

Appendix 1-1. Geographic distribution data for the C1 sequence.

C1	An	AI	AB	CB	UMV	ND	SM	WTA	S-A	BB
<i>Tetradium</i>	0	0	0	0	0	1	0	0	0	0
<i>Calapoecia</i>	0	0	0	0	0	0	0	1	0	0
<i>Lyopora</i>	0	0	0	0	0	0	0	0	0	1
<i>Protarea</i>	0	0	0	0	0	0	0	0	0	0
<i>Cyrtodonta</i>	0	0	1	0	1	1	0	0	0	0
<i>Cleionychia</i>	0	0	0	0	1	0	0	0	0	0
<i>Modiolopsis</i>	0	0	1	1	1	0	0	0	0	1
<i>Cyrtodontula</i>	0	0	1	1	1	0	0	0	0	0
<i>Ortonella</i>	0	0	0	0	0	0	0	0	0	0
<i>Vanuxemia</i>	0	0	0	0	1	0	0	0	0	0
<i>Cyathophylloides</i>	0	0	0	0	0	0	0	0	0	0
<i>Grewingkia</i>	0	0	0	0	0	0	0	1	0	1
<i>Streptelasma</i>	0	0	0	0	0	0	0	1	0	1
<i>Ecdyceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Probillingsites</i>	0	0	0	0	1	0	0	0	0	0
<i>Anaspyroceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Armenoceras</i>	0	0	0	0	0	0	0	1	0	0
<i>Beloitoceras</i>	0	0	0	0	0	0	0	0	0	1
<i>Bickmorites</i>	0	0	0	0	0	0	0	0	0	0
<i>Charactoceras</i>	0	0	0	0	0	0	0	1	0	1
<i>Clarkesvillia</i>	0	0	0	0	0	0	0	0	0	0
<i>Cyrtocerina</i>	0	0	0	0	1	0	0	0	0	0
<i>Gorbyoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Graciloceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Kindleoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Lambeoceras</i>	0	0	0	0	0	0	0	1	0	0
<i>Manitoulinoceras</i>	0	0	0	0	1	0	0	0	0	0
<i>Miamoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Narthecoceras</i>	0	0	0	0	0	0	0	1	0	0
<i>Neumatoceras</i>	0	0	0	0	0	0	0	1	0	0
<i>Oonoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Rasmussenoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Rizoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Shideleroceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Staufferoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Zitteloceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Ceraurinus</i>	0	0	0	0	0	0	0	0	0	0
<i>Bucania</i>	0	0	1	1	1	1	0	0	0	1
<i>Helicotoma</i>	0	0	0	0	0	0	0	0	0	0
<i>Holopea</i>	0	1	1	0	1	0	0	1	0	1
<i>Tropidodiscus</i>	0	0	1	0	0	0	0	0	0	0
<i>Salpingostoma</i>	0	0	0	0	1	0	0	0	0	1
<i>Rhynchotrema</i>	0	0	0	0	1	1	0	1	0	1
<i>Retrorsirostra</i>	0	0	0	0	0	0	0	0	0	0
<i>Austinella</i>	0	0	0	0	0	0	1	0	0	0
<i>Catazyga</i>	0	0	0	0	0	0	0	1	0	0
<i>Glyptorthis</i>	0	0	0	0	1	1	1	1	0	0
<i>Hiscobeccus</i>	0	0	0	0	1	0	1	1	0	0
<i>Holtedahlina</i>	0	0	0	0	1	0	0	0	0	1
<i>Plaesiomys</i>	0	0	0	0	1	0	1	1	0	1
<i>Tetraphalerella</i>	0	0	0	0	0	0	0	1	0	0
<i>Compsocrinus</i>	0	0	0	0	0	0	0	0	0	0
<i>Cupulocrinus</i>	0	0	0	0	1	0	0	0	0	0
<i>Pararchaeocrinus</i>	0	0	0	0	0	0	0	0	0	0
<i>Rhaphanocrinus</i>	0	0	0	0	1	0	0	0	0	0
<i>Xenocrinus</i>	0	0	0	0	0	0	0	0	0	0
<i>Helcionopsis</i>	0	0	0	0	1	0	0	0	0	0
<i>Leptaena</i>	0	0	1	1	0	0	1	0	0	1
<i>Lepidocyclus</i>	0	0	0	0	0	0	1	1	0	0
<i>Eochonetes</i>	0	0	1	0	0	0	0	1	0	1
<i>Corallidomus</i>	0	0	1	1	1	0	0	0	0	0
<i>Foerstephyllum</i>	0	0	0	0	0	0	0	1	0	0
<i>Saffordophyllum</i>	0	0	0	0	0	0	0	1	0	1

Appendix 1-2. Geographic distribution data for the C2 sequence.

C2	An	Ai	AB	CB	UMV	ND	SM	WTA	S-A	BB
<i>Tetradium</i>	0	0	0	0	0	1	0	0	0	0
<i>Calapoecia</i>	0	0	0	0	0	0	1	1	0	0
<i>Lyopora</i>	0	0	0	0	0	0	0	0	0	0
<i>Protarea</i>	0	0	0	0	0	0	0	0	0	0
<i>Cyrtodonta</i>	0	0	1	0	1	0	0	0	0	0
<i>Cleionychia</i>	0	0	0	0	1	0	0	0	0	0
<i>Modiolopsis</i>	0	0	1	1	1	1	0	0	0	0
<i>Cyrtodontula</i>	0	0	1	0	1	0	0	0	0	0
<i>Ortonella</i>	0	0	0	0	0	0	0	0	0	0
<i>Vanuxemia</i>	0	0	0	0	1	0	0	0	0	0
<i>Cyathophylloides</i>	0	0	0	0	0	0	1	0	0	0
<i>Grewingkia</i>	0	0	0	0	0	1	1	0	0	1
<i>Streptelasma</i>	0	0	0	0	0	0	1	1	0	1
<i>Ecdyceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Probillingsites</i>	0	0	0	0	1	0	0	0	0	0
<i>Anaspyroceras</i>	0	0	0	0	1	0	0	0	0	0
<i>Armenoceras</i>	0	0	0	0	1	0	0	1	0	0
<i>Beloitoceras</i>	0	0	0	1	0	0	0	0	0	0
<i>Bickmorites</i>	0	0	0	0	0	0	0	0	0	0
<i>Charactoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Clarkesvillia</i>	0	0	0	0	0	0	0	0	0	0
<i>Cyrtocerina</i>	0	0	0	0	1	0	0	0	0	0
<i>Gorbyoceras</i>	0	0	0	0	0	0	0	0	0	1
<i>Graciloceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Kindleoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Lambeoceras</i>	0	0	0	0	0	0	0	1	0	0
<i>Manitoulinoceras</i>	0	0	0	0	1	0	0	0	0	0
<i>Miamoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Narthecoceras</i>	0	0	0	0	0	0	0	1	0	0
<i>Neumatoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Oonoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Rasmussenoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Rizoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Shideleroceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Staufferoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Zitteloceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Ceraurinus</i>	0	0	0	0	1	0	0	0	0	0
<i>Bucania</i>	0	0	1	0	1	0	0	0	0	1
<i>Helicotoma</i>	0	0	0	0	0	0	0	0	0	0
<i>Holopea</i>	0	1	1	0	1	0	0	0	0	1
<i>Tropidodiscus</i>	0	0	1	0	0	0	0	0	0	0
<i>Salpingostoma</i>	0	0	0	0	1	0	0	0	0	1
<i>Rhynchotrema</i>	0	0	0	0	1	1	1	1	0	0
<i>Retrorsirostra</i>	0	0	0	0	0	0	1	0	0	0
<i>Austinella</i>	0	0	0	0	0	0	1	0	0	0
<i>Catazyga</i>	0	0	0	1	0	0	0	1	0	0
<i>Glyptorthis</i>	0	0	0	0	1	0	1	1	0	1
<i>Hiscobeccus</i>	0	0	0	0	1	0	1	1	0	0
<i>Holtedahlina</i>	0	0	0	0	1	0	0	0	0	1
<i>Plaesiomys</i>	0	0	0	0	1	0	1	1	0	1
<i>Tetraphalerella</i>	0	0	0	0	0	0	0	1	0	0
<i>Compsocrinus</i>	0	0	0	0	0	0	0	0	0	0
<i>Cupulocrinus</i>	0	0	0	0	1	0	0	0	0	0
<i>Pararchaeocrinus</i>	0	0	0	0	0	0	0	0	0	0
<i>Rhaphanocrinus</i>	0	0	0	0	1	0	0	0	0	0
<i>Xenocrinus</i>	0	0	0	0	0	0	0	0	0	0
<i>Helcionopsis</i>	0	0	0	0	1	0	0	0	0	0
<i>Leptaena</i>	0	0	1	0	0	0	0	0	0	1
<i>Lepidocyclus</i>	0	0	0	0	0	0	1	1	0	0
<i>Eochonetes</i>	0	0	1	0	0	0	0	1	0	1
<i>Corallidomus</i>	0	0	1	1	1	1	0	0	0	0
<i>Foerstephyllum</i>	0	0	0	0	0	0	0	1	0	0
<i>Saffordophyllum</i>	0	0	0	0	0	0	0	1	0	0

Appendix 1-3. Geographic distribution data for the C3 sequence.

C3	An	AI	AB	CB	UMV	ND	SM	WTA	S-A	BB
<i>Tetradium</i>	0	0	0	0	0	1	0	0	0	0
<i>Calapoecia</i>	0	0	0	0	0	0	1	1	0	0
<i>Lyopora</i>	0	0	0	0	0	0	0	0	0	0
<i>Protarea</i>	0	0	0	0	0	0	0	0	0	0
<i>Cyrtodonta</i>	0	0	0	0	1	0	0	0	0	0
<i>Cleionychia</i>	0	0	0	0	1	0	0	0	0	0
<i>Modiolopsis</i>	0	0	0	1	1	1	0	0	0	0
<i>Cyrtodontula</i>	0	0	0	0	1	0	0	0	0	0
<i>Ortonella</i>	0	0	0	0	0	0	0	0	0	0
<i>Vanuxemia</i>	0	0	0	0	1	0	0	0	0	0
<i>Cyathophylloides</i>	0	0	0	0	0	0	1	0	0	1
<i>Grewingkia</i>	0	0	0	0	0	1	1	0	0	1
<i>Streptelasma</i>	0	0	0	0	0	0	1	1	0	1
<i>Ecdyceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Probillingsites</i>	0	0	0	0	1	0	0	0	0	0
<i>Anaspyroceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Armenoceras</i>	0	0	0	0	1	0	0	1	0	0
<i>Beloitoceras</i>	0	0	0	0	0	0	0	0	0	1
<i>Bickmorites</i>	0	0	0	0	0	0	0	0	0	0
<i>Charactoceras</i>	0	0	0	0	1	0	0	0	0	1
<i>Clarkesvillia</i>	0	0	0	0	0	0	0	0	0	0
<i>Cyrtocerina</i>	0	0	0	0	0	0	0	0	0	0
<i>Gorbyoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Graciloceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Kindleoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Lambeoceras</i>	0	0	0	0	1	0	0	1	0	0
<i>Manitoulinoceras</i>	0	0	0	0	1	0	0	0	0	0
<i>Miamoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Narthecoceras</i>	0	0	0	0	0	0	0	1	0	0
<i>Neumatoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Oonoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Rasmussenoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Rizoceras</i>	0	0	0	0	0	0	0	0	0	1
<i>Shideleroceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Staufferoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Zitteloceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Ceraurinus</i>	0	0	0	0	1	0	0	0	0	0
<i>Bucania</i>	0	0	0	0	1	0	0	0	0	1
<i>Helicotoma</i>	0	0	0	0	0	0	0	0	0	0
<i>Holopea</i>	0	0	0	0	1	0	0	0	0	1
<i>Tropidodiscus</i>	0	0	0	0	0	0	0	0	0	0
<i>Salpingostoma</i>	0	0	0	1	1	0	0	0	0	1
<i>Rhynchotrema</i>	0	0	0	0	0	1	1	1	0	0
<i>Retrorsirostra</i>	0	0	0	0	0	0	1	0	0	0
<i>Austinella</i>	0	0	0	0	1	0	1	0	0	0
<i>Catazyga</i>	0	0	0	0	0	0	0	1	0	0
<i>Glyptorthis</i>	0	0	0	0	1	0	1	1	0	1
<i>Hiscobeccus</i>	0	0	0	0	1	0	1	1	0	0
<i>Holtedahlina</i>	0	0	0	0	0	0	0	0	0	1
<i>Plaesiomys</i>	0	0	0	0	1	0	1	1	0	1
<i>Tetraphalerella</i>	0	0	0	0	1	0	0	1	0	0
<i>Compsocrinus</i>	0	0	0	0	0	0	0	0	0	0
<i>Cupulocrinus</i>	0	0	0	0	1	0	0	0	0	0
<i>Pararchaeocrinus</i>	0	0	0	0	0	0	0	0	0	0
<i>Rhaphanocrinus</i>	0	0	0	0	1	0	0	0	0	0
<i>Xenocrinus</i>	0	0	0	0	0	0	0	0	0	0
<i>Helcionopsis</i>	0	0	0	0	0	0	0	0	0	0
<i>Leptaena</i>	0	0	0	0	0	0	0	0	1	1
<i>Lepidocyclus</i>	0	0	0	0	0	0	1	1	0	0
<i>Eochonetes</i>	0	0	0	0	0	0	0	1	0	1
<i>Corallidomus</i>	0	0	0	1	1	0	0	0	0	0
<i>Foerstephyllum</i>	0	0	0	0	0	0	0	1	0	0
<i>Saffordophyllum</i>	0	0	0	0	0	0	0	1	0	0

Appendix 1-4. Geographic distribution data for the C4 sequence.

C4	An	AI	AB	CB	UMV	ND	SM	WTA	S-A	BB
<i>Tetradium</i>	0	0	0	1	0	0	0	0	0	0
<i>Calapoecia</i>	0	1	0	0	0	0	1	1	0	0
<i>Lyopora</i>	0	0	0	0	0	0	0	1	0	0
<i>Protarea</i>	0	0	0	0	0	1	0	0	0	0
<i>Cyrtodonta</i>	0	0	0	1	1	0	0	0	0	0
<i>Cleionychia</i>	0	0	0	0	0	0	0	0	0	0
<i>Modiolopsis</i>	0	0	0	1	1	0	0	0	0	0
<i>Cyrtodontula</i>	0	0	0	0	1	0	0	0	0	0
<i>Ortonella</i>	0	0	0	0	0	0	0	0	0	0
<i>Vanuxemia</i>	0	0	0	0	0	0	0	0	0	0
<i>Cyathophylloides</i>	0	1	0	0	0	0	1	0	0	1
<i>Grewingkia</i>	0	1	0	0	0	1	1	1	0	1
<i>Streptelasma</i>	0	1	0	0	0	1	1	1	0	1
<i>Ecdyceras</i>	0	0	0	1	0	0	0	0	0	0
<i>Probillingsites</i>	0	0	0	1	1	0	0	1	0	0
<i>Anaspyroceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Armenoceras</i>	0	0	0	0	1	0	0	1	0	0
<i>Beloitoceras</i>	0	0	0	0	0	0	0	0	0	1
<i>Bickmorites</i>	0	0	0	0	0	0	0	0	0	0
<i>Charactoceras</i>	0	1	0	0	1	0	0	1	0	1
<i>Clarkesvillia</i>	0	0	0	0	0	0	0	0	0	0
<i>Cyrtocerina</i>	0	0	0	0	0	0	0	0	0	0
<i>Gorbyoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Graciloceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Kindleoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Lambeoceras</i>	0	0	0	0	0	0	0	1	0	0
<i>Manitoulinoceras</i>	0	0	0	0	1	0	0	0	0	0
<i>Miamoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Narthecoceras</i>	0	0	0	0	0	0	0	1	0	0
<i>Neumatoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Oonoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Rasmussenoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Rizoceras</i>	0	0	0	0	0	0	0	0	0	1
<i>Shideleroceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Staufferoceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Zitteloceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Ceraurinus</i>	0	0	0	1	1	0	0	0	0	0
<i>Bucania</i>	0	0	0	1	0	0	0	0	0	1
<i>Helicotoma</i>	0	0	0	0	0	0	0	0	0	0
<i>Holopea</i>	0	0	0	0	1	0	0	0	0	1
<i>Tropidodiscus</i>	0	0	0	0	0	0	0	0	0	0
<i>Salpingostoma</i>	0	0	0	0	1	0	0	0	0	1
<i>Rhynchotrema</i>	0	0	0	1	1	1	1	1	0	0
<i>Retrorsirostra</i>	0	0	0	1	1	1	1	0	0	0
<i>Austinella</i>	0	0	0	0	1	1	1	0	0	0
<i>Catazyga</i>	0	1	0	0	0	0	0	1	0	0
<i>Glyptorthis</i>	0	0	0	0	1	1	1	1	0	1
<i>Hiscobeccus</i>	0	0	0	1	1	1	1	1	0	0
<i>Holtedahlina</i>	0	0	0	0	1	0	0	0	0	1
<i>Plaesiomys</i>	0	0	0	0	1	1	1	1	1	1
<i>Tetraphalerella</i>	0	0	0	0	1	1	0	1	0	0
<i>Compsocrinus</i>	0	0	0	0	0	0	0	0	0	0
<i>Cupulocrinus</i>	0	0	0	1	0	0	0	1	0	0
<i>Pararchaeocrinus</i>	0	0	0	0	0	0	0	0	0	0
<i>Rhaphanocrinus</i>	0	0	0	0	0	0	0	0	0	0
<i>Xenocrinus</i>	0	0	0	0	0	0	0	0	0	0
<i>Helcionopsis</i>	0	0	0	0	0	1	0	0	0	0
<i>Leptaena</i>	0	0	0	1	0	1	0	0	1	1
<i>Lepidocyclus</i>	0	0	0	0	1	1	1	1	0	0
<i>Eochonetes</i>	0	0	0	0	1	1	0	1	1	1
<i>Corallidomus</i>	0	0	0	1	0	0	0	0	0	0
<i>Foerstephyllum</i>	0	0	0	0	0	0	0	1	0	0
<i>Saffordophyllum</i>	0	0	0	0	0	0	0	1	0	0

Appendix 1-5. Geographic distribution data for the C5 sequence.

C5	An	AI	AB	CB	UMV	ND	SM	WTA	S-A	BB
<i>Tetradium</i>	0	0	0	1	1	0	0	0	0	0
<i>Calapoecia</i>	0	1	0	1	0	0	1	1	0	0
<i>Lyopora</i>	0	0	0	1	0	0	0	1	0	0
<i>Protarea</i>	0	0	0	1	0	0	0	0	0	0
<i>Cyrtodonta</i>	0	0	0	1	1	0	0	0	0	0
<i>Cleionychia</i>	0	0	0	1	0	0	0	0	0	0
<i>Modiolopsis</i>	0	0	0	1	1	0	0	0	1	0
<i>Cyrtodontula</i>	0	0	0	1	1	0	0	0	0	0
<i>Ortonella</i>	0	0	0	1	0	0	0	0	0	0
<i>Vanuxemia</i>	0	0	0	1	1	0	0	0	1	0
<i>Cyathophylloides</i>	0	1	0	0	0	0	1	0	0	1
<i>Grewingkia</i>	0	1	0	1	1	1	1	1	0	1
<i>Streptelasma</i>	0	1	0	1	1	0	1	1	0	1
<i>Ecdyceras</i>	0	0	0	0	0	0	0	0	0	0
<i>Probillingsites</i>	0	0	0	1	1	0	0	1	1	0
<i>Anaspyroceras</i>	0	0	0	1	1	0	0	0	0	0
<i>Armenoceras</i>	0	0	0	1	1	0	0	1	0	0
<i>Beloitoceras</i>	0	0	0	1	1	0	0	0	1	1
<i>Bickmorites</i>	0	0	0	1	0	0	0	0	0	0
<i>Charactoceras</i>	0	1	0	1	1	0	0	1	1	1
<i>Clarkesvillia</i>	0	0	0	1	0	0	0	0	0	0
<i>Cyrtocerina</i>	0	0	0	1	0	0	0	0	0	0
<i>Gorbyoceras</i>	0	0	0	1	0	0	0	0	1	0
<i>Graciloceras</i>	0	0	0	1	0	0	0	0	0	0
<i>Kindleoceras</i>	0	0	0	1	0	0	0	0	0	0
<i>Lambeoceras</i>	0	0	0	1	0	0	0	1	0	0
<i>Manitoulinoceras</i>	0	0	0	1	0	0	0	0	0	0
<i>Miamoceras</i>	0	0	0	1	0	0	0	0	0	0
<i>Narthecoceras</i>	0	0	0	1	0	0	0	1	0	0
<i>Neumatoceras</i>	0	0	0	1	0	0	0	0	0	0
<i>Oonoceras</i>	0	0	0	1	0	0	0	0	0	0
<i>Rasmussenoceras</i>	0	0	0	1	0	0	0	0	0	0
<i>Rizoceras</i>	0	0	0	1	0	0	0	0	0	1
<i>Shideleroceras</i>	0	0	0	1	0	0	0	0	0	0
<i>Staufferoceras</i>	0	0	0	1	0	0	0	0	0	0
<i>Zitteloceras</i>	0	0	0	1	0	0	0	0	0	0
<i>Ceraurinus</i>	0	0	0	1	1	0	0	0	0	0
<i>Bucania</i>	0	0	0	1	0	0	0	0	0	1
<i>Helicotoma</i>	0	0	0	1	0	0	0	0	0	0
<i>Holopea</i>	0	0	0	1	1	0	0	0	0	1
<i>Tropidodiscus</i>	0	0	0	1	1	0	0	0	1	0
<i>Salpingostoma</i>	0	1	0	1	1	0	0	0	1	1
<i>Rhynchotrema</i>	0	0	0	1	1	1	1	1	0	0
<i>Retrorsirostra</i>	0	0	0	1	1	1	1	0	0	0
<i>Austinella</i>	0	0	0	1	1	1	1	0	0	0
<i>Catazyga</i>	0	1	0	1	0	0	0	1	1	0
<i>Glyptorthis</i>	0	0	0	1	1	1	1	1	1	1
<i>Hiscobeccus</i>	0	0	0	1	1	1	1	1	0	0
<i>Holtedahlina</i>	0	0	0	1	1	0	0	0	0	1
<i>Plaesiomys</i>	0	0	0	1	1	1	1	1	1	1
<i>Tetraphalerella</i>	0	0	0	1	1	1	0	1	0	0
<i>Compsocrinus</i>	0	0	0	1	0	0	0	0	0	0
<i>Cupulocrinus</i>	0	0	0	1	1	0	0	1	0	0
<i>Pararchaeocrinus</i>	0	0	0	1	0	0	0	0	0	0
<i>Rhaphanocrinus</i>	0	0	0	1	0	0	0	0	0	0
<i>Xenocrinus</i>	0	0	0	1	0	0	0	0	0	0
<i>Helcionopsis</i>	0	0	0	1	0	0	0	0	0	0
<i>Leptaena</i>	0	0	0	1	0	0	0	0	1	1
<i>Lepidocyclus</i>	0	0	0	1	1	1	1	1	0	0
<i>Eochonetes</i>	0	0	0	0	1	1	0	1	1	1
<i>Corallidomus</i>	0	0	0	1	1	0	0	0	1	0
<i>Foerstephyllum</i>	0	0	0	1	1	0	0	1	0	0
<i>Saffordophyllum</i>	0	0	0	0	0	0	0	1	0	0