

Table 4. Summary of YDB markers found at the sites as discussed in this paper

Sites	Latitude—Longitude	Magnetic grains, g/kg	Magnetic microspherules, no. per kg	Glass-like carbon, g/kg	Carbon spherules, no. per kg	Charcoal, g/kg	³ He <i>R/R_{air}</i> in fullerenes*	Carbon soot, ppm	Black mat	Ir, max. ppb
Clovis										
With artifacts										
Blackwater Draw, NM	34.27564N 103.32633W	2.14	768	0.03	No	0.03	3 (max. 11)	No	Yes	24
Chobot, AB, Canada	52.99521N 114.71773W	1.92	578	0.11	11	0.19	—	No	Yes	No
Gainey, MI	42.93978N 83.72111W	3.20	2144	0.08	1232	0.12	—	—	No	No
Murray Springs, AZ	31.57103N 110.17814W	2.62	109	0.03	No	0.06	29 (max. 87)	21	Yes	2.2
Wally's Beach, AB	49.34183N 113.15440W	7.79	6	—	—	—	—	—	No	51
Topper, SC — T-1	33.00554N 81.49001W	0.51	—	0.06	257	No	—	—	No	2.8
Topper, SC — T-2	33.00545N 81.49056W	1.95	97	0.07	—	No	—	—	No	No
Clovis-age										
Daisy Cave, CA	34.04207N 120.32009W	Yes	Yes	Yes	Yes	Yes	81 (max. 108)	No	Yes	No
Lake Hind, MB, Canada	49.43970N 100.69783W	0.28	No	0.22	184	Yes	—	No	Yes	3.0
Lommel, Belgium	51.23580N 5.26403E	0.75	16	0.06	No	0.13	—	No	Yes	117
Morley drumlin, AB	51.14853N 114.93546W	9.90	1020	Yes	16	0.06	—	—	Yes	No
Carolina Bays										
Blackville, SC — T13	33.36120N 81.30440W	2.8	205	0.03	803	0.03	—	1969	No	15
Myrtle Beach, SC — M31	33.83776N 78.69565W	0.86	36	0.21	492	0.73	—	—	No	No
Howard Bay, NC — HB	34.81417N 78.84753W	1.27	22	0.01	1458	2.12	—	—	No	15
Lk Mattamuskeet — LM	35.51865N 76.267917W	16.12	—	.007	No	Yes	—	—	No	No
Carolina Bays										
Myrtle Beach, SC — M33	No paleosol reached	0.45	20	16.25	142	Yes	84 (max. 682)	No	No	2.1
Myrtle Beach, SC — M24	33.81883N 78.74181W	—	—	Yes	Yes	Yes	—	—	No	No
Myrtle Beach, SC — M32	33.83118N 78.72379W	—	—	Yes	Yes	Yes	—	—	No	No
Salters Lake, NC — B14	33.84034N 78.70906W	—	—	Yes	777	0.20	—	—	No	No
Lumberton, NC — L33	34.70992N 78.62043W	0.53	42	0.42	Yes	Yes	—	—	No	No
Lumberton, NC — L28	34.75566N 79.10870W	0.08	—	0.14	Yes	Yes	—	—	No	No
Lumberton, NC — L31	3477766. N 79.05008W	—	—	Yes	Yes	Yes	—	—	No	No
Lumberton, NC — L32	34.78117N 79.04774W	—	—	Yes	Yes	Yes	—	—	No	No
Lumberton, NC —	34.79324N 79.01871W	—	—	Yes	Yes	Yes	—	—	No	No

Sites	Latitude—Longitude	Magnetic grains, g/kg	Magnetic microspherules, no. per kg	Glass-like carbon, g/kg	Carbon spherules, no. per kg	Charcoal, g/kg	³ He R/R_{air} in fullerenes*	Carbon soot, ppm	Black mat	Ir, max. ppb
Moore City, NC — MCI	35.30104N 78.84753W	0.91	—	0.02	152	11.63	—	—	No	No
Sewell, NC — FS3	34.95800N 78.70280W	—	—	0.11	126	0.03	—	—	No	No
Lake Phelps — LP	35.78412N 76.434383W	17.10	—	.013	No	Yes	—	—	No	No
Averages		3.40	389	0.99	489	1.39	49 (max 222)	995		

*The first value is the total ³He (as R/R_{air}) released at all temperatures. max. indicates the highest ratio measured for ET He (³He as R/R_{air}) during step-heating of the fullerenes or acid-resistant residue.