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Supplement of

Equatorward phytoplankton migration during a cold spell within the Late Cretaceous super-greenhouse

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Table S1. Geochemical and palynological data for Pratts Landing. In column four the number of counts of *Cyclonephelium compactum-membraniphorum* morphological plexus (*Ccm*) per sample is listed. In column five the percentage of the total dinocyst assemblage represented by *Ccm* is listed. In column six the absolute number of cysts of *Ccm* is listed in cysts per dry gram of sediment (cpg). N.D. = not determined.

Sample	Height (m)	$\delta^{13}\text{C}$ (‰ VPDB)	<i>Ccm</i> (counts)	<i>Ccm</i> (%)	<i>Ccm</i> (cpg)
1	0	-25,52	N.D.	N.D.	N.D.
2	0,5	-25,56	1	0,5	41
3	1	-25,35	N.D.	N.D.	N.D.
4	1.5	-25.14	N.D.	N.D.	N.D.
5	2	-25.65	5	3.4	200
6	2.5	-25.32	N.D.	N.D.	N.D.
7	3	-25.34	N.D.	N.D.	N.D.
8	3.5	-25.39	6	4.0	174
9	4	-25.57	N.D.	N.D.	N.D.
10	4.5	-25.88	N.D.	N.D.	N.D.
11	5	-25.93	3	2.8	19
12	5.5	-25.86	N.D.	N.D.	N.D.
13	6	-25.25	N.D.	N.D.	N.D.
14	6.5	-25.14	7	3.6	433
15	7	-25.18	4	2.3	204
16	7.5	-25.40	N.D.	N.D.	N.D.
17	8	-25.33	1	0.6	83
18	8.5	-25.23	N.D.	N.D.	N.D.
19	9	-25.17	1	0.6	52
20	9.2	-25.23	N.D.	N.D.	N.D.
21	9.4	-24.85	N.D.	N.D.	N.D.
22	9.6	-25.16	N.D.	N.D.	N.D.
23	9.8	-25.01	N.D.	N.D.	N.D.
24	10	-25.13	4	1.8	277
25	10.2	-25.24	N.D.	N.D.	N.D.
26	10.4	-24.60	N.D.	N.D.	N.D.
27	10.6	-24.88	N.D.	N.D.	N.D.
28	10.8	-24.84	N.D.	N.D.	N.D.
29	11	-24.70	6	3.2	571
30	11.2	-24.64	N.D.	N.D.	N.D.
31	11.4	-24.83	N.D.	N.D.	N.D.
32	11.6	-24.50	N.D.	N.D.	N.D.
33	11.8	-24.35	N.D.	N.D.	N.D.
34	12	-23.89	32	18.7	5314
35	12.2	-24.30	N.D.	N.D.	N.D.
36	12.4	-24.34	N.D.	N.D.	N.D.
37	12.6	-23.62	N.D.	N.D.	N.D.
38	12.8	-24.08	3	1.8	699
39	13	-24.03	N.D.	N.D.	N.D.
40	13.2	-23.92	N.D.	N.D.	N.D.
41	13.4	-23.98	5	2.5	1059
42	13.6	-24.05	N.D.	N.D.	N.D.
43	13.8	-24.18	N.D.	N.D.	N.D.
44	14	N.D.	26	12.9	5615
45	14.2	-23.81	N.D.	N.D.	N.D.
46	14.4	-24.14	N.D.	N.D.	N.D.

Sample	Height (m)	$\delta^{13}\text{C}$ (‰ VPDB)	<i>Ccm</i> (counts)	<i>Ccm</i> (%)	<i>Ccm</i> (cpg)
48	14.8	-24.16	N.D.	N.D.	N.D.
49	15	-24.64	15	9.5	4913
50	15.2	-24.41	N.D.	N.D.	N.D.
51	15.4	-24.76	N.D.	N.D.	N.D.
52	15.6	-24.40	N.D.	N.D.	N.D.
53	16	-24.50	0	0.0	0
54	16.2	-24.44	N.D.	N.D.	N.D.
55	16.4	-24.74	N.D.	N.D.	N.D.
56	16.6	-24.77	N.D.	N.D.	N.D.
57	16.8	-24.08	N.D.	N.D.	N.D.
58	17	-24.77	2	1.7	438
59	17.2	-24.82	N.D.	N.D.	N.D.
60	17.4	-25.25	N.D.	N.D.	N.D.
61	17.6	-25.09	N.D.	N.D.	N.D.
62	17.8	-24.99	N.D.	N.D.	N.D.
63		N.D.	0	0.0	0
64	18.2	-25.51	N.D.	N.D.	N.D.
65	18.4	-25.72	N.D.	N.D.	N.D.
66	18.6	-25.91	N.D.	N.D.	N.D.
67	18.8	-25.61	N.D.	N.D.	N.D.
68	19	-25.04	6	5.5	3257
69	19.2	-25.66	N.D.	N.D.	N.D.
70	19.4	-25.58	N.D.	N.D.	N.D.
71	19.6	-25.72	N.D.	N.D.	N.D.
72	19.8	-25.57	N.D.	N.D.	N.D.
73	20	-25.75	8	5.7	404
74	20.5	-25.82	N.D.	N.D.	N.D.
75	21.5	-25.51	N.D.	N.D.	N.D.
76	22	-25.35	2	1.5	960
77	22.5	-25.95	N.D.	N.D.	N.D.
78	23	-25.98	N.D.	N.D.	N.D.
79	23	-25.93	N.D.	N.D.	N.D.