

Height (m)	$\delta^{13}\text{C}$ (‰)	$\delta^{18}\text{O}$ (‰)	CaCO <sub>3</sub> (%)
80.80	0.13	-2.58	
80.20	-0.33	-1.40	69.72
80.20	-0.32	-1.41	68.57
79.60	-0.11	-1.34	52.72
78.40	0.05	-1.31	60.58
77.80	-0.16	-1.45	66.42
77.80	0.08	-1.44	52.85
77.20	-0.18	-1.30	59.79
76.60	0.15	-1.72	46.95
76.40	-0.11	-1.43	61.06
76.40	-0.14	-1.40	59.43
76.20	0.22	-1.96	44.76
75.80	-0.27	-1.20	68.06
75.60	-0.18	-1.33	65.93
75.40	-0.04	-1.44	63.61
75.20	-0.21	-1.49	66.06
75.00	-0.01	-1.42	59.31
74.80	-0.35	-1.36	65.20
74.60	-0.22	-1.66	46.66
74.60	-0.16	-1.46	42.81
74.20	0.20	-1.64	49.86
74.00	0.63	-1.40	53.04
73.60	0.07	-1.15	67.52
73.20	0.07	-1.49	55.25
73.20	0.04	-1.55	53.62
73.00	-0.11	-1.50	49.05
72.80	-0.21	-2.14	
72.60	-0.45	-1.48	47.00
72.40	0.14	-1.92	
72.20	0.51	-1.30	36.75
72.00	0.18	-1.75	37.25
71.80	0.17	-1.35	55.55
71.60	0.38	-1.28	59.89
71.40	0.26	-1.25	58.59
71.20	0.13	-2.16	38.02
71.20	0.18	-1.89	41.62
71.00	0.19	-1.33	56.46
70.80	0.18	-1.74	37.84
70.00	0.41	-1.60	55.65
69.60	0.35	-1.59	46.75
69.40	0.21	-1.58	50.87
68.80	0.35	-1.54	54.78
68.20	0.50	-1.42	51.87
68.00	0.44	-1.44	60.63
67.80	0.37	-1.41	59.10
67.60	0.32	-1.69	47.09
67.40	0.60	-1.22	55.39
67.20	0.40	-1.46	54.87
67.00	0.34	-1.46	53.82

66.60			49.00
66.40	0.30	-1.43	50.16
66.20	0.33	-1.40	56.17
66.00	0.45	-1.56	44.92
65.80	0.37	-1.79	40.76
65.60	0.47	-1.77	46.52
65.40	0.60	-1.46	54.04
65.20	0.63	-1.36	56.74
65.00	0.47	-1.52	56.46
64.80	0.67	-1.53	52.11
64.60	0.62	-1.34	61.39
64.40	0.58	-1.53	44.92
64.20	0.42	-1.45	61.20
63.80			47.83
63.60	0.63	-1.38	58.67
63.60	1.91	-2.04	59.72
63.60	0.63	-1.34	53.91
63.40	0.71	-1.16	63.05
63.10	0.59	-1.29	63.63
62.90	0.70	-1.21	62.26
62.70	0.53	-1.46	56.07
62.50	0.52	-1.45	63.71
62.50			59.07
62.30	0.70	-1.08	68.36
62.10	0.49	-1.43	60.15
61.90	0.55	-1.26	63.61
61.70	0.58	-1.39	44.23
61.50	0.36	-1.56	48.39
61.50			44.92
61.30	0.21	-1.66	52.16
61.30			44.57
61.10	0.53	-1.71	32.55
60.90	0.39	-1.42	59.50
60.70	0.44	-1.40	61.50
60.70	0.49	-1.34	42.07
60.50	0.55	-1.43	55.48
60.30	0.63	-1.38	68.67
60.30			65.04
60.10	0.77	-1.21	66.95
59.90	0.58	-1.54	54.61
59.70	0.68	-1.34	63.16
59.50	0.60	-1.62	57.45
59.30	0.84	-1.34	64.71
59.10	0.79	-1.16	56.50
58.90	0.66	-1.75	56.96
58.70	0.70	-1.34	61.59
58.30	0.68	-1.36	59.64
58.10	0.61	-1.36	57.16
57.90	0.61	-1.44	60.26
57.70	0.64	-1.36	62.70

57.50	0.60	-1.44	57.53
57.30	0.59	-1.37	65.79
57.30	0.40	-1.91	46.26
57.10	0.63	-1.26	57.13
56.90	0.38	-1.60	49.65
56.70	0.38	-1.51	50.62
56.50	0.20	-1.86	39.44
56.30	0.39	-1.55	53.80
56.10	0.31	-1.86	49.61
55.90	0.53	-1.72	48.19
55.70	0.43	-1.58	52.79
55.70	0.48	-1.76	47.56
55.70	0.40	-1.64	53.75
55.50	0.54	-1.52	50.66
55.20	0.45	-1.35	57.61
55.10	0.01	-2.19	77.70
55.10	0.29	-1.73	36.14
55.00	0.15	-1.74	45.02
54.90	0.20	-1.45	53.01
54.80	-0.42	-2.91	
54.70	-0.12	-1.96	41.23
54.70			52.93
54.60	-0.07	-1.94	37.83
54.50	-0.40	-2.79	62.91
54.40	-0.51	-3.21	
54.30	0.15	-2.29	
54.20	0.19	-2.02	41.93
54.10	0.47	-1.47	57.23
54.00	0.35	-1.86	42.83
53.90	0.33	-1.64	52.92
53.80	0.61	-1.57	52.37
53.60	0.55	-1.75	52.02
53.40	0.71	-1.31	62.04
53.20	0.59	-1.66	59.98
53.00	0.51	-1.57	51.99
52.80	0.35	-1.93	44.63
52.60	0.57	-1.49	52.95
52.40	0.62	-1.65	46.07
52.20	0.68	-1.60	50.99
52.00	0.69	-1.48	57.89
51.80	0.57	-1.73	49.05
51.40	0.61	-1.72	50.27
51.20	0.69	-1.66	52.49
51.00	0.75	-1.48	56.35
50.80			56.05
50.60	0.78	-1.52	53.76
50.40	0.73	-1.57	55.52
50.20	0.64	-1.72	44.20
50.00	0.66	-1.66	51.54
49.80	0.50	-2.06	54.60

49.60	0.74	-1.58	54.35
49.60	0.74	-1.73	52.60
49.20			55.30
48.80	0.69	-1.82	55.96
48.60			56.97
48.40	0.71	-1.64	54.65
48.20	0.71	-1.75	53.60
48.00	0.69	-1.79	50.48
47.80	0.78	-1.66	46.06
47.60	0.91	-1.55	53.91
47.60	0.76	-1.88	51.14
47.20	0.75	-1.91	54.55
47.00	0.98	-1.45	62.10
46.80	0.92	-1.40	59.12
46.60	0.90	-1.83	40.57
46.40	1.01	-1.63	54.43
46.20	0.97	-1.72	45.46
46.00	0.96	-1.67	54.29
45.80	1.02	-1.53	53.99
45.60			48.54
45.40			51.29
45.20	0.97	-1.50	56.25
45.20	0.97	-1.57	54.12
45.00	0.89	-1.73	49.52
44.80	0.94	-1.49	54.05
44.60	0.86	-1.83	53.91
44.40	0.86	-1.68	49.79
44.20	0.96	-1.47	53.53
44.00	0.92	-1.74	51.82
43.80	0.88	-1.47	49.57
43.60	0.94	-1.67	53.43
43.40	0.91	-1.64	53.28
43.20	0.84	-1.52	53.78
42.85	0.76	-1.82	52.82
42.80	0.95	-1.61	50.12
42.60			41.12
42.40	0.81	-1.98	48.46
41.80	1.01	-1.76	49.80
41.60	0.88	-1.68	48.28
41.45	0.93	-1.66	48.12
41.40	1.12	-1.73	52.24
41.20	1.04	-1.65	48.01
41.00	1.14	-1.67	56.83
40.80	0.94	-2.54	44.43
40.60	0.93	-3.19	34.99
40.40	0.91	-2.53	49.83
40.20	0.84	-2.78	48.57
40.00	0.95	-2.46	52.02
39.80	0.90	-2.96	55.53
39.60	0.94	-1.72	56.59

39.35	0.97	-1.73	56.39
39.25	1.02	-1.45	62.25
39.18	0.86	-1.79	52.41
39.09	0.88	-1.61	58.88
38.97	0.85	-1.61	71.94
38.90	0.64	-2.03	47.60
38.82	1.05	-1.46	
38.74	0.89	-1.80	51.52
38.65	0.77	-1.80	53.70
38.65	1.06	-1.66	56.47
38.54	0.75	-1.96	49.55
38.47	0.96	-1.54	75.98
38.35	0.78	-1.91	50.36
38.25	0.93	-1.55	
38.15	0.85	-1.93	47.40
38.06	1.02	-1.68	61.20
38.02	1.05	-1.77	58.54
37.88	1.04	-1.72	60.26
37.83	0.91	-1.88	55.58
37.78	0.96	-1.88	57.76
37.73	0.96	-1.86	57.37
37.60	1.00	-1.64	70.17
37.53	0.75	-2.34	56.24
37.46	0.90	-1.75	72.69
37.28	0.31	-2.73	50.66
37.20	0.96	-1.48	69.48
37.09	0.80	-1.95	57.94
36.96	0.88	-1.61	61.35
36.84	0.87	-1.98	61.74
36.79	0.98	-1.70	66.13
36.62	0.91	-1.94	55.35
36.48	0.85	-1.93	63.59
36.42	0.60	-2.36	52.54
36.34	0.90	-1.67	66.79
36.20	0.49	-2.69	50.72
36.13	0.84	-2.02	58.13
35.97	0.85	-2.13	58.20
35.97	0.83	-2.10	57.24
35.83	0.19	-2.59	45.12
35.77	0.36	-2.71	44.31
35.70	0.90	-1.87	64.53
35.52	0.64	-2.47	51.28
35.35	0.71	-2.17	69.33
35.27	0.30	-2.94	41.19
35.07	0.34	-3.02	44.39
35.02	0.91	-1.58	
35.02	0.92	-1.70	67.56
34.76	0.50	-2.76	52.64
34.72	0.97	-1.96	70.43
34.60	0.85	-1.94	58.07

34.40	0.91	-1.63	
34.17	0.53	-2.73	48.97
34.03	0.86	-1.82	65.02
33.92	0.36	-2.89	47.83
33.82	0.74	-1.70	66.21
33.72	0.19	-2.98	45.45
33.60	0.81	-1.73	
33.48	0.57	-2.46	62.47
33.42	0.74	-2.39	57.14
33.32	0.71	-2.29	55.39
33.22	0.84	-2.08	67.38
33.12	0.45	-2.63	53.19
33.08	0.76	-1.80	69.44
33.00	0.65	-1.83	64.58
32.93	0.41	-2.48	57.34
32.75	0.48	-2.23	62.23
32.65	0.17	-2.80	50.52
32.55	0.56	-1.92	
32.43	0.40	-1.99	62.57
32.31	0.67	-1.73	
32.31	0.13	-2.79	49.51
32.24	0.48	-1.97	
32.08	0.29	-2.23	61.05
32.03	0.01	-2.77	49.29
31.92	0.36	-1.70	65.86
31.80	-0.22	-2.67	49.61
31.70	-0.06	-2.42	56.54
31.60	-0.03	-2.24	54.42
31.50	-0.04	-2.05	59.48
31.40	-0.66	-2.97	37.62
31.30	-0.68	-3.06	34.89
31.20	-0.70	-2.95	32.99
31.10	-0.41	-2.57	50.26
31.00	-0.42	-2.47	42.76
30.90	-0.47	-2.84	37.27
30.80	-0.11	-1.99	57.15
30.70	-0.61	-2.79	36.75
30.60	-0.87	-3.30	
30.50	-0.54	-3.08	42.56
30.40	-0.41	-2.55	40.52
30.30	-0.26	-2.33	59.10
30.20	-0.74	-3.17	
30.10	-0.44	-2.73	39.13
30.00	-0.49	-2.61	36.72
29.90	-0.50	-2.59	40.33
29.80	-0.77	-3.37	
29.70	-0.64	-2.65	37.55
29.60	-0.79	-3.05	31.15
29.50	-0.76	-3.36	
29.40	-0.50	-2.75	

29.30	-0.58	-2.63	34.11
29.25	-0.58	-2.65	35.06
29.20	-0.81	-3.37	
29.15	-0.60	-2.67	
29.10	-0.52	-2.78	
29.05	-0.88	-3.17	
29.00	-0.83	-3.28	
28.95	-1.21	-3.64	51.00
28.90	-1.19	-3.27	45.18
28.85	-0.16	-1.29	
28.80	-0.04	-3.64	
28.75	0.14	-1.76	9.39
28.70	-0.21	-3.41	46.87
28.60	0.74	-2.39	54.20
28.40	0.18	-3.39	38.93
28.20	0.75	-2.23	65.27
28.00	1.24	-2.14	50.39
27.80	1.20	-1.85	54.78
27.60	0.97	-2.52	44.44
27.40	1.11	-2.06	53.24
27.20	0.62	-2.49	43.65
27.00	0.67	-2.18	54.03
27.00	0.62	-2.05	52.41
26.80	0.90	-2.23	50.31
26.60	1.22	-2.07	54.86
26.40	1.00	-2.01	55.77
26.20	1.43	-1.83	54.98
26.00	1.14	-2.38	56.08
25.80	1.40	-1.81	62.17
25.60	1.18	-2.11	64.29
25.40	1.30	-2.15	55.63
25.20	1.01	-2.59	44.49
25.00	1.46	-1.91	57.07
24.80			52.26
24.60	1.45	-2.19	51.25
24.40	1.67	-1.87	57.08
24.20	1.56	-2.11	52.87
24.00	1.82	-1.84	60.41
23.80	1.68	-2.05	55.75
23.60	1.74	-1.69	64.40
23.40	1.80	-1.91	58.64
23.20	1.87	-1.81	54.08
23.00	1.84	-1.81	58.43
22.80	1.79	-1.73	60.58
22.60	1.78	-1.74	61.00
22.40	1.64	-2.05	60.50
22.30	1.56	-2.04	59.37
22.22	1.33	-2.00	59.45
22.00	1.65	-1.90	60.70
21.80	1.61	-2.13	57.60

21.60	1.48	-2.32	51.24
21.40	1.57	-1.79	50.39
21.20	1.59	-1.79	61.33
20.99	1.46	-1.87	57.06
20.80	1.50	-1.83	51.84
20.64	1.45	-1.93	59.01
20.55	1.31	-2.51	52.83
20.50	1.55	-1.87	62.77
20.43	1.26	-2.46	53.65
20.38	1.37	-2.36	58.09
20.29	1.04	-2.79	43.36
20.20	1.71	-1.72	56.19
20.00	1.79	-2.04	58.38
19.80	1.90	-1.72	61.20
19.60	1.85	-1.80	61.14
19.40	1.85	-1.79	44.45
19.20	1.92	-2.06	55.18
19.00	1.86	-2.08	57.50
18.80	1.97	-1.74	61.04
18.60	1.84	-1.92	58.72
18.52	0.56	-1.37	60.32
18.52	1.84	-2.00	54.00
18.39	1.81	-1.66	60.58
18.30	1.90	-1.88	57.40
18.21	1.90	-1.96	57.75
18.15	1.81	-1.91	64.07
18.07	1.88	-2.07	57.95
18.00	1.83	-1.72	61.43
17.80	1.84	-1.55	65.95
17.60	1.87	-1.97	55.51
17.40	1.68	-1.76	67.65
17.20	1.92	-1.70	62.28
16.95	1.82	-1.86	59.51
16.75	2.21	-1.96	56.47
16.64	1.77	-1.67	66.58
16.56	1.64	-2.47	49.49
16.31	1.63	-1.86	61.79
16.17	1.81	-2.04	55.36
15.98	1.65	-2.32	59.32
15.82	1.95	-2.18	56.62
15.71	1.97	-1.69	64.54
15.57	1.97	-1.85	59.85
15.43	1.84	-1.96	59.94
15.22	1.82	-2.15	58.11
14.92	1.64	-1.97	65.98
14.60	1.70	-1.74	60.73
14.52	0.42	-3.10	39.23
14.52	1.06	-2.73	44.64
14.32	1.91	-2.09	57.49
14.10	1.69	-2.42	50.45



13.85	2.22	-1.65	67.42
13.65	1.97	-2.26	53.95
13.55	2.19	-1.77	61.60
13.25	2.01	-2.27	56.23
13.20	2.10	-1.74	66.47
13.00	1.63	-2.49	48.68
12.86	1.98	-1.79	61.09
12.75	1.49	-2.52	47.32
12.62	2.18	-2.01	54.00
12.40	2.14	-2.20	55.87
12.30	2.33	-1.83	57.10
12.15	2.24	-2.03	53.93
11.90	2.32	-1.95	60.85
11.80	2.22	-2.17	55.83
11.64	2.40	-1.69	62.57
11.50	2.21	-2.20	51.71
11.40	2.39	-1.79	66.74
11.15	2.27	-2.10	51.90
11.00	2.38	-1.78	60.93
10.94	1.85	-1.93	61.01
10.84	2.32	-1.80	59.10
10.55	2.17	-1.87	59.12
10.38	2.22	-1.83	67.70
10.25	2.17	-2.06	58.26
10.01	1.99	-2.26	58.51
9.81	2.10	-2.34	56.23
9.70	2.11	-1.72	62.18
9.48	1.56	-2.74	46.23
9.48	1.82	-2.11	57.10
9.33	2.17	-2.07	62.22
9.11	2.01	-2.49	49.72
8.87	2.17	-1.96	68.29
8.75	1.88	-2.36	52.52
8.51	0.39	-1.56	58.58
8.51	1.97	-2.01	65.68
8.33	1.44	-2.77	42.69
8.13	1.61	-2.43	57.26
8.07	0.78	-3.24	
8.07	0.55	-3.45	
7.78	1.48	-2.46	51.28
7.65	1.30	-2.92	
7.43	2.20	-1.85	59.62
7.15	2.17	-2.33	54.20
6.98	2.08	-1.99	62.19
6.74	1.88	-2.41	51.92
6.55	2.04	-1.99	54.96
6.36	1.71	-2.45	40.64
6.14	1.90	-2.04	57.26
5.98	1.91	-2.49	43.61
5.84	2.32	-1.79	60.50

5.63	1.83	-2.56	37.23
5.41	2.38	-1.94	57.52
5.11	2.47	-1.95	57.53
4.81	2.40	-1.98	55.31
4.36	2.62	-1.86	59.88
4.05	2.53	-2.08	51.03
3.91	2.48	-1.78	56.36
3.75	2.28	-2.21	50.94
3.71	2.32	-1.94	55.34
3.66	2.39	-2.09	51.54
3.58	2.48	-2.10	54.56
3.51	2.43	-2.11	54.60
3.51	1.69	-2.29	54.22
3.51	2.36	-2.17	55.28
3.46	2.36	-1.93	58.06
3.27	2.09	-2.37	42.40
2.81	2.23	-2.34	51.56
2.76	2.37	-1.91	63.63
2.48	2.20	-2.44	51.76
2.20	2.15	-2.38	51.19
2.10	2.25	-2.29	53.37
1.99	2.30	-2.27	54.20
1.81	2.17	-2.31	50.75
1.72	1.96	-2.55	41.49
1.60	2.46	-2.06	55.81
1.07	1.68	-2.48	47.28
0.74	1.49	-2.89	32.40
0.62	2.14	-2.24	45.52
0.34	1.88	-2.52	49.26
0.14	2.33	-1.95	55.39
0.09	2.11	-2.19	55.21