

Short Note

Early reproduction onset in four species of Didelphimorphia in the Peruvian Amazonia

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Precise data about age of sexual maturity in didelphids are scarce, although knowledge on the reproductive patterns is well known from several publications (Tyndale-Biscoe and MacKenzie 1976, Tyndale-Biscoe and Rentree 1987, Harder 1992, McAllan 2003, Monteleo-Filho and Cáceres 2006). The limited knowledge published on sexual maturity is mainly due to the difficulties in establishing correlations between chronological and dental age; the latter is determined by the sequence of tooth replacement (Astúa and Geise 2006). Some published reports (e.g., Atramementowicz 1986, Gentile et al. 1995, Astúa and Geise 2006) revealed an early onset of the reproductive period in some species of didelphids, where young or subadult specimens (based on tooth replacement) were sexually mature. According to Astúa and Geise (2006), early sexual maturity is a strategy related to the capacity to produce more than one litter during the highest productive season.

During a project developed in northeastern Peru, 3-year intensive surveys (December 2002 to December 2005) were carried out along the highway from Iquitos to Nauta and some localities near Iquitos on tributaries of the Amazon River (Loreto Department, Figure 1, modified map from Kalliola and Flores Paitán 1998). The climate of the study area is tropical, warm (average temperature 27.5°C), humid (annual mean humidity 85%) and rainy (annual mean precipitation 2700 mm) (Tafur Rengifo 2001).

Trap lines (500 m in length) were placed in different habitats (primary forest, secondary forest and rural areas). Each line contained 50 stations (10 m spacing) and each station included a Sherman and a Tomahawk traps. Traps were baited with peanut butter and oats, and several fruits. The specimens collected will be deposited in part at the Museo de Historia Natural de San Marcos, Lima, Peru and in part at the Colección Mamíferos Lillo, Tucumán, Argentina. The records reported in this paper correspond to 11 localities (Appendix), representing three

types of habitats, tropical humid forest, secondary forest and flooded grassland (‘gramalotal’).

Reproductive condition was determined by external examination (development of mammae, lactation, pregnancy or offspring presence): pups were measured (crown rump, CR), their sex determined (when possible) and were then preserved in a freezer (–4°C). Standard external measurements were taken in millimeters and body mass in grams.

Classification of dental age was according to Tyndale-Biscoe and MacKenzie (1976), as the four studied species have *Didelphis* eruption pattern. In total, seven dental classes were established based on tooth eruption, replacement and wear. Molars were numbered from 1 to 4 and the deciduous premolar was assigned as dP3 and the permanent premolar as P3. In dental class 5, four specimens with slightly erupted M4 were included.

The χ^2 -test with Yates’ continuity for correction was used, according to Prescher (2001) to determine dependence between reproducing females and dental age.

A total of 360 specimens of didelphids were collected, including 164 females, of which 16 (of four different species) were sexually mature, but with incomplete dentition, and thus classified as subadults or young (Table 1).

In 11 female *Didelphis marsupialis* Linnaeus 1758, of which 9 were not adults (81.8%), only 2 specimens of these with early reproduction onset were collected. The χ^2 -test was not significant (Table 2), but the sample was too small. It is important to note that larger specimens of *Didelphis* were captured by hand, as they did not enter the traps because of their small size. One specimen was a juvenile (dental class age 3) with two offspring in the marsupium, and another was a lactating subadult with two well-developed mammae (dental class age 4); these were collected in February and March, respectively (see Table 1). Previous data on this species recorded this phenomenon in even younger specimens with dental class age 2 and age 3 (see Atramementowicz 1986, Julien-Laferrère and Atramementowicz 1990).

For *Philander opossum* (Linnaeus 1758), previous records of this phenomenon were also reported (see Atramementowicz 1986, Julien-Laferrère and Atramementowicz 1990). In this study, 63 specimens were collected, 27 of which (42.8%) were not adults and 10 were reproducing earlier than usual. The χ^2 -test indicates that the differences were highly significant (Table 2), so reproduction in this species is dependent on dental age. These include one specimen of dental class age 2 collected in March (Figure 2A), five of dental class age 3 collected in February, June, August and December, three of dental class age 4 collected in February and November, and one of dental class age 5 collected in February, and all sexually active (see details in Table 1).

Sexually mature female young and subadult specimens of *Metachirus nudicaudatus* (E Geoffroy 1803) and

Amazonia Reproductions

Susan Powell, Rose Inserra



Amazonia Reproductions:

Amazonia Susan Powell, Rose Inerra, 1997 Describes the geography wildlife and people of the Amazon River and its drainage basin

Reproduction in New World Primates J.P. Hearn, 2012-12-06 The New World primates are becoming widely used in scientific and medical work in fields from anthropology to zoology behaviour to urology They have unique attributes for studies in cancer infectious diseases genetics virology and reproduction However it is only now that their reproductive physiology is being clarified in any depth and this book is a first synthesis of that knowledge The nine authors involved in this project have presented an up to date account of the major New World species used in biological and medical science In addition to their distribution and conservation in the wild essential biological data from laboratory studies are presented on reproductive cycles gestation length seasonal breeding puberty and other factors The major applications of these species in research are explored Whenever possible research workers should steer away from using endangered species in their studies The New World monkeys used in research in any numbers are still fairly common in the wild yet their greatest advantages are in their small size and high fecundity This makes possible the establishment of self sustaining captive breeding colonies at a fraction of the time and cost necessary for the more conventional Old World laboratory primates Consequently the drain on wild stocks need not be extensive as only breeding nuclei should be necessary

Reproductive Biology of South American Vertebrates William C. Hamlett, 2012-12-06 South America is one of the few areas of the world that includes vast areas of as yet undisturbed natural habitats These areas are home to as many as half the world's species of plants and animals Many of the animals inhabiting these areas are of direct and immediate economic importance while others are of unknown potential value With economic development of these areas there is a coincident disruption of natural habitats that have a direct impact on the reproductive capabilities of the affected species Reproduction is central to the survival of all species and regardless of the environmental stresses imposed on them scientific attention must be focused on reproductive biology as a way to deal with these pressures It is vitally important to gather as much research data as possible on the reproductive biology of the species on this continent in order to provide governmental agencies and scientists with the most accurate information on which to base decisions regarding development This volume is intended to draw attention to these pressing matters by gathering a wide representation of scientists actively engaged in reproduction research relating to South American vertebrates It is intended that this volume will serve as a resource for individuals and organizations interested in reproductive biology and species survival An additional benefit is that economically important species as well as potentially important ones such as sharks will be discussed

Gender in Amazonia and Melanesia Thomas Gregor, Donald Tuzin, 2001-11 Amazonia and Melanesia are half a world in distance yet their cultures bear similarities in the areas of sex and gender This work looks at ways in which sex and gender are elaborated obsessed over and internalized

The Amazon H. Sioli, 2012-12-06 The Amazon that name was given to the biggest river on

earth and is often used for the whole area of its basin too This geographical region is currently referred to as Amazonia thus emphasizing the peculiar character of its aquatic and terrestrial reaches The Amazon embodied the dream of many a naturalist to explore what for a long time was a terra incognita In recent years however Amazonia has emerged as a main centre for development by some of the countries in which it lies and by foreign industrialized nations The development projects and enterprises have aroused worldwide interest and have given rise to discussions on their aims and their consequences to the Amazonian nature Limnological and ecological investigations in Amazonia started only about 40 years ago The editor had the good fortune to partake in them from the very beginning He spent his decisive years in Amazonia and dedicated his life's work to that research and to that country and the Amazonian people Nearing the end of his scientific activities he is grateful to be able to summarize in this book most of the knowledge we possess at present of Amazonian limnology and landscape ecology

Art Index Alice Maria Dougan, Margaret Furlong, 2000

Amazonian Caboclo Society Stephen Nugent, 2021-01-06 Amazonian Caboclo Society is concerned with peasant society in Brazilian Amazonia Most anthropological work in Amazonia has focused on Indian groups and caboclos peasants of mixed ancestry have generally been regarded as relics of the haphazard development of Amazonia and have received little serious attention This volume aims to analyze the reasons for the relative invisibility of caboclo society It traces the development of caboclo societies and argues that much of the current discussion of sustainable development fails to recognize the important legacy of historical caboclo society

Human Impacts on Amazonia Darrell Addison Posey, Michael J. Balick, 2006 Of late religion seems to be everywhere suffusing U S politics and popular culture and acting as both a unifying and a divisive force This collection of manifestos Supreme Court decisions congressional testimonies speeches articles book excerpts pastoral letters interviews song lyrics memoirs and poems reflects the vitality diversity and changing nature of religious belief and practice in American public and private life over the last half century Encompassing a range of perspectives this book illustrates the ways in which individuals from all along the religious and political spectrum have engaged religion and viewed it as a crucial aspect of society The anthology begins with documents that reflect the close relationship of religion especially mainline Protestantism to essential ideas undergirding Cold War America Covering both the center and the margins of American religious life this volume devotes extended attention to how issues of politics race gender and sexuality have influenced the religious mainstream A series of documents reflects the role of religion and theology in the civil rights feminist and gay rights movements as well as in conservative responses Issues regarding religion and contemporary American culture are explored in documents about the rise of the evangelical movement and the religious right the impact of new post 1965 immigrant communities on the religious landscape the popularity of alternative New Age and non Western beliefs and the relationship between religion and popular culture The editors conclude with selections exploring major themes of American religious life at the millennium including both conservative and New Age millennialism as well as excerpts that speculate on the future of

religion in the United States The documents are grouped by theme into nine chapters and arranged chronologically therein Each chapter features an extensive introduction providing context for and analysis of the critical issues raised by the primary sources

Genetics and Genomics of Pineapple Ray Ming,2018-11-27 This book is the first comprehensive volume on the genetics and genomics of pineapple and provides an overview of the current state of pineapple research Pineapple *Ananas comosus* L Merr is the second most important tropical fruit after banana in term of international trade Its features are advantageous for genomic research it has a small genome of 527 Mb which is diploid and vegetatively propagated it is monocot closely related to the grass family that includes major cereal crops wheat rice corn sorghum and millet and it serves as an out group for genetic and genomic research in grasses In addition to exploring the evolution and improvement of pineapple this work examines the pineapple genome with respect to genome structure and organization comparative analyses with other angiosperm genomes transcription factors disease resistance and circadian clock regulation of CAM related genes With chapters covering botanical genetic genomic and applied aspects of pineapple this text also encourages the application of genomic technologies and suggests future prospects It's Reproduction, Openly John McGreal,2017-04-18 John McGreal s three new books It s Reproduction Contently It s Revolution Actively and It s Transformation Contently continue the It Series published by Matador since 2010

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