**Cave Bear isotope chart**

**Notes:**

How to interpret the notation🡪the subscript tells you the source of the isotope. For δ18OCO3 the source of the oxygen (O) isotope is CO3, which is carbonate. Sometimes they write it as δ18Ocarb

To be clear: δ18OCO3 is the same as δ18Ocarb, and CO3 = Carbonate

**Chart to fill in for Results (section 3)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Isotope | Source | Source animal? | Result | Interpretation |
| δ18OCO3 | Carbonate in bone | Modern grizzly | (s3.2) Larger than average values for δ18OH20  Covaried positively with env. Water (δ18OH20) | Carbonate in bone values can also be used as a measure of water resources, hibernation does not obscure the water resources used by the animal (s3.2) |
| δ18OH20 | Apatite in bone | Modern grizzly | (s3.2) Covaried positively with δ18OCO3 | Isotopic signature of different water resources reflected in apatite δ18O (s3.2) |
| δ 13Ccoll |  |  | (s3.3) |  |
| δ 15Ncoll |  |  | (s3.3) |  |
| δ 13CCO3 |  |  | (s3.4) |  |
| δ 13CCO3(VSMOW) |  |  | (s3.4) |  |
| δ18OCO3(vsmow) |  |  | (s3.4) |  |
| δ18OPO4 |  |  | (s3.4) |  |