Geology fact sheet: Deer

Today six species of deer live wild in the UK. If you look hard enough, you can find them all somewhere in Norfolk. However, only Red Deer and Roe Deer are considered 'native' - having made it here without the help of us humans.

Fallow Deer are generally considered an 'introduced' animal, as the Normans brought them here in the 11th century. However, they used to roam the UK before an especially cold period in the last Ice Age wiped them out - so perhaps we should think of them as being 're-introduced'?

If you were on Norfolk's Deep History Coast half a million to a million years ago, you would have seen many more types of deer nibbling on the grass and munching on the leaves nearby. As well as familiar Red, Roe and Fallow Deer, there would have been Giant Deer, Bushantlered Deer, Weighing Scale Elk, Robert's

Fallow Deer, and the unbelievable-looking Broad-fronted Moose.

the colder periods of the Ice Age, Reindeer would have mingled with Woolly Mammoths on the Norfolk tundra!



A size comparison of some of the deer that lived in Norfolk up to a million years ago.

Giant Deer

Formerly known as the 'Irish Elk', the name Giant Deer is now used for this group, as these animals were neither exclusively Irish, or closely related to living species of Elk! From DNA analysis, we now know that they were probably more closely related to Fallow Deer.

Megaloceros giganteus, the largest species of Giant Deer stood over two metres (seven foot) at the shoulder and had the largest antlers of any deer. Amazingly, just like deer today, the males grew their huge antlers new once every year in just four months.

Three species of extinct deer from Norfolk are known as Giant Deer: Megaloceros savini, Praemegaceros dawkinsi and Praemegaceros verticornis. M.savini from the Cromer Forest-bed Formation stood around 1.8 metres at the shoulder with large antlers that do not form a palm-like or 'palmate' shape (except for on the first/brow tine). Fossils from this species are commonly found throughout the Deep History Coast of North Norfolk.

Praemegaceros dawkinsi

P. dawkinsi was slightly smaller than M. savini, but had thick backwards-pointing palmate antlers. It has been previously found around the Mundesley/Walcott area of the coast.

Whereas, P. verticornis (again around 1.8 metres at the shoulder) had large heavy antlers which spread almost horizontally out on either side of the skull. It is most often found in South Norfolk and North Suffolk.

Megaloceros

Praemegaceros verticornis

savini



Norwich Castle Museum. The species was given the name Dama roberti, or 'Robert's Fallow

Deer' in honour of the original discoverers of the fossil remains. Unlike the closely related modern Fallow Deer (*Dama dama*), which have palmate, many-pointed antlers, Robert's Fallow Deer antlers are long, relatively straight and unforked. It is this unique antler shape that helped to determine Robert's Fallow Deer as a separate, new species. This deer fossil is just part of a collection of rocks and fossils that is held by Norfolk Museums Service, which has been deemed by Arts Council England as being 'of international importance'.

Dama dama, modern Fallow Deer (left) and Dama roberti, 'Robert's Fallow Deer' (right).





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