## Microbialites
| AgeGeologic | Country | Continent | RockUnit | EvidenceTypes | EvidenceNotes | BroadSetting | AllDepoEnv | AgeMa | LatAppx | LongAppx | Sources | SourceDOI | Notes |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Paleoarchean | Australia | Australia | Dresser Fm., Warrawoona Gp., Pilbara Sgp. | stromatolite | domical, conical | marine | marine | 3481 | -21.1670 | 119.2500 | Schopf, 2006; Lepot, 2020; van Kranendonk et al., 2008; Hickman-Lewis et al., 2017; Baumgartner et al., 2019 | 10.1098/rstb.2006.1834.; 10.1016/j.earscirev.2020.103296; 10.1016/J.PRECAMRES.2008.07.003; 10.1144/SP448.11; 10.1130/G46365.1 | NaN |
| Paleoarchean | Australia | Australia | Dresser Fm., Warrawoona Gp., Pilbara Sgp. | stromatolite | fenestrae | terrestrial | hot spring, fluvial | 3481 | -21.1670 | 119.2500 | Djokic et al., 2017; Djokic et al., 2021; Djokic et al., 2024; Van Kranendonk et al., 2021 | 10.1038/ncomms15263; 10.1089/ast.2019.2072; 10.1016/j.chemgeo.2023.121865; 10.1089/ast.2019.2107 | NaN |
| Paleoarchean | Australia | Australia | Dresser Fm., Warrawoona Gp., Pilbara Sgp. | MISS, stromatolite | NaN | tidal | tidal | 3481 | -21.1670 | 119.2500 | Schopf, 2006; Noffke et al., 2013; Howard et al., 2024 | 10.1098/rstb.2006.1834.; 10.1089/ast.2013.1030; 10.1111/gbi.12601 | NaN |
| Paleoarchean | South Africa | Africa | Hooggenoeg Fm., Onverwacht Gp., Barberton Greenstone Belt | MISS | NaN | tidal | tidal | 3450 | -25.8700 | 31.0000 | Schopf, 2006; Hofmann, 2000; Walsh and Lowe, 1999; Hickman-Lewis et al., 2018, 2020; Wacey, 2009 | 10.1098/rstb.2006.1834.; 10.1007/978-3-662-04036-2\_34; 10.1130/0-8137-2329-9.115; 10.1016/j.precamres.2020.105689; 10.1007/978-1-4020-9389-0 | Includes Middle Marker Bed |
| Paleoarchean | Australia | Australia | Panorama Fm., Warrawoona Gp., Pilbara Sgp. | stromatolite | conical | tidal | littoral | 3440 | -21.1670 | 119.2500 | Schopf, 2006; Hofmann, 2000; DiMarco and Lowe, 1989 | 10.1098/rstb.2006.1834.; 10.1007/978-3-662-04036-2\_34; 10.1016/0037-0738(89)90083-3 | NaN |
| Paleoarchean | South Africa | Africa | Kromberg Fm., Onverwacht Gp., Swaziland Sgp. | stromatolite | NaN | marine | marine | 3416 | -25.9170 | 30.9170 | Hofmann, 2000; Grant et al., 1980; Shircliff, 2014 | 10.1007/978-3-662-04036-2\_34; NA; 10.31390/gradschool\_theses.1507 | NaN |
| Paleoarchean | South Africa | Africa | Buck Reef Chert, Kromberg Fm., Onverwacht Gp., Barberton Greenstone Belt | stromatolite, MISS | stratiform | marine | marine | 3416 | -25.8870 | 30.9140 | Schopf, 2006; Tice and Lowe, 2004; Tice, 2009; Davies et al., 2016; Wacey, 2009 | 10.1098/rstb.2006.1834.; 10.1038/nature02888; 10.1089/ast.2008.0330; 10.1016/j.earscirev.2016.01.005; 10.1007/978-1-4020-9389-0 | NaN |
| Paleoarchean | South Africa | Africa | Witkop Fm., Nondweni Gp. | stromatolite | domical | marine | marine | 3410 | -28.2450 | 30.8280 | Schopf, 2006; Hofmann, 2000; Wilson and Versfeld, 1994; Xie et al., 2012 | 10.1098/rstb.2006.1834.; 10.1007/978-3-662-04036-2\_34; 10.1016/0301-9268(94)90012-4; 10.1016/j.gr.2011.08.014 | NaN |
| Paleoarchean | Australia | Australia | Strelley Pool Fm., Pilbara Sgp. | stromatolite | conical | marine | marine | 3388 | -20.3300 | 119.4300 | Schopf, 2006; Lepot, 2020; Allwood et al., 2007 | 10.1098/rstb.2006.1834.; 10.1016/j.earscirev.2020.103296; 10.1016/j.precamres.2007.04.013 | NaN |
| Paleoarchean | Australia | Australia | Strelley Pool Fm., Pilbara Sgp. | stromatolite | NaN | tidal | tidal | 3388 | -20.3300 | 119.4300 | Duda et al., 2016; Van Kranendonk, 2007; Allwood et al., 2007 | 10.1371/journal.pone.0147629; 10.1016/S0166-2635(07)15072-6; 10.1016/j.precamres.2007.04.013 | NaN |
| Paleoarchean | South Africa | Africa | Footbridge Chert, Kromberg Fm., Barberton Greenstone Belt | biolaminate | NaN | marine | epeiric | 3334 | -28.5000 | 31.0000 | Hickman-Lewis et al., 2020 | 10.1016/j.precamres.2020.105689 | NaN |
| Paleoarchean | South Africa | Africa | Josefsdal Chert, Onverwacht Gp., Barberton Greenstone Belt | biolaminate | NaN | tidal | littoral | 3330 | -25.9650 | 31.0780 | Westall et al., 2006; Westall et al., 2011 | 10.1098/rstb.2006.1896; 10.1016/j.epsl.2011.08.029 | NaN |
| Paleoarchean | South Africa | Africa | Mendon Fm., Onverwacht Gp., Barberton Greenstone Belt | MISS | NaN | marine | marine | 3280 | -25.8700 | 31.0500 | Trower and Lowe, 2016 | 10.1016/j.precamres.2016.06.003 | evidence of MISS being transported from shallower water |
| Paleoarchean | South Africa | Africa | Sheba Fm., Fig Tree Gp., Barberton Greenstone Belt | stromatolite | columnar | marine | marine | 3245 | -25.8870 | 30.9140 | Wacey, 2009; Byerly et al., 1986; Schopf, 2006 | 10.1007/978-1-4020-9389-0\_16; 10.1038/319489a0; 10.1098/rstb.2006.1834. | NaN |
| Paleoarchean | South Africa | Africa | Moodies Gp., Swaziland Sgp., Barberton Greenstone Belt | MISS | NaN | terrestrial | fluvial | 3220 | -25.5000 | 31.0000 | Homann et al., 2018 | 10.1038/s41561-018-0190-9 | NaN |
| Paleoarchean | South Africa | Africa | Moodies Gp., Swaziland Sgp., Barberton Greenstone Belt | MISS | NaN | tidal | tidal | 3220 | -25.5000 | 31.0000 | Noffke et al., 2006; Homann et al., 2015; Heubeck, 2009 | 10.1130/G22246.1; 10.1016/j.precamres.2015.04.018; 10.1130/G30101A.1 | NaN |
| Paleoarchean | Australia | Australia | Dixon Island Formation, Clearviille Greenstone Belt | biolaminate | stratiform | marine | marine | 3200 | -20.6300 | 117.0520 | Schopf, 2006; Kiyokawa et al., 2006 | 10.1098/rstb.2006.1834.; 10.1130/B25748.1 | seafloor hydroothermal vent system |
| Mesoarchean | Canada | North America | Garnet Bay, Lumby Lake Greenstone Belt | stromatolite | NaN | marine | marine | 3000 | 49.0300 | -91.3200 | Jackson, 1985; Davis and Jackson, 1988 | NA; 10.1130/0016-7606(1988)100<0818:GOTLLG>2.3.CO;2 | unconfirmed biogenicity |
| Mesoarchean | India | Asia | Koira Gp., Iron Ore Gp. | stromatolite | NaN | marine | marine | 3000 | 22.1160 | 85.3730 | Hofmann, 2000; Alvi and Shaif, 2020; Grant et al., 1978 | 10.1007/978-3-662-04036-2\_34; 10.1080/24749508.2020.1720489; NA | NaN |
| Mesoarchean | India | Asia | Bonai-Keonjhar area, Iron Ore Gp. | stromatolite, oncolite | NaN | tidal | tidal | 3000 | 21.8000 | 85.1000 | Hofmann, 2000; Sharma and Shukla, 2004 | 10.1007/978-3-662-04036-2\_34; 10.54991/jop.2004.204 | NaN |
| Mesoarchean | Australia | Australia | Cattle Well Fm., De Grey Gp. | stromatolite | domical | tidal | tidal | 2988 | -20.5000 | 120.2000 | Schopf, 2006; Hickman and Van Kranendonk, 2012; Hickman, 2021 | 10.1098/rstb.2006.1834.; 10.18814/epiiugs/2012/v35i1/028; NA | Depositional environment not well constrained; Hickman (2021) suggests that it could be lagoonal, intertidal, or lacustrine |
| Mesoarchean | South Africa | Africa | Chobeni Fm., Nsuze Gp., Pongola Sgp. | stromatolite, oncolite | fenestrae | tidal | epeiric, tidal | 2985 | -28.2000 | 31.1000 | Schopf, 2006; Siahi et al., 2016; Bolhar et al., 2015 | 10.1098/rstb.2006.1834.; 10.1016/j.precamres.2016.03.004; 10.1016/j.gca.2015.02.026 | NaN |
| Mesoarchean | Canada | North America | Keeyask Metasediments, Eyapamikama Lake | stromatolite | domical | marine | marine | 2980 | 52.9000 | -90.9000 | Schopf, 2006; Hofmann, 2000; Arias et al., 1986 | 10.1098/rstb.2006.1834.; 10.1007/978-3-662-04036-2\_34; NA | NaN |
| Mesoarchean | South Africa | Africa | Brixton Fm., Witwatersrand Sgp. | MISS | NaN | marine | marine | 2950 | -26.8000 | 27.2000 | Noffke et al, 2006; Davies et al., 2016 | 10.1016/j.precamres.2006.01.003; 10.1016/j.earscirev.2016.01.005 | NaN |
| Mesoarchean | Canada | North America | Ball Assemblage, Red Lake Metasediments | stromatolite, MISS | domical | tidal | tidal | 2930 | 51.0000 | -93.9000 | Schopf, 2006; McIntyre and Fralick, 2017; Hofmann and Snyder, 1985 | 10.1098/rstb.2006.1834.; 10.1002/dep2.36; 10.1130/0016-7606(1985)96<842:ASFTHU>2.0.CO;2 | NaN |
| Mesoarchean | South Africa | Africa | Sinqueni Fm., Mozaan Gp., Pongola Sgp. | MISS | NaN | marine | marine | 2900 | -27.4900 | 31.0000 | Noffke et al., 2003; Davies et al., 2016 | 10.1130/G19704.1; 10.1016/j.earscirev.2016.01.005 | NaN |
| Mesoarchean | South Africa | Africa | Ntombe Fm., Pongola Sgp. | MISS | NaN | tidal | tidal | 2900 | -28.2500 | 31.3500 | Noffke et al, 2007; Davies et al., 2016 | 10.1016/j.gr.2006.10.004; 10.1016/j.earscirev.2016.01.005 | NaN |
| Mesoarchean | Canada | North America | Woman Lake Marble, Uchi Greenstone Belt, Superior Province | stromatolite | domical | marine | marine | 2850 | 47.4900 | -82.6400 | Schopf, 2006; Hofmann, 2000; Walter, 1983; Sharma and Shukla, 2004 | 10.1098/rstb.2006.1834.; 10.1007/978-3-662-04036-2\_34; NA; 10.54991/jop.2004.204 | NaN |
| Mesoarchean | Zimbabwe | Africa | Mushandike Limestone, Masvingo Greenstone Belt | stromatolite | domical | marine | epeiric | 2850 | -20.1000 | 30.6000 | Kamber et al., 2004; Hofmann, 2000; Schopf, 2006 | 10.1016/j.precamres.2004.03.006; 10.1007/978-3-662-04036-2\_34; 10.1098/rstb.2006.1834. | NaN |
| Mesoarchean | Canada | North America | Mosher Carbonate, Steeprock Greenstone Belt | stromatolite | columnar, domal, conical, fenestrae | tidal | littoral | 2800 | 48.8000 | -91.6500 | Sumner, 2000; Wilks and Nisbet, 1988; Sumner and Grotzinger, 2004 | 10.1007/978-3-662-04036-2\_33; 10.1139/e88-040; 10.1111/j.1365-3091.2004.00670.x | NaN |
| Neoarchean | Australia | Australia | Hardey Fm., Fortescue Gp., Mount Bruce Sgp. | stromatolite, oncolite | columnar | terrestrial | fluvial, lacustrine | 2759 | -21.0000 | 117.9000 | Rasmussen et al., 2009; Stüeken et al., 2017 | 10.1130/G25300A.1; 10.1111/gbi.12251 | NaN |
| Neoarchean | Canada | North America | Muskrat Dam Greenstone Belt | stromatolite | pseudocolumnar | marine | marine | 2750 | 53.4000 | -91.9000 | Schopf, 2006; Paterson and Lewis, 2022 | 10.1098/rstb.2006.1834.; NA | NaN |
| Neoarchean | Australia | Australia | Mopoke Mbr., Kylena Fm., Fortescue Gp., Mount Bruce Sgp. | stromatolite, MISS | columnar | terrestrial | lacustrine | 2730 | -22.0000 | 118.7500 | Flannery, 2013; Stüeken et al., 2017 | 10.26190/unsworks/16605; 10.1111/gbi.12251 | NaN |
| Neoarchean | Canada | North America | Selbaie Volcanic Sequence, Abitibi Greenstone Belt | stromatolite | NaN | tidal | tidal | 2730 | 49.8000 | -79.0000 | Hofmann, 2000; Piché and Jébrak, 2006; Taner, 2000 | 10.1007/978-3-662-04036-2\_34; 10.1139/e06-097; 10.2113/0090189 | NaN |
| Neoarchean | Canada | North America | Joutel Volcanic Complex | stromatolite | conical | marine | marine | 2725 | 49.8000 | -78.9000 | Schopf, 2006; Hofmann and Masson, 1994 | 10.1098/rstb.2006.1834.; 10.1130/0016-7606(1994)106<0424:ASFAGB>2.3.CO;2 | stromatolites are allochthonous, deposited deeper |
| Neoarchean | Canada | North America | Helen Iron Fm., Michipicoten Gp. | stromatolite | conical | marine | marine | 2725 | 48.0300 | -84.7500 | Schopf, 2006; Hofmann et al., 1991 | 10.1098/rstb.2006.1834.; 10.2113/gsecongeo.86.5.1023 | NaN |
| Neoarchean | Australia | Australia | Tumbiana Fm., Fortescue Gp., Mount Bruce Sgp. | stromatolite, MISS | NaN | terrestrial | fluvial, lacustrine | 2723 | -22.0000 | 118.7500 | Buick, 1992; Bolhar and Van Kranendonk, 2007; Awramik and Buchheim, 2009; Thomazo et al., 2009; Flannery, 2013; Coffey et al., 2013; Stüeken et al., 2017; Flannery and Walter, 2012 | 10.1126/science.11536492; 10.1016/j.precamres.2007.02.002; 10.1016/j.precamres.2009.07.005; 10.26190/unsworks/16605; 10.1016/j.precamres.2013.07.021; 10.1111/gbi.12251; 10.1080/08120099.2011.607849 | NaN |
| Neoarchean | Australia | Australia | Madinna Fm., Fortescue Gp., Mount Bruce Sgp. | stromatolite | columnar | terrestrial | lacustrine | 2715 | -22.0000 | 118.7500 | Flannery, 2013; Flannery et al., 2016 | 10.26190/unsworks/16605; 10.1016/j.precamres.2016.09.021 | NaN |
| Neoarchean | South Africa | Africa | Rietgat Fm., Platberg Gp., Ventersdorp Sgp. | stromatolite, MISS | domical | terrestrial | lacustrine | 2715 | -26.7690 | 26.3940 | Winter, 1963; Wilmeth et al., 2019; Wilmeth et al., 2022; Grobler and Emslie, 1976 | 10.10520/AJA10120750\_1540; 10.1016/j.precamres.2018.11.009; 10.1016/j.precamres.2018.11.009; 10.10520/AJA10120750\_2918 | NaN |
| Neoarchean | South Africa | Africa | Bothaville Fm., Pniel Sequence, Ventersdorf Sgp. | stromatolite | conical | terrestrial | fluvial | 2710 | -27.3000 | 26.6000 | Buck, 1980; Schopf, 2006; Almond and Pether, 2009 | 10.1016/0301-9268(80)90033-9; 10.1098/rstb.2006.1834.; NA | NaN |
| Neoarchean | South Africa | Africa | Omdraaivlei Fm., Sodium Gp., Ventersdorf Sgp. | stromatolite | NaN | terrestrial | lacustrine | 2710 | -30.0000 | 23.0000 | Grobler et al., 1989; Altermann and Lenhardt, 2012 | 10.1080/14400958908527950; 10.1016/j.precamres.2012.02.012 | NaN |
| Neoarchean | Australia | Australia | Jeerinah Fm., Fortescue Gp., Mount Bruce Sgp. | stromatolite | columnar, digitate | terrestrial | lacustrine | 2700 | -22.0000 | 118.7500 | Flannery, 2013; Kakegawa and Nanri, 2006 | 10.26190/unsworks/16605; 10.1016/j.precamres.2006.03.005 | NaN |
| Neoarchean | India | Asia | Joldhal Fm., Shimoga Belt, Chitradurga Gp., Dharwar Sgp. | stromatolite | NaN | tidal | tidal | 2700 | 14.9180 | 74.5630 | Schopf, 2006; Hofmann, 2000; Khelen et al., 2019, 2020; Sharma and Shukla, 2004 | 10.1098/rstb.2006.1834.; 10.1007/978-3-662-04036-2\_34; 10.1016/j.precamres.2019.04.020; 10.1016/j.gsf.2019.04.010; 10.54991/jop.2004.204 | NaN |
| Neoarchean | India | Asia | Vanivilas Fm., Chitradurga Gp., Dharwar Sgp. | stromatolite | NaN | tidal | tidal | 2700 | 14.1800 | 76.2520 | Schopf, 2006; Hofmann, 2000; Khelen et al., 2019, 2020; Sharma and Shukla, 2004; Srinivasan et al., 1989 | 10.1098/rstb.2006.1834.; 10.1007/978-3-662-04036-2\_34; 10.1016/j.precamres.2019.04.020; 10.1016/j.gsf.2019.04.010; 10.54991/jop.2004.204; 10.1016/0301-9268(89)90058-2 | NaN |
| Neoarchean | India | Asia | Deogiri Fm., Sandur Gp., Dharwar Sgp. | stromatolite | domical | tidal | tidal | 2700 | 15.0510 | 76.5050 | Schopf, 2006; Khelen et al., 2019, 2020 | 10.1098/rstb.2006.1834.; 10.1016/j.precamres.2019.04.020; 10.1016/j.gsf.2019.04.010 | NaN |
| Neoarchean | Zimbabwe | Africa | Huntsman Limestone, Westacre Fm., Bulawayan Sgp. | stromatolite | domical | marine | marine | 2700 | -19.7160 | 28.7990 | Schopf, 2006; Hofmann et al., 2023; Sumner, 2000; Sumner and Grotzinger, 2004; Walter, 1983; MacGregor, 1940; Cloud and Semikhatov, 1969; Schopf et al, 1971; Bond et al., 1973; Bickle et al., 1975; Martin et al., 1980 | 10.1098/rstb.2006.1834.; 10.1016/j.chemgeo.2023.121587; 10.1007/978-3-662-04036-2\_33; 10.1111/j.1365-3091.2004.00670.x; NA; NA; NA; NA; NA; 10.1016/0012-821X(75)90024-2; NA | NaN |
| Neoarchean | Zimbabwe | Africa | Manjeri Fm., Ngesi Gp., Bulawayan Sgp. | stromatolite | pseudocolumnar | tidal | tidal | 2700 | -20.4950 | 30.1090 | Schopf, 2006; Bickle et al., 1975; Martin et al., 1980; Sumner, 2000 | 10.1098/rstb.2006.1834.; 10.1016/0012-821X(75)90024-2; NA; 10.1007/978-3-662-04036-2\_33 | NaN |
| Neoarchean | Canada | North America | Back River Complex, Yellowknife Sgp. | stromatolite | stratiform | tidal | littoral | 2690 | 65.0000 | -108.0000 | Lambert, 1998; Hofmann, 2000; Schopf, 2006 | 10.1139/e97-115; 10.1007/978-3-662-04036-2\_34; 10.1098/rstb.2006.1834. | NaN |
| Neoarchean | Australia | Australia | Black Flag Gp., Kanowna area, Eastern Goldfields | stromatolite | conical | marine | marine | 2668 | -30.5070 | 121.2590 | Schopf, 2006; Grey, 1981 | 10.1098/rstb.2006.1834.; NA | NaN |
| Neoarchean | Canada | North America | Snofield Lake, Yellowknife Sgp. | stromatolite | NaN | marine | marine | 2650 | 67.3000 | -110.7500 | Schopf, 2006; Henderson, 1975; Walter, 1983; Lambert et al., 1990; Lambert, 1996, 1998 | 10.1098/rstb.2006.1834.; 10.1139/e75-144; NA; NA; NA; 10.1139/e97-115 | NaN |
| Neoarchean | USA | North America | Wildcat Hills Fm., Whalen Gp. | stromatolite | NaN | marine | marine | 2650 | 42.5000 | -104.6700 | Hofmann and Snyder, 1985; Sharma and Shukla, 2004; Bekker et al., 2003; Day et al, 1999 | 10.1130/0016-7606(1985)96<842:ASFTHU>2.0.CO;2; 10.54991/jop.2004.204; 10.1016/S0301-9268(02)00164-X; 10.3133/i2635 | NaN |
| Neoarchean | USA | North America | Rawhide Creek area, Whalen Gp. | stromatolite | NaN | marine | marine | 2650 | 42.5000 | -104.6700 | Hofmann and Snyder, 1985; Sharma and Shukla, 2004; Bekker et al., 2003; Day et al, 1999 | 10.1130/0016-7606(1985)96<842:ASFTHU>2.0.CO;2; 10.54991/jop.2004.204; 10.1016/S0301-9268(02)00164-X; 10.3133/i2635 | NaN |
| Neoarchean | Zimbabwe | Africa | Cheshire Fm., Ngesi Gp., Belingwe Greenstone Belt | stromatolite | columnar, stratiform | tidal | tidal | 2650 | -20.5000 | 30.0000 | Abell et al., 1985; Bickle et al., 1975; Martin et al., 1980; Sumner, 2000 | 10.1016/0301-9268(85)90094-4; 10.1016/0012-821X(75)90024-2; NA; 10.1007/978-3-662-04036-2\_33 | NaN |
| Neoarchean | South Africa | Africa | Boomplaas Fm., Schmidsdrif Subgp., Transvaal Sgp. | stromatolite, oncolite | columnar | tidal | tidal | 2642 | -24.0000 | 29.0000 | Schopf, 2006; Bertrand-Sarfati and Eriksson, 1977; Sumner and Beukes, 2006; Altermann and Nelson, 1998 | 10.1098/rstb.2006.1834.; 10.1016/S0037-0738(98)00034-7 | NaN |
| Neoarchean | South Africa | Africa | Vryburg Fm., Schmidsdrif Subgp., Transvaal Sgp. | stromatolite, oncolite | columnar | tidal | tidal | 2642 | -24.0000 | 29.0000 | Schopf, 2006; Bertrand-Sarfati and Eriksson, 1977; Sumner and Beukes, 2006; Altermann and Nelson, 1998 | 10.1098/rstb.2006.1834.; 10.1016/S0037-0738(98)00034-7 | NaN |
| Neoarchean | Canada | North America | Angikuni Lake Area, Hearne Domain | stromatolite | NaN | marine | marine | 2640 | 62.1500 | -99.8900 | Aspler et al., 1997, 1998, 1999; Hofmann, 2000 | NA; NA; NA; 10.1007/978-3-662-04036-2\_34 | unconfirmed biogenicity |
| Neoarchean | South Africa | Africa | Abel Erasmus Fm., Wolkberg Gp., Transvaal Sgp. | stromatolite | NaN | terrestrial | lacustrine | 2600 | -25.0000 | 28.5000 | Bosch et al., 1993; Eriksson et al., 2001 | 10.1016/S0037-0738(01)00075-6 | NaN |
| Neoarchean | South Africa | Africa | Nauga Fm., Campbellrand Sbgp., Ghaap Gp., Transvaal Sgp. | stromatolite | NaN | marine | marine | 2560 | -29.0000 | 23.0000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Campbellrand and Malmani Sbgps. |
| Neoarchean | South Africa | Africa | Reivilo Fm., Campbellrand Sbgp., Ghaap Gp., Transvaal Sgp. | stromatolite, MISS | NaN | tidal | tidal, marine | 2555 | -29.0000 | 23.0000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Malmani Sbgp |
| Neoarchean | South Africa | Africa | Reivilo Fm., Campbellrand Sbgp., Ghaap Gp., Transvaal Sgp. | stromatolite, MISS | NaN | marine | tidal, marine | 2555 | -29.0000 | 23.0000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Malmani Sbgp |
| Neoarchean | South Africa | Africa | Monteville Fm., Campbellrand Sbgp., Ghaap Gp., Transvaal Sgp. | stromatolite | NaN | marine | marine | 2555 | -29.0000 | 23.0000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Malmani Sbgp |
| Neoarchean | South Africa | Africa | Monte Christo Fm., Malmani Sbgp., Chuniespoort Gp., Transvaal Sgp. | stromatolite, MISS | NaN | tidal | tidal, marine | 2550 | -24.5000 | 30.5000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Campbellrand Sbgp. |
| Neoarchean | South Africa | Africa | Monte Christo Fm., Malmani Sbgp., Chuniespoort Gp., Transvaal Sgp. | stromatolite, MISS | NaN | marine | tidal, marine | 2550 | -24.5000 | 30.5000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Campbellrand Sbgp. |
| Neoarchean | South Africa | Africa | Oaktree Fm., Malmani Sbgp., Chuniespoort Gp., Transvaal Sgp. | stromatolite | NaN | marine | marine | 2550 | -24.5000 | 30.5000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Campbellrand Sbgp. |
| Neoarchean | Australia | Australia | Carawine Dolomite, Hamersley Gp., Mount Bruce Sgp. | stromatolite | NaN | marine | marine | 2548 | -21.0000 | 120.9000 | Schopf, 2006; Walter, 1983 | 10.1098/rstb.2006.1834.; NA | NaN |
| Neoarchean | South Africa | Africa | Gamohaan Fm., Campbellrand Sbgp., Ghaap Gp., Transvaal Sgp. | stromatolite | fenestrae | marine | marine | 2516 | -29.0000 | 23.0000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Malmani Sbgp |
| Neoarchean | South Africa | Africa | Kogelbeen Fm., Campbellrand Sbgp., Ghaap Gp., Transvaal Sgp. | stromatolite, MISS | NaN | tidal | tidal, lagoon | 2516 | -29.0000 | 23.0000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Malmani Sbgp |
| Neoarchean | South Africa | Africa | Klippan Fm., Campbellrand Sbgp., Ghaap Gp., Transvaal Sgp. | stromatolite, MISS | NaN | tidal | tidal, lagoon | 2516 | -29.0000 | 23.0000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Malmani Sbgp |
| Neoarchean | South Africa | Africa | Papkuil Fm., Campbellrand Sbgp., Ghaap Gp., Transvaal Sgp. | stromatolite, MISS | NaN | tidal | tidal, lagoon | 2516 | -29.0000 | 23.0000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Malmani Sbgp |
| Neoarchean | South Africa | Africa | Klipfonteinhuewel Fm., Campbellrand Sbgp., Ghaap Gp., Transvaal Sgp. | stromatolite, MISS | NaN | tidal | tidal, lagoon | 2516 | -29.0000 | 23.0000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Malmani Sbgp |
| Neoarchean | South Africa | Africa | Fairfield Fm., Campbellrand Sbgp., Ghaap Gp., Transvaal Sgp. | stromatolite, MISS | NaN | tidal | tidal, marine | 2516 | -29.0000 | 23.0000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Malmani Sbgp |
| Neoarchean | South Africa | Africa | Fairfield Fm., Campbellrand Sbgp., Ghaap Gp., Transvaal Sgp. | stromatolite, MISS | NaN | marine | tidal, marine | 2516 | -29.0000 | 23.0000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Malmani Sbgp |
| Neoarchean | South Africa | Africa | Frisco Fm., Malmani Sbgp., Chuniespoort Gp., Transvaal Sgp. | stromatolite | fenestrae | marine | marine | 2516 | -24.5000 | 30.5000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Campbellrand Sbgp. |
| Neoarchean | South Africa | Africa | Eccles Fm., Malmani Sbgp., Chuniespoort Gp., Transvaal Sgp. | stromatolite, MISS | NaN | tidal | tidal, lagoon, marine | 2516 | -24.5000 | 30.5000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Campbellrand Sbgp. |
| Neoarchean | South Africa | Africa | Eccles Fm., Malmani Sbgp., Chuniespoort Gp., Transvaal Sgp. | stromatolite, MISS | NaN | marine | tidal, lagoon, marine | 2516 | -24.5000 | 30.5000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Campbellrand Sbgp. |
| Neoarchean | South Africa | Africa | Lyttelton Fm., Malmani Sbgp., Chuniespoort Gp., Transvaal Sgp. | stromatolite, MISS | NaN | marine | tidal, marine | 2516 | -24.5000 | 30.5000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Campbellrand Sbgp. |
| Neoarchean | South Africa | Africa | Lyttelton Fm., Malmani Sbgp., Chuniespoort Gp., Transvaal Sgp. | stromatolite, MISS | NaN | tidal | tidal, marine | 2516 | -24.5000 | 30.5000 | Sumner, 2000; Sumner and Beukes, 2006; Eriksson and Altermann, 1998 | 10.1007/978-3-662-04036-2\_33; 10.2113/gssajg.109.1-2.11; 10.1007/s002540050334 | Correlates with Campbellrand Sbgp. |
| Neoarchean | Botswana | Africa | Ramonnendi Fm., Taupone Gp., Transvaal Sgp. | stromatolite | NaN | tidal | tidal, lagoon | 2500 | -25.0995 | 25.3301 | Franchi, 2018 | 10.1016/j.precamres.2018.02.018 | NaN |
| Paleoproterozoic | South Africa | Africa | Griquatown Fm. | stromatolite, MISS | roll-ups and chips | marine | marine | 2464 | -27.2400 | 22.9900 | Heard et al., 2022 | 10.1016/j.epsl.2022.117416 | NaN |
| Paleoproterozoic | South Africa | Africa | Duitschland Fm., Pretoria Gp., Transvaal Sgp. | stromatolite | NaN | marine | marine, lacustrine | 2430 | -24.2000 | 29.5000 | Bekker et al., 2001; Warke and Schröder, 2018 | 10.2475/ajs.301.3.261; 10.1016/j.precamres.2018.03.001 | depositional environment uncertain; lacustrine or marine |
| Paleoproterozoic | South Africa | Africa | Duitschland Fm., Pretoria Gp., Transvaal Sgp. | stromatolite | NaN | terrestrial | marine, lacustrine | 2430 | -24.2000 | 29.5000 | Bekker et al., 2001; Warke and Schröder, 2018 | 10.2475/ajs.301.3.261; 10.1016/j.precamres.2018.03.001 | depositional environment uncertain; lacustrine or marine |
| Paleoproterozoic | Brazil | South America | Gandarela Fm., Itabira Sbgp., Minas Sgp. | stromatolite, oncolite | NaN | tidal | tidal | 2420 | -20.0000 | -44.0000 | Bekker et al., 2003; Dardenne and Campos Neto, 1975 (in Portuguese) | 10.2475/ajs.303.10.865 | NaN |
| Paleoproterozoic | Australia | Australia | Kungarra Fm., Turee Creek Gp. | stromatolite | NaN | marine | subtidal | 2400 | -22.8300 | 116.6000 | Martindale et al., 2015; Martin et al., 2000 | 10.1016/j.precamres.2015.05.021; 10.1016/S0301-9268(99)00053-4 | NaN |
| Paleoproterozoic | Botswana, South Africa | Africa | Rooihoogte Fm., Pretoria Gp., Transvaal Sgp. | stromatolite | NaN | tidal | tidal, lacustrine | 2400 | -26.7000 | 27.0000 | Coetzee, 2001; Catuneanu and Eriksson, 2002 | 10.1016/S0037-0738(01)00188-9 | depositional environment uncertain, tidal/shallow marine or possibly lacustrine |
| Paleoproterozoic | Botswana, South Africa | Africa | Rooihoogte Fm., Pretoria Gp., Transvaal Sgp. | stromatolite | NaN | tidal | tidal, lacustrine | 2400 | -26.7000 | 27.0000 | Coetzee, 2001; Catuneanu and Eriksson, 2002 | 10.1016/S0037-0738(01)00188-9 | depositional environment uncertain, tidal/shallow marine or possibly lacustrine |
| Paleoproterozoic | Russia | Europe | Kozhozero Fm., Vetreny Belt | stromatolite | NaN | marine | marine | 2400 | 63.0000 | 37.0000 | Melezhik et al., 1997; Mezhelovskaya et al., 2016 | 10.1134/S0869593816020040; 10.1134/S0869593816020040 | depositional setting not certain |
| Paleoproterozoic | Australia | Australia | Kazput Fm., Turee Creek Gp. | stromatolite, thrombolite, oncolite | NaN | marine | marine, tidal | 2350 | -22.6000 | 117.5000 | Barlow et al., 2016; Martindale et al., 2015; Martin et al., 2000 | 10.1111/gbi.12175; 10.1016/j.precamres.2015.05.021; 10.1016/S0301-9268(99)00053-4 | NaN |
| Paleoproterozoic | Australia | Australia | Kazput Fm., Turee Creek Gp. | stromatolite, thrombolite, oncolite | NaN | tidal | marine, tidal | 2350 | -22.6000 | 117.5000 | Barlow et al., 2016; Martindale et al., 2015; Martin et al., 2000 | 10.1111/gbi.12175; 10.1016/j.precamres.2015.05.021; 10.1016/S0301-9268(99)00053-4 | NaN |
| Paleoproterozoic | Canada | North America | Espanola Fm., Quirke Lake Gp., Huronian Sgp. | stromatolite | NaN | marine | marine, tidal | 2300 | 46.4920 | -82.5970 | Hofmann et al., 1980; Bernstein and Young, 1990; Al-Hashim, 2016 | 10.1139/e80-142; 10.1139/e90-051 | past studies suggested possible lacustrine origin |
| Paleoproterozoic | Canada | North America | Espanola Fm., Quirke Lake Gp., Huronian Sgp. | stromatolite | NaN | tidal | marine, tidal | 2300 | 46.4920 | -82.5970 | Hofmann et al., 1980; Bernstein and Young, 1990; Al-Hashim, 2016 | 10.1139/e80-142; 10.1139/e90-051 | past studies suggested possible lacustrine origin |
| Paleoproterozoic | South Africa | Africa | Timeball Hill Fm., Pretoria Gp. | stromatolite | NaN | marine | marine | 2300 | -25.7500 | 26.7500 | Eriksson and Reczko, 1998 | 10.1016/S0037-0738(98)00038-4 | NaN |
| Paleoproterozoic | USA | North America | Kona Dolomite, Chocolay Gp., Marquette Range Sgp. | stromatolite | NaN | marine | marine, tidal | 2250 | 46.5010 | -87.3800 | Taylor, 1972; Bekker et al., 2006 | 10.1016/j.precamres.2006.03.008 | NaN |
| Paleoproterozoic | USA | North America | Kona Dolomite, Chocolay Gp., Marquette Range Sgp. | stromatolite | NaN | tidal | marine, tidal, lagoon | 2250 | 46.5010 | -87.3800 | Taylor, 1972; Bekker et al., 2006 | 10.1016/j.precamres.2006.03.008 | NaN |
| Paleoproterozoic | Canada | North America | Gordon Lake Fm., Flack Lake Gp., Huronian Sgp. | MISS | NaN | tidal | tidal, lagoon | 2220 | 46.6500 | -82.6600 | Hill et al., 2016; Hofmann et al., 1980 | 10.1016/j.precamres.2016.05.010; 10.1139/e80-142 | NaN |
| Paleoproterozoic | Canada | North America | Bar River Fm., Flack Lake Gp., Huronian Sgp. | MISS | NaN | tidal | tidal, lagoon | 2220 | 46.6500 | -82.6600 | Hill et al., 2016 | 10.1016/j.precamres.2016.05.010 | NaN |
| Paleoproterozoic | India | Asia | Chaibasa Fm., Singhbhum Gp. | MISS | ripples, stromatolite chips | marine | marine | 2200 | 22.5000 | 86.5000 | Eriksson et al., 2004; De et al., 2016; van Loon et al., 2016; van Loon and Mazumder, 2013 | 10.1016/S0166-2635(04)80009-4; 10.1016/j.earscirev.2016.10.001; 10.1016/j.jop.2016.08.003; 10.2478/logos-2013-0011 | NaN |
| Paleoproterozoic | South Africa | Africa | Silverton Fm., Pretoria Gp., Transvaal Sgp. | stromatolite | NaN | marine | marine | 2200 | -25.7500 | 26.7500 | Schreiber, 1990; Button, 1973 | NaN | NaN |
| Paleoproterozoic | South Africa | Africa | Lucknow Fm., Postmasburg Gp., Transvaal Sgp. | stromatolite | NaN | tidal | lagoon | 2200 | -22.5000 | 28.0000 | Schröder et al., 2009 | 10.1111/j.1365-3121.2008.00795.x | NaN |
| Paleoproterozoic | USA | North America | Randville Dolomite, Chocolay Gp., Marquette Range Sgp. | stromatolite | NaN | marine | marine | 2200 | 45.8240 | -88.0540 | Larue, 1981; Bekker et al., 2006 | 10.1130/0016-7606(1981)92<417:TCGLSR>2.0.CO;2; 10.1016/j.precamres.2006.03.008 | NaN |
| Paleoproterozoic | USA | North America | Bad River Dolomite, Chocolay Gp., Marquette Range Sgp. | stromatolite | NaN | marine | marine | 2200 | 46.4840 | -89.9280 | Bekker et al., 2006 | 10.1016/j.precamres.2006.03.008 | NaN |
| Paleoproterozoic | USA | North America | Saunders Fm., Chocolay Gp. | stromatolite | NaN | marine | marine | 2200 | 46.0100 | -88.5400 | Bekker et al., 2006 | 10.1016/j.precamres.2006.03.008 | presumed marine due to correlation with Randville and Bad River dolomites |
| Paleoproterozoic | Russia | Asia | Butun Fm., Chinei Gp., Udokan Sgp. | stromatolite | NaN | tidal | tidal | 2180 | 58.0000 | 120.0000 | Semikhatov et al., 1999; Zientek et al., 2014 | 10.3133/sir20105090M | NaN |
| Paleoproterozoic | Australia | Australia | Juderina Fm., Windplain Gp. | stromatolite | includes brecciated clasts | marine | marine | 2173 | -26.4900 | 120.0900 | Grey, 1994; El Tabakh et al., 1999 | 10.1080/03115519408619500; 10.1130/0091-7613(1999)027<0871:PAEMIW>2.3.CO;2 | NaN |
| Paleoproterozoic | China | Asia | Dashiqiao Fm., North Liaohe Gp. | stromatolite | NaN | tidal | tidal, lagoon, sabkha | 2173 | 41.0000 | 123.0000 | Zhu, 1982; Zhu and Chen, 1992; Semikhatov et al., 1999; Semikhatov and Raaben, 1994; Cai et al., 2022; Tang et al., 2013 | 10.1016/0301-9268(82)90009-2; 10.1016/0301-9268(92)90097-8; 10.1016/j.precamres.2021.106466; 10.1002/gj.2486 | NaN |
| Paleoproterozoic | Canada | North America | Gaschet Fm., Peribonca Gp., Otish Sgp. | stromatolite | NaN | tidal | tidal, lagoon | 2170 | 53.3830 | -70.4500 | Genest, 1989 (in French) | NaN | NaN |
| Paleoproterozoic | Finland | Europe | Petäjäskoski Fm., Kivalo Gp., Peräpohja Belt | stromatolite | NaN | tidal | tidal, lagoon | 2140 | 65.8000 | 25.0000 | Farid, 2022 | NaN | NaN |
| Paleoproterozoic | Brazil | South America | Fecho do Funil Fm. | stromatolite | NaN | tidal | tidal | 2110 | -20.5000 | -44.0000 | Bekker et al., 2003; Dardenne and Campos Neto, 1975 | 10.2475/ajs.303.10.865 | NaN |
| Paleoproterozoic | China | Asia | Guanmenshan Fm., Fanhe Gp. | stromatolite | NaN | marine | marine | 2100 | 42.0000 | 124.0000 | Tang et al., 2011; Cai et al., 2022; Tang et al., 2013 | 10.1016/j.gr.2010.07.002; 10.1016/j.precamres.2021.106466; 10.1016/j.precamres.2012.02.005 | referred to as a part of the Liaohe Gp. In Tang et al., 2011; 2013 |
| Paleoproterozoic | Finland | Europe | Erivaansuaro Fm., Kuusamo Belt | stromatolite | NaN | tidal | tidal | 2100 | 66.0000 | 28.5000 | Laajoki, 2005 | NaN | NaN |
| Paleoproterozoic | Gabon | Africa | Francevillian B Fm., Franceville Gp. | stromatolite | NaN | marine | marine | 2100 | -1.5000 | 13.2500 | Préat et al., 2011; Amard and Bertrand-Sarfati, 1997 | 10.1016/j.precamres.2011.05.013; 10.1016/S0301-9268(96)00035-6 | NaN |
| Paleoproterozoic | Gabon | Africa | Francevillian C Fm., Franceville Gp. | stromatolite, oncolite | NaN | tidal | tidal, sabkha | 2100 | -1.3000 | 13.5000 | Préat et al., 2011; Amard and Bertrand-Sarfati, 1997 | 10.1016/j.precamres.2011.05.013; 10.1016/S0301-9268(96)00035-6 | NaN |
| Paleoproterozoic | India | Asia | Jhamarkotra Fm., Aravalli Gp. | stromatolite | NaN | marine | epeiric, tidal | 2100 | 24.6000 | 73.7500 | Roy and Paliwal, 1981; Maheshwari et al., 2010; Chauhan, 1979 | 10.1016/0301-9268(81)90035-8; 10.1016/j.precamres.2010.06.017; 10.1016/0301-9268(79)90040-8 | NaN |
| Paleoproterozoic | India | Asia | Jhamarkotra Fm., Aravalli Gp. | stromatolite | NaN | tidal | epeiric, tidal | 2100 | 24.6000 | 73.7500 | Roy and Paliwal, 1981; Maheshwari et al., 2010; Chauhan, 1979 | 10.1016/0301-9268(81)90035-8; 10.1016/j.precamres.2010.06.017; 10.1016/0301-9268(79)90040-8 | NaN |
| Paleoproterozoic | South Africa | Africa | Vermont Fm., Pretoria Gp., Transvaal Sgp. | stromatolite | NaN | tidal | tidal | 2100 | -25.7500 | 26.7500 | Schreiber, 1990; Button, 1973 | NaN | NaN |
| Paleoproterozoic | South Africa | Africa | Nederhorst Fm., Pretoria Gp., Transvaal Sgp. | stromatolite | NaN | tidal | tidal | 2100 | -25.7500 | 26.7500 | Schreiber, 1990; Button, 1973 | NaN | NaN |
| Paleoproterozoic | South Africa | Africa | Magaliesberg Fm., Pretoria Gp., Transvaal Sgp. | MISS | wrinkle structures, ripples, petee ridges | marine | marine, tidal | 2100 | -25.5000 | 29.0000 | Eriksson et al., 2010 | 10.1007/978-90-481-3799-2\_5 | NaN |
| Paleoproterozoic | South Africa | Africa | Magaliesberg Fm., Pretoria Gp., Transvaal Sgp. | MISS | wrinkle structures, ripples, petee ridges | tidal | marine, tidal | 2100 | -25.5000 | 29.0000 | Eriksson et al., 2010 | 10.1007/978-90-481-3799-2\_5 | NaN |
| Paleoproterozoic | Sweden | Europe | Lower Fm., Middle Gp., Kalix Greenstone Belt | stromatolite | NaN | tidal | tidal, sabkha | 2100 | 65.8000 | 22.6000 | McLoughlin et al., 2013; Wanke and Melezhik, 2005 | 10.1016/j.precamres.2005.05.003 | McLoughlin et al. (2013) in Melezhik et al. (2013; Volume 3) |
| Paleoproterozoic | Sweden | Europe | Upper Fm., Middle Gp., Kalix Greenstone Belt | stromatolite | NaN | tidal | tidal, sabkha | 2100 | 65.8000 | 22.6000 | McLoughlin et al., 2013; Wanke and Melezhik, 2005 | 10.1016/j.precamres.2005.05.003 | NaN |
| Paleoproterozoic | USA | North America | Nash Fork Fm., Snowy Pass Sgp. | stromatolite, MISS | rip-up chips | marine | marine, tidal | 2100 | 41.3500 | -106.2600 | Bekker and Eriksson, 2003 | 10.1016/S0301-9268(02)00165-1 | NaN |
| Paleoproterozoic | USA | North America | Nash Fork Fm., Snowy Pass Sgp. | stromatolite, MISS, oncolite | rip-up chips | tidal | tidal, marine | 2100 | 41.3500 | -106.2600 | Bekker and Eriksson, 2003 | 10.1016/S0301-9268(02)00165-1 | NaN |
| Paleoproterozoic | China | Asia | Dashiling Fm., Doucun Sbgp., Hutuo Gp. | stromatolite | NaN | tidal | tidal | 2090 | 38.6500 | 113.1100 | She et al., 2016; Zhu and Chen, 1992 | 10.1007/s12583-015-0654-4; 10.1016/0301-9268(92)90097-8 | NaN |
| Paleoproterozoic | China | Asia | Qingshicun Fm., Doucun Sbgp., Hutuo Gp. | stromatolite | NaN | tidal | tidal | 2090 | 38.6500 | 113.1100 | She et al., 2016; Zhu and Chen, 1992 | 10.1007/s12583-015-0654-4; 10.1016/0301-9268(92)90097-8 | NaN |
| Paleoproterozoic | Finland | Europe | Rantamaa Fm., Kivalo Gp., Peräpohja Belt | stromatolite | NaN | tidal | tidal | 2090 | 66.0000 | 24.8000 | Melezhik et al., 2013; Karhu, 1993 | NaN | NaN |
| Paleoproterozoic | Finland | Europe | Kvartsimaa Fm., Kivalo Gp., Peräpohja Belt | stromatolite | NaN | tidal | tidal | 2090 | 66.0000 | 24.0000 | Karhu, 1993; Farid, 2022 | NaN | NaN |
| Paleoproterozoic | Russia | Europe | Tulomozero Fm., Jatulian Gp. | stromatolite, oncolite | NaN | tidal | lagoon, intertidal, terrestrial | 2090 | 62.9390 | 34.3450 | Melezhik et al., 2000; Medvedev et al., 2005; Lepland et al., 2013 | 10.1080/002919600433724 | Lepland et al. (2013) in Melezhik et al. (2013; Volume 3) |
| Paleoproterozoic | Russia | Europe | Tulomozero Fm., Jatulian Gp. | stromatolite, oncolite | NaN | terrestrial | playa lake, sabkha, fluvial, pond | 2090 | 62.9390 | 34.3450 | Melezhik et al., 2000; Medvedev et al., 2005; Lepland et al., 2013 | 10.1080/002919600433724 | Lepland et al. (2013) in Melezhik et al. (2013; Volume 3) |
| Paleoproterozoic | Russia | Europe | Tulomozero Fm., Jatulian Gp. | stromatolite, oncolite | NaN | marine | playa lake, sabkha, fluvial, pond | 2090 | 62.9390 | 34.3450 | Melezhik et al., 2000; Medvedev et al., 2005; Lepland et al., 2013 | 10.1080/002919600433724 | Lepland et al. (2013) in Melezhik et al. (2013; Volume 3) |
| Paleoproterozoic | Russia | Europe | Kuetsjärvi Sedimentary Fm., Pechenga Greenstone Belt | stromatolite | NaN | terrestrial | lacustrine | 2060 | 68.0000 | 30.0000 | McLoughlin et al., 2013; Melezhik and Fallick, 2004 | 10.1017/S0263593300001140 | McLoughlin et al. (2013) in Melezhik et al. (2013; Volume 3) |
| Paleoproterozoic | Russia | Europe | Il'mozero Sedimentary Fm., Varzuga Belt | stromatolite | NaN | marine | marine | 2052 | 67.1130 | 35.6900 | Melezhik et al., 1997; Melezhik, 2013 | NaN | NaN |
| Paleoproterozoic | South Africa | Africa | Houtenbek Fm., Pretoria Gp., Transvaal Sgp. | stromatolite | NaN | tidal | tidal | 2050 | -25.7500 | 26.7500 | Schreiber, 1990; Button, 1973 | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Wooly Fm. | stromatolite | NaN | tidal | tidal, marine | 2031 | -22.2401 | 116.2952 | Krapež et al., 2015; Lindsay and Brasier, 2002; Australian Stratigraphic Units Database | 10.1016/j.precamres.2015.09.022; 10.1016/S0301-9268(01)00219-4 | NaN |
| Paleoproterozoic | China | Asia | Wenshan Fm., Dongye Sbgp., Hutuo Gp. | stromatolite | NaN | tidal | tidal | 2030 | 38.6500 | 113.1100 | She et al., 2016; Zhu and Chen, 1992 | 10.1007/s12583-015-0654-4; 10.1016/0301-9268(92)90097-8 | NaN |
| Paleoproterozoic | China | Asia | Hebiancun Fm., Dongye Sbgp., Hutuo Gp. | stromatolite | NaN | tidal | tidal | 2030 | 38.6500 | 113.1100 | She et al., 2016; Zhu and Chen, 1992 | 10.1007/s12583-015-0654-4; 10.1016/0301-9268(92)90097-8 | NaN |
| Paleoproterozoic | Australia | Australia | Celia Dolostone, Manton Gp., Woodcutters Sgp. | stromatolite | NaN | tidal | tidal | 2026 | -13.0000 | 131.0000 | Ahmad and Hollis, 2013 | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Coomalie Dolostone, Mount Partridge Gp., Woodcutters Sgp. | stromatolite | NaN | marine | marine | 2020 | -13.0000 | 131.0000 | Ahmad and Hollis, 2013 | NaN | NaN |
| Paleoproterozoic | Canada | North America | Kasegalik Fm., Belcher Gp. | stromatolite | NaN | tidal | tidal | 2015 | 56.2000 | -78.9000 | Goodwin and Papineau, 2022; Hofmann, 1989 | 10.1089/ast.2021.0010 | NaN |
| Paleoproterozoic | Canada | North America | Denault Fm., Attikamagen Gp. | stromatolite | NaN | marine | marine | 2000 | 54.8780 | -65.8730 | Zentmyer et al., 2011; Harrison, 1952 | 10.1016/j.sedgeo.2011.04.007; 10.4095/123923 | NaN |
| Paleoproterozoic | Canada | North America | Rowatt Fm., Belcher Gp. | stromatolite | NaN | tidal | tidal | 2000 | 56.2000 | -78.9000 | Gabriel et al., 2021; Ricketts, 1979 | 10.1016/j.precamres.2020.106052 | NaN |
| Paleoproterozoic | Canada | North America | Mavor Fm., Belcher Gp. | stromatolite | NaN | tidal | tidal, marine | 2000 | 56.2000 | -78.9000 | Gabriel et al., 2021; Ricketts, 1979 | 10.1016/j.precamres.2020.106052 | NaN |
| Paleoproterozoic | Canada | North America | Mavor Fm., Belcher Gp. | stromatolite | NaN | marine | tidal, marine | 2000 | 56.2000 | -78.9000 | Gabriel et al., 2021; Ricketts, 1979 | 10.1016/j.precamres.2020.106052 | NaN |
| Paleoproterozoic | Canada | North America | Tukarak Fm., Belcher Gp. | stromatolite | NaN | marine | marine | 2000 | 56.2000 | -78.9000 | Gabriel et al., 2021; Ricketts, 1979 | 10.1016/j.precamres.2020.106052 | NaN |
| Paleoproterozoic | Canada | North America | McLeary Fm., Belcher Gp. | stromatolite | NaN | tidal | tidal | 2000 | 56.2000 | -78.9000 | Gabriel et al., 2021; Ricketts, 1979 | 10.1016/j.precamres.2020.106052 | NaN |
| Paleoproterozoic | China | Asia | Gantaohe Gp. | stromatolite | NaN | marine | epeiric | 2000 | 37.5000 | 114.0000 | Zhu, 1982; Zhu and Chen, 1992; Semikhatov et al., 1999; Semikhatov and Raaben, 1994; Cai et al., 2022; Tang et al., 2013; Du et al., 2016 | 10.1016/0301-9268(82)90009-2; 10.1016/0301-9268(92)90097-8; 10.1016/j.precamres.2016.09.027 | specific formations uncertain; depositional setting uncertain, possible continental rift basin |
| Paleoproterozoic | India | Asia | Vempalle Fm., Papaghni Gp., Cuddapah Sgp. | stromatolite, oncolite | NaN | tidal | tidal, marine | 2000 | 14.0270 | 78.0580 | Chakrabarti et al., 2014 | 10.1016/j.jseaes.2013.09.028 | NaN |
| Paleoproterozoic | India | Asia | Vempalle Fm., Papaghni Gp., Cuddapah Sgp. | stromatolite, oncolite | NaN | marine | tidal, marine | 2000 | 14.0270 | 78.0580 | Chakrabarti et al., 2014 | 10.1016/j.jseaes.2013.09.028 | NaN |
| Paleoproterozoic | Russia | Europe | Kolosjoki Sedimentary Fm., Pechenga Belt | stromatolite, oncolite | NaN | marine | marine, tidal | 2000 | 69.0000 | 30.0000 | Melezhik et al., 2013; Salminen et al., 2013 | 10.1016/j.chemgeo.2013.10.018 | NaN |
| Paleoproterozoic | Russia | Europe | Kolosjoki Sedimentary Fm., Pechenga Belt | stromatolite, oncolite | NaN | tidal | marine, tidal | 2000 | 69.0000 | 30.0000 | Melezhik et al., 2013; Salminen et al., 2013 | 10.1016/j.chemgeo.2013.10.018 | NaN |
| Paleoproterozoic | Russia | Europe | Zaonezhskaya Fm. | stromatolite | NaN | terrestrial | lacustrine | 2000 | 62.0000 | 34.0000 | Semikhatov et al., 1999; Melezhik et al., 1997; Melezhik et al., 2013 | NaN | numerous alternate speelings, including "Zaonega" and "Saonezhskaya" |
| Paleoproterozoic | Canada | North America | Peg Fm., Kimerot Gp., Goulburn Sgp. | stromatolite | NaN | marine | marine, tidal | 1969 | 67.0000 | -107.0000 | Cecile and Campbell, 1978; Campbell and Cecile, 1981; Grotzinger et al., 1987; Gong and Evans, 2022 | 10.4095/109378; 10.1016/j.precamres.2021.106516 | NaN |
| Paleoproterozoic | Canada | North America | Hackett Fm., Bear Creek Gp., Goulburn Sgp. | stromatolite | NaN | tidal | tidal, lagoon | 1969 | 67.0000 | -107.0000 | Cecile and Campbell, 1978; Campbell and Cecile, 1981; Grotzinger et al., 1987; Gong and Evans, 2022 | 10.4095/109378; 10.1016/j.precamres.2021.106516 | NaN |
| Paleoproterozoic | Canada | North America | Peg Fm., Kimerot Gp., Goulburn Sgp. | stromatolite | NaN | tidal | marine, tidal | 1969 | 67.0000 | -107.0000 | Cecile and Campbell, 1978; Campbell and Cecile, 1981; Grotzinger et al., 1987; Gong and Evans, 2022 | 10.4095/109378; 10.1016/j.precamres.2021.106516 | NaN |
| Paleoproterozoic | Canada | North America | Beechey Fm., Bear Creek Gp., Goulburn Sgp. | stromatolite | NaN | marine | marine | 1963 | 67.0000 | -107.0000 | Cecile and Campbell, 1978; Campbell and Cecile, 1981; Grotzinger et al., 1987; Gong and Evans, 2022 | 10.4095/109378; 10.1016/j.precamres.2021.106516 | NaN |
| Paleoproterozoic | Canada | North America | Rifle Fm., Bear Creek Gp., Goulburn Sgp. | stromatolite | NaN | tidal | tidal | 1963 | 67.0000 | -107.0000 | Cecile and Campbell, 1978; Campbell and Cecile, 1981; Grotzinger et al., 1987; Gong and Evans, 2022 | 10.4095/109378; 10.1016/j.precamres.2021.106516 | NaN |
| Paleoproterozoic | Canada | North America | Watterson Fm., Hurwitz Gp. | stromatolite | NaN | marine | marine, tidal | 1960 | 62.4200 | -94.5800 | Hofmann and Davidson, 1998; Davis et al., 2005; Aspler and Chiarenzelli, 1997 | 10.1139/e97-103; 10.1016/S0301-9268(96)00038-1 | NaN |
| Paleoproterozoic | Canada | North America | Watterson Fm., Hurwitz Gp. | stromatolite | NaN | tidal | tidal, marine | 1960 | 62.4200 | -94.5800 | Hofmann and Davidson, 1998; Davis et al., 2005; Aspler and Chiarenzelli, 1997 | 10.1139/e97-103; 10.1016/S0301-9268(96)00038-1 | NaN |
| Paleoproterozoic | Australia | Australia | Yelma Fm., Tooloo Gp. | stromatolite | NaN | tidal | tidal, marine, lagoon | 1950 | -26.0000 | 120.0000 | Grey, 1984; Jones et al., 2000; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Yelma Fm., Tooloo Gp. | stromatolite | NaN | marine | tidal, marine, lagoon | 1950 | -26.0000 | 120.0000 | Grey, 1984; Jones et al., 2000; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Canada | North America | Tavani Fm., Hurwitz Gp. | stromatolite | NaN | marine | marine | 1911 | 62.4200 | -94.5800 | Davis et al., 2005; Aspler and Chiarenzelli, 1997 | 10.1016/S0301-9268(96)00038-1 | NaN |
| Paleoproterozoic | Canada | North America | Nastapoka Gp. | stromatolite, oncolite | NaN | tidal | tidal | 1900 | 56.4400 | -76.6350 | Chandler, 1984; Dodd et al., 2018 | 10.1144/gsjgs.141.2.0299; 10.1016/j.precamres.2018.02.016 | NaN |
| Paleoproterozoic | Canada | North America | Wishart Fm. | stromatolite | NaN | marine | marine | 1900 | 54.7170 | -66.8330 | Simonson, 1984; Simonson, 1985 | 10.2110/pec.84.34.0251; 10.1111/j.1365-3091.1985.tb00490.x | potential for tidal deposition |
| Paleoproterozoic | Canada | North America | Burnside Fm., Bear Creek Gp., Goulburn Sgp. | stromatolite | NaN | terrestrial | lacustrine | 1900 | 67.0000 | -110.0000 | Cecile and Campbell, 1978; Campbell and Cecile, 1981; Grotzinger et al., 1987; McCormick and Grotzinger, 1992; Gong and Evans, 2022 | 10.4095/109378; 10.1111/j.1365-2117.1992.tb00048.x; 10.1016/j.precamres.2021.106516 | NaN |
| Paleoproterozoic | Canada | North America | Duhamel Fm., Sosan Gp., Great Slave Lake Sgp. | stromatolite, oncolite | NaN | marine | marine, tidal | 1900 | 62.3300 | -110.7500 | Hoffman, 1968; Hofmann, 1969 | NaN | NaN |
| Paleoproterozoic | Canada | North America | Duhamel Fm., Sosan Gp., Great Slave Lake Sgp. | stromatolite, oncolite | NaN | tidal | marine, tidal | 1900 | 62.3300 | -110.7500 | Hoffman, 1968; Hofmann, 1969 | NaN | NaN |
| Paleoproterozoic | Canada | North America | Hornby Channel Fm., Sosan Gp., Great Slave Lake Sgp. | stromatolite | NaN | terrestrial | fluvial | 1900 | 61.7500 | -113.0000 | Hoffman, 1968; Hofmann, 1969 | NaN | NaN |
| Paleoproterozoic | China | Asia | Zhongtiao Gp. | stromatolite | NaN | tidal | tidal | 1900 | 34.0000 | 110.0000 | Zhu, 1982; Zhu and Chen, 1992; Semikhatov et al., 1999; Semikhatov and Raaben, 1994; Sun et al., 1990 | 10.1016/0301-9268(82)90009-2; 10.1016/0301-9268(92)90097-8; 10.1016/0301-9268(90)90043-P | specific formations uncertain |
| Paleoproterozoic | Finland | Europe | Sala Deposit, Bergslagen Region | stromatolite | NaN | marine | marine | 1900 | 60.0000 | 16.5000 | Jansson, 2016; Stephens and Jansson, 2020; Kähkönen, 2005 | 10.1080/11035897.2016.11; 10.1144/M50-2017-40 | NaN |
| Paleoproterozoic | Russia | Europe | Vashozero Fm., Onega Basin | stromatolite, oncolite | NaN | tidal | tidal | 1900 | 62.4000 | 34.9000 | Melezhik et al., 2013 | NaN | NaN |
| Paleoproterozoic | Russia | Europe | Kondopoga Fm. | stromatolite | NaN | terrestrial | lacustrine | 1900 | 62.0000 | 34.0000 | Semikhatov et al., 1999; Melezhik et al., 1997; Javaux et al., 2013 | NaN | also bears potential microfossils; Javaux et al. (2013) in Melezhik et al. (2013; Volume 3) |
| Paleoproterozoic | Sweden | Europe | Dannemora Iron Fm. | stromatolite | NaN | marine | marine | 1900 | 60.1990 | 17.8460 | Dahlin et al., 2012; Jansson et al., 2017 | 10.1080/11035897.2012.674551; 10.1016/j.oregeorev.2016.12.004 | Lager, 2001 notes that some stromatolite-like structures may be evaporitic and abiotic |
| Paleoproterozoic | Australia | Australia | Frere Fm. | stromatolite, oncolite | NaN | tidal | tidal | 1890 | -26.1330 | 121.3000 | Walter et al., 1976; Raye et al., 2024 | 10.1016/j.precamres.2024.107461 | NaN |
| Paleoproterozoic | Australia | Australia | Sweetwaters Well Dolomite, Tooloo Gp. | stromatolite | NaN | tidal | lagoon | 1890 | -25.6000 | 120.5000 | Grey, 1984; Jones et al., 2000; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Canada | North America | Odjick Fm., Epworth Gp., Coronation Sgp. | stromatolite | NaN | marine | marine | 1890 | 66.5000 | -113.5000 | Hofmann and Grotzinger, 1985 | 10.1139/e85-189 | NaN |
| Paleoproterozoic | Canada | North America | Rocknest Fm., Epworth Gp., Coronation Sgp. | stromatolite, thrombolite | NaN | tidal | tidal, lagoon | 1890 | 66.5000 | -113.5000 | Hofmann and Grotzinger, 1985; Kah and Grotzinger, 1992 | 10.1139/e85-189; 10.2307/3514975 | NaN |
| Paleoproterozoic | Canada | North America | Mara Fm., Bear Creek Gp., Goulburn Sgp. | stromatolite | NaN | tidal | tidal | 1885 | 67.0000 | -108.0000 | Cecile and Campbell, 1978; Campbell and Cecile, 1981; Grotzinger et al., 1987; Gong and Evans, 2022 | 10.1016/j.precamres.2021.106516 | NaN |
| Paleoproterozoic | Canada | North America | Sokoman Iron Fm. | stromatolite | NaN | tidal | tidal, lagoon | 1880 | 54.8130 | -66.7400 | Knoll and Simonson, 1981; Anderson and Pufahl, 2009 | 10.1126/science.211.4481.478 | NaN |
| Paleoproterozoic | Canada | North America | Douglas Fm., Pethei Gp., Great Slave Lake Sgp. | stromatolite | NaN | marine | marine | 1880 | 62.0300 | -112.1600 | Goodwin and Papineau, 2022; Hofmann, 1989 | 10.1089/ast.2021.0010 | NaN |
| Paleoproterozoic | Canada | North America | McLean Fm., Pethei Gp., Great Slave Lake Sgp. | stromatolite | NaN | marine | marine | 1880 | 62.0300 | -112.1600 | Goodwin and Papineau, 2022; Hofmann, 1989 | 10.1089/ast.2021.0010 | NaN |
| Paleoproterozoic | Canada | North America | Wildbread Fm., Pethei Gp., Great Slave Lake Sgp. | stromatolite | NaN | marine | marine | 1880 | 62.0300 | -112.1600 | Goodwin and Papineau, 2022; Hofmann, 1989 | 10.1089/ast.2021.0010 | NaN |
| Paleoproterozoic | Canada | North America | Hearne Fm., Pethei Gp., Great Slave Lake Sgp. | stromatolite | NaN | marine | marine, tidal | 1880 | 62.0300 | -112.1600 | Goodwin and Papineau, 2022; Hofmann, 1989; Pope and Grotzinger, 2000 | 10.1089/ast.2021.0010 | NaN |
| Paleoproterozoic | Canada | North America | Hearne Fm., Pethei Gp., Great Slave Lake Sgp. | stromatolite | NaN | tidal | marine, tidal | 1880 | 62.0300 | -112.1600 | Goodwin and Papineau, 2022; Hofmann, 1989; Pope and Grotzinger, 2000 | 10.1089/ast.2021.0010 | NaN |
| Paleoproterozoic | Canada | North America | Quadyuk Fm., Bear Creek Gp., Goulburn Sgp. | stromatolite | NaN | marine | marine | 1880 | 67.0000 | -108.0000 | Cecile and Campbell, 1978; Campbell and Cecile, 1981; Grotzinger et al., 1987; Gong and Evans, 2022 | 10.1016/j.precamres.2021.106516 | NaN |
| Paleoproterozoic | Canada | North America | Kuuvik Fm., Wolverine Gp., Goulburn Sgp. | stromatolite | NaN | marine | marine, tidal | 1880 | 67.0000 | -108.0000 | Cecile and Campbell, 1978; Campbell and Cecile, 1981; Grotzinger et al., 1987; Gong and Evans, 2022 | 10.1016/j.precamres.2021.106516 | NaN |
| Paleoproterozoic | Canada | North America | Kuuvik Fm., Wolverine Gp., Goulburn Sgp. | stromatolite | NaN | tidal | marine, tidal | 1880 | 67.0000 | -108.0000 | Cecile and Campbell, 1978; Campbell and Cecile, 1981; Grotzinger et al., 1987; Gong and Evans, 2022 | 10.1016/j.precamres.2021.106516 | NaN |
| Paleoproterozoic | Canada, USA | North America | Gunflint Iron Fm. | stromatolite | NaN | marine | marine, tidal | 1880 | 48.8110 | -87.2750 | Barghoorn and Tyler, 1965; Markun and Randazzo, 1980; Planavsky et al., 2009 | 10.1126/science.147.3658.563; 10.1016/0301-9268(80)90032-7; 10.1016/j.epsl.2009.06.033 | NaN |
| Paleoproterozoic | Canada, USA | North America | Gunflint Iron Fm. | stromatolite | NaN | tidal | marine, tidal | 1880 | 48.8110 | -87.2750 | Barghoorn and Tyler, 1965; Markun and Randazzo, 1980; Planavsky et al., 2009 | 10.1126/science.147.3658.563; 10.1016/0301-9268(80)90032-7; 10.1016/j.epsl.2009.06.033 | NaN |
| Paleoproterozoic | China | Asia | Jianancun Fm., Dongye Sbgp., Hutuo Gp. | stromatolite | NaN | tidal | tidal | 1880 | 38.6500 | 113.1100 | She et al., 2016; Zhu and Chen, 1992 | 10.1007/s12583-015-0654-4; 10.1016/0301-9268(92)90097-8 | NaN |
| Paleoproterozoic | China | Asia | Daguandong Fm., Dongye Sbgp., Hutuo Gp. | stromatolite | NaN | tidal | tidal | 1880 | 38.6500 | 113.1100 | She et al., 2016; Zhu and Chen, 1992 | 10.1007/s12583-015-0654-4; 10.1016/0301-9268(92)90097-8 | NaN |
| Paleoproterozoic | China | Asia | Beidaxing Fm., Dongye Sbgp., Hutuo Gp. | stromatolite | NaN | tidal | tidal | 1880 | 38.6500 | 113.1100 | She et al., 2016; Zhu and Chen, 1992 | 10.1007/s12583-015-0654-4; 10.1016/0301-9268(92)90097-8 | NaN |
| Paleoproterozoic | China | Asia | Tianpengnao Fm., Dongye Sbgp., Hutuo Gp. | stromatolite | NaN | tidal | tidal | 1880 | 38.6500 | 113.1100 | She et al., 2016; Zhu and Chen, 1992 | 10.1007/s12583-015-0654-4; 10.1016/0301-9268(92)90097-8 | NaN |
| Paleoproterozoic | China | Asia | Lanhe Gp. | stromatolite | NaN | marine | marine | 1880 | 38.0000 | 111.0000 | Zhu, 1982; Zhu and Chen, 1992; Semikhatov et al., 1999 | 10.1016/0301-9268(82)90009-2; 10.1016/0301-9268(92)90097-8 | specific formations uncertain; depositional setting uncertain, possible continental rift basin |
| Paleoproterozoic | USA | North America | Biwabik Iron Fm. | stromatolite, oncolite | NaN | marine | marine | 1875 | 47.8940 | -72.4310 | Planavsky et al., 2009 | 10.1016/j.epsl.2009.06.033 | NaN |
| Paleoproterozoic | Canada | North America | Gibralter Fm., Kahochella Gp., Great Slave Lake Sgp. | stromatolite | NaN | marine | marine | 1870 | 62.8200 | -110.7300 | Hoffman, 1968; Hofmann, 1969 | NaN | NaN |
| Paleoproterozoic | Canada | North America | Seton Fm., Kahochella Gp., Great Slave Lake Sgp. | stromatolite | NaN | marine | marine | 1870 | 62.0000 | -112.0000 | Hoffman, 1968; Hofmann, 1969 | NaN | NaN |
| Paleoproterozoic | Canada | North America | Utsingi Fm., Pethei Gp., Great Slave Lake Sgp. | stromatolite | NaN | marine | marine | 1865 | 62.1000 | -112.1000 | Hoffman, 1968; Sami and James, 1993; Pope and Grotzinger, 2003 | NaN | NaN |
| Paleoproterozoic | Canada | North America | Taltheilei Fm., Pethei Gp., Great Slave Lake Sgp. | stromatolite, oncolite | NaN | marine | marine | 1865 | 62.1000 | -112.1000 | Hoffman, 1968; Sami and James, 1993; Pope and Grotzinger, 2003 | NaN | NaN |
| Paleoproterozoic | Canada | North America | Stark Fm., Great Slave Lake Sgp. | stromatolite | NaN | marine | marine, tidal | 1865 | 62.5000 | -110.5000 | Pope and Grotzinger, 2003; Hoffman, 1968; Hofmann, 1969 | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Koolpin Fm., South Alligator Gp. | stromatolite, MISS | NaN | terrestrial | epeiric, deltaic, mudflat | 1863 | -13.0000 | 131.0000 | Semikhatov et al., 1999; Australian Stratigraphic Units Database; Matthäi and Henley, 1996 | 10.1016/0301-9268(95)00057-7 | NaN |
| Paleoproterozoic | India | Asia | Yargatti Fm., Lokapur Sbgp., Bagalkot Gp., Kaladgi Sgp. | stromatolite | NaN | tidal | tidal | 1860 | 16.0000 | 75.5000 | Sharma and Pandey, 2012; Boraiaha et al., 2024 | 10.54991/jop.2012.353; 10.17491/jgsi/2024/173847 | NaN |
| Paleoproterozoic | India | Asia | Muddapur Fm., Lokapur Sbgp., Bagalkot Gp., Kaladgi Sgp. | stromatolite | NaN | tidal | tidal | 1860 | 16.0000 | 75.5000 | Sharma and Pandey, 2012; Boraiaha et al., 2024 | 10.54991/jop.2012.353; 10.17491/jgsi/2024/173847 | NaN |
| Paleoproterozoic | India | Asia | Arlikatti Fm., Simikeri Sbgp., Bagalkot Gp., Kaladgi Sgp. | stromatolite | NaN | tidal | tidal | 1860 | 16.0000 | 75.5000 | Sharma and Pandey, 2012; Boraiaha et al., 2024 | 10.54991/jop.2012.353; 10.17491/jgsi/2024/173847 | NaN |
| Paleoproterozoic | Australia | Australia | Wongawol Fm., Miningarra Gp. | stromatolite | NaN | tidal | tidal, lagoon | 1850 | -26.0000 | 122.5000 | Grey, 1984; Jones et al., 2000; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Kulele Limestone, Miningarra Gp. | stromatolite | NaN | marine | marine, tidal | 1850 | -26.3000 | 123.0000 | Grey, 1984; Jones et al., 2000; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Kulele Limestone, Miningarra Gp. | stromatolite | NaN | tidal | marine, tidal | 1850 | -26.3000 | 123.0000 | Grey, 1984; Jones et al., 2000; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Canada | North America | Albanel Fm., Mistassini Gp. | stromatolite | NaN | marine | marine, tidal | 1850 | 51.1470 | -72.8990 | Hofmann, 1978; Mirota and Veizer, 1994 | 10.1139/e78-062; 10.1016/0016-7037(94)90533-9 | NaN |
| Paleoproterozoic | Canada | North America | Albanel Fm., Mistassini Gp. | stromatolite | NaN | tidal | marine, tidal | 1850 | 51.1470 | -72.8990 | Hofmann, 1978; Mirota and Veizer, 1994 | 10.1139/e78-062; 10.1016/0016-7037(94)90533-9 | NaN |
| Paleoproterozoic | Canada | North America | Cheno Fm., Mistassini Gp. | stromatolite | NaN | marine | marine | 1850 | 51.4000 | -72.9000 | Genest, 1989 (in French); Caty, 1976 (in French); Veillette, 2006 | 10.7202/013138ar | NaN |
| Paleoproterozoic | USA | North America | Michigamme Fm., Baraga Gp. | stromatolite | NaN | tidal | tidal | 1850 | 46.7000 | -88.0000 | Ojakangas, 1994; Nelson et al., 2010 | 10.1016/j.sedgeo.2010.02.001 | NaN |
| Paleoproterozoic | Australia | Australia | Carson Volcanics, Kimberley Gp. | stromatolite | NaN | marine | epeiric | 1834 | -16.0000 | 128.0000 | Grey, 1982; Schmidt and Williams, 2008; Australian Stratigraphic Units Database | 10.1016/0301-9268(82)90008-0; 10.1016/j.precamres.2008.09.002 | NaN |
| Paleoproterozoic | Australia | Australia | Frew River Fm., Wauchope Sbgp., Hatches Creek Gp. | stromatolite | NaN | tidal | tidal, lagoon | 1810 | -20.9760 | 135.0400 | Donnellan, 2013 | NaN | In Ahmad et al., 2013 |
| Paleoproterozoic | Australia | Australia | Capricorn Gp. | stromatolite | NaN | marine | marine | 1804 | -23.5000 | 117.0000 | Semikhatov et al., 1999; Thorne and Seymour, 1991; Occhipinti et al., 2003 | NaN | possibly lacustrine, unclear which formation(s) are stromatolitic |
| Paleoproterozoic | Australia | Australia | Duck Creek Fm., Wyloo Gp. | stromatolite | NaN | tidal | tidal | 1800 | -22.5000 | 116.3500 | Grey and Thorne, 1985; Wilson et al., 2010 | 10.1016/0301-9268(85)90068-3; 10.1016/j.precamres.2010.02.019 | NaN |
| Paleoproterozoic | Australia | Australia | Hinde Dolostone, Tomer Gp. | stromatolite | NaN | marine | marine | 1800 | -14.0000 | 131.0000 | Dunster and Ahmad, 2013; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Botswana, South Africa | Africa | Makabeng Fm., Waterberg Gp. | MISS | roll-ups | terrestrial | aeolian | 1800 | -23.2600 | 28.9500 | Eriksson et al., 2000 | 10.1669/0883-1351(2000)015<0177:MRUSIS>2.0.CO;2 | NaN |
| Paleoproterozoic | China | Asia | Chuanlinggou Fm., Changchengian Gp. | stromatolite, oncolite | NaN | marine | marine | 1800 | 40.7920 | 115.5730 | Zhu and Chen, 1992; Yongding et al., 2004 | 10.1016/0301-9268(92)90097-8; 10.1360/02yd0178 | NaN |
| Paleoproterozoic | India | Asia | Gulcheru Fm., Papaghni Gp., Cuddapah Sgp. | MISS | NaN | tidal | tidal | 1800 | 14.0000 | 78.0000 | Chakrabarti and Shome, 2010 | 10.1016/j.sedgeo.2010.02.003 | NaN |
| Paleoproterozoic | Australia | Australia | Elgee Siltstone, Kimberley Gp. | stromatolite | NaN | marine | epeiric | 1786 | -16.0000 | 128.0000 | Grey, 1982; Schmidt and Williams, 2008; Australian Stratigraphic Units Database | 10.1016/0301-9268(82)90008-0; 10.1016/j.precamres.2008.09.002 | NaN |
| Paleoproterozoic | Canada | North America | George Fm., Muskwa Assemblage | stromatolite | NaN | marine | marine | 1783 | 58.5000 | -125.5000 | Bellefroid et al., 2019 | 10.2475/02.2019.03 | NaN |
| Paleoproterozoic | Australia | Australia | Carmilly Fm., Tomkinson Creek Gp. | stromatolite | NaN | tidal | tidal, lagoon, sabkha | 1780 | -19.2000 | 134.1500 | Donnellan, 2013 | NaN | In Ahmad et al., 2013 |
| Paleoproterozoic | Australia | Australia | Hayward Creek Fm., Tomkinson Creek Gp. | MISS | mat laminae | tidal | tidal | 1780 | -19.2000 | 134.1500 | Donnellan, 2013 | NaN | In Ahmad et al., 2013 |
| Paleoproterozoic | Australia | Australia | Bootu Fm., Tomkinson Creek Gp. | stromatolite | NaN | tidal | tidal | 1780 | -19.2000 | 134.1500 | Donnellan, 2013 | NaN | In Ahmad et al., 2013 |
| Paleoproterozoic | Australia | Australia | Attack Creek Fm., Tomkinson Creek Gp. | stromatolite, MISS, oncolite | mat chips | tidal | tidal | 1780 | -19.2000 | 134.1500 | Donnellan, 2013 | NaN | In Ahmad et al., 2013 |
| Paleoproterozoic | Australia | Australia | Morphett Creek Fm., Tomkinson Creek Gp. | stromatolite | NaN | tidal | tidal, sabkha | 1780 | -19.2000 | 134.1500 | Donnellan, 2013 | NaN | In Ahmad et al., 2013 |
| Paleoproterozoic | Australia | Australia | Short Range Sandstone, Tomkinson Creek Gp. | MISS | mat roll-ups | tidal | tidal | 1780 | -19.2000 | 134.1500 | Donnellan, 2013 | NaN | In Ahmad et al., 2013 |
| Paleoproterozoic | Canada | North America | Tuchodi Fm., Muskwa Assemblage | stromatolite | NaN | marine | marine | 1766 | 58.5000 | -125.5000 | Bellefroid et al., 2019 | 10.2475/02.2019.03 | NaN |
| Paleoproterozoic | Australia | Australia | Cottee Fm., Katherine River Gp. | stromatolite | NaN | marine | marine | 1760 | -13.0000 | 134.0000 | Ahmad et al., 2013; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Breakfast Sandstone, Benmara Gp. | stromatolite | NaN | terrestrial | fluvial, marine | 1756 | -18.1500 | 136.9170 | Ahmad and Munson, 2013; Rawlings et al., 2008 | NaN | Uncertain depositional environment, fluvial or shallow marine |
| Paleoproterozoic | Australia | Australia | Breakfast Sandstone, Benmara Gp. | stromatolite | NaN | marine | fluvial, marine | 1756 | -18.1500 | 136.9170 | Ahmad and Munson, 2013; Rawlings et al., 2008 | NaN | Uncertain depositional environment, fluvial or shallow marine |
| Paleoproterozoic | Australia | Australia | Overhang Jaspilite, Malbon Gp. | stromatolite | NaN | marine | marine | 1750 | -20.8200 | 140.4000 | Semikhatov et al., 1999; Australian Stratigraphic Units Database; Gibson et al., 2018 | 10.1016/j.precamres.2018.05.013 | NaN |
| Paleoproterozoic | Australia | Australia | Quilalar Fm. | stromatolite | NaN | marine | marine | 1750 | -20.0000 | 140.0000 | Semikhatov et al., 1999; Blake, 1987; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Corella Fm., Mary Kathleen Gp. | stromatolite | NaN | marine | marine | 1750 | -21.0000 | 140.0000 | Semikhatov et al., 1999; Blake, 1987; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Wollogorang Fm., Tawallah Gp. | stromatolite | NaN | marine | marine | 1730 | -16.7500 | 136.5000 | Ahmad et al., 2013; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Brumby Fm., McNamara Gp. | stromatolite | NaN | tidal | marine, tidal, sabkha | 1725 | -18.6250 | 137.5000 | Ahmad and Munson, 2013; Rawlings et al., 2008 | NaN | Ahmad and Munson, 2013 in Ahmad et al., 2013 |
| Paleoproterozoic | Australia | Australia | Brumby Fm., McNamara Gp. | stromatolite | NaN | marine | marine, tidal, sabkha | 1725 | -18.6250 | 137.5000 | Ahmad and Munson, 2013; Rawlings et al., 2008 | NaN | Ahmad and Munson, 2013 in Ahmad et al., 2013 |
| Paleoproterozoic | Canada | North America | Lookout Point Fm., Barrensland Gp., Dubawnt Sgp. | stromatolite, oncolite | NaN | tidal | tidal | 1720 | 64.2500 | -103.0000 | Gall et al., 1992; Semikhatov et al., 1999 | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Drummond Fm., Carrara Range Gp. | stromatolite | NaN | tidal | tidal, fluvial | 1715 | -18.6220 | 137.4670 | Ahmad and Munson, 2013; Rawlings et al., 2008 | NaN | Ahmad and Munson, 2013 in Ahmad et al., 2013 |
| Paleoproterozoic | Australia | Australia | Drummond Fm., Carrara Range Gp. | stromatolite | NaN | terrestrial | tidal, fluvial | 1715 | -18.6220 | 137.4670 | Ahmad and Munson, 2013; Rawlings et al., 2008 | NaN | Ahmad and Munson, 2013 in Ahmad et al., 2013 |
| Paleoproterozoic | Australia | Australia | Marura Siltstone, Parsons Range Gp. | stromatolite | NaN | tidal | tidal, sabkha | 1710 | -13.5000 | 135.5000 | Ahmad et al., 2013; Haines et al., 1999; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Badalngarrmirri Fm., Parsons Range Gp. | stromatolite | NaN | marine | marine | 1710 | -13.5000 | 135.5000 | Ahmad et al., 2013; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Yarawoi Fm., Habgood Gp. | stromatolite | NaN | marine | marine | 1705 | -12.3000 | 135.8000 | Ahmad et al., 2013; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Darwarunga Sandstone, Habgood Gp. | stromatolite | NaN | tidal | tidal | 1705 | -12.3000 | 135.8000 | Ahmad et al., 2013; Australian Stratigraphic Units Database | NaN | shallow water with periodic exposure |
| Paleoproterozoic | Australia | Australia | Ulunourwi Fm., Habgood Gp. | stromatolite | NaN | tidal | tidal | 1705 | -12.3000 | 135.8000 | Ahmad et al., 2013; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Gwakura Fm., Habgood Gp. | stromatolite | NaN | marine | marine | 1700 | -12.3000 | 135.8000 | Ahmad et al., 2013; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Canada | North America | East River Fm., Hornby Bay Gp. | stromatolite | NaN | tidal | tidal, marine | 1700 | 66.7000 | -118.1000 | Ross and Donaldson, 1989 | NaN | NaN |
| Paleoproterozoic | Canada | North America | East River Fm., Hornby Bay Gp. | stromatolite | NaN | marine | tidal, marine | 1700 | 66.7000 | -118.1000 | Ross and Donaldson, 1989 | NaN | NaN |
| Paleoproterozoic | Canada | North America | Smart Fm., Manitou Falls Gp., Athabasca Sgp. | oncolite, stromatolite, MISS | NaN | terrestrial | fluvial, pond | 1700 | 57.8000 | -108.9500 | Yeo et al., 2007; Ramaekers and Catuneanu, 2004 | 10.4095/223777 | includes clastic oncolites; Ramaekers and Catuneanu (2004) is in Eriksson et al. (2004; Chapter 8) |
| Paleoproterozoic | Canada | North America | Read Fm., Manitou Falls Gp., Athabasca Sgp. | oncolite, stromatolite, MISS | NaN | terrestrial | fluvial, pond | 1700 | 57.7500 | -105.1200 | Yeo et al., 2007; Ramaekers and Catuneanu, 2004 | 10.4095/223777 | includes clastic oncolites; Ramaekers and Catuneanu (2004) is in Eriksson et al. (2004; Chapter 8) |
| Paleoproterozoic | India | Asia | Kajrahat Fm., Semri Gp., Vindhyan Sgp. | stromatolite | NaN | tidal | tidal | 1700 | 24.0000 | 81.0000 | Banerjee et al., 2007 | 10.1016/j.jseaes.2006.05.006 | NaN |
| Paleoproterozoic | India | Asia | Kushalgarh Fm., Ajabgarh Gp., Delhi Sgp. | stromatolite | NaN | tidal | tidal, lagoon | 1700 | 27.5000 | 76.5000 | Singh, 1988; McKenzie et al., 2013 | 10.1016/0037-0738(88)90007-3; 10.1016/j.precamres.2013.10.006 | NaN |
| Paleoproterozoic | India | Asia | Bajno Dolomite Fm., Moli Sbgp., Bijawar Gp. | stromatolite | NaN | tidal | tidal | 1691 | 24.4000 | 79.3000 | Chakraborty et al., 2015 | 10.1144/M43.5 | NaN |
| Paleoproterozoic | Australia | Australia | Paradise Creek Fm., McNamara Gp. | stromatolite | NaN | tidal | tidal | 1655 | -20.0000 | 139.0000 | Hofmann and Schopf, 1983; Licari et al., 1969 | 10.1073/pnas.62.1.56 | NaN |
| Paleoproterozoic | Australia | Australia | Carruthers Fm., Namerinni Gp. | stromatolite, MISS | NaN | tidal | tidal, sabkha | 1650 | -19.0000 | 134.0000 | Donnellan, 2013 | NaN | In Ahmad et al., 2013 |
| Paleoproterozoic | Australia | Australia | Lochness Fm., Myally Sbgp., Haslingden Gp. | stromatolite | NaN | tidal | tidal | 1650 | -20.2370 | 139.6580 | Walter et al., 1988; Australian Stratigraphic Units Database | 10.1080/03115518808618998 | NaN |
| Paleoproterozoic | Australia | Australia | Walford Dolostone, Fickling Gp. | stromatolite | NaN | tidal | tidal | 1649 | -17.8000 | 138.0000 | Ahmad and Munson, 2013 | NaN | Ahmad and Munson, 2013 in Ahmad et al., 2013 |
| Paleoproterozoic | Australia | Australia | Emmerugga Dolostone, Umbolooga Sbgp., McArthur Gp. | stromatolite | NaN | tidal | tidal | 1648 | -16.7500 | 136.5000 | Kunzmann et al., 2019; Walter et al., 1988 | 10.1016/j.oregeorev.2019.01.011; 10.1080/03115518808618998 | NaN |
| Paleoproterozoic | Australia | Australia | Tooganinie Fm., Umbolooga Sbgp., McArthur Gp. | stromatolite | NaN | tidal | tidal, lagoon, sabkha, emergent | 1648 | -16.7500 | 136.5000 | Kunzmann et al., 2019; Walter et al., 1988 | 10.1016/j.oregeorev.2019.01.011; 10.1080/03115518808618998 | NaN |
| Paleoproterozoic | Australia | Australia | Myrtle Shale, Umbolooga Sbgp., McArthur Gp. | stromatolite | NaN | tidal | tidal, sabkha | 1648 | -16.7500 | 136.5000 | Ahmad et al., 2013; Kunzmann et al., 2019; Australian Stratigraphic Units Database | 10.1016/j.oregeorev.2019.01.011 | NaN |
| Paleoproterozoic | Australia | Australia | Tatoola Sandstone, Umbolooga Sbgp., McArthur Gp. | stromatolite | NaN | marine | marine | 1648 | -16.7500 | 136.5000 | Ahmad et al., 2013; Kunzmann et al., 2019; Australian Stratigraphic Units Database | 10.1016/j.oregeorev.2019.01.011 | NaN |
| Paleoproterozoic | Australia | Australia | Amelia Dolostone, Umbolooga Sbgp., McArthur Gp. | stromatolite | NaN | marine | marine | 1648 | -16.7500 | 136.5000 | Ahmad et al., 2013; Kunzmann et al., 2019; Australian Stratigraphic Units Database | 10.1016/j.oregeorev.2019.01.011 | NaN |
| Paleoproterozoic | Australia | Australia | Bullrush Congolmerate, McNamara Gp. | stromatolite | NaN | marine | marine | 1646 | -18.4310 | 137.6320 | Ahmad and Munson, 2013; Rawlings et al., 2008 | NaN | Ahmad and Munson, 2013 in Ahmad et al., 2013 |
| Paleoproterozoic | Australia | Australia | Teena Dolostone, Umbolooga Sbgp., McArthur Gp. | stromatolite, oncolite | NaN | tidal | tidal | 1640 | -16.7500 | 136.5000 | Kunzmann et al., 2019; Walter et al., 1988; Ahmad et al., 2013 | 10.1016/j.oregeorev.2019.01.011; 10.1080/03115518808618998 | NaN |
| Paleoproterozoic | Australia | Australia | Reward Dolostone, Umbolooga Sbgp., McArthur Gp. | stromatolite | NaN | marine | marine | 1640 | -16.7500 | 136.5000 | Ahmad et al., 2013; Kunzmann et al., 2019; Australian Stratigraphic Units Database | 10.1016/j.oregeorev.2019.01.011 | NaN |
| Paleoproterozoic | Australia | Australia | Margery Fm., Limbunya Gp. | stromatolite | NaN | tidal | tidal | 1640 | -17.5000 | 130.0000 | Riedman et al., 2023; Dunster and Ahmad, 2013; Australian Stratigraphic Units Database | 10.1002/spp2.1538 | NaN |
| Paleoproterozoic | Australia | Australia | Pear Tree Dolostone, Limbunya Gp. | stromatolite | NaN | tidal | tidal, lagoon | 1640 | -17.5000 | 130.0000 | Riedman et al., 2023; Dunster and Ahmad, 2013; Australian Stratigraphic Units Database | 10.1002/spp2.1538 | NaN |
| Paleoproterozoic | Australia | Australia | Amos Knob Fm., Limbunya Gp. | stromatolite | NaN | tidal | tidal | 1640 | -17.5000 | 130.0000 | Riedman et al., 2023; Dunster and Ahmad, 2013; Australian Stratigraphic Units Database | 10.1002/spp2.1538 | NaN |
| Paleoproterozoic | Australia | Australia | Mallabah Dolostone, Limbunya Gp. | stromatolite | NaN | marine | marine | 1640 | -17.5000 | 130.0000 | Riedman et al., 2023; Dunster and Ahmad, 2013; Australian Stratigraphic Units Database | 10.1002/spp2.1538 | NaN |
| Paleoproterozoic | Australia | Australia | Farquharson Sandstone, Limbunya Gp. | stromatolite | NaN | marine | marine, fluvial | 1640 | -17.5000 | 130.0000 | Riedman et al., 2023; Dunster and Ahmad, 2013; Australian Stratigraphic Units Database | 10.1002/spp2.1538 | NaN |
| Paleoproterozoic | Australia | Australia | Farquharson Sandstone, Limbunya Gp. | stromatolite | NaN | terrestrial | marine, fluvial | 1640 | -17.5000 | 130.0000 | Riedman et al., 2023; Dunster and Ahmad, 2013; Australian Stratigraphic Units Database | 10.1002/spp2.1538 | NaN |
| Paleoproterozoic | Australia | Australia | Blue Hole Fm., Limbunya Gp. | stromatolite | NaN | tidal | tidal | 1640 | -17.5000 | 130.0000 | Riedman et al., 2023; Dunster and Ahmad, 2013; Australian Stratigraphic Units Database | 10.1002/spp2.1538 | NaN |
| Paleoproterozoic | Australia | Australia | Campbell Springs Dolostone, Limbunya Gp. | stromatolite | NaN | marine | marine, tidal | 1640 | -17.5000 | 130.0000 | Riedman et al., 2023; Dunster and Ahmad, 2013; Australian Stratigraphic Units Database | 10.1002/spp2.1538 | NaN |
| Paleoproterozoic | Australia | Australia | Campbell Springs Dolostone, Limbunya Gp. | stromatolite | NaN | tidal | marine, tidal | 1640 | -17.5000 | 130.0000 | Riedman et al., 2023; Dunster and Ahmad, 2013; Australian Stratigraphic Units Database | 10.1002/spp2.1538 | NaN |
| Paleoproterozoic | Australia | Australia | Killaloc Fm., Limbunya Gp. | stromatolite | NaN | tidal | tidal, lagoon | 1640 | -17.5000 | 130.0000 | Riedman et al., 2023; Dunster and Ahmad, 2013; Australian Stratigraphic Units Database | 10.1002/spp2.1538 | NaN |
| Paleoproterozoic | Australia | Australia | Saint Vidgeon Fm., Vizard Gp. | stromatolite | NaN | marine | marine | 1640 | -17.5000 | 130.0000 | Ahmad et al., 2013; Haines et al., 1999; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Buddycurawa Volcanics, Benmara Gp. | stromatolite | NaN | terrestrial | lacustrine, fluvial, tidal | 1640 | -18.1300 | 136.9170 | Ahmad and Munson, 2013; Rawlings et al., 2008 | NaN | Uncertain/varied depositional environment, fluvial/lacustrine, tidal/shallow marine; Ahmad and Munson, 2013 in Ahmad et al., 2013 |
| Paleoproterozoic | Australia | Australia | Buddycurawa Volcanics, Benmara Gp. | stromatolite | NaN | tidal | lacustrine, fluvial, tidal | 1640 | -18.1300 | 136.9170 | Ahmad and Munson, 2013; Rawlings et al., 2008 | NaN | Uncertain/varied depositional environment, fluvial/lacustrine, tidal/shallow marine; Ahmad and Munson, 2013 in Ahmad et al., 2013 |
| Paleoproterozoic | Australia | Australia | Shillinglaw Fm., Namerinni Gp. | stromatolite | NaN | tidal | tidal, sabkha | 1639 | -19.0000 | 134.0000 | Donnellan, 2013 | NaN | In Ahmad et al., 2013 |
| Paleoproterozoic | Australia | Australia | Looking Glass Fm., Batten Sbgp., McArthur Gp. | stromatolite | NaN | tidal | tidal | 1636 | -16.7500 | 136.5000 | Ahmad et al., 2013; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Yalco Fm., Batten Sbgp., McArthur Gp. | stromatolite | NaN | marine | marine, emergent | 1636 | -16.7500 | 136.5000 | Ahmad et al., 2013; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Lynott Fm., Batten Sbgp., McArthur Gp. | stromatolite | NaN | tidal | tidal, sabkha | 1636 | -16.7500 | 136.5000 | Ahmad et al., 2013; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | China | Asia | Dahongyu Fm., Changchengian Gp. | stromatolite | NaN | marine | marine | 1626 | 35.2600 | 112.1500 | Zhu and Chen, 1992; Zhang 1986 | 10.1016/0301-9268(92)90097-8 | NaN |
| Paleoproterozoic | Australia | Australia | Yarrawirrie Fm., Balma Gp. | stromatolite | NaN | terrestrial | lacustrine, tidal, sabkha | 1621 | -13.5000 | 135.5000 | Ahmad et al., 2013; Haines et al., 1999; Australian Stratigraphic Units Database | NaN | depositional environment uncertain; lacustrine or shallow marine/tidal/sabkha |
| Paleoproterozoic | Australia | Australia | Yarrawirrie Fm., Balma Gp. | stromatolite | NaN | tidal | lacustrine, tidal, sabkha | 1621 | -13.5000 | 135.5000 | Ahmad et al., 2013; Haines et al., 1999; Australian Stratigraphic Units Database | NaN | depositional environment uncertain; lacustrine or shallow marine/tidal/sabkha |
| Paleoproterozoic | Australia | Australia | Strawbridge Breccia, Balma Gp. | stromatolite | NaN | tidal | tidal | 1621 | -13.5000 | 135.5000 | Ahmad et al., 2013; Haines et al., 1999; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Koolatong Siltstone, Balma Gp. | stromatolite | NaN | marine | marine | 1621 | -13.5000 | 135.5000 | Ahmad et al., 2013; Haines et al., 1999; Australian Stratigraphic Units Database | NaN | NaN |
| Paleoproterozoic | China | Asia | Tuanshanzin Fm., Changchengian Gp. | stromatolite | NaN | tidal | tidal | 1606 | 35.2600 | 112.1500 | Zhu and Chen, 1992; Zhang, 1986 | 10.1016/0301-9268(92)90097-8 | NaN |
| Paleoproterozoic | Australia | Australia | Bath Range Fm., Balma Gp. | stromatolite | NaN | tidal | tidal | 1600 | -13.1170 | 135.7170 | Ahmad et al., 2013; Haines et al., 1999; Australian Stratigraphic Units Database | NaN | top age 1599±11 Ma |
| Paleoproterozoic | Australia | Australia | Moyle River Fm., Fitzmaurice Gp. | stromatolite | NaN | marine | marine | 1600 | -12.8000 | 130.3000 | Dunster, 2010 | NaN | NaN |
| Paleoproterozoic | Australia | Australia | Willy Willy Fm., Scorpion Gp., Bangemall Sgp. | stromatolite | NaN | tidal | tidal | 1600 | -25.0000 | 121.0000 | Semikhatov et al., 1999; Hocking, 2018; Australian Stratigraphic Units Database | NaN | possibly Mesoproterozoic |
| Paleoproterozoic | Australia | Australia | Irregully Fm., Edmund Gp., Bangemall Sgp. | stromatolite | NaN | tidal | tidal | 1600 | -22.0000 | 115.0000 | Semikhatov et al., 1999; Thorne and Cutten, 2018; Australian Stratigraphic Units Database | NaN | possibly Mesoproterozoic |
| Paleoproterozoic | Canada | North America | Murky Fm., Et-Then Gp. | stromatolite | NaN | terrestrial | lacustrine | 1600 | 62.2500 | -111.0000 | Hoffman, 1976; Hoffman, 1968; Hofmann, 1969 | NaN | age poorly constrained, possibly Mesoproterozoic |
| Paleoproterozoic | Canada | North America | Parry Bay Fm. | stromatolite | NaN | marine | marine | 1600 | 68.0000 | -107.0000 | Semikhatov et al., 1999; Ielpi et al., 2017; Fraser, 1964 | 10.1080/17445647.2016.1268981 | possibly Mesoproterozoic |
| Paleoproterozoic | China | Asia | Norgong Gp. | stromatolite | NaN | tidal | tidal | 1600 | 41.0000 | 107.0000 | Semikhatov et al., 1999; Liang et al., 1985 | 10.1016/0301-9268(85)90056-7 | Possibly Mesoproterozoic; depositional environment inferred from similarities to other stromatolite assemblages |
| Paleoproterozoic | China | Asia | Obo Gp. | stromatolite | NaN | tidal | tidal | 1600 | 41.0000 | 109.0000 | Semikhatov et al., 1999; Liang et al., 1985 | 10.1016/0301-9268(85)90056-7 | Possibly Mesoproterozoic; depositional environment inferred from similarities to other stromatolite assemblages |
| Paleoproterozoic | India | Asia | Kheinjua Fm., Semri Gp., Vindhyan Sgp. | MISS, stromatolite | wrinkle structures, roll-ups, mat chips, gas domes, multi-directional ripples, petee ridges | tidal | tidal, marine | 1600 | 24.4000 | 81.7000 | Banerjee and Jeevankumar, 2005; Banerjee et al., 2014 | 10.1016/j.sedgeo.2004.12.013; 10.3724/SP.J.1261.2014.00048 | NaN |
| Paleoproterozoic | India | Asia | Kheinjua Fm., Semri Gp., Vindhyan Sgp. | MISS, stromatolite | wrinkle structures, roll-ups, mat chips, gas domes, multi-directional ripples, petee ridges | marine | tidal, marine | 1600 | 24.4000 | 81.7000 | Banerjee and Jeevankumar, 2005; Banerjee et al., 2014 | 10.1016/j.sedgeo.2004.12.013; 10.3724/SP.J.1261.2014.00048 | NaN |
| Paleoproterozoic | India | Asia | Rohtas Fm., Semri Gp., Vindhyan Sgp. | stromatolite | NaN | tidal | tidal | 1600 | 25.0000 | 75.0000 | Bengtson et al., 2009; McKenzie et al., 2011 | 10.1073/pnas.0812460106; 10.1016/j.epsl.2011.10.027 | NaN |
| Paleoproterozoic | India | Asia | Gangolihat Dolomite, Deoban Gp. | stromatolite | NaN | tidal | tidal | 1600 | 29.5000 | 80.0800 | McKenzie et al., 2011; Pant, 1985; Tewari, 1977 | 10.1016/j.epsl.2011.10.027 | NaN |
| Paleoproterozoic | India | Asia | Thalkedar Dolomite, Deoban Gp. | stromatolite | NaN | tidal | tidal | 1600 | 29.5000 | 80.0800 | Kumar, 1980; Singh, 1988; McKenzie, 2011 | 10.1016/0037-0738(88)90007-3; 10.1016/j.precamres.2013.10.006 | NaN |

## Key
| AgeGeologic | Geologic time period (Paleoarchean: 3600−3200 Ma; Mesoarchean: 3200−2800 Ma; Neoarchean: 2800−2500 Ma; Paleoproterozoic 2500−1600 Ma) |
| --- | --- |
| Country | Country(s) in which the units containing evidence for life were found |
| Continent | Continent in which the units containing evidence for life were found |
| RockUnit | Depositional unit in which evidence was found. Specificity was based on the descriptors used by the authors who identified the evidence. When multiple names are used for the same unit (e.g., historical name), the more recent was used. As much as possible, units were identified to the Formation level. |
| EvidenceTypes | Listing of the types of microbialites present in the unit. "MISS" (microbially induced sedimentary structure) is used as a broad category for clastic microbialites similarly to how "MRS" (mat-related structure) is used by Eriksson et al. (2010)\* or how "MISS" is used in Noffke et al. (2022)\*\*, and is not restricted to microbialites found in transgressive/regressive cycles. |
| EvidenceNotes | Notable other features of the microbialties in that unit |
| BroadSetting | The broad depositional setting (marine, tidal, or terrestrial), with lagoons, sabkhas, and mudflats classified as tidal and epeiric seas as marine. Units with multiple broad settings have multiple entries in the dataset, andn the additional settings are noted in the AllDepoEnv column. |
| AllDepoEnv | All depositional environments containing microbialites that are included in this dataset. May not include depositional environments with other types of evidence for life such as microfossils, even if present in the same unit |
| AgeMa | Approximate age of the unit (Ma), determined by source literature |
| LatAppx | Approximate latitude of the sampling site, determined by source literature. Precision varies; some are estimated based on maps. |
| LongAppx | Approximate longitude of the sampling site, determined by source literature. Precision varies; some are estimated based on maps. |
| Sources | List of sources that describe the evidence for microbialites and depositional environment. This is not a comprehensive list of references describing the units or the microbialites within them. Language is noted for sources not in English. |
| SourceDOI | List of DOIs for the sources where available, in the same order as the source list |
| Notes | Any other notes, such as particularly notable uncertainty in geologic time period or depositional environment |
| NaN | NaN |
| \* | Eriksson, P. G., Sarkar, S., Samanta, P., Banerjee, S., Porada, H., & Catuneanu, O. (2010). Paleoenvironmental Context of Microbial Mat-Related Structures in Siliciclastic Rocks. In J. Seckbach & A. Oren (Eds.), Microbial Mats: Modern and Ancient Microorganisms in Stratified Systems (pp. 71–108). Dordrecht: Springer Netherlands. https://doi.org/10.1007/978-90-481-3799-2\_5 |
| \*\* | Noffke, N., Beraldi-Campesi, H., Callefo, F., Carmona, N., Cuadrado, D. G., Homann, M., et al. (2022). Part B, Volume 2, Chapter 5: Microbially Induced Sedimentary Structures (MISS). Treatise Online, 2(162). |