

**TABLE S1.** Mammal species recorded in different environmental archives fo

<b>Order</b>	<b>Family</b>	<b>Genus</b>	<b>Species</b>
Proboscidae	Elephantidae	Elephas	maximus
Scandentia	Tupaiaidae	Tupaia	belangeri
Primates	Cercopithecidae	Macaca	mulatta
Primates	Hylobatidae	Nomascus	hainanus
Rodentia	Sciuridae	Ratufa	bicolor
Rodentia	Sciuridae	Belomys	pearsonii
Rodentia	Sciuridae	Hylopetes	alboniger
Rodentia	Sciuridae	Hylopetes	phayrei
Rodentia	Sciuridae	Petaurista	philippensis
Rodentia	Sciuridae	Callosciurus	erythraeus
Rodentia	Sciuridae	Dremomys	pyrrhomerus
Rodentia	Sciuridae	Tamiops	maritimus
Rodentia	Cricetidae	Microtus	sp.
Rodentia	Muridae	Bandicota	indica
Rodentia	Muridae	Chiropodomys	gliroides
Rodentia	Muridae	Hapalomys	delacouri
Rodentia	Muridae	Leopoldamys	edwardsi
Rodentia	Muridae	Mus	caroli
Rodentia	Muridae	Niviventer	fulvescens
Rodentia	Muridae	Niviventer	tenaster
Rodentia	Muridae	Rattus	andamanensis
Rodentia	Muridae	Rattus	losea
Rodentia	Muridae	Rattus	nitidus
Rodentia	Muridae	Rattus	norvegicus
Rodentia	Muridae	Rattus	tanezumi
Rodentia	Hystricidae	Atherurus	macrouros
Rodentia	Hystricidae	Hystrix	brachyura
Lagomorpha	Leporidae	Lepus	hainanus
Erinaceomorpha	Erinaceidae	Neohylomys	hainanensis
Soricomorpha	Soricidae	Crocidura	attenuata
Soricomorpha	Soricidae	Crocidura	rapax
Soricomorpha	Soricidae	Crocidura	wuchihensis
Soricomorpha	Soricidae	Suncus	murinus
Soricomorpha	Talpidae	Mogera	insularis
Chiroptera	Pteropodidae	Cynopterus	sphinx
Chiroptera	Pteropodidae	Rousettus	leschenaultii
Chiroptera	Rhinolophidae	Rhinolophus	affinis
Chiroptera	Rhinolophidae	Rhinolophus	cornutus
Chiroptera	Rhinolophidae	Rhinolophus	luctus
Chiroptera	Rhinolophidae	Rhinolophus	pusillus

Chiroptera	Rhinolophidae	Rhinolophus	sinicus
Chiroptera	Hipposideridae	Coelops	frithii
Chiroptera	Hipposideridae	Hipposideros	armiger
Chiroptera	Hipposideridae	Hipposideros	larvatus
Chiroptera	Hipposideridae	Hipposideros	pomona
Chiroptera	Hipposideridae	Hipposideros	pratti
Chiroptera	Megadermatidae	Megaderma	lyra
Chiroptera	Emballonuridae	Taphozous	melanopogon
Chiroptera	Molossidae	Chaerephon	plicatus
Chiroptera	Vespertilionidae	Hypsugo	pulveratus
Chiroptera	Vespertilionidae	Pipistrellus	abramus
Chiroptera	Vespertilionidae	Pipistrellus	ceylonicus
Chiroptera	Vespertilionidae	Pipistrellus	tenuis
Chiroptera	Vespertilionidae	Scotomanes	ornatus
Chiroptera	Vespertilionidae	Scotophilus	heathii
Chiroptera	Vespertilionidae	Scotophilus	kuhlii
Chiroptera	Vespertilionidae	Myotis	chinensis
Chiroptera	Vespertilionidae	Myotis	dauidii
Chiroptera	Vespertilionidae	Myotis	horsfieldii
Chiroptera	Vespertilionidae	Myotis	laniger
Chiroptera	Vespertilionidae	Myotis	siligorensis
Chiroptera	Vespertilionidae	Miniopterus	magnater
Chiroptera	Vespertilionidae	Miniopterus	pusillus
Chiroptera	Vespertilionidae	Miniopterus	schreibersii
Chiroptera	Vespertilionidae	Harpiocephalus	sp.
Chiroptera	Vespertilionidae	Murina	cyclotis
Chiroptera	Vespertilionidae	Kerivoula	hardwickii
Chiroptera	Vespertilionidae	Kerivoula	picta
Pholidota	Manidae	Manis	pentadactyla
Carnivora	Felidae	Prionailurus	bengalensis
Carnivora	Felidae	Neofelis	nebulosa
Carnivora	Felidae	Panthera	tigris
Carnivora	Canidae	Canis	lupus
Carnivora	Canidae	Cuon	alpinus
Carnivora	Viverridae	Paguma	larvata
Carnivora	Viverridae	Paradoxurus	hermaphroditus
Carnivora	Viverridae	Viverra	zibetha
Carnivora	Viverridae	Viverricula	indica
Carnivora	Herpestidae	Herpestes	javanicus
Carnivora	Herpestidae	Herpestes	urva
Carnivora	Ursidae	Ursus	thibetanus
Carnivora	Mustelidae	Aonyx	cinerea
Carnivora	Mustelidae	Lutra	lutra
Carnivora	Mustelidae	Arctonyx	collaris

Carnivora	Mustelidae	Martes	flavigula
Carnivora	Mustelidae	Melogale	moschata
Carnivora	Mustelidae	Mustela	kathiah
Perissodactyla	Tapiridae	Tapirus	sp.
Artiodactyla	Suidae	Sus	scrofa
Artiodactyla	Cervidae	Muntiacus	muntjak
Artiodactyla	Cervidae	Muntiacus	reevesi
Artiodactyla	Cervidae	Rucervus	eldii
Artiodactyla	Cervidae	Rusa	unicolor
Artiodactyla	Cervidae	Elaphodus	cephalophus
Artiodactyla	Cervidae	Elaphurus	davidianus
Artiodactyla	Bovidae	Bubalus	sp.
Artiodactyla	Bovidae	Capricornis	sp.

**TOTALS:**

**Notes:**

Taxonomy of Luobidong fauna from Hao & Huang (1998) corrected to Smith  
Holocene fossil material referred to in genus-level open nomenclature by H:

r Hainan, compared with species known from Hainan's current-day fauna.

<b>Luobidong</b> <i>Data source: Hao &amp; Huang 1998</i>	<b>Difangzhi record</b> <i>Data source: Hong 1993</i>	<b>ancient DNA analysis</b> <i>Data source: Turvey et al. 2017</i>
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Li & Xie (2013)

Wang & Huang (1998) recognised here as specific species if only one congener is otherwise known







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