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TITLE: Bibliography of the Spectacled Bear and Related Fossil Species

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INTRODUCTION

This bibliography on the spectacled bear, Tremarctos ornatus, is the result of an attempt to collate citations of as much literature as possible on the species. This bibliography is a combined effort of Jeffrey Jorgenson and Diana Weinhardt and is the most comprehensive bibliography of spectacled bear literature available. Citations were obtained by the following means: 1.) review of entries of journals with mammalogical articles, 2.) review of the literature cited sections of publications dealing with the spectacled bear, and 3.) review of abstracting services such as the Wildlife Review and Zoological Record. Citations are as complete as the sources would permit, and articles were categorized into 12 subject areas based on their emphasis. Many of the publications consider more than one topic and these citations are cross-indexed. The twelve major subject areas are:

1. **Physiology** - includes papers dealing with skeletal material (skins, bones, skulls).
2. **Paleontology** - includes papers dealing with fossil faunas.
3. **Behavior and Home Range** - includes papers discussing general behavior, social organization, home range and movement, interactions with other species, activity patterns, and habitat utilization.
4. **Captive Management** - includes papers dealing with the management of bears in captivity (e.g., reproductive strategies, diets, housing, and general management protocols).
5. **Distribution** - publications that describe the past and present occurrence of the species.
6. **Food Habits** - includes references on food items and feeding methods of wild and captive specimens.
7. **Legislation and Status** - includes papers on legislative aspects and status of bears in the wild.
8. **Medical** - articles dealing with medicine, parasites and diseases.
9. **Popularized Accounts** - includes articles from zoo and nature magazines, wildlife agency publications, and newspapers.
10. **Reproductive Biology** - includes papers dealing with litter size, length of breeding season, captive denning arrangements, genetics and growth, and development of young.

11. **Taxonomy** - original species description, revisions, and classification.

12. **General References** - includes miscellaneous papers that do not fit into other categories, and general progress or status reports. Other reports may deal with aspects of reproduction, food habits, populations, or other categories, but in such a limited way that they were not cross referenced in those sections. Included in this section, listings for the Spectacled Bear Studbook.

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EINLEITUNG

Die Bibliographie des Brillenbaeres, Tremarctos ornatus, ist der Erfolg eines Versuches so viel als moeglich gesammelter Zitierungen der Literatur des Brillenbaeres zu kollationieren. Diese Bibliographie ist durch gemeinsamer Bemuehung von Herrn Jeffrey Jorgenson und Fraeulein Diana Weinhardt ermoeeglicht worden, und sollte zur Zeit die inhaltsreichste Bibliographie der Brillenbaerliteratur vorhanden zu sein. Anfuehrungen wurden auf folgender Weise erreicht: 1.) Nachpruefung der Beschreibungen vorhandener Journale die mammologische Aufsaeetze enthielten, 2.) Nachpruefung der Literatur die sich voraussaetzlich mit dem Brillenbaer abgibt, 3.) Nachpruefung der abstrakten Ausgaben, naemlich der "Wildlife Review" und Zoological Record. Zitierungen sind also so komplett als die Nachricht quelle es erlaubt. Zitierungen wurden auch je nach Betonung von Bekanntmachungen kategorisiert. Viele der Veroeffentlichungen erwaegen mehr als einen Gegenstand, Zitierungen wurden mit Querindex in die folgenden Kategorien eingereiht. Zwoelf Hauptgegenstaende wurden unterschieden, und die beiliegenden Unterlagen enthalten folgendes:

1. **Anatomie** - enthaelt Beschreibungen die sich mit skelettartigem material befassen (Haeute, Knochen, Schaedel).

2. **Archaeologische Referenzen** - enthaelt Beschreibungen die sich mit fossilienfauna von archaeologischen Fundplaetzen befassen.

3. **Benehmen und Heimgebiet** - enthaelt Beschreibungen die generelles Benehmen diskutieren, soziale Organization, Heimgebiet und Bewegung, Wechselwirkung mit anderen Spezien, Beweglichkeit sverhalten, und Aufenthaltsanwendung (naemlich Zooanlage).

4. **Fangsbehandlung** - enthaelt Beschreibungen die mit zoologischer Verwaltung handeln, sowie auch Fortpflanzungsstrategien, Ernaehrung (Diet), Wohnanlagen, und generelle Verwaltungsprotokolls.

5. **Verbreitung** - Veroeffentlichkeiten die als Basis fuer vergangene und jetzige Gesamtzahlgebiete verwendet werden.

6. **Futtergewohnheiten** - enthaelt Referenzen im Wilden und in Fangsanstalten.

7. **Gesetzgebung und Status** - enthaelt Veroeffentlichkeiten ueber gesetzliche Bezuege und Wildtierstatus.

8. **Medizinische Behandlung** - Artkeln die sich mit Parasiten und Krankheiten des Brillenbaeres befassen.

9. Popularisierte Ansichten-enthaelt Beschreibungen von Zoos und Naturmagazinen, Wildlebenagentur, Beschreibungen und Zeitungen.

10. **Fortpflanzungsbiologie** - enthaelt Papiere die sich mit Wurfgroesse, Laenge der Befruchtungssaison, Innenboxeinrichtung und deren Zusammenstellung, Entstehung, Entwicklung und Wuchs der Jungtiere.

11. **Taxonomie** - Originalbeschreibungen, Revisionen, Naturgeschichte und Kladdifizierung.

12. **Diverse Referenzen** - enthaelt generelle Papiere die nich in andere Kategorien passen, und generellen Fortschritt oder Statusberichte. Generelle Berichte fefassen sich mit Hinsichten von Reproduktion, Futtergewohnheit, Gesamtzahl oder andere Kategorien, aber in einer solchen beschraenkten Weise dass keine Querreferenzen in den Bestimmten Abteilungen haben. In dieser Abteilung befindet sich ein Verzeichnis des Brillenbaerstammbuches.

INTRODUCION

La bibliografia del oso de anteojos, Tremarctos ornatus, es la resulta del ataque a recoger tan mucho literatura como posible sobe el oso de anteojos. Esta bibliograpia es un eshuerzo en la parte del el senor Jeffery Jorgenson y la senorita Diana Weinhardt. Es posible que res lo mas inclusiva bibliographia en existencia.

Anotaciones estaban obtenido por lo siguiente: 1.) Revistas de periodicos y diarios quien tienen articulos de mamalogia, 2.) Revistas de la literatura en publicaciones tratan con los osos de anteojos, 3.) y revistas de servicios los que The Wildlife Review y Zoological Record. Desde muchas de las publicaciones consideraban mas que uno asunto o tema, doce categoria eran distinguidas:

1. **Anatomia** - publicaciones manifestando material de esqueleto (cutis, hueso, craneo).

2. **Referencias Arqueologicas** - incluyen papeles que examinan los fosiles de sitios arqueologicos.

3. **La Conducta y Extension** en que los osos se mueven de casa - este categoria discute @a conducta general, moviemento, organizacion social, accion reciproca con otras especie de animales, y utilization de la habitacion.

4. **El manejo en cautividad** de los osos - articulos manifestando ideas de dieta, reproduccion, habitacion y manejo general protocolo
5. **Distribucion** - publicaciones usados para enseñar areas de poblacion desde lo pasado a la presente.
6. **Modos caracteristicos de alimento** - estes modos son discutidos por los animales en cautido y en el yermo.
7. **Legislacion** - incluye discursos de las leyes gobernandos los animales silvestres.
8. **Medical** - incluye discuros de parasitos y enfermedades de los osos de anteojos.
9. **Periodos Popularizados** - incluye informacion de los periodicos de zoo y periodicos de la naturaleza.
10. **Reproduccion** - incluye el tamano de la litera period de prenatal; la longitud de la estacion de la crianza; la genetica, crecimiento, y desarrollo de los jovenes.
11. **Taxonomia** - descripciones ordinales, revisiones, la historia natural y clasificacion.
12. **Las Referencias Miscelaneos.**

ANATOMY

- Anderson, R.J. 1904. Some considerations respecting the parietal bone. International Journal of Anatomy, 21:318-343.
- Blainville, M.H. 1864. Osteographie des Mammiferes. Tomo II, plates IV, VIII, and XII.
- Burt, W.H. 1960. Bacula of North American mammals. Miscellaneous Publications of the Museum Zoology, University of Michigan, 113:1-76.
- Chaine, J. 1925. L'os penien etude descriptive et comparative. Actes. Soc. Linn. (Bordeux), 78:5-195.
- Dathe, H. 1967. Bemerkungen zur Aufzucht von Brillenbaren, Tremarctos ornatus (Cuvier) im Tierpark Berlin. Zoologische Garten (Leipzig), 34(1-2):105-133.
- Davis, D.D. 1949. The shoulder architecture of bears and other carnivores. Fieldiana:Zoology (Chicago), 31:285-305.
- . 1955. Masticatory apparatus in the spectacled bear Tremarctos ornatus. Fieldiana:Zoology (Chicago), 37(2):25-46.
- . 1958. Tarsal ligaments of the spectacled bear Tremarctos ornatus. Fieldiana:Zoology (Chicago), 39(13):91-105.
- Didier, R. 1950. Etude systematique de l'os penien des mammiferes (suite). Procyonides. Ursides. Mammalia, 14:78-94.

- Djakov, L. 1967. Calcinosis universalis bei einem jungen Brillenbaren (Tremarctos ornatus). Zoologische Garten (Leipzig), 34(4/5): 270-275.
- Ehrenberg, K. 1925. Über eine verheilte Schußverletzung am linken Unterkiefer eines Brillenbaren. Zeitschrift für Stomatologie, 23 Jahrg., Heft 7, pp.581-588.
- Gregory, W.K. 1936. On the phylogenetic relationships of the giant panda (Ailuropoda) to the other arctoid carnivora. American Museum Novitates, 878:1-29.
- Hough, J.R. 1948. The auditory region in some members of the Procyonidae, Canidae, and Ursidae: Its significance in the phylogeny of the Carnivora. Bulletin of the American Museum of Natural History, 92(2):67-118, 11 figures, 7 plates.
- Langley, D.J. and J.A. Carney. 1976. Comparative effects of antosera to human pancreatic alphaamylase on serum anylases of several mammalian species. Comparative Biochemistry and Physiology, 55B:563-565.
- Lonnberg, E. 1910. Ein Exemplar von Tremarctos ornatus aus Venezuela. Zoologischer Anzeiger, 36(2/3):49-50.
- Mondolfi, E. 1983. The feet and baculum of the spectacled bear, with comments on ursid phylogeny. Journal of Mammalogy, 64(2):307-310.
- Pocock, R.I. 1914. On the feet and other external features of the Canidae and Ursidae. Proceedings from the Zoological Society of London, Part III:913-941.
- . 1918. Further notes on some external characteristics of the bears. Annals and Magazine of Natural History (Series 9), 1:375-384.
- . 1929. The structure of the auditory bulla in the Procyonidae, Ursidae, with a note on the bulla of Hyaena. Proceedings of the Zoological Society of London, 1928:963-974.
- Saporiti, E. 1949. Contribucion al conocimiento de la biologia del oso de lentes. Anales de la Sociedad Cientifica Argentina, 147:(1):3-12.
- Seal, U.S., N.I. Phillips, and A.W. Erickson. 1970. Carnivora systematics. Immunological relationships of bear serum albumins. Comparative Biochemistry and Physiology, 32(1):33-48.
- , W.R. Swaim, and A.W. Erickson. 1967. Hematology of the Ursidae. Comparative Biochemistry and Physiology, 22:451-460.
- Sicher, H. 1944. Masticatory apparatus in the giant panda and the bears. Field Museum of Natural History (Zoological Series), 29(4):61-73.
- Spencer, D. 1980. A post mortem examination carried out on an adult male spectacled bear Tremarctos ornatus at the Jersey Wildlife Preservation Trust. Dodo (Journal of the Jersey Wildlife Preservation Trust),

17:108-110.

- Stains, H.J. 1973. Comparative study of the calcanea of members of the Ursidae and Procyonidae. Bulletin of the Southern California Academy of Sciences, 72(3):137-148.
- Starck, D. 1935. Kaumuskulatur und Kiefergelenk der Ursiden, Untersuchungen an verschiedenen Altersstadien. Morphologisches Jahrbuch (Leipzig), 76:104-147, 19 figures.
- Thenius, E. 1976. Zur stammesgeschichtlichen Herkunft von Tremarctos (Ursidae, Mammalia). Sonderdruck aus Zeitschrift für Säugetierkunde, 41(2):109-114.
- Weber, M. 1928. Die Säugetiere. Einführung in die Anatomie und Systematik der rezenten und fossilen Mammalia. Band II. Systematischer Teil mit 573 Abbildungen im Text. Jena:Verlag von Gustav Fischer. xxiv + 898pp.
- Zdansky, O. 1928. Die Säugetiere der Quarterfauna von Chou-k'ou-tien. Palaeontologica Sinica (Series C), 5(4):1-146, 16 plates.

BEHAVIOR AND HOME RANGE

- Alston, E. 1879-1882. Biologia Centrali-Americana. Mammalia. London: R.H. Porter. xx + 220pp., 22 plates.
- Anon. 1980. New Parks in Ecuador. Oryx, 15(3):226.
- Bourliere, F. 1957. Un curieux biotope d'altitude: les paramos des Andes de Colombie. Terre et la Vie, 104(4):297-304. Illustrated.
- Cabrera, A. 1957. Catalogo de los mamíferos de America del Sur. 1. Revista Museo Argentino de Ciencias Naturales "Barnardino Rivadavia", 4(1):1-308.
- and J. Yepes. 1960. (Historia Natural Ediar.) Mamíferos Sud-Americanos. Cia. Buenos Aires:Argentina de Editores. pp.141-143
- Crandall, L.S. 1964. The Management of Wild Animals in Captivity. Chicago:University of Chicago Press. 769pp.
- Crotty, M.J. 1981. Mixed species exhibits at the Los Angeles Zoo. International Zoo Yearbook, 21:203-206.
- Dathe, H. 1967. Bemerkungen zur Aufzucht von Brillenbären, Tremarctos ornatus (Cuvier) im Tierpark Berlin. Zoologische Garten (Leipzig), 34(1/2):105-133.
- D'Orbigny, A. and P. Gervais. 1847. Mammifères. In: A. D'Orbigny, ed. Voyage dans l'Amérique Méridionale, vol. 4, part 2. Paris:Librairie de

- la Societe Geologique de France. 32pp. + 21 plates.
- Eck, S. von. 1969. Uber das Verhalten eines Dresdener zoologischen Garten aufgezogenen Brillenbaren (Tremarctos ornatus). Zoologische Garten, 37(1/3):81-92.
- Farfan, S.F. 1982. Reporte sobre la conducta reproductiva del oso frontino o de anteojos en cautiverio. Revista de Veterinaria y Zootecnia, 1(2):14-16.
- Lang, E.M. 1974. Werkzeuggebrauch beim Brillenbaren (Ursus ornatus). Zoologische Garten (N.F. Jena), 44(6):324-328.
- Lemke, T.O. 1981. Wildlife management in Colombia: The first ten years. Wildlife Society Bulletin, 9(1):28-36.
- Mondolfi, E. 1971. El oso frontino (Tremarctos ornatus). Defensa de la Naturaleza, 1(2):31-35.
- Osgood, W.H. 1912. Mammals from western Venezuela and eastern Colombia. Field Museum of Natural History Publication 155 (Zoological Series), 10(5):33-66.
- Peyton, B. 1980. Ecology, distribution, and food habits of spectacled bears, Tremarctos ornatus, in Peru. Journal of Mammalogy, 61(4):639-652.
- . 1981. Spectacled bears in Peru. Oryx, 26(1):48-56.
- . 1984. Spectaclad Bear Habitat Use in the Historical Sanctuary of Machu Picchu and Adjacent Areas. MS thesis. Missoula:University of Montana. x + 165pp.
- . In press. Uso de habitat por el oso frontino en el Santuario Historico de Machu Picchu y zonas adyacentes en el Peru. In: Resumenes de las Comunicaciones Cientificas, IX Congreso Latinoamericano de Zoologia, Arequipa, Peru, p.125.
- Rohl, E. 1942. Fauna Descriptiva de Venezuela (Vertebrados). Caracas: Tipografia Americana. 431pp.
- Schloeth, R. 1956. Zur Psychologie der Begegnung zwischen Tieren. Behaviour, 10:1-80.
- Strassberger, O. 1905. Baren in Bolivien. Zoologische Garten, 46:51.
- Tate, G.H.H. 1931. Random observations on habits of South American mammals. Journal of Mammalogy, 12(3):248-256.
- Therese, Pringessin von Bayern. 1908. Reisestudien aus dem Westlichen Sudamerika, II, p.48.

Thomas, O. 1902. On the bear of Ecuador. Annals and Magazine of Natural History (Series 7), 9(51):215-217.

Wemmer, C., M. von Ebers, and K. Scow. 1976. An analysis of the chuffing vocalization in the polar bear (Ursus maritimus). Journal of Zoology (London), 180:425-439.

CAPTIVE MANAGEMENT

Aquilina, G.D. 1981. Stimulation of maternal behavior in the spectacled bear Tremarctus ornatus at Buffalo Zoo. International Zoo Yearbook, 21:143-145.

Bloxam, Q. 1977. Breeding the spectacled bear Tremarctos ornatus at Jersey Zoo. International Zoo Yearbook, 17:158-161.

Boettger, C. 1899. Nachrichten aus dem Zoologischen Garten zu Amsterdam. Zoologische Garten, 40:26.

Bolau, H. 1879. Die Lebensdauer der Tiere im Zoologischen Garten zu Hamburg. Zoologische Garten, 20:106.

Crandall, L.S. 1964. The Management of Wild Animals in Captivity. Chicago:University of Chicago Press. 769pp.

Eck, S., von. 1969. Über das Verhalten eines Dresdener zoologischen Garten aufgezogenen Brillenbaren (Tremarctos ornatus). Zoologische Garten, 37(1/3):81-92.

Bloxam, Q. 1975. Breeding of the spectacled bear Tremarctos ornatus at the Jersey Zoological Park. Annual Report of the Jersey Wildlife Preservation Trust, 12:94

Friedel, E. 1872. Tierleben und Tierpflege in Holland, England, und Belgien. Zoologische Garten, 13:327.

----- . 1888. Im Kolner Zoologischen Gartern. Zoologische Garten, 29:8.

Gensh, W. 1965. Birth and rearing of a spectacled bear Tremarctos ornatus at Dresden Zoo. International Zoo Yearbook, 5:111.

Grummt, W. 1980. Breeding programs in the G.D.R. International Zoo Yearbook, 20:120-123.

Hediger, H. 1954. Neue Exotische Freunde im Zoo, pp.9-13. Basel.

Lang, E.M. 1974. Werkzeuggebrauch beim Brillenbaren (Ursus ornatus). Zoologische Garten (Jena), 44(6):324-328.

Mallinson, J.J.C. 1980. National and international zoo co-operation: An example from the Jersey Wildlife Preservation Trust. International Zoo Yearbook, 20:179-180.

- Marelli, C.A. 1931. Los vertebrados exhibidos en los zoologicos del plata. In: Memorias del Jardin Zoologico de La Plata, Rep. Argentina, (1930-1931), vol. 4. Ministerio de Obras Publicas de la Provincia de Buenos Aires. 275pp. + 84 plates and 3pp. index.
- Paul, C. 1893. Ein Besuch des Zoologischen Garten zu Coln. Zoologische Garten, 34:328.
- Peel, R.R., J. Price, and P. Karsten. 1979. Mother-rearing of a spectacled bear cub Tremarctos ornatus at Calgary Zoo. International Zoo Yearbook, 19:177-182.
- Saporiti, E.J. 1951. Observaciones biologicas en mamiferos autoctonos y foraneos de las colecciones del Jardin Zoologica en Buenos Aires. Diana (Buenos Aires), 135-140:3-20.
- Schmidt, M. 1871. Nachrichten aus dem Zoologischen Garten zu Frankfurt a. M. Zoologische Garten, 12:303-306.
- Sigel, W. 1881. Die Tierpflege des Zoologischen Gartens in Hamburg. Zoologische Garten, 22:333.
- Spencer, D. 1980. A post mortem examination carried out on an adult male spectacled bear Tremarctos ornatus at the Jersey Wildlife Preservation Trust. Dodo (Journal of the Jersey Wildlife Preservation and Trust) 17:108-110.
- Wunderlich, L. 1884. Ein Besuch des Zoologischen Gartens zu Coln. Zoologische Garten, 25:241.
- . 1889. Aus dem Zoologischen Garten zu Coln. Zoologische Garten, 30:23.

DISTRIBUTION

- Baker, R.H. 1974. Records of mammals from Ecuador. Publications of the Museum - Michigan State University, Biological Series, 5(2):129-146.
- Borrero, H., J.I. 1967. Mamiferos Neotropicales. Cali, Colombia: Universidad del Valle, Departamento de Biologia. 110pp. + 42 figures.
- Dourojeanni, M.J. No date. Memorandum Sobre la Distribucion del Oso de Anteojos (Tremarctos ornatus) en Algunas Regiones del Peru. Unpublished manuscript, 9pp.
- Egoscue, H.J. No date. Information Summary on the Spectacled Bear. Unpublished manuscript. 5pp.
- Erickson, A.W. 1966a. Preliminary Report of Investigations of the Status of the Andean Spectacled Bear (Tremarctos ornatus). Unpublished progress report, The World Wildlife Fund Project 187, 17pp.

- . 1966b. Spectacled bear - Status survey in South America. In: The Ark Underway: 2nd Report of the World Wildlife Fund 1965-1967, pp.206-207.
- Gartner, J.E., G.C. Figueroa, and M.Alberico. 1982. Estudio de dos comunidades de aves y mamiferos en Narino, Colombia. Cespedesia (Suplemento No. 3), 41-47:41-67.
- Grimwood, I.R. 1969. Notes on the Distribution and Status of Some Peruvian Mammals. American Committee for International Wildlife Protection and the New York Zoological Society, Special Publication No. 21. 86pp.
- Hamilton, L.S., J. Steyermark, J.P. Veillon, and E. Mondolfi. 1976. Conservacion de Los Bosques Humedos de Venezuela. Caracas:Sierra Club-Consejo de Bienestar Rural. 181pp.
- Handley, C.O., Jr. 1972. Mammalogy in Panama. Bulletin of the Biological Society of Washington, 2:217-227.
- . 1976. Mammals of the Smithsonian Venezuelan Project. Brigham Young University Science Bulletin (Biological Series), Vol. 20, No. 5. ii + 89pp. + 1 figure.
- Keast, A. 1969. Evolution of mammals on southern continents. VII. Comparisons of the contemporary mammalian faunas of the southern continents. Quarterly Review of Biology, 44(2):121-167.
- Lonnberg, E. 1910. Ein Exemplar von Tremarctos ornatus aus Venezuela. Zoologischer Anzeiger, 36(2/3):49-50.
- Neveu-Lemaire, M and G. Grandidier. 1911. Notes sur les Mammiferes des Hauts Plateaux de l'Amérique du Sud Mission Scientifique. Paris: Imprimerie Nationale, Librairie H. le Soudier. viii + 127pp.
- Osgood, W.H. 1943. The Mammals of Chile. Field Museum National History, Zoological Series, Publication No. 542. 268pp.
- Peyton, B. 1980. Ecology, distribution, and food habits of spectacled bears, Tremarctos ornatus, in Peru. Journal of Mammalogy, 61(4): 639-652.
- . 1981. Spectacled bears in Peru. Oryx, 26(1):48-56.
- . 1984. Spectacled Bear Habitat Use in the Historical Sanctuary of Machu Picchu and Adjacent Areas. Missoula:University of Montana. x + 165pp. Masters thesis.
- . In press. Uso de habitat por el oso frontino en el Santuario Historico de Machu Picchu y zonas adyacentes en el Peru. In: Resumenes de las Comunicaciones Cientificas, IX Congreso Latinoamericano de Zoologia, Arequipa, Peru, p.125.

- Pittier, H. and H.B. Baker. 1926. Venezuela. In:V.E. Shelford, ed.. Naturalist's Guide to the Americas, pp.637-648. Baltimore:Williams and Wilkins Co. 761pp. [Prepared by the Committee on the Preservation of Natural Conditions of the The Ecological Society of America.]
- Popenoe, W., and H.E. Anthony. 1926. Ecuador. In:V.E. Shelford, ed.. Naturalist's Guide to the Americas, pp.662-674. Baltimore:Williams and Wilkins Co. 761pp. [Prepared by the Committee on the Preservation of Natural Conditions of the The Ecological Society of America.]
- Sanborn, C.C. 1953. Mammals from the departments of Cuzco and Puno, Peru. Publicaciones del Museo de Historia Natural "Javier Prado" (Serie A Zoologia), No. 12. 8p.
- Strassberger, O. 1905. Baren in Bolivien. Zoologische Garten, 46:51.
- Therese, Pringissin von Bayern. 1908. Reisestudien aus dem Westlichen Sudamerika, II, p.48. Berlin.
- Thomas, O. 1902. On the bear of Ecuador. Annals and Magazine of Natural History (Series 7), 9(51):215-217.
- Weber, M. 1928. Die saugetierte. In: Einführung in die anatomie und systematik der recentern und fossilen mammalia, Band II. Jena:Verlag von Gustav Fischer. xxiv + 898pp. [Systematischer teil mit 573 abbildungen im text.]

FOOD HABITS

- Crandall, L.S. 1964. The Management of Wild Animals in Captivity. Chicago:University of Chicago Press. 769pp.
- Dathe, H. 1967. Bemerkungen zur Aufzucht von Brillenbaren, Tremarctos ornatus (Cuv.), im Tierpark Berlin. Zoologische Garten (Leipzig), 34(1-2):105-133.
- Egoscue, H.J. No date. Information Summary on the Spectacled Bear. Unpublished manuscript. 5pp.
- Mondol fi, E. 1971. El oso frontino (Tremarctos ornatus). Defensa de la Naturaleza, 1(2):31-35.
- Peyton, B. 1980. Ecology, distribution, and food habits of spectacled bears, Tremarctos ornatus, in Peru. Journal of Mammalogy, 61(4): 639-652.
- . In press. Uso de habitat por el oso frontino en el Santuario Historico de Machu Picchu y zonas adyacentes en el Peru. In: Resumenes de las Comunicaciones Cientificas, IX Congreso Latinoamericano de Zoologia, Arequipa, Peru, p.125.

- Rochereau, (Hermano) E. 1924. Entre los indios del alto Arauca. Boletín de la Sociedad Colombiana de Ciencias Naturales, 13(78):164-171.
- Roth, H.H. 1964. Ein Beitrag zur Kenntnis von Tremarctos ornatus (Cuvier). Zoologische Garten, 29(3):107-129.
- Suarez Martinez, L. 1984. Resultados Preliminares en el Estudio de los Habitos Alimenticios del Oso de Anteojos, Tremarctos ornatus, en el Paramo Suroriental del Volcan Antisana (Ecuador). Unpublished manuscript. 7pp. + 2 figures + 1 table.
- Tate, G.H.H. 1931. Random observations on habits of South America mammals. Journal of Mammalogy, 12(3):248-256.

LEGISLATION AND STATUS

- Anon. 1974. New protective legislation around the world - Colombia. Oryx, 12(4):4-13.
- Anon. 1975. New measures in Bolivia. Oryx, 13(1):11.
- Cowan, I. McT. 1972. The status and conservation of bears (Ursidae) of the world - 1970. In: S. Herrero, ed. Bears - Their Biology and Management, pp.343-367. Morges:IUCN Publication (New Series No. 23). 371pp.
- Paula Couto, C., de. 1960. Un urso extinto do Brasil. Boletim Sociedade Brasileira de Geologica, 9(1):5-27.
- Thornback, J. and M. Jenkins. 1982. The IUCN Red Data Book. Part 1: Threatened Mammalian Taxa of the Americas and the Australasian Zoogeographic Region (Excluding Cetacea). Morges:IUCN. xl + 516pp.

MEDICAL

- Bush, M., R.S. Custer, and E.E. Smith. 1980. Use of dissociative anesthetics for the immobilization of captive bears: blood gas, hematology and biochemistry values. Journal of Wildlife Diseases, 16(4):481-489.
- Djakov, L. 1967. Calcinosis universalis bei einem jungen Brillenbaren (Tremarctos ornatus). Zoologische Garten (Leipzig), 34(4/5):270-275.
- Fowler, M.E. 1978. Zoo and Wild Animal Medicine. Philadelphia:W.B. Saunders Company.
- Le Q. Blampied, N. and A.F. Allchurch. 1975. Overgrown claws in a male spectacled bear. Annual Report of the Jersey Wildlife Preservation Trust, 12:94-95.
- Rogers, L.L. and S.M. Rogers. 1977. Parasites of bears: A review. In:

M.R. Pelton, J.W. Lentfer, and G.E. Folk, eds. Bears - Their Biology and Management, pp.411-430. Morges:IUCN Publications (New Series No. 40). 467pp.

Seal, U.S., A.W. Erickson, and J.G. Mayo. 1970. Drug immobilization of the Carnivora. International Zoo Yearbook, 10:157-170.

POPULARIZED ACCOUNTS

Anon. 1914. Hunting the spectacled bear of the Andes. Bulletin Pan American Union (Washington, D.C.), 39(6):900-903.

Brack, A. 1961. El oso de anteojos. Biota, 3(28):347-350.

Figuroa, S. 1980. Revision de Especies Faunisticas Silvestres Registradas en el Ecuador, Que Deben Constar en los Anexos de la Ley Vigente. Quito, Ecuador:Ministerio de Agricultura y Ganaderia, Departamento de Parques y Vida Silvestre.

Osgood, W.H. 1914. Hunting the spectacled bear of the Andes. Outdoor World and Recreation.

Pierret, P.V. 1966. La Fauna Norte del Peru, Situacion Actual y Porvenir (Viaje del 7 a 27 de Abril). Lima, Peru:Instituto de Investigaciones Forestales, Servicio Forestal y de Caza, Universidad Agraria, Apartado 456. 14pp. [Unpublished manuscript.]

REPRODUCTIVE BIOLOGY

Aquilina, G.D. 1981. Stimulation of maternal behavior in the spectacled bear Tremarctos ornatus at Buffalo Zoo. International Zoo Yearbook, 21:143-145.

Bloxam, Q. 1977. Breeding the spectacled bear Tremarctos ornatus at Jersey Zoo. International Zoo Yearbook, 17:158-161.

Crandall, L.S. 1964. The Management of Wild Animals in Captivity. Chicago:University of Chicago Press. 769pp.

Dathe, H. 1967. Bemerkungen zur Aufzucht von Brillenbären, Tremarctos ornatus (Cuv.), im Tierpark Berlin. Zoologische Garten (Leipzig), 34(1-2):105-133.

Gensch, W. 1965. Birth and rearing of a spectacled bear Tremarctos ornatus at Dresden Zoo. International Zoo Yearbook, 5:11.

Grummt, W. 1980. Breeding programs in the G.D.R. International Zoo Yearbook, 20:120-123.

Hsu, T.C., and K. Benirschke. 1977. Order: Carnivora, Family: Ursidae,

- Tremarctos ornatus (Spectacled Bear), $2n = 52$. In: An Atlas of Mammalian Chromosomes, Vol. 10, Folio 484. New York:Springer-Verlag.
- Mallinson, J.J.C. 1980. National and international zoo co-operation: An example from the Jersey Wildlife Preservation Trust. International Zoo Yearbook, 20:179-180.
- Mondolfi, E. 1971. El oso frontino (Tremarctos ornatus). Defensa de la Naturaleza, 1(2):31-35.
- Newnham, R.E. and W.M. Davidson. 1967. Addendum to: Comparative study of karyotypes of several species in Carnivora, including the giant panda (Ailuropoda melanoleuca). Cytogenetics, 6:156.
- Peel, R.R., J. Price and P. Karsten. 1979. Mother-rearing of a spectacled bear cub Tremarctos ornatus at Calgary Zoo. International Zoo Yearbook, 19:177-182.
- Roth, H.H. 1964. Ein Beitrag zur Kenntnis von Tremarctos ornatus (Cuvier). Zoologische Garten, 29(3):107-129.
- Saporiti, E. 1949. Contribucion al conocimiento de la biologia del oso de lentes. Anales de la Sociedad Cientifica Argentina, 147(1):3-12.

TAXONOMY

- Blyth, E. 1840. Cuvier's Animal Kingdom, Arranged According to Its Organization; Forming the Basis for a Natural History of Animals and an Introduction to Comparative Anatomy. London:William S. Orr and Co. vii + 670pp.
- Geoffroy St. Hillaire, E. and F. Cuvier. 1825. Historie Naturelle des Mamiferes, Vol. 3. [Pt. 50, fig. 218.]
- Gill, T. 1874. On the genera. Annals and Magazine of Natural History (4a series), 13:15-16.
- Gray, J. 1873. On the skull. Annals and Magazine of Natural History (4a series), 13:15-16.
- Gray, J.E. 1864. A revision of the genera and species of the ursine animals (Ursidae), founded on the collection in the British Museum. Proceedings of Zoological Society of London:677-709.
- Gregory, W.K. 1936. On the phylogenetic relationship of the giant panda (Ailuropoda) to the other arctoid carnivora. American Museum Novitates, 878:1-29.
- Lesson, R.-P. 1827. Manuel de Mammalogie ou Historie Naturelle des Mamiferes. Roret:Librairie, Rue Hautefeuille. xv + 442pp.
- Lonnberg, E. 1910. Ein Exemplar von Tremarctos ornatus aus Venezuela.

Zoologischer Anzeiger, 36(2/3):49-50.

- Maria, (Hermano) N. 1924. Nueva especie de ursideos colombianos. Boletin de la Sociedad Colombiana de Ciencias Naturales, 13(76): 113-117.
- Mondolfi, E. 1971. El oso frontino (Tremarctos ornatus). Defensa de la Naturaleza, 1(2):31-35.
- Pocock, R.I. 1917. A new genus of Ursidae. Annals and Magazine of Natural History (Series 8), 20:128-130.
- Porter, R.K. 1833. Letters on several zoological subjects. Proceedings of the Zoological Society of London:114.
- Schinz, H. 1844-1845. Systematisches Verzeichniss Aller bis Jetzt Bekannten Säugethiere Oder, Synopsis Mammalium Nach dem Cuvier Schen System, 2 Vols. Solothurn, Jent und Gassmann. Vol. I:xvi + 587pp., Vol.II:vi + 574 + 51pp.
- Sclater, P.L. 1868. Remarks upon a bear recently added to the Society's Menagerie. Proceedings of Zoological Society of London:71-73.
- . 1871. Notes on rare or little known animals now or lately living in the Society's Gardens. Proceedings of the Zoological Society of London:221-240.
- Seal, U.S., N.I. Phillips, and A.W. Erickson. 1970. Carnivora systematics. Immunological relationships of bear serum albumins. Comparative Biochemistry and Physiology, 32:(1):33-48.
- Simpson, G.G. 1945. The principles of classification and a classification of mammals. Bulletin of the American Museum of Natural History, 85:xvi + 350pp.
- . 1980. Splendid Isolation: The Curious History of South American Mammals. New Haven:Yale University Press. ix + 266pp.
- Starck, D. 1978. Vergleichende Anatomie der Wirbeltiere auf Evolutionsbiologischer Grundlage. Band 1: Theoretische Grundlagen. Stammesgeschichte und Systematik unter Berücksichtigung der niederen Chordata. Berlin:Springer-Verlag. xv + 274pp.
- Tschudi, J.J. von. 1844. Mammalian conspectus quae in Republica Peruana reperiuntur et pleraque observata val collecta sunt in itinere. Archiv fuer Naturgeschichte, 10:248.

MISCELLANEOUS REFERENCES

- Albuja, L., M. Ibarra, J. Urgiles, and R. Barriga. 1980. Estudio Preliminar de Los Vertebrados Ecuatorianos. Quito, Ecuador:Escuela Politecnica Nacional, Departament de Ciencias Biologicas.
- Allen, G.M. 1942. Extinct and Vanishing Mammals of the Western Hemisphere with the Marine Species of All the Oceans. American Committee of International Wildlife Protection, Special Publication No. 11. 620pp.
- Anon. 1943. Photograph of a spectacled bear. Zoonooz (San Diego), 16(1):1.
- Anon. 1979. International Zoo News. Buffalo, U.S.A. International Zoo News, 26(7-8):4
- Bourliere, F. 1955. Ordre des Fissipedes. Systematique. In: P.-P. Grasse, ed. Trait Zoologie, Volume 17, pp.226-230. Paris:Maison et Cie. 1170 pp.
- Bridges, W.L. 1948. Wild Animals of the World. Garden City:Garden City Publishing Company. 272pp.
- Burton, M. and R. Burton, eds. 1970. The International Wildlife Encyclopedia, Vol. 16, pp.2220-2221. New York:Marshall Cavendish Corporation.
- Crotty, M.J. 1977. The mysterious bear of the Andes. Zoo News, 11(4):7.
- Dittrich, L. 1959. MilchgebiBentwicklung und Zahnwechsel beim Braunbar (Ursus arctos L.) und anderen Ursiden. Morphologisches Jahrbuch, 101:110-111, 117-119.
- Erickson, A.W. 1968. The spectacled bear. Oryx, 9:421-422.
- Ewer, R.F. 1973. The Carnivores. The World Naturalist. London: Weidenfeld and Nicolson. xv + 494pp. [Ithaca, New York: Cornell University Press.]
- Festa, E. 1905. Osservazioni intorno agli Orsi dell Ecuador. Atti Accademia Torino, xi:186-194.
- . 1909. Nel darien e nell Ecuador. Torino.
- Flower, S.S. 1929. List of the Vertebrate Animals Exhibited in the Garden of the Zoological Society of London, 1828-1927. I, Mammals. Zoological Society of London. 419pp.
- . 1931. Contribution to our knowledge of the duration of life in vertebrate animals. 5. Mammals. Proceedings of the Zoological Society of London:145-234.

- Giebel, C.G. 1859. Die Säugetiere. Naturgeschichte des Thierreichs. Leipzig:Verlag von Otto Wigand. viii + 522pp.
- Gilmore, R.M. 1950. Fauna and ethnozoology of South America. In: J.H. Steward, ed. Handbook of South American Indians, pp.345-464. Smithsonian Institute Bureau of American Ethology Bulletin 143, Volume 6. 715pp.
- Gray, J. 1869. Catalogue of Carnivorous, Pachydermatus, and Edentate Mammalia in the British Museum. London:Trustees of the British Museum. 398pp.
- Grzimek, B., ed. 1975. Grzimek's Animal Life Encyclopedia, Volume 12, Mammals III. New York:Van Nostrand Reinhold Company. 657pp.
- Hagen, V.W., von. 1946. South American Zoo. New York:Julian Messner, Inc. 182pp.
- Herrero, S. 1972. Aspects of evolution and adaptation in American black bears (Ursus americanus Pallas) and brown and grizzly bears (U. arctos L.) of North America. In: S. Herrero, ed. Bears: Their Biology and Management, pp.221-231. Morges:IUCN (New Series Number 23).
- Hornaday, W.T. 1911. The spectacled bear. New York Zoological Society Bulletin, 45:747-748.
- Humboldt, A., von. 1811-1824. Rec. Observation Zool. I (MSS), No. 66, pp. 81, 495.
- Knight, R.L. No date. Biology of the Spectacled Bear (Tremarctos ornatus Cuvier, 1825). Seattle:University of Washington. 3pp. Unpublished manuscript.
- Krieg, H. 1931. Wissenschaftliche Ergebnisse der Deutschen Grand Chaco-Expedition. (Bd. 2). Geographische. Stuttgart:Übersicht und illustrierter Roultenbericht. xii + 95pp.
- Krumbiegel, I. 1940. Die Säugetiere der Sudamerika-Expeditionen Prof. Dr. Kreigs. 3 Brillenbaren. Zoologischer Anzeiger, 131:296-304.
- Lonnberg, E. 1922. A third contribution to the mammalogy of Ecuador. Arkiv foer Zoologi (Stockholm), 14(20):1-23.
- Lopez-L, E and A. Paucar-M. 1973. Informe de la delegacion del Ecuador. In: Simposio Internacional Sobre Fauna Silvestre e Pesca Fluvial e Lacustre Amazonica. Informes de conferencias, cursos y reuniones, No. 26, 2 vols., pp. III-D-1 to III-D-18. Manaus:Instituto Interamericano de Ciencias Agricolas da OEA y Ministerio da Agricultura.
- Marelli, C.A. 1931. Los vertebrados exhibidos en los zoologicos del plata. In: Memorias del Jardin oologico de La Plata. Rep. Argentina, (1930-1931), vol. 4. Ministerio de Obras Publicas de la Provincia de

Buenos Aires. 275pp. + 84 plates + 3 page index.

- Mendez-Arocha, J.L. 1953. Estudio de los mamiferos colectados. Memoria de la S.C.N. LaSalle, 13(34):81-120.
- Meritt, D.A. Jr. 1982. The bear with the eyeglasses. Animal Kingdom (LP), Oct/Nov:LP6-LP7.
- Mittermeier, R.A., H. de Macedo-Ruiz, B.A. Luscombe, and J. Cassidy. 1977. Rediscovery and conservation of the Peruvian yellow tailed woolly monkey (Lagothrix flavicauda). In: His Serene Highness Prince Rainer III of Monaco and G.H. Bourne, eds. Primate Conservation, pp.95-115. New York:Academic Press. xviii + 658pp.
- Nowak, R.M. and J.L. Paradiso. 1984. Walker's Mammals of the World, 4th edition. Baltimore:The Johns Hopkins University Press. Vols. 1 and 2:xiiv + 1362pp.
- Ochoa G., J.R. and F.J. Bisbal E. 1982. Mamiferos en la Coleccion de la Estacion Biologica de Rancho Grande, Venezuela. Serie Publicacion de Datos. DGIIA/PD/D3. Caracas:Ministerio del Ambiente y de los Recursos Naturales Renovables. 54pp. + 1.
- Osgood, W.H. 1914. Mammals of an expedition across northern Peru. Field Museum Natural History Publication 176 (Zoological Series), 10(12):143-185.
- Patzelt, E. 1979. Fauna del Ecuador. Quito, Ecuador:Imprenta Europa. 187pp.
- Ponce del Prado, C.F. 1973. Informe nacional sobre fauna del Peru. In: Simposio Internacional Sobre Fauna Silvestre e Pesca Fluvial e Lacustre Amazonica. Informes de conferencias, cursos y reuniones, No. 26, 2 vols., pp. III-E-1 to III-E-52. Manaus:Instituto Interamericano de Ciencias Agricolas da OEA y Ministerio da Agricultura.
- Pournelle, G.H. 1960. Some longevity records of captive mammals. Journal of Mammalogy, 41(1):114.
- Ricciuti, E.R. 1983. Dukuduku: Can the bear of the Andes survive? Safari, September/October 1983:46-51.
- Roben, P. 1975. International Studbook for the Spectacled Bear, 1974. Zoologisches Institut I der Universitat Heidelberg. 12pp.
- . 1975. Studbooks for the maned wolf, bush dog, and spectacled bear. International Zoo Yearbook, 15:287-300.
- . 1979. International Studbook for the Spectacled Bear, 1978. Zoologisches Institut I der Universitat Heidelberg. 12pp.
- . 1981. International Studbook for the Spectacled Bear, 1980.

Zoologischer Garten Frankfurt Am Main. 16pp.

- Rosenthal, M.A. 1984. International Studbook for the Spectacled Bear, 1983. Chicago:Lincoln Park Zoological Gardens. 20pp. and 5 figures.
- Schuhmaker, E. 1968. The Last of the Wild. London:Collins and Sons, Ltd. 315pp.
- Sosnovski, I.P. 1960. The spectacled bear. Priroda, 1:114-115.
- Stains, H.J. 1974. Carnivora. In: Encyclopedia Britannica, 15th ed., pp.926-994. Encyclopedia Britannica, Inc.
- Tovar-S.A. 1971. Catalogo de mamiferos peruanos. Anales Cientificos, 9(1-2):18-37.
- Tschudi, J.J., von. 1846. Peru. In: Reisezkizzen, II, p.209. St. Gallens.
- Ulloa, Um. 1600. Viage en la Amerika Meridon. II, Par. 866, Par. 955; III, Par. 360.
- Ulloa, A. de. 1781. Physikalische und Historische Nachrichten vom Sudlichen und Nordostliche America; Aus dem Spanischen Ubersetzt von Johann Andreas Dreze...mit Zusatzen, 2 Vols. Leipzig:Bey Weidmanns Erben und Reich.
- . 1772. A Voyage to South America by George Juan and Antonio de Ulloa. Translated with Notes and Observations by John Adams. Boston:Milford House. xxvii + 419pp.
- Vega, G. de la. 1575. Comentarios Reales etc. 1. Lissabon 1609, Fol. 134, p.216.
- . 1609. Primera Parte de los Comentarios Reales (que tratan del origen de los yncas, reyes que fueron del Peru, de su idolatra del origen de goubierno en paz y en guerra...Escritos por el Ynca Garcilasso de la Vega...En Lisboa, En la oficina de Pedro Crasbeeck.)
- Zufowsky, L. 1928. Carl Hagenbecks Illustrierte Tier und Menschenwelt, 3:57.

ADDENDUM

- Anon. 1983. Plan de Manejo de la Reserva Ecologica Cotacachi-Cayapas. Quito:Ministerio de Agricultura y Ganaderia, Programa Nacional Forestal, Departamento de Administracion de Areas Naturales y Vida Silvestre. 83pp.

- Armstrong, G.D. and A. Macey. 1979. Proposals for a Sangay National Park in Ecuador. Biological Conservation, 16(1):43-61.
- Brown, A.D. and Rumiz, D.I. In press. Presencia del "Ukumari" (Tremarctos ornatus) en el Departamento de Tarija, Bolivia.
- Cipolletti, M.S. 1979. En torno a un relato andino: el ukumari. Proceedings of the 43rd Congress of the Americas, Vancouver, Canada. 19pp.
- Demetrakopoulos, G.H. 1980. Hunting and conservation among the Incas. Cynegeticus, 4(4):2-6.
- Hendley, Q.B. 1980. Agriotherium (Mammalia, Ursidae, from Langebaanweg, South Africa, and relationships of the genus. Annals S. Afr. Mus., 81(1):1-109.
- Hershkovitz, P. 1957. On the possible occurrence of the spectacled bear in Panama. Saugetierkundliche Mitteilungen, 5:122-123.
- Mondolfi, Edgardo and Ernesto O. Boede. 1981. A hybrid of a spectacled bear (Tremarctos ornatus) and an Asiatic black bear (Selenarctos thibetanus) born at the Maracay Zoological Park, Venezuela. Memoria de la Sociedad de Ciencias Naturales La Salle, Tomo XLI/Enero-Juneo 1981.
- O'Brien, Stephen J., William G. Nash, David E. Wildt, Mitchell E. Bush, and Raoul E. Benveniste. 1985. A molecular solution to the riddle of the giant pandas phylogeny. Nature, 317:140-144.
- Randall, R. 1982. Qoyllur Rit'1, an Inca fiesta of the pleiades: reflections on time and space in the Andean world. Bulletin Inst. Fr. Et. And., 11(1-2):37-81.
- Videl, B. de. 1983. Cuentas y leyendas populares de la Arg. Ediciones Culturales Argentina, 6:165-181.

PALEONTOLOGY REFERENCES

- Ameghino, C. 1916. La formula dentaria del grupo Arctotherium. Physis. Revista Sociedad Argentina Ci. Nat., 2:285-286.
- . 1919. Sobre un colmillo de oso fosil Arctotherium del ensenadense de Buenos Aires, trabajado por el hombre contemporaneo. Prim. Reun. Nac. Soc. Arg. Cienc. Nat. Buenos Aires:155-156.

- Ameghino, F. 1885. Nuevos restos de mamiferos fosiles oligocenos. Boletin de la Asociacion Argentina de Odontolgien para Ninos, 8:1-207.
- . 1902. Notas sobre algunos mamiferos fosiles nuevos o poco conocidos del Valle de Tarija. Anales Museo Nacional Buenos Aires, 8 (series 3a, vol. 1):225-261, 7 plates.
- . 1904a. Nuevas especies de mamiferos, cretaceos y tercios de la Republica Argentina. Anales de la Sociedad Cientifica Argentina, 58: 269-271.
- . 1904b. La perforacion astragaliana en los mamiferos no es un caracter originariamente primitivo. Anales del Museo de Historia Natural, 11:349-460.
- Auffenberg, W. 1963. The fossil snakes of Florida. Tulane Studies in Zoology, 10:131-216.
- Bader, R.S. 1957. Two Pleistocene mammalian faunas from Alachua County, Florida. Bulletin of the Florida State Museum, 2:53-75.
- Bjork, P.R. 1970. The Carnivora of the Hagerman local fauna (late Pliocene) of southwestern Idaho. Transactions of the American Philosophical Society, 60(7):1-54.
- Black, J. 1982. Los paramos del Antisana. Revista Geographica (Quito), 17:25-52.
- Boule, M. 1920. Mammiferes Fossiles de Tarija. Memoria consagrada ao estudo da valiosa colecao feita no planalto meridional da Bolivia pela missao cientifica. Paris:G. de Crequi-Montfort & E. Senegal de la Grange.
- Brodkorb, P. 1953. Pleistocene birds from Haile, Florida. Wilson Bulletin, 65:49-50.
- . 1956. Pleistocene birds from Eichelberger Cave, Florida. Auk, 73:136-137.
- . 1959. Pleistocene avifauna of Arredondo, Florida. Bulletin of the Florida State Museum, 4:269-291.
- Burmeister, H. 1866. Lista de los mamiferos fosiles del Terrano Diluviano. Anales del Museo Publico Buenos Aires, 3:144-145.
- Castellanos, A. 1928. Notas criticas sobre el Puelchense de los sedimentos neogenos de la Argentina. Rev. Univ. Cordoba, 15:3-54
- Cope, E.D. 1879. The cave bear of California. American Naturalist, 13: 791.
- . 1891a. The California cave bear. American Naturalist, 25:

997-999.

- . 1891b. On vertebrata from the Tertiary and Cretaceous rocks of the North-west Territory. 1. The species from the Oligocene or Lower Miocene beds of the Cypress Hills. Contr. Canad. Pal., 3: 1-25.
- Dehm, R. 1943. Ein besonders kleiner Bar (*Ursus schertzi* n. sp.) aus dem Lob von Achenheim bei Straburg im Elsass. N. Jb. Miner. etc. B, Mh.: 137-153.
- Erdbrink, D.P. 1953. A Review of Fossil and Recent Bears of the Old World, With Remarks on Their Phylogeny, Based Upon Their Dentition. 2 Vols. Proefschrift, J. de Lange, Deventer. xii + 1-320 and 321- 597pp.
- Ferguson, G.E., C.W. Lingham, S.K. Love, and R.O. Vernon. 1947. Springs of Florida. Florida Geological Survey Bulletin, 31:1-196.
- Freudenberg, W. 1910. Die Säugetierfauna des Pliocäns und Postpliocäns von Mexiko. 1. Carnivoren. Geol. und Paläont. Abh., 13:198-209.
- Frick, C. 1921. Extinct vertebrate faunas of the badlands of Bautista Creek and San Timoteo Canon, southern California. University of California Publications, Bulletin Department Geology, 12(5):277-424.
- . 1926. The Hemicyoninae and an American Tertiary bear. Bulletin American Museum Natural History, 56(1):1-119.
- Gazin, C.L. 1950. Annotated list of fossil Mammalia associated with human remains at Melbourne, Florida. Journal of Washington Academy of Science, 40:(12):397-404.
- Gervais, P. 1855a. Recherches Sur les Mammifères Fossiles de l'Amérique Méridionale, pp.7-9. ('Extrait de la Zoologie de l'Expedition dans les parties centrales de l'Amérique du Sud, publiée sous la direction de M. le Comte Francis de Castelnau).
- . 1855b. Recherches sur les mammifères fossiles de l'Amérique Méridionale. Annales des Sciences Naturelles Zoologie et Biologie Animale (Series 4), 3:330-338.
- Gidley, J.W. 1928. A new species of bear from the Pleistocene of Florida. Journal of Washington Academy of Science, 18(15):430-433.
- Gray, J. 1873. On the skull of the spectacled bear of Peru and of the *Helarctos* from Malacca and Java. Annals and Magazine of Natural History, 4(12):182-183.
- Gregory, W.K. 1936. On the phylogenetic relationships of the giant panda (*Ailuropoda*) to the other arctoid carnivora. American Museum Novitates, 878:1-29.
- Guilday, John E. and David C. Irving. 1967. Extinct Florida spectacled bear (*Tremarctos floridanus*) from central Tenn. Bulletin of the

National Speleological Society, 29(4):149-162.

- Gut, H.J. and C.E. Ray. 1963. The Pleistocene vertebrate fauna of Reddick, Florida. Quarterly Journal of the Florida Academy of Sciences, 26(4):315-328.
- Harris, A.H. and J.S. Findley. 1964. Pleistocene-Recent fauna of the Isleta Caves, Vernalillo County, New Mexico. American Journal of Science, 262:114-120.
- Hay, O.P. 1902. Bibliography and catalogues of the fossil vertebrata of North America. Bulletin of the U.S. Geological Survey, No. 179.
- Helbing, H. 1932. Über einem Indarctos Schadel aus dem Pontien der Insel Samos. Abhandlungen der Schweizerischen Palaeontologischen Gesellschaft, 52:1-18.
- Heller, F. 1949. Ursus (Plionarctos) stehlini Kretzoi, der kleine Bar aus dem altdiluvialen Sanden von Mauer-Bammenthal und Mainz-Wiesbaden. Sitz.-Ber. Heidelbg. Akad. Wiss., math.-naturw. Kl. Jg., 11(Abh.): 451-508.
- Hershkovitz, P. 1969. The evolution of mammals on southern continents. VI. The recent mammals of the neotropical region: A zoogeographic and ecological review. Quarterly Review of Biology, 44(1):1-70.
- Hibbard, C.W., C.E. Ray, D.E. Savage, D.W. Taylor, and J.E. Guilday. 1965. Quaternary mammals of North America. In: H.E. Wright Jr. and D.G. Frey, eds. The Quaternary of the United States, pp.501-525. Princeton, N.J.:Princeton University Press. 22pp.
- Ho, T-Y. 1967. The amino acids of bone and dentine collagens in Pleistocene mammals. Biochemica et Biophysica Acta, 133:568-573.
- Hoffstetter, R. 1963. La faune pleistocene de Tarija (Bolivie). Note preliminaire. Bulletin Museum of Natural History Naturalists (2 Series), 35(2):194-203.
- . 1968. Nuapua, un gisement de vertebres pleistocenes dans le chaco Bolivien. Bulletin Museum of Natural History Naturalists (2 Series), 40(4):823-826.
- Holman, J.A. 1959. Amphibians and reptiles from the Pleistocene (Illinoian) of Williston, Florida. Copeia, 1959:96-102.
- Keast, A. 1969. Evolution of mammals on southern continents. VII. Comparisons of the contemporary mammalian faunas of the southern continents. Quarterly Review of Biology, 44(2):121-167.
- Kraglievich, L. 1926. Los arctoterios norteamericanos (Tremarctotherium, n. gen.) en relacion con los de Sud America. Anales del Museo Nacional

de Historia Natural, 34:1-16.

- . 1934. La Antigüedad Pliocena de las Faunas de Monte Hermoso y Chapadmalal Deducidas de su Comparacion Con las que le Precedieron y Sucedieron. Montevideo:Imprenta "Il Sigo Ilustrado."
- Kraglievich, L. 1940. Los ursidos extinguidos de Sud Americana. (En colaboracion con Carlos Ameghino). Obras Pal. Min. Obras Pub. Buenos Aires La Plata, 3:559-627.
- Kretzoi, M. 1941. Weitere Beitrage zur Kenntnis der Fauna von Gombaszog. Ann. Mus. Nation. Hungar., 34:105-138.
- Kurten, B. 1966a. Fossil bears from Texas. The Pearce-Sellards Ser., 1: 2-15.
- . 1966b. Pleistocene bears of North America. 1. Genus Tremarctos, spectacled bears. Acta Zoologica Fennica, 115:1-126.
- . 1967. Pleistocene bears of North America. 2. Genus Arctodus, short-faced bears. Acta Zoologica Fennica, 117:1-60.
- . 1969. Cave Bears. Studies in Speleology, 2(1):13-24.
- Leidy, J. 1854. (Remarks on Sus americanus, or Harlans americanus, and other extinct mammals). Proceedings of Academy of Natural Science (Philadelphia), 7:90 [In:Holmes. 1860. Post-Pleistocene of South Carolina, p.115.]
- Major, C.J.F., 1873. Remarques sur quelques mamiferes posttertiaries de l'Italie. Atti della Societa Italiana di Scienze Naturali Milano, 15:373-399.
- Matthew, W.D. 1918. Contributions to the Snake Creek fauna, with notes upon the Pleistocene of western Nevada. American Museum Expeditions of 1916. Bulletin of the American Museum of Natural History, 38(7): 183-229.
- . 1920. New specimen of the Pleistocene bear, Arctotherium, from Texas. (Abstract.) Bulletin of Geological Society of America, 31(Pt.1): 224-225.
- . 1929. Critical observations upon Siwalik mammals. Bulletin American Museum of Natural History, 56(7):437-560.
- Merriam, J.C. 1907. Origin of South American bears. (Abstract.) Bulletin Geological Society of America, 18:660.
- . 1911. Note on a gigantic bear from the Pleistocene of Rancho La Brea. University of California Publication, Bulletin Department of Geology, 6(6):163-166.

- . 1921. Origin and history of the bear family in the western hemisphere, with particular reference to the relation of this question to problems of geographical history. Proceedings Natural Academy Science, 7:183-185.
- and C. Stock. 1925. Relationships and structure of the short- faced bear, Arctotherium, from the Pleistocene of California. Contributions to Paleontology, Carnegie Institute Washington Publications, 347:1-33.
- , C. Stock and C.L. Moody. 1916. An American Pliocene bear. University California Publications, Bulletin of the Department of Geology, 10(7):87-109.
- Muller, A.H. 1970. Lehrbuch der Palazozoologie III. Vertebrata. Teil 3. Mammalia. Jena:G. Fischer. xv + 855pp.
- Opdyke, N.D., E.H. Lindsay, N.M. Johnson, and T. Downs. 1977. The aleomagnetism and magnetic polarity stratigraphy of the mammal bearing section of Anza Borrego State Park, California. Quarternary Research, 7(3):316-329.
- Osborn, H.F. 1936. Proboscidea I. Moeritherioidea, Dainotherioidea, Mastodontoidea. New York:American Museum Press. xl + 802pp.
- Patterson, B. and R. Pascual. 1968. Evolution of mammals on southern continents. V. The fossil mammal fauna of South America. Quarterly Review of Biology, 43(4):409-451.
- Paula Couto, C., de. 1946. Carnivoros fosseis do Brasil. Revista de la Academia Colombiana de Ciencias Exactas Fisicas y Naturales, 6(24): 525-532.
- . 1950. Carnivoros fosseis do Brasil. Revista de la Academia Colombiana de Ciencias Exaxtas Fisicas y Naturales, 7(28):462-467.
- . 1952. As succesivas faunas de mamiferos terrestres no continente Americano. Publicacoes Avulsas do Museu Nacional, No. 11, p.159
- Peterson, O.A. 1926. The fossils of the Frankstown Cave, Bliss County, Pennsylvania. Annals of the Carnegie Museum (Pittsburgh), 16(2):286-292.
- Piveteau, J. 1961. Carnivora. Traite de paleont. VI/1. [pp.723-728.] Paris:Masson et Cie.
- Ray, C.E. 1958. Additions to the Pleistocene mammalian fauna from Melbourne, Florida. Bulletin of the Museum of Comparative Zoology, 119(7):421-449.
- Rinker, G.C. 1949. Tremarctotherium from the Pleistocene of Meade County, Kansas. Contributions to the Museum of Paleontology, University of Michigan, 7(6):107-112.

- Rode, K. 1934. Untersuchungen uber das Gebiss der Baren. Cbl. Min. Geol. Palaont. (Stuttgart), 3:494-501.
- Rusconi, C. 1927. Sobre un humero de Arctotherium y otro de Felis de la formacion pampana. An. Mus. Nac. H.N., 34:279-297.
- . 1932a. Sobre una mandibula de Arctotherium descubierta en las excavacion del subteraneo Lacroze. Revista de Medicina Veterinaria, 15-19(26):1-8.
- . 1932b. Apuntes sobre algunos restos de mamiferos fosiles procedentes del Brasil. Boletin de la Sociedad Geologica del Peru, 5:23-26.
- . 1933. La vida animal a fines del terciario superior en Buenos Aires. El Monitor de la Educacion Comun., 52(728):3-65.
- . 1937. Contribucion al conocimiento de la geologia de la ciudad de Buenos Aires y sus alrededor+s y referencias de su fauna. Actas de la Academia de Ciencias en Cordoba, 10(3/4):177-384.
- Schultz, C.B. and L.D. Martin. 1975. Bears (Ursidae) from the Late Cenozoic of Nebraska. Bulletin of the University of Nebraska State Museum, 10:47-54.
- Schultz, J.R. 1938. A late Quaternary mammal fauna from the Tar Seeps of McKittrick, California. Publications of Carnegie Institution of Washington, 487(4):111-215.
- Simpson, G.G. 1929a. Pleistocene mammalian fauna of the Seminole Field, Pinellas County, Florida. Bulletin American Museum of Natural History, 56(8):561-599.
- . 1929b. The extinct land mammals of Florida. Annual Report Florida State Geological Survey, 20:229-279.
- . 1930. Additions to the Pleistocene of Florida. American Museum Novitates, 406:1-14.
- . 1969. South American mammals. In: E.J. Fittkau, J. Illies, H. Klinge, G.H. Schwabe, and H. Sioli, eds. Biogeography and Ecology in South America, 2 Vols., pp.879-909.). The Hague:Dr. W. Junk N. V. Publishers. Vol. I:xvi + 1-447; Vol. 2:xi+ pp. 449-946.
- . 1980. Splendid Isolation: The Curious History of South American Mammals. New Haven:Yale University Press. ix + 266pp.
- Spillman, F. 1949. Contribucion a la paleontologia del Peru. Una mamifauna fosil de region del Rio Ucayali. Pub. Nat. Mus. His. "Javier Prado" (Lima), 1c(1):1-40.

- Stock, C. 1950a. Note on a Hyoenarctid bear from the middle Pliocene of Chihuahua, Mexico. Bulletin of Southern California Academy of Sciences, 49:1-2.
- . 1950b. Bears from the Pleistocene cave of San Josecito, Nuevo Leon, Mexico. Journal of Washington Academy of Sciences, 40:317-321.
- Thenius, E. 1947. Ursavus ehrenbergi aus dem Pont von Euboea (Griechenland). Sitz. Ber. Osterr. Akad. Wiss., math.-naturw., Kl. I., 156:225-249.
- . 1958a. Indarctos arctoides (Carnivora, Mammalia) aus dem Pliozan Osterrichts nebst einer Revision der Gattung. Neues Janrb. Geologica et Palaentologica, 108:270-295.
- . 1958b. Über einen Kleinbaren aus dem Pleistozan von Slowenien nebst Bemerkungen zur Phylogese des plio-pleistozanen Kleinbare Razprave. Slovenska Akad. Znan. in Umetn., 4:631-646.
- . 1959. Ursidenphylogese und Biostratigraphie. Zeitschrift für Saugetierkunde, 24(1/2):78-84.
- . 1976. Zur stammesgeschichtlichen Herkunft von Tremarctos (Ursidae, Mammalia). Sonderdruck aus. für Saugetierkunde, 41(2): 109-114.
- and H. Burgl. 1957. Los mamíferos Suramericanos - En perspectiva histórica. Revista de la Academia Colombiana de Ciencias Exactas Físicas y Naturales, 10(39):123-130.
- Tobien, H. 1973. On the evolution of Mastodonts (Proboscidea, Mammalia). Part 1: The bunodont trilophodont groups. Notizbl. Hess. L. Amt. Bodenforschg., 101:202-276.
- Torcelli, A.J. 1918. Los Mamíferos Fósiles de la República Argentina. Parte III, Homalodontes. Obras Completas y Correspondencia Científica de Florentino Ameghino, Vol. 8. La Plata:Taller de Impres Oficiales. 585pp.
- Walter, H.V. 1940. Urso Extinto - "Arctotherium brasiliensis" - da Caverna de Lagoa Fun Minas Gerais, pp.148-166. Rio de Janeiro: Grafica Guarani.
- Webb, S.D. 1974. Pleistocene Mammals of Florida. Gainesville:The University Press of Florida. x + 270pp.
- Weigel, R.D. 1963. Fossil vertebrates from Vero Florida. Special Publication of the Florida Geological Survey, 10:1-59.
- Winge, H. 1895. Jordfundne og Nulevende Rovdyr (Carnivora) fra Lagoa Santa, Minas Geraes, Brasilien. Kjobenharin:"E Museo Lundii." 103pp.

Wolff, R.G. 1978. Function and phylogenetic significance of cranial anatomy of an early bear (Indarctos) from Pliocene sediments of Florida. Carnivore, 1(3):1-12.

SPECTACLED BEAR BIBLIOGRAPHY ADDENDUM

Anon. 1979. International zoo news: Buffalo Zoo. International Zoo News, 26(7-8):46.

Ashford, Mary Wynne. 1977. Spectacled bear birth. Dinnys Digest (Calgary Zoological Society):4-5.

Brown, A. and D. Rumiz. 1986. Distribution and status of the spectacled bear (Tremarctos ornatus) in the southern limit of its range. Seventh International Conference on Bear Research and Management, Williamsburg, Virginia. [Abstract.]

Goldstein, I and E. Yerena. 1986. Patrones de utilizacion del paramo por Tremarctos ornatus. X Congreso Latinoamericano del Zoologia, Valparaiso, Chile. [Abstract in press.]

Jorgenson, J. and J.V. Rodriguez. 1986. Proyecto del Oso Frontino en

Colombia - informe preliminar. G.E.O.F., Boletin 10 (Version en espanol), Abril.

- Michel, G. 1984. Zum Bau der Plazenta Beim baren. Anatomischer Anzeiger, 155(1-5):209-215.
- Michel, G., K. Elze, and S. Seifert. 1983. Zur embryonalentwicklung des baren unter besonderer beachtung des baues der plazenta. Zoologische Garten (Jena), 53(3-5):290-294.
- Mondolphi, E. 1971. El Oso Frontino (Tremarctos ornatus). Defensa de la Naturaleza, 1(2):31-35.
- Peyton, B. 1986. Spectacled bear news. Species, 15-16.
- Rodriguez R., E.D., F.E. Poveda G., D. Rivera O., J. Sanchez M., V.I. Jaimes S., and A.R. Lozada R. 1986. Reconocimiento preliminar del habitat natural del Oso Andino (Tremarctos ornatus) y su interaccion con el hombre en la region nororiental del Parque Nacional Natural El Cocuy. Boletin divulgativo MANABA (Unidad investigativa del Osa Andino). V.1.N.1. Bogota, Colombia:Universidad Nacional de Colombia.
- Salinas, P.J. 1980. Vertebrados poco comunes de las zonas altas de venezuela. Reunion Iberoam. Conserv. Zool. Verteb. 1980-1981. [Abstract.]
- Suarez, L.E. 1986. Habitos alimenticios y distribucion del Oso de Anteojos, Tremarctos ornatus, en el paramo suroriental del volcan Antisana, Ecuador. Quito: Pontifica Universidad Catolica del Ecuador. Tesis. 60pp. [Resumen en G.E.O.F. Boletin 10.]

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