**Diverse vertebrate assemblage of the Kilmaluag Formation (Bathonian) of Skye, Scotland**

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**Supplementary Information**

PBDB = Palaeobiology Database <https://paleobiodb.org/>

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|  |  |  |  |
| --- | --- | --- | --- |
| Chondrichthyes | Hybodontiformes |  | *\*Asteracanthus*  *\*Hybodus*  *Lissodus wardi*  *\*Lissodus* sp.  *Parvodus pattersoni* |
|  | Batoidea |  | *\**Batoidea indet. |
|  | Carcharhiniformes |  | Carcharhiniformes indet |
|  | Galeomorphi |  | *Galea* indet. |
|  | Heterodontidae |  | *Proheterodontus sylvestris* (Underwood and Ward 2004) |
|  | Protospinacidae |  | *Breviacanthus brevis* |
|  | Pseudonotidanidae |  | *Pseudonotidanus semirugosus* (Underwood and Ward 2004) |
|  | Rhinobatidae |  | *Spathobatis delsatei* (Underwood and Ward 2004)  ? *Paracestracion* sp. |
|  | Scyliorhinidae |  | *Palaeoscyllium tenuidens* (Underwood and Ward 2004)  Scyliorhinidae indet. |
|  | Proscylliidae |  | *Eypea leesi* (Underwood and Ward 2004) |
|  |  | Incertae sedis | Neoselachii indet |
| Osteichthyes | Lepisosteiformes |  | *\*Lepidotus tuberculatus* |
|  | Pycnodontoidea |  | *Mesodon bucklandi*  *\**Pycnodontoidea indet. |
|  | ?Amioidea |  | *\**Amioidea indet. |
| Lissamphibia | Anura | Discoglossidae | *\*Eodisciglossus oxoniensis*  Discoglossidae indet. |
|  |  | Albanerpetonidae | *\*Albanerpeton* sp.  *\*Anoualerpeton priscus*  Albanerpetontidae indet. |
|  | Caudata | Incertae sedis | *\*Marmorerpeton kermacki*  *\**Kirtlington ‘Salamander A’  *\**Kirtlington ‘Salamander B’ |
| Sauropsida | Testudinata |  | Chelonia indet. (Evans and Milner 1994)  *\**Cryptodira indet. (Evans and Milner 1994)  ?Pleurosternidae indet. (Evans and Milner 1994) |
|  |  |  | Cryptodira: cf. Pleurosternidae |
|  | Lepidosauromorpha | Lepidosauromorpha indet | *\*Marmoretta oxoniensis* (Evans, 1991)  Lepidosauromorpha indet. |
|  |  | Squamata indet | *Balnealacerta silvestris* (Evans 1998)  *Bellairsia gracillis* (Evans 1998)  *‘Eophis underwoodi’* (Caldwell et al. 2015)  *Oxiella tenuis* (Evans 1998)  *Parviraptor* sp. (Evans 1994)  *\*Saurillodon marmorensis \*Squamata indet.* (Evans 1998)  ?Paramacellodidae indet. |
|  |  | Rhynchocephalia | Sphenodontia indet. (Evans 1992) |
|  | Choristodera |  | *\*Cteniogenys* sp. |
|  | Archosauromorpha | Crocodylomorpha | *\**Cf. *Nannosuchus* (?juvenile *Goniopholis*)  *Theriosuchus* sp. (Tennant et al 2016)  *\**Atoposauridae indet.  Crocodylomorpha indet. |
|  |  | Teleosauridae | *Steneosaurus heberti* (Phizackerley, 1951)  *Steneosaurus megistorhynchus* (Phizackerley, 1951)  Teleosauridae indet. |
|  |  | Pterosauria | *\**Pterosauria indet. |
|  |  | Dinosauria - Ornithiscia | *\** Ornithischia indet |
|  |  | Dinosauria - Sauropoda | Sauropoda indet. |
|  |  | Dinosauria - Theropoda | Theropoda indet.  Coelurosauria indet. |
| Synapsida | Mammaliamorpha | Tritylodontidae | *\*Stereognathus* ooliticus (Panciroli et al. 2017)  *\**Tritylodontidae indet. |
|  | Mammaliaformes | Morganucodonta | *\*Wareolestes rex*  *Morganucodon tardus* (Butler and Sigogneau-Russel 2016)  *Stylidens hookeri* (Butler and Sigogneau-Russel 2016)  Morganucodontidae indet |
|  |  | Docodonta | *\*Borealestes serendipitus*  *\*Borealestes* sp. nov.  *\*’Borealestes’ mussettae*  *\*Simpsonodon oxfordensis* (incl. *‘Cyrtlatherium’* believed to be milk molar of *Simpsonodon*)  *\*Krusatodon kirtlingtonensis* (Sigogneau-Russell 2003) |
|  |  | Haramiyida | *\*Eleutherodon oxfordensis* (Butler and Hooker 2005)  *Haramiyida* sp. (Butler and Hooker 2005)  *\*Millsodon oxfordensis* (Kermack et al 1998)  *Millsodon superstes* (Butler and Hooker 2005)  *\*Kirtlingtonia catenata* (Butler and Hooker 2005) |
|  | Mammalia | Multituberculata | *\*Kermackodon multicuspis* (Butler and Hooker 2005)  *\*Hahnotherium antiquum* (Butler and Hooker 2005)  Multituberculata indet. |
|  |  | Shuotheriidae | *Shuotherium* sp. (Sigogneau-Russell 1998) |
|  |  | Eutriconodonta | *\*Phascolotherium simpsoni* (Butler and Sigogneau-Russel 2016) |
|  |  | Cladotheria | *\*Palaeoxonodon ooliticus* (=*Palaeoxonodon freemani*; *Kennetheridium leesi*, Close et al 2016)  Amphitheria indet. (Freeman 1979) |
|  |  | Incertae sedis | *Kirtlingtonia catenata* (Butler and Hooker 2005)  Eupantotheria indet.  Allotheria indet.  *\**Triconodonta indet. |
|  |  |  |  |
|  |  |  |  |

**Supplementary table 2:** *The Guelb el Ahmer Fauna, Morocco. Data   
from Haddoumi et al. (2016), unless otherwise referenced.*

|  |  |  |  |
| --- | --- | --- | --- |
| Osteichthyes | Actinista |  | Mawsoniidae indet |
|  | Dipnoi |  | *Arganodus* sp. |
|  | Lepisosteiformes |  | *Lepidotes* sp. Or *Scheenstia* sp.  Cf. Ionoscopiformes indet. |
|  | Osteoglossiformes |  | Osteoglossiformes indet. |
| Pisces indet | . |  | Indet |
| Lissamphibia | Albanerpetonidae | Albanerpetonidae | Albanerpetonidae indet. |
|  | Caudata |  | Caudata indet. |
|  | Lissamphibia indet. |  | Lissamphibia indet. |
| Sauropsida | Testudinata |  | Testudinata indet. |
|  | Lepidosauromorpha | Squamata indet | Cf. *Parviraptor*  Squamata indet |
|  |  | Incertae sedis | Scincomorpha indet. 1  Scincomorpha indet. 3  ? Scincomorpha indet. 3 |
|  |  | Rhynchocephalia | Rhynchocephalia indet. |
|  | Choristodera |  | Choristodera indet. |
|  | Archosauromorpha | Crocodylomorpha | Atoposauridae, cf. *Theriosuchus* sp.  Teleosauridae indet.  Thalattosuchia, ?Petrorhynchidae indet. |
|  |  | Pterosauria |  |
|  |  | Dinosauria - Theropoda | Theropoda indet. |
|  |  | Dinosauria - Ornithiscia | Thyreophora, cf. Stegosauria indet.  Ornithiscia indet. |
|  |  | Pterosauria | Pterosauria indet. |
| Synapsida | Mammalia | Cladotheria | Amphitheriidae indet.  Dryolestida indet. |
|  |  |  |  |

**Supplementary table 3:** *Vertebrate assemblage of the Itat Formation, Berezovsk coal mine, Russia. From Averianov et al. (2005, 2016) and PBDB unless otherwise referenced.*

|  |  |  |  |
| --- | --- | --- | --- |
| Chondrichthyes | Hybodontiformes |  | *Hybodus* sp. |
| Osteichthyes | Acipenseriformes |  | Acipenseriformes indet. |
|  | Amiiformes |  | Sinamiidae indet. |
|  | Dipnoi |  | *Ferganoceratodus* sp |
| Lissamphibia | Anura |  | *?Eodiscoglossus* sp. |
|  | Caudata |  | *Urupia monstrosa* [cf. = Karauridae indet.]  *Kiyatriton krasnolutskii*  *Egoria malashichevi* (Skutchas *et al*. 2020) |
| Sauropsida | Testudinata |  | *Annemys* sp. [cf. = *Xinjiangchelys* sp.]  Testudine indet. 1  Testudine indet. 2  Testudine indet. 3 |
|  | Lepidosauromorpha |  | Lepidosauromorpha indet |
|  | Squamata | Incertae sedis | Scincomorpha indet. [=cf. Paramacellodidae indet.] |
|  | Choristodera |  | Choristodera indet. [=Steniogenys sp.] |
|  | Archosauromorpha | Crocodylomorpha | Gonipholididae indet. [=*Sunosuchus* sp.] |
|  |  | Pterosauria | Pterosauria indet. |
|  |  | Dinosauria - Theropoda | *Kikelkus aristotocus* [=Allosauridae indet.; =Dromeosauridae indet.] |
|  |  | Dinosauria - Ornithiscia | Ornithopoda indet.  Heterodontosauridae indet.  Stegasauria indet. |
|  |  | Dinosauria - Sauropoda | Mamenchisauridae indet. |
| Synapsida | Mammaliamorpha |  | Tritylodontidae indet. |
|  | Mammaliaformes | Docodonta | *Hutegotherium yaomingi*  *Itatodon tataronovi*  *Simpsonodon sibiricus*  Docdonta indet. |
|  |  | Haramiyida | *Maiopatagium sibiricum,* (Averianov *et al*. 2019)  *Sharypovoia arimasporum* (Averianov *et al*. 2019)  *Sharypovoia magna* (Averianov *et al*. 2019)  *‘Sineleutherus issedonicus’* (Averianov, Lopatin and Krasnolutskii 2011, but see Averianov *et al*. 2019) |
|  | Mammalia | Cladotheria | *Anthracolestes sergeii*  *Amphibetulimus krasnolutskii* |
|  |  | Eutriconodonta | Amphilestidae indet.  Eutriconodonta indet. |
|  |  | Multituberculata | Multituberculate species 1 (Averianov *et al*. 2020)  Multituberculate species 2 (Averianov *et al*. 2020) |

**Supplementary table 4:** *The Yanliao Biota, China. Data from from Xu et al. (2017) and Sullivan et al. (2014), unless otherwise referenced.*

|  |  |  |  |
| --- | --- | --- | --- |
| Osteichthyes | Acipenseriformes |  | *Liaosteus hongi*  Unnamed ptycholepids |
| Lissamphibia |  | Caudata | *Beiyanerpeton jianpingensis*  *Chunerpetron tianyensis*  *Liaoxitriton* *daohugouensis*  *Jeholotriton paradoxus*  *Pangerpeton sinensis*  *‘Yabeinosaurus’ youngi*  Tadpole (possible insect, Huang 2013) |
| Sauropsida | Squamata | Incertae sedis | ‘Lizard 1’  ‘Lizard 2’ |
|  | Archosauromorpha | Pterosauria | *Archaeoistiodactylus linglongtaensis* (possible *Darwinopterus,* Martill and Etches, 2012)  *Changchengopterus pani*  *Darwinopterus modularis*  *D. linglongtaensis*  *D. robustodens*  *Dendrorhynchoides mutoudengensis*  *Fenghuangopterus lii*  *Jeholopterus ningchengensis*  *Jianchangnathus robustus*  *Jianchangopterus zhaoianus*  *Kunpengopterus sinensis*  *Pterorhynchus wellnhoferi Qinglongopterus guoi*  *Wukongopterus lii* |
|  |  | Dinosauria - Theropoda | *Anchiornis huxleyi*  *Aurornis xui*  *Eosinopteryx brevipenna Epidendrosaurus ningchengensis*  *Epidexipteryx hui* (= *Scansoriopteryx heilmanni*)  *Pedopenna daohouensis*  *Xiaotingia shengi* |
|  |  | Dinosauria - Ornithischia | *Tianyulong confuciusi* |
| Synapsida | Mammaliformes | Docodonta | *Agilodocodon scansorius* (Meng et al. 2015)  *Castorocauda lutrasimilus*  *Docofossor brachydactylus* (Luo et al. 2015) |
|  |  | Haramiyida | *Arboroharamiya jenkinsi*  *Maiopatagium* (Meng et al. 2017)  *Megaconus mammaliaformis* |
|  | Mammalia | Australosphenida | *Pseudotribos robustus* |
|  |  | Eutheria | *Juramaia sinensis* |
|  |  | Eutriconodonta | *Liaotherium gracile*  *Manchurodon simplicidens*  *Volaticotherium antiquum* |

**Supplementary table 5:** *Vertebrate assemblage of the Alcobaça Formation, Portugal. Data from Martin and Krebs (2000) and PBDB, unless otherwise referenced.*

|  |  |  |  |
| --- | --- | --- | --- |
| Chondrichthyes | Hybodontiformes |  | *Acrodus* sp.  *Asteracanthus biformatus*  *Hybodus* sp.  *Polyacrodus* sp. nov  Hybodontiformes indet. |
|  | Batomorphii |  | Batomorphii sp.1  Batomorphii sp. 2 |
|  | Incertae sedis |  | Holostei indet |
| Osteichthyes | Ionoscopidae |  | Ionoscopidae incertae sedis |
|  | Macrosemiidae |  | Macrosemiidae incertae sedis |
|  | Amiiformes |  | *Caturus*  Caturidae indet.  Amiidae indet. |
|  | Semionotiformes |  | *Lepidotes* sp. 1  *Lepidotes* sp. 2 |
|  | Pachycormidae |  | Pachycormidae indet. |
|  | Pycnodontidae |  | *Coelodus/Proscinetes* sp.  *Macromesodon* sp. |
| Lissamphibia | Anura | Discoglossidae | Discoglossidae indet.  Anura indet. |
|  | Albanerpetontidae |  | Cf. *Celtedens* |
|  | Caudata |  | *Marmorerpeton* |
| Sauropsida | Testudinata |  | *Craspedochelys jaccardi*  *Peltochelys duchastelii Platychelys* sp.  Pleurosternidae indet.  Platychelidae indet.  Chelonia indet.  Plesiochelydae indet. |
|  | Lepidosauromorpha | Lepidosauromorpha indet. | *Marmoretta* sp. |
|  |  | Anguimorpha | *Dorsetisaurus sp.*  *Dorsetisaurus pollicidens* |
|  |  | Paramacellodidae | *Becklesius hoffstetteri*  *Paramacellodus* sp. indet. |
|  |  | Squamata indet. | *Parviraptor sp.*  *‘Portugalophis lignites’*  *Saurillodon proformis*  *S. henkeli*  *S.* cf. *obtusus*  Scincoidea indet. |
|  |  | Rhynchocephalia | Sphenodontia indet. |
|  | Choristodera |  | *Cteniogenys sp.* |
|  | Archosauromorpha | Crocodylomorpha | *Goniolophis* cf. *simus*  *Goniolophis broderei Goniolophis baryglyphaeus*  *Lisboasaurus estesi*  *Lisboasaurus mitracostatus*  *Machimosaurus hugii*  *Theriosuchus* |
|  |  | Pterosauria | Pterosauria indet.  Pterodactyloidea indet. |
|  |  | Dinosauria - Theropoda | Cf. *Archaeopteryx* sp. *Aviatyrannis jurassica Ceratosaurus* sp.  *Compsognathus* sp.  *Paronychodon* sp.  Cf. *Richardoestesia* sp.  *Stokesosaurus* sp.  Dromaeosaurinae indet.  Tetanurae indet.  ?Troodontidae indet. |
|  |  | Dinosauria - Ornithopoda | *Dacentrurus armatus*  *Dryosaurus* sp.  *Phyllodon henkeli*  *Trimucrodon cuneatus*  Iguanodontia indet.  Stegosauria indet. |
|  |  | Dinosauria - sauropoda | Brachiosauridae indet. Titanosauriformes indet. |
| Synapsida | Mammaliaformes | Docodonta | *Haldanodon expectatus* |
|  | Mammalia | Cladotheria | *Drescheratherium acutum*  *Dryolestes leiriensis*  *Guimarotodus inflatus*  *Henkelotherium guimarotae*  *Krebsotherium lusitanicum*  *Laolestes andresi*  *Nanolestes drescherae* (Martin 2002)  *Nanolestes krusati*  Dryolestidae indet.  Paurodontidae indet. |
|  |  | Eutriconodont | *Priacodon* sp. |
|  |  | Multituberculata | *Bathmochoffatia hapax*  *Bernardodon atlanticus*  *Bernardodon* sp.  *Ecprepaulax animala*  *Guimarotadon leiriensis*  *Henkelodon naias*  *Iberodon quadrituberculatus*  *Kielanodon hopsoni*  *Kuehnodon dietrichi*  *K. guimarotensis*  *K. simpsoni*  *K. dryas*  *K. uniradiculatus*  *Meketichoffatia krausei*  *Meketibolodon robustus*  *Parachoffatia staphylos*  *Paulchoffatia delgadoi*  *Paulchoffatia* sp.  *Pinheirodon vastus*  *Pinheirodon pygmaeus*  *Pinheirodon* sp.  *Pleasiochoffatia thoas*  *P. staphylos*  *P. peparenthos*  *Pseudobolodon oreas*  *P. krebsi*  *P. dryas*  *Proalbionbaatar plagiocyrtus*  *Renatodon amalthea*  *Xenachoffatia oinopion*  Paulchoffatiidae indet (multiple) |
|  |  | Symmetrodonta | Symmetrodonta indet. |
|  |  | Incertae sedis | Triconodonta indet. |

**Supplementary table 6:** *Vertebrate assemblage of the Morrison Formation, USA. Data from Chure et al. (2006), Rougier et al. (2015), Foster and Heckert (2011) and the PBDB, unless otherwise referenced.*

|  |  |  |  |
| --- | --- | --- | --- |
| Osteichthyes | Dipnoi |  | *Potamoceratodus* sp. |
|  | Paleonisciformes |  | *Morrolepis schaefferi*  ?paleoniscid |
|  | Amiiformes |  | *Ophiopsis* sp.  Amioid indet.  Sinamiidae indet. |
|  | Semionotiformes |  | Semionotid (undescribed) |
|  | Halecostomi |  | *Hulettia hawesi*  *Leptolepis* sp. |
|  | Ceratodontiformes |  | *Ceratodus felchi*  *C. fossanovum*  *C. frazieri C. guentheri*  *C. robustus* |
|  | Pycnodontoidea |  | Gen et nov |
| Lissamphibia | Anura |  | *Comobatrachus aenigmatis*  *Ennaebatrachus hechti*  *Eobatrachus agilis*  *Rhadinosteus parvus*  Unnamed pelobatid |
|  | Caudata |  | *Comonexturoides marshi*  *Iridotriton hechti* |
|  |  | Incertae sedis | Unnamed salamander |
| Sauropsida | Testudinata |  | *Dinochelys whitei*  *Dorsetochelys buzzops*  *Glyptops plicatulus*  *Uluops uluops* |
|  | Lepidosauromorpha | Anguimorpha | *Dorsetisaurus* sp. |
|  |  | Paramacellodidae | *Paramacellodus* sp. |
|  |  | Incertae sedis | *Diablophis/Parviraptor*  *Saurillodon* sp.  *Schilleria utahensis*  ‘Scincomorph’ lizard A  ‘Scincomorph’ lizard B |
|  |  |  | Unnamed lizard |
|  |  | Rhynchocephalia | *Eilenodon robustus*  *Opisthias rarus*  *Theratairus antiquus* |
|  | Choristodera |  | *Cteniogenys antiquus* |
|  | Archosauromorpha | Crocodylomorpha | *Amphicotylus lucasii*  *Eutretauranosuchus delfsi*  *“Fruitachampsa callisoni”*  *Goniopholis felix*  *G. gilmorei*  *G. lucasii*  *G. stovalli*  *Hallopus vistor*  *Macelognathus vagans*  *Oplosuchus kayi*  Unnamed mesoeucrocodilian  Goniolophidae indet. |
|  |  | Pterosauria | *Dermodactylus montanus*  *Kepodactylus imperatus*  *Laopteryx priscus*  *Mesadactylus ornithosphyos* |
|  |  | Dinosauria - Theropoda | *Allosaurus fragilis*  *A. jimmadensi*  *?Aviatyrannis jurassica*  *Ceratosaurus nasicornis*  *C. magnicornis*  *C. dentisulcatus*  *Coelurus fragilis*  *Cf. Elaphrosaurus*  *Koparion douglassi*  *Marshosaurus bicentissimus*  *Ornitholestes hermanni*  *Saurophaganax maximus*  *Stokesosaurus clevelandi*  *Tanycolagreus topwilsoni*  *Torvosaurus tanneri*  Unnamed troodontid |
|  |  | Dinosauria - Ornithopoda | *Camptosaurus dispar*  *Drinker nisti*  *Dryosaurus altus*  *Fruitadens haagarorum*  *Gargoyleosaurus parkpinorum*  *Hesperosaurus mjosi*  *Mymoorapelta maysi*  *Nanosaurus agilis*  *Stegosaurus armatus*  *S. stenops* |
|  |  | Dinosauria - Sauropoda | *Amphicoelias altus*  *A. fragillimus*  *Apatosaurus ajax*  *A. excelsus*  *A. louisae*  *Barosaurus lentus*  *Brachiosaurus altithorax*  *Camarasaurus supremus*  *C. grandis*  *C. lentus*  *C. lewisi*  *Diplodocus longus*  *D. carnegii*  *D. hayi*  *D. lacustris*  *Dystylosaurus edwini*  *Dystrophaeus viaemalae*  *Dyslocosaurus polyonychius*  *Haplocanthosaurus priscus*  *H. delfsi*  *Seismosaurus hallorum*  *Supersaurus vivianae*  *Suuwassea emilieae*  Unnamed cetiosaurid(= “*Morosaurus”*  *agilis*)  Unnamed cetiosaurid (=“*Apatosaurus*”  *minimus*) |
| Synapsida | Mammaliaformes | Docodonta | *Docodon victor*  *D. apoxys* |
|  | Mammalia | Cladotheria | *Amblotherium gracilis*  *A. minimum*  *A.* sp. 1  *A.* sp. 2  *Araeodon intermissus*  *Archaeotrigon brevimaxillus*  *A. distagmus*  *Comotherium richi*  *Dryolestes priscus*  *Euthlastus cordiformis*  *Foxraptor atrox*  *Fruitafossor windscheffeli*  *Laolestes eminens*  *L. goodrichi*  *L. oweni*  *L.* sp.  *Paurodon valens*  *Tathiodon agilis*  Unnamed paurodontid |
|  |  | Eutriconodonta | *Aploconodon comoensis*  *Comodon gidleyi*  *Priacodon ferox*  *P. robustus*  *P. lulli*  *P. grandaevus*  *P. fruitaensis*  *Trioracodon bisulcus*  *Triconolestes curvicuspis*  Unnamed eutriconodontan |
|  |  | Multituberculata | *“Ctenacodon” brentbaatar*  *Ctenacodon laticepts*  *C. scindens*  *C. serratus*  *C.* sp.  *Glirodon grandis*  *Psalodon fortis*  *P. marshi*  *P. potens*  *?P*. sp.  *Zofiabaatar pulcher*  Unnamed multituberculate |
|  |  | Symmetrodonta | *Amphiodon superstes*  *Tinodon bellus* |

**Supplementary table 7:** *Vertebrate assemblage of the Purbeck Group. Includes Lulworth, Durlston and Haddenham formations. Data from PBDB and Salisbury (2002).*

|  |  |  |  |
| --- | --- | --- | --- |
| Chondrichthyes | Hybodontiformes |  | *Egertonodus basanus*  *Hybodus* sp  *Lonchidion crenulatum*  *Lonchidion inflexum*  *Parvodus rugianus*  *Polyacrodus parvidens*  Hybodontoidea indet. |
|  | Batoidea |  | Batoidea indet. |
|  | Rhinobatidae |  | *Belemnobatis variabilis*  Rhinobatoidei indet. |
| Osteichthyes | Lepisosteiformes |  | *Lepidotes minor* |
|  | Ophiopsiidae |  | *Ophiopsis breviceps*  *Ophiopsis dorsalis*  *Ophiopsis penicillata* |
|  | Pleuropholidae |  | *Pleuropholis attenuatus* |
|  | Semionotiodea |  | *Histionotus angularis*  *Macrosemius andrewsi* |
|  | Incertae sedis |  | Osteichthyes indet. |
| Lissamphibia | Anura |  | *Sunnybatrachus purbeckensis* |
|  | Albanerpetontidae | Albanerpetontidae | *Celtedens megacephalus* |
|  | Caudata | Batrachosauroididae | Batrachosauroididae indet. |
|  |  | Incertae sedis | *Apricosiren ensomi* |
| Sauropsida | Testudinata |  | *Chelone obovata*  *Dorsetochelys typocardium*  *Helochelydra anglica*  *Hylaeochelys latiscutata*  *Pleurosternon bullockii*  *Plesiochelys* sp.  *Pleurosternon bullocki*  *Pleurosternon* sp.  *Tretosternon punctatum*  *Tretosternon* sp.  Cryptodira indet.  Testudina indet.  Thalassochelydia indet. |
|  | Lepidosauromorpha | Anguimorpha | *Dorsetisaurus hebetidens*  *Dorsetisaurus purbeckensis* |
|  |  | Lacertoidea | *Purbicella ragei* |
|  |  | Paramacellodidae | *Becklesius* sp.  *Paramacellodus oweni*  *Paramacellodus* sp. |
|  |  | Squamata incertae sedis | *Durotrigia* *triconidens*.  *Parasaurillus pseudobtusus*  *Parviraptor estesi*  *Parasaurillus pseudobtusus*  *Pseudosaurillus becklesi Pseudosaurillus* sp  *Saurillus robustidens*  *Saurillus obtusus*  *Saurillus* sp.  Squamata indet. 1  Squamata indet. 2  Squamata indet. 3 |
|  |  | Rhynchocephalia | *Homoeosaurus* sp.  *Opisthias* sp.  Rhynchocephalia indet. |
|  | Ichthyosauria |  | *Ichthyosaurus* sp.  Ophthalmosauridae indet. |
|  | Sauropterygia |  | Plesiosauria indet.  Cryptoclidia indet. |
|  | Archosauromorpha | Crocodylomorpha | *Goniopholis crassidens*  *Goniopholis kipling*  *Goniopholis simus*  *Goniopholis gracilidens* (=*Nannosuchus*)  *Pholidosaurus purbeckensis*  *Theriosuchus pusilus*  Crocodylia indet. (*Goniopholis* sp. *Bernissartia* sp., *Goniopholis* *tenudens* |
|  |  | Pterosauria | *Gnathosaurus macrurus Plataleorhynchus streptophorodon*  Ctenochasmatidae indet. |
|  |  | Dinosauria - Ornithischia | *Echinodon becklesii*  *Owenodon hoggii*  Ankylosauria indet. |
|  |  | Dinosauria - Sauropoda | *Duriatitan humerocristatus*  Cetiosauridae indet.  Sauropoda indet. |
|  |  | Dinosauria - Theropoda | *Nuthetes destructor*  Theropoda indet. |
| Synapsida | Mammaliaformes | Morganucodonta | *Purbeckodon batei* |
|  |  | Docodonta | *Peraiocynodon inexpectatus* |
|  | Mammalia | Cladotheria | *Amblotherium pusillum*  *Amblotherium soricinum*  *Amblotherium* sp.  *Chunnelodon alopekodes*  *Dorsetodon haysomi*  *Durlestotherium newmani*  *Durlstodon ensomi*  *Magnimus ensomi*  *Peramus tenurostris*  *Peramus dubius*  *Peramus minor*  *Peramus* sp.  *Peraspalax talpoides*  *Peraspalax* sp.  *Phascolestes mustelula*  *Phascolestes* sp.  *Tribactodon bonfeldi*  Paurodontidae indet. |
|  |  | Eutriconodonta | *Trioracodon major*  *Trioracodon ferox*  *Trioracodon mordax*  *Trioracodon* sp.  *Triconodon* sp. |
|  |  | Multituberculata | *Albionbaatar denisae*  *Bolodon osborni*  *Bolodon minor*  *Bolodon crasssidens*  *Bolodon osborni*  *Bolodon elongates*  *Bolodon falconeri*  *Bolodon* sp*.*  *Ctenacodon minor*  *Gerhardodon purbeckensis*  *Sunnyodon notleyi*  *Plagiulax becklesii*  "Plagiaulacidae" *sp.,* |
|  |  | Symmetrodonta | *Kouriogenys minor*  *Spalacotherium* sp*.*  *Spalacotherium evansae*  *Spalacotherium hookeri*  *Tinodon micron* |
|  |  | Incertae sedis | Mammalia indet. |
|  |  |  |  |

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