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Supplemental Material

Thermal history modeling

The supplemental material contains input files for inverse thermal modeling of the results presented in Figures S1a and S1b.

Figure S1a. Thermal history results from QTQt (samples G1 to G22).

Figure S1b. Thermal history results from QTQt (samples G30 to G54).

Figure DR1a: Thermal history results from QTQt (samples G01 to G22).

Figure DR1b: Thermal history results from QTQt (from samples G30 to G54).

G01	5 18 1.41
-42.19 -69.17 0	17 33 1.46
0 0 0 0 0	
105	
0 1.5 0.5	
0 16.3	
0	
0	
1	
0 0	
0 0	
0 0	
1	
2	
481259.6 98 0 0 40 5.6 38 0	
0	
A 19.8 0.00060714 122300	
2 2 0	

G01	
0 0 0	
0 0 21 344.99 1.156e+06	
4798	
105	
0 1.617143 0.139145	
1 16.3	
0	
0	
1	
96.31 6.03	
0.00 0	
0.000 0	
16 24 1.79	
5 15 1.78	
8 25 1.47	
13 23 1.65	
82 164 1.72	
25 51 1.79	
53 91 1.69	
7 21 1.74	
18 40 1.82	
21 34 1.65	
33 54 1.44	
11 20 1.74	
17 42 1.46	
6 11 1.68	
8 22 1.66	
16 49 1.47	
9 25 1.53	
17 34 1.45	
13 26 1.56	

G02	25 59 1.83	13.55 56.77 1.873
-42.27 -69.41 0	10.31 57.21 2.026	13.25 85.94 1.846
0 0 0 0 0	12.37 73.11 1.863	11.39 32.85 1.846
105	11.82 48.03 1.77	12.65 53.6 1.846
0 1.5 0.5	11.86 76 1.9	10.1 44.2 1.843
0 16.3	11.00 28.28 1.75	13.93 17.38 1.983
0	14.88 39.24 1.846	15.19 67.48 1.89
0	12.34 48.26 1.9	14.08 36.4 1.786
1	13.24 85.84 1.74	11.07 59.47 1.786
0 0	12.66 23.2 1.763	15.57 44.32 2.16
0 0	14.05 84.54 1.896	14.64 62.39 1.953
0 0	13.98 62.03 1.773	9.01 42.27 1.786
2	12.27 68.2 1.773	11.87 59.37 1.163
2	13.89 69.19 1.94	15.76 46.75 1.86
159254.4 32 0 0 40.6 5.1	13.81 67.91 1.94	14.95 39.14 1.836
41 0 0	7.75 70.18 1.603	8.34 62.95 1.92
A 19.8 0.00060714 122300	12.48 28.51 1.72	15.24 85.4 1.91
2 2 0	13.00 86.05 1.646	14.5 77.14 1.91
70897.9 14 0 0 33 4.5 35 0	13.21 35.81 1.596	13.73 78.12 2.06
0	12.95 44.59 2.006	14.32 58.84 1.89
A 19.8 0.00060714 122300	14.7 72 1.616	13.62 87.09 1.89
2 2 0	14.19 56.49 1.896	10.61 75.78 2.023
	12.79 52.98 1.896	10.94 35.26 2.186
G02	11.95 73.12 1.913	14.12 63.22 2.013
0 0 0	12.6 45.12 1.52	11.21 52.78 1.97
0 80 16 344.99 1.151e+06	14.3 38.3 1.926	11.22 11.22 1.796
4798	14.24 87.73 1.796	10.8 34.37 1.796
105	10.78 72.59 1.796	14.11 71.43 1.94
0 1.886 0.180	11.68 87.68 1.703	11.61 84.16 1.91
1 16.3	11.59 33.63 1.703	13.6 73.37 1.85
-1	12.26 56.65 2.15	
0	12.83 43.8 1.966	
1	14.74 62.4 1.806	
108.21 10.93	13.41 94.81 1.806	
12.88 1.288	11.67 79.39 1.933	
1.638 0.1638	13.51 86.67 2.02	
3 6 2.02	10.82 47.44 1.87	
3 3 2.64	12.91 54.33 1.916	
2 3 2.19	13.6 3.39 1.916	
3 5 1.83	14.6 20.85 1.916	
1 1 1.87	13.34 13.35 1.976	
6 14 1.78	13.73 40.95 1.976	
1 2 1.9	13.19 45.48 1.976	
24 34 1.6	13.77 66.02 1.976	
1 2 1.64	14.48 26.48 1.863	
9 23 1.74	12.46 54.6 1.71	
13 16 2.5	11.56 81.13 1.826	
1 3 2.21	14.5 20.04 1.946	
21 44 2.03	15.46 27.18 1.946	
39 59 1.98	12.88 60.82 2.166	
3 8 1.87	12.87 33.02 2.05	

G04	40 104 1.55	12.87 18.0 1.62
-42.39 -69.52 0	47 133 1.63	13.14 24.0 1.62
0 0 0 0 0	23 41 1.72	10.1 27.0 1.62
105	56 111 1.72	12.98 31.0 1.563
0 1.5 0.5	24 47 1.71	11.15 42.0 1.563
0 16.3	63 139 1.72	12.95 61.0 1.78
0	46 108 1.59	12.03 70.0 1.723
0	52 113 1.6	11.57 69.0 1.723
1	46 116 1.75	11.82 81.0 1.847
0 0	8.58 58.48 1.603	11.94 1.0 1.756
0 0	9.13 47.63 1.603	12.5 27.0 1.756
0 0	14.55 31.66 1.573	16.68 16.0 1.91
3	9.88 34.4 1.92	10.34 43.0 1.91
2	7.68 29.31 1.92	13.5 65.0 1.91
204917.2 27 0 0 62.7 7.2	9.18 46.49 1.423	10.9 84.0 1.91
53 0 0	10.63 55.72 1.423	13.54 36.0 1.91
A 19.8 0.00060714 122300	11.8 8.48 1.633	9.68 54.0 1.91
2 2 0	12.3 38.33 1.633	10.84 36.0 1.81
257276.9 40 0 0 51.9 6.6	8.06 9.43 1.633	13.93 19.0 1.81
41 0 0	12.31 51.62 1.633	13.36 54.0 1.736
A 19.8 0.00060714 122300	11.47 75.00 1.49	11.68 42.0 1.736
2 2 0	10.9 50.00 1.61	10.11 23.0 1.643
729467.2 105 0 0 57.3 7.5	9.27 28.0 1.87	9.56 46.0 1.643
44 0 0	13.49 5.0 1.87	13.2 31.0 1.643
A 19.8 0.00060714 122300	12.75 53.0 1.87	
2 2 0	13.07 79.0 1.87	
	11.52 72.0 1.74	
G04	15.34 89.0 1.72	
0 0 0	11.43 23.0 1.8	
0 66 20 344.99 1.139e+06	11.5 51.0 1.536	
4798	14.83 50.0 1.536	
105	13.93 21.0 1.766	
0 1.708 0.126	13.8 17.0 1.676	
1 16.3	11.75 5.0 1.546	
-1	12.8 80.5 1.696	
0	12.94 80.5 1.603	
1	10.24 64.0 1.603	
87.30 3.78	12.43 82.0 1.753	
11.95 1.195	11.52 77.0 1.636	
1.873 0.1873	14.71 21.0 1.703	
20 44 1.7	11.67 35.0 1.703	
30 71 1.77	13.72 59.0 1.72	
37 68 2.12	9.44 79.0 1.713	
20 44 1.62	11.11 25.0 1.713	
105 209 1.75	13.36 83.0 1.713	
20 46 1.77	15.11 52.0 1.846	
25 63 1.71	12.5 73.0 1.79	
110 228 1.69	12.23 62.0 1.79	
28 72 1.55	14.66 38.0 1.79	
35 79 1.69	9.03 15.0 1.62	
40 102 1.56	11.8 19.0 1.62	

G06	13 30 2.32
-42.44 -68.78 0	4 7 2.85
0 0 0 0 0	12 21 2.91
105	8 13 2.23
0 1.5 0.5	25 43 2.64
0 16.3	8 19 2.85
0	6 11 2.75
0	6 9 2.43
1	5 8 2.61
0 0	14 24 2.57
0 0	6 13 2.81
0 0	15 25 2.73
1	12 20 3.09
2	3 5 2.91
70495.9 27 0 0 21.6 2.5 55	9 11 2.55
0 0	10 16 3.06
A 19.8 0.00060714 122300	5 12 2.38
2 2 0	

OSU10A_G06.apa

0 0 0
0 0 36 344.99 1.134e+06
8875
105
0 2.753889 0.280706
1 16.3
0
0
1
109.24 7.37
0.00 0
0.000 0
17 39 2.51
10 18 2.65
9 12 3.41
20 29 2.82
9 15 3.2
5 13 2.9
8 9 3.2
5 9 3.06
10 11 2.76
13 16 2.91
11 18 2.94
7 18 2.96
20 41 2.68
7 18 2.25
11 19 2.53
6 15 2.5
6 12 2.41
5 10 2.98
12 16 2.78

G07	267 333 1.72	9.04 77.0 1.863
-42.56 -69 0	67 92 1.71	14.27 89.0 1.863
0 0 0 0 0	73 123 1.85	13.11 83.0 2.136
105	97 143 1.79	12.8 62.0 2.136
0 1.5 0.5	89 114 1.52	12.94 83.0 2.136
0 16.3	118 151 1.79	12.71 71.0 1.903
0	25 43 2.64	13.6 17.0 1.903
0	8 19 2.85	12.82 39.0 1.903
1	6 11 2.75	15.38 85.0 1.903
0 0	6 9 2.43	12.18 81.0 1.903
0 0	5 8 2.61	11.68 35.0 1.903
0 0	14 24 2.57	7.41 12.0 1.903
2	6 13 2.81	10.18 21.0 1.946
2	15 25 2.73	11.09 72.0 1.946
1256944.8 135 0 0 76.5 9.4	12 20 3.09	13.44 85.0 1.946
52 0 0	3 5 2.91	13.24 74.0 1.946
A 19.8 0.00060714 122300	9 11 2.55	12.83 57.0 1.946
2 2 0	10 16 3.06	13.36 63.0 1.946
1587006.9 161 0 0 81.4 9.8	5 12 2.38	13.25 33.0 1.946
55 0 0	12.53 52.55 1.77	12.56 72.0 1.946
A 19.8 0.00060714 122300	12.37 88.42 1.77	12.78 70.0 1.946
2 2 0	12.06 79.81 1.77	12.3 88.0 1.946
	12.29 77.47 1.77	11.91 41.0 1.946
G07	10.63 36.49 1.77	12.01 76.0 1.906
0 0 0	13.18 74.13 1.873	12.82 65.0 1.906
0 100 34 344.99 1.16e+06	12.16 74.89 1.873	12.16 38.0 1.906
4798	13.18 81.41 1.873	13.42 35.0 1.906
105	11.61 67.83 1.873	13.68 68.0 1.906
0 1.937 0.282	13.58 71.19 1.716	12.16 64.0 1.84
1 16.3	10.86 22.8 1.716	11.15 53.0 1.84
-1	11.11 44.45 1.716	12.24 83.0 1.84
0	12.41 12.71 1.716	13.2 51.0 1.84
1	10.84 71.92 1.69	12.74 44.0 1.84
152.17 4.54	13.3 40.25 1.69	13.94 40.0 1.98
12.47 1.247	11.88 86.55 1.69	11.41 84.0 1.98
1.301 0.1301	14.49 85.42 1.793	13.13 74.0 1.98
104 129 1.7	11.41 60.05 1.793	11.36 69.0 1.98
55 75 1.95	13.14 11.55 1.793	15.28 20.0 1.98
136 189 1.76	12.62 14.44 1.793	11.4 65.0 1.98
144 179 1.62	13.78 42.0 1.896	12.72 50.0 1.98
102 131 1.77	13.76 37.0 1.896	14.04 22.0 1.633
190 205 1.91	10.91 65.0 1.896	11.95 35.0 1.633
77 90 1.51	13.67 82.0 1.896	12.12 63.0 1.633
85 107 1.78	10.93 57.0 1.896	14.06 21.0 1.633
54 78 1.95	12.0 55.0 1.896	11.86 79.0 1.633
208 267 1.71	10.81 89.0 1.896	12.56 53.0 2.023
101 140 1.83	13.78 73.0 1.896	12.65 60.0 2.023
146 178 1.64	15.33 88.0 1.896	12.156 63.0 2.023
124 147 1.53	13.56 13.0 1.896	13.44 74.0 2.023
99 112 1.5	14.83 34.0 1.863	11.25 21.0 1.58
138 177 1.62	13.47 58.0 1.863	11.62 74.0 1.58

12.3 74.0 1.923
13.11 89.0 1.923
11.46 67.0 1.923
9.86 39.0 2.006
11.65 55.0 2.006
12.73 62.0 2.006
10.78 82.0 2.006
11.36 68.0 2.01
10.97 54.0 2.01
12.87 64.0 2.01
13.02 48.0 2.01
12.81 49.0 1.856
14.4 41.0 1.856
11.2 73.0 1.856
11.45 52.0 1.856
13.95 78.0 1.856
13.58 55.0 1.856

G08	65 131 2.08	11.43 81 2.26
-42.56 -69 0	30 65 2.02	9.64 31 2.26
0 0 0 0 0	14.07 79 2.503	8.41 78 2.26
105	9.31 80 1.667	14.39 15 2.453
0 1.5 0.5	10.44 82 1.667	14.44 67 2.453
0 16.3	10.67 74 1.667	10.37 60 2.396
0	7.73 56 1.667	11.58 84 2.396
0	13.24 54 2.31	10.08 40 2.473
1	14.91 89 2.31	9.16 62 2.473
0 0	14.6 68 2.31	16.15 58 2.086
0 0	11.22 51 2.49	13.37 54 2.25
0 0	12.46 85 2.49	10.59 62 2.25
1	9.29 17 2.49	11.08 43 2.25
2	11.19 75 2.49	13.36 56 2.233
113056 17 0 0 51.4 6.7 39 0	15.83 76 2.016	14.81 30 2.233
0	14.4 41 1.893	9.05 44 2.233
A 19.8 0.00060714 122300	15.26 26 1.893	10.48 61 2.233
2 2 0	13.61 76 2.323	14 87 2.2
	13.74 87 2.323	11.19 49 2.2
G08	14.28 76 2.323	9.74 46 2.66
0 0 0	14.12 52 1.856	9.8 62 2.553
0 92 20 344.99 1.122e+06	15.38 37 1.856	8.37 71 2.553
4798	11.17 61 2.596	15.05 30 2.803
105	8.23 77 2.596	12.61 87 2.803
0 2.311 0.253	13.09 36 2.173	9.71 51 1.99
1 16.3	13.77 3 2.173	13.4 58 1.99
-1	13.6 25 2.486	14.45 25 2.3
0	10.63 78 2.486	10.3 79 2.07
1	12.75 80 2.73	10.6 56 2.513
74.09 3.60	16.61 35 2.613	11.92 43 2.513
12.11 1.211	12.6 83 2.613	13.67 38 2.446
2.226 0.2226	15.58 65 2.26	11.6 67 2.196
46 108 2.21	9.21 63 2.223	9.71 71 2.196
27 60 2.52	9.49 70 2.526	11.9 26 2.196
32 88 2.55	12.48 51 2.526	12.41 0 2.196
16 39 2.16	13.81 36 2.526	14.2 42.79 2.196
16 52 2.09	12.18 63 2.13	12.73 62 2.263
14 63 2.3	13.97 44 2.263	13.04 85 2.263
45 114 2.48	14.18 56 2.346	12.94 65 2.263
25 74 2.54	14.48 80 2.346	12.36 47 2.263
19 60 2.4	10.55 16 2.466	15.44 12 2.263
14 25 2.54	13.87 75 2.466	15.5 17 2.62
44 134 2.17	9.89 11 2.346	11.8 35 2.62
23 71 1.9	9.5 67 2.346	
51 112 2.2	12.63 56 2.346	
46 119 2.04	10.1 89 2.346	
46 132 1.88	8.84 53 2.346	
51 137 2.05	9.15 62 2.736	
10 36 1.88	8.04 62 2.736	
23 50 2.7	9.57 34 2.736	
	11.39 63 2.736	

G09	12 18 2.28	9.66 42.0 2.31
-42.41 -69.78 0	18 42 1.86	9.91 56.0 2.31
0 0 0 0 0	12 19 2.13	10.86 44.0 1.793
105	21 48 2.14	10.81 75.0 1.793
0 1.5 0.5	16 30 2.07	13.29 50.0 1.92
0 16.3	14 19 1.9	14.48 53.0 1.92
0	23 43 1.96	13.16 89.0 2.013
0	18 23 2.13	10.33 78.0 2.013
1	17 23 1.98	11.05 59.0 2.013
0 0	14 39 1.96	11.47 69.0 2.84
0 0	19 37 1.8	14.32 82.0 1.786
0 0	6 19 1.92	13.69 23.0 1.786
3	20 55 1.94	10.15 1.0 2.103
2	20 31 2.32	12.57 1.0 2.103
260075.3 54 0 0 35.1 5.5	17 19 1.82	10.35 28.0 2.103
32 0 0	27 67 1.8	10.57 61.0 2.103
A 19.8 0.00060714 122300	12 25 1.94	13.94 35.0 2.37
2 2 0	10 24 1.86	9.24 78.0 2.376
124150 31 0 0 32.3 4.6 33 0	15 32 1.76	13.8 47.0 2.376
0	19 36 2.15	13.26 67.0 2.356
A 19.8 0.00060714 122300	13 24 2.71	13.79 58.0 2.356
2 2 0	9 11 2.14	9.77 32.0 2.356
149903.5 36 0 0 34.6 4.6	14 28 1.77	11.94 16.0 2.356
43 0 0	12 25 1.77	10.38 69.0 2.356
A 19.8 0.00060714 122300	10 15 1.69	14.88 58.0 2.356
2 2 0	14 33 2.08	11.94 51.0 2.356
	22 27 2.15	14.73 62.0 1.943
G09	13 38 1.99	15.73 41.0 1.943
0 0 0	9 15 1.87	8.09 75.0 1.943
0 56 40 344.99 1.117e+06	11.63 45.0 1.736	11.81 41.0 1.943
8875	12.29 54.0 2.493	12.18 85.0 1.943
105	12.54 32.0 2.493	16.68 14.0 2.32
0 2.135 0.236	12.62 11.0 2.493	9.61 55.0 2.32
1 16.3	10.18 36.0 1.94	13.38 72.0 2.32
-1	12.19 64.0 2.42	
0	13.74 27.0 2.42	
1	11.43 68.0 2.42	
99.91 5.14	14.02 36.0 2.42	
12.02 1.202	12.27 77.0 2.42	
2.016 0.2016	9.0 89.0 2.42	
12 34 2.27	9.41 55.0 2.42	
8 13 2.05	14.93 84.0 2.42	
10 18 2.18	9.02 58.0 2.42	
28 64 2.41	14.04 81.0 1.95	
10 11 2.57	9.35 46.0 1.95	
13 23 2.36	14.38 81.0 1.953	
35 50 2.06	13.6 69.0 2.37	
9 21 1.85	10.57 83.0 2.193	
8 16 2.06	12.49 56.0 2.193	
16 24 2.02	8.56 69.0 2.31	
7 13 1.88	13.08 74.0 2.31	

G10
-42.1 69.77 0
0 0 0 0 0
105
0 1.5 0.5
0 16.3
0
0
1
0 0
0 0
0 0
2
2
172830.1 19 0 0 75.1 8 77 0
0
A 19.8 0.00060714 122300
2 2 0
163455.5 19 0 0 67.6 7.7
60 0 0
A 19.8 0.00060714 122300
2 2 0

G11
-42.31 -70.04 0
0 0 0 0 0
105
0 1.5 0.5
0 16.3
0
0
1
0 0
0 0
0 0
2
2
89896.4 23 0 0 31.8 4.2 38
0 0
A 19.8 0.00060714 122300
2 2 0
40621 9 0 0 34.1 4.3 43 0 0
A 19.8 0.00060714 122300
2 2 0

G13	11.02 83 1.89	10.73 79 1.993
0 0 0	10.34 54 1.89	12.13 53 1.993
0 61 34 344.99 1.094e+06	7.86 82 1.89	10.79 74 1.993
8875	14.02 36 1.89	12.97 67 1.993
105	11.57 56 1.89	9.84 69 2.016
0 1.903 0.197	10.77 72 1.89	13.53 89 1.85
1 16.3	9.42 20 1.89	
-1	13.52 23 1.89	
0	11.5 89 2.19	
1	10.7 79 2.19	
94.96 4.29	10.5 58 2.19	
11.73 1.173	13.15 84 2.19	
1.447 0.1447	11.3 70 2.19	
40 77 1.9	13.12 83 2.19	
52 84 1.9	10.69 61 2.19	
126 218 1.9	11.07 39 2.19	
33 42 1.9	11.99 58 1.843	
97 144 1.9	10.56 52 1.843	
48 60 1.9	12.94 83 1.843	
20 42 1.9	11.09 53 1.763	
55 113 1.9	12.46 46 1.85	
40 79 1.9	14.16 64 1.85	
52 110 1.9	13.67 85 1.946	
32 81 1.9	10.8 60 1.946	
33 64 1.9	11.6 61 1.886	
30 45 1.9	11.9 50 1.886	
61 157 1.9	11.34 83 2.00	
27 75 1.9	12.5 59 1.91	
36 45 1.9	12.44 49 1.91	
18 37 1.9	10.82 41 1.91	
74 175 1.9	14.31 38 1.91	
110 196 1.9	14.24 50 2.036	
40 60 1.9	12.86 70 2.036	
29 94 1.9	13.44 63 2.036	
16 46 1.9	13.33 64 1.92	
25 85 1.9	10.69 72 1.87	
26 48 1.9	13.73 25 1.87	
24 49 1.9	11.12 67 2.07	
17 68 1.9	12.45 52 1.94	
11 26 1.9	12.92 44 2.103	
3 5 1.9	10.67 19 2.103	
37 65 1.9	10.21 60 2.103	
100 218 1.9	11.96 83 1.973	
6 8 1.9	12.29 71 1.179	
24 39 1.9	10.92 76 1.179	
75 137 1.9	10.7 70 1.179	
58 112 1.9	12.99 86 1.179	
11.53 75 1.983	12.03 58 1.179	
7.76 45 1.983	10.06 70 1.87	
9.88 34 1.983	12.01 56 1.87	
11.42 85 1.89	13.06 51 1.87	

G14	65 96 1.71
-42.43 -68.83 0	51 90 1.72
0 0 0 0 0	59 80 1.59
105	124 181 1.6
0 1.5 0.5	37 62 1.75
0 16.3	37 83 1.55
0	23 83 1.69
0	45 61 1.56
1	26 78 1.55
0 0	44 112 1.63
0 0	29 52 1.72
0 0	61 55 1.72

2
 2
 291854.3 56 0 0 43.3 4.9
 58 0 0
 A 19.8 0.00060714 122300
 2 2 0
 357806.4 82 0 0 36.1 4.2
 54 0 0
 A 19.8 0.00060714 122300
 2 2 0

G14
 0 0 0
 0 0 27 344.99 1.089e+06
 4798
 105
 0 1.679259 0.115955
 1 16.3
 0
 0
 1
 112.56 8.30
 0.00 0
 0.000 0
 39 45 1.7
 32 102 1.77
 69 74 2.12
 17 32 1.62
 17 28 1.75
 25 17 1.77
 41 60 1.71
 50 96 1.69
 41 43 1.55
 13 20 1.69
 102 195 1.56
 63 73 1.55
 3 5 1.63
 50 137 1.72
 21 41 1.72

G15	5 12 1.85	13.15 11 1.766
-42.59 -68.81 0	6 9 1.62	13.16 53 1.583
0 0 0 0 0	7 20 1.72	13.27 52 1.76
105	9 15 1.84	11.11 77 1.496
0 1.5 0.5	7 18 2.15	12.95 50 1.636
0 16.3		11.59 78 1.596
0	G17	15.94 23 1.606
0	0 0 0	12.73 77 1.75
1	0 93 21 344.99 1.072e+06	13.72 46 1.74
0 0	8875	12.26 51 1.74
0 0	105	13.72 65 1.616
0 0	0 1.661 0.143	11.15 47 1.616
2	1 16.3	10.86 40 1.806
2	-1	12.51 43 1.513
26296.8 5 0 0 39.2 4.6 41 0	0	13.52 53 1.66
0	1	12.38 59 1.75
A 19.8 0.00060714 122300	73.59 3.34	12.5 53 1.75
2 2 0	12.76 1.276	11.76 61 2.00
65107.3 11 0 0 44.9 5.9 45	1.429 0.1429	12.63 49 1.443
0 0	35 102 1.79	11.84 15 1.663
A 19.8 0.00060714 122300	59 167 1.59	12.66 14 1.736
2 2 0	38 92 1.57	11.95 25 1.716
	38 72 1.66	11.39 84 1.74
OSU10A_G15A.apa	32 73 1.71	13.34 55 1.686
0 0 0	19 58 1.63	12.36 71 1.813
0 0 20 344.99 1.083e+06	28 61 1.53	12.09 24 1.71
4798	26 56 1.65	12.89 9 1.84
105	20 54 1.64	13.06 89 1.84
0 1.783500 0.211443	30 68 1.77	13.88 64 1.84
1 16.3	41 88 1.53	11.3 62 1.606
0	42 118 1.64	12.43 60 1.606
0	25 57 1.6	10.95 9 1.673
1	28 72 1.7	13.44 31 1.683
87.14 8.80	39 100 1.77	15.47 34 1.65
0.00 0	48 120 1.79	13.2 37 1.65
0.000 0	29 80 1.72	12.47 53 1.646
4 9 2.03	52 136 1.65	12.69 69 2.1
8 30 1.89	24 68 1.66	10.79 70 2.1
18 24 1.52	31 78 1.67	12.36 58 1.766
7 16 1.69	34 74 1.66	10.03 62 1.606
3 11 2.01	11.11 69 1.476	12.9 30 1.823
13 23 1.69	11.72 76 1.416	13.37 33 1.743
7 16 1.85	9.83 83 1.416	15.2 37 1.723
8 20 2.08	13.03 86 1.573	13.8 45 1.493
6 14 1.45	10.61 66 1.573	10.89 36 1.826
4 9 1.55	14.13 40 1.426	12.27 52 1.626
10 17 1.67	15.36 27 1.426	13.62 32 1.43
7 15 2.13	12.58 5 1.426	14.47 30 1.67
7 15 1.56	12.01 87 1.583	11.39 59 1.63
5 8 1.74	12.19 66 1.583	10.87 82 1.513
6 12 1.63	10.76 83 1.646	13.55 46 1.61

12.3 59 1.78
13.2 31 1.863
15.14 71 1.566
13.89 72 1.566
11.21 17 1.43
14.81 63 1.743
12.59 66 1.743
11.04 71 1.846
14.2 75 1.74
14.98 77 1.68
11.6 29 1.74
12.7 85 1.816
12.89 87 1.716
14.04 15 1.743
12.31 84 1.743
16.63 89 1.58
13.94 49 1.756
10.14 74 1.69
11.44 47 1.24
13.86 57 1.24
16.15 33 1.446
12.97 58 1.58
10.65 54 1.68
14.75 64 1.68
11.47 75 1.45
14.24 9 1.536
12.79 50 1.706
14.02 85 1.836
13.38 83 1.793
13.7 15 1.86
12.09 66 1.543

G18
-42.93 -71.26 0
0 0 0 0 0
105
0 1.5 0.5
0 16.3
0
0
1
0 0
0 0
0 0
1
2
42608.5 123 0 0 2.8 0.4 47
0 0
A 19.8 0.00060714 122300
2 2 0

G19
-42.81 -71.66 0
0 0 0 0 0
105
0 1.5 0.5
0 16.3
0
0
1
0 0
0 0
0 0
2
2
20037.8 49 0 0 3.3 0.4 42 0
0
A 19.8 0.00060714 122300
2 2 0
11635.1 68 0 0 1.4 0.2 39 0
0
A 19.8 0.00060714 122300
2 2 0

G20
-42.38 -71.25 0
0 0 0 0 0
105
0 1.5 0.5
0 16.3
0
0
1
0 0
0 0
0 0
3
2
20451.3 23 0 0 7.2 1 42 0 0
A 19.8 0.00060714 122300
2 2 0
12081.7 21 0 0 4.5 0.6 36 0
0
A 19.8 0.00060714 122300
2 2 0
5681.2 12 0 0 3.7 0.5 51 0 0
A 19.8 0.00060714 122300
2 2 0

G21	4 45 2.54
-42.17 -71.36 0	5 75 2.4
0 0 0 0 0	4 53 2.43
105	4 74 2.98
0 1.5 0.5	4 85 2.67
0 16.3	
0	
0	
1	
0 0	
0 0	
0 0	
2	
2	
41763.5 57 0 0 5.9 0.9 20 0	
0	
A 19.8 0.00060714 122300	
2 2 0	
32364.8 45 0 0 5.8 0.8 37 0	
0	
A 19.8 0.00060714 122300	
2 2 0	
OSU10A_G21.apa	
0 0 0	
0 0 20 344.99 1.06e+06	
4798	
105	
0 2.355000 0.441725	
1 16.3	
0	
0	
1	
11.48 1.24	
0.00 0	
0.000 0	
7 111 2.79	
3 55 1.86	
4 87 2.25	
3 49 2	
3 49 2.5	
3 54 1.48	
5 57 2.58	
9 122 2.56	
7 101 2.69	
3 51 1.18	
6 115 2.43	
3 52 2.44	
5 74 2.3	
5 80 2.22	
5 75 2.8	

G22	3 69 2.65
-42.03 -71.58 0	5 78 2.53
0 0 0 0 0	8 74 2.95
105	6 82 2.67
0 1.5 0.5	7 101 3.01
0 16.3	10 116 2.71
0	9 150 2.68
0	
1	
0 0	
0 0	
0 0	
2	
2	
33055.7 129 0 0 2.1 0.3 45	
0 0	
A 19.8 0.00060714 122300	
2 2 0	
19459.8 71 0 0 2.2 0.3 46 0	
0	
A 19.8 0.00060714 122300	
2 2 0	

G22	
0 0 0	
0 0 21 344.99 1.055e+06	
5000	
105	
0 2.711429 0.208837	
1 16.3	
0	
0	
1	
14.76 1.23	
0.00 0	
0.000 0	
4 58 2.46	
9 61 2.46	
7 135 2.46	
10 159 2.6	
8 50 2.9	
6 117 2.93	
10 74 2.38	
9 82 2.97	
5 98 2.75	
12 142 2.69	
4 75 2.9	
12 107 2.96	
5 70 2.4	

G30	4 7 1.27	12.17 67.77 1.3285
-43.74 -69.82 0	8 18 1.32	11.32 81.46 1.3285
0 0 0 0 0	9 17 1.41	10.77 42.43 1.3285
105	9 18 1.25	12.37 89.62 1.3285
0 1.5 0.5	23 42 1.37	11.27 16.8 1.3285
0 16.3	11 23 Dpar	11.77 58.24 1.3285
0	10 24 1.3285	12.06 6.25 1.3285
0	9 18 1.3285	11.48 69.02 1.3285
1	12 18 1.3285	14.17 38.23 1.3285
0 0	18 28 1.3285	12.72 32.26 1.3285
0 0	12 18 1.3285	11.95 48.07 1.3285
0 0	12 22 1.3285	13.82 69.02 1.3285
2	8 20 1.3285	12.14 51.04 1.3285
2	9 16 1.3285	13.31 70.07 1.3285
126233 13.8 0 0 73.4 0.7	11 24 1.3285	11.55 43.59 1.3285
78.3 0 0	11 21 1.3285	13.62 88.87 1.3285
A 19.8 0.00060714 122300	16 27 1.3285	11.74 59.58 1.3285
2 2 0	16 30 1.3285	11.02 32.82 1.3285
145207 17.6 0 0 63 0.6	5 10 1.3285	13.13 41.48 1.3285
55.6 0 0	10 19 1.3285	13.81 3.37 1.3285
A 19.8 0.00060714 122300	12 20 1.3285	11.11 62.74 1.3285
2 2 0	7 12 1.3285	11.56 79.52 1.3285
	6 10 1.3285	13.75 74.78 1.3285
G30	10 16 1.3285	13.47 55.46 1.3285
0 0 0	10 17 1.3285	11.76 15.44 1.3285
0 65 40 346.11 1.03e+06	14.42 69.57 1.3285	13.89 2.31 1.3285
5000	13.92 30.18 1.3285	12.16 21.14 1.3285
105	13.83 77.67 1.3285	12.9 34.23 1.3285
0 1.316 0.132	12.41 76.25 1.3285	13.46 76.01 1.3285
1 16.3	12.03 46.37 1.3285	10.17 28.45 1.3285
-1	13.57 67.11 1.3285	10.77 64.36 1.3285
0	11.73 63.65 1.3285	12.51 68.04 1.3285
1	14.26 56.63 1.3285	15.41 3.4 1.3285
93.18 5.73	11.77 32.67 1.3285	13.54 58.99 1.3285
12.61 1.261	14.39 64.58 1.3285	12.33 18.44 1.3285
1.225 0.1225	12.69 32.43 1.3285	12.71 39.92 1.3285
7 13 1.33	13.35 19.23 1.3285	12.05 47.25 1.3285
9 18 1.29	12.75 84.05 1.3285	10.81 68.96 1.3285
7 14 1.33	12.41 46.87 1.3285	11.37 76.04 1.3285
18 36 1.3	11.58 6.66 1.3285	
8 15 1.36	12.82 63.1 1.3285	
5 11 1.39	13.67 25.16 1.3285	
8 17 1.35	12.39 65.63 1.3285	
16 31 1.24	13.24 25.25 1.3285	
8 16 1.31	10.35 87.87 1.3285	
23 45 1.37	15.9 19.06 1.3285	
9 18 1.31	12.67 13.7 1.3285	
12 22 1.27	12.91 29.96 1.3285	
7 16 1.33	11.59 5.85 1.3285	
10 21 1.3	15.14 4.21 1.3285	
11 21 1.48	11.84 34.06 1.3285	

G31
 -43.66 -70.08 0
 0 0 0 0 0
 105
 0 1.5 0.5
 0 16.3
 0
 0
 1
 0 0
 0 0
 0 0
 3
 2
 0 13.5 0 0 52.3 5.3 59 0 0
 A 19.8 0.00060714 122300
 2 2 0
 0 21.3 0 0 45.2 5.3 43.2 0 0
 A 19.8 0.00060714 122300
 2 2 0
 0 12.6 0 0 41.4 4.4 56.4 0 0
 A 19.8 0.00060714 122300
 2 2 0

G31
 Zeta: Traditional
 zeta sig zeta rho-d (N/cm?)
 Nd
 346.11 11.81 1.01E+06
 5000
 Ns Ni Dpar
 5 9 1.3285
 16 39 1.3285
 9 17 1.3285
 18 42 1.3285
 20 45 1.3285
 18 43 1.3285
 19 40 1.3285
 18 44 1.3285
 17 45 1.3285
 18 42 1.3285
 12 23 1.3285
 23 60 1.3285
 32 107 1.3285
 48 105 1.3285
 19 68 1.3285
 24 71 1.3285
 13 39 1.3285
 38 104 1.3285
 17 45 1.3285
 34 90 1.3285

G35	8 18 1.3289
-43.32 -70.9 0	9 17 1.3289
0 0 0 0 0	9 18 1.3289
105	23 42 1.3289
0 1.5 0.5	15.24 38.6 1.3289
0 16.3	12.31 10.41 1.3289
0	10.57 12.57 1.3289
0	12.51 79.09 1.3289
1	10.73 12.6 1.3289
0 0	11.52 4.09 1.3289
0 0	14.11 82.93 1.3289
0 0	11.19 9.69 1.3289
2	12.75 6.32 1.3289
2	12.16 50.21 1.3289
22167 9.9 0 0 17.5 1.9 46.7	11.48 10.72 1.3289
0 0	10.6 5.89 1.3289
A 19.8 0.00060714 122300	14.9 25.42 1.3289
2 2 0	11.49 69.7 1.3289
14432 7.6 0 0 15.1 1.6 52.4	11.41 7.76 1.3289
0 0	12.35 65.11 1.3289
A 19.8 0.00060714 122300	10.82 38.98 1.3289
2 2 0	10.09 21.24 1.3289
	11.34 5.01 1.3289
G35	15.33 8.43 1.3289
0 0 0	11.41 58.19 1.3289
0 25 20 346.11 1e+06 5000	12.95 72.83 1.3289
105	10.26 68.75 1.3289
0 1.329 0.032	11.28 6.77 1.3289
1 16.3	14.67 9.53 1.3289
-1	
0	
1	
87.18 7.47	
12.14 1.214	
1.579 0.1579	
7 13 1.3725	
9 18 1.4	
7 14 1.3933333333333333	
18 36 1.3725	
8 15 1.3733333333333333	
5 11 1.33	
8 17 1.3425	
16 31 1.33	
8 16 1.375	
23 45 1.275	
9 18 1.2275	
12 22 1.35	
7 16 1.285	
10 21 1.25	
11 21 1.2575	
4 7 1.3289	

G37
-43.52 -71.52 0
0 0 0 0 0
105
0 1.5 0.5
0 16.3
0
0
1
0 0
0 0
0 0
2
2
141653 16.4 0 0 60 8.5
27.8 0 0
A 19.8 0.00060714 122300
2 2 0
149258 16.6 0 0 64.4 8.6
28.3 0 0
A 19.8 0.00060714 122300
2 2 0

G38
 -41.85 -71.42 0
 0 0 0 0 0
 105
 0 1.5 0.5
 0 16.3
 0
 0
 1
 0 0
 0 0
 0 0
 2
 2
 27338 37.1 0 0 6 0.7 37.4 0
 0
 A 19.8 0.00060714 122300
 2 2 0
 16316 33.9 0 0 3.9 0.4 50.5
 0 0
 A 19.8 0.00060714 122300
 2 2 0

G38
 Zeta: Traditional
 zeta sig zeta rho-d (N/cm?)
 Nd
 346.11 11.81 0.985E+06
 5000
 Ns Ni Dpar
 3 69 1.358
 4 93 1.358
 2 34 1.358
 8 117 1.358
 7 146 1.358
 6 103 1.358
 5 101 1.358
 3 55 1.358
 2 37 1.358
 3 58 1.358
 4 68 1.358
 4 73 1.358
 3 64 1.358
 4 76 1.358
 3 58 1.358
 3 52 1.358
 4 97 1.358
 9 216 1.358
 7 139 1.358
 4 87 1.358

G39
-41.56 -71.48 0
0 0 0 0 0
105
0 1.5 0.5
0 16.3
0
0
1
0 0
0 0
0 0
3
2
39981 8.7 0 0 31.6 0.3 30.3
0 0
A 19.8 0.00060714 122300
2 2 0
35918 10.2 0 0 23.8 0.2
26.2 0 0
A 19.8 0.00060714 122300
2 2 0
115956 22.6 0 0 35.3 0.4
25 0 0
A 19.8 0.00060714 122300
2 2 0

G40	4 39 1.34	14.6 39.91 1.337875
-40.34 -71.51 0	5 47 1.2775	13.77 40.44 1.337875
0 0 0 0 0	2 41 1.2275	13.42 53.61 1.337875
105	3 44 1.4125	13.55 66.04 1.337875
0 1.5 0.5	4 67 1.3825	14.22 66.29 1.337875
0 16.3	14.73 81.61 1.337875	13.05 30.65 1.337875
0	14.06 18.22 1.337875	13.15 72.81 1.337875
0	14.76 12.94 1.337875	14.61 37.47 1.337875
1	15.02 83.62 1.337875	13.53 46.82 1.337875
0 0	13.15 52.08 1.337875	13.21 12.2 1.337875
0 0	14.98 58.55 1.337875	14.13 52.24 1.337875
0 0	13.58 42.38 1.337875	14.32 41.65 1.337875
2	13.2 15.79 1.337875	14.03 74.39 1.337875
2	14.59 43.28 1.337875	13.74 68.63 1.337875
13772 35.9 0 0 3.2 0.4 33.7	13.89 65.3 1.337875	
0 0	13.66 72.65 1.337875	
A 19.8 0.00060714 122300	14.97 51.89 1.337875	
2 2 0	13.84 64.42 1.337875	
32916 38.2 0 0 7 0.9 29.8 0	14.44 31.72 1.337875	
0	13.46 75.77 1.337875	
A 19.8 0.00060714 122300	13.34 77.96 1.337875	
2 2 0	14.08 27.15 1.337875	
	13.97 38.18 1.337875	
G40	14.91 77.63 1.337875	
0 0 0	14.61 68.48 1.337875	
0 60 20 346.11 977000	14.17 40.69 1.337875	
5000	14.91 61.82 1.337875	
105	14.65 36.42 1.337875	
0 1.338 0.039	15.11 60.14 1.337875	
1 16.3	12.44 14.72 1.337875	
-1	13.25 16.06 1.337875	
0	14.38 63.29 1.337875	
1	13.42 48.34 1.337875	
14.16 1.60	13.07 55.57 1.337875	
13.87 1.387	12.68 72.23 1.337875	
0.725 0.0725	12.56 8.62 1.337875	
4 41 1.4475	13.05 22.37 1.337875	
3 45 1.4625	12.97 56.88 1.337875	
2 37 1.3575	14.36 35.5 1.337875	
5 62 1.3225	13.97 70.39 1.337875	
2 22 1.4075	14.56 35.5 1.337875	
6 72 1.2375	12.03 41.69 1.337875	
4 52 1.3225	14.25 12.27 1.337875	
4 63 1.26	13.62 84.78 1.337875	
4 47 1.3225	12.63 78.57 1.337875	
6 56 1.195	13.55 37.89 1.337875	
6 43 1.315	13.92 16.14 1.337875	
5 44 1.27	14.38 23.51 1.337875	
8 86 1.3925	13.56 56.94 1.337875	
4 59 1.345	13.58 31.31 1.337875	
5 59 1.46	14.28 86.8 1.337875	

G44	20 47 1.3975	13.98 51.24 1.3225
-41.21 -70.17 0	16 50 1.43	11.11 33.09 1.3225
0 0 0 0 0	29 54 1.3125	14.54 25.98 1.3225
105	10 21 1.385	12.13 18.32 1.3225
0 1.5 0.5	15 31 1.3675	12.23 15.19 1.3225
0 16.3	12.04 40.55 1.3225	12.35 63.72 1.3225
0	13.12 48.2 1.3225	11.4 31.9 1.3225
0	11.58 59.11 1.3225	10.73 34.45 1.3225
1	13.81 69.44 1.3225	12.07 32.88 1.3225
0 0	10.42 16.94 1.3225	13.09 40.94 1.3225
0 0	12.56 44.57 1.3225	14.08 14.23 1.3225
0 0	11.27 43.68 1.3225	12.37 22.39 1.3225
2	11.62 5.85 1.3225	10.12 1.45 1.3225
2	12.42 67.56 1.3225	10.5 81.85 1.3225
63247 9.1 0 0 53.1 6.2 44.8	10.1 67.19 1.3225	12.97 34.52 1.3225
0 0	11.34 85.63 1.3225	
A 19.8 0.00060714 122300	12.11 61.65 1.3225	
2 2 0	12.02 66.07 1.3225	
303657 44.6 0 0 55.4 6.1	10.24 46.21 1.3225	
50.4 0 0	11.1 47.75 1.3225	
A 19.8 0.00060714 122300	13.22 9.53 1.3225	
2 2 0	13.52 52.37 1.3225	
	11.98 75.02 1.3225	
G44	13.13 47.85 1.3225	
0 0 0	13.01 52.7 1.3225	
0 61 20 346.11 960000	12.22 82.52 1.3225	
5000	11.32 63.3 1.3225	
105	11.44 63.17 1.3225	
0 1.323 0.030	13.82 62.61 1.3225	
1 16.3	12.56 23.4 1.3225	
-1	12.09 51.84 1.3225	
0	12.43 66.0 1.3225	
1	11.02 59.73 1.3225	
83.38 4.77	12.94 57.54 1.3225	
12.09 1.209	11.6 45.14 1.3225	
1.075 0.1075	11.48 31.95 1.3225	
28 48 1.3225	12.32 56.61 1.3225	
27 47 1.3075	11.82 66.49 1.3225	
32 56 1.2475	11.46 47.16 1.3225	
34 51 1.29	11.15 17.59 1.3225	
26 56 1.24	12.28 48.91 1.3225	
36 72 1.3775	11.52 36.08 1.3225	
41 68 1.22	11.25 75.1 1.3225	
23 58 1.35	10.39 40.34 1.3225	
33 79 1.25	11.17 7.25 1.3225	
9 17 1.3525	13.23 20.45 1.3225	
11 30 1.315	12.79 47.1 1.3225	
39 64 1.3375	11.77 80.31 1.3225	
33 63 1.2975	13.67 60.72 1.3225	
13 29 1.405	14.03 87.97 1.3225	
14 27 1.245	11.36 44.19 1.3225	

G46
0 0 0
0 0 20 346.11 946000 5000
105
0 1.358000 0.000000
1 16.3
0
0
1
71.57 4.51
0.00 0
0.000 0
13 26 1.358
4 15 1.358
15 31 1.358
33 48 1.358
19 55 1.358
16 33 1.358
17 27 1.358
8 24 1.358
17 35 1.358
38 93 1.358
27 79 1.358
12 37 1.358
7 26 1.358
12 22 1.358
31 68 1.358
15 27 1.358
32 85 1.358
21 45 1.358
26 57 1.358
19 36 1.358

G47	12.46 66.47 1.3322
0 0 0	11.73 11.0 1.3322
0 33 20 346.11 939000	12.04 71.67 1.3322
5000	11.22 58.39 1.3322
105	13.56 18.37 1.3322
0 1.332 0.035	12.37 72.81 1.3322
1 16.3	11.28 66.34 1.3322
-1	12.17 46.59 1.3322
0	14.33 37.06 1.3322
1	10.97 10.02 1.3322
81.75 4.01	12.09 18.52 1.3322
11.90 1.19	13.63 9.33 1.3322
1.268 0.1268	15.1 79.98 1.3322
21 64 1.3025	13.05 19.23 1.3322
32 48 1.2925	11.3 22.65 1.3322
35 70 1.265	
65 146 1.345	
35 71 1.3	
46 105 1.2675	
25 54 1.3475	
23 55 1.315	
66 107 1.3575	
35 56 1.4	
37 58 1.2875	
36 74 1.24	
41 84 1.44	
20 43 1.405	
9 22 1.3375	
12 27 1.3475	
24 51 1.3175	
55 96 1.345	
41 74 1.2775	
25 44 1.4475	
10.91 21.19 1.3322	
8.5 65.25 1.3322	
12.07 56.55 1.3322	
10.58 16.5 1.3322	
10.33 74.94 1.3322	
12.08 45.7 1.3322	
10.82 65.74 1.3322	
12.87 52.42 1.3322	
12.88 49.61 1.3322	
12.52 53.85 1.3322	
11.26 36.97 1.3322	
11.92 52.99 1.3322	
10.5 26.3 1.3322	
12.12 54.73 1.3322	
12.63 67.64 1.3322	
10.64 41.99 1.3322	
11.23 32.88 1.3322	
11.45 65.67 1.3322	

G48	8 86 1.338
-40.89 -71.5 0	4 59 1.338
0 0 0 0 0	5 59 1.338
105	4 39 1.338
0 1.5 0.5	5 47 1.338
0 16.3	2 41 1.338
0	
0	
1	
0 0	
0 0	
0 0	
3	
2	
22054 47.8 0 0 3.7 0.4 42.8	
0 0	
A 19.8 0.00060714 122300	
2 2 0	
23517 43.5 0 0 4.4 0.5 50.3	
0 0	
A 19.8 0.00060714 122300	
2 2 0	
18720 28.4 0 0 5.3 0.6 46.5	
0 0	
A 19.8 0.00060714 122300	
2 2 0	

G48	
0 0 0	
0 0 20 346.11 977000 5000	
105	
0 1.338000 0.000000	
1 16.3	
0	
0	
1	
14.16 1.60	
0.00 0	
0.000 0	
4 41 1.338	
3 45 1.338	
2 37 1.338	
5 62 1.338	
2 22 1.338	
6 72 1.338	
4 52 1.338	
4 63 1.338	
4 47 1.338	
6 56 1.338	
6 43 1.338	
5 44 1.338	

G50	4 137 1.3225
-40.2 -71.36 0	2 42 1.3225
0 0 0 0 0	4 157 1.3225
105	3 125 1.3225
0 1.5 0.5	6 229 1.3225
0 16.3	3 115 1.3225
0	2 64 1.3225
0	2 59 1.3225
1	1 21 1.3225
0 0	2 73 1.3225
0 0	3 100 1.3225
0 0	
4	
2	
23618 75.3 0 0 2.5 0.3 32.6	
0 0	
A 19.8 0.00060714 122300	
2 2 0	
18111 45.2 0 0 3.2 0.4 48.9	
0 0	
A 19.8 0.00060714 122300	
2 2 0	
45107 114 0 0 3.2 0.4 41 0	
0	
A 19.8 0.00060714 122300	
2 2 0	
39855 100.8 0 0 3.2 0.4	
51.7 0 0	
A 19.8 0.00060714 122300	
2 2 0	
G50	
0 0 0	
0 0 19 346.11 915000 5000	
105	
0 1.322500 0.000000	
1 16.3	
0	
0	
1	
4.93 0.63	
0.00 0	
0.000 0	
7 175 1.3225	
2 58 1.3225	
8 209 1.3225	
4 112 1.3225	
2 67 1.3225	
2 61 1.3225	
5 185 1.3225	
1 34 1.3225	

G51	1 28 1.353
-40.13 -71.65 0	2 45 1.353
0 0 0 0 0	
105	
0 1.5 0.5	
0 16.3	
0	
0	
1	
0 0	
0 0	
0 0	
2	
2	
6474 19.7 0 0 2.7 0 45.9 0 0	
A 19.8 0.00060714 122300	
2 2 0	
2563 12.8 0 0 1.6 0 53 0 0	
A 19.8 0.00060714 122300	
2 2 0	

G51	
0 0 0	
0 0 20 346.11 900000 5000	
105	
0 1.353000 0.000000	
1 16.3	
0	
0	
1	
8.15 1.04	
0.00 0	
0.000 0	
4 114 1.353	
3 55 1.353	
2 38 1.353	
7 70 1.353	
2 46 1.353	
1 14 1.353	
1 12 1.353	
4 85 1.353	
8 94 1.353	
4 67 1.353	
2 47 1.353	
7 138 1.353	
5 84 1.353	
2 41 1.353	
2 52 1.353	
1 22 1.353	
6 171 1.353	
1 19 1.353	

G53	11.02 38.19 1.28675	11.67 51.91 1.28675
0 0 0	14.13 56.74 1.28675	14.81 54.44 1.28675
0 86 20 346.11 892000	14.12 69.31 1.28675	11.38 64.1 1.28675
5000	14.22 69.72 1.28675	12.92 34.94 1.28675
105	12.00 71.77 1.28675	12.63 41.26 1.28675
0 1.287 0.028	11.91 39.02 1.28675	13.9 14.97 1.28675
1 16.3	13.73 68.13 1.28675	12.19 4.15 1.28675
-1	14.2 27.1 1.28675	14.01 43.55 1.28675
0	12.57 35.04 1.28675	12.8 18.79 1.28675
1	12.61 41.27 1.28675	11.81 42.9 1.28675
59.34 3.63	12.33 86.88 1.28675	14.53 75.54 1.28675
12.67 1.267	12.72 82.44 1.28675	13.99 51.62 1.28675
1.142 0.1142	12.54 74.08 1.28675	13.52 35.9 1.28675
16 46 1.29	12.97 50.9 1.28675	12.2 76.25 1.28675
17 57 1.2475	11.22 62.24 1.28675	12.89 81.05 1.28675
20 52 1.2875	13.61 15.69 1.28675	11.23 61.00 1.28675
22 52 1.2175	14.41 85.22 1.28675	12.79 42.68 1.28675
21 61 1.2025	11.94 20.06 1.28675	
16 35 1.2075	12.35 39.54 1.28675	
16 44 1.2375	12.3 8.26 1.28675	
31 74 1.3825	12.97 67.85 1.28675	
17 38 1.2375	13.12 10.29 1.28675	
10 23 1.3925	12.12 22.62 1.28675	
17 36 1.3525	13.52 56.55 1.28675	
18 50 1.2175	11.98 12.11 1.28675	
13 41 1.255	12.67 6.09 1.28675	
5 16 1.345	12.24 40.61 1.28675	
33 82 1.3225	11.1 66.21 1.28675	
13 35 1.2575	12.09 15.67 1.28675	
24 53 1.2525	11.61 60.86 1.28675	
29 71 1.3225	12.35 65.29 1.28675	
32 83 1.42	13.7 60.84 1.28675	
22 66 1.2875	12.3 69.74 1.28675	
15.74 4.86 1.28675	12.56 18.18 1.28675	
12.67 46.69 1.28675	14.83 58.64 1.28675	
11.42 48.95 1.28675	11.27 28.04 1.28675	
10.71 87.14 1.28675	12.65 34.45 1.28675	
10.46 38.85 1.28675	11.15 79.72 1.28675	
15.12 28.07 1.28675	12.74 67.27 1.28675	
11.68 53.68 1.28675	13.79 18.05 1.28675	
13.85 73.02 1.28675	12.51 40.87 1.28675	
11.43 64.09 1.28675	12.52 10.5 1.28675	
13.24 11.29 1.28675	14.78 86.68 1.28675	
12.24 80.74 1.28675	11.96 88.43 1.28675	
11.87 26.29 1.28675	11.69 7.5 1.28675	
12.07 7.7 1.28675	12.81 20.66 1.28675	
13.52 67.7 1.28675	12.05 37.4 1.28675	
11.66 59.63 1.28675	12.45 62.53 1.28675	
13.76 84.61 1.28675	11.39 45.43 1.28675	
11.05 59.31 1.28675	14.54 44.88 1.28675	
13.13 72.25 1.28675	10.61 80.74 1.28675	

G54	13.51 35.82 1.275125	11.46 47.88 1.275125
0 0 0	11.45 68.85 1.275125	13.6 19.69 1.275125
0 100 20 346.11 885000	12.84 35.51 1.275125	14.98 26.73 1.275125
5000	11.4 61.24 1.275125	13.61 45.21 1.275125
105	11.16 32.28 1.275125	14.1 82.72 1.275125
0 1.275 0.016	11.07 12.57 1.275125	13.86 58.56 1.275125
1 16.3	13.62 64.21 1.275125	13.85 12.89 1.275125
-1	10.52 82.03 1.275125	13.63 87.01 1.275125
0	10.26 12.87 1.275125	12.11 15.12 1.275125
1	13.1 8.39 1.275125	12.23 16.00 1.275125
69.64 3.94	12.25 73.18 1.275125	15.76 64.58 1.275125
12.83 1.283	11.2 60.41 1.275125	10.73 11.9 1.275125
1.349 0.1349	12.6 15.95 1.275125	13.52 29.46 1.275125
27 58 1.22	11.24 56.26 1.275125	12.2 11.92 1.275125
38 86 1.2125	13.04 24.72 1.275125	12.89 56.69 1.275125
28 62 1.2975	15.41 57.37 1.275125	10.79 61.00 1.275125
12 29 1.2925	13.66 19.96 1.275125	11.87 86.45 1.275125
30 57 1.26	11.09 54.04 1.275125	13.69 32.45 1.275125
17 42 1.2725	14.22 57.63 1.275125	11.12 55.68 1.275125
17 38 1.2225	14.64 58.29 1.275125	13.12 35.9 1.275125
24 57 1.27	12.25 50.74 1.275125	10.72 76.25 1.275125
29 76 1.3525	12.45 22.33 1.275125	14.11 81.05 1.275125
31 70 1.2225	13.88 82.6 1.275125	12.38 17.82 1.275125
15 36 1.2775	14.43 57.21 1.275125	10.21 58.99 1.275125
7 19 1.32	13.19 37.26 1.275125	11.71 6.02 1.275125
18 39 1.2675	12.53 38.04 1.275125	12.53 84.54 1.275125
31 58 1.3225	15.21 42.41 1.275125	13.07 80.01 1.275125
28 60 1.2675	14.31 5.56 1.275125	12.12 70.44 1.275125
40 74 1.3325	11.86 74.32 1.275125	12.97 47.61 1.275125
16 34 1.2725	13.15 83.89 1.275125	14.59 42.98 1.275125
15 28 1.3025	12.09 6.52 1.275125	12.09 64.12 1.275125
46 102 1.255	11.49 13.95 1.275125	
17 38 1.2625	13.69 10.77 1.275125	
13.15 18.73 1.275125	15.08 17.99 1.275125	
11.95 74.85 1.275125	12.14 77.68 1.275125	
10.49 21.02 1.275125	12.27 39.69 1.275125	
11.86 79.69 1.275125	15.14 10.91 1.275125	
12.3 82.04 1.275125	14.64 57.97 1.275125	
11.14 14.78 1.275125	13.44 34.57 1.275125	
13.51 41.36 1.275125	13.53 29.04 1.275125	
13.02 25.26 1.275125	12.58 9.07 1.275125	
11.3 14.1 1.275125	15.95 79.72 1.275125	
12.59 10.66 1.275125	13.66 83.17 1.275125	
14.18 68.37 1.275125	11.36 66.63 1.275125	
13.48 66.96 1.275125	10.74 67.99 1.275125	
13.85 51.96 1.275125	13.17 68.65 1.275125	
11.72 14.48 1.275125	13.5 19.31 1.275125	
14.46 30.71 1.275125	12.01 10.41 1.275125	
14.47 77.97 1.275125	15.02 17.35 1.275125	
11.39 74.86 1.275125	13.24 19.69 1.275125	
13.92 41.37 1.275125	12.27 59.01 1.275125	