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Kurzmitteilung

Isopoda of the European North Atlantic from depths exceeding 2000 m, excluding Epicaridea

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ABSTRACT. – This up-to date checklist of North Atlantic Isopoda from depths exceeding 2000 m comprises 216 species of 77 genera and 25 families. The species and authorities are listed. Only the very general distribution is presented, the depth range (if more than one sample) is provided for all species.

KEYWORDS: Isopoda, checklist, North Atlantic, deep sea, >2000 m.

Introduction

A first checklist of isopods from bathyal to abyssal depths in the Atlantic Ocean (in the north and south below 2000 m) was published by MENZIES (1962). Since then, new species were described, and many were synonymised. Therefore an update of this checklist was necessary for the North Atlantic and the Mediterranean, especially for scientists working in the European and Russian Arctic. This checklist only comprises those papers in which new species are described and the gross geographic area where these species were first recorded. The reference list accordingly presents those papers in which new species are described living below 2000 m depth. The inclusion of all references dealing with the listed species would exceed the scope of this paper. The new species described in the papers by GEORGE (2001, 2003, 2004) have to be treated with care. Some of the species described in these papers will have to be synonymized (BRÖKELAND, KAISER, WILSON, pers. comm.), but are included in this list because revisions are not available yet. The genus *Nannoniscella* GEORGE, 2001 is rejected here. It includes the monotypic genus and species *Nannoniscoides biscutatus* SIEBENALLER & HESSLER, 1977, this species and genus could have simply been rediagnosed.

Material and methods

The present list is based on an old compilation published by MENZIES (1962), the world catalogue of isopods from BRIAN KENSLEY and MARYLIN SCHOTTE, a biogeographic publication by SVAVARSSON (1993) on Arctic Isopoda, records of Isopoda from the deep sea off northeastern Greenland (BRANDT 1997), as well as recent data on new records from the Zoological Records.

Checklist of North Atlantic and Mediterranean Isopoda

Taxa	Region	Depth [m]	Taxa	Region	Depth [m]
ANTHURIDEA Leach, 1814			<i>argentiniae</i> Kensley, 1982 <i>chardui</i> Negescu, 1992 <i>hendii</i> Wolff, 1956 <i>micrura</i> Kensley, 1982	Argentine Basin Bays of Biscay Banda Trench Brazil	1002-4392 1894+659 6490-6550 520-2494
Antheluridae Poore & Lew Ton, 1988			<i>Pseudanthura</i> Richardson, 1911 <i>lateralis</i> Richardson, 1911	West Africa	930-3200
<i>Ananthura</i> Barnard, 1925	Davis Strait	3500-4596 [<i>Anthelura</i>]			
<i>abyssorum</i> (Norman & Stebbing, 1886)					
<i>Anthelura</i> Norman & Stebbing, 1886	N. Atlantic	2258-2702			
<i>truncata</i> (Hansen, 1916)					
Anthuridae Leach, 1814					
<i>Cyathura</i> (Cyathura) Norman & Stebbing, 1886	Argentine Basin	508-2707			
<i>profunda</i> Kensley, 1982			<i>Acanthaspidiidae</i> Menzies, 1962		
<i>Malacanthura</i> Barnard, 1925	Guiana Basin	520-2870	<i>Acanthaspidia</i> Stebbing, 1898 <i>decorata</i> (Hansen, 1895)	N. Atlantic	4000 [<i>Iolanthe</i>]
<i>truncata</i> (Hansen, 1916)					
Hyssuridae Wägele, 1981					
<i>Hyszura</i> Norman & Stebbing, 1886	N. Atlantic	2651-2900	Dendrotonidae Vanhöffen, 1914		
<i>producta</i> Norman & Stebbing, 1886	Mediterranean	2018	<i>Dendromuma</i> Menzies, 1962		
<i>profunda</i> Barnard, 1925			<i>compsa</i> Lincoln & Boxshall, 1983	N.E. Atlantic	1271-2925
<i>Kupelloura</i> Barnard, 1925	Mediterranean	2827-2829	<i>Dendrotona</i> Sars, 1872		
<i>flexibilis</i> (Pasternak, 1982)		[<i>Ananthura</i>]	<i>elegans</i> Lincoln & Boxshall, 1983 <i>setosum</i> Lincoln & Boxshall, 1983	N.E. Atlantic N.E. Atlantic	1600-2200 1160-2076
Leptanthuridae Poore, 2001			Desmosomatidae Sars, 1897		
<i>Calathura</i> Norman & Stebbing, 1886	Bay of Fundy	-2500 [<i>Anthura</i>]	<i>Balidocolon</i> Hessler, 1970a <i>atlanticum</i> Hessler, 1970a <i>polare</i> Maljutina & Kussakin, 1996	N. Atlantic Canadian Arctic	4436-4749 3550
<i>brachata</i> (Stimpson, 1853)			<i>Chelator</i> Hessler, 1970a		
<i>Leptanthura</i> Sars, 1899	Gulf of Gascony	516-2185 [<i>Calathura</i>]	<i>insignis</i> (Hansen, 1916)	Davis Strait	1065-2702 [<i>Desmosoma</i>]
<i>affinis</i> (Bonnier, 1896)					

Checklist continued

Taxa	Region	Depth [m]	Taxa	Region	Depth [m]
<i>verecundus</i> Hessler, 1970a	N. Atlantic	1150-2500	<i>Oecidiobranchus</i> Hessler, 1970a	Arctic	794-3920
<i>vulgaris</i> Hessler, 1970a	N. Atlantic	2496-4833	<i>nansenii</i> Just, 1980		
<i>Cryodesma</i> Ssvavarsson, 1988	Norwegian Sea	970-3642	<i>Prochelator</i> Hessler, 1970a	N. Atlantic	3459-4833
<i>agnari</i> Ssvavarsson, 1988	Norwegian Sea	3290	<i>abyssalis</i> Hessler, 1970a	N. Atlantic	4680-4758
<i>cryoabyssoale</i> Malyutina & Kussakin, 1996	W Canadian Arctic		<i>hampsoni</i> Hessler, 1970a	N. Atlantic	5100
<i>Disparella</i> Hessler, 1970a	N. Atlantic		<i>incomitatus</i> Hessler, 1970a	N. Atlantic	50-2021
<i>pachythrix</i> Hessler, 1970a	N. Atlantic	4680	<i>lateralis</i> (Sars, 1899)	Skagerrak	<i>[Eugenda]</i>
<i>valida</i> Hessler, 1970a	N. Atlantic	3459-3806	<i>litus</i> Hessler, 1970a	N. Atlantic	4680-4800
<i>Eugenda</i> Meinert, 1890	Norwegian Sea	2400-2681	<i>sarsi</i> George, 2001	N. Atlantic, C. Hatteras	5474
<i>arctica</i> Ssvavarsson, 1988	N. Atlantic	587-4833	<i>Pseudogerda</i> Kussakin, 1965	Norway	30-2258
<i>fulcimandibulata</i> Hessler, 1970a	N. Atlantic	4800-4825	<i>intermedia</i> (Hult, 1936)		<i>[Desmosoma]</i>
<i>imbricata</i> Hessler, 1970a	N. Atlantic	3742-4800	<i>Thaumastosoma</i> Hessler, 1970a	N. Atlantic	
<i>pannosa</i> Hessler, 1970a	N. Atlantic	2500	<i>platycarpus</i> Hessler, 1970a	N. Atlantic	
<i>setifixa</i> Hessler, 1970a	N. Atlantic	530-2496	<i>tenue</i> Hessler, 1970a	N. Atlantic	2886
<i>telaria</i> Hessler, 1970a	N. Atlantic		<i>Torwolia</i> Hessler, 1970a	N. Atlantic	2886-3753
<i>Eugendella</i> Kussakin, 1965	Skagerrak Strait	24-2702	<i>creper</i> Hessler, 1970a	N. Atlantic	3753-5100
<i>coarctata</i> (G.O. Sars, 1899)			<i>subchelatus</i> Hessler, 1970a	N. Atlantic	2000-5100
<i>cornuta</i> Hessler, 1970a	N. Atlantic	3834	<i>Whola</i> Hessler, 1970a	N. Atlantic	
<i>hessieri</i> Just, 1980	N. Polar Sea	800-3620	<i>angusta</i> (G.O.Sars, 1899)	Skagerrak	50-2500
<i>ischnomoxoides</i> Hessler, 1970a	N. Atlantic	1150-4833			<i>[Desmosoma]</i>
<i>longimana</i> (Vanhoffen, 1914)	N. Atlantic	2735	<i>dumbshageni</i> Svavarsson, 1988	Northern Sea	1279-2024
<i>nudator</i> (Hansen, 1916)	Davis Strait	2626-4833	<i>variabilis</i> Hessler, 1970	N. Atlantic	3753-4892
<i>mimula</i> Hessler, 1970a	N. Atlantic	4800	<i>Eurycopidae</i> Hansen, 1916		
<i>palpata</i> Hessler, 1970a	N. Atlantic	3834	<i>Acanthiocoope</i> Beddard, 1885		
<i>plana</i> Hessler, 1970a	N. Atlantic	3834	<i>armata</i> Chardy, 1972	N. Atlantic	2456
<i>similis</i> (Hansen, 1916)	Davis Strait	530-2194	<i>carinata</i> Chardy, 1972	N. Atlantic	3465
<i>Mamedossa</i> Hessler, 1970a			<i>Amaletta</i> Wilson & Thistle, 1985	N.E. Atlantic	2379-4829
<i>profunda</i> Hessler, 1970a	N. Atlantic	4680-4833	<i>abyssorum</i> (Richardson, 1911a)		<i>[Hydrachna]</i>

Checklist continued

Taxa	Region	Depth [m]	Taxa	Region	Depth [m]
<i>Bathyopsturus Nordenstam, 1955</i>			<i>producia</i> Sars, 1868	Norwegian Sea	72-2681
<i>abyssicola</i> (Beddard, 1885)	W. Azores	3977	<i>pygmaea</i> Sars, 1870	W. Norway	150-280
<i>Bellibos (Bellibos) Haugness & Hessler, 1979</i>			<i>quadrautifrons</i> Birstein, 1969	Romanche Trench (N. Atlantic)	
<i>buzwili</i> Haugness & Hessler, 1979	NE & NW Atlantic	2379-4980	<i>sandersi</i> Wilson, 1983	Off New England	2022-2921
<i>dagei</i> (Chardy, 1975a)	NE & NW Atlantic	2379-4892	<i>septentrionalis</i> Mal'yutina & Kussakin, 1996	W Canadian Arctic	3550
<i>Bellibos (Bennertia) Haugness & Hessler, 1979</i>	NE & NW Atlantic	2864-4270	<i>vassiae</i> Mal'yutina & Kussakin, 1996	W Canadian Arctic	3410
<i>monicae</i> (Chardy, 1975a)			<i>Munneurycope</i> Stephensen, 1912	S. Davis Straits	3521
<i>Beloneces</i> Wilson & Hessler, 1981	Bay of Biscay	460-4268	<i>elongata</i> Wolff, 1962	Arctic Ocean	1260-3709
<i>parvus</i> (Bonnier, 1896)			<i>incisa</i> (Gurjanova, 1946)	[EuryCOPE]	
<i>Betamorpha</i> Hessler & Thistle, 1975			<i>glacialis</i> Mal'yutina & Kussakin, 1996	Greenland, Amundsen Basin	
<i>lasia</i> Thistle & Hessler, 1977	N.W. Atlantic	2802-4426	<i>murrayi</i> (Walker, 1903)	W. Canadian Arctic	2370-2750
<i>Disconectes</i> Wilson & Hessler, 1981			<i>nodifrons</i> (Hansen, 1916)	N. Atlantic	530-7800
<i>coxaalis</i> Kussakin, 1983	Northern Sea	3110-3410	<i>Munnopatus</i> Richardson, 1912	N. Atlantic	2702-7000
<i>furcatus</i> (Sars, 1870)	Lofoten Is.	150-2258	<i>longipes</i> (Tattersall, 1905)	[Munnaposis]	
<i>Euryope</i> Sars, 1864			<i>Storbyngura</i> Vanhoffen, 1914	N. Atlantic	
<i>brevirostris</i> Hansen, 1916	Norwegian Sea	160-3423	<i>magnispinis</i> (Richardson, 1908a)	[EuryCOPE]	
<i>ceniobri</i> Wilson, 1983	Off N. Britain	1495-2815	<i>truncata</i> (Richardson, 1908a)	Off Nantucket Shoals	2258-2702
<i>complanaata</i> Bonnier, 1896	Bay of Biscay	860-5779		Off Martha's Vineyard	2788-3235
<i>cornuta</i> Sars, 1864	Norwegian Sea	46-2207		N.W. Atlantic	[EuryCOPE]
<i>cryoabysalis</i> Just, 1980	N.W. Atlantic	3300-3970	<i>vemae</i> Menzies, 1962	N.W. Atlantic	5166
<i>dahli</i> Svavarsson, 1987	Norwegian Sea	2085-3709	<i>zenkevitchii</i> Birstein, 1969	Romanche Trench (N. Atlantic)	
<i>diadela</i> Wilson, 1983	Off New England	3310-3806	<i>Syneuryope</i> Hansen, 1916		
<i>errabunda</i> Wilson, 1983	N. Atlantic	4632-5280	<i>dagei</i> Chardy, 1975	N. Atlantic, France	2835
<i>grasslei</i> Wilson, 1983	Off New England	2086-2891	<i>hansenii</i> Menzies, 1956	N. Atlantic	5104-5122
<i>hansenii</i> Ohlin, 1901	N.W. Atlantic	460-3709	<i>parallela</i> Hansen, 1916	S.W. Cape Farewell	1280-5122
<i>hessleri</i> Wilson, 1983	N.E. Atlantic	4400			
<i>inermis</i> Hansen, 1916	N.W. Atlantic	200-2380	Haploniscidae Hansen, 1916		
<i>iphima</i> Wilson, 1981	N.E. Atlantic	2379-4975	<i>Antennuloniscus</i> Menzies, 1962	N. Atlantic	3663
<i>laeticornata</i> Pasternak, 1982	Mediterranean	3630-3650	<i>dilatatus</i> Chardy, 1974	N.E. Atlantic	1942-2760
<i>longifligrata</i> Wilson, 1983	Off New England	2178-2469	<i>diversus</i> Lincoln, 1985		

Checklist continued

Checklist continued		Taxa	Region	Depth [m]	Taxa	Region	Depth [m]
<i>lincolni</i> George, 2004	N. Atlantic, Carolina	4100-4180	<i>Illyarachna</i> Sars, 1870	Mediterranean	3630-3650		
<i>menziesi</i> George, 2004	N. Atlantic, Carolina	3010-3080	<i>calva</i> Pasternak, 1982	Arctic Ocean	1666-3270		
<i>Chandraniscus</i> George, 2004	N. Atlantic, Carolina	3045	<i>dubia</i> Hansen, 1916	Arctic Ocean	2500		
<i>eastwardae</i> George, 2004	N. Atlantic, Carolina	2500-2560	<i>derugina</i> Gurjanova, 1946	Arctic	3965		
<i>eastwardae</i> George, 2004	N. Atlantic, Carolina	2595-2610	<i>frani</i> Just, 1980	Lofoten Is.	20-3270		
<i>charbii</i> George, 2004	N. Atlantic, Carolina	4910-4930	<i>hirticeps</i> Sars, 1870	Christiania Fjord	8-5223		
<i>neogescaue</i> George, 2004	N. Atlantic, Carolina	5080-5100	<i>longicornis</i> (Sars, 1864)				
<i>Chaetodioniscus</i> Lincoln, 1985	N. Atlantic, Carolina	2636-2646	<i>Polita</i> Bonnier, 1896	Bay of Biscay	216-4885		
<i>wilsoni</i> George, 2004	N. E. Atlantic	2636-2925	<i>spinovissima</i> Hansen, 1916	Davis Strait	2702-3521		
<i>Haploniscus</i> Richardson, 1908	N. E. Atlantic	1484-2910	<i>una</i> Thistle, 1980	N.W. Atlantic	2178-4892		
<i>aduncus</i> Lincoln, 1985	N.E. Atlantic	698-5024					
<i>amplifatus</i> Lincoln, 1985	N.E. Atlantic						
<i>angustus</i> Lincoln, 1985	W. of Norway						
<i>bicuspidis</i> (Sars, 1877)	N.E. of Azores	3360-3600					
	N. Atlantic	1632-3697					
	N. Atlantic	2273-3025					
	N.E. Atlantic	900-2925					
	N. Atlantic, Carolina	3000					
	Arctic	854-2465					
	N. Atlantic	4223					
	N. Atlantic	4184					
	N. Atlantic	3663					
	N.W. Atlantic	1505-4061					
<i>charcoti</i> Chardy, 1975							
<i>forestii</i> Chardy, 1974							
<i>furcatus</i> Chardy, 1974							
<i>hamatus</i> Lincoln, 1985							
<i>harrietae</i> George, 2004							
<i>ingolfi</i> Wolff, 1962							
<i>monodi</i> Chardy, 1974							
<i>myriamae</i> Chardy, 1974							
<i>obtusifrons</i> Chardy, 1974							
<i>spinifer</i> Hansen, 1916							
<i>Hydroneiscus</i> Hansen, 1916	N. Atlantic	3521					
<i>abyssi</i> Hansen, 1916	N. Atlantic, Carolina	3100-3155					
<i>malyutinae</i> George, 2004	N. Atlantic	3663					
<i>vandelli</i> Chardy, 1974	N. Atlantic, Carolina	3050-5080					
<i>walringi</i> George, 2004	N.W. Atlantic						
<i>Ilyarachnidae</i> Hansen, 1916							
<i>Bentomorpha</i> Hessler & Thistle, 1975							
<i>Lasia</i> Thistle & Hessler, 1977							

Checklist continued

Taxa	Region	Depth [m]	Taxa	Region	Depth [m]
Janirellidae Menzies, 1956			<i>Lipomera (Tetracope) Wilson, 1989</i>	N.W. Atlantic	1501-1693
<i>Janirella Bonnier, 1896</i>			<i>curvistestinata</i> Wilson, 1989		
<i>ocquetii</i> Chardy, 1974	N. Atlantic	3465-4166	<i>Munnopsis M. Sars, 1861</i>	N. Atlantic	364-2702
<i>laevis</i> Hansen, 1916	N. Atlantic	2258-2702	<i>beddardi</i> (Tattersall, 1905)		
<i>taubieri</i> Chardy, 1974	N. Atlantic	3663	<i>Paramunnopsis Hansen, 1916</i>	Northern Sea	3709-3970
<i>Janiridae</i> Sars, 1897			<i>justi</i> Svavarsson, 1988	N. Atlantic	0-2300
<i>Janira Leach, 1814</i>			<i>oceania</i> (Tattersall, 1905)		
<i>maculosa</i> Leach, 1814			<i>[Munnopsis]</i>		
<i>Janiratida Menzies, 1951</i>					
<i>hexadenaria</i> Birstein, 1970	NW Pacific	2770-3250	Nannonicidae Hansen, 1916		
<i>Janthura Wolff, 1962</i>	Kurile-Kamchatka French		<i>Austroniscus norbi</i> Svavarsson, 1982	Arctic	2470-3612
<i>abyssicola</i> Wolff, 1962	Gulf of Guinea	2550	<i>Exiliniscus Siebenaller & Hessler, 1981</i>		
Macrostyliidae Hansen, 1916			<i>chandranovi</i> George, 2001	N. Atlantic, Carolina	3620
<i>Macrostylis Sars, 1864</i>	Davis Strait	698-3921	<i>clipeatus</i> Siebenaller & Hessler, 1981	N.W. Atlantic	3834-5023
<i>abyssicola</i> Hansen, 1916	N.E. Atlantic	3714-4392	<i>hansenii</i> Just, 1970	Greenland	80-3920
<i>angulata</i> Mezhev, 1999	Davis Strait	3521	<i>Hebefistis Siebenaller & Hessler, 1977</i>		
<i>magnifica</i> Wolff, 1962	N.W. Atlantic	5420	<i>cornutus</i> Siebenaller & Hessler, 1977	N.W. Atlantic	3753-3806
<i>strigosa</i> Mezhev, 1999	Norwegian Sea	830-3474	<i>Leutziniscus George, 2001</i>		
<i>subnervosa</i> Hansen, 1916	N.W. Atlantic	3950-3963	<i>jehamoni</i> George, 2001	N. Atlantic, C. Hatteras	5325
<i>truncatex</i> Menzies, 1962	N.E. Atlantic	2665-2667	<i>Nannonicoides Hansen, 1916</i>		
<i>vigorata</i> Mezhev, 1999	N.E. Atlantic	2665-2667	<i>lateidifusus</i> Siebenaller & Hessler, 1977	N.W. Atlantic	587-4833
<i>virtiosa</i> Mezhev, 1999	N.E. Atlantic		<i>Nannonicus Sars, 1869</i>		
Munnidae Sars, 1899			<i>analis Hansen, 1916</i>	Davis Strait	2258
<i>Munna acanthifera</i> Hansen, 1916	Arctic	60-3709	<i>arcobdysalis</i> Just, 1980	Arctic	3965-3970
Munnopsidae Sars, 1869			<i>inermis</i> Hansen, 1916	Davis Strait	2258
<i>Lipomera (Paralipomera) knorrei</i> Wilson, 1989	N.W. Atlantic	3264-3256	<i>oblonga</i> Sars, 1870	Lofoien Is.	219-5843
			<i>profunda</i> Svavarsson, 1982	Norwegian Sea	1001-3016
			<i>spinicornis</i> Hansen, 1916	N. Atlantic	2465
			<i>teres</i> Siebenaller & Hessler, 1981	N.E. Atlantic	4426-4435

Taxa	Region	Depth [m]	Taxa	Region	Depth [m]
<i>Rapaniscus</i> Siebenaller & Hessler, 1981 <i>crassipes</i> (Hansen, 1916)	N. Norway	219-2754 [<i>Nannonicus</i>] 1254-2223	Suborder CYMOTHOIDA Wägele, 1989		
<i>dewdneyi</i> Siebenaller & Hessler, 1981	N.W. Atlantic		<i>Cirolanidae</i> Dana, 1852		
<i>Regobellator</i> Siebenaller & Hessler, 1981 <i>armatus</i> (Hansen, 1916)	Davis Strait	3521	<i>Metacirolana</i> Nierstrasz, 1931 <i>caeca</i> (Dollfus, 1903)	Mediterranean	1210-2500 [<i>Cirolana</i>]
<i>Thaumatosoma</i> Hessler, 1970A <i>playcarpus</i> Hessler, 1970 <i>tenue</i>	N.W. Atlantic N.W. Atlantic	2886 2886-3753	Gnathiidae Harger, 1880 <i>Bathygnathia</i> Dollfus, 1901 <i>caeca</i> Richardson, 1911 <i>depaolorosa</i> George, 2003	N. Atlantic N. Atlantic, Carolina	2638 2060-2165
Pseudomesidae Hansen, 1916			Suborder VALVIFERA Sars, 1882		
<i>Pseudomesus</i> Hansen, 1916 <i>bispinosus</i> Chardy, 1974 <i>brevicornis</i> Hansen, 1916	W. Mediterranean N. Iceland	2827 80-2105	Arcturidae Rate & Westwood, 1868 <i>Astacilla</i> Cordiner, 1793 <i>caeca</i> Benedict, 1898	Martha's Vineyard	2790-3340
Santiidae Kussakin, 1988			Chaetiliidae Dana, 1853 <i>Saduria</i> Adams, 1852 <i>megalura</i> (Sars, 1879)	N. Atlantic	1996-2465
<i>Abyssianira</i> Menzies, 1956 <i>denijfors</i> Menzies, 1956	N. Atlantic	5104-5122	[genus name of first description]		
Stenetridae Hansen, 1905					
<i>Stenetrum</i> Haswell, 1881 <i>accutum</i> Vanthöffen, 1914	Davis Sea	150-3397			
Thambeumatidae Stebbing, 1912					
<i>Thambema</i> Stebbing, 1912 <i>amicorum</i> Stebbing, 1912	W. of Ireland	1993-2912			

R e m a r k s. – The most diverse families of Isopoda of the North Atlantic are the Desmosomatidae, including 14 genera and 49 species, and the Eurycopidae represented by 13 genera and 46 species. Some families have only been reported with a single genus or a single species in this area: Acanthaspidiidae, Santiidae, Stenetriidae, Thambematidae, Cirolanidae, Arcturidae and Chaetiliidae (see list). *Munneurycope murrayi* (WALKER 1903) does not only occur at greatest depth in the North Atlantic, it is also the species with the most eurybathic range (530-7800 m), definitely worth revising the material and check, as this species might have been misidentified in some samples, alternatively, the material might belong to more than one species of *Munneurycope*.

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