Index

Ailuropoda melanoleuca, 9
Ailuropodinae, 7
Alaska, 49
Alces alces, 38
American black bear, 62
  activity patterns, 127
  adaptability, 60
  behavior, 130
  connectivity, 328
  conservation status, 131
  denning and hibernation, 59
  food, 127
  habitat, 126
  home range, 57
  movements and home range, 126
  mtDNA, 10
  parasites and diseases, 131
  reproduction and growth, 129
  size, 124
  status in captivity, 132
  subspecies and distribution, 123
  taxonomy, 123
  Ursus americanus, 4
Andean bear, 4, 9
  activity patterns, 81
  behavior, 82
  conservation status, 83
  food, 81
  habitat, 80
  movements and home range, 81
  parasites and diseases, 83
  reproduction and growth, 82
  status in captivity, 84
  subspecies and distribution, 79
  taxonomy, 79
Arctotherium angustidens, 7
Asia, 45
Asiatic black bear
  activity patterns, 115
  conservation status, 117
  food, 115
  habitat, 113
  movements and home range, 115
  parasites and diseases, 117
  range overlap, 48
  reproduction and growth, 116
  size, 113
  status in captivity, 118
  subspecies and distribution, 111
  taxonomy, 111
Assam, 51

Bangladesh, 51
bear attacks on humans
  American black bear, 242, 246
  Asiatic black bear, 241, 245
  behavior, 239
  brown bear, 243
  Europe, 239
  polar bear, 244
  sloth bear, 240, 245
  sun bear, 239
bear predation, 38
Bhutan, 50
black bears, 49
Borneo, 45

Cambodia, 48
canid, 41
captive bears
  Asia, 364
  bear baiting, 366
  bear bile farming, 366
  bear dancing, 364
  bear farm and bile, 364
  welfare, 364
caribou, 38
Carnivora, 3
Cervus canadensis, 38
Cervus elaphus, 38
China, 48
classification of the extant Ursidae, 4
classification of the Ursidae, 5
climate change
  bears, 303
  conservation implications, 306
  conservation implications for panda, 309
  impact on panda, 307
  impact on polar bear, 305
  modeling, 310
  panda, 303, 307
  panda habitat, 307
  polar bear, 303
  polar bear habitat, 304
  polar bear populations, 305
  sea ice, 304
collisions. *see mortality 217*
Colombia, 9
common ancestor, 48
common ancestor of all living bears, 7
communication, 27
competing bear species, 45
competition between carnivores, 36
connectivity
  Andean bear, 325
  Asiatic black bear, 327
  brown bear, 318
  brown bear Eurasia, 321
  brown bear North America, 318
  panda, 322
  polar bear, 317
  sloth bear, 324
  sun bear, 329
conservation and management
  American black bear, 293
  artificial feeding, 291
  Asia, 274, 292
  bears, 273
  connectivity, 279
  DNA, 286
  future for bears, 293
  habitat, 275
  human-caused mortality, 276, *see 904–905*
  human–bear conflict, 289
  illegal trade, 291
  mortality, 283
  North American brown bear, 293
  population fragmentation, 279
  population trend, 285
  protected areas, 278
  successful, 274
  support, 282
  trapping and tagging, 285
conservation genetics, 11
coyotes, 41
cubs, 55

DNA research and monitoring of bears, 12

ecological corridors
  Asiatic black bear, Japan, 356
  DNA analyses, 361
  modeling, 358
  population structure, 361
Ecuador, 9
elk, 38
Eocene, 6
Eurasian brown bear, 4, 11, 25
  activity patterns, 148
  Apennine mountains, 264
  behavior, 151
  Cantabrian mountains, 260
  conservation status, 154
  food, 148
  habitat, 145
  hibernation and denning, 152
  Hokkaido, Japan, 349
  management in Hokkaido, 350
  management in national parks, Japan, 353
  management in Sapporo, Japan, 352
  movements and home range, 147
  parasites and diseases, 153
  Pindos mountains, 266
  reproduction and growth, 149
  size, 144
  small populations, 267
  status in captivity, 154
  subspecies and distribution, 141
  taxonomy, 140
Eurasian lynx, 40
Eurasian Regional Association of Zoos and Aquaria (EARAZA), 339
European Association of Zoos and Aquaria (EAZA), 339
ex situ conservation
  bear demography and genetics, 341
  bear lifespan, 340

© in this web service Cambridge University Press www.cambridge.org

ex situ conservation (cont.)
bear management, 339
bears, 338
cub rehabilitation, 343
education, 342
Europe, 340
in situ projects, 342
release projects, 345
research, 343
success and challenges, 346
zoo and rescue centers, 338
exploitation, 3

food sources, 38
fossil species, 9
fossils, 48

gall bladder, 50
geographic overlap of tropical Asian bear, 50
giant panda, 4, 9
habitat, 65
taxonomy, 64
golden jackals, 41
grizzly bear, 170

habitat loss, 3
habitats, 49
hibernation
black bear, 59
Hokkaido, 49
human dimensions
Asiatic black bear, 370
bear conflict, 370
bear management, 377
education, 375
mitigation, 374
people's attitudes, 373
perception, 371
human–bear conflict, 214
Andean bear, 213
Asiatic black bear, 214
bear attacks, 213
bear conservation, 213
brown bear, 214
compensation, 220
damage, 213
drivers, 216
economic loss, 213
environments, 227
factors and occurrence, 216
food, 219
food supply, 219
human dimensions, 218
interaction, 213
land use, 220
management, 229
Middle East, 221
mitigation measures, 218
models, 231
National Parks, North America, 221
no killing, 219
polar bear, 216, 221
predation of domestic animals, 213
public awareness and education, 220
removal, 219
shooting, trapping, poisoning, 219
sloth bear, 214
South America, 221
studies, 233
sun bear, 214
vehicle collisions, 213
human disturbance
brown bear, 250
brown bear behavior, 250
denning, 255
food, 254
habitat, 253
habituation and sensitization, 251
movement, 253
hunting, 54
hybridization, 8

India, 24, 49
interactions, 39
Iran, 49

Japan, 49
Japanese Association of Zoos and Aquaria (JAZA), 339

Kaziranga National Park, 48
killing of bears, 53

Laos, 48–9
large carnivores, 39
largest bear, 7
legal hunting. *see death, mortality 219*
litter size of black bears in Minnesota, 55
litters, 55
livestock, 39
logging, 53

Melursus malyanus malayanus, 9
Melursus thibetanus thibetanus, 10
Melursus ursinus ursinus, 10
Malaysia, 48
mating behavior, 24
mating strategies, 21
mating system, 21
Minnesota, 53
Miocene, 7
molecular genetics, 3
molecular phylogenies, 7
moose, 38
mortality, 56, *see causes, cubs*
mountain lion, 40
mtDNA, 8
muskoxen, 38
Myanmar, 48

Nepal, 47
niche overlap, 50
North America, 30
North American Association of Zoos and Aquaria (AZA), 339
North American brown bear
activity patterns, 172
behavior, 183
conservation status, 185
denning, 175
food, 173
habitat, 166
movements and home range, 170
parasites and disease, 185
reproduction and growth, 177
size, 164
status in captivity, 186
subspecies and distribution, 163
taxonomy, 163
Northern Hemisphere, 39

Oligocene, 6
Ovibos moschatus, 38

panda
activity, 67
behavior, 70
communication, 70
conservation status, 71
food, 67
movements and home ranges, 66
parasites and diseases, 71
reproduction and growth, 68
status in captivity, 74
panda bamboo specialists, 21
paws, 50
Peru, 9
Pleistocene, 7
polar bear, 4
activity patterns, 200
behavior, 201
conservation status, 204
food, 198
habitat, 199
movements and home range, 199
mtDNA, 11
overlap home ranges, 27
parasites and diseases, 202
reproduction and growth, 201
size, 198
status in captivity, 205
subspecies and distribution, 196
taxonomy, 196
population genetics, 14
predation, 36

radio-collared, 55
Rangifer tarandus, 38
red deer, 38
red fox, 41
reindeer, 38
reproductive system, 28
road mortality, 30
Russian Far East, 45
sexually selected infanticide, 29
sloth bear, 4, 10, 46
activity patterns, 102
attacks Sri Lanka, 383
behavior, 103
conflict Sri Lanka, 382
conservation status, 106
denning, 104
distribution Sri Lanka, 379
ecology Sri Lanka, 381
food, 103
habitat, 101
human interactions, 105
men's attitudes, 382
movement and home range, 102
parasites and diseases, 105
reproduction and growth, 103
size, 100
social dimensions, 379
Sri Lanka, 379
status in captivity, 107
subspecies and distribution, 100
taxonomy, 100
snow leopard, 40
South East Asian Zoo Association (SEAZA), 340
South-East Asia, 45
Sumatra, 45
sun bear, 4
activity patterns, 92
behavior, 93
conservation status, 94
food, 92
habitat, 91
movement and home range, 92
parasites and diseases, 94
reproduction and growth, 93
size, 89
status in captivity, 95
subspecies and distribution, 89
taxonomy, 88
Sus scrofa, 38

Taxon Advisory Groups (TAGs), 339
Thailand, 48–9
tiger, 40
traps, 54
tropical bear, 45

ungulates, 36
Ursidae, 3–4
ursids, 3

Venezuela, 9
Vietnam, 48

wild boar, 38
Wisconsin, 53
wolf kills, 42

Yellowstone National Park, 41

Zoo Association of Australasia (ZAA), 339–40

© in this web service Cambridge University Press www.cambridge.org