**Electronic Supplementary Materials**

**Table S1.** Summary of published work on stable isotopes of land snail shells worldwide.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Author and Year** **of Publication** | **Journal of Publication** | **Locality / Spatial Range**  | **Geologic Age Range** | **Type of Isotopic Analyses Included and Discussed** |
| Yapp, 1979  | Geochimica et Cosmochimica Acta | North America and Europe | Modern and Holocene | Entire shell δ13C and δ18O  |
| Magaritz and Heller, 1980 | Palaeogeography Palaeoclimatology Palaeoecology | Negev Desert, Southern Israel | Modern and Early Holocene | Entire shell δ18O |
| Magaritz et al., 1981 | Earth and Planetary Science Letters | Israel | Modern | Entire shell δ13C and δ18O |
| Magaritz and Heller, 1983 | Chemical Geology | Israel | Modern | Entire shell and last world spire δ13C and δ18O |
| Francey, 1983 | Earth and Planetary Science Letters | Israel | Modern | Entire shell δ13C |
| Lécolle, 1985 | Chemical Geology | France, Western Europe, Northern Africa | Modern | Entire shell δ18O |
| Leone, 1985 | Palaeogeography Palaeoclimatology Palaeoecology | Jucar River, Spain | Pliocene | Entire shell δ13C and δ18O |
| Abell, 1985 | Chemical Geology | Africa | Modern | Entire shell δ18O |
| Goodfriend and Magaritz, 1987 | Earth and Planetary Science Letters | Southern Levant | Modern | Entire shell δ13C and δ18O |
| Goodfriend, 1988 | Nature | Negev Desert, Southern Israel | Middle Holocene | Shell organic δ13C |
| Goodfriend et al., 1989 | Geochimica et Cosmochimica Acta | South of Israel | Modern | Shell and snail body water δ18O |
| Goodfriend, 1990 | Quaternary Research  | Negev Desert, Southern Israel | Middle Holocene | Entire shell δ13C |
| Goodfriend, 1991 | Quaternary Research  | Negev Desert, Southern Israel | Holocene | Entire shell δ18O |
| Goodfriend, 1992 | Quaternary Science Reviews | An overall review | Quaternary | Entire shell and intrashell δ13C and δ18O  |
| Sharpe et al., 1994 | IHLRWM Proc., ASCE and ANS | Las Vegas, Nevada | Modern | Entire shell δ18O |
| Leng et al., 1998 | The Holocene | Ethiopia, Africa | Modern | Intrashell δ13C and δ18O |
| Goodfriend, 1999 | Quaternary Science Reviews | Eastern Mediterranean | Quaternary | Entire shell δ13C and δ18O |
| Bonadonna et al., 1999 | Palaeogeography Palaeoclimatology Palaeoecology | Pampa, Argentina | Quaternary | Entire shell δ13C and δ18O |
| Leone et al., 2000 | Palaeogeography Palaeoclimatology Palaeoecology | Central Italy | Late Pliocene | Entire shell δ13C and δ18O |
| Goodfriend and Ellis, 2000 | Quaternary International | Texas | Middle-late Holocene | Entire shell and organic tissue δ13C  |
| Yates et al., 2002 | Quaternary International  | British Islands | Holocene | Entire shell δ13C and δ18O |
| Goodfriend and Ellis, 2002 | Geochimica et Cosmochimica Acta | North America (Southern Great Plains) | Modern | Entire shell δ13C and δ18O |
| Stott, 2002 | Earth and Planetary Science Letters | Laboratory experiment | Modern  | Entire shell and organic tissue δ13C  |
| Metref et al., 2003 | Earth and Planetary Science Letters | Laboratory experiment | Modern  | Entire shell and organic tissue δ13C |
| Balakrishnan and Yapp, 2004 | Geochimica et Cosmochimica Acta | Empirical and theoretical model | Modern | Entire shell δ13C and δ18O |
| Zanchetta et al., 2005 | Palaeogeography Palaeoclimatology Palaeoecology | Italian Peninsula | Modern | Entire shell δ18O |
| Balakrishnan et al., 2005b | Quaternary Research  | North America (from Oklahoma to New Mexico) | Modern | Entire shell δ13C and δ18O |
| Balakrishnan et al., 2005a | Quaternary Research  | New Mexico, USA | Early Holocene | Entire shell δ13C and δ18O |
| Zanchetta et al., 2006 | Rivista Italiana di Paleontologia e Stratigrafia | Italy | MIS 6 and MIS 5 | Entire shell δ13C and δ18O |
| Liu et al., 2007 | Chinese Science Bulletin | Chinese Loess Plateau | Modern (field and laboratory control) | Entire shell and organic tissue δ13C  |
| Colonese et al., 2007 | Palaeogeography Palaeoclimatology Palaeoecology | Southern Italy | Late Glacial | Entire shell δ13C and δ18O |
| Baldini et al., 2007 | Palaios | San Salvador, Bahamas | Modern | Entire shell and intrashell δ13C and δ18O |
| De Francesco et al., 2007 | Palaeogeography Palaeoclimatology Palaeoecology | Mendoza, Argentina | Last Glacial | Entire shell δ13C and δ18O |
| Yanes et al., 2008 | Chemical Geology | Eastern Canary Islands | Modern | Entire shell δ13C and δ18O |
| Chiba and Davison, 2009 | Paleontological Research | Ogasawara Islands, Japan | Modern | Entire shell δ13C  |
| Yanes et al., 2009 | Geochimica et Cosmochimica Acta | Tenerife, Canary Islands | Modern | Entire shell δ13C and δ18O |
| Xu et al., 2010 | Radiocarbon | Chinese Loess Plateau | Modern | Entire shell δ13C  |
| Colonese et al., 2010a | Journal of Quaternary Science | Southern Italy | Early-middle Holocene | Entire shell δ13C and δ18O |
| Colonese et al., 2010b | Global & Planetary Change | Southern Italy | Last Glacial-Holocene | Entire shell δ13C and δ18O |
| Kehrwald et al., 2010 | Quaternary Research | Europe (from Belgium to Serbia) | Last Glacial Maximum | Entire shell and intrashell δ18O |
| Yanes et al., 2011b | Quaternary Research | Eastern Canary Islands | Last Glacial-Holocene | Entire shell and intrashell δ13C and δ18O |
| Yanes et al., 2011a | Quaternary International  | Granada, Iberian Peninsula | Early to middle Holocene | Entire shell δ13C and δ18O |
| Colonese et al., 2011 | Quaternary International  | Sicily | Last Glacial-Holocene | Entire shell δ13C and δ18O |
| Zaarur et al., 2011 | Geochimica et Cosmochimica Acta | North America, Caribbean, Europe | Modern | Entire shell δ18O and clumped isotopes |
|  Huang et al., 2012  | Chinese Science Bulletin | Chinese Loess Plateau | Last 75 ka | Entire shell δ13C and δ18O |
| Yanes et al., 2012 | Quaternary Research | Cantabria, Iberian Peninsula | Younger Dryas-Holocene | Entire shell and intrashell δ13C and δ18O |
| Stevens et al., 2012 | Palaeogeography Palaeoclimatology Palaeoecology  | Valsequillo Basin, Central Mexico | Late Pleistocene | Entire shell δ13C and δ18O |
| Eagle et al., 2013 | Proceedings of the National Academy of Sciences | China | Last Glacial Maximum to recent | Entire shell δ18O and clumped isotopes |
| Rangarajan et al., 2013  | Chemical Geology | Bangalore, India | Modern | Intrashell δ18O |
| Colonese et al., 2013 | Quaternary Research | Argolid, Greece | Late Glacial-Holocene | Entire shell δ13C and δ18O |
| Yanes et al., 2013b | Palaeogeography Palaeoclimatology Palaeoecology  | Lanzarote, Canary Islands | Last Glacial-Holocene | Entire shell δ13C and δ18O |
| Yanes et al., 2013d | Quaternary International  | Jaen, Iberian Peninsula | Middle-late Holocene | Entire shell δ13C and δ18O |
| Yanes et al., 2013c | Journal of Quaternary Science | Alicante, Iberian Peninsula | Younger Dryas-Holocene | Entire shell δ13C and δ18O |
| Yanes et al., 2013a | Quaternary Research  | Lanzarote, Canary Islands | Modern | Entire shell and organic tissue δ13C |
| Yanes and Romanek, 2013 | Palaeogeography Palaeoclimatology Palaeoecology | San Salvador, Bahamas | MIS 5e & Mid-Holocene | Entire shell δ13C and δ18O |
| Paul and Mauldin, 2013 | Quaternary International | Texas, North America | Late Holocene | Entire shell δ13C and δ18O |
| Colonese et al., 2014 | Palaeogeography Palaeoclimatology Palaeoecology | Aeolian Archipelago (Sicily) | Modern | Entire shell δ13C and δ18O |
| Yanes et al., 2014 | The Holocene | Ongamira, Central Argentina | Middle-late Holocene | Entire shell and intrashell δ13C and δ18O |
| Zhang et al., 2014 | Biosciences | Laboratory experiment | Modern  | Entire shell and organic tissue δ13C |
| Hassan, 2015 | Chemie der Erde | El Cairo, Egypt | Modern | Entire shell δ13C and δ18O |
| Prendergast et al., 2015 | Chemical Geology | Mediterranean and North Africa | Modern | Entire shell and body fluid δ18O |
| Yanes, 2015 | Quaternary Research | Fairbanks, Alaska and SSI Bahamas | Modern | Entire shell δ13C and δ18O |
| Prendergast et al., 2016 | Quaternary Science Reviews | Libya | Pleistocene | Entire shell δ13C and δ18O |
| Wang et al., 2016  | Geochemistry Geophysics Geosystems | China | Modern | Entire shell δ18O and clumped isotopes |
| Bullard et al., 2017 | Palaeogeography Palaeoclimatology Palaeoecology | Tenerife, Canary Islands | Pleistocene | Entire shell δ18O |
| Prendergast et al., 2017 | Quaternary International  | Eastern Mediterranean | Modern | Entire shell and organic tissue δ13C  |
| Yanes and Fernandez-Lopez-de-Pablo, 2017 | The Holocene | Tarragona, NE Spain | Modern | Shell margin δ13C and δ18O |
| Yanes et al., 2017 | Palaeogeography Palaeoclimatology Palaeoecology | Minnesota | Modern | Entire shell δ18O |
| Ghosh et al., 2017 | Geochemistry, Geophysics, Geosystems | India | Modern and historic | Intrashell δ18O |
| Nash et al., 2018 | Quaternary Research | Illinois | Last Glacial | Entire shell δ13C and δ18O |
| Yanes et al., 2018 | Palaeogeography Palaeoclimatology Palaeoecology | Appalachian Mountains, North America | Modern | Entire shell δ18O and δ13C and organic tissue δ13C and δ15N |

**Table S2.** Oxygen stable isotope values of modern land snails from North America analyzed in this study.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample ID** | **Species** | **Family** | **Lat.****(°N)** | **Long.****(°W)** | **Alt.** **(m a.s.l.)** | **Locality** | **Shell** **δ18O‰****(PDB)** |
| MLS-1 | *Hawaiia minuscula* | Pristilomatidae  | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | -2.1 |
| MLS-2 | *Helicodiscus parallelus* | Helicodiscidae  | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | -2.1 |
| MLS-3 | *Glyphyalinia umbilicata* | Oxychilidae  | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | -2.1 |
| MLS-4 | *Hawaiia minuscula* | Pristilomatidae  | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | -1.8 |
| MLS-5 | *Hawaiia minuscula* | Pristilomatidae  | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | -1.8 |
| MLS-6 | *Nesovitrea dalliana* | Oxychilidae  | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | -1.7 |
| MLS-7 | *Nesovitrea dalliana* | Oxychilidae  | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | -1.7 |
| MLS-8 | *Nesovitrea dalliana* | Oxychilidae  | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | -1.5 |
| MLS-9 | *Nesovitrea dalliana* | Oxychilidae  | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | -1.4 |
| MLS-10 | *Helicodiscus parallelus* | Helicodiscidae  | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | -1.4 |
| MLS-11 | *Hawaiia minuscula* | Pristilomatidae  | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | -1.2 |
| MLS-12 | *Polygyra pustula* | Polygyridae | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | -1.2 |
| MLS-13 | *Nesovitrea dalliana* | Oxychilidae  | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | -1.1 |
| MLS-14 | *Polygyra pustula* | Polygyridae | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | -0.8 |
| MLS-15 | *Glyphyalinia umbilicata* | Oxychilidae  | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | -0.3 |
| MLS-16 | *Polygyra pustula* | Polygyridae | 30.40 | -81.40 | 1 | Fort George Island, North Florida, USA | 1.1 |
| MLS-17 | *Polygyra lithica* | Polygyridae | 36.20 | -92.30 | 183 | Norfolk Bluff, North Arkansas, USA | -3.0 |
| MLS-18 | *Pupoides albilabris* | Pupillidae | 36.20 | -92.30 | 183 | Norfolk Bluff, North Arkansas, USA | -1.8 |
| MLS-19 | *Helicina orbiculata tropica* | Helicinidae | 36.20 | -92.30 | 183 | Norfolk Bluff, North Arkansas, USA | -1.5 |
| MLS-20 | *Pupoides albilabris* | Pupillidae | 36.20 | -92.30 | 183 | Norfolk Bluff, North Arkansas, USA | -1.4 |
| MLS-21 | *Pupoides albilabris* | Pupillidae | 36.20 | -92.30 | 183 | Norfolk Bluff, North Arkansas, USA | -0.7 |
| MLS-22 | *Rabdotus dealbatus* | Orthalicidae  | 36.20 | -92.30 | 183 | Norfolk Bluff, North Arkansas, USA | 0.5 |
| MLS-23 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -7.6 |
| MLS-24 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -7.2 |
| MLS-25 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -7.0 |
| MLS-26 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -6.5 |
| MLS-27 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -6.1 |
| MLS-28 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -6.0 |
| MLS-29 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -6.0 |
| MLS-30 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -5.9 |
| MLS-31 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -5.3 |
| MLS-32 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -5.3 |
| MLS-33 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -5.2 |
| MLS-34 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -5.2 |
| MLS-35 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -5.1 |
| MLS-36 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -5.0 |
| MLS-37 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -4.7 |
| MLS-38 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -4.6 |
| MLS-39 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -4.2 |
| MLS-40 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -3.5 |
| MLS-41 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -3.4 |
| MLS-42 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -3.1 |
| MLS-43 | *Succinea sp.* | Succineidae | 40.00 | -83.80 | 330 | Cedar Bog Preserve, Urbana, Central Ohio, USA | -2.9 |
| MLS-44 | *Hawaiia minuscula* | Pristilomatidae  | 43.40 | -91.80 | 350 | Heritage Farm, North East Iowa, USA | -4.8 |
| MLS-45 | *Hawaiia minuscula* | Pristilomatidae  | 43.40 | -91.80 | 350 | Heritage Farm, North East Iowa, USA | -4.6 |
| MLS-46 | *Anguispira alternata* | Discidae | 43.40 | -91.80 | 350 | Heritage Farm, North East Iowa, USA | -4.2 |
| MLS-47 | *Hawaiia minuscula* | Pristilomatidae  | 43.40 | -91.80 | 350 | Heritage Farm, North East Iowa, USA | -3.9 |
| MLS-48 | *Gastrocopta contracta* | Vertiginidae | 43.40 | -91.80 | 350 | Heritage Farm, North East Iowa, USA | -3.8 |
| MLS-49 | *Hendersonia occulta* | Helicinidae | 43.40 | -91.80 | 350 | Heritage Farm, North East Iowa, USA | -3.7 |
| MLS-50 | *Discus catskillensis* | Discidae | 43.40 | -91.80 | 350 | Heritage Farm, North East Iowa, USA | -3.6 |
| MLS-51 | *Hawaiia minuscula* | Pristilomatidae  | 43.40 | -91.80 | 350 | Heritage Farm, North East Iowa, USA | -3.5 |
| MLS-52 | *Gastrocopta contracta* | Vertiginidae | 43.40 | -91.80 | 350 | Heritage Farm, North East Iowa, USA | -3.2 |
| MLS-53 | *Hendersonia occulta* | Helicinidae | 43.40 | -91.80 | 350 | Heritage Farm, North East Iowa, USA | -3.2 |
| MLS-54 | *Hawaiia minuscula* | Pristilomatidae  | 43.40 | -91.80 | 350 | Heritage Farm, North East Iowa, USA | -3.0 |
| MLS-55 | *Gastrocopta contracta* | Vertiginidae | 43.40 | -91.80 | 350 | Heritage Farm, North East Iowa, USA | -2.6 |
| MLS-56 | *Cochlicopa lubrica* | Cochlicopidae | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -7.0 |
| MLS-57 | *Vallonia gracilicosta* | Vallonidae | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -6.5 |
| MLS-58 | *Discus catskillensis* | Discidae | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -6.5 |
| MLS-59 | *Vallonia gracilicosta* | Vallonidae | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -6.4 |
| MLS-60 | *Nesovitrea binneyana* | Oxychilidae  | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -6.2 |
| MLS-61 | *Discus catskillensis* | Discidae | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -6.1 |
| MLS-62 | *Cochlicopa lubrica* | Cochlicopidae | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -6.1 |
| MLS-63 | *Vallonia gracilicosta* | Vallonidae | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -5.9 |
| MLS-64 | *Nesovitrea binneyana* | Oxychilidae  | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -5.9 |
| MLS-65 | *Vallonia gracilicosta* | Vallonidae | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -5.7 |
| MLS-66 | *Nesovitrea binneyana* | Oxychilidae  | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -5.5 |
| MLS-67 | *Nesovitrea binneyana* | Oxychilidae  | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -5.3 |
| MLS-68 | *Vallonia gracilicosta* | Vallonidae | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -5.2 |
| MLS-69 | *Vallonia gracilicosta* | Vallonidae | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -4.7 |
| MLS-70 | *Discus catskillensis* | Discidae | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -4.7 |
| MLS-71 | *Vallonia gracilicosta* | Vallonidae | 48.60 | -95.60 | 357 | Randeen Ridge, northern Minnesota, USA | -4.6 |
| MLS-72 | *Vallonia gracilicosta* | Vallonidae | 53.40 | -99.30 | 243 | Buffalo Lake, Central Manitoba, Canada | -9.5 |
| MLS-73 | *Vallonia gracilicosta* | Vallonidae | 53.40 | -99.30 | 243 | Buffalo Lake, Central Manitoba, Canada | -9.4 |
| MLS-74 | *Euconulus fulvus* | Euconulidae | 53.40 | -99.30 | 243 | Buffalo Lake, Central Manitoba, Canada | -9.2 |
| MLS-75 | *Vallonia gracilicosta* | Vallonidae | 53.40 | -99.30 | 243 | Buffalo Lake, Central Manitoba, Canada | -9.0 |
| MLS-76 | *Vallonia gracilicosta* | Vallonidae | 53.40 | -99.30 | 243 | Buffalo Lake, Central Manitoba, Canada | -8.9 |
| MLS-77 | *Vallonia gracilicosta* | Vallonidae | 53.40 | -99.30 | 243 | Buffalo Lake, Central Manitoba, Canada | -8.7 |
| MLS-78 | *Discus catskillensis* | Discidae | 53.40 | -99.30 | 243 | Buffalo Lake, Central Manitoba, Canada | -8.7 |
| MLS-79 | *Vallonia gracilicosta* | Vallonidae | 53.40 | -99.30 | 243 | Buffalo Lake, Central Manitoba, Canada | -8.6 |
| MLS-80 | *Discus catskillensis* | Discidae | 53.40 | -99.30 | 243 | Buffalo Lake, Central Manitoba, Canada | -8.6 |
| MLS-81 | *Euconulus fulvus* | Euconulidae | 53.40 | -99.30 | 243 | Buffalo Lake, Central Manitoba, Canada | -8.4 |
| MLS-82 | *Nesovitrea binneyana* | Oxychilidae  | 53.40 | -99.30 | 243 | Buffalo Lake, Central Manitoba, Canada | -8.4 |
| MLS-83 | *Discus catskillensis* | Discidae | 53.40 | -99.30 | 243 | Buffalo Lake, Central Manitoba, Canada | -8.2 |
| MLS-84 | *Discus catskillensis* | Discidae | 53.40 | -99.30 | 243 | Buffalo Lake, Central Manitoba, Canada | -7.8 |
| MLS-85 | *Euconulus fulvus* | Euconulidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -9.3 |
| MLS-86 | *Vertigo modesta modesta* | Vertiginidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -9.2 |
| MLS-87 | *Vertigo modesta modesta* | Vertiginidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -8.8 |
| MLS-88 | *Vertigo modesta modesta* | Vertiginidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -8.6 |
| MLS-89 | *Vertigo modesta modesta* | Vertiginidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -8.4 |
| MLS-90 | *Vertigo modesta modesta* | Vertiginidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -8.4 |
| MLS-91 | *Pupilla muscorum* | Pupillidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -8.3 |
| MLS-92 | *Vertigo modesta modesta* | Vertiginidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -8.3 |
| MLS-93 | *Oxyloma verrilli* | Succineidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -8.2 |
| MLS-94 | *Euconulus fulvus* | Euconulidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -8.0 |
| MLS-95 | *Oxyloma verrilli* | Succineidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -8.0 |
| MLS-96 | *Oxyloma verrilli* | Succineidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -8.0 |
| MLS-97 | *Succinea strigata* | Succineidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -8.0 |
| MLS-98 | *Pupilla muscorum* | Pupillidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -7.9 |
| MLS-99 | *Pupilla muscorum* | Pupillidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -7.9 |
| MLS-100 | *Vertigo modesta modesta* | Vertiginidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -7.6 |
| MLS-101 | *Oxyloma verrilli* | Succineidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -7.5 |
| MLS-102 | *Succinea strigata* | Succineidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -7.5 |
| MLS-103 | *Vertigo modesta modesta* | Vertiginidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -7.1 |
| MLS-104 | *Euconulus fulvus* | Euconulidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -7.1 |
| MLS-105 | *Oxyloma verrilli* | Succineidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -7.0 |
| MLS-106 | *Oxyloma verrilli* | Succineidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -6.9 |
| MLS-107 | *Euconulus fulvus* | Euconulidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -6.6 |
| MLS-108 | *Euconulus fulvus* | Euconulidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -6.5 |
| MLS-109 | *Oxyloma verrilli* | Succineidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -6.3 |
| MLS-110 | *Vertigo modesta modesta* | Vertiginidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -6.2 |
| MLS-111 | *Euconulus fulvus* | Euconulidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -6.0 |
| MLS-112 | *Euconulus fulvus* | Euconulidae | 58.70 | -94.10 | 29 | Goose Greek Road, Churchill, North Manitoba, Canada | -5.9 |

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