

Appendix

Distribution of 133 morphological characters among exemplar species. Character states are scored 0–9, ? (indeterminate), - (inapplicable).
Page 1 of 2, characters 1–66.

	10	20	30	40	50	60
					
<i>P. australis</i>	10004?712150?213102113211?11?1?2223?????01000000111133?00000000					
<i>P. hippocreperia</i>	30003141216022131021142111111112238121211101000000111133?00000000					
<i>P. ijimai</i>	200031512150?213102113211111111223822?111101000000111133?00000000					
<i>P. muelleri</i>	100001412120132310221530101121213209321213201000000111133?00000000					
<i>P. ovalis</i>	310100312111003311211331111?0104260000??01000000111133?00000000					
<i>P. pallida</i>	100000412150231410311531101111213008120111101000000111133?00000000					
<i>P. psammophila</i>	1000214121402313102115401?11?1?3239120212101000000111133?00000000					
<i>Ph. albomaculata</i>	10100?5121601413102125401?11?1??32?932041??01000000111133?00000000					
<i>Ph. californica</i>	10100?812150?413102115401?????4?????1?01000000111133?00000000					
<i>Ph. harmeri</i>	101001712160041310211540101111214008221411101000000111133?00000000					
<i>Ph. malakhovi</i>	1010??512140?313102115401?11?1??1??7?2??1??01000000111133?00000000					
<i>Discinisca cf. tenuis</i>	0000006?230000000000210100?0220003030000?12312420322202011222211					
<i>Lingula anatina</i>	100000522300000000021010010?220003030000?12712320322122011221421					
<i>Platidia anomioides</i>	0000002122000000000121?21000?020012030000?12411231211122112132323					
<i>Notosaria nigricans</i>	0000005122000000000021021000?020012030000?12411231212122112132324					
<i>Novocrania anomala</i>	0000005023000000000021021010?020002020000?02212110212224011132112					
<i>Terebratulina retusa</i>	0000002122000000000021021000?020012010000?12411231211122112132323					
<i>Acanthochitona crinita</i>	20000000000000000010100?0?0000040300000-100000000012?00130000					
<i>Alcyonidium gelatinosum</i>	010000112100000000000011?010?000311030010?11000000111220010123000					
<i>Lanice conchilega</i>	0000000040000000000010100?0?020014020000001100000000023?00100000					
<i>Metacrinus rotundus</i>	2000000010000001000011101?0?0001140300000-1000000000015?00000000					
<i>PediceIIina cernua</i>	00000000000000000003011100?0?2003140300000-100000000004??00000000					

The significant problems we face cannot be solved by the same level of thinking that created them.

-- *Albert Einstein*