Supplementary data: raw data of branched GDGT distributions measure in core LM2 from Lake McKenzie

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **avg.** | **GDGT III** | **GDGT IIIa** | **GDGTIIIb** | **GDGTII** | **GDGTIIa** | **GDGTIIb** | **GDGI** | **GDGTIa** | **GDGTIb** |
| **Uncorrected Depth (cm)** | **m/z1050** | **m/z1048** | **m/z 1046** | **m/z 1036** | **m/z 1034** | **mz 1032** | **m/z 1022** | **m/z 1020** | **m/z 1018** |
| 0.5 | 8.53E+07 | 1.71E+06 | 1.42E+05 | 3.23E+08 | 3.00E+07 | 2.10E+06 | 1.97E+09 | 1.67E+08 | 1.08E+07 |
| 0.5 | 6.58E+07 | 1.29E+06 | 9.92E+04 | 2.31E+08 | 2.00E+07 | 1.95E+06 | 1.29E+09 | 1.53E+08 | 9.17E+06 |
| 0.5 | 5.50E+07 | 1.12E+06 | 8.02E+04 | 2.10E+08 | 1.54E+07 | 1.40E+06 | 1.00E+09 | 1.13E+08 | 8.79E+06 |
| 1.5 | 9.85E+07 | 1.73E+06 | 1.23E+05 | 3.28E+08 | 2.76E+07 | 2.55E+06 | 1.74E+09 | 1.84E+08 | 1.29E+07 |
| 1.5 | 8.30E+07 | 1.69E+06 | 1.21E+05 | 2.38E+08 | 2.17E+07 | 1.70E+06 | 1.37E+09 | 1.23E+08 | 8.37E+06 |
| 1.5 | 9.99E+07 | 2.03E+06 | 1.43E+05 | 3.24E+08 | 2.79E+07 | 2.24E+06 | 1.71E+09 | 1.60E+08 | 1.48E+07 |
| 1.5 | 5.68E+07 | 1.16E+06 | 8.28E+04 | 1.80E+08 | 1.14E+07 | 1.43E+06 | 8.80E+08 | 1.04E+08 | 7.96E+06 |
| 2.5 | 8.95E+07 | 1.83E+06 | 1.30E+05 | 3.24E+08 | 3.03E+07 | 2.27E+06 | 1.70E+09 | 1.29E+08 | 1.32E+07 |
| 2.5 | 2.37E+08 | 4.75E+06 | 3.19E+05 | 1.98E+09 | 1.95E+08 | 1.11E+07 | 8.84E+09 | 7.06E+08 | 5.52E+07 |
| 2.5 | 1.02E+08 | 2.08E+06 | 1.22E+05 | 3.44E+08 | 3.31E+07 | 2.63E+06 | 1.87E+09 | 1.45E+08 | 1.56E+07 |
| 3.5 | 2.61E+08 | 5.25E+06 | 3.28E+05 | 9.07E+08 | 7.57E+07 | 7.69E+06 | 4.61E+09 | 3.66E+08 | 4.18E+07 |
| 3.5 | 2.13E+08 | 4.67E+05 | 2.46E+04 | 6.74E+08 | 5.21E+07 | 7.06E+06 | 3.51E+09 | 3.52E+08 | 3.75E+07 |
| 3.5 | 2.34E+08 | 4.50E+06 | 2.65E+05 | 8.60E+08 | 6.65E+07 | 7.60E+06 | 3.98E+09 | 3.70E+08 | 3.93E+07 |
| 4.5 | 3.78E+07 | 6.38E+05 | 3.99E+04 | 1.38E+08 | 1.05E+07 | 1.19E+06 | 6.39E+08 | 6.17E+07 | 7.16E+06 |
| 4.5 | 7.32E+08 | 1.25E+07 | 7.73E+05 | 2.59E+09 | 2.01E+08 | 2.45E+07 | 1.12E+10 | 1.09E+09 | 1.14E+08 |
| 4.5 | 6.37E+08 | 1.08E+07 | 6.72E+05 | 2.18E+09 | 2.17E+08 | 2.16E+07 | 1.19E+10 | 9.92E+08 | 1.04E+08 |
| 4.5 | 7.17E+08 | 1.21E+07 | 7.57E+05 | 2.44E+09 | 2.28E+08 | 2.28E+07 | 1.27E+10 | 1.00E+09 | 9.70E+07 |
| 5.5 | 1.78E+08 | 3.57E+06 | 2.39E+05 | 6.50E+08 | 4.65E+07 | 5.70E+06 | 2.46E+09 | 2.94E+08 | 3.27E+07 |
| 5.5 | 2.16E+08 | 4.41E+06 | 2.59E+05 | 8.45E+08 | 6.67E+07 | 7.64E+06 | 3.64E+09 | 3.81E+08 | 3.87E+07 |
| 5.5 | 1.78E+08 | 3.58E+06 | 2.24E+05 | 6.62E+08 | 4.65E+07 | 5.27E+06 | 2.45E+09 | 2.77E+08 | 3.64E+07 |
| 6.5 | 2.15E+08 | 4.30E+06 | 2.26E+05 | 6.84E+08 | 8.04E+07 | 8.34E+06 | 4.35E+09 | 4.04E+08 | 5.04E+07 |
| 6.5 | 3.08E+08 | 6.16E+06 | 5.13E+05 | 1.07E+09 | 8.50E+07 | 1.06E+07 | 4.21E+09 | 5.09E+08 | 6.17E+07 |
| 6.5 | 3.31E+08 | 6.49E+06 | 4.99E+05 | 1.08E+09 | 9.45E+07 | 1.10E+07 | 5.02E+09 | 5.21E+08 | 6.43E+07 |
| 6.5 | 7.10E+08 | 1.45E+07 | 1.03E+06 | 2.44E+09 | 2.44E+08 | 2.15E+07 | 1.20E+10 | 1.10E+09 | 1.23E+08 |
| 6.5 | 7.17E+08 | 1.44E+07 | 9.64E+05 | 2.48E+09 | 2.48E+08 | 2.53E+07 | 1.22E+10 | 1.12E+09 | 1.16E+08 |
| 7.5 | 1.90E+08 | 3.88E+06 | 2.28E+05 | 6.00E+08 | 5.63E+07 | 6.61E+06 | 2.86E+09 | 3.24E+08 | 3.82E+07 |
| 7.5 | 1.91E+08 | 3.82E+06 | 3.18E+05 | 6.30E+08 | 7.18E+07 | 6.25E+06 | 3.03E+09 | 3.06E+08 | 3.29E+07 |
| 7.5 | 1.90E+08 | 3.73E+06 | 2.87E+05 | 5.63E+08 | 9.42E+07 | 6.62E+06 | 3.03E+09 | 3.00E+08 | 3.44E+07 |
| 8.5 | 1.91E+08 | 3.35E+06 | 2.39E+05 | 5.74E+08 | 5.34E+07 | 6.83E+06 | 3.12E+09 | 3.37E+08 | 3.76E+07 |
| 8.5 | 4.05E+08 | 8.23E+06 | 5.79E+05 | 1.33E+09 | 1.34E+08 | 1.35E+07 | 7.07E+09 | 6.59E+08 | 7.10E+07 |
| 8.5 | 4.01E+08 | 8.18E+06 | 5.85E+05 | 1.31E+09 | 1.41E+08 | 1.36E+07 | 7.25E+09 | 6.47E+08 | 6.55E+07 |
| 11.5 | 8.73E+07 | 1.78E+06 | 1.27E+05 | 3.21E+08 | 2.64E+07 | 3.29E+06 | 1.65E+09 | 1.83E+08 | 2.03E+07 |
| 11.5 | 9.35E+07 | 1.87E+06 | 1.26E+05 | 3.59E+08 | 1.53E+07 | 3.24E+06 | 1.51E+09 | 1.87E+08 | 2.53E+07 |
| 11.5 | 9.93E+07 | 2.03E+06 | 1.19E+05 | 3.32E+08 | 3.05E+07 | 3.43E+06 | 1.83E+09 | 1.90E+08 | 2.12E+07 |
| 11.5 | 7.88E+07 | 1.59E+06 | 9.91E+04 | 2.90E+08 | 2.17E+07 | 2.20E+06 | 1.37E+09 | 1.36E+08 | 1.84E+07 |
| 12.5 | 1.02E+08 | 2.27E+06 | 1.19E+05 | 3.99E+08 | 3.69E+07 | 5.06E+06 | 2.16E+09 | 2.57E+08 | 5.50E+07 |
| 12.5 | 1.34E+08 | 2.58E+06 | 1.52E+05 | 4.78E+08 | 4.41E+07 | 5.58E+06 | 2.79E+09 | 2.95E+08 | 3.32E+07 |
| 12.5 | 1.50E+08 | 2.53E+06 | 1.58E+05 | 5.54E+08 | 6.55E+07 | 5.13E+06 | 4.22E+09 | 2.63E+08 | 3.27E+07 |
| 13.5 | 1.53E+08 | 3.12E+06 | 2.23E+05 | 5.56E+08 | 5.56E+07 | 6.47E+06 | 3.29E+09 | 3.18E+08 | 3.67E+07 |
| 13.5 | 1.77E+08 | 3.55E+06 | 2.38E+05 | 6.62E+08 | 6.53E+07 | 7.73E+06 | 3.68E+09 | 3.62E+08 | 3.96E+07 |
| 13.5 | 1.76E+08 | 3.59E+06 | 2.11E+05 | 5.87E+08 | 7.03E+07 | 6.18E+06 | 3.28E+09 | 2.94E+08 | 4.17E+07 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **avg.** | **GDGT III** | **GDGT IIIa** | **GDGTIIIb** | **GDGTII** | **GDGTIIa** | **GDGTIIb** | **GDGI** | **GDGTIa** | **GDGTIb** |
| **Uncorrected Depth (cm)** | **m/z1050** | **m/z1048** | **m/z 1046** | **m/z 1036** | **m/z 1034** | **mz 1032** | **m/z 1022** | **m/z 1020** | **m/z 1018** |
| 14.5 | 1.16E+08 | 2.32E+06 | 1.93E+05 | 4.40E+08 | 3.97E+07 | 4.04E+06 | 2.31E+09 | 2.02E+08 | 2.38E+07 |
| 14.5 | 3.08E+08 | 6.16E+06 | 5.13E+05 | 1.17E+09 | 1.07E+08 | 1.25E+07 | 5.07E+09 | 5.24E+08 | 5.88E+07 |
| 14.5 | 2.94E+08 | 5.76E+06 | 4.43E+05 | 1.08E+09 | 1.00E+08 | 1.05E+07 | 5.38E+09 | 4.48E+08 | 5.60E+07 |
| 15.5 | 1.08E+08 | 2.20E+06 | 1.57E+05 | 4.27E+08 | 4.08E+07 | 4.87E+06 | 2.51E+09 | 2.16E+08 | 2.57E+07 |
| 15.5 | 1.65E+08 | 2.89E+06 | 2.06E+05 | 5.36E+08 | 4.74E+07 | 7.31E+06 | 2.72E+09 | 3.05E+08 | 3.17E+07 |
| 15.5 | 1.09E+08 | 2.22E+06 | 1.59E+05 | 4.25E+08 | 4.32E+07 | 5.35E+06 | 2.64E+09 | 2.38E+08 | 2.50E+07 |
| 16.5 | 1.61E+08 | 3.29E+06 | 2.35E+05 | 5.34E+08 | 4.81E+07 | 7.35E+06 | 2.71E+09 | 3.06E+08 | 3.17E+07 |
| 16.5 | 1.31E+08 | 2.67E+06 | 1.91E+05 | 5.08E+08 | 4.69E+07 | 6.27E+06 | 2.79E+09 | 2.85E+08 | 3.41E+07 |
| 17.5 | 8.01E+07 | 1.61E+06 | 1.08E+05 | 2.76E+08 | 3.42E+07 | 3.77E+06 | 2.16E+09 | 1.85E+08 | 2.74E+07 |
| 17.5 | 8.02E+07 | 1.64E+06 | 9.63E+04 | 2.76E+08 | 4.49E+07 | 3.51E+06 | 2.16E+09 | 1.87E+08 | 2.73E+07 |
| 17.5 | 2.59E+08 | 5.21E+06 | 3.26E+05 | 9.05E+08 | 1.01E+08 | 1.31E+07 | 5.77E+09 | 5.56E+08 | 6.88E+07 |
| 17.5 | 2.01E+08 | 4.41E+06 | 2.32E+05 | 8.80E+08 | 9.71E+07 | 1.21E+07 | 5.50E+09 | 5.54E+08 | 7.11E+07 |
| 18.5 | 9.88E+07 | 1.98E+06 | 1.33E+05 | 3.38E+08 | 2.94E+07 | 3.69E+06 | 1.97E+09 | 2.23E+08 | 2.44E+07 |
| 18.5 | 1.10E+08 | 2.24E+06 | 1.32E+05 | 4.08E+08 | 4.33E+07 | 4.46E+06 | 2.86E+09 | 2.67E+08 | 3.17E+07 |
| 18.5 | 1.31E+08 | 2.64E+06 | 1.65E+05 | 4.89E+08 | 4.42E+07 | 5.54E+06 | 2.89E+09 | 3.29E+08 | 2.98E+07 |
| 19.5 | 8.26E+07 | 1.84E+06 | 9.66E+04 | 2.97E+08 | 3.33E+07 | 2.74E+06 | 2.23E+09 | 1.57E+08 | 2.10E+07 |
| 19.5 | 2.23E+08 | 4.55E+06 | 3.25E+05 | 7.59E+08 | 7.79E+07 | 6.77E+06 | 4.63E+09 | 3.82E+08 | 3.66E+07 |
| 19.5 | 2.23E+08 | 4.47E+06 | 3.00E+05 | 7.45E+08 | 8.41E+07 | 8.50E+06 | 4.88E+09 | 4.28E+08 | 5.29E+07 |
| 20.5 | 2.82E+08 | 5.76E+06 | 3.39E+05 | 9.44E+08 | 7.72E+07 | 1.10E+07 | 5.42E+09 | 5.98E+08 | 7.27E+07 |
| 20.5 | 5.25E+08 | 1.05E+07 | 8.75E+05 | 1.70E+09 | 1.33E+08 | 1.77E+07 | 8.75E+09 | 1.04E+09 | 1.18E+08 |
| 20.5 | 2.54E+08 | 5.08E+06 | 4.23E+05 | 9.09E+08 | 6.93E+07 | 1.01E+07 | 4.53E+09 | 5.45E+08 | 7.92E+07 |
| 21.5 | 2.84E+08 | 5.57E+06 | 4.28E+05 | 9.40E+08 | 7.72E+07 | 1.09E+07 | 5.40E+09 | 5.90E+08 | 7.23E+07 |
| 21.5 | 2.18E+08 | 4.45E+06 | 3.18E+05 | 7.94E+08 | 6.45E+07 | 8.24E+06 | 4.44E+09 | 4.60E+08 | 6.22E+07 |
| 21.5 | 2.53E+08 | 4.43E+06 | 3.16E+05 | 8.57E+08 | 6.53E+07 | 1.00E+07 | 4.54E+09 | 5.40E+08 | 7.94E+07 |
| 21.5 | 3.39E+07 | 6.92E+05 | 4.94E+04 | 1.10E+08 | 7.93E+06 | 8.97E+05 | 5.23E+08 | 5.60E+07 | 7.59E+06 |
| 22.5 | 9.37E+07 | 1.90E+06 | 1.34E+05 | 3.51E+08 | 2.90E+07 | 3.16E+06 | 1.78E+09 | 1.81E+08 | 2.13E+07 |
| 22.5 | 1.06E+08 | 2.16E+06 | 1.55E+05 | 4.11E+08 | 2.89E+07 | 3.47E+06 | 1.94E+09 | 2.12E+08 | 2.54E+07 |
| 22.5 | 9.99E+07 | 2.04E+06 | 1.46E+05 | 3.81E+08 | 2.90E+07 | 3.32E+06 | 1.86E+09 | 1.97E+08 | 2.34E+07 |
| 23.5 | 7.11E+07 | 1.42E+06 | 9.56E+04 | 2.54E+08 | 2.26E+07 | 1.92E+06 | 1.43E+09 | 1.59E+08 | 1.81E+07 |
| 23.5 | 7.16E+07 | 1.46E+06 | 8.60E+04 | 2.54E+08 | 2.11E+07 | 1.67E+06 | 1.36E+09 | 1.47E+08 | 1.05E+07 |
| 23.5 | 6.15E+07 | 1.24E+06 | 7.73E+04 | 2.28E+08 | 1.93E+07 | 1.58E+06 | 1.19E+09 | 1.39E+08 | 1.59E+07 |
| 24.5 | 1.10E+07 | 2.41E+05 | 1.27E+04 | 4.37E+07 | 3.39E+06 | 3.16E+05 | 2.28E+08 | 3.34E+07 | 4.44E+06 |
| 24.5 | 1.00E+07 | 2.05E+05 | 1.21E+04 | 3.79E+07 | 2.97E+06 | 3.44E+05 | 2.09E+08 | 3.65E+07 | 4.54E+06 |
| 24.5 | 1.32E+07 | 2.64E+05 | 2.20E+04 | 4.51E+07 | 3.89E+06 | 3.01E+05 | 2.62E+08 | 3.27E+07 | 4.33E+06 |
| 26.5 | 1.21E+08 | 2.46E+06 | 1.73E+05 | 3.92E+08 | 2.99E+07 | 2.79E+06 | 2.01E+09 | 2.50E+07 | 3.25E+06 |
| 26.5 | 1.02E+08 | 2.08E+06 | 1.49E+05 | 3.62E+08 | 2.84E+07 | 2.69E+06 | 1.92E+09 | 2.39E+07 | 3.32E+06 |
| 26.5 | 1.99E+07 | 4.06E+05 | 2.90E+04 | 1.02E+08 | 3.31E+06 | 7.10E+05 | 4.23E+08 | 1.58E+07 | 4.47E+06 |
| 27.5 | 2.22E+07 | 4.53E+05 | 3.24E+04 | 1.22E+08 | 3.30E+06 | 7.89E+05 | 4.33E+08 | 1.65E+07 | 4.54E+06 |
| 27.5 | 1.99E+07 | 3.99E+05 | 2.68E+04 | 1.02E+08 | 3.31E+06 | 7.10E+05 | 4.33E+08 | 1.58E+07 | 4.47E+06 |
| 27.5 | 2.23E+07 | 4.55E+05 | 2.68E+04 | 1.25E+08 | 3.72E+06 | 9.14E+05 | 4.92E+08 | 1.87E+07 | 4.59E+06 |
| 27.5 | 2.45E+07 | 4.90E+05 | 4.08E+04 | 1.35E+08 | 4.09E+06 | 1.06E+06 | 5.06E+08 | 2.20E+07 | 6.93E+06 |
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|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **avg.** | **GDGT III** | **GDGT IIIa** | **GDGTIIIb** | **GDGTII** | **GDGTIIa** | **GDGTIIb** | **GDGI** | **GDGTIa** | **GDGTIb** |
| **Uncorrected Depth (cm)** | **m/z1050** | **m/z1048** | **m/z 1046** | **m/z 1036** | **m/z 1034** | **mz 1032** | **m/z 1022** | **m/z 1020** | **m/z 1018** |
| 28.5 | 4.17E+07 | 8.34E+05 | 6.95E+04 | 2.80E+08 | 7.82E+06 | 2.25E+06 | 1.14E+09 | 3.85E+07 | 1.29E+07 |
| 28.5 | 3.33E+07 | 6.53E+05 | 5.02E+04 | 2.15E+08 | 7.06E+06 | 1.77E+06 | 1.04E+09 | 2.76E+07 | 8.64E+06 |
| 28.5 | 3.22E+07 | 6.57E+05 | 4.69E+04 | 1.87E+08 | 6.44E+06 | 1.67E+06 | 9.97E+08 | 2.67E+07 | 9.11E+06 |
| 29.5 | 2.69E+07 | 4.71E+05 | 3.37E+04 | 1.81E+08 | 4.70E+06 | 1.55E+06 | 7.44E+08 | 2.71E+07 | 9.75E+06 |
| 29.5 | 3.10E+07 | 6.33E+05 | 4.52E+04 | 1.99E+08 | 5.55E+06 | 1.73E+06 | 8.11E+08 | 3.03E+07 | 9.20E+06 |
| 29.5 | 2.77E+07 | 5.63E+05 | 3.96E+04 | 1.72E+08 | 5.55E+06 | 1.34E+06 | 8.62E+08 | 2.33E+07 | 7.84E+06 |
| 30.5 | 3.75E+07 | 7.65E+05 | 5.47E+04 | 2.67E+08 | 9.16E+06 | 1.94E+06 | 1.32E+09 | 2.95E+07 | 9.78E+06 |
| 30.5 | 3.64E+07 | 7.43E+05 | 5.31E+04 | 2.50E+08 | 9.03E+06 | 2.30E+06 | 1.32E+09 | 3.49E+07 | 1.11E+07 |
| 30.5 | 4.26E+07 | 8.54E+05 | 5.73E+04 | 2.76E+08 | 1.10E+07 | 2.67E+06 | 1.52E+09 | 4.04E+07 | 1.48E+07 |
| 31.5 | 4.05E+07 | 8.27E+05 | 4.86E+04 | 2.28E+08 | 8.40E+06 | 1.87E+06 | 1.09E+09 | 3.27E+07 | 1.10E+07 |
| 31.5 | 9.60E+07 | 1.93E+06 | 1.21E+05 | 5.78E+08 | 2.04E+07 | 4.30E+06 | 2.40E+09 | 6.85E+07 | 2.91E+06 |
| 31.5 | 1.04E+08 | 2.28E+06 | 1.20E+05 | 6.08E+08 | 2.14E+07 | 5.26E+06 | 3.05E+09 | 8.67E+07 | 2.79E+06 |
| 32.5 | 3.92E+07 | 8.00E+05 | 5.71E+04 | 2.49E+08 | 9.35E+06 | 2.15E+06 | 1.46E+09 | 3.33E+07 | 1.07E+07 |
| 32.5 | 4.05E+07 | 8.23E+05 | 5.79E+04 | 2.62E+08 | 9.55E+06 | 2.26E+06 | 1.44E+09 | 3.60E+07 | 1.33E+07 |
| 32.5 | 3.87E+07 | 7.90E+05 | 5.64E+04 | 2.54E+08 | 9.14E+06 | 2.38E+06 | 1.31E+09 | 3.64E+07 | 1.11E+07 |
| 33.5 | 2.55E+07 | 5.20E+05 | 3.72E+04 | 1.51E+08 | 6.28E+06 | 1.35E+06 | 9.15E+08 | 2.43E+07 | 7.74E+06 |
| 33.5 | 2.67E+07 | 5.35E+05 | 3.59E+04 | 1.63E+08 | 5.77E+06 | 1.15E+06 | 8.00E+08 | 2.03E+07 | 7.10E+06 |
| 33.5 | 2.72E+07 | 5.55E+05 | 3.27E+04 | 1.61E+08 | 7.00E+06 | 1.44E+06 | 1.00E+09 | 2.63E+07 | 5.62E+06 |
| 33.5 | 8.78E+07 | 1.77E+06 | 1.10E+05 | 4.93E+08 | 1.90E+07 | 3.52E+06 | 2.61E+09 | 7.05E+07 | 2.70E+07 |
| 33.5 | 9.10E+07 | 2.00E+06 | 1.05E+05 | 5.09E+08 | 1.98E+07 | 4.51E+06 | 2.60E+09 | 8.15E+07 | 2.52E+07 |
| 34.5 | 2.25E+07 | 4.59E+05 | 2.70E+04 | 1.16E+08 | 5.16E+06 | 1.00E+06 | 5.50E+08 | 2.08E+07 | 5.43E+06 |
| 34.5 | 1.75E+07 | 3.50E+05 | 2.92E+04 | 8.40E+07 | 3.12E+06 | 6.61E+05 | 3.57E+08 | 1.71E+07 | 5.22E+06 |
| 34.5 | 2.06E+07 | 4.12E+05 | 3.43E+04 | 1.17E+08 | 5.17E+06 | 1.00E+06 | 7.00E+08 | 2.02E+07 | 6.03E+06 |
| 34.5 | 1.95E+07 | 3.82E+05 | 2.94E+04 | 1.13E+08 | 4.89E+06 | 7.96E+05 | 6.56E+08 | 1.70E+07 | 6.60E+06 |
| 35.5 | 1.08E+07 | 2.20E+05 | 1.57E+04 | 5.69E+07 | 2.02E+06 | 4.05E+05 | 2.28E+08 | 9.89E+06 | 3.89E+06 |
| 35.5 | 3.32E+07 | 6.74E+05 | 4.75E+04 | 1.81E+08 | 7.47E+06 | 1.23E+06 | 8.15E+08 | 3.28E+07 | 1.03E+07 |
| 35.5 | 3.40E+07 | 6.94E+05 | 4.96E+04 | 1.79E+08 | 7.68E+06 | 8.89E+05 | 8.09E+08 | 2.60E+07 | 1.03E+07 |
| 36.5 | 1.02E+07 | 2.08E+05 | 1.49E+04 | 5.97E+07 | 1.81E+06 | 2.73E+05 | 2.83E+08 | 8.39E+06 | 3.89E+06 |
| 36.5 | 1.18E+07 | 2.41E+05 | 1.42E+04 | 7.01E+07 | 2.04E+06 | 3.90E+05 | 3.27E+08 | 1.13E+07 | 4.73E+06 |
| 36.5 | 9.19E+06 | 1.84E+05 | 1.53E+04 | 5.22E+07 | 1.55E+06 | 3.25E+05 | 2.37E+08 | 8.56E+06 | 3.75E+06 |
| 37.5 | 6.20E+06 | 1.24E+05 | 1.03E+04 | 3.39E+07 | 1.06E+06 | 2.60E+05 | 1.71E+08 | 7.31E+06 | 3.92E+06 |
| 37.5 | 8.57E+06 | 1.68E+05 | 1.29E+04 | 4.69E+07 | 1.60E+06 | 3.31E+05 | 2.54E+08 | 8.92E+06 | 3.93E+06 |
| 37.5 | 8.30E+06 | 1.69E+05 | 1.21E+04 | 3.99E+07 | 1.57E+06 | 3.38E+05 | 2.25E+08 | 9.58E+06 | 3.89E+06 |
| 39.5 | 1.68E+07 | 2.94E+05 | 2.10E+04 | 8.78E+07 | 2.68E+06 | 4.51E+05 | 4.44E+08 | 1.59E+07 | 5.62E+06 |
| 39.5 | 1.78E+07 | 3.63E+05 | 2.59E+04 | 1.01E+08 | 3.83E+06 | 5.46E+05 | 5.78E+08 | 1.90E+07 | 6.27E+06 |
| 39.5 | 1.96E+07 | 3.98E+05 | 2.80E+04 | 9.97E+07 | 3.82E+06 | 7.54E+05 | 6.16E+08 | 2.10E+07 | 6.23E+06 |
| 40.5 | 1.33E+07 | 2.71E+05 | 1.94E+04 | 7.17E+07 | 2.64E+06 | 4.21E+05 | 3.72E+08 | 1.38E+07 | 4.26E+06 |
| 40.5 | 1.28E+07 | 2.61E+05 | 1.54E+04 | 7.41E+07 | 2.87E+06 | 4.98E+05 | 3.92E+08 | 1.59E+07 | 5.14E+06 |
| 40.5 | 1.41E+07 | 2.82E+05 | 2.35E+04 | 8.48E+07 | 2.55E+06 | 3.95E+05 | 3.98E+08 | 1.57E+07 | 5.85E+06 |
| 42.5 | 1.61E+07 | 3.22E+05 | 2.68E+04 | 8.73E+07 | 2.82E+06 | 3.17E+05 | 4.46E+08 | 1.71E+07 | 5.52E+06 |
| 42.5 | 1.59E+07 | 3.12E+05 | 2.40E+04 | 8.40E+07 | 3.31E+06 | 3.78E+05 | 4.81E+08 | 1.83E+07 | 4.70E+06 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **avg.** | **GDGT III** | **GDGT IIIa** | **GDGTIIIb** | **GDGTII** | **GDGTIIa** | **GDGTIIb** | **GDGI** | **GDGTIa** | **GDGTIb** |
| **Uncorrected Depth (cm)** | **m/z1050** | **m/z1048** | **m/z 1046** | **m/z 1036** | **m/z 1034** | **mz 1032** | **m/z 1022** | **m/z 1020** | **m/z 1018** |
| 42.5 | 1.56E+07 | 3.18E+05 | 2.27E+04 | 8.80E+07 | 2.97E+06 | 3.79E+05 | 4.55E+08 | 1.95E+07 | 5.91E+06 |
| 43.5 | 8.86E+06 | 1.55E+05 | 1.11E+04 | 4.85E+07 | 1.70E+06 | 1.13E+05 | 2.49E+08 | 8.54E+06 | 3.01E+06 |
| 43.5 | 9.27E+06 | 1.89E+05 | 1.35E+04 | 4.65E+07 | 1.69E+06 | 1.14E+05 | 2.37E+08 | 1.03E+07 | 2.69E+06 |
| 43.5 | 6.47E+06 | 1.31E+05 | 9.26E+03 | 4.98E+07 | 1.67E+06 | 1.93E+05 | 2.50E+08 | 9.56E+06 | 2.93E+06 |
| 44.5 | 1.34E+07 | 2.73E+05 | 1.95E+04 | 6.27E+07 | 2.51E+06 | 2.10E+05 | 4.13E+08 | 1.25E+07 | 4.22E+06 |
| 44.5 | 1.28E+07 | 2.60E+05 | 1.83E+04 | 6.27E+07 | 2.24E+06 | 1.56E+05 | 3.74E+08 | 1.55E+07 | 4.02E+06 |
| 44.5 | 1.41E+07 | 2.88E+05 | 2.06E+04 | 6.77E+07 | 2.92E+06 | 1.86E+05 | 4.01E+08 | 1.52E+07 | 4.54E+06 |
| 44.5 | 1.08E+07 | 2.20E+05 | 1.57E+04 | 5.39E+07 | 2.10E+06 | 8.83E+05 | 2.51E+08 | 1.26E+07 | 2.94E+06 |
| 45.5 | 1.83E+07 | 3.67E+05 | 2.46E+04 | 9.18E+07 | 3.63E+06 | 2.64E+05 | 4.97E+08 | 2.08E+07 | 5.53E+06 |
| 45.5 | 1.84E+07 | 3.74E+05 | 2.63E+04 | 8.94E+07 | 3.28E+06 | 3.55E+05 | 4.67E+08 | 1.77E+07 | 4.48E+06 |
| 45.5 | 1.84E+07 | 3.76E+05 | 2.68E+04 | 8.99E+07 | 3.33E+06 | 3.16E+05 | 4.76E+08 | 2.07E+07 | 5.67E+06 |