

Table S1. Wudaoliang Fossils

<i>Fossil Type</i>	<i>Fossil</i>	<i>First appearance (Ma)</i>	<i>Last appearance (Ma)</i>	<i>Citations</i>
Ostracod	Candona	196.5	0.021	26; 27
	Candoniella marcida	33.9	16.0	42
	Cyclocypris	0.126	0.012	36; 40
	Cyprinotus	33.9	0.1	1; 22; 28
	Candoniella	99.6	0.012	26; 29
	Eucypris	99.6	2.6	6; 14; 22; 46
	Eucypris mutilis	40.4	23.0	29; 45
	Youshashania	22	8.5	37
Gastropod	Gyraulus	171.6	0	13
	Lymnaea	70.6	0	12
Sporopollen	Alnipollenites	141	0	25
	Betulaepollenites	345	0	25
	Chenopodipollis	111	0	25
	Cupuliferoipollenites	141	0.01	25
	Cyrillaceapollenites	100	0.0	25
	Echitricolpites	65	0	25
	Euphorbiacites	90.3	1.8	25
	Faguspollenites	141	1.8	25
	Fraxinoipollenites	105	22.5	25
	Graminidites	150	0.01	25
	Juglanspollenites	141	0.0	25
	Labitricolpites	65	1.8	25
	Liquidambarpollenites	100	0	25
	Meliaceoidites	65	0	25
	Momipites	183	0	25
	Nitrariadites	58	1.8	25
	Nyssapollenites	345	0	25
	Potamogetonacidites	65	1.8	25
	Quercoidites	345	0	25
	Randiapollis	58	22.5	25
	Rhoipites	141	0	25
	Rutaceopollis	117	0	25
	Salixipollenites	141	1.2	25
	Tiliaepollenites	68.5	1.8	25
	Tricolpites	230.0	0.0	25
	Tricolporopollenites	230	0.01	25
	Triporetetes	230	1.8	25
	Ulmipollenites	141	0	25
	Ulmoideipites	141	0	25
	Abiespollenites	345	0.0	25
Abietinaepollenites	345	0.0	25	
Abietinaepollenites microalatus f. minor	195	0.01	25	
Abietinaepollenites microsibiricus	65	0.01	25	
Cedripites	345	1.8	25	
Classopollis	280	0	25	
Cycadopites	360	0.00	25	
Ephedripites	345	0	25	
Inaperturopollenites	345	0	25	

Table S1. Wudaoliang Fossils continued

<i>Fossil Type</i>	<i>Fossil</i>	<i>First appearance (Ma)</i>	<i>Last appearance (Ma)</i>	<i>Citations</i>
Sporopollen	Laricoidites	280.0	1.80	25
	Piceapollenites	345.0	0.0	25
	Piceapollenites giganteus	141	1.8	25
	Pinuspollenites	325	0	25
	Podocarpidites	280	0	25
	Taxodiaceapollenites	195	1.8	25
	Tsugaepollenites	289	0	25
	Contignisporites	223	43.9	25
	Klukisporites	242.0	0.00	25
	Polypodiaceasporites	195	0	25
	Pterisisporites	230	0.01	25
	Rutaceoipollis	117	0	25
	Sphagnumsporites	230	1.8	25
	Undulatisporites	369	0	25
	Verrutetraspora verrucosa	90.3	11.5	25
	Campenia	195	1.8	25
	Dicellaesporites	100	1.8	25
	Inapertisporites	160	0.01	25
	Leiosphaeridia	570	0.01	25
	Multicellaesporites	100	11.5	25
Ovoidites	199	0.01	25	
Staphlosporites	65	5	25	