Datashare 53:

Stable-isotope chemostratigraphy as a tool to correlate complex Mississippian marine carbonate facies of the Anadarko shelf, Oklahoma and Kansas

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APPENDIX: RAW STABLE-ISOTOPE DATA FROM THE PAN AMERICAN 1 ALBERT SEVERIN CORE, NORTHERN OKLAHOMA

Sample Depth (ft)	Sample Depth (m)	δ^{13}C ‰ (VPDB)	δ^{13}O ‰ (VPDB)
5962.8	1817.4	2.3	−4.5
5964.6	1818	2.3	−5
5964.6	1818	2.3	−4.1
5967.4	1818.9	2.5	−4.1
5968.8	1819.3	2.5	−4.5
5970	1819.7	2.5	−3.9
5971.3	1820.1	2.5	−5
5972.5	1820.4	2.6	−3.8
5973.5	1820.7	2.6	−4.5
5974.5	1821	2.6	−4.7
5975.8	1821.4	2.6	−4.2
5977	1821.8	2.6	−4.6
5978	1822.1	2.6	−5.2
5980.3	1822.8	2.7	−5.1
5981.6	1823.2	2.7	−5
5982.6	1823.5	2.7	−4.6
5983.2	1823.7	2.7	−4.6
5985.8	1824.5	2.8	−4.6
5986.8	1824.8	2.7	−4.4
5988.3	1825.2	2.8	−4.4
5990.8	1826	2.7	−4.8
5992	1826.4	2.7	−4
5993.2	1826.7	2.8	−4.2
5994.4	1827.1	2.8	−4.3
5995.2	1827.3	2.7	−4.5
5996.3	1827.7	2.7	−4.5
5997.2	1827.9	2.8	−3.6
5998.3	1828.3	2.7	−5
6001	1829.1	2.8	−4.6
6003	1829.7	2.6	−4.4
6004.6	1830.2	2.6	−5.2
6007	1830.9	2.6	−4.1
6008.8	1831.5	2.7	−3.6
6009.6	1831.7	2.7	−4.5
6010.7	1832.1	2.4	−4.1
6012.3	1832.5	2.4	−4.5

Sample Depth (ft)	Sample Depth (m)	δ^{13}C ‰ (VPDB)	δ^{13}O ‰ (VPDB)
5904.5	1799.7	0	−3.3
5906	1800.1	0.1	−2.8
5909.5	1801.2	0.8	−4.3
5910.7	1801.6	0.7	−3.6
5913	1802.3	0.3	−3.3
5914.2	1802.6	0.2	−4
5916.5	1803.3	1.3	−2.6
5916.5	1803.3	1.3	−2.3
5918.2	1803.9	0.8	−4.3
5918.2	1803.9	0.9	−4.2
5920.5	1804.6	1.5	−3.3
5921.6	1804.9	1.2	−3.8
5921.6	1804.9	1.2	−3.7
5922.5	1805.2	1.5	−3.8
5924.3	1805.7	1.4	−4.2
5925.8	1806.2	0.9	−3.6
5930.3	1807.6	1.4	−3.2
5932.4	1808.2	1.2	−3.6
5932.4	1808.2	1.2	−3.3
5933.5	1808.5	0.9	−3.3
5934.6	1808.9	1	−2.3
5937.3	1809.7	0.9	−2.8
5941	1810.8	1.2	−2.5
5941.7	1811	1.2	−2.5
5943.8	1811.7	0.8	−4.4
5943.8	1811.7	0.8	−4.1
5945.3	1812.1	2.2	−3.9
5945.3	1812.1	2.2	−3.6
5948.3	1813	1.7	−4.2
5950.5	1813.7	2	−5.2
5952.4	1814.3	2.2	−5.7
5954.8	1815	2.2	−4.5
5956.3	1815.5	2.3	−4.9
5959.1	1816.3	2.6	−4.2
5960.1	1816.6	2.4	−3.8
5960.7	1816.8	2.3	−4.7

Sample Depth (ft)	Sample Depth (m)	δ^{13}C ‰ (VPDB)	δ^{13}O ‰ (VPDB)
6013.8	1833	2.7	−4.2
6014.8	1833.3	2.6	−3.5
6016.1	1833.7	2.7	−3.9
6017.3	1834.1	2.5	−4.2
6019.5	1834.7	2.2	−4.5
6021.8	1835.4	2.4	−4.3
6023	1835.8	2.2	−4.5
6024.1	1836.1	2.4	−4.2
6025.7	1836.6	2.3	−4.5
6028.3	1837.4	2.2	−4.5
6030.3	1838	2.3	−3.6
6031.5	1838.4	2.5	−3.9
6032.7	1838.8	2.2	−4
6033.7	1839.1	2.4	−4.2
6034.9	1839.4	2.1	−4.4
6036.2	1839.8	2.5	−5.1
6039.1	1840.7	2.5	−4.1
6041.5	1841.4	2.5	−4.2
6042.4	1841.7	2.4	−3.7
6044.7	1842.4	2.5	−5.6
6046.7	1843	2.3	−5.4
6048.2	1843.5	2.2	−4.3
6050.2	1844.1	2.3	−5
6051.1	1844.4	2.2	−4.6
6053.6	1845.1	2.1	−4.9
6054.8	1845.5	2.3	−4.7
6055.7	1845.8	2.2	−4.4
6058	1846.5	2.3	−4.8
6059.1	1846.8	2.4	−4.9
6061	1847.4	2.5	−4.7
6062	1847.7	2	−4.8
6063.9	1848.3	2.6	−4.5
6064.7	1848.5	2.4	−4.3
6069	1849.8	2.7	−4.5
6070	1850.1	2.3	−5.3
6071.3	1850.5	2.3	−5.6
6075.5	1851.8	2.5	−4.6
6076.9	1852.2	2.4	−4.7
6081.2	1853.5	2.4	−4.4
6082.9	1854.1	1.9	−4.1
6087	1855.3	1.9	−4.3
6088	1855.6	2.3	−4.2
6090	1856.2	1.9	−3.7
6094.5	1857.6	2.6	−2.1
6094.5	1857.6	2.7	−1.8
6097.4	1858.5	2	−4
6098.8	1858.9	1.4	−4.4
6101.1	1859.6	2.4	−3.5
6102.3	1860	2.3	−4.5
6103.4	1860.3	2.1	−5.3
6104.9	1860.8	2.4	−5.1
6106	1861.1	2.3	−4.8
6107	1861.4	2.3	−3.9
6109	1862	2.2	−4.8
6110.3	1862.4	1.9	−5
6112.7	1863.2	2.3	−4.7
6114	1863.5	2.3	−5
6114.9	1863.8	1.4	−5.3
6115.6	1864	2.4	−3.8
6117.4	1864.6	2.2	−5.4
6118.9	1865	1.9	−4.6
6120	1865.4	2.2	−4.4
6121	1865.7	1.9	−4.4
6121.3	1865.8	2.3	−4.3
6124.4	1866.7	2.2	−4.6
6125.8	1867.1	2.1	−4.2
6127.7	1867.7	1.8	−4
6128.7	1868	1.5	−3.5
6129.8	1868.4	1.9	−3.7
6131.3	1868.8	2.1	−4.2
6133	1869.3	2.2	−4.8
6133.9	1869.6	2.1	−5.3
6135.1	1870	2	−4.9
6137.1	1870.6	2	−4.8
6138.2	1870.9	2	−4.6
6139.1	1871.2	2.2	−2.9
6140.5	1871.6	2.3	−3.7
6142	1872.1	2.4	−4.2
6144	1872.7	2.5	−2.2
6145	1873	2.5	−3.4
6146.2	1873.4	2.3	−4.8
6147.6	1873.8	2.6	−2.3
6149.3	1874.3	2.5	−2.5
6150.3	1874.6	2.5	−3.6
6151	1874.8	2.5	−3.6
6153	1875.4	2.7	−3.5
6154.2	1875.8	2.6	−4.1
6156.1	1876.4	2.7	−4.3
6157.6	1876.8	2.7	−3.3
6158.3	1877	2.8	−4.3
6161	1877.9	2.8	−4.1
6162	1878.2	2.7	−4.7
6163.6	1878.7	2.6	−3.7
6165	1879.1	2.8	−4.3
6166	1879.4	2.8	−2.8
6169	1880.3	2.7	−3.6
6170.4	1880.7	2.6	−4.7
6172.4	1881.3	2.9	−2.4
6173.4	1881.7	2.5	−4.2
6174.6	1882	2.8	−3.8
6175.6	1882.3	2.6	−5
6178.8	1883.3	2.6	−4.4
6184.4	1885	2.5	−4.4
6185.6	1885.4	2.8	−2.2
6187.8	1886	2.3	−3.2
6188.7	1886.3	2.3	−4.1
6190.4	1886.8	2.1	−3.9
6190.4	1886.8	2.3	−3.6
6193.1	1887.7	2.1	−3.3
6194.8	1888.2	2.5	−4.2
6196	1888.5	3	−2.8
6196	1888.5	3.1	−2.8
6197.5	1889	2.5	−3.7
6200	1889.8	2.9	−2.4

Sample Depth (ft)	Sample Depth (m)	δ^{13}C ‰ (VPDB)	δ^{13}O ‰ (VPDB)
6202.4	1890.5	2.7	−2.8
6204	1891	2.9	−1.8
6204.6	1891.2	2.3	−3
6206.4	1891.7	2.5	−2.6
6208.3	1892.3	2.4	−4.3
6209.4	1892.6	2.6	−3.3
6211.4	1893.2	2.6	−2.4
6212	1893.4	2.5	−2.9
6212.4	1893.5	2.5	−2.5
6215.1	1894.4	2.5	−2.8
6216.3	1894.7	2.5	−2.9
6218.3	1895.3	2.4	−4.2
6219	1895.6	2	−3.2
6219	1895.6	2	−3.1
6221.5	1896.3	2.2	−2.7
6223.4	1896.9	2.2	−4.5
6225.3	1897.5	2.6	−2.6
6226.2	1897.7	2.6	−2.4
6228.3	1898.4	2.7	−2.4
6230.4	1899	2.8	−2.9
6231.5	1899.4	2.7	−2.8
6233.5	1900	2.6	−2.5
6234.7	1900.3	2.5	−2.5
6235.3	1900.5	2.3	−3.6
6237.5	1901.2	2.6	−2
6238.1	1901.4	2.5	−2.5
6239.8	1901.9	2.3	−3.2
6241	1902.3	2.2	−4.2
6242	1902.6	2.9	−1.9
6243.3	1903	2.8	−2.4
6246.3	1903.9	2.9	−2.5
6250	1905	2.8	−2.3
6251.6	1905.5	2.8	−3.3
6252.2	1905.7	2.7	−2.7
6253.9	1906.2	2.7	−2.8
6254.8	1906.5	2.7	−3.2
6255.8	1906.8	2.1	−5.1
6257	1907.1	2.8	−2.8
6258	1907.4	2.9	−2.3
6259	1907.7	2.6	−4
6261.5	1908.5	2.3	−4.1
6262.6	1908.8	2.5	−3.4
6262.8	1908.9	2.4	−5.2
6263.4	1909.1	2.6	−4.7
6265.3	1909.7	2.6	−4.1
6267.7	1910.4	2.5	−4.2
6268.7	1910.7	2.4	−4.4
6270.6	1911.3	2.5	−3.3
6271.6	1911.6	2.7	−2.7
6272.6	1911.9	2.3	−4.4
6273.5	1912.2	2.7	−2.1
6275.3	1912.7	2.6	−2.3
6276.4	1913	2.6	−2.5
6277.6	1913.4	2.5	−2.9
6278.5	1913.7	2.6	−3.8
6280.7	1914.4	2.4	−4
6282.2	1914.8	2.2	−3.4
6283.3	1915.1	2.1	−4.1
6284.4	1915.5	2.1	−5.5
6285.3	1915.8	2.1	−5
6286.8	1916.2	2	−5.8
6288.9	1916.9	2	−4.7
6289.9	1917.2	2	−6.4
6290.6	1917.4	2.2	−5.3
6291.8	1917.7	2	−7.3
6292.6	1918	2	−5.2
6293.8	1918.4	2.4	−3.2
6296.3	1919.1	2	−5.6
6297.3	1919.4	1.5	−6.4
6298.8	1919.9	2	−5.5
6300.4	1920.4	1.9	−4.8
6301.6	1920.7	2.2	−4.3
6303	1921.2	1.7	−5
6304.1	1921.5	1.8	−3.2
6305.5	1921.9	1.7	−3.5
6306.8	1922.3	1.7	−4.8
6308	1922.7	1.9	−4.7
6309	1923	1.8	−5.5
6311.2	1923.7	1.7	−3.9
6312.6	1924.1	1.9	−5.4
6313.7	1924.4	1.7	−3.2
6314.9	1924.8	1.8	−5.3
6317.3	1925.5	1.8	−3.6
6318.4	1925.8	1.8	−4
6319.4	1926.2	1.9	−3.6
6322.3	1927	2	−4.4
6324.6	1927.7	1.8	−4.8
6325.3	1928	1.9	−4.5
6326.4	1928.3	2.2	−3.7
6328.8	1929	2.1	−3
6330.1	1929.4	1.4	−3.6
6331.5	1929.8	1.7	−2.8
6332.9	1930.3	1.1	−3.9
6332.9	1930.3	1.2	−3.7
6335.1	1930.9	1.1	−3.8
6335.1	1930.9	1.2	−3.4
6337.9	1931.8	0.5	−4.5
6337.9	1931.8	0.6	−4.4
6339.5	1932.3	0.8	−4.2
6339.5	1932.3	0.9	−4.1
6341.8	1933	0.8	−3.3
6341.8	1933	0.8	−3.1
6344	1933.7	1.1	−3.9
6347	1934.6	1.5	−3.6
6348	1934.9	1.5	−4.7
6351.3	1935.9	1.4	−4.3
6352.9	1936.4	1.6	−2.8
6356.9	1937.6	1.6	−5.2
6358	1937.9	1.9	−3.9
6359.5	1938.4	1.7	−5.9
6361.8	1939.1	2	−4
6364.3	1939.8	2.1	−3.8
6367.7	1940.9	3.3	−1.4
6369	1941.3	3.1	−2.2

Sample Depth (ft)	Sample Depth (m)	δ^{13}C ‰ (VPDB)	δ^{13}O ‰ (VPDB)
6369.9	1941.5	2.6	−4
6374.1	1942.8	2.3	−4
6375.3	1943.2	2.5	−3.9
6377.5	1943.9	3.1	−3
6392	1948.3	3	−4
6393.2	1948.6	3.1	−4
6395.1	1949.2	3.3	−3
6397.1	1949.8	3.3	−3.5
6402.6	1951.5	3	−4
6403.3	1951.7	3.1	−4
6404.4	1952.1	2.9	−4.2
6405.9	1952.5	3	−5.1
6408.1	1953.2	2.9	−3.9
6409.3	1953.6	2.9	−5.3
6410.4	1953.9	2.4	−4.8
6411.4	1954.2	2.9	−3.3
6412.7	1954.6	2.5	−4.7
6414.5	1955.1	2.5	−4.2
6415.6	1955.5	2.4	−4.3
6416.6	1955.8	2.5	−3.9
6418.3	1956.3	2.4	−4.4
6419.5	1956.7	1.8	−3.2
6421.1	1957.2	2.2	−5.6
6422.1	1957.5	2.5	−4.3
6423.1	1957.8	2.3	−4.1
6426.1	1958.7	2	−3.8
6427.2	1959	0.3	−5.1
6428.9	1959.5	0.8	−4.5
6429.9	1959.8	0.4	−4.5
6431.1	1960.2	0.7	−5.1
6432.7	1960.7	0.8	−3.9
6433.7	1961	0.5	−2.8
6435	1961.4	−0.3	−4.5
6436.7	1961.9	−2.3	−3.3