

Table S2. Yaxicuo Fossils

<i>Fossil Type</i>	<i>Fossil</i>	<i>First appearance (Ma)</i>	<i>Last appearance (Ma)</i>	<i>Citations</i>
Ostracod	Eucypris	99.6	2.6	6; 14; 22; 46
	Cyprinotus	33.9	0.01	1; 22
	Candoniella albicaus	65	0	30; 32
	Candoniella suzini	65	2.6	30
	Darwinula	164.7	0	7; 31
Charophyte	Amblyochara subeiensis	83.5	2.6	4; 32
	Obtusochara	99.6	33.90	20
	Obtusochara brevicylindrica	55.8	33.9	5
	Tectochara houi	23	2.6	3
Sporopollen	Classopollis	280	0	25
	Ephedripites	345	0	25
	Tricolporopollenites	230	0.01	25
	Meliaceoidites	65	0	25
	Pinaceae	345	0	25
	Lycopodiumsporites	345	0	25
	Lycopodiumsporites neogenicus	65	1.8	25
	Osmundacidites wellmanii	280	0	25
	Osmundacidites nanus	100	1.8	25
	Osmundacidites orbiculatus	230	40.25	25
	Osmundacidites semiprimarius	100	16.5	25
	Osmundacidites nicanicus	230	32.5	25
	Osmundacidites oligocaenicus	37.5	5	25
	Pterisisporites	230.0	1.80	25
	Pterisisporites danyangensis	76	37.5	25
	Pterisisporites hengyangensis	230	37.5	25
	Pterisisporites granulatus	141	5	25
	Pterisisporites dayuensis	76	37.5	25
	Cyathidites minor	280	0	25
	Interulobites exuperans	100	68.5	25
	Deltoidospora	395	0.00	25
	Deltoidospora brevisa	100	40.25	25
	Deltoidospora seidewitzensis	100	16.5	25
	Deltoidospora regularis	230	0.01	25
	Deltoidospora microlepioidites	230	37.5	25
	Polypodiaceasporites	195	0	25
	Polypodiaceasporites haardti	176	0	25
	Polypodiaceasporites gracilis	94	1.8	25
	Toroisporis minor	68.5	22.5	25
	Toroisporis longilaesuratus	230	22.5	25
Hymenophyllumsporites gracilis	100	94	25	
Hymenophyllumsporites pseudoreticulatus	105	11.5	25	
Leptolepidites major	280	11.5	25	
Zlavisporis novamexicanum	100	22.5	25	
Zlavisporis bireticularis	100	22.5	25	

Table S2. Yaxicuo Fossils continued

<i>Fossil Type</i>	<i>Fossil</i>	<i>First appearance (Ma)</i>	<i>Last appearance (Ma)</i>	<i>Citations</i>
Sporopollen	Pinuspollenites	325	0	25
	Pinuspollenites labdacus f. minor	230	0.01	25
	Pinuspollenites microinsignis	100	0.01	25
	Pinuspollenites taedaeformis	111	27.5	25
	Pinuspollenites labdacus f. maximus	230	0.01	25
	Abietineaepollenites	345	0.0	25
	Abietineaepollenites medius	65	3.9	25
	Abietineaepollenites microalatus minor	195	0.01	25
	Abietineaepollenites microalatus f. minor	195	0.01	25
	Abietineaepollenites quadriangulus	54.5	1.8	25
	Abietineaepollenites cf. quadriangulus	54.5	1.8	25
	Abietineaepollenites lenghuensis	65	3.9	25
	Abietineaepollenites baileyana	40.25	3.9	25
	Abietineaepollenites cembraeformis	65	0.01	25
	Abietineaepollenites pacltovae	65	11.5	25
	Cedripites	345	1.8	25
	Cedripites pachydermus	230	3.9	25
	Cedripites microsaccoides	174	1.8	25
	Cedripites reniformis	40.25	3.9	25
	Cedripites trapeziformis	40.25	3.9	25
	Cedripites cornisaccatus	100	1.8	25
	Abiespollenites	345	0.0	25
	Keteleeriaepollenites dubius	100	0.01	25
	Piceapollis	103	5	25
	Piceapollis gigantea	100	22.5	25
	Piceapollis planoides	68.5	3.9	25
	Piceapollis tobolicus	100	3	25
	Tsugaepollenites igniculus minor	134	0	25
	Tsugaepollenites igniculus f. major	134	0	25
	Laricoidites magnus	230	0.01	25
	Laricoidites araucarites	141	22.5	25
	Podocarapites	289	0.01	25
	Taxodiaceaeepollenites vacuipites	100	5	25
	Taxodiaceaeepollenites hiatus	370	0.01	25
	Inaperturopollenites	345	0	25
	Inaperturopollenites dubius	370	0.01	25
	Inaperturopollenites psilosus	230	27.5	25
	Ephedripites	345	0	25
	Ephedripites trinata	123	1.8	25
	Ephedripites obsus	230	22.5	25
Ephedripites fushunensis	100	1.8	25	
Ephedripites baculatus	54.5	1.8	25	

Table S2. Yaxicuo Fossils continued

<i>Fossil Type</i>	<i>Fossil</i>	<i>First appearance (Ma)</i>	<i>Last appearance (Ma)</i>	<i>Citations</i>
Sporopollen	Ephedripites dafengshanensis	100	1.8	25
	Ephedripites strigatus	174	3.9	25
	Ephedripites ganchaigouensis	40.25	11.5	25
	Momipites coryloides	141	0.01	25
	Cupuliferoipollenites fusus	123	3.9	25
	Quercoidites asper	123	1.8	25
	Quercoidites robusteus	68.5	15	25
	Celtispollenites minor	100	0.01	25
	Magnolipollis magnolioides	230	1.8	25
	Magnolipollis micropunctatus	100	7.5	25
	Ilexpollenites margaritus	100	0.01	25
	Tiliaepollenites cf. instructus	27.5	1.8	25
	Lonicerapollis intrabaculus	100	22.5	25
	Lonicerapollis lenghuensis	68.5	11.5	25
	Lonicerapollis granulatus	68.5	11.5	25
	Lonicerapollis interspinosus	68.5	1.8	25
	Lonicerapollis xiangxiangensis	68.5	37.5	25
	Lonicerapollis simplex	68.5	22.5	25
	Lonicerapollis parvina	68.5	37.5	25
	Lonicerapollis tenuipolaris	68.5	22.5	25
	Lonicerapollis echinatus	65	3.9	25
	Araliaceoipollenites euphorii	195	0.01	25
	Populus	65	5	25
	Fraxinoipollenites genuinus	55.8	5	25
	Aceripites reticulatus	100	5	25
	Peltandripites laurusiformis	100	22.5	25
	Nyssapollenites rodderensis	100	5	25
	Nyssapollenites pseudolaesus	100	5	25
	Chenopodipollis cf. multiplex	195	5	25
	Scabiosapollis intrabaculus	100	22.5	25
	Potamogetonacidites natanoides	100	22.5	25
	Potamogetonacidites minor	100	22.5	25
	Nymphaeacidites echinatus	100	3.9	25
	Retitricolpites matauraensis	100	5	25
	Tricolpites	230	0.01	25
	Tricolpites granulatus	90.3	54.5	25
	Tricolpites microreticulatus	88	5	25
	Brevitricolpites	100	5	25
	Tricolporopollenites	141	0.01	25
	Cruciferaeipites minor	100	22.5	25
	Triporopollenites	160	0.01	25