#### **Domestication** of camels began between World camel population today 3,000 and 4,000 years ago—slightly later than is about 30 million: 27 million of horses—in both the Arabian Peninsula and these are dromedaries; 3 million western Asia. are Bactrians; and only about 1,000 are Wild Bactrians. The World's Most Adaptable Traveler? Camels have adapted to some of the Earth's most demanding environments. Both dromedaries and Bactrians can go days, even weeks, About 300,000 now-feral without a drink of water. This is thanks to adaptations in its physiology, dromedaries inhabit Australia's its circulatory and digestive systems, and its ability to let its body Outback. They descend from temperature change more than any other mammal. These traits have camels imported from India in the 19th century. also helped camels keep a distance from predators. Circulation Blood cells that can swell up to three Camels see well in both bright A camel can close its These store fat, not water. times their normal size are what allow desert sun and at night. Their nostrils. This helps keep out The fat in the hump gives the camel to drink so much water. As it eyelids are semitranslucent, sand, and it also helps cool camels a reserve of energy uses water, the same cells narrow to keep which allows a camel to walk exhaled air, which helps when no vegetation is flowing, allowing the camel to become with its eyes shut. Extra-long available for grazing. conserve water more dehydrated than other mammals. eyelashes, too, protect against sand and dust.

THE MAGNIFICENT Land bridge MIGRATION 8 MY-14.500 Y About 6 million years ago,

Camelid ancestors

Best known today for inhabiting hot, arid regions of North Africa and the Middle East, as well as colder steppes and deserts of Asia, the family Camelidae had its origins in North America. The signature physical features of camels today - one or two humps, wide padded feet, well-protected eyesmay have developed first as adaptations to North American winters.

Dromedary

Wild Bactrian

Bactrian

Llama

Vicuna

Guanaco Alpaca

vegetation. Some, like Megacamelus, grew even taller than the woolly mammoths in their time. (Later, in the Middle East, the Syrian camel may About 3 million have been even larger.) Around 25 million years years ago, ago, two tribes of camelids divided: The Camelini camelids of the gradually migrated north and west, and the Lamini Lamini tribe entered South

Camelini

#### **Dromedary (Camelus dromedarius)**

Weight: 400-600 kilograms Shoulder height: 1.6-2 meters



#### **Bactrian (Camelus bactrianus)**

Weight: 600-1,000 kilograms Shoulder height: 1.6–1.8 meters

### **Camelops** 4 MY-10,000Y

camelids began to move westward across the land

that connected Asia and

**The First Camels** 

drifted south.

The earliest-known camelids, the Protylopus and the Poebrotherium, ranged in sizes comparable to

modern hares to goats. They appeared roughly 40

million years ago in the North American savannah. Over the 20 million years that followed, more

longer legs and long necks to better browse high

than a dozen other ancestral members of the family Camelidae grew, developing larger bodies,

North America.

### Megacamelus 10-5 MY

## **Aepycamelus**

America.

# 21-5 MY

### **Procamelus** 22-5 MY

**Poebrotherium** 40-32 MY

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