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Fruit Bats (Megachiroptera) of the World: A Bibliography

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Fruit Bats (Megachiroptera) of the World: A Bibliography

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Introduction

This bibliography of literature relating to fruit bats was compiled mainly from a search of computerized data bases. It includes literature published before 1983 (most of the abstracting and indexing services began computerizing their files about 1970), current updates of the files through June 1982, and older literature selected from the references cited in documents in the collection of the Institute of Pacific Islands Forestry (Pacific Southwest Forest and Range Experiment Station, USDA Forest Service).

The coverage of this bibliography is limited to bats of the suborder Megachiroptera. These bats are considered to be a distinct, relatively homogeneous group restricted to the Old World tropics and generally frugivorous. Their common names often reflect this dietary preference. Examples are the short-nosed fruit bat (*Cynopterus brachyotis*) of Indonesia, the straw-colored fruit bat (*Eidolon helvum*) of Africa, and the tube-nosed fruit bats such as *Paranyctimene raptor* from New Guinea. Some of the Megachiroptera, the subfamily Macroglossinae, are adapted to a diet of nectar and pollen but are still called fruit bats; e.g., the African long-tongued fruit bat *Megaloglossus woermanni*.

The rest of the bats, all suborder Microchiroptera, are a diverse widespread group including insectivorous, piscivorous, nectarivorous, omnivorous, and hematophagous, as well as some frugivorous bats.¹

Some species of *Carollia*² and *Artibeus*³ in the subfamily Phyllostomatidae include fruit in their diet and are referred to in the literature as fruit bats. Because they are Microchiroptera, however, they are not included in this bibliography. For an overview of world literature published between 1958 and 1967, the reader is referred to "Bibliography of bats (Mammalia: Chiroptera) 1958-67," by Adam Krzanowski, which includes both Megachiroptera and Microchiroptera and has an extensive subject index.

Fruit bats are of special interest as agents of pollination and dispersal of fruits.⁴ Because they eat some of the same fruits as people, there is concern in areas where they occur in large numbers about their competition for fruit crops.⁵ Fruit bats are themselves a source of food for people, highly esteemed in some places. As such, they provide an indirect means for people to harvest wild fruits out of reach, and fruits, flowers, and plant parts not normally eaten by people. There is some concern about the possibility that fruit bats might carry transmittable diseases.⁶ They have also been utilized as laboratory animals. Fruit bats have a large repertoire of vocal communication, and there is considerable interest in their behavior and social organization.

Researchers in Micronesia are concerned about the overexploitation of fruit bats, which are being harvested on a number of islands at unsustainable rates. The Mariana's fruit bat *Pteropus mariannus* has been listed by the International Union for the Conservation of Native and Natural Resources as an endangered species. Wheeler, in the introduction on his bibliography of *Pteropus*, speaks of "the urgent need for biological data on which to base conservation efforts."⁷ An investigation is being carried out by Marjorie Falanruw, USDA Forest Service biologist, on the life history of the fruit bats of Yap. The intent of this research is to collect information needed for the wise management of this food item, which has recently become a valuable commercial resource.⁸ It is this study, and the need for more like it, that provided the impetus for the information in this bibliography.

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⁴Ayensu, E.S. Plant and bat interactions in West Africa. *Ann. Mo. Bot. Gardens* 61(3):702-727; 1974.

⁵Ratcliffe, Francis. Note on the fruitbats (*Pteropus* spp.) of Australia. *J. of Animal Ecol.* 1:31-57; 1932.

⁶Funmilayo, O. Diet and roosting damage and environmental pollution by the straw-colored fruit bat in South-western Nigeria. *Nigerian Field XLI* (3):136-142; 1976.

⁷Wheeler, Michael E. A bibliography of the fruit bat genus *Pteropus*. Tech. Pub. No. 4. Territory of Guam, Department of Agriculture, Div. of Aquatic and Wildlife Resources; 1979 November. 30 p.

⁸Falanruw, M. Interim report on Yapese fruitbats. Unpublished testimony on Bill 1-256 for the Committee on Resources and Development, Yap State Legislature, 1981 April 25. 12 p.

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¹Silva, Flario, Nossos morcegos. Bats of Rio Grande do sul Brazil. *Inheringia. Ser. Divulg.* (4):3-14; 1975.

²De Bonilla, Hela; Rasweiler, John J., IV. Breeding activity, pre-implantation development and oviduct histology of the short-tailed fruitbat, *Carollia*, in captivity. *Anat. Rec.* 179(3):385-404; 1974.

³Davis, W.B. A review of the small fruit bats genus *Artibeus* of Middle America. *Southwest Nature.* 14(1):15-29; 1970.

How To Use the Bibliography

The citations in this bibliography are listed alphabetically, by author, and secondarily by year of publication, in accordance with the rules for organization of bibliographic references approved by the American National Standards Institute (ANSI). Foreign language references list both the original title and the English translation when available or the language of the document is indicated. Journal abbreviations are consistent with those found in "Serial Sources for the BIOSIS Database," published by BioSciences Information Service.

Following the general listing are two cross indexes. The first of these breaks citations into 10 subject categories. These categories were chosen on the basis of the volume of literature in each, the interrelated nature of some topics, and the special interest of others.

Within each subject category, the entries are listed by author and year of publication. The second index presents a breakdown of citations by species or genera, also giving author and year.

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Advani 1982; Anciaux 1976; Anderson 1980; Ansell and Ansel 1973; Baker and Baker 1936; Balen 1912; Banerjee 1972; Baranga and Kiregyera 1982a; Baron 1977a; Baron 1977b; Bartholomew, Dawson, and Lasiewski 1970; Bastawde and Mahabal 1976; Bemmell 1974; Bergmans 1973; Bergmans 1975a; Bergmans 1976; Bergmans 1978a; Bergmans 1978b; Bergmans 1978c; Bergmans 1979a; Bergmans 1979c; Bergmans and Van Bree 1972; Bhatt 1942; Bradbury 1977; Breadon 1931; Breadon 1932; Brosset 1966a; Brosset 1966b; Brown 1973; Burch 1892; Carpenter 1975; Carroll 1978; Carroll 1979; Clunie 1976; Clunie 1976; Coe 1975; Cook 1979; Cunningham van Someren 1972; Cyprus 1979; Daniel 1975; De Guelldre and De Vree 1982; Deblase 1980; Dobson 1881; Doyle 1970; Drahos and Ikehara 1971; Du Preeze 1969; Eisenberg 1966; Eisenberg and Wilson 1978; Eisentraut 1973; Eisentraut and Jansen 1944; Erkert 1970; Erkert 1976; Erkert, Bay, and Kracht 1976; Fayenuwo and Halstead 1974; Fenton 1975; Ferrar 1934; Funmilayo 1976; Funmilayo 1979; Gaisler, Madkour, and Pelikan 1972; Galil, Stein, and Horovitz 1977; Gopalakrishna and Choudhari 1977; Gopalakrishna and Madhavan 1970; Gould 1977; Gould 1978; Gould 1979; Hall 1973; Hamilton-Smith 1974; Herzig-Straschil and Robinson 1978; Hill 1979; Holyoak and Thibault 1978; Howell 1979; Howell and Hodgkin 1976; Howland, Murphy, Kwiecinski, Kern, and Kallen 1982; Jacobsen and du Plessis 1976; Jansen and Eisentraut 1945; Johnson and Titlebaum 1976; Jones 1971; Jones 1972; Jones 1973; Jones and Maa 1976; Kao 1976; Keegan 1982; Khaparde 1979; Kingdon 1974; Kobayashi, Uemura, Wada, and Takei 1978; Kock 1977; Koopman, Mumford, and Heisterberg 1978; Kulzer 1958; Kulzer 1963; Kulzer 1968a; Kulzer 1968b; Kulzer 1969a; Kulzer 1969b; Kulzer 1969c; Kunz 1982; Laburn and Mitchell 1975; Largen, Kock, and Yalden 1974; Lavery 1973; Lawrence and Novick 1963; Lim 1970; Linsley 1934; Madkour 1977a; McCann 1934; McCann 1940a; McCann 1940b; McCann 1941; Mirza 1967; Moutou 1982; Murphy, Kwiecinski, Howland, Kern, and Kallen 1982; Mutere 1968a; Mutere 1973; Nelson 1964; Nelson 1965a; Nelson 1965b; Neuweiler 1962a; Neuweiler 1962b; Neuweiler 1967; Nicoll 1981; Norton and van der Merwe 1978; Novick 1958b; Ogilvie and Ogilvie 1964; Okon 1974c; Okon and Ekanem 1979; Okon, Umukora, and Ajudua 1978; Pennycuick 1971; Perez 1968; Perez 1972; Perez 1973; Peterson 1969; Puranik, Gopalakrishna, and Chari 1976a; Puranik, Gopalakrishna, and Chari 1976b; Ratcliffe 1931; Ratcliffe 1931; Ratcliffe 1932; Ratcliffe 1961; Ripley 1960; Robbins 1980; Roberts 1975; Robinson 1973; Robinson 1982; Robinson and Morrison 1957; Rosevear 1965; Rousselot 1950; Simmons 1973; Sinclair no date; Singh and Patnaik 1966; Sinha 1981; Sinha and Advani 1976; Summers and Suthers 1982; Suthers 1977; Suthers and Summers 1980; Suttie 1979; Suyanto 1979; Thomas and Fenton 1978; Troughton 1927; van der Westhuyzen 1975; van der Westhuyzen 1976; van der Westhuyzen 1978a; Van Deusen 1968; Verschuren 1976; Ward 1968; Wells and Labang 1974; Wheeler 1979a; Wickler and Seibt 1975; Wickler and Seibt 1976; Wiles 1981b; Wilson 1973a; Wilson 1973b; Wilson 1979a; Wodzicki and Felten 1975; Wrangham 1980; Zack, Czeschlik, and Heldmaier 1979; Ziegler 1981

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Start 1974; Stiller and Ranchitham 1975; Stiller, Sivanandam, and Hassan 1975; Stiller and Sullivan 1977; Taufflieb 1972; Theodor 1979; Tibayrenc, Bain, and Ramachandran 1979; Uchikawa and Suzuki 1980; Van Peenen, Hoogstraal, Duncan, and Ryan 1968; Wallace, Marshall, and Marshall 1972; Wilson and Wodzicki 1977; Worth and Shah 1969; Yap, Lim, de Witt, Krishnasamy, Sivanandam, and Yen 1977; Youdeowei 1975; Zook 1975; Zook, Sauer, and Garner 1970; Zook, Sauer, and Garner 1972; Zumpt and Elliott 1970;

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Anderson 1980; Aquatic and Wildlife Resources Division 1978; Baranga and Kiregyera 1982a; Bruner and Pratt 1979; Drahos and Ikehara 1971; Funmilayo 1976; Halstead 1977; Howell 1979; Madkour 1975b; Ralph and Sakai 1979; Rivett 1927; Singh and Patnaik 1966; USDI (United States Department of Interior) 1979; Maijels 1979; McCann 1940b; Moutou 1982; Nicholson 1945; Wheeler 1979a; Wheeler 1980a; Wheeler and Aguon 1978; Wiles 1981a

Care in Captivity

Blackwell 1966; Blackwell 1967; Carpenter 1978; Duplaix-Hall 1973; Ewers 1974b; Green, van Tonder, Cole, and Metz 1974; Green, van Tonder, Oettle, Cole, and Metz 1975; Keegan 1979; Kloes 1908; Sanyal 1892; Zook 1975; Zook, Sauer, and Garner 1972

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Alionycteris paucidentata
Kock 1977

Aproteles bulmerae
Menzies 1977

Balionycteris
Yong and Dhaliwal 1976

Balionycteris maculata
Fain 1978; Hill and McNeely 1975

Casinycteris argynnis
Klima and Gaisler 1968

Cephalotes peronii (*Dobsonia pannietensis*)
Thomas 1985; Thomas 1896; Thomas 1914

Chironax
Temminck 1825; Walker 1968

Chironax melanocephalus
Hill 1961; Hill 1974; Hill and McNeely 1975; Hill and Thonglongya 1972

Cynopterus
Ashfaq and Tungare 1960; Cooper and Bhatnagar 1975; Gopalakrishna 1971; Gopalakrishna and Murthy 1960; Karim, Wimsatt, and Gopalakrishna 1978; Matskasi 1973; Prasad 1974; Van Peenen 1968; Yong and Dhaliwal 1976

Cynopterus angulatus
Hill and Thonglongya 1972

Cynopterus brachyotis
Baron 1977a; Baron 1977b; Bhima Rao, Devaraj Sarkar, and Pilo 1975; Brown, Cross, Van Peenen, Carney, and Saroso 1974; Fain 1973; Heurn 1929; Hill and McNeely 1975; Lavoipierre and Rajamanickam 1968; Lavoipierre, Rajamanickam, and Ward 1967; Lim 1970; Masbar, Palmieri, Marwoto, and Darwis 1981; Snyder 1976; Stiller and Sullivan 1977; Van Peenen, Hoogstraal, Duncan, and Ryan 1968; Yap, Lim, de Witt, Krishnasamy, Sivanandam, and Yen 1977; Yong, Dhaliwal, Boo-Liat, Kok-Leng, and Start 1973

Cynopterus brachyotis angulatus
Saha 1980; Salaun, Klein, and Hebrard 1974

Cynopterus brachyotis javanicus
Ando, Tagawa, and Uchida 1980

Cynopterus eonycteris
Bhat 1974

Cynopterus horsfieldii
Baron 1977a; Baron 1977b; Hill and McNeely 1975; Masbar, Palmieri, Marwoto, Purnomo, and Darwis 1981; Stiller and Sullivan 1977; Yong, Dhaliwal, Boo-Liat, Kok-Leng, and Start 1973

Cynopterus marginatus
Puranik, Gopalakrishna, and Chari 1976a; Puranik, Gopalakrishna, and Chari 1976b

Cynopterus sphinx
Advani 1982; Bhat, Sreenivasan, Goverdhan, Naik, and Banerjee 1978; Chaturvedi 1969; Cooper and Bhatnagar 1975; Cooper and Bhatnagar 1976; Gaisler and Barus 1978; Harada, Minezawa, Takada, Yenbutra, Nunpakdee, and Ohtani 1983; Hill and McNeely 1975; Khaparde 1979; McCann 1940a; Mitchell and Punzo 1976; Moghe 1956; Mokkaapati and Dominic 1976; Mokkaapati and Dominic 1977; Nalavade and Varute 1973b; Phillips 1935; Prasad 1974; Ramakrishna 1947; Sinha 1981; Topal 1974; Yong, Dhaliwal, Boo-Liat, Kok-Leng, and Start 1973

Cynopterus sphinx gangeticus
Gopalakrishna and Karim 1971; Moghe 1956; Pathak 1965a; Pathak and Raychaudhuri 1966; Vamburker 1958

Cynopterus sphinx serasani
Paradiso 1971

Cynopterus sphinx sphinx
Mote and Nalavade 1982

Cynopterus sphinx titthaechelilus
Ando, Tagawa, and Uchida 1980

Cynopterus variegatus
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Cynopterus volans
Ward 1968

Dobsonia
Beaufort 1913; Hill 1956; Jentink 1887; Jentink 1906; Pohle 1952; Rabor 1952; Tate 1942; Troughton 1936

Dobsonia anderseni
Bergmans 1975b; Thomas 1914

Dobsonia beauforti
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Dobsonia exolata
Andersen 1909

Dobsonia inermis
Andersen 1909; Bergmans 1975b; Bergmans 1979b

Dobsonia inermis minimus
Phillips 1968

Dobsonia minor
Bartholomew, Dawson, and Lasiewski 1970

Dobsonia moluccensis
Andersen 1909; Bergmans 1975b; Dwyer 1975; Goff 1980;
Hyndman and Menzies 1980; Menzies 1977

Dobsonia moluccensis magna
Bergmans 1975b

Dobsonia pannietensis
Andersen 1909; Bergmans 1975b; Bergmans 1979b; De Vis
1905; Lidicker and Ziegler 1968; Tate 1940; Thomas 1895;
Thomas 1896; Thomas 1914

Dobsonia pannietensis remota
Goff 1980

Dobsonia peronii grandis
Bergmans 1978b

Dobsonia remota
Bergmans 1979b; Cabera 1920

Dobsonia viridis
Bergmans 1975b

Dyacopterus spadiceus
Kock 1969c; Peterson 1969; Start 1975

Eidolon
Baker and Harris 1957; Okon 1974c; Wilson 1973a; Yong and
Dhaliwal 1976

Eidolon gambianus
Baker and Harris 1959

Eidolon helvum
Adeosun 1974; Aderounmu 1973; Ayensu 1974b; Balogun
1975; Bergmans 1978a; Bergmans 1979a; Bergmans, Bellier,
and Vissault 1975; Blackwell 1967; Church 1970; Church and
Warren 1968; Coe and Isaac 1965; Di Maio and Tonndorf
1978; Du Preeze 1969; Dusbabek and Bergmans 1980;
Eisentraut 1964; Eisentraut 1973; Erkert 1970; Fayenuwo and
Halstead 1974; Folayan, Okunade, and Ngaha 1979;
Funmilayo 1976; Funmilayo 1979; Guillon 1976; Guillon and
Gresser 1978; Guillon, Vincent, Boche, Launay, Heme, and
Benoist 1975; Halstead 1977; Harris and Baker 1959; Hayman
1967; Jaeger 1945; Jaeger 1974; Jones 1972; Kemp, Causey,
Moore, Odelola, and Fabiyi 1972; Kock 1972; Koopman,
Mumford, and Heisterberg 1978; Kuhn 1965; Kulzer 1968a;
Kulzer 1968b; Kulzer 1969b; Mainoya and Howell 1979;
Malangnoux and Gautun 1976; Mutere 1968a; Mutere 1968b;

Ogilvie 1964; Ogunbiyi and Okon 1976; Okon 1977; Okon
and Ekanem 1979; OKon, Umukora, and Ajudua 1978; Rice,
Kamugisha, and Sebugwawo 1972; Rousselot 1950;
Schouteden 1947; Shope and Tignor 1971; Stiller and Sullivan
1977; Swynnerton and Hayman 1950; Verschuren 1976;
Verschuren 1980

Eidolon helvum sabelum
Heran 1965

Eonycteris
Ellerman and Morrison-Scott 1951; Van Peenen 1968

Eonycteris robusta
Miller 1913

Eonycteris spelaea
Ando, Tagawa, and Uchida 1980; Baron 1977a; Baron 1977b;
Beck and Lim 1973; Bhat 1968; Bhat, Sreenivason,
Goverdhan, Naik, and Banerjee 1978; Bhat, Sreenivasan, and
Jacob 1980; Bhattacharya 1975; Doyle 1970; Gould 1978;
Gould 1979; Harada, Minezawa, Takada, Yenbutra,
Nunpakdee, and Ohtani 1983; Heide 1927; Hill and McNeely
1975; Howell and Hodgkin 1976; Kamiya and Porlot 1975;
Klumpen, Lukoschus, Fain, and Nadchatram 1982; Krutzsch
and Beck 1975; Quay 1970; Soepadmo and Eow 1977; Start
1974; Start and Marshall 1976; Stiller and Ranchitham 1975;
Stiller, Sivanandam, and Hassan 1975; Stiller and Sullivan
1977; Wells and Labang 1974; Yong and Dhaliwal 1976

Epomophorus
Aellen 1952; Dobson 1881; Fenton 1975; Hayman 1967;
Hayman, Misonne, and Verheyen 1966; Kock 1972; Koopman
1975; Matschie 1899; Quay 1969; Wilson 1973a

Epomophorus anurus
Adam and Hubert 1972; Funaioli and Lanza 1968; Okia
1974a; Poescher 1972; Verschuren 1980; Viellard 1974

Epomophorus crypturus
Ansell and Ansel 1973; Peterson and Nagorsen 1975

Epomophorus franqueti buettikoferi
Poescher 1972

Epomophorus gambianus
Ansell 1960; Ayensu 1974b; Baker and Harris 1957; Bergmans
1978a; De Vree 1971; Eisentraut 1973; Hoehne, Loose, and
Seeliger 1975; Howell and Hodgkin 1976; Kock 1977;
Peterson and Nagorsen 1975; Poche 1975; Rosevear 1965;
Rousselot 1950; Thomas and Fenton 1978

Epomophorus labiatus
Bergmans 1979a; Gallagher and Harrison 1977; Kingdon 1973

Epomophorus pousarquesi

Aellen 1950; Allen 1939a; Bergmans 1978c; Dobson 1878; Dybowski 1893; Pousargues 1896; Trouessart 1904; Viellard 1974

Epomophorus reii

Aellen 1950

Epomophorus wahlbergi

Ansell and Ansel 1973; Dulic and Mutere 1977; Miltgen, Landau, Rosin, and Erard 1977; Maina, King, and King 1982; Peterson and Nagorsen 1975; Puescher 1972; Sowler 1980; Wickler and Seibt 1975; Wickler and Seibt 1976

Epomophorus wahlbergi haldemani

Bergmans 1979a; Verschuren 1980

Epomops

Adam and Landau 1970; Eisentraut 1963; Quay 1969; Rosevear 1953; Rosevear 1965; Wickler and Seibt 1975; Wilson 1973a

Epomops buettikoferi

Bergmans 1975a; Bergmans, Bellier, and Vissault 1975; De Vree 1971; Hayman 1967; Bergmans 1982; Verschuren 1976

Epomops dobsonii

Bergmans 1979c

Epomops franqueti

Bergmans 1975a; Bergmans 1979a; Blackwell 1967; De Vree 1971; De Vree and van der Straeten 1971; Eisentraut 1973; Gallagher and Harrison 1977; Haiduk, Baker, Robbins, and Schlitter 1981; Haiduk, Robbins, Robbins, and Schlitter 1980; Jones 1972; Miltgen, Landau, Rosin, and Erard 1977; Okia 1974b; Peterson and Nagorsen 1975; Pye and Hinchcliffe 1968; Williams 1977

Epomops franqueti strepitans

Bergmans, Bellier, and Vissault 1975; Hayman 1967; Rosevear 1965

Hypsignathus

Bergmans 1978a; Wickler and Seibt 1975; Wilson 1973a

Hypsignathus monstrosus

Allen, Lang, and Chapin 1917; Ayala, Bradbury, and Bradbury 1981; Bergmans 1978a; Bergmans 1979a; Bergmans, Bellier, and Vissault 1975; Bogart, Kumamoto, and Benirschke 1977; Haiduk, Baker, Robbins, and Schlitter 1981; Haiduk, Robbins, Robbins, and Schlitter 1980; Koopman, Mumford, and Heisterberg 1978; Miltgen, Landau, and Bradbury 1980; Moruzzi 1979; Quay 1969; Robbins 1980; Van Deusen 1968; Verschuren 1976; Wrangham 1980

Latidens salimalii

Thonglongya 1972

Lissonycteris

Haiduk, Robbins, Robbins, and Schlitter 1980; Lawrence and Novick 1963

Lissonycteris angolensis

Adam and Landau 1970; Adam and Le Pont 1974; Bergmans 1979a; Haiduk, Baker, Robbins, and Schlitter 1981; Landau and Adam 1971

Lissonycteris angolensis smithi

Adam and Hubert 1972; Taufflieb 1972;

Macroglossus

Ellerman and Morrison-Scott 1951; Van Peenen 1968

Macroglossus lagochilus

Yong and Dhaliwal 1976

Macroglossus minimus

Ando, Tagawa, and Uchida 1980; Desch 1981; Gould 1978; Domrow 1981; Kniest and Lukoschus F. S 1981; Start and Marshall 1976; Yong and Dhaliwal 1976

Macroglossus sobrinus

Gould 1978; Start and Marshall 1976

Megaerops

Van Peenen 1968

Megaerops ecaudatus

Harada, Minezawa, Takada, Yenbutra, Nunpakdee, and Ohtani 1983; Hill and Thonglongya 1972; Hill and McNeely 1975;

Megaerops kusnotoi

Hill and Boeady 1978

Megaloglossus

Wilson 1973a

Megaloglossus woermanni

Adam and Le Pont 1974; Bergmans 1979a; Bergmans, Bellier, and Vissault 1975; Bergmans and Van Bree 1972; Czekala and Benirschke 1974; Eisentraut 1963; Eisentraut 1964; Eisentraut 1973; Fain 1975; Haiduk, Baker, Robbins, and Schlitter 1981; Haiduk, Robbins, Robbins, and Schlitter 1980; Happold and Happold 1978; Kock 1972; Verschuren 1976

Megaloglossus woermanni prigoginei

Bergmans and Van Bree 1972

Micropteropus

Wilson 1973a

Micropteropus grandis

Bergmans 1979a

Micropteropus pusillus

Ansell 1974; Baker and Harris 1959; Bergmans 1979a; Bergmans, Bellier, and Vissault 1975; Eisentraut 1973; Gallagher and Harrison 1977; Haiduk, Baker, Robbins, and Schlitter 1981; Haiduk, Robbins, Robbins, and Schlitter 1980; Harris and Baker 1958; Hill and Morris 1971; Jones 1972; Kock 1972; Koopman, Mumford, and Heisterberg 1978; Orshoven and Van Bree 1968; Viellard 1974; Zumpt and Elliott 1970

Myonycteris

Bergmans 1980a; Wilson 1973a

Myonycteris brachycephala

Bergmans 1976

Myonycteris leptodon

Bergmans 1976

Myonycteris torquata

Bergmans 1976; Bergmans 1979a; Bergmans, Bellier, and Vissault 1975; De Vree 1971; Gallagher and Harrison 1977; Haiduk, Baker, Robbins, and Schlitter 1981; Haiduk, Robbins, Robbins, and Schlitter 1980; Happold and Happold 1978; Hill 1983; Landau and Adam 1971

Myonycteris torquata leptodon

Verschuren 1976

Myonycteris wroughtoni

Bergmans 1976

Nanonycteris

Wilson 1973a

Nanonycteris veldkampii

Baker and Harris 1957; Baker and Harris 1959; Bergmans 1982; Bergmans, Bellier, and Vissault 1975; Kock 1972; Lack 1978; Orshoven and Van Bree 1968; Verschuren 1976

Notopteris machonaldi

Clunie 1976; Watling and Pernetta 1971

Nyctimene albiventer

Bartholomew, Dawson, and Lasiewski 1970; Phillips 1968

Nyctimene major

Bartholomew, Dawson, and Lasiewski 1970; McKean 1972b

Nyctimene malaitensis

Phillips 1968

Nyctimene robinsoni

McKean 1972b

Otopteropus cartilagonodus

Kock 1969d

Paranyctimene raptor

Bartholomew, Dawson, and Lasiewski 1970

Penthetor lucasi

Kamiya and Porlot 1975

Pteropus

Agrawal and Sinha 1973; Aitken 1886; Aquatic and Wildlife Resources Division 1978; Balen 1912; Bartholomew, Leitner, and Nelson 1964; Bemmell 1974; Bhatt 1942; Birney, Jenness, and Ayaz 1976; Bredon 1932; Brenchley 1873; Brosset 1962; Carpenter 1975; Cheke and Dahl 1981; Clapp 1974; Clapp and Paradiso 1973; Davis 1947; Dev Sharma 1973; Dobson 1876; Doherty, Standfast, Domrow, Wetters, Whitehead, and Carley 1971; Domrow 1972; Domrow 1973; Drahos and Ikehara 1971; Eisenberg 1966; Eisenberg and Wilson 1978; Eisentraut and Jansen 1944; Ette, French, Smith, and Williams 1974; Ewers 1971; Ewers 1973; Ewers 1974a; Ewers 1974b; Felten 1964; Firbas 1972; Firbas and Welleschik 1973; Garnham 1973; Gopalakrishna 1971; Gopalakrishna and Rajgopal 1974; Gould 1978; Gunther 1926; Hackethal 1973; Hall 1973; Haltenorth 1975; Hamilton-Smith 1974; Harrison 1956; Herreid, Bretz, and Schmidt-Neilsen 1968; Heuglin 1865; Hill 1967; Hill 1970; Hill and Thonglongya 1972; Holyoak and Thibault 1978; Hope 1973; Hoshi 1971; Hsu and Benirschke 1973; Johnson 1962; Jones 1975; Karim, Vimsatt, and Gopalakrishna 1978; Khaparde 1979; Kitchener 1978; Kloss 1908; Koopman 1976; Krzanowski 1977; Kuroda 1933; Land Conservation Council 1973; Land Conservation Council 1974; Lane, Schoenenberger, and Huggel 1971; lanza 1969; Lavery 1973; Lay 1892; Loeb 1926; Mason 1908; McCann 1934; McKean 1972a; Meijer 1969; Miller 1907; Nalavade and Varute 1972a; Nalavade and Varute 1972b; Nalavade and Varute 1973a; Nelson 1964; Nelson 1965a; Nelson 1965b; Neuweiler 1962b; Novick 1973; O'Connor and Griffin 1955; Parker 1972; Parker 1973; Pathak and Raychaudhuri 1966; Patnaik, Paulose, Srivastava, Misra, Singh, and Kumar 1976; Perret, Huggel, and Millet 1976; Phillips 1968; Pirlot 1970; Poczipko 1971; Polunin and Procter 1973; Powell 1870; Quoy and Gaimard 1930; Ralph and Sakai 1979; Ratcliffe 1931; Ratcliffe 1932; Ratcliffe 1961; Ripley 1960; Rivett 1927; Robinson 1973; Romer 1974; Rother, Kronberger, Wendler, and Cole 1972; Ruempler 1979; Sanborn and Beecher 1947; Sanborn and Nicholson 1950; Schneider 1972; Schober and Brauer 1968; Seebeck 1977; Sharma 1973; Simmons 1973; Sinclair no date; Smith 1902; Sowerby 1943; Stephan, Pirlot, and Schneider 1974; Strickler 1978; Sussman and Raven 1978; Sykes 1970; Thomas 1882; Troughton 1930; Van Deusen 1972; Van Peenen 1968; Weber and Kallen 1971; Wheeler 1979b; Willey 1904; Wimsatt 1970a; Wimsatt 1970b; Wimsatt 1977; Wodzicki and Felton 1980; Yamashina 1932

Pteropus alecto

Jones and Maa 1976

Pteropus alecto gouldi

Gould 1863

Pteropus anetianus motalavae
Felten and Kock 1972

Pteropus anetianus pastoris
Felten and Kock 1972

Pteropus arquatus
Jones 1973; Jones and Maa 1976

Pteropus dasymallus
Kowalski 1976

Pteropus dasymallus yayeyamae
Morii 1975

Pteropus edulis
Tickell 1843

Pteropus eotinus
Baker and Baker 1936

Pteropus fundantus
Felten and Kock 1972

Pteropus funereus
Meyer 1974

Pteropus geddiei
Andrews 1900; Baker 1929; Baker and Baker 1936; Sanborn 1931

Pteropus giganteus
Advani 1982; Allen 1939b; Bababunmi, Smith, and Williams 1973; Bakr and Shami 1974; Bastawde and Mahabal 1976; Bhardwaj and Lall 1979; Bhardwaj, Lall, and Jodphur 1982; Breadon 1931; Chakraborty and Chakravarty 1983; Cooper and Bhatnagar 1975; Cooper and Bhatnagar 1976; Cotter and Pierson Pentney 1978; Cotter and Pierson Pentney 1979; Czarnecki and Kallen 1980; Datta 1977; De Gueldre and De Vree 1982; Edvinsson, Huggel, Nielsen, and Owman 1974; Ehinger 1973; Ferrar 1934; Folsch 1967; Ginther 1967; Gopalakrishna, Madhavan, Thakur, and Rajgopal 1974; Gopalakrishna, Phansalkar, and Sahasrabudhe 1970; Gupta, Mathur, and Yadav 1981; Howland, Murphy, Kwiecinski, Kern, and Kallen 1982; Huggel, Johansson, and Peristiany 1973; Idle, Milburn, and Williams 1975; Jaroli and Lall 1980a; Jaroli and Lall 1980b; Khan and Bakr 1974; Kobayashi, Uemura, Wada, and Takei 1978; Lewis 1977; Marshall 1947; Marshall 1953; Mathur, Gupta, and Mathur 1979; McCann 1933; McCann 1941; Mitchell and Punzo 1976; Moghe 1951; Murphy, Kwiecinski, Howland, Kern, and Kallen 1982; Nalavade and Varute 1973b; Neuweiler 1962a; Oommen and Alexander 1982; Pathak 1965b; Pathak and Raychaudhuri 1966; Pedler and Tilley 1969; Pentney and Cotter 1981; Peristiany and Huggel 1971; Peristiany and Huggel 1973; Peristiany, Huggel, and Bisetti 1978; Peristiany, Lane, and Huggel 1971; Prasad 1974; Radovsky 1967;

Rajalakshmi and Prasad 1970; Rao and Maiti 1981; Romanini, Pellicciari, Bolchi, and Capanna 1975; Sanyal 1892; Sapkal and Gadegone 1979; Sapkal and Gadegone 1980; Schoenenberger and Lane 1971; Scott 1925; Singh and Patnaik 1966; Sinha 1976; Sinha 1981; Sinha and Advani 1976; Srivastava and Bhatnagar 1967; Topal 1974; Wahlstrom 1978; Williams 1977; Worth and Shah 1969; Zack, Czeschlik, and Heldmaier 1979

Pteropus giganteus giganteus
Bhide (In press); Lall 1979; Lall 1980a; Lall 1980b; Lall 1981; Lall (In press); Sapkal and Gadegone 1981

Pteropus gilliardi
Van Deusen 1969

Pteropus gouldii
Thomas 1975

Pteropus hypomelanus
Gaisler and Barus 1978; Hill and Thonglongya 1972; Krishnasamy, Singh, and Iyamperumal 1981

Pteropus hypomelanus geminorum
Hill 1971

Pteropus hypomelanus moris
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Pteropus insularis
Bruner and Pratt 1979

Pteropus intermedius
Kamiya and Porlot 1975; Scott 1925

Pteropus livingstonii
Dahl 1979

Pteropus lombocensis
Kock 1974

Pteropus lylei
Mettler 1975

Pteropus mahaganus
Van Deusen 1969

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Anderson 1980; Bryan 1939; Drahos and Strong 1962; Linsley 1934; Nicholson 1945; Perez 1968; Perez 1972; Perez 1973; USDI (United States Department of Interior) 1979; Wheeler 1979a; Wheeler 1980a; Wheeler 1980b; Wheeler and Aguon 1978

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Fletcher 1906; Fletcher 1907

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Pteropus notopteris

Wilson 1973b

Pteropus niger

Moutou 1982

Pteropus pelewensis

Owen 1977; Perez 1968

Pteropus poliocephalus

Bogart, Kumamoto, and Benirschke 1977; Card and Compans 1970; Crowle 1973; Gard and Marshall 1973; Manley and Williams 1979; Pal, Arora, Chhuttani, Broor, Choudhury, Joshi, and Ray 1980; Robinson 1982; Zook, Sauer, and Garner 1970

Pteropus rodricensis

Carroll 1978; Carroll 1979; Pook 1978

Pteropus rufus

Brygoo and Mayoux 1973; Brygoo and Rajenison 1971; Brygoo, Simond and Mayoux 1971; Coulanges, Robin, Le Gondidec, Mayoux, and Bordahandy 1975; Firbas and Sinzinger 1972; Lhuillier 1978; Mayoux, Brygoo, and Simond 1971; Simond and Mayoux 1972

Pteropus samoensis

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Pteropus samoensis nawaiensis

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Pteropus satyrus

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Pteropus seychellensis

Cook 1979; Dahl 1979; Maijels 1979; Suttie 1979

Pteropus seychellensis seychellensis

Nicoll 1981

Pteropus subniger

Moutou 1982

Pteropus tokudae

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Pteropus tonganus

Diamond and Lecroy 1979; Hill 1979; Marinkelle 1979; Wilson and Wodzicki 1977

Pteropus tuberculatus

Troughton 1927

Pteropus tytleri

Hill 1971

Pteropus woodfordi

Van Deusen 1969

Pteropus yampyrus

Burck 1892; Gould 1977; Hatten, Lutskus, and Sulkin 1973; Schipp 1978; Suyanto 1979; Tibayrenc, Bain, and Ramachandran 1979

Rousettus

Adam and Landau 1970; Bergmans 1980b; Bhat 1974; El-Sabban, Fouad, Hussein, and Sadek 1967; Flower 1932; Gaisler, Madkour, and Pelikan 1972; Gopalakrishna 1971; Grasse 1805; Griffin 1974; Haiduk, Baker, Robbins, and Schlitter 1981; Harrison 1964; Johnson and Titlebaum 1976; Kingdon 1974; Kock 1969a; Kulzer 1958; Kulzer 1960; Kulzer 1963; Kulzer 1966a; Kulzer 1969c; Madkour 1975b; Madkour 1976c; Madkour 1976d; Neuweiler 1967; Norton and van der Merwe 1978; Puranik, Gopalakrishna, and Chari 1976a; Pya 1970; Summrs and Suthers 1982; van der Westhuyzen 1975; Van Peenen 1968; Verschuren 1980; Wilson 1973a; Yong and Dhaliwal 1979

Rousettus aegyptiacus

Anderson 1902; Baranga 1978; Baranga 1980; Barus 1973; Bergmans 1978a; Brennan, Cantrill, Warner, van der Westhuyzen, Fernandes-Costa, Kramer, and Metz 1980; Brennan, Cantrill, Warner, van der Westhuyzen, Fernandes-Costa, Kramier, and Metz 1981; Brown 1973; Buckland-Wright 1972; Castillo and Lehmann 1977; Cotter 1981a; Cotter 1981b; Cunningham van Someren 1972; Cyprus 1978; Cyprus 1979; Deblase 1980; Di Maio and Tonndorf 1978; Eisentraut 1959a; El-Sabban, Fouad, Hussein, and Sadek 1967; Erkert 1970; Erkert 1976; Erkert, Bay, and Kracht 1976; Gaisler and Barus 1978; Green, Myers, and Jacobsen 1979; Green, van Tonder, Cole, and Metz 1974; Green, van Tonder, Oettle, Cole, and Metz 1975; Hilali, and Fouda 1978; Haiduk, Baker, Robbins, and Schlitter 1981; Hattingh 1973; Hayman and Hill 1971; Hussein, Mohamed, and Elashry 1979; Kaisila 1966; Keegan 1975; Keegan 1976; Keegan 1977a; Keegan 1977b; Keegan 1979; Keegan 1980; Keegan 1982; Keegan and Levine 1980; Keegan, Levine, and Balgobind 1980; Keegan and Modinger 1977; Keegan and Modinger 1979; Keegan and van der Westhuyzen 1976; Kleinschmidt and Braunitzer 1982; Klima and Gaisler 1968; Kloes 1908;

Koopman 1966; Kulzer 1966b; Kulzer 1969a; Laburn and Mitchell 1975; Levine, Glassman, Cornelius, Hattingh, and Ross 1980; Levine, Keegan, Coetzer, and Wright 1980; Luck and Keegan 1972; Madkour 1975a; Madkour 1976a; Madkour 1976b; Madkour 1976c; Madkour 1977a; Madkour 1977b; Madkour 1978; Mainoya and Howell 1979; Miller, Fernandes-Costa, and Metz 1980; Mutere 1968a; Mutere 1973; Nader 1975; Noll 1979a; Noll 1979b; Norberg 1972; Orshoven and Van Bree 1968; Pennycuick 1971; Pennycuick 1973; Peristiany and Huggel 1973; Perry, Lumb, van der Westhuyzen, Fernandes-Costa, Metz, and Chanarin 1979b; Qumsiyeh 1980; Saoud and Ramadan 1976; Schoenenberger and Lane 1971; Start 1972; Suthers 1977; Suthers and Summers 1980; Swanepoel 1975; Thomas and Fenton 1978; Trevisi, Pagani, and Sirigu 1972; van der Westhuyzen 1976; van der Westhuyzen 1978a; van der Westhuyzen 1978b; van der Westhuyzen 1982; van der Westhuyzen, Cantrill, Fernandes-Costa, and Metz 1981; van der Westhuyzen, Cantrill, Fernandes-Costa, and Metz 1983; van der Westhuyzen and Fernandes-Costa 1976; van der Westhuyzen, Fernander-Costa, and Metz 1982b; van der Westhuyzen, Lashansky, and Cantrill 1982a; van der Westhuyzen, Lashansky, and Cantrill 1982b; van der Westhuyzen, Pseba, Fernandes-Costa, Metz, Kanazawa, Drivas, and Herbert 1982; van Tonder, Metz, and Green 1975a; van Tonder, Metz, and Green 1975b; Youdeowei 1975

Rousettus aegyptiacus leachi

Ancianx 1976; Dulic and Mutere 1977; Herzig-Straschil and Robinson 1978; Jacobsen and du Plessis 1976; Perry, Lumb, van der Westhuyzen, Fernandes-Costa, Metz, and Chanarin 1979a; Perry, Lumb, van der Westhuyzen, Fernandes-Costa, Metz, and Chanarin 1980

Rousettus aegyptiacus occidentalis

Verschuren 1976

Rousettus aegyptiacus unicolor

Adam and Le Pont 1974; Bergmans 1979a; Bergmans, Bellier, and Vissault 1975

Rousettus amplexicaudatus

Goff 1981; Grinnel and Hagiware 1972; Kao 1976; Madkour 1976c; Roberts 1975

Rousettus angolensis

Eisentraut 1965; Haiduk, Robbins, Robbins, and Schlitter 1980; Hayman and Hill 1971; Howell 1979; Klim and Gaisler 1968; Largen, Kock, and Yalden 1974; Mainoya and Howell 1979; Verschuren 1980

Rousettus angolensis smithi

Koopman, Mumford, and Heisterberg 1978; Verschuren 1976

Rousettus dentalis

Verschuren 1976

Rousettus lanosus

Bergmans 1982; Hayman and Hill 1971

Rousettus lanosus kempi

Theodor 1979

Rousettus leachi

Stiller and Sullivan 1977

Rousettus leschenaulti

Advani 1982; Banerjee, Ilkal, Bhat, and Sreenivasan 1979; Bedekar and Pavri 1969; Bhat, Sreenivasan, Goverdhan, Naik, and Banerjee 1978; Bhide 1980; Cooper and Bhatnagar 1975; Cooper and Bhatnagar 1976; Gadegone and Sapkal 1981; Gadkari, Banerjee, and Bhat 1976; Gopalakrishna 1964; Gopalakrishna 1969a; Gopalakrishna and Choudhari 1977; Gopalakrishna and Karim 1972; Gopalakrishna and Karim 1974; Gopalakrishna and Madhavan 1970; Gupta and Agarwal 1973; Harada, Minezawa, Takada, Yenbutra, Nunpakdee, and Ohtani 1983; Hill and McNeely 1975; Karim 1973; Karim 1975; Karim, Wimsatt, Enders, and Gopalakrishna 1979; Karim, Wimsatt, and Gopalakrishna 1978; Khaparde 1979; Madkour 1976c; McCann 1940b; McCann 1941; Mirza 1967; Mitchell and Punzo 1976; Pathak 1966; Pathak and Raychaudhuri 1966; Paul, Rajagopalan, and Sreenivasan 1970; Pavri, Singh, and Hollinger 1971; Prasad 1974; Sabnis 1973; Sinha 1976; Sinha 1981; Sreenivasan, Bhat, and Geevarghese 1974; Sreenivasan, Bhat, Naik, and Banerjee 1979; Topal 1974; Uchikawa and Suzuki 1980; Walton 1974; Worth and Shah 1969

Rousettus madagascariensis

Bergmans 1977; Grandidier 1928

Rousettus seminudus

Sinha 1968

Rousettus stresemanni

Menzies 1977

Scotonycteris

Bergmans 1979a; Eisentraut 1959b; Hayman 1946; Wilson 1973a

Scotonycteris crasse papiana

Fain 1978

Scotonycteris ophiodon

Bergmans 1973; Bergmans 1979a; Cansdale 1948; Haiduk, Baker, Robbins, and Schlitter 1981; Haiduk, Robbins, Robbins, and Schlitter 1980; Novick 1958a; Pohle 1942; Hill 1982

Scotonycteris zenkeri

Bergmans 1979a; Bergmans, Bellier, and Vissault 1975; Hayman 1947; Kuhn 1962