

Table S5. Citations for fossil age ranges

Reference Number	Citations
1	Alberdi, M. T. and Sanchez-Chillon, B., 1998, The Cullar Baza 1 site. In Agusti, J., Orms, O. and Martin-Suarez, E., 1998, The Plio-Pleistocene vertebrate succession of the Guadix-Baza Basin (SE Spain). <i>European Quaternary Mammal Research Association (INQUA-SEQS)</i> 33-35
2	Batten, D.J., 1973, Palynology of early Cretaceous soil beds and associated strata, <i>Paleontology</i> , 16 (2), p 399-424
3	Bovet, P. M., Ritts, B. D., Gehrels, G., Abbink, A. O., Darby, B., & Hourigan, J., 2009, Evidence of Miocene crustal shortening in the north Qilian Shan from Cenozoic stratigraphy of the western Hexi Corridor, Gansu Province, <i>American Journal of Science</i> , 309 (4), 290-329.
4	Buffetaut, E., Marandat, B., and Sigé, B., 1986, Découverte de dents de deinonychosaures (Saurischia, Theropoda) dans le Crétacé supérieur du Sud de la France [Discovery of deinonychosaurs teeth (Saurischia, Theropoda) in the Upper Cretaceous of southern France]. <i>Comptes Rendus de l'Académie des Sciences à Paris, Série II</i> 303 :1393-1396
5	Chen, L., and Y. Xie, 2011, Discussion of the Paleocene-Eocene boundary of SanShui Basin, <i>Advanced Materials Research</i> , 236-238 , p 2487-2490
6	Currie, P.J. and D.A. Eberth, 1994, Palaeontology, sedimentology and palaeoecology of the Iren Dabasu Formation (Upper Cretaceous), Inner Mongolia, People's Republic of China, <i>Cretaceous Research</i> , 14 , p 127-144
7	Deng, T., Wang, S., Xie, G., Li, Q., Hou, S., & Sun, B., 2012, A mammalian fossil from the Dingqing Formation in the Lunpola Basin, northern Tibet, and its relevance to age and paleo-altimetry, <i>Chinese Science Bulletin</i> , 57 (2), 261-269
8	Ding, Q.h. and L.j. Zhang, 2005, The lower Triassic series and its palynological assemblages in southwestern Songliao Basin, NE China, <i>Acta Micropalaeontologica Sinica</i> , (1), p 107-114
9	Fang, A., Liu, X., Wang, W., Yu L., Li, X., Huang, F., Preliminary study on the spore-pollen assemblages found in the Cenozoic sedimentary rocks in Grove Mountains, East Antarctica, <i>Quaternary Research</i> , 2004, 24 (6): 645-653
10	Forbes, E., 1856, On the Tertiary fluvio-marine formation of the Isle of Wight, <i>Memoirs of the Geological Survey of Great Britain, and of the Museum of Practical Geology</i> , p. 1-162
11	Gengwu, L., & Rongyu, Y. (1999). Pollen assemblages of the late Eocene Nadu Formation from the Bose basin of Guangxi, southern China. <i>Palynology</i> , 23 (1), 97-114.
12	Grigorescu, D., Venczel, M., Csiki, Z., and Limberea, R., 1999, New latest Cretaceous microvertebrate fossil assemblages from the Hateg Basin (Romania). <i>Geologie en Mijnbouw</i> 78 :301-314
13	Gründel, J., Pelissie, T., and Guerin, M., 2000, Brackwasser-Gastropoden des mittleren Doggers von La Balme (Causses du Quercy, Südfrankreich). <i>Berliner geowissenschaftliche Abhandlungen</i> , Reihe E 34 :185-203
14	Guernet, C., 1994, Ostracods from Nkondo Formation, upper Miocene, lake Albert Basin, Uganda, <i>Int.Cent.Train.Exch.in the Geosci.</i> , 29, p. 59-63
15	Harris, J.M, 1983, Koobi Fora Research Project The Fossil Ungulates: Proboscidea, Perissodactyla, Suidae. <i>Clarendon Press, Oxford, United Kingdom</i> 2
16	Holmes, J. A. (1997). Recent non-marine Ostracoda from Jamaica, West Indies, <i>Journal of Micropalaeontology</i> , 16 (2), 137-143.
17	Hoorn, C., Straathof, J., Abels, H. A., Xu, Y., Utescher, T., & Dupont-Nivet, G. (2012). A late Eocene palynological record of climate change and Tibetan Plateau uplift (Xining Basin, China). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 344-345 , 16-38
18	Hou, Y., T. Chen, H. Yang, J. Ho, 1982, Cretaceous-Quaternary ostracode fauna from Jiangsu, Beijing, <i>Geological Publishing House</i> , p 386 (in Chinese with English abstract)
19	Huang, B., Guo, S., Wu, R., & Guo, S., 1992, Late Cenozoic Stratigraphy and Sedimentary Environments of Central Shanxi Province.
20	Huang, R.J., 1985, Cretaceous and early Tertiary charophytes from Sichuan, <i>Acta Micropalaeontologica Sinica</i> , (2), p 77-89
21	Jaillard, E., Grambast-Fessard, N., Feist, M., & Carlotto, V., 1994, Senonian-Paleocene charophyte succession of the Peruvian Andes, <i>Cretaceous Research</i> , 15 (4), 445-456.
22	Kadolsky, D., 1975, Zur Palaeontologie und Biostratigraphie des Tertiärs im Neuwieder Becken; I. Taxonomie und stratigraphische Bedeutung von Mollusken. <i>Decheniana</i> 128 :113-137
23	Li, J. G., Guo, Z. Y., Batten, D. J., Cai, H. W., & Zhang, Y. Y. (2010). Palynological stratigraphy of the Late Cretaceous and Cenozoic collision-related conglomerates at Qiabulin, Xigaze, Xizang (Tibet) and its bearing on palaeoenvironmental development. <i>Journal of Asian Earth Sciences</i> , 38 (3), 86-95.
24	Owen, R., 1861, Monograph on the fossil Reptilia of the Wealden and Purbeck formations. Part V. Lacertilia (Nutheutes, etc.), <i>The Palaeontological Society, London</i> , 1858, p. 31-39
25	Palynodata Inc. and J.M. White, 2008. Palynodata Datafile: 2006 version, with Introduction by J. M. White. <i>Geological Survey of Canada Open File</i> 5793, 1 CD-ROM.
26	Pu, Q. and F. Qian ,1977,Identification of the Yuanmou fossil-man strata; study of the Yuanmou Formation, <i>Acta Geologica Sinica</i> , (1), p 89-100
27	Rao, C.N. and S.C. Shah, 1963, On the occurrence of pterosaur from the Kota-Maleri beds of Chanda District, Maharashtra, <i>Records of the Geological Survey of India</i> , 92, 315-318
28	Schultz, G.E., 1969, Geology and paleontology of a late Pleistocene basin in southwest Kansas, <i>Geological Society of America Special Paper</i> 105 :1-85
29	Shen, Y.B. and N. J. Mateer, 1992, An outline of the Cretaceous System in northern Xinjiang, western China. In N. J. Mateer, P.-j. Chen (eds.), <i>Aspects of Nonmarine Cretaceous Geology</i> , China Ocean Press, Beijing, 50-77.
30	Smith, A.B.,& Xu, J., 1988, Palaeontology of the 1985 Geotraverse, Lhasa to Golmud. <i>Phil. Trans. R. Soc. Lond. A</i> 327 :53-105
31	Sun, Z., Feng, X., Li, D., Yang, F., Qu, Y., & Wang, H., 1999, Cenozoic Ostracoda and palaeoenvironments of the northeastern Tarim Basin, western China, <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 148 (1), 37-50.
32	Van Itterbeeck, J., P. Missiaen, A. Folie, V.S. Markevich, D. Van Damme, D.y. Guo, T. Smith, 2007, Woodland in a fluvio-lacustrine environment on the dry Mongolian Plateau during the late Paleocene: Evidence from the mammal bearing Subeng section (Inner Mongolia, P.R. China), <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 243 (1-2), p 55-78
33	Wang, W.m., 2006, Correlation of pollen sequences in the Neogene palynofloristic regions of China, <i>Palaeoworld</i> , 15 (1), p 77-99
34	Wang, W.t., Zhang, P.z., Kirby, E., Wang, L.h., Zhang, G.l., Zheng, D.w., Chai, C.Z., 2011, A revised chronology for Tertiary sedimentation in the Sikouzi basin: Implications for the tectonic evolution of the northeastern corner of the Tibetan Plateau, <i>Tectonophysics</i> , 505 (1-4), p 100-114

Table S5. Citations for fossil age ranges continued

Reference Number	Citations
35	Wen G., 2006, Palynological assemblage from the early cretaceous Jiufotang formation of the shen 249 well in the damintun depression of the Liaohe basin, <i>Acta micropalaeontologica Sinica</i> , 23 (2):191-198
36	Winkler, E.M., 1955, A Study of the Variation of Recent and Fossil Ostracodes. <i>Journal of Paleontology</i> , 29 (6), 1059-1065.
37	Wu et al, 2009, Late Oligocene-Early Miocene thrusting in southern east Kunlun Mountains, northern Tibetan Plateau, <i>Journal of Earth Science</i> , 20 (2), 381-390
38	Wu N.q., 1989, Nonmarine gastropod fossils from the Linjiang Formation (Eocene) of Qingjiang Basin, China, <i>Acta Palaeontologica Sinica</i> , 1989-06
39	Xinjiang Stratigraphic Group, 1981, The Stratigraphic Tables of Xinjiang, <i>Geology Press</i> , p 1-460
40	Yang, H., Wang, Z., Li, M., Huang, B., 1979, Stratigraphic Subdivision, Correlation, Paleofaunas, and Floras of South China Mesozoic to Early Tertiary Red Beds, Stratigraphic Subdivision, Correlation, Paleofaunas, and Floras of South China Mesozoic to Early Tertiary Red Beds, <i>Nanjing Institute of Paleontology Science Press</i> , 58-78
41	Yang, R.Q, 1985, The Jurassic-Cretaceous nonmarine ostracod fauna from north Hebei. <i>Professional papers of Stratigraphy and Palaeontology</i> , 12 , 197-236.
42	Yue, Y., Ritts, B. D., Graham, S. A., Wooden, J. L., Gehrels, G. E., & Zhang, Z., 2004, Slowing extrusion tectonics: lowered estimate of post-Early Miocene slip rate for the Altyn Tagh fault. <i>Earth and Planetary Science Letters</i> , 217 (1), 111-122.
43	Yuping, W. B. Z., 1983, New fins of fossils from Paleocene of Qujing, Yunnan, <i>Vertebrata Palasiatica</i> , 2 , 003.
44	Zhang, K., Wang, G., Ji, J., Luo, M., Kou, X., Wang, Y., ... & Liang, Y. (2010). Paleogene-Neogene stratigraphic realm and sedimentary sequence of the Qinghai-Tibet Plateau and their response to uplift of the plateau. <i>SCIENCE CHINA Earth Sciences</i> , 53 (9), 1271-1294.
45	Zhang, W., P. Chen, A.P. Palmer, 2003, Biostratigraphy of China, In Science Press, Beijing, p 423–523 Zhang, Z., Z. Liu, B. Wang, Y. Zhang, D. Ye, 2005, Ostracod Biostratigraphy of the Late Cretaceous Qingshankou Formation in the Songliao Basin, <i>Acta Geologica Sinica</i> , 81 (5), p 727–738