. Zoo.* 7:
- Schenkel, R., and L. Schenkel-Hulliger 1967. On the sociology of free-ranging colobus (*Colobus guereza caudatus* Thomas 1885). In *Neue Ergebnisse der Primatologie*, ed. D. Starck, R. Schneider, H. -J. Kuhn. Stuttgart: Gustav Fischer. 1969. *Ecology and Behavior of the Black Rhinoceros (Diceros bicornis L.)*, A Field Study. Hamburg: Verlag Paul Parey.
- Schilling, A. 1979. Olfactory communication in prosimians. In Doyle and Martinl 1979.
- Schillings, C. G. 1905. *Flashlights in the Jungle*, New York: Doubleday.
- Schloeth, R. 1958. Cycle annuel et comportement social du taureau de Camargue. *Mammalia* 22:
- Schneider, K. M. 1926. *Über Hyanenzucht*. Pelztierzucht 2:
- Schomber, H. W. 1966. *Die Giraffenund Lamagazelle*. Neue Brehm-Buicherei no. 358. Wittenberg: A. Ziemsen Verlag.
- Schuster, R. H. 1976. Lekking behavior in Kafue lechwe. *Science* 192:
- Schweers, S. 1984. Zur Fortpflanzungsbiologie des Zebraduckers *Cephalophus zebra* (Gray, 18381 im Vergleich zu anderen Cephalophus-Arten. *Z. Sa'uetierk.* 49:
- Scott, J. 1985. *The Leopard's Tale*. London: Good Books Ltd. Sebeok, T., ed. 1977. *How Animals Communicate*. Bloomington: Indiana Univ. Press.
- Seidensticker, J. 1977. Notes on early maternal behavior of the leopard. *Mainmalia* 41:
- Sekulic, R. 1976. The Shimba Hills sable. *Wildlife News* 11(3):
- 1978. Seasonality of reproduction in the sable antelope. *E. Afr. Wild. J.* 16:
- 1983. Behavior and conservation of hippotragine antelopes in the Shimba Hills, Kenya. *Nat. Geo. Soc. Research Reports* 15:
- Sekulic, R., and R. D. Estes 1977. A note on bone-chewing in the sable antelope in Kenya. *Mammalia* 41:
- Selous, F. C. 1881. *A Hunter's Wanderings in Africa*. London: Macmillan.
- 1899. *Great and Small Game of Africa*. London: Rowland Ward.
- 1908. *African Nature Notes and Reminiscences*. London: Macmillan.

- 1914. African game. In *The Gun at Home and Abroad.*, vol. 3. London: The Big Game of Africa and Europe.
- Seyfarth, R. M., and ID. L. Cheney 1986. Vocal development in vervet monkeys. *Anim. Behav.* 34:
- Shoen, A. 1972. Studies on the environmental physiology of a semi-desert antelope, the dik-dik. *E. Afr. Agric. For.* 1. 37:
- Short, R. V. 1966. Oestrous behavior, ovulation, and the formation of the *corpus luteum* in the African elephant, *Loxodonta africana*. *E. Afr. Wildl. J.* 4:
- Shortridge, G. C. 1934. *The Mammals of South West Africa*. London: Heinemann.
- Signoret, J. P., B. A. Baldwin, D. Frazer, E. S. E. Hafez 1975. The behavior of swine. In *The Behavior of Domestic Animals*, 3rd ed., ed. E. S. E. Hafez. Baltimore: Williams and Wilkins.
- Sikes, S. K. 1958. The calving of the hinds. *Sylvicapra grimmia* var. *coronata*--the grey duiker. *Nigerian Field* 23:
- 1963. The self-confident ratel. *Anima. Kingd.* 66:
- 1964. The ratel or honey badger. *Afr. Wild Life* 18:
- 1971. *The Natural History of the African Elephant*. New York: American Elsevier.
- Simmons, R. E. and L. Scheepers 1996. Winning by a neck: sexual selection in the evolution of giraffe. *The American Naturalist* 148(5):
- Simonetta, A. M. 1966. Osservazioni etologiche ed ecologiche sui dik-dik (gen. *Madoqua*, Mammalia, Bovidae) in Somalia. *Monitore Zoologico Italiano* 74 suppl.
- Simpson, C. D. 1964. Notes on the banded mongoose, *Mungos mungo* (Gmelin). *Arnoldia* i:
- 1972. An evaluation of seasonal movement in greater kudu populations in southern Africa. *Zool. Afr.* 7:
- Simpson, G. G. 1945. The principles of classification and a classification of mammals. *Bull. Amer. Mus. Nat. Hist.* 85:
- 1951. *Horses*. New York: Oxford Univ. Press.
- Sinclair, A. R. E. 1977a. Lunar cycle and timing of mating season in Serengeti wildebeest. *Nature* 267:
- 1977b. *The African Buffalo*. Chicago: Univ. of Chicago Press.
- Sinclair, A. R. E., H. Dublin, iM. Borner 1985. Population regulation of Serengeti wildebeest; a test of the food hypothesis. *Oecologia* (Berlin) 65:
- Sinclair, A. R. E., and M. Norton-Griffiths, eds. 1979. *Serengeti, Dynamics of an Ecosystem*. Chicago: Univ. of Chicago Press.
- Skinner, J. D. 1966. An appraisal of the eland (*Taurotragus oryx*) for diversifying and improving animal production in southern Africa. *Afr. Wild Life* 20:
- 1971. The sexual cycle of the impala ram (*Aepyceros melampus* Lichtenstein). *Zool. Afr.* 6:
- Skinner, J. D., G. J. Braytenbach, C. T. A. Maberly 1976. Observations on the ecology and biology of bushpig (*Potamochoerus porcus*) in the Northern Transvaal. *S. Afr. J. Wildl. Res.* 6:
- Skinner, J. D., and G. Ilani 1979. The striped hyena *Hyaena hyaena* of the Judean and Negev Deserts and a comparison with the brown hyena *H. brunnea*. *Israel I. Zool.* 28:
- Skinner, J. D., and R. J. Van Aarde 1986. The use of space by the aardwolf *Proteles cristatus*. *J. Zool., Lond.* (A) 209:
- Skinner, J. D., and J. H. M. Van Zyl 1971. The post-natal development of the reproductive tract of the springbok ram lamb *Antidorcas marsupialis* Zimmermann. *Zool. Afr.* 6:

- Slijper, E. J. 1960. Die Geburt der Säugetiere. Handb. Zool., vol. 8, 25(9):
- Smith, W. J. '978. The Behavior of Communicating. Cambridge: Harvard Univ. Press.
- Smithers, R. H. N. 1966. Mutasana--the Southern bat-eared fox. Anim. Kin. 79(6):
- 1971. The Mammals of Botswana. Mus. Mem. Natl. Mus. Monum. Rhod. 4:
- 1983. The Mammals of the Southern African Subregion. Pretoria: Univ. of Pretoria.
- Smithers, R. H. N., and V. J. Wilson 1979. Check List and Atlas for the Mammals of Zimbabwe Rhodesia. Mus. Mem. Natl. Mus. Monum. Rhod. 9:
- Smnits, C. M. M. 1987. Diet composition and habitat use of the West African bushbuck *Tragelaphus scriptus scriptus* Pallas, 1776 during the first half of the dry season. S. Afr. J. Zool. 21:
- Smuts, B. 1983a. Dynamics of special relationships between adult male and female olive baboons. In Hinde 1983.
- 1983b. Special relationships between adult male and female olive baboons: selective advantages. In Hinde 1983.
- 1985. Sex and Friendship in Baboons. Hawthorne, N.Y.: Aldine. Smuts, B., D. L. Cheney, R. M. Seyfarth, R. W. Wrangham, T. T. Struhsaker, eds. 1986. Primate Societies. Chicago: Univ. of Chicago Press.
- Smuts, G. L. 1978. Effects of population reduction on the travels and reproduction of lions in Kruger National Park. Carnivore 1:
- Smuts, G. L., J. Hanks, I. J. Whyte 1978. Reproduction and social organization of lions from Kruger National Park. Carnivore 1:
- Snethlage, K. 1967. Das Schwarzwild. Berlin: Paul Parey.
- Spinage, C. A. 1962. Animals of East Africa. London: Collins.
- 1968. Horns and other bony structures of the skull of the giraffe, and their functional significance. F. Afr. Wildl. J. 6:
- 1969. Naturalistic observations on the reproductive and maternal behavior of the Uganda defassa waterbuck *Kobus defassa ugandae* Neumann. Z. Tierpsychol. 26:
- 1982. A Territorial Antelope: the Uganda Waterbuck. New York: Academic Press.
- 1986. The Natural History of Antelopes. New York and Oxford: Facts on File.
- Spinelli 1968. Second successful breeding of cheetahs in a private zoo. Int. Zoo Yb. 8:
- Spivak, H. 1971. Ausdrucksformen und soziale Beziehungen in einer Dschelada-Gruppe (*Theropithecus gelada*) im Zoo. Z. Tierpsychol. 28:
- Stanley Price, M. 1978a. The social behavior of domestic oryx. Wildlife News 13(2):
- 1978b. The nutritional ecology of Coke's hartebeest (*Alcelaphus buselaphus cokei*) in Kenya. J. Appl. Ecol. 15:
- 1988. Field operations and research in Oman. In Conservation and Biology of Desert Antelopes, ed. A. Dixon and D. Jones. London: Christopher Helm.
- Starck, D., and R. Schneider 1971. Zur Kenntnis insbesondere der Hautdrüsen von *Pelea capreolus* (Forster 1790)(Artiodactyla, Bovidae, Antilopinae, Peleini). Z. Säugetierk. 36:
- Starfield, A. M., P. R. Furrhiss, G. L. Smuts 1981. A model of lion population dynamics as a function of social behavior. In Dynamics of Large Mammal Populations, ed. C. W. Fowler and T. D. Smith. New York: Wiley-Interscience.

- Starin, E. D. 1981. Monkey moves. *Nat. Hist.* 90(9):
- 1990. Sitatunga: observations in a Gambian nature reserve. *Gnusletter* 9(3):
- Stein, D. M. 1984. *The Sociobiology of Infant and Adult Male Baboons*. Norwood, N.J.: Able Pub. Co.
Stevenson-Hamilton, J.
- 1947. *Wild Life in South Africa*. London: Cassell.
- Stewart, D. R. M., and J. Stewart 1963. The distribution of some large mammals in Kenya. *F. Aft. Nat. Hist. Soc.* 24:
- Stoltz, L. P., and G. S. Saayrnan 1970. Ecology and behavior of baboons in the northern Transvaal. *Ann. Transvaal Mus.* 26:
- Struhsaker, T. T. 1967a. Ecology of vervet monkeys (*Cercopithecus aethiops*) in the Masai-Amboseli Game Reserve, Kenya. *Ecology* 48:
- 1967b. Social structure among vervet monkeys (*Cercopithecus aethiops*). *Behaviour* 29:
- 1967c. Behavior of vervet monkeys (*Cercopithecus aethiops*). *Univ. Calif. Pubis. Zool.* 82:
- 1967d. Auditory communication among vervet monkeys (*Cercopithecus aethiops*). In *Social Communication among Primates*, ed. S. A. Altmann. Chicago: Univ. of Chicago Press.
- 1970. Phylogenetic implications of some vocalizations of *Cercopithecus* monkeys. In *Old World Monkeys*, ed. J. R. Napier and P. H. Napier. New York: Academic Press.
- 1971. Social behavior of mother and infant vervet monkeys (*Cercopithecus aethiops*). *Anim. Behav.* 19:
- 1975. *The Red Colobus Monkey*. Chicago: Univ. of Chicago Press.
- 1977. Infanticide and social organization in redtail monkey (*Cercopithecus ascanius schmidtij*) in Kibale Forest, Uganda. *Z. Tierpsychol.* 45:
- 1978. Interrelations of red colobus monkeys and rainforest trees in the Kihale Forest, Uganda. In *The Ecology of Arboreal Folivores*, ed. G. G. Montgomery. Washington, D.C.: Smithsonian Institution.
- 1979. Polyspecific associations and niche separation of rain-forest anthropoids in Cameroon, West Africa. In *Primate Ecology*, ed. R. W. Sussman. New York: Wiley.
- 1981. Polyspecific associations among tropical rain-forest primates. *Z. Tierpsychol.* 57:
- 1984. Hybrid monkeys of the Kibale Forest. In Macdonald 1984a.
- Struhsaker, T. T., and P. Hunkeler 1971. Evidence of tool using by chimpanzees in the Ivory Coast. *Folia Primatol.* 15:
- Struhsaker, T. T., and L. Leland 1979. Socioecology of five sympatric monkey species in the Kibale Forest, Uganda. In *Advances in the Study of Behavior*, vol. 9, ed. J. S. Rosenblatt et al. New York: Academic Press.
- 1986. Colobines: infanticide by adult males. In Smuts et al. 1986.
- Struhsaker, T. T., and J. F. Oates 1975. Comparison of the behavior and ecology of red colobus and black-and-white colobus monkeys in Uganda: a summary. In *Socioecology and Psychology of Primates*, ed. R. H. Tuttle. The Hague: Mouton.
- Strum, S. C. 1975. Primate predation: interim report on the development of a tradition in a troop of olive baboons. *Science* 187:
- 1981. Baboons: social strategies par excellence. *Wildlife News* 16(2):
- 1987. *Almost Human*. London: Elm Tree Books.

- Stuart, C. T. 1975. The sex ratio of steenbok *Raphicerus campestris* Thunberg in the Namib Desert Park, South West Africa. Mado qua 4:
- Stubbe, M. 1972. Die analen Markierungsorgane der Mustela Arten. Zool. Gart. 42:
- Sugiyama, Y. 1965. On the social change of Hanuman langurs (*Presbytis entellus*) in their natural condition. Primates 6:
- 1968. Social organization of chimpanzees in the Budongo Forest, Uganda. Primates 9:
- 1969. Social behavior of chimpanzees in the Budongo Forest, Uganda. Primates 10:
- Sugiyama, Y., and J. Koman 1979. Toolusing and -making behavior in wild chimpanzees at Bossou, Guinea. Primates 20:
- Suzuki, A. 1969. An ecological study of chimpanzees living in savanna woodland. Primates 10:
- Swayne, H. 1894. Further field notes on the game animals of Somaliland. Proc. Zool. Soc. Lond.
- Synman, P.S. 1940. The study and control of vectors of rabies in South Africa. Onderstepoort J. Vet. Sci. 15:
- Talbot, L. M., and M. H. Talbot 1963. The wildebeest in Western Masailand, East Africa, Wildl. Monogr. 12:
- Tandy, JM. 1974. Behavior and social structure in a laboratory colony of *Galago crassicaudatus*. In Martin et al. 1974.
- Taylor, C. R. 1969. The eland and the oryx. Sci. Am. 220:
- 1970a. Strategies of temperature regulation: effect on evaporation in East African ungulates. Am. J. Physiol. 219:
- 1970b. Dehydration and heat: effects on temperature regulation of East African ungulates. Am. J. Physiol. 219:
- Taylor, C. R., and C. P. Lyman 1967. A comparative study of the environmental physiology of an East African antelope, the eland, and the Hereford steer. Physiol. Zool. 49:
- 1972. Heat storage in running antelopes: independence of brain and body temperatures. Am. J. Physiol. 222:
- Taylor, C. R., and V. J. Rowntree 1973. Temperature regulation and heat balance in running cheetahs: a strategy for sprinters. Am. J. Physiol. 224:
- Taylor, C. R., K. Schmidt-Nielsen, R. Dmi'el, M. Fedak 1971. Effect of hyperthermia on heat balance during running in the African hunting dog. Am. J. Physiol. 220:
- Taylor, C. R., C. A. Spina, C. P. Lyman 1969. Water relations of the waterbuck, an East African antelope. Am. J. Physiol. 217:
- Taylor, M. E. 1970. Locomotion in some East African viverrids. J. Mamm. 51:
- 1972. *Ichneumia albicauda*. Mammalian Species 12:
- 1989. Locomotor adaptations by carnivores. In Carnivore Behavior, Ecology, and Evolution, ed. J. L. Gittleman. Ithaca, N.Y.: Cornell Univ. Press.
- Teleki, G. 1973. The Predatory Behavior of Wild Chimpanzees. Lewisburg, Pa.: Bucknell Univ. Press.
- Tello, J. L. P. L., and R. G. Van Gelder 1975. The natural history of nyala, *Tragelaphus angasi* (Mammalia, Bovidae), in Mozambique. Bull. Amer. Mus. Nat. Hist. 155:
- Temnbrock, G. 1968. Land mammals. In Animal Communication, ed. T. A. Sebeok. Bloomington: Indiana Univ. Press.
- Thenius, E. 1969. Stammesgeschichte der Säugetiere. Han db. Zool., vol. 8:

- 1972. The cud-chewers: phylogeny. In Grzimek's Animal Life Encyclopedia, ed. B. Grzimek, vol. 13, no. 4. New York: Van Nostrand Reinhold.
- Thesiger, W. 1970. Wild dog at 5894 metres. *E. Afr. Wildl. J.* 8:
- Thomson, P. J. 1973. Notes on the oribi (Mammalia, Bovidae) in Rhodesia. *Arnoldia* 21:
- Thorpe, W. H. 1972. Duetting and antiphonal song in birds. *Behaviour, Suppl.* 18:
- Tilson, R. L. 1977. Duetting in Namib-Desert klipspringer. *S. Afr. J. Sci.* 73:
- Tilson, R. L., and W. J. Hamilton III 1984. Social dominance and feeding patterns of spotted hyenas. *Anim. Behav.* 32:
- Tilson, R. L., and J. R. Henschel 1986. Spatial arrangement of spotted hyena groups in a desert environment, Namibia. *Afr. J. Ecol.* 24:
- Tilson, R. L., and P. M. Norton 1981. Alarm duetting and pursuit deterrence in an African antelope. *Am. Natur.* 118 :
- Tilson, R. L., and J. W. Tilson 1986. Population turnover in a monogamous antelope *Madoqua kirkii* in Namibia. *J. Mamm.* 67:
- Tinbergen, N. 1964. The evolution of signaling devices. In *Social Behavior and Evolution among Vertebrates*, ed. W. Etkin. Chicago: Univ. of Chicago Press.
- Tinley, K. L. 1969. Dikdik *Madoqua kirkii* in South West Africa: notes on distribution, ecology and behavior. *Madoqua* 1:
- Tomlinson, D. N. S. 1979. The feeding behavior of waterbuck in the Lake Mcllwaine Game Enclosure. *Rhodesia Sci. News* 13:
- 1980. Aspects of the expressive behavior of the waterbuck *Kobus ellipsiprymnus ellipsiprymnus* in a Rhodesian game park. *S. Afr. J. Zool.* 15:
- Tosi, A. J., Buzzasrd, P. J., Morales, J. C., Melnick, D. J. 2002. Y-chromosomal window onto the history of terrestrial adaptation in the Cercopithecini. In Glenn and Cords 2002.
- Trumler, E. 1959. Das 'Rossigkeitsgesicht' und aihnliches Ausdrucksverhalten bei Einhufern. *Z. Tierpsychol.* 16:
- Tsingalia, H. M., and T. E. Rowell 1984. The behavior of adult blue monkeys. *Z. Tierpsychol.* 64:
- Turnbull-Kemp, P. 1967. *The Leopard*. Cape Town: Howard Timmins.
- Tutin, C. E. G., and M. Fernandez 1984. Nationwide census of gorilla (*Gorilla gorilla gorilla*) and chimpanzee (*Pan troglodytes troglodytes*) populations in Gabon. *Am. J. Primat.* 6:
- Tutin, C. E. G., and P. R. McGinnis 1981. Chimpanzee reproduction in the wild. In *Reproductive Biology of the Great Apes*, ed. C. E. Graham. New York: Academic Press.
- Tuttle, R. H. 1986. *Apes of the World*. Park Ridge, N.J.: Noyes Publications.
- Ulbrich, R., and J. Schmitt 1968. Die Chromosomen des Erdwolfs, *Proteles cristatus* Sparrman, 1783. *Z. Sa'uetierk.* 34:
- Ullrich, W. 1961. Zur Biologie und Soziologie der Colobusaffen (*Colobus guereza caudatus* Thomas 1885). *Zool. Gart.* 25:
- Ulmer, F. A. 1966. Voices of the Felidae. *Int. Zoo Yb.* 6:
- Underwood, R. 1975. Social behavior of eland. M. Sc. thesis, Univ. of Pretoria.
- 1978. Aspects of kudu ecology at Loskop Dam Nature Reserve, eastern Transvaal. *S. Afr. J. Wildl. Res.* 8:
- 1983. The feeding behavior of African ungulates. *Behaviour* 84:

- 1984. Wild cattle and spiral-horned antelopes. In Macdonald 1984a.
- Van Bruggen, A. C. 1964. A note on *Raphicerus campestris* (Thunberg, 1811): a challenge to observers. Koedoe 7:
- Van der Merwe, N. J. 1953. The jackal. Fauna and Flora, Pretoria 4:
- Van der Zee, D. 1982. Density of Cape clawless otters *Aonyx capensis* (Schinz, 1821) in the Tsitsikama Coastal National Park, S. Afr. J. Wildl. Res. 12:
- Van Gelder, R. G. 1977. An eland x kudu hybrid, and the content of the genus *Tragelaphus*. Lammergeyer 23:
- Van Hoof, J. A. R. A. D. 1967. The facial displays of the catarrhine monkeys and apes. In Primate Ethology, ed. D. Morris. London: Weidenfeld and Nicolson.
- Van Horn, R. N., and C. G. Eaton 1979. Reproductive physiology and behavior in prosimians. In Doyle and Martin 1979.
- Van Lawick, H. 1970. Golden jackals. In Van Lawick and Van Lawick-Goodall 1970.
- Van Lawick, H., and J. Van Lawick-Goodall 1970. Innocent Killers. London: Collins.
- Van Lawick-Goodall, J. 1968a. A preliminary report on expressive movements and communication in the Gombe Stream chimpanzees. In Primates, ed. P. C. Jay. New York: Holt, Rinehart and Winston.
- 1968b. The behavior of free-living chimpanzees in the Gombe Stream Reserve. Anita. Behav. Monogr. x:
- 1971. In the Shadow of Man. Boston: Houghton Mifflin.
- 1973. The behavior of chimpanzees in their natural habitat. Am. J. Psychiatry 130:
- Van Orsdol, K. G. 1984. Lion. In Macdonald 1984a.
- Van Orsdol, K. G., J. P. Hanby, J. D. Bygott 1986. Ecological correlates of lion *Panthera leo* social organization. J. Zoo., Lond. 206:
- Van Zyl, J. H. M. 1965. The vegetation of the S. A. Lombard Nature Reserve and its utilization by certain antelope. Zool. Aft. I:
- Vaughan, T. A. 1976. Feeding behavior of the slender mongoose. J. Mamm. 57:
- Ventner, J. 1979. The ecology of the southern reedbuck (*Redunca arundinum*) on the eastern shores of Lake St. Lucia, Zululand, M. Sc. thesis, Univ. of Natal.
- Verheyen, R. 1951. Contribution di l'étude ~thologique des mammif~res du Parc National de l'Upemba. Bruxelles: Ins. Parc. Nat. Congo Belge.
- 1954a. Contribution A l'~thologie de buffle noir (*Bubalis caffer* [Sparrman]). Mammalia 18:
- 1954b. Monographie dthologique de l'hippopotame. Bruxelles: Ins. Parc Nat. Congo Beige.
- 1955. Contribution h l'~thologie du waterbuck (*Kobus defassa ugandae* Neumann) et de l'antilope harnachde (*Tragelaphus scriptus* Pallas). Mammalia 19:
- Verschuren, J. 1958 Ecologie et biologie des grands mammif~res (primates, carnivores, onguis). Exploration du Parc National de la Garamba. Bruxelles: Ins. Parc Nat. Congo Beige.
- Vesey-FitzGerald, D. F. 1955. The topi herd. Oryx 3:
- 1965. Lechwe pastures. Puku 3:.
- 1967. Dance of the bohor reedbuck. Black Lechwe 6:
- 1973. East African Grasslands. Nairobi: East African Publishing House.

- Vidler, B. O., A. M. Harthoorn, D. W. Brocklesby, D. Robertshaw 1963. The gestation and parturition of the African buffalo. *E. Afr. Wildl. J.* 1:
- Viet, P. G. 1989. Gorilla: the Struggle for Survival in the Virun gas, by M. B. Nichols. Review in *Nat. Hist.* 1:
- Viljoen, P. C. 1977. The ecology of the oribi. In 2nd Int. Symup. on Wildl. Ecology. Pretoria: S. Afr. Wildl. Mgrnt. Assn.
- Viljoen, P. C. 1980. Early postnatal development, parental care and interaction in the banded mongoose *Mungos mungo*. S.
- Vincent, J. 1979. The population dynamics of impala *Aepyceros melampus* in Mkuzi Game Reserve. D. Phil. thesis, Univ. of Natal.
- Vrba, E. S. 1983. Evolutionary pattern and process in the sister-group Alcelaphani Aepycerotini. In *Living Fossils*, ed. N. Eldredge and S. M. Stanley. New York: Springer-Verlag.
- Walker, A. 1979. Prosimian locomotor behavior. In Doyle and Martin 1979.
- Waither, F. R. 1958. Zum Kampfund Paarungsverhalten einiger Antilopen. *Z. Tierpsychol.* 15:
- 1960. "Antilopenhafte" Verhaltensweisen im Paarungszeremoniell des Okapi (*Okapia johnstoni* Sclater, 1901). *Z. Tierpsychol.* 17:
- 1961. Zum Kampfverhalten des Gerenuk (*Litocranius walleri*). *Natur u. Volk* 91:
- 1964a. Einige Verhaltensbeobachtungen an Thomsongazellen (*Gazella thomsoni* Guenther 1884) im Ngorongoro Krater. *Z. Tierpsychol.* 21:
- 1964b. Verhaltensstudien an der Gattung *Tragelaphus* de Blainville (1816) in Gefangenschaft, unter besonderer Berücksichtigung des Sozialverhaltens. *Z. Tierpsychol.* 21:
- 1965a. Verhaltensstudien an der Grantgazelle (*Gazella granti* Brooke, 1872) im Ngorongoro Krater. *Z. Tierpsychol.* 22:
- 1965b. Psychologische Beobachtungen zur Gesellschaftshaltung von Oryx-Antilopen (*Oryx gazella beisa* Ruipp.) *Zool. Gart.* 31:
- 1966a. Zum Liegeverhalten des Weisschwanzgnus (*Connochaetes gnou* Zimmermann, 1780). *Z. Sdugetierk.* 31:
- 1966b. Mit Horn und Huf, vom Verhalten der Horn tiere. Hamburg: Verlag Paul Parey.
- 1968. Das Verhalten der Gazellen. *Neue Brehm-Bficherei*, Heft 373. Wittenberg: A. Ziemsen Verlag.
- 1969. Flight behavior and avoidance of predators in Thomson's gazelle (*Gazella thomsoni* Guenther 1884). *Behaviour* 34:
- 1972a. Duikers, dwarf antelopes, and Tragelaphinae. In *Grzimek's Animal Life Encyclopedia*, vol. 13, Mammals 4, ed. B. Grzimek, pp. 308-30. New York: Van Nostrand Reinhold.
- 1972b. Social grouping in Grant's gazelle (*Gazella granti* Brooke, 1872) in the Serengeti National Park. *Z. Tierpsychol.* 31:
- 1972c. Territorial behavior in certain horned ungulates, with special reference to the examples of Thomson's and Grant's gazelles. *Zool. Afr.* 7:
- 1972d. Hartebeests, roan and sable antelopes, and waterbucks. In *Grzimek's Animal Life Encyclopedia*, vol. 13, Mammals 4, ed. B. Grzimek, pp. 399-430. New York: Van Nostrand Reinhold.
- 1973. Round-the-clock activity of Thomson's gazelle (*Gazella thomsoni* Guenther 1884) in the Serengeti National Park. *Z. Tierpsychol.* 32:
- 1974. Some reflections on expressive behavior in combats and courtship of certain horned ungulates. In Geist and Walther 1974.

- 1977. Sex and activity dependency of distances between Thomson's gazelles (*Gazella thomsoni* Guenther 1884). *Anim. Behav.* 25:
- 1978a. Forms of aggression in Thomson's gazelle: their situational motivation and their relative frequency in different sex, age and social classes. *Z. Tierpsychol.* 47:
- 1978b. Mapping the structure and the marking system of a territory of the Thomson's gazelle. *E. Afr. Wildl.* 1. 16:
- 1978c. Behavioral observations on oryx antelope (*Oryx beisa*) invading Serengeti National Park, Tanzania. *J. Mammr.* 59:
- 1978d. Quantitative and functional variations of certain behavior patterns in male Thomson's gazelle of different social status. *Behaviour* 65:
- 1979. Das Verhalten der Homtrager (Bovidae). *Handb. Zool.*, vol. 8, 10(30):
- 1980. Aggressive behavior of oryx antelope at water-holes in the Etosha National Park. *Madoqua* 211:
- 1981. Remarks on behavior of springbok, *Antidorcas marsupialis* Zimmerman 1790. *Zool. Gart.* 51:
- 1984. *Communication and Expression in Hoofed Mammals*. Bloomington: Indiana Univ. Press.
- Walther, F. R., E. C. Mungall, G. A. Grau 1983. *Gazelles and Their Relatives*. Park Ridge, N.J.: Noyes Publications.
- Ward, Rowland 1962. *Records of Big Game*, ed. G. A. Best, F. Edmond-Blane, R. C. Witting. London: Rowland Ward Ltd.
- Warren, H. B. 1974. Aspects of the behavior of the impala male, *Aepyceros melampus*, during the rut. *Arnoldia* 27:
- Waser, P. M. 1974. Spatial associations and social interactions in a "solitary" ungulate: the bushbuck *Tragelaphus scriptus* (Pallas). *Z. Tierpsychol.* 37:
- 1975. Diurnal and nocturnal strategies of the bushbuck *Tragelaphus scriptus* (Pallas). *E. Afr. Wildl.* 1. 13: 49-63.
- 1980. Small nocturnal carnivores: ecological studies in the Serengeti. *Afr. J. Ecol.* 18:
- 1982a. The evolution of male loud calls among mangabeys and baboons. In *Primate Communication*, ed. C. T. Snowdon, C. H. Brown, M. Petersen. New York: Cambridge Univ. Press.
- 1982 b. Primate polyspecific associations: do they occur by chance? *Anim. Behav.* 30:
- Waser, P. M., and M. S. Waser 1977. Experimental studies of primate vocalization: specialization for long-distance propagation. *Z. Tierpsychol.* 43:
- 1985. *Ichneumia albicauda* and the evolution of viverrid gregariousness. *Z. Tierpsychol.* 68:
- Washburn, S. L., and ID. A. Hamburg 1965. The study of primate behavior. In DeVore 1965.
- Watson, R. M. 1969. Reproduction of wildebeest, *Connochaetes taurinus albojubatus* Thomas, in the Serengeti region, and its significance to conservation. *J. Reprod. Fert5i.. SuppL* 6:
- Weir, J. S. 1972. Spatial distribution of elephants in an African national park in relation to environmental sodium. *Qikos* 23:
- Wememer, C. M. 1977. Comparative ethology of the large-spotted genet (*Genetta tigrina*) and some related viverrids. *Smiths. Contrib. Zool.* 239:
- 1984. Civets and genets. In Macdonald 1984a.
- Wemmer, C. M., and M. J. Fleming 1974. Ontogeny of playful contact in a social mongoose, the meerkat, *Suricata suricatta*. *Am. Zool.* 14:

- Wemmer, C. M., and K. Scow 1977. Communication in the Felidae. In Sebeok 1977.
- Wemmer, C. M., and D. E. Wilson 1983. Structure and function of hair crests and capes in African Carnivora. In *Advances in the Study of Mammalian Behavior*, ed. J. F. Eisenberg and D. G. Kleiman. Special Pub. No. 7, American Society of Mammalogists.
- Wemmer, C. M., and W. C. Woz'enecraft 1984. The 35 species of civets and genets. In Macdonald 1984a.
- Western, ID. 1975. Water availability and its influence on the structure and dynamics of a savanna large mammal community. *E. Afr. Wildl.* 1. 13:
- Whitesides, G. H. 1985. Nut cracking by wild chimpanzees (*Pan troglodytes*) in Sierra Leone, West Africa. *Primates* 26:
- Wickler, W. 1967. Socio-sexual signals and their intraspecific imitation among primates. In *Primate Ethology*, ed. ID. Morris.
- Weidenfeld and Nicolson. Wilhelm, J. H. 1933. Das Wild des Okavangogebietes und des Caprivizipfels. *J. S. W. Afr. Sci. Soc.* 6:
- Williamson, ID. T. 1986. Notes on sitatunga in the Linyanti Swamp, Botswana. *Aft. J. Ecol.* 24:
- Williamson, D. T., and J. E. Williamson 1985. Kalahari ungulate study. Final report to Frankfurt Zoological Society.
- Willis, P. W. 1946. A fearless mother. *Aft. Wild Life* 1(1):
- Wilson, E. E., and S. M. Hirst 1977. Ecology and factors limiting roan and sable populations. *Wildl. Monogr.* 54: -
- Wilson, R. 1984. The story of Susa. *Wildlife News* 19:
- Wilson, V. J. 1965. Observations on the greater kudu *Tragelaphus strepsiceros* from a tsetse control hunting scheme in Northern Rhodesia *F Afr. Wildl.* 1. 3:
- 1966a. Notes on the food and feeding habits of the common duiker, *Sylvicapra grimmia*, in eastern Zambia. *Arnoldia* 2(14):
- 1966b. Observations on Lichtenstein's hartebeest, *Alcelaphus lichtensteini*, over a three-year period, and their response to various tsetse control measures in eastern Zambia. *Arnoldia* 2(15):
- 1968. Weights of some mammals from eastern Zambia. *Arnoldia* 3:
- 1969. The large mammals of the Matopos National Park. *Arnoldia* 4:
- Wilson, V. J., and G. Child 1965. Notes on klipspringer from tsetse fly control areas in eastern Zambia. *Arnoldia* 1(35):
- Wilson, V. J., and J. E. Clarke 1962. Observations on the common duiker *Sylvicapra grimmia* Linn., based on material collected from a tsetse control game elimination scheme. *Proc. Zool. Soc. Lond.* 138:
- Wilson, V. I., and M. A. Kerr 1969. Brief notes on reproduction in steenbok *Raphicerus campestris* Thunberg. *Arnol*
- Wilson, V. J., and H. H. Roth 1967. The effects of tsetse control operations on common duiker in eastern Zambia. *F. Aft. Wildl. J.* 5:
- Wing, L. ID., and I. O. Buss 1970. Elephants and forests. *Wildl. Monogr.* 19:
- Wirtz, P. 1982. Territory holders, satellite males, and bachelor males in a high density population of waterbuck (*Kobus ellipsiprymnus*) and their association with conspecifics. *Z. Tierpsychol.* 58:
- Wood, B.A. & Richmond, B.G. 2000. Human evolution: taxonomy and paleobiology. *Journal of Anatomy* 196:
- Wrangham, R. W. 1977. Feeding behavior of chimpanzees in the Gombe National Park, Tanzania. In *Primate Ecology*, ed. T. H. Clutton-Brock, pp. 504-38. London: Academic Press.

- 1980. An ecological model of female-bonded primate groups. *Behaviour* 75:
- 1984. Chimpanzees. In Macdonald 1984a.
- 1986. Ecology and social relationships in two species of chimpanzee. In Rubenstein and Wrangham 1986.
- Wrangham, R. W., and E. van Z. B. Riss 1990. Rates of predation on mammals by Gombe chimpanzees, 1972 - 1975. *Primates* 31:
- Wrangham, R. W. and D. Peterson. 1996. *Demonic Males: Apes and the Origins of Human Violence*. Houghton Mifflin, Boston.
- Wrangham, R. W. and F. de Waal (eds) 1994. *Chimpanzee Cultures*. Harvard University Press, Cambridge, Mass.
- Wyman, 1967. The jackals of the Serengeti. *Animals* 10:
- Xanten, W. A., L. R. Collins, M. M. Connery 1973. Breeding and birth of a bongo at the National Zoological Park, Washington. *Int. Zoo Yb.* 13:
- Yalden, D. W. 1978. A revision of the dikdiks of the subgenus *Madoqua* (*Madoqua*). *Monitore Zoologico Italiano*, n.s. suppl. 11:
- Yost, R. A. 1980. The nocturnal behavior of captive brown hyenas (*Hyaena brunnea*). *Mammalia* 44:
- Young, J. Z. 1962. *The Life of Vertebrates*, 2nd ed. New York: Oxford Univ. Press.
- Zaloumis, E. A., and R. Cross 1974. A Field Guide to the Antelope of Southern Africa. Wildl. Society of Southern Africa, Natal Branch. Zambian Department of Wildlife, Fisheries, and National Parks 1957-1968. Departmental Records.
- Zannier, F. 1965. Verhaltensuntersuchungen an der Zwergmanguste *Helogale undulata rufula* im Zoologischen Garten Frankfurt am Main. *Z. Tierpsycho.* 22:
- Ziegler-Simon, J. 1957. Beobachtungen am Rfisseldikdik (*Rhynchotragus kirkii* Gthrl. *Zool. Gart.* 23:
- Zimmermann, E., Bearder, S. K., Doyle, D. A., and Andersson, A. B. (1988). Variations in vocal patterns of Senegal and South African lesser bushbabies and their implication for taxonomic relationships. *Folia Primatol.* 51
- Zucker, E., ed. 1987. *Comparative Behavior of African Monkeys*. Monographs in Primatology, Vol. 10. New York: Alan R. Liss.
- Zumpf, I. F. 1968. The feeding habits of the yellow mongoose, *Cynictis penicillata*, the suricate, *Suricata suricatta*, and the Cape ground squirrel, *Xerus inaurus*. *I. S. Afr. Vet. Med. Assn.* 39