

**SUPPLEMENTARY DATA**—Maximum widths of well-preserved mops occurring on Bed MMB4, Nilpena, Ediacara Member, Rawnsley Quartzite, South Australia. Specimens are sequenced from smallest to largest. Coordinates reflect specimen orientation within the bed. Specimen numbers were arbitrarily assigned (according to the order in which specimens were measured).

Specimen number	Location*		Maximum width <sup>†</sup> (cm)
	Lat (°S)	Long (°E)	
MMB4-25	256	357	0.56463
MMB4-73	376	237	1.05798
MMB4-89	308	216	1.24631
MMB4-162	200	412	1.28481
MMB4-47	267	322	1.40798
MMB4-98	359	248	1.42072
MMB4-94	353	270	1.42366
MMB4-105	304	304	1.43552
MMB4-46	265	338	1.44304
MMB4-115	304	363	1.45989
MMB4-22	267	385	1.46741
MMB4-79	331	245	1.48556
MMB4-20	291	361	1.50079
MMB4-129	311	321	1.54229
MMB4-28	244	367	1.55173
MMB4-191	647	367	1.57120
MMB4-178	143	432	1.58811
MMB4-72	373	243	1.68860
MMB4-101	383	288	1.85133
MMB4-34	288	352	1.85620
MMB4-27	243	364	1.89266
MMB4-03B	326	321	1.93206
MMB4-92	347	277	1.93274
MMB4-74	359	220	1.94602
MMB4-153	480	144	1.94678
MMB4-65	225	306	1.95892
MMB4-190	652	364	2.02997
MMB4-156	482	136	2.04813
MMB4-48	266	325	2.07562

MMB4-167	617	212	2.11922
MMB4-38	294	305	2.13437
MMB4-77	331	229	2.15579
MMB4-59	215	330	2.22182
MMB4-103	389	272	2.23088
MMB4-24	258	358	2.24041
MMB4-80	324	250	2.29209
MMB4-193	607	228	2.34079
MMB4-11	265	349	2.41429
MMB4-146	421	200	2.43252
MMB4-55	243	306	2.44175
MMB4-172	550	193	2.44767
MMB4-26	242	377	2.45156
MMB4-18	282	356	2.48225
MMB4-41	279	310	2.49986
MMB4-166	626	213	2.52774
MMB4-42	273	311	2.54228
MMB4-179	91	413	2.57335
MMB4-56	241	306	2.59484
MMB4-164	722	227	2.61321
MMB4-23	283	368	2.64913
MMB4-120	367	312	2.66232
MMB4-154	487	144	2.66340
MMB4-99	369	296	2.67956
MMB4-76	345	234	2.68681
MMB4-184	366	164	2.69202
MMB4-85	302	208	2.70090
MMB4-122	369	338	2.75028
MMB4-116	345	387	2.80410
MMB4-95	349	265	2.80788
MMB4-69	398	256	2.89058
MMB4-40	299	304	2.92346
MMB4-82	312	226	2.96063
MMB4-121	371	332	2.96110
MMB4-68	305	269	2.96412
MMB4-174	265	429	2.98017
MMB4-152	484	152	3.00851

MMB4-06	252	386	3.02356
MMB4-155	484	139	3.03853
MMB4-161	204	408	3.06588
MMB4-51	263	326	3.08913
MMB4-113	388	379	3.09298
MMB4-119	388	307	3.10648
MMB4-32	242	348	3.11412
MMB4-180	86	414	3.14586
MMB4-181	77	403	3.15599
MMB4-183	352	107	3.17316
MMB4-197	526	188	3.29092
MMB4-39	286	303	3.30858
MMB4-124	341	355	3.33962
MMB4-07	258	348	3.39386
MMB4-16	277	379	3.44096
MMB4-138	418	308	3.48694
MMB4-70	383	249	3.50582
MMB4-44	260	317	3.52147
MMB4-60	224	325	3.54508
MMB4-02	249	352	3.56159
MMB4-108	319	315	3.57963
MMB4-107	588	204	3.63323
MMB4-195	516	195	3.63552
MMB4-185	353	168	3.69026
MMB4-30	216	348	3.72897
MMB4-19	285	319	3.74647
MMB4-66	220	318	3.74705
MMB4-150	477	131	3.77750
MMB4-63	218	306	3.81967
MMB4-35	287	330	3.86312
MMB4-151	499	142	3.86430
MMB4-86	314	208	3.91057
MMB4-58	230	315	3.93267
MMB4-130	308	308	3.97479
MMB4-37	290	315	4.01218
MMB4-132	548	248	4.02182
MMB4-96	346	258	4.02876

MMB4-137	417	313	4.05256
MMB4-117	372	366	4.05897
MMB4-110	347	318	4.07027
MMB4-64	237	307	4.11482
MMB4-118	394	308	4.14193
MMB4-12	266	391	4.14399
MMB4-97	348	253	4.14494
MMB4-145	435	218	4.14717
MMB4-133	548	240	4.14858
MMB4-31	248	351	4.14871
MMB4-140	445	262	4.16341
MMB4-170	642	322	4.16460
MMB4-143	445	237	4.16812
MMB4-177	143	432	4.22694
MMB4-182	64	404	4.23271
MMB4-90	311	266	4.25339
MMB4-87	303	202	4.25628
MMB4-127	304	336	4.25744
MMB4-81	319	239	4.27757
MMB4-33	252	344	4.28021
MMB4-93	340	264	4.29687
MMB4-173	328	413	4.31321
MMB4-84	302	215	4.32426
MMB4-29	239	355	4.33755
MMB4-175	159	427	4.34533
MMB4-114	331	395	4.38321
MMB4-186	371	161	4.42267
MMB4-126	302	380	4.45401
MMB4-159	267	263	4.47850
MMB4-49	280	334	4.48624
MMB4-149	226	362	4.50032
MMB4-168	633	269	4.51044
MMB4-187	633	179	4.51078
MMB4-17	277	345	4.52142
MMB4-91	336	294	4.52524
MMB4-147	475	102	4.55465
MMB4-54	240	325	4.57307

MMB4-104	324	305	4.61386
MMB4-62	216	302	4.61619
MMB4-157	338	186	4.62466
MMB4-109	248	369	4.63241
MMB4-83	304	232	4.66758
MMB4-21	237	393	4.68555
MMB4-176	143	432	4.69230
MMB4-03A	326	321	4.69919
MMB4-57	233	302	4.72105
MMB4-10	262	338	4.73652
MMB4-04	335	326	4.78623
MMB4-106	249	304	4.84431
MMB4-171	584	210	4.88957
MMB4-53	245	331	4.91209
MMB4-52	237	335	4.92685
MMB4-14	268	338	4.95573
MMB4-139	430	286	4.97874
MMB4-08	259	309	5.00403
MMB4-163	170	434	5.00897
MMB4-05	245	320	5.01484
MMB4-67	306	282	5.02435
MMB4-165	682	245	5.08606
MMB4-61	213	307	5.10662
MMB4-15	275	364	5.10878
MMB4-192	607	228	5.14335
MMB4-169	652	319	5.14582
MMB4-45	254	342	5.16463
MMB4-135	521	271	5.17753
MMB4-148	477	111	5.22622
MMB4-102	391	281	5.26278
MMB4-123	348	304	5.27094
MMB4-142	452	235	5.27412
MMB4-36	295	319	5.43465
MMB4-09	261	374	5.45011
MMB4-01	478	125	5.46191
MMB4-13	267	380	5.56605

MMB4-78	337	242	5.58028
MMB4-158	255	210	5.59640
MMB4-88	311	220	5.63126
MMB4-134	542	243	5.64297
MMB4-189	713	240	5.66417
MMB4-194	525	169	5.70888
MMB4-125	326	396	5.72384
MMB4-141	464	244	5.73211
MMB4-188	593	234	5.84139
MMB4-100	377	292	5.84387
MMB4-128	310	328	6.61042
MMB4-136	506	213	6.82127
MMB4-71	374	252	6.84034
MMB4-111	358	373	7.18915
MMB4-196	516	189	7.43286
MMB4-112	386	328	7.59371
MMB4-43	274	303	7.77088
MMB4-50	269	324	7.86824
MMB4-144	427	253	8.08469
MMB4-160	251	260	8.76314
MMB4-131	402	264	9.84426
MMB4-75	369	210	11.208100

---

Note: Samples are at Nilpena Station, South Australia, Australia.

\* Coordinates refer to position of specimens within the gridded bed. Bed was gridded at intervals of 100 cm (e.g. a specimen recorded as “100°S, 200°E” is located 100 cm south of the northern margin of the bed and 200 cm east of the western margin of the bed). Beds have been flipped and reassembled and are therefore no longer in place; i.e., bed coordinates do not reflect regional coordinates.

† Measured in ImageJ (Abramoff et al., 2004).

---