

Supplementary material, item 9993, for

G.P. Weedon; H.C. Jenkyns, 1999, Cyclostratigraphy and the Early Jurassic timescale: Data from the Belemnite Marls, Dorset, southern England: *GSA Bulletin*, v. 111, np. 12, p. 1823–1840, [https://doi.org/10.1130/0016-7606\(1999\)111<1823:CATEJT>2.3.CO;2](https://doi.org/10.1130/0016-7606(1999)111<1823:CATEJT>2.3.CO;2).

TABLE DR1. ANALYTICAL DATA FROM THE BELEMNITE MARLS, CHARMOUTH, DORSET, UK.

Sample number	Height (m)	*Age*1 (Myr)	wt% CaCO ₃	wt% TOC	Bed Numbers*2	Ammonite Biostratigraphy*3
S+1	23.91	N.A.	78.00	0.32	Top 121	Top <i>luridum</i> SZ & <i>ibex</i> Z
S0	23.88	N.A.	75.27	0.39	Base 121	Base <i>luridum</i> SZ
S-1	23.85	N.A.	57.28	0.75	Top120e	Top <i>valdani</i> SZ
S-2	23.82	N.A.	59.75	0.85		
S-3	23.79	N.A.	59.41	0.79		
S-4	23.76	N.A.	53.35	1.33		
S-5	23.73	N.A.	53.22	1.13		
S-6	23.70	N.A.	51.97	1.31	Base 120d	
S-7	23.67	1.6844	44.78	2.95	120c	
S-8	23.64	1.6833	41.42	3.66	Top 120b	
S-9	23.61	1.6822	36.21	3.99		
S-10	23.58	1.6811	36.62	4.76		
S-11	23.55	1.6800	35.72	5.10		
S-12	23.52	1.6750	38.35	3.59		
S-13	23.49	1.6700	51.80	2.39		
S-14	23.46	1.6600	27.90	3.54		
S-15	23.43	1.6500	44.00	2.35		
S-16	23.40	1.6400	27.20	3.10		
S-17	23.37	1.6367	36.59	4.70		
S-18	23.34	1.6333	41.40	3.48	Base 120a	
S-19	23.31	1.6300	43.98	3.09	Top 119	
S-20	23.28	1.6200	36.29	4.18		
S-21	23.25	1.6150	41.40	2.53		
S-22	23.22	1.6100	49.39	2.37		
S-23	23.19	1.6067	48.95	3.42		
S-24	23.16	1.6033	49.70	3.11		
S-25	23.13	1.6000	47.17	2.96		
S-26	23.10	1.5900	55.76	1.94		
S-27	23.07	1.5800	47.03	2.77		
S-28	23.04	1.5750	53.97	1.72		
S-29	23.01	1.5700	62.35	1.32		
S-30	22.98	1.5667	55.12	3.11		
S-31	22.95	1.5633	53.05	3.60		
S-32	22.92	1.5600	45.49	4.58		
S-33	22.89	1.5500	51.03	3.00		
S-34	22.86	1.5467	37.37	5.19		
S-35	22.83	1.5433	36.50	4.72		
S-36	22.80	1.5400	29.36	5.62		
S-37	22.77	1.5367	42.12	3.46		
S-38	22.74	1.5333	48.52	2.84		
S-39	22.71	1.5300	51.31	2.13		
S-40	22.68	1.5267	41.81	2.96		
S-41	22.65	1.5233	40.12	2.17		
S-42	22.62	1.5200	36.47	2.86		
S-43	22.59	1.5100	49.32	1.55		
S-44	22.56	1.5050	45.59	3.25		
S-45	22.53	1.5000	32.85	5.39		
S-46	22.50	1.4967	40.22	6.02		
S-47	22.47	1.4933	45.40	6.01		
S-48	22.44	1.4900	46.21	5.59		

S-49	22.41	1.4800	36.93	6.29		
S-50	22.38	1.4750	37.37	5.54	Base 119	
S-51	22.35	1.4700	57.74	1.48	Top 118d	
S-52	22.32	1.4650	44.83	3.29		
S-53	22.29	1.4600	43.65	3.87		
S-54	22.26	1.4580	47.92	2.97		
S-55	22.23	1.4560	52.14	1.47		
S-56	22.20	1.4540	55.12	1.03		
S-57	22.17	1.4520	58.37	1.08		
S-58	22.14	1.4500	59.49	1.11		
S-59	22.11	1.4450	50.99	1.87		
S-60	22.08	1.4400	48.14	1.93		
S-61	22.05	1.4367	50.66	1.89	?Base 118d	Base <i>valdani</i> SZ
S-62	22.02	1.4333	57.19	1.40	?Top 118c	Top <i>masseanum</i> SZ
S-63	21.99	1.4300	57.36	1.49		
S-64	21.96	1.4275	45.30	2.19		
S-65	21.93	1.4250	43.54	2.17		
S-66	21.90	1.4225	41.69	2.14		
S-67	21.87	1.4200	38.03	2.64		
S-68	21.84	1.4167	42.03	1.90		
S-69	21.81	1.4133	45.62	1.75		
S-70	21.78	1.4100	48.67	1.53		
S-71	21.75	1.4050	45.53	1.72		
S-72	21.72	1.4000	30.14	2.64		
S-73	21.69	1.3967	33.99	2.28		
S-74	21.66	1.3933	39.57	1.97		
S-75	21.63	1.3900	44.77	1.90		
S-76	21.60	1.3850	41.34	1.85		
S-77	21.57	1.3800	35.63	2.30		
S-78	21.54	1.3780	36.98	2.21	Base 118c	Base <i>masseanum</i> SZ & <i>ibex</i> Z
S-79	21.51	1.3760	43.72	1.76	Top 118b	Top <i>jamesoni</i> SZ & Z
S-80	21.48	1.3740	47.92	1.55	Base 118b	
S-81	21.45	1.3720	51.76	1.46	Top 118a	
S-82	21.42	1.3700	51.97	1.48		
S-83	21.39	1.3650	43.07	2.58		
S-84	21.36	1.3600	42.67	2.14		
S-85	21.33	1.3550	51.02	1.21		
S-86	21.30	1.3500	52.02	1.40		
S-87	21.27	1.3400	46.26	1.65		
S-88	21.24	1.3367	46.68	1.57		
S-89	21.21	1.3333	49.08	1.47		
S-90	21.18	1.3300	52.72	1.36		
S-91	21.15	1.3275	47.60	1.87		
S-92	21.12	1.3250	46.74	1.82		
S-93	21.09	1.3225	46.32	1.75		
S-94	21.06	1.3200	42.80	3.28		
S-95	21.03	1.3183	44.59	1.89		
S-96	21.00	1.3167	43.21	1.93		
S-97	20.97	1.3150	42.83	1.71		
S-98	20.94	1.3133	43.87	1.68		
S-99	20.91	1.3117	48.24	1.40		
S-100	20.88	1.3100	49.49	1.37		
S-101	20.85	1.3000	41.62	1.80		

S-102	20.82	1.2950	47.37	1.36	
S-103	20.79	1.2900	50.02	1.24	
S-104	20.76	1.2850	47.84	1.48	
S-105	20.73	1.2800	35.31	2.49	
S-106	20.70	1.2767	37.17	2.09	
S-107	20.67	1.2733	44.35	1.77	
S-108	20.64	1.2700	51.88	1.38	
S-109	20.61	1.2650	46.46	1.76	
S-110	20.58	1.2600	40.39	2.49	
S-111	20.55	1.2575	44.05	1.85	
S-112	20.52	1.2550	45.77	1.57	
S-113	20.49	1.2525	45.49	1.48	
S-114	20.46	1.2500	47.37	1.42	
S-115	20.43	1.2450	38.32	3.06	
S-116	20.40	1.2400	36.17	3.36	
S-117	20.37	1.2367	38.56	3.62	
BM+160	20.34	1.2333	44.56	3.10	Base 118a
BM+159	20.31	1.2300	50.16	2.06	Top 117
BM+158	20.28	1.2267	47.72	2.15	
BM+157	20.25	1.2233	46.52	2.72	
BM+156	20.22	1.2200	39.32	3.60	
BM+155	20.19	1.2183	39.77	2.85	
BM+154	20.16	1.2167	40.92	2.48	
BM+153	20.13	1.2150	43.15	2.10	
BM+152	20.10	1.2133	47.64	1.93	
BM+151	20.07	1.2117	55.97	1.42	
BM+150	20.04	1.2100	56.30	1.14	
BM+149	20.01	1.2050	44.84	1.94	
BM+148	19.98	1.2000	43.97	1.94	
BM+147	19.95	1.1975	45.16	2.00	
BM+146	19.92	1.1950	44.29	2.19	
BM+145	19.89	1.1925	48.63	1.83	
BM+144	19.86	1.1900	55.81	1.17	
BM+143	19.83	1.1800	49.07	1.59	
BM+142	19.80	1.1767	53.42	1.31	
BM+141	19.77	1.1733	55.84	1.21	
BM+140	19.74	1.1700	63.18	0.79	
BM+139	19.71	1.1650	62.78	0.96	Base 117
BM+138	19.68	1.1600	52.97	1.89	Top 116
BM+137	19.65	1.1567	53.11	1.93	
BM+136	19.62	1.1533	54.54	1.57	
BM+135	19.59	1.1500	55.49	1.40	
BM+134	19.56	1.1450	44.56	3.10	
BM+133	19.53	1.1400	43.97	3.17	
BM+132	19.50	1.1388	46.99	2.60	
BM+131	19.47	1.1375	44.73	2.77	
BM+130	19.44	1.1363	47.87	2.46	
BM+129	19.41	1.1350	45.98	2.72	
BM+128	19.38	1.1338	44.74	2.85	
BM+127	19.35	1.1325	48.00	2.77	
BM+126	19.32	1.1313	51.85	2.46	
BM+125	19.29	1.1300	57.90	1.57	
BM+124	19.26	1.1266	55.32	1.81	

BM+123	19.23	1.1233	47.03	3.22	Base 116 Top 115
BM+122	19.20	1.1200	44.32	2.21	
BM+121	19.17	1.1175	46.35	1.81	
BM+120	19.14	1.1150	52.37	1.57	
BM+119	19.11	1.1125	57.22	1.23	
BM+118	19.08	1.1100	58.45	1.09	
BM+117	19.05	1.1000	47.50	1.70	
BM+116	19.02	1.0966	51.81	1.11	
BM+115	18.99	1.0933	54.44	1.08	
BM+114	18.96	1.0900	56.73	0.89	
BM+113	18.93	1.0883	56.17	0.74	
BM+112	18.90	1.0867	55.28	0.71	
BM+111	18.87	1.0850	59.36	0.55	
BM+110	18.84	1.0833	60.64	0.56	
BM+109	18.81	1.0817	47.54	1.84	
BM+108	18.78	1.0800	43.73	2.07	
BM+107	18.75	1.0767	49.10	1.56	
BM+106	18.72	1.0733	57.23	0.90	
BM+105	18.69	1.0700	62.48	0.69	
BM+104	18.66	1.0686	58.49	1.12	
BM+103	18.63	1.0671	53.81	1.33	
BM+102	18.60	1.0657	54.69	1.10	
BM+101	18.57	1.0643	47.47	1.68	
BM+100	18.54	1.0629	45.21	1.97	
BM+99	18.51	1.0614	44.27	2.03	
BM+98	18.48	1.0600	40.52	2.26	
BM+97	18.45	1.0567	51.52	1.52	
BM+96	18.42	1.0533	53.24	1.36	
BM+95	18.39	1.0500	60.13	1.05	
BM+94	18.36	1.0400	53.06	1.24	
BM+93	18.33	1.0367	56.17	1.06	
BM+92	18.30	1.0333	58.79	0.96	
BM+91	18.27	1.0300	63.01	0.96	
BM+90	18.24	1.0267	55.01	1.25	
BM+89	18.21	1.0233	50.75	1.60	
BM+88	18.18	1.0200	49.97	1.47	
BM+87	18.15	1.0150	58.10	0.79	
BM+86	18.12	1.0100	62.22	0.93	
BM+85	18.09	1.0067	57.01	1.28	
BM+84	18.06	1.0033	52.37	1.29	
BM+83	18.03	1.0000	50.40	1.45	
BM+82	18.00	0.9967	54.17	1.11	
BM+81	17.97	0.9933	56.31	0.99	
BM+80	17.94	0.9900	56.45	1.07	
BM+79	17.91	0.9850	54.44	1.24	
BM+78	17.88	0.9800	45.83	1.57	
BM+77	17.85	0.9767	50.11	1.23	
BM+76	17.82	0.9733	52.07	1.02	
BM+75	17.79	0.9700	56.27	0.84	
BM+74	17.76	0.9650	53.03	0.95	
BM+73	17.73	0.9600	43.92	1.17	
BM+72	17.70	0.9567	44.02	1.19	
BM+71	17.67	0.9533	50.75	0.85	

BM+70	17.64	0.9500	54.43	0.67
BM+69	17.61	0.9450	51.77	0.89
BM+68	17.58	0.9400	42.05	1.48
BM+67	17.55	0.9375	42.28	1.19
BM+66	17.52	0.9350	48.23	1.02
BM+65	17.49	0.9325	60.33	0.59
BM+64	17.46	0.9300	64.45	0.67
BM+63	17.43	0.9275	62.92	0.64
BM+62	17.40	0.9250	53.57	0.86
BM+61	17.37	0.9225	50.76	1.39
BM+60	17.34	0.9200	45.14	1.54
BM+59	17.31	0.9150	49.74	1.02
BM+58	17.28	0.9100	58.85	0.70
BM+57	17.25	0.9050	58.64	0.92
BM+56	17.22	0.9000	57.46	1.02
BM+55	17.19	0.8975	58.24	1.05
BM+54	17.16	0.8950	63.40	0.85
BM+53	17.13	0.8925	65.17	0.67
BM+52	17.10	0.8900	66.07	0.70
BM+51	17.07	0.8880	65.92	0.74
BM+50	17.04	0.8860	65.68	0.75
BM+49	17.01	0.8840	57.92	0.90
BM+48	16.98	0.8820	50.59	0.98
BM+47	16.95	0.8800	49.41	1.11
BM+46	16.92	0.8767	54.83	0.84
BM+45	16.89	0.8733	59.68	0.77
BM+44	16.86	0.8700	66.41	0.75
BM+43	16.83	0.8667	64.77	0.76
BM+42	16.80	0.8633	47.43	2.11
BM+41	16.77	0.8600	43.01	2.61
BM+40	16.74	0.8580	44.96	1.96
BM+39	16.71	0.8560	51.96	1.30
BM+38	16.68	0.8540	56.98	0.99
BM+37	16.65	0.8520	62.00	0.62
BM+36	16.62	0.8500	62.64	0.55
BM+35	16.59	0.8475	55.46	0.67
BM+34	16.56	0.8450	47.33	2.83
BM+33	16.53	0.8425	44.77	4.24
BM+32	16.50	0.8400	35.26	4.12
BM+31	16.47	0.8367	39.92	2.73
BM+30	16.44	0.8333	53.10	0.95
BM+29	16.41	0.8300	58.00	0.70
BM+28	16.38	0.8280	56.04	1.10
BM+27	16.35	0.8260	49.96	1.45
BM+26	16.32	0.8240	41.72	2.43
BM+25	16.29	0.8220	37.42	5.13
BM+24	16.26	0.8200	31.85	5.21
BM+23	16.23	0.8180	37.27	2.35
BM+22	16.20	0.8160	39.32	1.91
BM+21	16.17	0.8140	51.01	1.04
BM+20	16.14	0.8120	52.64	0.94
BM+19	16.11	0.8100	54.95	0.90
BM+18	16.08	0.8067	50.67	1.44

Base 115
Top 114

Base *jamesoni* SZ
Top *brevispina* SZ

BM+17	16.05	0.8033	42.22	2.46		
BM+16	16.02	0.8000	38.70	2.63		
BM+15	15.99	0.7988	39.60	2.29		
BM+14	15.96	0.7975	39.94	2.46		
BM+13	15.93	0.7963	41.95	1.97		
BM+12	15.90	0.7950	46.28	1.83		
BM+11	15.87	0.7938	46.44	1.87		
BM+10	15.84	0.7925	48.42	1.76		
BM+9	15.81	0.7913	53.14	1.24		
BM+8	15.78	0.7900	53.82	0.96		
BM+7	15.75	0.7886	49.41	1.23		
BM+6	15.72	0.7871	45.95	1.51		
BM+5	15.69	0.7857	43.47	1.68		
BM+4	15.66	0.7843	40.02	1.90		
BM+3	15.63	0.7829	32.36	2.78		
BM+2	15.60	0.7814	31.53	3.15		
BM+1	15.57	0.7800	30.08	3.11		
BM0	15.54	0.7789	35.72	2.53	Base 114	
BM-1	15.51	0.7778	38.68	2.07	Top 113e	
BM-2	15.48	0.7767	49.97	0.66		
BM-3	15.45	0.7756	55.14	0.80		
BM-4	15.42	0.7744	59.62	0.62		
BM-5	15.39	0.7733	64.14	0.59		
BM-6	15.36	0.7722	67.55	0.59		
BM-7	15.33	0.7711	66.76	0.75		
BM-8	15.30	0.7700	70.12	0.51		
BM-9	15.27	0.7680	69.19	0.48		
BM-10	15.24	0.7660	59.82	0.61	Base 113e	
BM-11	15.21	0.7640	52.92	0.92	Top 113d	
BM-12	15.18	0.7620	44.35	1.75		
BM-13	15.15	0.7600	35.45	3.66		
BM-14	15.12	0.7586	46.85	1.90	Base 113d	
BM-15	15.09	0.7571	52.72	1.20	Top 113c	
BM-16	15.06	0.7557	59.32	0.99		
BM-17	15.03	0.7543	59.82	0.83		
BM-18	15.00	0.7529	66.87	0.55		
BM-19	14.97	0.7514	69.72	0.51		
BM-20	14.94	0.7500	70.90	0.40		
BM-21	14.91	0.7483	70.62	0.47		
BM-22	14.88	0.7467	69.84	0.40		
BM-23	14.85	0.7450	63.06	0.35		
BM-24	14.82	0.7433	60.81	0.45	Base 113c	
BM-25	14.79	0.7417	46.77	1.52	Top 113b	
BM-26	14.76	0.7400	39.97	1.96		
BM-27	14.73	0.7386	45.12	1.58	Base 113b	
BM-28	14.70	0.7371	52.15	0.92	Top 113a	
BM-29	14.67	0.7357	54.81	0.89		
BM-30	14.64	0.7343	59.92	0.63		
BM-31	14.61	0.7329	63.67	0.63		
BM-32	14.58	0.7314	65.70	0.52		
BM-33	14.55	0.7300	68.05	0.33		
BM-34	14.52	0.7280	66.02	0.47		
BM-35	14.49	0.7260	60.33	0.62	Base 113a	Base brevispina SZ

BM-36	14.46	0.7240	47.23	1.45	Top 112f	Top <i>polymorphus</i> SZ
BM-37	14.43	0.7220	41.82	2.03		
BM-38	14.40	0.7200	40.37	2.25		
BM-39	14.37	0.7180	45.97	1.75		
BM-40	14.34	0.7160	47.62	1.22		
BM-41	14.31	0.7140	50.47	0.94		
BM-42	14.28	0.7120	52.02	0.80		
BM-43	14.25	0.7100	52.05	0.96		
BM-44	14.22	0.7083	47.92	1.50		
BM-45	14.19	0.7067	45.49	1.94		
BM-46	14.16	0.7050	42.25	1.81		
BM-47	14.13	0.7033	41.27	2.10		
BM-48	14.10	0.7017	38.11	2.48		
BM-49	14.07	0.7000	35.07	2.70		
BM-50	14.04	0.6986	37.02	2.30	Base 112f	
BM-51	14.01	0.6971	37.84	2.02	Top 112e	
BM-52	13.98	0.6957	39.79	1.83		
BM-53	13.95	0.6943	40.53	2.05		
BM-54	13.92	0.6929	40.47	3.54		
BM-55	13.89	0.6914	45.37	3.73		
BM-56	13.86	0.6900	47.40	2.12		
BM-57	13.83	0.6886	46.66	2.18		
BM-58	13.80	0.6871	44.82	2.76		
BM-59	13.77	0.6857	43.98	3.50		
BM-60	13.74	0.6843	41.63	4.59		
BM-61	13.71	0.6829	43.10	4.35		
BM-62	13.68	0.6814	39.37	3.86		
BM-63	13.65	0.6800	35.59	3.96	Base 112e	
BM-64	13.62	0.6783	39.92	2.92	Top 112d	
BM-65	13.59	0.6767	48.35	1.48		
BM-66	13.56	0.6750	54.13	1.05		
BM-67	13.53	0.6733	56.56	1.05		
BM-68	13.50	0.6717	56.61	0.93		
BM-69	13.47	0.6700	57.24	0.92	Base 112d	
BM-70	13.44	0.6675	50.59	1.37	Top 112c	
BM-71	13.41	0.6650	47.27	1.51		
BM-72	13.38	0.6625	40.08	2.04		
BM-73	13.35	0.6600	38.33	1.79		
BM-74	13.32	0.6586	42.02	1.47	Base 112c	
BM-75	13.29	0.6571	43.57	1.65	Top 112b	
BM-76	13.26	0.6557	47.91	1.22		
BM-77	13.23	0.6543	50.27	1.02		
BM-78	13.20	0.6529	55.37	0.74		
BM-79	13.17	0.6514	56.39	0.82		
BM-80	13.14	0.6500	57.79	1.07		
BM-81	13.11	0.6483	57.00	0.89		
BM-82	13.08	0.6467	57.31	0.77		
BM-83	13.05	0.6450	56.48	0.82	Base 112b	
BM-84	13.02	0.6433	53.21	0.83	Top 112a	
BM-85	12.99	0.6417	52.33	0.87		
BM-86	12.96	0.6400	52.08	0.89		
BM-87	12.93	0.6386	55.21	0.65	Base 112a	
BM-88	12.90	0.6371	59.65	0.80	Top 111e	

BM-89	12.87	0.6357	69.36	0.51	
BM-90	12.84	0.6343	71.05	0.46	
BM-91	12.81	0.6329	73.96	0.36	
BM-92	12.78	0.6314	74.99	0.53	
BM-93	12.75	0.6300	77.11	0.40	
BM-94	12.72	0.6289	75.16	0.44	
BM-95	12.69	0.6278	71.21	0.62	
BM-96	12.66	0.6267	70.38	0.50	
BM-97	12.63	0.6256	69.01	0.56	
BM-98	12.60	0.6244	66.89	0.74	
BM-99	12.57	0.6233	66.18	0.63	
BM-100	12.54	0.6222	63.98	0.98	Base 111e
BM-101	12.51	0.6211	52.65	1.39	Top 111d
BM-102	12.48	0.6200	52.47	1.78	
BM-103	12.45	0.6180	53.58	2.23	Base 111d
BM-104	12.42	0.6160	64.72	0.93	Top 111c
BM-105	12.39	0.6140	68.08	0.86	
BM-106	12.36	0.6120	71.43	0.37	
BM-107	12.33	0.6100	71.76	0.56	
BM-108	12.30	0.6080	65.81	0.67	
BM-109	12.27	0.6060	61.11	1.02	Base 111c
BM-110	12.24	0.6040	58.78	0.95	Top 111b
BM-111	12.21	0.6020	54.75	1.15	
BM-112	12.18	0.6000	52.96	1.43	
BM-113	12.15	0.5983	55.41	1.32	
BM-114	12.12	0.5967	57.80	1.30	
BM-115	12.09	0.5950	61.71	0.97	
BM-116	12.06	0.5933	63.81	1.27	
BM-117	12.03	0.5917	65.01	0.88	
BM-118	12.00	0.5900	66.06	0.72	
BM-119	11.97	0.5850	65.08	0.66	
BM-120	11.94	0.5800	61.51	1.13	Base 111b
BM-121	11.91	0.5790	62.91	1.01	Top 111a
BM-122	11.88	0.5780	64.54	1.00	
BM-123	11.85	0.5770	66.85	0.81	
BM-124	11.82	0.5760	67.77	0.66	
BM-125	11.79	0.5750	68.80	0.57	
BM-126	11.76	0.5740	70.42	0.50	
BM-127	11.73	0.5730	70.75	0.39	
BM-128	11.70	0.5720	70.59	0.49	
BM-129	11.67	0.5710	70.58	0.68	
BM-130	11.64	0.5700	72.08	0.44	
BM-131	11.61	0.5688	69.48	0.59	
BM-132	11.58	0.5675	68.36	0.54	Base 111a
BM-133	11.55	0.5663	54.46	1.34	Top 110b
BM-134	11.52	0.5650	49.26	2.02	
BM-135	11.49	0.5638	46.69	2.73	
BM-136	11.46	0.5625	43.52	3.59	
BM-137	11.43	0.5613	43.49	4.82	
BM-138	11.40	0.5600	41.83	4.07	
BM-139	11.37	0.5590	41.97	4.02	
BM-140	11.34	0.5580	42.83	3.63	
BM-141	11.31	0.5570	42.08	3.46	

BM-142	11.28	0.5560	43.17	3.09
BM-143	11.25	0.5550	42.20	2.83
BM-144	11.22	0.5540	45.30	2.57
BM-145	11.19	0.5530	43.91	2.60
BM-146	11.16	0.5520	47.45	2.93
BM-147	11.13	0.5510	47.95	2.69
BM-148	11.10	0.5500	48.03	2.40
BM-149	11.07	0.5486	42.97	3.44
BM-150	11.04	0.5471	40.95	4.17
BM-151	11.01	0.5457	39.33	3.97
BM-152	10.98	0.5443	39.01	3.64
BM-153	10.95	0.5429	38.77	3.35
BM-154	10.92	0.5414	37.71	2.83
BM-155	10.89	0.5400	37.56	2.77
BM-156	10.86	0.5367	43.99	2.49
BM-157	10.83	0.5333	46.93	2.55
BM-158	10.80	0.5300	51.14	1.91
BM-159	10.77	0.5286	50.07	2.01
BM-160	10.74	0.5271	44.91	2.79
BM-161	10.71	0.5257	45.39	3.05
BM-162	10.68	0.5243	45.52	3.26
BM-163	10.65	0.5229	39.16	5.88
BM-164	10.62	0.5214	39.62	4.47
BM-165	10.59	0.5200	35.33	3.81
BM-166	10.56	0.5180	40.04	2.58
BM-167	10.53	0.5160	51.33	1.32
BM-168	10.50	0.5140	52.20	1.37
BM-169	10.47	0.5120	54.23	1.26
BM-170	10.44	0.5100	55.34	1.26
BM-171	10.41	0.5075	41.46	2.44
BM-172	10.38	0.5050	37.72	2.83
BM-173	10.35	0.5025	32.33	4.66
BM-174	10.32	0.5000	32.10	4.43
BM-175	10.29	0.4983	34.45	3.69
BM-176	10.26	0.4967	37.57	3.74
BM-177	10.23	0.4950	40.27	2.53
BM-178	10.20	0.4933	43.05	1.78
BM-179	10.17	0.4917	50.22	1.57
BM-180	10.14	0.4900	52.59	1.30
BM-181	10.11	0.4883	50.36	1.54
BM-182	10.08	0.4867	49.37	1.58
BM-183	10.05	0.4850	47.84	1.67
BM-184	10.02	0.4833	40.55	2.66
BM-185	9.99	0.4817	37.72	4.42
BM-186	9.96	0.4800	36.35	4.21
BM-187	9.93	0.4783	37.07	3.46
BM-188	9.90	0.4767	38.24	2.90
BM-189	9.87	0.4750	48.12	1.64
BMA28	9.84	0.4733	51.74	1.43
BMB1	9.81	0.4717	52.24	1.43
BMB2	9.78	0.4700	53.09	1.32
BMB3	9.75	0.4686	46.03	2.08
BMB4	9.72	0.4671	40.97	2.90

Base 110b
Top 110a

BMB5	9.69	0.4657	43.09	3.98
BMB6	9.66	0.4643	41.84	4.31
BMB7	9.63	0.4629	39.95	3.95
BMB8	9.60	0.4614	38.18	3.89
BMB9	9.57	0.4600	37.38	3.80
BMB10	9.54	0.4580	41.77	2.80
BMB11	9.51	0.4560	47.98	1.61
BMB12	9.48	0.4540	50.87	1.51
BMB13	9.45	0.4520	52.82	1.50
BMB14	9.42	0.4500	54.14	1.60
BMB15	9.39	0.4486	51.72	1.54
BMB16	9.36	0.4471	52.77	1.43
BMB17	9.33	0.4457	49.95	1.68
BMB18	9.30	0.4443	45.56	2.04
BMB19	9.27	0.4429	44.12	1.79
BMB20	9.24	0.4414	39.45	2.18
BMB21	9.21	0.4400	38.69	2.40
BMB22	9.18	0.4380	42.13	1.72
BMB23	9.15	0.4360	44.67	1.67
BMB24	9.12	0.4340	50.42	1.28
BMB25	9.09	0.4320	51.73	1.30
BMB26	9.06	0.4300	58.65	0.96
BMB27	9.03	0.4286	57.71	1.13
BMB28	9.00	0.4271	55.98	1.08
BMB29	8.97	0.4257	50.77	1.27
BMB30	8.94	0.4243	51.02	1.32
BMB31	8.91	0.4229	47.39	1.73
BMB32	8.88	0.4214	43.46	3.76
BMB33	8.85	0.4200	41.90	4.08
BMB34	8.82	0.4183	42.89	3.62
BMB35	8.79	0.4167	43.48	1.62
BMB36	8.76	0.4150	47.42	1.25
BMB37	8.73	0.4133	49.19	1.32
BMB38	8.70	0.4117	55.52	1.07
BMB39	8.67	0.4100	57.73	0.84
BMB40	8.64	0.4088	51.03	2.49
BMB41	8.61	0.4075	48.74	1.84
BMB42	8.58	0.4063	48.87	1.94
BMB43	8.55	0.4050	47.63	2.17
BMB44	8.52	0.4038	44.51	3.57
BMB45	8.49	0.4025	42.85	3.91
BMB46	8.46	0.4013	42.94	3.79
BMB47	8.43	0.4000	39.07	3.68
BMB48	8.40	0.3983	40.25	2.95
BMB49	8.37	0.3967	41.16	2.23
BMB50	8.34	0.3950	43.27	1.81
BMB51	8.31	0.3933	44.57	1.81
BMB52	8.28	0.3917	48.33	1.88
BMB53	8.25	0.3900	49.24	1.95
BMB54	8.22	0.3888	48.93	2.08
BMB55	8.19	0.3875	46.83	2.57
BMB56	8.16	0.3863	45.97	2.76
BMB57	8.13	0.3850	43.79	3.95

BMB58	8.10	0.3838	43.53	4.23
BMB59	8.07	0.3825	40.68	4.63
BMB60	8.04	0.3813	40.12	4.40
BMB61	8.01	0.3800	38.92	3.94
BMB62	7.98	0.3788	39.77	2.33
BMB63	7.95	0.3775	43.31	2.04
BMB64	7.92	0.3763	48.79	1.76
BMB65	7.89	0.3750	50.18	1.70
BMB66	7.86	0.3738	52.02	1.64
BMB67	7.83	0.3725	54.01	1.48
BMB68	7.80	0.3713	54.78	1.43
BMB69	7.77	0.3700	55.56	1.39
BMB70	7.74	0.3680	53.12	1.60
BMB71	7.71	0.3660	45.70	2.50
BMB72	7.68	0.3640	44.26	3.21
BMB73	7.65	0.3620	43.13	4.19
BMB74	7.62	0.3600	41.91	4.66
BMB75	7.59	0.3586	43.24	4.12
BMB76	7.56	0.3571	43.14	4.19
BMB77	7.53	0.3557	47.41	1.89
BMB78	7.50	0.3543	46.84	1.84
BMB79	7.47	0.3529	49.90	1.86
BMB80	7.44	0.3514	49.38	1.43
BMB81	7.41	0.3500	49.48	1.69
BMB82	7.38	0.3480	45.41	2.19
BMB83	7.35	0.3460	42.16	2.49
BMB84	7.32	0.3440	40.95	3.80
BMB85	7.29	0.3420	38.56	4.33
BMB86	7.26	0.3400	34.12	3.78
BMB87	7.23	0.3367	34.89	2.71
BMB88	7.20	0.3333	46.07	1.93
BMB89	7.17	0.3300	51.20	2.04
BMB90	7.14	0.3283	48.31	2.21
BMB91	7.11	0.3267	47.37	2.13
BMB92	7.08	0.3250	43.73	2.55
BMB93	7.05	0.3233	39.23	3.13
BMB94	7.02	0.3217	34.76	3.37
BMB95	6.99	0.3200	33.36	2.57
BMB96	6.96	0.3183	33.47	2.20
BMB97	6.93	0.3167	37.10	1.76
BMB98	6.90	0.3150	39.32	1.74
BMB99	6.87	0.3133	41.85	1.80
BMB100	6.84	0.3117	49.93	1.46
BMB101	6.81	0.3100	52.28	1.59
BMB102	6.78	0.3091	52.17	1.58
BMB103	6.75	0.3082	51.45	1.70
BMB104	6.72	0.3073	49.72	1.90
BMB105	6.69	0.3064	48.89	2.07
BMB106	6.66	0.3055	47.15	2.34
BMB107	6.63	0.3046	46.47	2.48
BMB108	6.60	0.3036	45.28	2.51
BMB109	6.57	0.3027	37.27	3.29
BMB110	6.54	0.3018	36.16	3.53

BMB111	6.51	0.3009	38.61	3.37
BMB112	6.48	0.3000	35.52	4.13
BMB113	6.45	0.2983	36.78	4.53
BMB114	6.42	0.2967	36.15	4.48
BMB115	6.39	0.2950	40.43	4.83
BMB116	6.36	0.2933	41.49	4.07
BMB117	6.33	0.2917	40.75	2.72
BMB118	6.30	0.2900	40.91	3.15
BMB119	6.27	0.2888	38.97	3.53
BMB120	6.24	0.2875	41.43	3.47
BMB121	6.21	0.2863	41.67	2.49
BMB122	6.18	0.2850	39.84	3.45
BMB123	6.15	0.2838	39.28	3.79
BMB124	6.12	0.2825	38.91	3.89
BMB125	6.09	0.2813	38.18	3.35
BMB126	6.06	0.2800	37.67	3.14
BMB127	6.03	0.2775	42.16	3.00
BMB128	6.00	0.2750	43.44	2.75
BMB129	5.97	0.2725	45.76	2.30
BMB130	5.94	0.2700	49.65	1.95
BMB131	5.91	0.2688	47.27	2.48
BMB132	5.88	0.2675	44.03	3.01
BMB133	5.85	0.2663	40.13	3.45
BMB134	5.82	0.2650	43.67	3.54
BMB135	5.79	0.2638	43.47	4.52
BMB136	5.76	0.2625	44.51	4.71
BMB137	5.73	0.2613	42.60	4.21
BMB138	5.70	0.2600	38.76	4.05
BMB139	5.67	0.2580	39.83	3.27
BMB140	5.64	0.2560	42.19	2.02
BMB141	5.61	0.2540	41.97	2.18
BMB142	5.58	0.2520	44.32	2.24
BMB143	5.55	0.2500	45.44	2.07
BMB144	5.52	0.2475	43.18	2.40
BMB145	5.49	0.2450	42.27	2.71
BMB146	5.46	0.2425	44.51	2.63
BMB147	5.43	0.2400	36.87	4.35
BMB148	5.40	0.2386	38.52	5.29
BMB149	5.37	0.2371	37.26	3.91
BMB150	5.34	0.2357	38.66	3.93
BMB151	5.31	0.2343	40.85	3.70
BMB152	5.28	0.2329	41.77	2.78
BMB153	5.25	0.2314	42.38	3.09
BMB154	5.22	0.2300	42.43	3.84
BMB155	5.19	0.2275	42.76	4.39
BMB156	5.16	0.2250	43.52	5.26
BMB157	5.13	0.2225	42.34	5.45
BMB158	5.10	0.2200	41.82	5.37
BMB159	5.07	0.2175	44.55	5.65
BMB160	5.04	0.2150	48.11	3.90
BMB161	5.01	0.2125	49.07	3.31
BMB162	4.98	0.2100	50.67	2.99
BMB163	4.95	0.2080	50.06	4.36

BMB164	4.92	0.2060	49.51	4.70
BMB165	4.89	0.2040	43.29	3.35
BMB166	4.86	0.2020	40.69	3.01
BMB167	4.83	0.2000	39.00	3.31
BMB168	4.80	0.1983	49.76	2.29
BMB169	4.77	0.1967	51.47	2.13
BMB170	4.74	0.1950	51.91	3.18
BMB171	4.71	0.1933	49.91	3.26
BMB172	4.68	0.1917	53.08	5.05
BMB173	4.65	0.1900	56.16	4.93
BMB174	4.62	0.1866	49.79	4.30
BMB175	4.59	0.1833	40.95	3.38
BMB176	4.56	0.1800	36.88	3.36
BMB177	4.53	0.1783	39.65	3.00
BMB178	4.50	0.1767	44.11	3.41
BMB179	4.47	0.1750	51.98	2.52
BMB180	4.44	0.1733	52.54	2.28
BMB181	4.41	0.1717	61.18	3.02
BMB182	4.38	0.1700	64.31	2.92
BMB183	4.35	0.1680	60.53	3.69
BMB184	4.32	0.1660	53.89	2.54
BMB185	4.29	0.1640	53.11	1.95
BMB186	4.26	0.1620	53.42	1.61
BMB187	4.23	0.1600	52.83	1.72
BMB188	4.20	0.1588	56.40	1.67
BMB189	4.17	0.1578	54.02	1.80
BMB190	4.14	0.1567	54.59	1.71
BMB191	4.11	0.1556	55.72	1.70
BMB192	4.08	0.1544	58.27	1.85
BMB193	4.05	0.1533	57.55	2.34
BMB194	4.02	0.1522	60.19	1.97
BMB195	3.99	0.1511	61.95	1.54
BMB196	3.96	0.1500	62.15	1.66
BMB197	3.93	0.1486	58.96	1.90
BMB198	3.90	0.1471	54.90	2.60
BMB199	3.87	0.1457	51.59	3.76
BMB200	3.84	0.1443	47.77	2.25
BMB201	3.81	0.1429	46.52	2.18
BMB202	3.78	0.1414	45.40	2.35
BMB203	3.75	0.1400	44.83	2.49
BMB204	3.72	0.1386	48.21	2.82
BMB205	3.69	0.1371	52.15	2.36
BMB206	3.66	0.1357	54.44	2.02
BMB207	3.63	0.1343	56.49	2.25
BMB208	3.60	0.1329	58.29	2.11
BMB209	3.57	0.1314	58.81	2.28
BMB210	3.54	0.1300	60.03	2.89
BMB211	3.51	0.1275	58.31	4.06
BMB212	3.48	0.1250	58.44	3.57
BMB213	3.45	0.1225	51.37	3.91
BMB214	3.42	0.1200	46.13	2.96
BMB215	3.39	0.1183	49.27	2.36
BMB216	3.36	0.1167	51.34	2.13

BMB217	3.33	0.1150	51.25	2.44		
BMB218	3.30	0.1133	52.97	2.39		
BMB219	3.27	0.1117	52.43	3.90		
BMB220	3.24	0.1100	53.67	3.45		
BMB221	3.21	0.1067	52.98	4.26		
BMB222	3.18	0.1033	50.73	5.46		
BMB223	3.15	0.1000	46.82	2.60		
BMB224	3.12	0.0986	53.64	1.46		
BMB225	3.09	0.0971	54.22	1.51	Base 110a	Base <i>polymorphus</i> SZ
BMB226	3.06	0.0957	60.40	1.04	Top 109	Top <i>taylori</i> SZ
BMB227	3.03	0.0943	62.21	0.97		
BMB228	3.00	0.0929	63.19	1.13		
BMB229	2.97	0.0914	62.54	1.30		
BMB230	2.94	0.0900	63.97	1.30		
BMB231	2.91	0.0891	63.60	1.40		
BMB232	2.88	0.0882	61.20	1.62		
BMB233	2.85	0.0873	59.55	1.86		
BMB234	2.82	0.0864	62.80	1.51		
BMB235	2.79	0.0855	62.17	1.59		
BMB236	2.76	0.0846	62.12	1.57		
BMB237	2.73	0.0836	60.91	1.74		
BMB238	2.70	0.0827	54.58	2.81	Base 109	
BMB239	2.67	0.0818	51.75	4.59	Top 108	
BMB240	2.64	0.0809	40.42	5.46		
BMB241	2.61	0.0800	39.60	5.55		
BMB242	2.58	0.0789	40.26	5.19		
BMB243	2.55	0.0778	39.95	4.72		
BMB244	2.52	0.0767	40.45	4.00		
BMB245	2.49	0.0756	47.36	2.79		
BMB246	2.46	0.0744	53.31	2.28		
BMB247	2.43	0.0733	55.20	2.10		
BMB248	2.40	0.0722	56.06	2.41		
BMB249	2.37	0.0711	55.61	2.41		
BMB250	2.34	0.0700	59.98	1.63		
BMB251	2.31	0.0686	57.67	1.70		
BMB252	2.28	0.0671	56.21	2.45		
BMB253	2.25	0.0657	55.86	2.21		
BMB254	2.22	0.0643	54.90	2.84		
BMB255	2.19	0.0629	52.42	4.34		
BMB256	2.16	0.0614	45.46	2.18		
BMB257	2.13	0.0600	43.44	2.65		
BMB258	2.10	0.0583	45.32	3.03		
BMB259	2.07	0.0567	47.96	3.37		
BMB260	2.04	0.0550	50.33	3.09		
BMB261	2.01	0.0533	51.27	2.90		
BMB262	1.98	0.0517	54.62	3.22		
BMB263	1.95	0.0500	55.91	3.49		
BMB264	1.92	0.0450	54.62	4.56		
BMB265	1.89	0.0400	46.92	4.88		
BMB266	1.86	0.0380	47.29	3.27		
BMB267	1.83	0.0360	51.91	3.10		
BMB268	1.80	0.0340	54.66	3.25		
BMB269	1.77	0.0320	58.92	3.78		

BMB270	1.74	0.0300	60.63	3.70	
BMB271	1.71	0.0275	52.43	3.41	
BMB272	1.68	0.0250	52.49	4.70	
BMB273	1.65	0.0225	50.72	3.47	
BMB274	1.62	0.0200	47.87	3.55	
BMB275	1.59	0.0175	48.99	3.01	
BMB276	1.56	0.0150	48.91	3.12	
BMB277	1.53	0.0125	55.31	3.66	
BMB278	1.50	0.0100	60.94	3.75	
BMB279	1.47	0.0080	56.38	3.87	
BMB280	1.44	0.0060	51.87	3.49	
BMB281	1.41	0.0040	49.35	1.90	
BMB282	1.38	0.0020	47.47	2.00	
BMB283	1.35	0.0000	46.94	2.20	
BMB284	1.32	N.A.	48.73	2.03	
BMB285	1.29	N.A.	49.86	1.83	
BMB286	1.26	N.A.	50.87	1.94	
BMB287	1.23	N.A.	53.15	1.77	
BMB288	1.20	N.A.	56.32	1.73	
BMB289	1.17	N.A.	61.11	1.48	Base 108
BMB290	1.14	N.A.	64.66	1.56	Top 107
BMB291	1.11	N.A.	70.61	1.39	
BMB292	1.08	N.A.	75.20	1.10	
BMB293	1.05	N.A.	77.09	0.86	
BMB294	1.02	N.A.	78.16	0.71	
BMB295	0.99	N.A.	72.37	0.63	
BMB296	0.96	N.A.	67.49	1.05	Base 107
BMB297	0.93	N.A.	50.08	2.49	Top 106
BMB298	0.90	N.A.	51.32	2.00	
BMB299	0.87	N.A.	54.51	2.26	
BMB300	0.84	N.A.	60.37	1.65	
BMB301	0.81	N.A.	59.32	2.04	
BMB302	0.78	N.A.	62.66	1.98	
BMB303	0.75	N.A.	68.13	1.68	
BMB304	0.72	N.A.	73.01	1.15	
BMB305	0.69	N.A.	67.30	0.89	
BMB306	0.66	N.A.	57.04	1.27	
BMB307	0.63	N.A.	57.06	1.37	
BMB308	0.60	N.A.	57.91	1.36	
BMB309	0.57	N.A.	57.87	2.12	Base 106
BMB310	0.54	N.A.	68.72	1.59	Top 105
BMB311	0.51	N.A.	69.23	1.59	
BMB312	0.48	N.A.	74.52	1.03	
BMB313	0.45	N.A.	74.12	0.88	
BMB314	0.42	N.A.	79.09	0.75	
BMB315	0.39	N.A.	86.38	0.32	
BMB316	0.36	N.A.	83.14	0.59	
BMB317	0.33	N.A.	82.62	0.58	
BMB318	0.30	N.A.	72.26	1.21	Bed 105
BMB319	0.27	N.A.	67.62	1.37	Top 104
BMB320	0.24	N.A.	64.42	1.70	
BMB321	0.21	N.A.	61.93	1.20	
BMB322	0.18	N.A.	63.46	1.06	

BMB323	0.15	N.A.	64.21	1.82		
BMB324	0.12	N.A.	65.82	1.94		
BMB325	0.09	N.A.	69.23	1.07	Base 104	
BMB326	0.06	N.A.	91.20	0.28	Top 103	
BMB327	0.03	N.A.	91.48	0.28		
BMB328	0.00	N.A.	90.12	0.29	Base 103	<i>B taylori</i> SZ & <i>jamesoni</i> Z

*1 "Age" refers to Belemnite Marls cyclostratigraphic time scale. This time scale was developed by assigning 10,000 years between carbonate maxima and minima (20kyr per couplet) for the part of the formation that is believed to be stratigraphically complete at the scale of couplets. Note that the "Age" values are not at constant time intervals.

*2 Bed numbers from Lang et al. (1928).

*3 Ammonite biostratigraphy from Lang et al. (1928) and Palmer (1972). Z = Zone, SZ = Subzone.