**Supplemental Table 4**

Compound specific carbon values of reference materials used in this study. To facilitate comparison with archaeological data, all modern samples, including marine samples, were adjusted for the addition of the effects of post-industrial carbon (Friedli *et al.* 1986).

| **Category** | **Common name** | **Taxa** | **Sample type** | **Period** | **Provenience** | **C16:0 δ13C** | **C18:0 δ13C** | **Reference** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| C4 plant | Corn | Zea mays L. | kernal | Archaeological | Chile | -14.7 | -15.1 | Admiraal et al. 2023 |
| C4 plant | Corn | Zea mays L. | kernal | Archaeological | Chile | -15.2 | -14.6 | Admiraal et al. 2023 |
| C4 plant | Corn | Zea mays L. | kernal | Archaeological | Chile | -15 | -15.4 | Admiraal et al. 2023 |
| C4 plant | Corn | Zea mays L. | kernal | Archaeological | Chile | -14.8 | -15.3 | Admiraal et al. 2023 |
| C4 plant | Corn | Zea mays L. | kernal | Archaeological | Chile | -14.2 | -13.9 | Admiraal et al. 2023 |
| C4 plant | Corn | Zea mays L. | kernal | Modern | Amazonia, Brazil | -17.2 | -17.5 | Admiraal et al. 2023 |
| C4 plant | Corn | Zea mays L. | kernal | Modern | Amazonia, Brazil | -15.9 | -15.7 | Admiraal et al. 2023 |
| C4 plant | Corn | Zea mays L. | kernal | Modern | Amazonia, Brazil | -16.3 | -15.6 | Admiraal et al. 2023 |
| C4 plant | Corn | Zea mays L. | kernal | Modern | Amazonia, Brazil | -15 | -14.5 | Admiraal et al. 2023 |
| C4 plant | Corn | Zea mays L. | cob | Archaeological | Tularosa Cave, NM | -16 | -17.2 | Admiraal et al. 2023 |
| Freshwater | Eel | Anguilla anguilla | Soft tissue | Modern | Denmark | -29 | -29.2 | Craig et al. 2011 |
| Freshwater | Pike | Esox lucius | Soft tissue | Modern | Denmark | -35.6 | -35.8 | Craig et al. 2011 |
| Freshwater | Tench | Tinca tinca | Soft tissue | Modern | Denmark | -28.5 | -29.6 | Craig et al. 2011 |
| Freshwater | Tench | Tinca tinca | Soft tissue | Modern | Denmark | -25 | -27.1 | Craig et al. 2011 |
| Freshwater | Tench | Tinca tinca | Soft tissue | Modern | Denmark | -38 | -37.3 | Craig et al. 2011 |
| Freshwater | Amur minnow | Rhynchocypris lagowskii | Charred deposit | Modern | Japan | -27.43 | -28.13 | Craig et al. 2013 |
| Freshwater | Topmouth gudgeon | Pseudorasbora parva | Charred deposit | Modern | Japan | -26.95 | -26.64 | Craig et al. 2013 |
| Freshwater | Spotbill duck | Anas poecilorhyncha | Charred deposit | Modern | Japan | -27.35 | -27.94 | Craig et al. 2013 |
| Freshwater | Perch | Perca fluviatilis | Soft tissue | Modern | UK | -36.43 | -35.81 | Cramp et al. 2014 |
| Freshwater | Perch | Perca fluviatilis | Soft tissue | Modern | UK | -35.96 | -36.53 | Cramp et al. 2014 |
| Freshwater | Perch | Perca fluviatilis | Soft tissue | Modern | UK | -35.49 | -35.58 | Cramp et al. 2014 |
| Freshwater | Perch | Perca fluviatilis | Soft tissue | Modern | UK | -35.23 | -36.24 | Cramp et al. 2014 |
| Freshwater | Perch | Perca fluviatilis | Soft tissue | Modern | UK | -35.23 | -36.2 | Cramp et al. 2014 |
| Freshwater | Perch | Perca fluviatilis | Soft tissue | Modern | UK | -35.08 | -36.35 | Cramp et al. 2014 |
| Freshwater | Perch | Perca fluviatilis | Soft tissue | Modern | UK | -34.77 | -34.42 | Cramp et al. 2014 |
| Freshwater | Perch | Perca fluviatilis | Soft tissue | Modern | UK | -34.29 | -34.36 | Cramp et al. 2014 |
| Freshwater | Perch | Perca fluviatilis | Soft tissue | Modern | UK | -34.08 | -33.94 | Cramp et al. 2014 |
| Freshwater | Perch | Perca fluviatilis | Soft tissue | Modern | UK | -33.66 | -34.59 | Cramp et al. 2014 |
| Freshwater | Perch | Perca fluviatilis | Soft tissue | Modern | UK | -33.3 | -34.78 | Cramp et al. 2014 |
| Freshwater | Perch | Perca fluviatilis | Soft tissue | Modern | UK | -32.94 | -33.54 | Cramp et al. 2014 |
| Freshwater | Roach | Rutilus sp. | Soft tissue | Modern | UK | -34.87 | -34.98 | Cramp et al. 2014 |
| Freshwater | Roach | Rutilus sp. | Soft tissue | Modern | UK | -34.29 | -35.5 | Cramp et al. 2014 |
| Freshwater | Roach | Rutilus sp. | Soft tissue | Modern | UK | -33.57 | -34.64 | Cramp et al. 2014 |
| Freshwater | Roach | Rutilus sp. | Soft tissue | Modern | UK | -33.4 | -34.39 | Cramp et al. 2014 |
| Freshwater | Roach | Rutilus sp. | Soft tissue | Modern | UK | -33.55 | -34.01 | Cramp et al. 2014 |
| Freshwater | Roach | Rutilus sp. | Soft tissue | Modern | UK | -32.96 | -33.22 | Cramp et al. 2014 |
| Freshwater | Kazakhstan, freshwater fish |  | Soft tissue | Modern | Kazakhstan | -32.85 | -32.9 | Outram et al. 2009 |
| Freshwater | Kazakhstan, freshwater fish |  | Soft tissue | Modern | Kazakhstan | -32.85 | -32.19 | Outram et al. 2009 |
| Freshwater | Kazakhstan, freshwater fish |  | Soft tissue | Modern | Kazakhstan | -32.46 | -32.57 | Outram et al. 2009 |
| Freshwater | Kazakhstan, freshwater fish |  | Soft tissue | Modern | Kazakhstan | -32.36 | -32.1 | Outram et al. 2009 |
| Freshwater | Kazakhstan, freshwater fish |  | Soft tissue | Modern | Kazakhstan | -32.23 | -32.08 | Outram et al. 2009 |
| Freshwater | Kazakhstan, freshwater fish |  | Soft tissue | Modern | Kazakhstan | -32.33 | -30.6 | Outram et al. 2009 |
| Freshwater | Kazakhstan, freshwater fish |  | Soft tissue | Modern | Kazakhstan | -31.8 | -31.57 | Outram et al. 2009 |
| Freshwater | Kazakhstan, freshwater fish |  | Soft tissue | Modern | Kazakhstan | -31.62 | -31.09 | Outram et al. 2009 |
| Freshwater | Kazakhstan, freshwater fish |  | Soft tissue | Modern | Kazakhstan | -31.41 | -30.92 | Outram et al. 2009 |
| Freshwater | Kazakhstan, freshwater fish |  | Soft tissue | Modern | Kazakhstan | -31.31 | -31.3 | Outram et al. 2009 |
| Freshwater |  |  | Soft tissue | Modern | Lake Constance | -33.72 | -32.63 | Spangenberg et al. 2006 |
| Freshwater | Channel catfish | Ictalurus punctatus | Soft tissue | Modern | Canada | -27.41 | -27.43 | Tache and Craig 2015 |
| Freshwater | Channel catfish | Ictalurus punctatus | Soft tissue | Modern | Canada | -26.07 | -25.39 | Tache and Craig 2015 |
| Freshwater | Channel catfish | Ictalurus punctatus | Soft tissue | Modern | Canada | -26.71 | -27.16 | Tache and Craig 2015 |
| Freshwater | Channel catfish | Ictalurus punctatus | Soft tissue | Modern | Canada | -26.15 | -26.21 | Tache and Craig 2015 |
| Freshwater | Channel catfish | Ictalurus punctatus | Soft tissue | Modern | Canada | -24.75 | -24.81 | Tache and Craig 2015 |
| Freshwater | Channel catfish | Ictalurus punctatus | Soft tissue | Modern | Canada | -26.04 | -26.38 | Tache and Craig 2015 |
| Freshwater | Tomcod | Microgadus tomcod | Soft tissue | Modern | Canada | -34.38 | -34.63 | Tache and Craig 2015 |
| Freshwater | Tomcod | Microgadus tomcod | Soft tissue | Modern | Canada | -34.19 | -33.95 | Tache and Craig 2015 |
| Freshwater | Tomcod | Microgadus tomcod | Soft tissue | Modern | Canada | -33.86 | -33.41 | Tache and Craig 2015 |
| Freshwater | Tomcod | Microgadus tomcod | Soft tissue | Modern | Canada | -33.35 | -33.28 | Tache and Craig 2015 |
| Freshwater | Tomcod | Microgadus tomcod | Soft tissue | Modern | Canada | -32.58 | -33.1 | Tache and Craig 2015 |
| Freshwater | Carp | Carassius carassius |  | Modern | UK | -30.8 | -28.8 | Lucquin et al 2016 |
| Freshwater | Pike | Esox lucius |  | Modern | UK | -28.8 | -26.4 | Lucquin et al 2016 |
| Freshwater | Roach | Perca fluviatilis |  | Modern | UK | -31.6 | -29 | Lucquin et al 2016 |
| Freshwater | Crucian Carp | Carassius sp. | Bones | Early Jomon | Japan | -29.15 | -29.3 | Lucquin et al 2016 |
| Freshwater | Crucian Carp | Carassius sp. | Bones | Early Jomon | Japan | -29.18 | -29.64 | Lucquin et al 2016 |
| Freshwater | Crucian Carp | Carassius sp. | Bones | Early Jomon | Japan | -28.27 | -29.91 | Lucquin et al 2016 |
| Freshwater | Crucian Carp | Carassius sp. | Bones | Early Jomon | Japan | -28.76 | -29.08 | Lucquin et al 2016 |
| Freshwater | Crucian Carp | Carassius sp. | Bones | Early Jomon | Japan | -28.64 | -29.26 | Lucquin et al 2016 |
| Freshwater | Scarce |  | Experimental sherd | Modern | Japan | -28.23 | -28.19 | Lucquin et al 2016 |
| Freshwater | Eriocheir | Eriocheir sp. | Experimental sherd | Modern | Japan | -27.33 | -27.94 | Lucquin et al 2016 |
| Freshwater | Freshwater clam |  | Experimental sherd | Modern | Japan | -28.62 | -28.06 | Lucquin et al 2016 |
| Freshwater | Freshwater clam | Cyrenidae | soft tissue | Modern | Japan | -30.3 | -29.7 | Horiuchi et al. 2015 |
| Freshwater | Bleak | Alburnus alburnus | Tissue | Modern | Finland | -27.56 | -26.86 | Pääkkönen et al. 2020 |
| Freshwater | Bleak | Alburnus alburnus | Tissue | Modern | Finland | -34.76 | -33.26 | Pääkkönen et al. 2020 |
| Freshwater | Bleak | Alburnus alburnus | Tissue | Modern | Finland | -35.06 | -35.46 | Pääkkönen et al. 2020 |
| Freshwater | Bleak | Alburnus alburnus | Tissue | Modern | Finland | -36.56 | -36.06 | Pääkkönen et al. 2020 |
| Freshwater | Bleak | Alburnus alburnus | Tissue | Modern | Finland | -36.96 | -35.46 | Pääkkönen et al. 2020 |
| Freshwater | Burbot | Lota lota | Tissue | Modern | Finland | -35.26 | -33.26 | Pääkkönen et al. 2020 |
| Freshwater | Ide | Leuciscus idus | Tissue | Modern | Finland | -34.36 | -32.76 | Pääkkönen et al. 2020 |
| Freshwater | Ide | Leuciscus idus | Tissue | Modern | Finland | -33.76 | -32.16 | Pääkkönen et al. 2020 |
| Freshwater | Northern pike | Esox lucius | Tissue | Modern | Finland | -34.16 | -33.86 | Pääkkönen et al. 2020 |
| Freshwater | Northern pike | Esox lucius | Tissue | Modern | Finland | -34.36 | -33.16 | Pääkkönen et al. 2020 |
| Freshwater | Northern pike | Esox lucius | Tissue | Modern | Finland | -32.66 | -32.26 | Pääkkönen et al. 2020 |
| Freshwater | Perch | Perca fluviatilis | Tissue | Modern | Finland | -35.26 | -34.16 | Pääkkönen et al. 2020 |
| Freshwater | Perch | Perca fluviatilis | Tissue | Modern | Finland | -36.06 | -35.56 | Pääkkönen et al. 2020 |
| Freshwater | Perch | Perca fluviatilis | Tissue | Modern | Finland | -34.26 | -33.46 | Pääkkönen et al. 2020 |
| Freshwater | Perch | Perca fluviatilis | Tissue | Modern | Finland | -35.86 | -34.26 | Pääkkönen et al. 2020 |
| Freshwater | Perch | Perca fluviatilis | Tissue | Modern | Finland | -33.86 | -33.26 | Pääkkönen et al. 2020 |
| Freshwater | Perch | Perca fluviatilis | Tissue | Modern | Finland | -32.96 | -33.26 | Pääkkönen et al. 2020 |
| Freshwater | Perch | Perca fluviatilis | Tissue | Modern | Finland | -32.96 | -33.56 | Pääkkönen et al. 2020 |
| Freshwater | Perch | Perca fluviatilis | Tissue | Modern | Finland | -36.26 | -37.76 | Pääkkönen et al. 2020 |
| Freshwater | Perch | Perca fluviatilis | Tissue | Modern | Finland | -36.16 | -35.66 | Pääkkönen et al. 2020 |
| Freshwater | Pikeperch | Sander lucioperca | Tissue | Modern | Finland | -35.46 | -34.66 | Pääkkönen et al. 2020 |
| Freshwater | Pikeperch | Sander lucioperca | Tissue | Modern | Finland | -31.16 | -30.86 | Pääkkönen et al. 2020 |
| Freshwater | Roach | Rutilus rutilus | Tissue | Modern | Finland | -30.36 | -32.86 | Pääkkönen et al. 2020 |
| Freshwater | Roach | Rutilus rutilus | Tissue | Modern | Finland | -34.96 | -33.86 | Pääkkönen et al. 2020 |
| Freshwater | Vendace | Coregonus albula | Tissue | Modern | Finland | -28.86 | -30.46 | Pääkkönen et al. 2020 |
| Freshwater | Vendace | Coregonus albula | Tissue | Modern | Finland | -30.06 | -28.76 | Pääkkönen et al. 2020 |
| Freshwater | Vendace | Coregonus albula | Tissue | Modern | Finland | -37.76 | -38.76 | Pääkkönen et al. 2020 |
| Freshwater | Vendace | Coregonus albula | Tissue | Modern | Finland | -29.16 | -27.76 | Pääkkönen et al. 2020 |
| Freshwater | Arctic grayling | Thymallus arcticus | tissue | Modern | Alaska | -41.5 | -39.6 | Choy et al 2016 |
| Freshwater | Burbot | Lota lota | tissue | Modern | Alaska | -27.5 | -28.8 | Choy et al 2016 |
| Freshwater | Burbot | Lota lota | tissue | Modern | Alaska | -30.4 | -29.4 | Choy et al 2016 |
| Freshwater | Northern pike | Esox lucius | tissue | Modern | Alaska | -33.5 | -31.3 | Choy et al 2016 |
| Freshwater | Northern pike | Esox lucius | tissue | Modern | Alaska | -36.4 | -36.2 | Choy et al 2016 |
| Freshwater | Northern pike | Esox lucius | tissue | Modern | Alaska | -36.6 | -35.6 | Choy et al 2016 |
| Freshwater | Sheefish | Stenodus nelma | tissue | Modern | Alaska | -34.6 | -35 | Choy et al 2016 |
| Freshwater | Bering cisco | Coregonus laurettae | tissue | Modern | Alaska | -35.2 | -34.9 | Choy et al 2016 |
| Wild ruminants | Red deer | Cervus elaphus | Bone (mandible) | Modern | Poland, Slowinski National Park | -28.1 | -31.9 | Craig et al. 2012 |
| Wild ruminants | Red deer | Cervus elaphus | Bone (mandible) | Modern | Poland, Slowinski National Park | -27.8 | -31.5 | Craig et al. 2012 |
| Wild ruminants | Red deer | Cervus elaphus | Bone (mandible) | Modern | Poland, Slowinski National Park | -28.8 | -33 | Craig et al. 2012 |
| Wild ruminants | Red deer | Cervus elaphus | Bone (mandible) | Modern | Poland, Slowinski National Park | -30.4 | -34.1 | Craig et al. 2012 |
| Wild ruminants | Red deer | Cervus elaphus | Bone (mandible) | Modern | Poland, Slowinski National Park | -29.5 | -33.1 | Craig et al. 2012 |
| Wild ruminants | Red deer | Cervus elaphus | Bone (mandible) | Modern | Poland, Slowinski National Park | -29.2 | -33.4 | Craig et al. 2012 |
| Wild ruminants | Red deer | Cervus elaphus | Bone (mandible) | Modern | Poland, Slowinski National Park | -30.8 | -33.4 | Craig et al. 2012 |
| Wild ruminants | Red deer | Cervus elaphus | Bone (mandible) | Modern | Poland, Slowinski National Park | -29.9 | -33.5 | Craig et al. 2012 |
| Wild ruminants | Red deer | Cervus elaphus | Bone (mandible) | Modern | Poland, Slowinski National Park | -29.3 | -32.7 | Craig et al. 2012 |
| Wild ruminants | Red deer | Cervus elaphus | Tissue | Modern | Poland, Slowinski National Park | -29.8 | -33.4 | Craig et al. 2012 |
| Wild ruminants | Red deer | Cervus elaphus | Adipose | Modern | UK | -28.7 | -30.1 | Dudd 1999 |
| Wild ruminants | Red deer | Cervus elaphus | Adipose | Modern | UK | -29.2 | -30.9 | Dudd 1999 |
| Wild ruminants | Red deer | Cervus elaphus | Adipose | Modern | UK | -29.8 | -30.1 | Dudd 1999 |
| Wild ruminants | Red deer | Cervus elaphus | Adipose | Modern | UK | -29.2 | -32.5 | Dudd 1999 |
| Wild ruminants | Red deer | Cervus elaphus | Adipose | Modern | UK | -28.4 | -33.6 | Dudd 1999 |
| Wild ruminants | Red deer | Cervus elaphus | Adipose | Modern | UK | -31.1 | -34.2 | Dudd 1999 |
| Wild ruminants | Red deer | Cervus elaphus | Adipose | Modern | UK | -31.2 | -34 | Dudd 1999 |
| Wild ruminants | Red deer | Cervus elaphus | Tissue | Modern | Local forest, Susch, Switzerland | -31.69 | -33.86 | Spangenberg et al. 2006 |
| Wild ruminants | Moose | Alces alces | Bone | Modern | Canada | -29.12 | -32.62 | Tache and Craig 2015 |
| Wild ruminants | Moose | Alces alces | Bone | Modern | Canada | -30.27 | -32.8 | Tache and Craig 2015 |
| Wild ruminants | Moose | Alces alces | Soft tissue | Modern | Canada | -29.3 | -32.21 | Tache and Craig 2015 |
| Wild ruminants | Moose | Alces alces | Soft tissue | Modern | Canada | -29.43 | -31.37 | Tache and Craig 2015 |
| Wild ruminants | White-tailed deer | Odocoileus virginianus | Bone | Modern | Canada | -29.32 | -31.01 | Tache and Craig 2015 |
| Wild ruminants | White-tailed deer | Odocoileus virginianus | Soft tissue | Modern | Canada | -29.65 | -31.51 | Tache and Craig 2015 |
| Wild ruminants | White-tailed deer | Odocoileus virginianus | Soft tissue | Modern | Canada | -29.83 | -30.28 | Tache and Craig 2015 |
| Wild ruminants | Hokkaido deer | Cervus sp. | Experimental sherd | Modern | Japan | -28.74 | -28.8 | Lucquin et al 2016 |
| Wild ruminants | Sika deer | Cervus nippon | Experimental sherd | Modern | Japan | -28.58 | -30.21 | Lucquin et al 2016 |
| Wild ruminants | Hokkaido deer | Cervus sp. | Experimental sherd | Modern | Japan | -31.12 | -33.46 | Lucquin et al 2016 |
| Wild ruminants | Japanese serow | Capricornis crispus | Experimental sherd | Modern | Japan | -32.46 | -34.11 | Lucquin et al 2016 |
| Wild ruminants | Sika deer | Cervus nippon | Experimental sherd | Modern | Japan | -28.97 | -32.53 | Lucquin et al 2016 |
| Wild ruminants | Japanese serow | Capricornis crispus | Tissue | Modern | Japan | -32.44 | -33.74 | Lucquin et al 2016 |
| Wild ruminants | Sika deer (Nagano) | Cervus nippon | Tissue | Modern | Japan | -32.83 | -36.03 | Lucquin et al 2016 |
| Wild ruminants | Red deer | Cervus elaphus | Tissue | Modern | UK | -32.49 | -34.14 | Lucquin et al 2016 |
| Wild ruminants | Red deer | Cervus elaphus | Experimental sherd | Modern | UK | -32.37 | -34.53 | Lucquin et al 2016 |
| Wild ruminants | Deer | Cervus sp. | Skin | Modern |  | -24.86 | -25.76 | Spangenberg et al. 2010 |
| Wild ruminants | Mule Deer leather | Odocoileus hemionus | Skin | Modern | North America | -25.66 | -25.16 | Spangenberg et al. 2010 |
| Wild ruminants | Chamois | Rupicapra rupicapra | Skin | Modern | Switzerland | -27.16 | -26.56 | Spangenberg et al. 2010 |
| Wild ruminants | Red deer | Cervus elaphus | Skin | Modern | Switzerland | -30.56 | -33.06 | Spangenberg et al. 2010 |
| Wild ruminants | Japanese deer (Kumamoto) | Cervus nippon | Fresh | Modern | Japan | -29 | -32.4 | Horiuchi et al. 2015 |
| Wild ruminants | Japanese Hokkaido deer | Cervus nippon yesoensis | Fresh | Modern | Japan | -24.7 | -26.6 | Horiuchi et al. 2015 |
| Wild ruminants | Eurasian elk | Alces alces | Tissue | Modern | Finland | -30.26 | -32.66 | Pääkkönen et al.2020 |
| Wild ruminants | Eurasian elk | Alces alces | Tissue | Modern | Finland | -29.46 | -31.06 | Pääkkönen et al.2020 |
| Wild ruminants | Eurasian elk | Alces alces | Tissue | Modern | Finland | -29.26 | -31.46 | Pääkkönen et al.2020 |
| Wild ruminants | Eurasian elk | Alces alces | Tissue | Modern | Finland | -30.96 | -32.86 | Pääkkönen et al.2020 |
| Wild ruminants | Reindeer | Rangifer tarandus | Tissue | Modern | Finland | -24.26 | -27.06 | Pääkkönen et al.2020 |
| Wild ruminants | Reindeer | Rangifer tarandus | Tissue | Modern | Finland | -24.16 | -27.06 | Pääkkönen et al.2020 |
| Wild ruminants | Wild forest reindeer | Rangifer tarandus fennicus | Tissue | Modern | Finland | -25.26 | -28.36 | Pääkkönen et al.2020 |
| Wild ruminants | Wild forest reindeer | Rangifer tarandus fennicus | Tissue | Modern | Finland | -24.96 | -26.76 | Pääkkönen et al.2020 |
| Wild ruminants | Wild forest reindeer | Rangifer tarandus fennicus | Tissue | Modern | Finland | -25.86 | -27.06 | Pääkkönen et al.2020 |
| Wild ruminants | Moose | Alces alces | tissue | Modern | Alaska | -31.4 | -32.5 | Choy et al 2016 |
| Wild ruminants | Roe deer adipose |  |  | Modern | Germany | -25.3 | -31.3 | Spiteri 2012 |
| Wild ruminants | Red deer adipose |  |  | Modern | Germany | -25.7 | -26.9 | Spiteri 2012 |
| Wild ruminants | Roe deer | Capreolus capreolus | Bone | Mesolithic/Neolithic | Denmark | -29.2 | -29.7 | Colonese et al. 2015 |

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