

|       |                 |  |                                 |
|-------|-----------------|--|---------------------------------|
| Order | Scientific name |  | Kessingland                     |
|       |                 |  | Pakefield (unspecified horizon) |
|       |                 |  | Pakefield (Cromerian MIS 17)    |
|       |                 |  | Corton                          |
|       |                 |  | Sea Palling                     |
|       |                 |  | Eccles                          |
|       |                 |  | Happisburgh Undifferentiated    |
|       |                 |  | Happisburgh site 3              |
|       |                 |  | Happisburgh site 1              |
|       |                 |  | Ostend                          |
|       |                 |  | Ostend (Arctic Fresh-water Bed) |
|       |                 |  | Walcott                         |
|       |                 |  | Batton                          |
|       |                 |  | Mundesley                       |
|       |                 |  | Trimingham                      |
|       |                 |  | Sidestrand                      |
|       |                 |  | Overstrand                      |
|       |                 |  | Cromer                          |
|       |                 |  | East Runton                     |
|       |                 |  | West Runton                     |
|       |                 |  | Beeston Regis                   |
|       |                 |  | Weybourne                       |

|       |                 |  |                                 |
|-------|-----------------|--|---------------------------------|
| Order | Scientific name |  | Kessingland                     |
|       |                 |  | Pakefield (unspecified horizon) |
|       |                 |  | Pakefield (Cromerian MIS 17)    |
|       |                 |  | Corton                          |
|       |                 |  | Sea Palling                     |
|       |                 |  | Eccles                          |
|       |                 |  | Happisburgh Undifferentiated    |
|       |                 |  | Happisburgh site 3              |
|       |                 |  | Happisburgh site 1              |
|       |                 |  | Ostend                          |
|       |                 |  | Ostend (Arctic Fresh-water Bed) |
|       |                 |  | Walcott                         |
|       |                 |  | Batton                          |
|       |                 |  | Mundesley                       |
|       |                 |  | Trimingham                      |
|       |                 |  | Sidestrand                      |
|       |                 |  | Overstrand                      |
|       |                 |  | Cromer                          |
|       |                 |  | East Runton                     |
|       |                 |  | West Runton                     |
|       |                 |  | Beeston Regis                   |
|       |                 |  | Weybourne                       |

|           |  |                    |   |   |   |   |   |   |   |     |
|-----------|--|--------------------|---|---|---|---|---|---|---|-----|
|           | <i>Clethrionomys glareolus</i>         | bank vole          |   |   |   |   | ■ | ■ |   | ■   |
|           | <i>Pliomys episcopalensis*</i>         | a vole             |   |   |   |   |   |   | ■ |     |
|           | <i>Mimomys savini*</i>                 | a water vole       | ■ |   |   |   |   |   | ■ | ■ ■ |
|           | <i>Mimomys aff. pusillus*</i>          | a water vole       |   |   |   | ■ |   |   |   | ■   |
|           | <i>Mimomys hordijkii</i>               | a vole             |   |   | ■ |   |   |   |   |     |
|           | <i>Ungaromys dehmi</i>                 | a vole             |   | ■ |   |   |   |   |   |     |
|           | <i>Arvicola cantianus*</i>             | a water vole       |   |   |   | ■ | ■ |   |   |     |
|           | <i>Microtus arvalis</i>                | common vole        |   |   |   |   | ■ | ■ |   |     |
|           | <i>Microtus cf. arvalis</i>            | common vole        | ■ |   |   |   | ■ |   |   |     |
|           | <i>Microtus 'arvalinus'*</i>           | a vole             | ■ |   |   |   |   |   |   |     |
|           | <i>Microtus (Pitymys) arveloides*</i>  | pine vole          | ■ |   |   |   |   |   |   |     |
|           | <i>Microtus (Pitymys) gregaloides*</i> | narrow-headed vole | ■ |   |   |   |   |   |   |     |
|           | <i>Microtus arvalidens*</i>            | a vole             | ■ |   |   |   |   |   |   |     |
|           | <i>Microtus rutilus*</i>               | a vole             | ■ |   |   |   |   |   |   |     |
|           | <i>Microtus agrestis</i>               | field vole         |   |   |   |   | ■ |   |   | ■   |
|           | <i>Microtus oeconomus</i>              | tundra vole        |   |   |   |   |   | ■ |   |     |
|           | <i>Apodemus sylvaticus</i>             | wood mouse         | ■ |   |   |   |   |   |   | ■   |
|           | <i>Apodemus sp.</i>                    | a wood mouse       |   |   |   |   |   | ■ |   |     |
|           | <i>Lemmus sp.</i>                      | a lemming          |   |   |   |   |   | ■ |   |     |
|           | <i>Dicrostonyx sp.</i>                 | arctic lemming     |   |   |   |   | ■ |   |   |     |
| Carnivora | <i>Odobenidae</i>                      | a walrus           |   |   |   |   |   |   |   | ■   |
|           | <i>Canis mosbachensis*</i>             | a small wolf       | ■ |   |   |   |   |   |   |     |
|           | <i>Canis (Xenocyon) lycaonoides*</i>   | a wild dog         | ■ |   |   |   |   |   |   |     |
|           | <i>Canis lupus</i>                     | wolf               |   |   |   |   |   |   |   | ■ ■ |
|           | <i>Lutra simplicidens*</i>             | an otter           | ■ |   |   |   |   |   |   |     |
|           | <i>Pannonicictis plioacaenica*</i>     | a small mustelid   | ■ |   |   |   |   |   |   |     |
|           | <i>Martes marten</i>                   | pine marten        | ■ |   |   |   |   |   |   |     |
|           | <i>Mustela nivalis</i>                 | weasel             | ■ |   |   |   |   |   |   |     |
|           | <i>Mustela erminea</i>                 | stoat              | ■ |   |   |   |   |   |   |     |
|           | <i>Gulo luscus</i>                     | glutton            |   |   | ■ |   |   |   |   |     |
|           | <i>Ursus deningeri*</i>                | cave bear          |   |   | ■ |   |   |   |   |     |
|           | <i>Ursus sp.</i>                       | a bear             |   | ■ |   |   |   |   |   | ■   |

|       |                 |                                  |
|-------|-----------------|----------------------------------|
| Order | Scientific name | Covehithe, Easton Bavents        |
|       |                 | Kessingland                      |
|       |                 | Pakefield (unspecified horizon)  |
|       |                 | Pakefield (Cromerian MS 17)      |
|       |                 | Corton                           |
|       |                 | Sea Palling                      |
|       |                 | Eccles                           |
|       |                 | Harrisburgh undifferentiated     |
|       |                 | Harrisburgh site 3               |
|       |                 | Harrisburgh site 1               |
|       |                 | Ostend                           |
|       |                 | Ostdend (Arctic Fresh-water Bed) |
|       |                 | Walcott                          |
|       |                 | Bacton                           |
|       |                 | Mundesley                        |
|       |                 | Trimingham                       |
|       |                 | Silestrand                       |
|       |                 | Overstrand                       |
|       |                 | Cromer                           |
|       |                 | East Runton                      |
|       |                 | West Runton                      |
|       |                 | Breston Regis                    |
|       |                 | Weybourne                        |

|                |   |                          |   |   |   |   |   |   |   |   |   |
|----------------|---|--------------------------|---|---|---|---|---|---|---|---|---|
|                | <i>Crocuta crocuta</i>  | spotted hyaena           | ■ |   |   |   |   |   | ■ |   |   |
|                | <i>Crocuta sp.</i>  | a hyaena                 |   |   |   |   |   |   | ■ |   |   |
|                | <i>Hyaena sp.</i>   | a hyaena                 |   |   |   |   |   |   | ■ |   |   |
|                | <i>Pachycrocuta brevirostris</i> *                            | 'giant' hyaena           |   |   |   |   | ■ |   |   |   |   |
|                | <i>cf. Pachycrocuta brevirostris</i> *                        | 'giant' hyaena           | ■ |   |   |   |   |   |   |   |   |
|                | <i>Felis sp.</i>  | a serval-like cat        | ■ |   |   |   |   |   |   |   |   |
|                | <i>Felis cf. lunensis</i> *                                   | a wild cat               | ■ |   |   |   |   |   |   |   |   |
|                | <i>cf. Lynx sp.</i>   | a lynx                   | ■ |   |   |   |   |   |   |   |   |
|                | <i>Panthera leo</i>   | lion                     | ■ | ■ | ■ | ■ |   |   |   | ■ |   |
|                | <i>Panthera gombaszoegensis</i> *                             | 'European jaguar'        | ■ |   |   |   |   |   |   | ■ |   |
|                | <i>Homotherium latidens</i> *                                 | a sabretooth             | ■ |   |   |   |   |   |   | ■ |   |
| Proboscidea    | <i>Mammuthus meridionalis</i> *                               | southern mammoth         |   | ■ | ■ | ■ | ■ | ■ | ■ |   |   |
|                | <i>Mammuthus trogontherii</i> *                               | steppe mammoth           | ■ | ■ |   |   | ■ | ■ |   |   | ■ |
|                | <i>Palaeoloxodon antiquus</i> *                               | straight-tusked elephant |   | ■ |   |   | ■ |   | ■ | ■ | ■ |
| Perissodactyla | <i>Equus cf. suessenbornensis</i> *                           | large stenonid horse     |   | ■ | ■ | ■ | ■ | ■ | ? |   |   |
|                | <i>Equus cf. altidens</i> *                                   | small stenonid horse     | ■ |   |   |   |   |   |   |   | ■ |
|                | <i>Equus caballus</i>   | a horse                  | ■ |   | ■ |   | ■ | ■ |   |   | ■ |
|                | <i>Equus stenonis</i> *                                       | stenonid horse           |   | ■ | ? | ■ | ■ | ■ |   |   |   |
|                | <i>Equus bressanus</i> *                                      | a very large horse       |   | ■ |   | ■ |   | ■ |   |   |   |
|                | <i>Equus sp.</i>  | a horse                  |   |   |   |   | ■ |   |   | ■ | ■ |
|                | <i>Stephanorhinus sp.</i> *                                   | a rhino                  |   | ■ | ■ |   |   |   | ■ |   |   |
|                | <i>Stephanorhinus hundsheimensis</i> *                        | a rhino                  |   | ■ |   |   |   |   |   | ■ | ■ |
|                | <i>Stephanorhinus sp. A aff. S. etruscus/hundsheimensis</i> * | a rhino                  |   | ■ |   |   |   |   |   |   |   |
|                | <i>Stephanorhinus sp. B aff. S. etruscus/hundsheimensis</i> * | a rhino                  |   | ■ |   |   |   |   |   |   |   |
|                | <i>Rhinocerotidae</i> *                                       | a rhino                  | ■ |   |   |   |   |   |   |   |   |
| Artiodactyla   | <i>Hippopotamus amphibius</i>                                 | hippo                    |   |   | ■ |   |   | ■ |   |   | ■ |
|                | <i>Hippopotamus sp.</i>                                       | a hippo                  | ■ | ■ |   |   |   |   |   |   |   |
|                | <i>Sus scrofa</i>   | wild boar                |   | ■ |   |   |   |   |   |   | ■ |

|       |                 |  |                                 |
|-------|-----------------|--|---------------------------------|
| Order | Scientific name |  | Kessingland                     |
|       |                 |  | Pakefield (unspecified horizon) |
|       |                 |  | Pakefield (Cromerian MIS 17)    |
|       |                 |  | Corton                          |
|       |                 |  | Sea Palling                     |
|       |                 |  | Eccles                          |
|       |                 |  | Happisburgh Undifferentiated    |
|       |                 |  | Happisburgh site 3              |
|       |                 |  | Happisburgh site 1              |
|       |                 |  | Ostend                          |
|       |                 |  | Ostend (Arctic Fresh-water Bed) |
|       |                 |  | Walcott                         |
|       |                 |  | Batton                          |
|       |                 |  | Mundesley                       |
|       |                 |  | Trimingham                      |
|       |                 |  | Sidestrand                      |
|       |                 |  | Overstrand                      |
|       |                 |  | Cromer                          |
|       |                 |  | East Runton                     |
|       |                 |  | West Runton                     |
|       |                 |  | Beeston Regis                   |
|       |                 |  | Weybourne                       |

\* Extinct species

<sup>1</sup> Not from the West Runton Freshwater Bed

## Sources:

Azzaroli, A., Early and Middle Pleistocene equids from Norfolk and northern Suffolk. In Turner C. (Ed) The early Middle Pleistocene in Europe. Belkema 1996  
AHOB Database ([ahobproject.org](http://ahobproject.org))

|       |                 |                                 |
|-------|-----------------|---------------------------------|
| Order | Scientific name | Covehithe, Easton Bavents       |
|       |                 | Kessingland                     |
|       |                 | Pakefield (unspecified horizon) |
|       |                 | Pakefield (Cromerian MS 17)     |
|       |                 | Corton                          |
|       |                 | Sea Palling                     |
|       |                 | Eccles                          |
|       |                 | Harrisburgh undifferentiated    |
|       |                 | Harrisburgh site 3              |
|       |                 | Harrisburgh site 1              |
|       |                 | Ostend                          |
|       |                 | Ostend (Arctic Fresh-water Bed) |
|       |                 | Walcott                         |
|       |                 | Bacton                          |
|       |                 | Mundesley                       |
|       |                 | Trimingham                      |
|       |                 | Silestrand                      |
|       |                 | Overstrand                      |
|       |                 | Cromer                          |
|       |                 | East Runton                     |
|       |                 | West Runton                     |
|       |                 | Breston Regis                   |
|       |                 | Weybourne                       |

Jonathan Stewart Collection (<http://www.northfolk.org.uk/js/index.html>)

Harrison, D., Bates, P. and Clayden, J., On the occurrence of *Galemys kormosi* (Schreuder, 1940) in the British Lower Pleistocene. *Acta Theriologica*, vol 33, 26: 369-378. 1988

Lister, A.M., The stratigraphical interpretation of large mammal remains from the Cromer Forest-bed Formation. In Turner, C. (Ed), *The early Middle Pleistocene in Europe*.

Balkema, 1996.

McWilliams, B., *The Vertebrate Fossils of the Cromer Forest-bed*. Norwich Castle Museum and Art Gallery. Reprinted 1975

Stuart, A.J., *Vertebrate faunas from the early Middle Pleistocene*. In Turner, C. (Ed), *The early Middle Pleistocene in Europe*. Belkema, 1996