

APPENDIX 3. PHENOTYPIC CHARACTER MATRIX USED FOR PARSIMONY ANALYSIS

Characters are listed in the order in which they are described in the text. Unless otherwise noted in the text, 0 = absent; 1 = present; ? = data are missing; - = character does not apply to a particular species. Both ? and - were treated as missing data in the PAUP (Swofford, 1993) analysis. Polymorphic RAPD characters are denoted by a *P* in the matrix.

	10	20	30	40	50	60	70	80
<i>P. reticulata</i>	?	--000001?	11???	-0---	0?--	?????????????????	0?????????????????	?????????????????
<i>P. butleri</i>	?	--000001?	11???	-2---	0?--	?????????????????	0?????????????????	?????????????????
<i>A. hubberi</i>	0	--000100?	00???	-?---	0?--	?????????????????	0?????????????????	?????????????????
<i>P. compressa</i>	0	--001001?	11???	-?---	0?--	?????????????????	0?????????????????	?????????????????
<i>P. intermedia</i>	0	--001001?	11???	-?---	0?--	?????????????????	0?????????????????	?????????????????
<i>P. olmaceae</i>	0	--001001?	11???	-?---	0?--	?????????????????	0?????????????????	?????????????????
<i>X. alvarezi</i>	2002222110111?	0002110211110	???	1000000000000000	011111100000	10?????????????	?????????????	?????????????
<i>X. andersi</i>	2002042010111?	0000000000?	???	0000000000000000	0001111110100000	?????????????	?????????????	?????????????
<i>X. birchmanni</i>	1--2142011111?	0-?-0-11--	1011000020001?	001110?	1111001110011?	1P10101110P0100101101100110		
<i>X. clemenciae</i>	2012142010111?	000?111111?	10000100000000000000	011111000001010110000001P1P10PP00001111010100				
<i>X. continens</i>	1--2142010111?	0-?-0-10--	1000001000000?	0000000000000000	0001111011110111101011110111?	1011?		
<i>X. cortezi</i>	2112142010111?	0000011111?	101100001000000111001111110010100111001101110011001PPP001101P0					
<i>X. couchianus</i>	0--4043010110?	0-0--00--	10???	00001110001000001111111000000?	?????????????	?????????????	?????????????	?????????
<i>X. evelynae</i>	0--20420101111?	0-0--00--	11???	0201001000000010111111000000?	?????????????	?????????????	?????????????	?????????
<i>X. gordonii</i>	0--3043010110?	0-0--01--	10???	00001210001000000111111000000?	?????????????	?????????????	?????????????	?????????
<i>X. helleri</i>	2002232210111?	002110211110?	???	10010000000000011111001001101110001000110001101001010000				
<i>X. maculatus</i>	0--204201011120-	1--00--	11???	0001000000100021011110000000001011011011000000001010101010				
<i>X. malinche</i>	2112142011111?	0000111111?	10???	000020001?	011110?	?????????????	11P110P01P100010010110110011?	
<i>X. meyeri</i>	0--3043010110?	0-0--00--	0???	0000?12?	0?1000?	0011111000000?	?????????????	?????????
<i>X. milleri</i>	0--204201011120-	0--00--	01???	00001000001000110111111000000?	?????????????	?????????????	?????????????	?????????
<i>X. montezumae</i>	2112142010111?	0000111111?	10000020100000000000011111100111001101111011101111011111110					
<i>X. multilineatus</i>	2111142010111?	110011111000111001100000010000?	0100?	01???	0000001011101110101011111111?			
<i>X. nezahualcoyotl</i>	2112142010111?	0000011111?	10000020100000?	0100?	1?111110011100111101010111111010111010110?	011?		
<i>X. nigraulis</i>	2111142010111?	11001111100011000100000101000011111001100010?	1001011101101110111010111010111010?	10				
<i>X. pygmaeus</i>	1--1142010111?	0-0-00--	0010100100000100000011111001000010000010111011101010101010110					
<i>X. signum</i>	2002232210111?	0?011021?	1?0???	00000000000000000001111110010011?	?????????????	?????????????	?????????????	?????????
<i>X. variatus</i>	0--2042010111?	0--00--	11???	020100100102031111111100000000P1000P1110P0010P0011101010				
<i>X. xiphidium</i>	1002042010111?	0-000000?	1???	02010010010004111111101000000110?	00001100001000001000001101110			