

S2 Table

Biostratigraphic information for hadrosaurine species used in the biogeographic analysis

Table 1 Published biostratigraphic data of selected hadrosaurine taxa adopted in this paper

Taxon	Stratigraphic range	Location	Landmass	Age
Hadrosaurini				
<i>Hadrosaurus foulkii</i> Leidy, 1858; Prieto-Márquez et al., 2006	Woodbury Formation (precise horizon unknown)	northern New Jersey, USA	North America (Appalachia)	early–middle Campanian 80.5–78.5 Ma* Gallagher, 2005; Ross and Fastovsky, 2006
Brachylophosaurini				
<i>Acristavus gagslarsoni</i> Gates et al., 2011	lower part of Two Medicine Formation; middle part of Wahweap Formation	northern Montana, USA; southern Utah, USA	North America (Laramidia)	early Campanian 80.7–79.7 Ma* Freedman Fowler and Horner, 2015
<i>Maiasaura peeblesorum</i> Horner and Makela, 1979	middle to upper part of Two Medicine Formation	northern Montana, USA	North America (Laramidia)	middle Campanian ~76.7 Ma* Varricchio et al., 2010
<i>Brachylophosaurus canadensis</i> Sternberg, 1953; Cuthbertson and Holmes, 2010	middle to upper part of Judith River Formation; middle part of Oldman Formation	northern and central Montana, USA; southern Alberta, Canada	North America (Laramidia)	middle Campanian 79.0–77.8 Ma* Freedman Fowler and Horner, 2015

<i>Probrachylophosaurus bergei</i> Freedman Fowler and Horner, 2015	middle part of Judith River Formation	northern Montana, USA	North America (Laramidia)	early Campanian 79.8–79.5 Ma* Freedman Fowler and Horner, 2015
<i>Wulagasaurus dongi</i> Godefroit et al., 2008	upper part of Yuliangzi Formation	northern Heilongjiang, China	Asia	middle Maastrichtian (specific age uncertain) Markevich et al., 2009
Kritosaurini				
<i>Kritosaurus navajovius</i> Brown, 1910; Prieto-Márquez, 2014	upper part of Kirtland Formation; lower part of Cerro del Pueblo Formation	northwestern New Mexico, USA; southern Coahuila, Mexico	North America (Laramidia)	late Campanian 73.7–71.5 Ma* Eberth et al., 2004; Sullivan and Lucas, 2006
<i>Gryposaurus latidens</i> Horner, 1992	lower part of Two Medicine Formation	northern Montana, USA	North America (Laramidia)	early Campanian 80.0–78.0 Ma* Horner et al., 2001
<i>Gryposaurus notabilis</i> Lambe, 1914	lower half of Dinosaur Park Formation	southern Alberta, Canada	North America (Laramidia)	middle Campanian 76.5–75.9 Ma* Arbour et al., 2009; Mallon et al., 2012
<i>Gryposaurus monumentensis</i> Gates and Sampson, 2007	middle part of Kaiparowits Formation	southern Utah, USA	North America (Laramidia)	middle–late Campanian 76.1–74.8 Ma* Roberts et al., 2005
<i>Rhinorex condrupus</i> Gates and Scheetz, 2015	lower part of Neslen Formation	eastern Utah, USA	North America (Laramidia)	middle Campanian 75.7–74.9 Ma* Cobban et al., 2006

<i>Secernosaurus koernerii</i> Brett-Surman, 1979	upper part of Bajo Barreal Formation; middle part of Los Alamos Formation	southern Chubut, Argentina; southeastern Rio Negro, Argentina	South America	late Campanian–early Maastrichtian (specific age uncertain) Prieto-Márquez and Salinas, 2010
Edmontosaurini				
<i>Edmontosaurus regalis</i> Lambe, 1917	middle part of Horseshoe Canyon Formation	southern Alberta, Canada	North America (Laramidia)	latest Campanian 72.5–71.0 Ma* Campione and Evans, 2011; Eberth et al., 2013
<i>Edmontosaurus annectens</i> Marsh, 1892; Campione and Evans, 2011	Lance, Hell Creek, and Frenchman formations	southeastern Montana, USA; northeastern Wyoming, USA; southwestern North Dakota, USA; northwestern South Dakota, USA; southwestern Saskatchewan, Canada	North America (Laramidia)	late Maastrichtian 66.9–65.5 Ma* Hicks et al., 2002; Lehman et al., 2006
<i>Kerberosaurus manakini</i> Bolotsky and Godefroit, 2004	lower to upper part of Udurchukan Formation	southern Russian Far East	Asia	early–middle Maastrichtian (specific age uncertain) Markevich and Bugdaeva, 2001; Herman et al., 2009
<i>Shantungosaurus giganteus</i> Hu, 1973	top of Xingezhuang Formation to middle of Hongtuya Formation	southeastern Shandong, China	Asia	middle–late Campanian (specific age uncertain) Yan et al., 2005; Liu et al., 2011

Saurolophini

<i>Lophorhothon atopus</i> Langston, 1960	middle to upper part of Mooreville Chalk Formation (precise horizon unknown)	westcentral Alabama, USA	North America (Appalachia)	early Campanian (specific age uncertain) Langston, 1960; Kiernan, 2002
<i>Prosaurolophus maximus</i> Brown, 1916	upper half of Dinosaur Park Formation upper part of Two Medicine Formation	southern Alberta, Canada northern Montana, USA	North America (Laramidia)	middle–late Campanian 75.7–74.1 Ma* Mallon et al., 2012; McGarrity et al., 2013
<i>Saurolophus osborni</i> Brown, 1912	middle to upper part of Horseshoe Canyon Formation	southern Alberta, Canada	North America (Laramidia)	early–middle Maastrichtian 70.4–68.4 Ma* Eberth et al., 2013
<i>Saurolophus angustirostris</i> Rozhdestvensky, 1952	middle to upper part of Nemegt Formation (V. R. Alifanov pers. comm., 2013)	southern Bayankhongor, Mongolia; southern Govi–Altai, Mongolia; western Ömnögovi, Mongolia	Asia	early–middle Maastrichtian (specific age uncertain) Jerzykiewicz and Russell, 1991; Jerzykiewicz, 2003

*The absolute ages of designated taxa were estimated by the respective dating approaches, under the geologic time scale (GTS) established in 2009.

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