

Supplementary Materials

Detrital Zircon Provenance Sources for the Badong and Yingzuishan Formations.

Grains Older Than 2600 Ma. – Sample 16-1-15-3 contained only 2 grains in this age range, and sample 17-1-15-1A did not yield any (Fig. 7). The only potential nearby source known for these zircons is the Taihua Supergroup within the QD belt. The orogen is currently located north of the NCC-SCC suture zone, suggesting a northern provenance (Figs. 11; e.g., Ni et al., 2014).

Grains 2300–2600 Ma. – There were only 2 grains in each sample in this range (Fig. 7). Zhu et al. (2011) argued that some terranes in the Kuanping Group of the QD belt could be dated to 2300–2600 Ma. Numerous additional sources have been suggested for zircons of this age, such as basement rock beneath the SCC (2300 – 2500 Ma; Zeng and Yan, 2014). The NCC has many exposures that have been dated to approximately 2500 Ma, and which could also have supplied some of these zircon grains (e.g. Zhao and Cawood, 2012). Due to the small subsample size, it is impossible to constrain their likely source.

Grains 2050–2300 Ma. – *Lotosaurus* Quarry zircon grains in this range are probably attributable to regional events in the NCC. Sample 16-1-15-3 yielded two grains in this age bracket, and sample 17-1-15-1A only yielded one (Fig. 7). Potential sources for these grains include lamproites in Jinshan (1900–2100 Ma; Zheng et al., 2006) and the Shuidigou Group of the Huaxing Block (2100–2300 Ma; e.g. Chen and Fu, 1992). The Songyang Orogeny also occurred in the NCC around 2150 Ma, potentially supplying some zircon grains (Chen and Zhao, 1997). With only three zircons in this age range it is difficult to adequately assess provenance, but a northern source is most plausible.

Grains 1550–2050 Ma. – Zircon grains in this range are generally attributed to the assembly and breakup of the Columbia supercontinent (e.g. Liu et al., 2014). Sample 16-1-15-3 yielded 10 grains and sample 17-1-15-1A yielded three grains in this age range (Fig. 7). Grains in this age bracket are common in southern China, and have many possible sources on both the NCC and the SCC; here we only list a few of the possible terranes, and focus our discussion on more general trends. Possible sources include the Xiong’er Group along the southern margin of the NCC (e.g. He et al., 2009), as well as the Huangling complex and Zhejiang Province, which are both known to have terranes with ages of 1800–1900 Ma (e.g. Yu et al., 2009). The Yichang region has also been shown to have outcrops dated to 1900–2050 Ma (e.g. Zhang et al., 2006).

All zircon grains with ages of 1800–2000 Ma are likely to have been transported from the NCC, since the southern SCC shows no evidence of erosion during this time (e.g. Yan et al., 2011). Additionally, modern sediment transported from the southern SCC by the Min River contains no zircons in the 1800–2000 Ma age range (Yokoyama et al., 2007). Based on this, it seems most likely that the older grains in this range (1800–2050 Ma) were sourced from the southern margin of the NCC, although minor sources in the SCC, and QD belt cannot be entirely ruled out. The variety of potential source terranes makes it difficult to say whether these grains originated on the NCC or the SCC.

Grains 1200–1550 Ma. – Zircons in this age range are rare ($n = 4$) (Fig. 7). Outcrops in the Gaoshanhe and Yunmengshan regions of the northern QD belt have been shown to have ages of roughly 1200–1550 Ma (Chen and Fu, 1992). Together with the geographic proximity of the northern QD belt to the *Lotosaurus* Quarry, these dates make the northern QD belt a likely source area for this set of zircon grains, which would imply collision and southward fluvial drainage from the suture zone by the time the bonebed was deposited.

Grains 700–1200 Ma. – Sample 16-1-15-3 yielded 26 grains in this range, and sample 17-1-15-1A yielded nine (Fig. 7). Zircons dated to this time are often associated with the amalgamation and breakup of the Rodinia Supercontinent (e.g. Nance et al., 2014), but

numerous smaller-scale events have also been suggested as possible sources (e.g. Weislogel et al., 2010; Wang et al., 2013). The Jiangnan Orogen in the SCC, the result of an Alps-type collision, has been shown to include many exposures of rock with ages of 800–900 Ma (e.g. Su et al., 2014). Furthermore, the Yangtze Orogeny, which spanned 750–850 Ma and occurred within the SCC, has been suggested as a likely source for zircons in the SCC (e.g. Yan et al., 2011).

Zhou et al. (2016) suggested that older zircons within this age range were derived from the basement rock of the QD belt. Taken together, the available information suggests that the younger zircons (700–950 Ma) were sourced primarily from the Yangtze and Jiangnan orogens and the older zircons (950–1200 Ma) from the nearby QD belt.

Grains 400–650 Ma. – Zircon grains from this time range are often attributed to the assembly of Gondwana, but numerous small-scale events may also have contributed to this zircon population (Nance et al., 2014). Sample 16-1-15-3 yielded 31 zircon grains in this age range, and sample 17-1-15-1A yielded four (Fig. 7). There are many possible source terranes, associated with the Caledonian Orogeny (410–460 Ma) and the Kwangian Orogeny (400–500 Ma), across the SCC and QD belt (Yan et al., 2011; Su et al., 2014).

Additional potential sources for these zircons include numerous intrusions and granitoids with ages of 400–650 Ma known from the QD belt, as well as a similarly-aged tuff in the SCC (Zhou et al., 2004, 2016). Assessing the exact provenance of the grains is difficult at the present time given that all these terranes are potential sources within the regional watershed, and that multiple sources may have contributed zircons to the sample.

Grains 350–400 Ma. – Sample 16-1-15-3 yielded 10 grains with ages from 350–400 Ma, and sample 17-1-15-1A yielded six (Fig. 7). Between 350 and 450 Ma, a nearby subduction event between the northern and southern QD belts led to the closure of the Shangdan Ocean, producing ophiolites (the Shangdan belt) and granitoids (the Piaochi plutons; e.g. Dong et al., 2011). Furthermore, an accretionary wedge complex known from the Liuling and Sujahe regions has been dated to 310–400 Ma (Weislogel et al., 2010). Zircons in this sample could have been sourced from any of these terranes. However, the fact that the terranes are all roughly within the QD belt suggests connectivity between the two landmasses and southward fluvial transport.

Grains 200–350 Ma. – Zircon grains with ages of 200–350 Ma can generally be attributed to magmatism that occurred during the assembly of Pangea (Nance et al., 2014). In sample 16-1-15-3 there were 41 grains in this age range, and the YSG was determined to be 231.6 Ma (Fig. 7). In sample 17-1-15-1A there were 14 grains in this age range, and the YSG was determined to be 248.5 Ma (Fig. 7). Granitic plutons in the QD belt (225–307 Ma; Zhou et al., 2016) and throughout the Songpan-Ganzi complex (230–250 Ma; Weislogel et al., 2010) are possible sources for these grains. Rifting also occurred in the Songpan-Ganzi complex from 250–280 Ma (Weislogel et al., 2006). Some exposures in the south QD belt have also been shown to be 300–345 Ma old (Weislogel et al., 2010). Lastly, Zhang et al. (2015) concluded that it was unlikely that source rocks for sediments deposited on the northern part of the SCC in the Triassic were located south of the depocenters, and that the sediments came only from northern and eastern source areas. Therefore, the most likely source for the Triassic sediments is the southern part of the QD belt.

The Sangzhi region experienced uplift during the Late Triassic, supplying sediment to more southerly parts of the SCC and blocking sediment transport from the southern part of the NCC (Zhang et al., 2015). This is thought to have occurred following the closure of the Tethys Sea and the collision between the NCC and SCC, which allowed for the exchange of sediment and terrestrial organisms between the NCC and SCC (Su et al., 2014). Previous studies based on zircon analysis of metamorphic basement rock suggest collision between 258.6 ± 6 Ma and 243 ± 5 Ma, coincident with the Indosinian Orogeny (e.g., Niu et al.,

2011). However, our lower intercept age range for the *Lotosaurus* Quarry is 238.9–229.3 Ma. The minimal overlap between the suspected collision date and our estimates for the deposition of the *Lotosaurus* Quarry supports the interpretation that the Quarry formed after a connection had been made between the NCC and the SCC

Supplementary Table 1. Measurements of excavated bonebed elements

| Grid | Element | Identification | Orientation | Length (cm) | Angle (°) |
|------|---------|-----------------|-------------|-------------|-----------|
| R1C1 | | | | | |
| R1C2 | 1 | Rib | | 15 | 170 |
| | 2 | Rib | | 4 | 150 |
| R1C3 | 1 | Rib | | 15 | 180 |
| R1C4 | 1 | Tibia | | 26 | 165 |
| R2C1 | 1 | Scapula | Right | 36 | 30 |
| R2C2 | 1 | Rib | | 40 | 55 |
| R2C3 | 1 | Centrum | | | |
| | 2 | Fibula | Left | 27 | 45 |
| | 3 | Rib | | 19 | 115 |
| | 4 | Sacrum+Ilium | Right Ilium | 21 | 140 |
| R2C4 | 1 | Ribs+Vertebrae | | 70 | 60 |
| | 2 | Interclavicle | | 30 | 145 |
| | 3 | Ulna | | 19 | 145 |
| | 4 | Tibia | | 8 | 55 |
| | 5 | Centrum | | 5 | |
| | 6 | Pubis | Left | 24 | 67 |
| R2C5 | 1 | Femur | Left | 34 | 150 |
| | 2 | Rib | | 27 | 170 |
| | 3 | Ulna | | 25 | 50 |
| | 4 | Scapulocoracoid | Left | 43 | 155 |
| R2C6 | | | | | |
| R3C1 | | | | | |
| R3C2 | 1 | Femur | Left | 42 | 40 |
| | 2 | Ischium | Left | 30 | 150 |
| | 3 | Rib | | 15 | 30 |
| | 4 | Rib | | 10 | 30 |
| | 5 | Rib | | 9 | 30 |
| | 6 | Rib | | 12 | 30 |
| | 7 | Rib | | 17 | 30 |
| | 8 | Rib | | 18 | 30 |
| | 9 | Fibula | | 26 | 74 |
| | 10 | Tibia | | 15 | 74 |
| R3C3 | 1 | Rib | | 43 | 90 |
| R3C4 | 1 | Coracoid | Right | 20 | 165 |
| | 2 | Rib | | 27 | 120 |
| | 3 | Rib | | 12 | |
| | 4 | Rib | | 35 | 90 |
| | 5 | Long bone | | 5 | 65 |
| R3C5 | 1 | Rib | | 25 | 140 |
| | 2 | Rib | | 12 | 20 |
| | 3 | Rib | | 14 | 20 |
| | 4 | Rib | | 17 | 160 |
| | 5 | Rib | | 10 | 165 |

| | | | | | |
|-------|----|-------------------------|-------|----|-----|
| R3C6 | 1 | Tibia | | 27 | 75 |
| | 2 | Femur | Right | 41 | 20 |
| | 3 | Ulna | | 14 | 80 |
| | 4 | Metacarpal/Metatarsal | | 10 | 70 |
| | 5 | Metacarpal/Metatarsal | | 8 | 90 |
| | 6 | Vertebra | | | |
| | 7 | Scapula | Left | 31 | 90 |
| | 8 | Scapula+Coracoid | Right | 40 | 35 |
| | 9 | Gastralia | | 10 | 0 |
| | 10 | Fibula | | 17 | 50 |
| | 11 | Rib Fragment | | 27 | 50 |
| | 12 | Vertebra | | 6 | 170 |
| | 13 | Vertebra | | 16 | 15 |
| | 14 | Gastralia | | 7 | 180 |
| R3C7 | 1 | Scapula | Left | 36 | 110 |
| | 2 | Ulna | | 18 | 135 |
| | 3 | Rib | | 22 | 160 |
| | 4 | Humerus | Right | 24 | 85 |
| | 5 | Scapula | | 31 | 85 |
| | 6 | Rib | | 43 | 115 |
| | 7 | Caudal Vertebrae | | 19 | 175 |
| | 8 | Rib | | 34 | 60 |
| | 9 | Gastralia(5-6,parallel) | | 10 | 7 |
| | 10 | Pubis | | | |
| | 11 | Flat Fragment | | 10 | |
| | 12 | Metacarpal/Metatarsal | | 7 | 150 |
| | 13 | | | 2 | |
| | 14 | Metacarpal/Metatarsal | | 10 | 150 |
| | 15 | 5th Metatarsal | | 4 | |
| | 16 | Rib | | 17 | 170 |
| R3C8 | 1 | Rib | | 17 | 18 |
| | 2 | Rib | | 14 | 24 |
| | 3 | Coracoid | Right | 20 | 32 |
| | 4 | Radius | | 23 | 92 |
| | 5 | <i>Indet</i> | | | |
| | 6 | Metacarpal/Metatarsal | | 10 | 160 |
| | 7 | Metacarpal/Metatarsal | | 9 | 0 |
| | 8 | Metacarpal/Metatarsal | | 10 | 30 |
| | 9 | Phalanx | | 3 | 25 |
| | 10 | Phalanx | | 4 | 40 |
| | 11 | Phalanx | | 3 | 40 |
| | 12 | Metacarpal/Metatarsal | | 10 | 65 |
| | 13 | Metacarpal/Metatarsal | | 9 | 65 |
| | 14 | Phalanx | | 3 | |
| R3C9 | | | | | |
| R3C10 | | | | | |
| R3C11 | | | | | |

| | | | | | | |
|-------|----|--|--------------------------|-------|-------|-----|
| R3C12 | 1 | | Ulna | Right | 25 | 150 |
| | 2 | | Qudratojugal | Left | 13 | |
| | 3 | | Rib | | 23 | 140 |
| R4C1 | | | | | | |
| R4C2 | 1 | | Rib | | 18 | 90 |
| | 2 | | Fragment | | 10 | 175 |
| | 3 | | Long bone | | 11 | 175 |
| | 4 | | Coracoid | Right | 20 | 130 |
| | 5 | | Radius | Right | 22 | 65 |
| | 6 | | Ulna | Right | 25 | 65 |
| | 7 | | Tibia | | 24 | 35 |
| | 8 | | Pubis | | 18 | 45 |
| | 9 | | Scapula | Right | 14 | 120 |
| R4C3 | 1 | | Vertebrae(2) | | 10 | 170 |
| | 2 | | Radius | | 25 | 105 |
| | 3 | | Coracoid | | 20 | 105 |
| R4C4 | 1 | | Ulna | Right | 19 | 5 |
| | 2 | | Rib | | 11 | 175 |
| | 3 | | Rib | | 32 | 179 |
| | 4 | | Rib | | 17 | 170 |
| | 5 | | Vertebrae(2) | | 7 | 10 |
| | 6 | | Calcaneum | Right | 7 | |
| | 7 | | Centrum | | 4 | |
| | 8 | | Centrum | | 4 | |
| | 9 | | Rib | | 9 | 40 |
| R4C5 | 1 | | Centrum | | 4 | |
| | 2 | | Centrum | | 4 | |
| | 3 | | Femur | Right | 18 | |
| | 4 | | Centrum | | 3 | |
| | 5 | | Rib | | 30 | 170 |
| | 6 | | Fibula | Right | 28 | |
| | 7 | | Rib | | 14 | 150 |
| | 8 | | Rib | | 24 | 80 |
| | 9 | | Femur | | 23 | 10 |
| | 10 | | Vertebra | | 6 | |
| R4C6 | 1 | | 3 Metatarsal+2 Phalanges | | 9,8,7 | 170 |
| | 2 | | Rib | | 10 | 15 |
| | 3 | | Rib | | 10 | 90 |
| | 4 | | Rib | | 39 | 5 |
| | 5 | | Rib | | 28 | 170 |
| | 6 | | Rib | | 29 | 100 |
| | 7 | | Rib | | 40 | 40 |
| | 8 | | Rib | | 34 | 40 |
| | 9 | | Rib | | 39 | 50 |
| | 10 | | Rib | | 20 | 35 |
| | 11 | | Rib | | 42 | 15 |
| | 12 | | Rib | | 39 | 15 |

| | | | | | |
|------|----|-----------------------------|-------|----|-----|
| | 13 | Rib | | 33 | 75 |
| | 14 | Rib | | 16 | 80 |
| | 15 | Rib | | 27 | 65 |
| | 16 | Rib | | 22 | 35 |
| | 17 | Rib | | 14 | 40 |
| | 18 | Rib | | 16 | 80 |
| | 19 | Rib | | 7 | 120 |
| | 20 | Long bone | | 6 | 85 |
| | 21 | Vertebra | | | |
| | 22 | Coracoid | Left | 19 | 90 |
| | 23 | Scapula | | 12 | 0 |
| | 24 | Scapula | | 17 | 0 |
| | 25 | Ulna | Left | 23 | 170 |
| | 26 | Vertebrae(3) | | 13 | 165 |
| | 27 | Metacarpal/metatarsal | | 3 | 105 |
| | 28 | Vertebrae(2) | | 6 | 110 |
| | 29 | Vertebrae with neural spine | | 39 | 30 |
| | 30 | Vertebra | | 6 | |
| | 31 | Long bone | | 9 | 100 |
| | 32 | Metacarpal/Metatarsal | | 9 | 115 |
| | 33 | Rib | | 14 | 65 |
| | 34 | Rib | | 19 | 45 |
| | 35 | Scapula | | | |
| R4C7 | 1 | Fibula | Left | 25 | 20 |
| | 2 | Tibia | Left | 25 | 0 |
| | 3 | Rib | | 17 | 140 |
| | 4 | Metacarpal/Metatarsal | | 9 | 5 |
| | 5 | Rib | | 36 | 170 |
| | 6 | Scapula+Coracoid | Right | 19 | 175 |
| | 7 | Rib | | 40 | 70 |
| | 8 | Metacarpal/Metatarsal | | 10 | 175 |
| | 9 | Rib | | 45 | 50 |
| | 10 | Metacarpal/Metatarsal | | 9 | 145 |
| | 11 | Metacarpal/Metatarsal | | 10 | 50 |
| | 12 | Fibula | Right | 26 | 35 |
| | 13 | Fibula | Right | 26 | 165 |
| | 14 | Femur | Right | 39 | 160 |
| | 15 | Metacarpal/Metatarsal | | 9 | 10 |
| | 16 | Tibia | | 86 | 40 |
| | 17 | Scapula | Left | 23 | 20 |
| R4C8 | 1 | Ulna | | 18 | 50 |
| | 2 | Long bone | | 10 | 50 |
| | 3 | Scapula | | 15 | 90 |
| | 4 | Ischium | Left | 24 | 170 |
| | 5 | Femur | Right | 40 | 0 |
| | 6 | Rib | | 10 | 20 |
| | 7 | Rib | | 17 | 170 |

| | | | | | |
|-------|----|------------------------------|-------|----|-----|
| | 8 | Rib | | 40 | 160 |
| | 9 | Metacarpal/Metatarsal | | 8 | 0 |
| | 10 | Ulna | Left | 17 | 170 |
| | 11 | Interclavicle | | 19 | 85 |
| | 12 | Phalanx | | 3 | 70 |
| | 13 | Metacarpal/Metatarsal | | 8 | 0 |
| | 14 | Gastralia(several) | | | |
| R4C9 | 1 | Vertebrae with neural spines | | 18 | 25 |
| | 2 | Rib | | 10 | 170 |
| | 3 | Rib | | 11 | 25 |
| | 4 | Rib | | 40 | 0 |
| | 5 | Long bone | | 8 | 160 |
| | 6 | Coracoid | Right | 20 | 140 |
| | 7 | Ischium | | 16 | 120 |
| | 8 | Vertebrae(2) | | 6 | 80 |
| | 9 | Metacarpal/Metatarsal | | 9 | 15 |
| | 10 | Astragalus | | 7 | |
| | 11 | Metacarpal/Metatarsal | | 10 | 10 |
| | 12 | Metacarpal/Metatarsal | | 10 | 10 |
| | 13 | Tibia | | 24 | 170 |
| | 14 | Fibula | Right | 24 | 135 |
| | 15 | Fibula | Left | 23 | 155 |
| | 16 | Rib | | 14 | 60 |
| | 17 | Rib | | 34 | 145 |
| | 18 | Long bone | | | |
| R4C10 | 1 | Rib | | 28 | 167 |
| | 2 | Rib | | 23 | 163 |
| | 3 | Rib | | 15 | 144 |
| | 4 | Vertebra with neural spine | | 19 | 56 |
| | 5 | Phalanx | | 7 | 5 |
| | 6 | <i>Indet</i> | | | |
| | 7 | Nerual spines | | 30 | 130 |
| | 8 | Rib | | 17 | 88 |
| | 9 | Rib | | 12 | 95 |
| | 10 | Metacarpal/Metatarsal | | 6 | 141 |
| | 11 | Tibia | | 8 | 35 |
| | 12 | Long bone | | 5 | 163 |
| | 13 | Calcaneum | Left | 7 | 153 |
| | 14 | <i>Indet</i> | | 4 | |
| | 15 | Metacarpal/Metatarsal | | 8 | 128 |
| | 16 | Metacarpal/Metatarsal | | 7 | 130 |
| | 17 | Metacarpal/Metatarsal | | 4 | 60 |
| | 18 | Metacarpal/Metatarsal | | 6 | 60 |
| | 19 | Phalanx | | 3 | 77 |
| | 20 | Phalanx | | 3 | 73 |
| | 21 | <i>Indet</i> | | 6 | 8 |
| R4C11 | 1 | Rib | | 18 | 54 |

| | | | | | |
|-------|----|-----------------------|-------|----|-----|
| | 2 | Rib | | 30 | 134 |
| | 3 | Rib | | 28 | 126 |
| | 4 | Rib | | 8 | 51 |
| | 5 | Rib | | 38 | 33 |
| | 6 | Scapulocoracoid | Left | 28 | 26 |
| | 7 | Mandible | Left | 22 | 80 |
| | 8 | Rib | | 30 | 165 |
| | 9 | Rib | | 29 | 30 |
| R4C12 | 1 | Interclavicle | | 26 | 57 |
| | 2 | Phalanx | | 4 | 170 |
| | 3 | Ulna | | 24 | 45 |
| | 4 | Centrum | | 6 | 28 |
| | 5 | Metacarpal/Metatarsal | | 10 | 160 |
| | 6 | Humerus | Left | 28 | 170 |
| | 7 | Tibia+Astragalus | Right | 34 | 118 |
| | 8 | Ulna | Right | 24 | 57 |
| | 9 | Rib | | 10 | 104 |
| | 10 | Humerus | Left | 27 | 40 |
| | 11 | Rib | | 18 | 10 |
| | 12 | Rib | | 23 | 55 |
| | 13 | Rib | | 7 | 65 |
| R4C13 | 1 | Rib | | 37 | 50 |
| | 2 | Rib | | 14 | 100 |
| | 3 | Rib | | 17 | 115 |
| | 4 | Rib | | 14 | 85 |
| R4C14 | 1 | Scapula+Coracoid | Right | 43 | 60 |
| | 2 | Ischia(pair) | | 30 | 50 |
| R5C1 | | | | | |
| R5C2 | 1 | Femur | | 26 | 50 |
| R5C3 | 1 | Foot and Crus | | 43 | 145 |
| | 2 | Radius | | 22 | 135 |
| | 3 | Ulna | Right | 22 | 25 |
| | 4 | Radius | Right | 22 | 25 |
| | 5 | Centrum | | | |
| | 6 | Centrum | | | |
| R5C4 | 1 | Gastralia(15-20) | | 19 | 50 |
| | 2 | Vertebrae(2) | | 6 | 10 |
| | 3 | Rib | | 27 | 170 |
| | 4 | Rib | | 33 | 25 |
| | 5 | Rib | | 50 | 160 |
| | 6 | Scapula | | 11 | |
| | 7 | Metacarpal/Metatarsal | | 9 | 40 |
| | 8 | Rib | | 11 | 50 |
| | 9 | <i>Indet</i> | | 14 | 30 |
| | 10 | Coracoid | Right | 20 | 0 |
| | 11 | Phalanx | | 3 | |
| | 12 | Phalanx | | 3 | |

| | | | | | |
|------|----|---------------------------------|-------|----|-----|
| R5C5 | 1 | Fibula | Left | 25 | 115 |
| | 2 | Vertebrae(3) | | 9 | 115 |
| | 3 | Vertebra with neural spine | | 26 | 79 |
| | 4 | Rib | | 31 | 76 |
| | 5 | Vertebra with neural spine | | 25 | 60 |
| | 6 | Ribs | | 41 | 25 |
| | 7 | Vertebrae with neural spines(2) | | 23 | 40 |
| | 8 | Rib | | 27 | 10 |
| | 9 | Rib | | 14 | 60 |
| | 10 | Ischia(pair) | | 30 | 40 |
| | 11 | Chevron | | 8 | 90 |
| | 12 | Rib | | 13 | 0 |
| | 13 | Ilia (pair) | | 25 | |
| | 14 | Ribs | | 33 | 60 |
| | 15 | Metacarpal/Metatarsal | | 8 | 130 |
| | 16 | Metacarpal/Metatarsal | | 9 | 155 |
| | 17 | Surangular | | 7 | 40 |
| R5C6 | 1 | Frontal | | 12 | |
| | 2 | Interclavicle | | 26 | 140 |
| | 3 | Fibula | | 26 | 105 |
| | 4 | <i>Indet</i> | | 9 | |
| | 5 | Humerus | | 22 | 165 |
| | 6 | Coracoid | Right | 17 | 0 |
| | 7 | Scapula | Right | 16 | |
| | 8 | <i>Indet</i> | | | |
| | 9 | Humerus | Left | 24 | 85 |
| | 10 | Rib | | 31 | 135 |
| | 11 | Rib | | 37 | 165 |
| | 12 | Phalanx | | 3 | |
| | 13 | Caudal Vertebrae | | 20 | 0 |
| | 14 | Scapula | | 7 | 100 |
| | 15 | Scapula | Right | 30 | 40 |
| | 16 | Interclavicle | | 20 | 20 |
| | 17 | Rib | | 24 | 35 |
| | 18 | Rib | | 7 | 155 |
| | 19 | Rib | | 16 | 10 |
| | 20 | Metacarpal/Metatarsal | | 6 | 145 |
| | 21 | Humerus | Left | 25 | 175 |
| | 22 | Tibia | | 24 | 0 |
| | 23 | Ulna | Right | 22 | 25 |
| | 24 | Rib | | 8 | 30 |
| | 25 | Metacarpal/Metatarsal | | 6 | 80 |
| | 26 | Calcaneum | | 11 | 165 |
| | 27 | | | 8 | 165 |
| | 28 | Metacarpal/Metatarsal | | 5 | 150 |
| | 29 | Phalanx | | 4 | 135 |
| R5C7 | 1 | Scapula | Right | 35 | 65 |

| | | | | | |
|------|----|------------------------------|-------|----|-----|
| | 2 | Radius | | 27 | 87 |
| | 3 | Femur | | 33 | 90 |
| | 4 | Radius | | 26 | 44 |
| | 5 | Rib | | 18 | 17 |
| | 6 | | | 33 | 113 |
| | 7 | Rib | | 28 | 13 |
| | 8 | Neural spines(3) | | 24 | 115 |
| | 9 | Tibia | | 25 | 34 |
| | 10 | Femur | Left | 30 | 5 |
| | 11 | Rib | | 29 | 140 |
| | 12 | Tibia | | 23 | 137 |
| | 13 | Femur | Left | 41 | 2 |
| | 14 | Scapula | Left | 25 | 150 |
| | 15 | Metacarpal/Metatarsal | | 7 | 120 |
| | 16 | Carpal | | 4 | |
| | 17 | Rib | | 18 | 175 |
| | 18 | Rib | | 35 | 110 |
| | 19 | Rib | | 35 | 125 |
| | 20 | Rib | | 26 | 150 |
| | 21 | Rib | | 18 | 135 |
| | 22 | Rib | | 29 | 145 |
| | 23 | Phalanx | | 3 | |
| | 24 | 5th Metatarsal | | 5 | |
| | 25 | Long bone | | | |
| | 26 | Long bone | | 9 | 30 |
| R5C8 | 1 | Vertebrae with neural spines | | 47 | 98 |
| | 2 | Scapula | Right | 33 | 85 |
| | 3 | Vertebrae with neural spines | | 41 | 30 |
| | 4 | Femur | | 21 | 145 |
| | 5 | Ulna | Left | 24 | 15 |
| | 6 | Rib | | 26 | 145 |
| | 7 | Metacarpal/Metatarsal | | 9 | 160 |
| | 8 | Caudal Vertebrae | | 14 | 17 |
| | 9 | Tibia | | 26 | 131 |
| | 10 | Femur | Left | 42 | 150 |
| | 11 | Rib | | 16 | 50 |
| | 12 | Metacarpal/Metatarsal | | 9 | 90 |
| | 13 | <i>Indet</i> | | | |
| | 14 | Rib | | 11 | 50 |
| | 15 | Vertebrae(2/3) | | 8 | |
| | 16 | Rib | | 10 | 20 |
| | 17 | Carpal | | 3 | |
| | 18 | <i>Indet</i> | | 4 | |
| R5C9 | 1 | Humerus | Right | 24 | 174 |
| | 2 | Rib | | 22 | 143 |
| | 3 | Fibula | Right | 24 | 170 |
| | 4 | Phalanx | | 4 | 0 |

| | | | | | |
|-------|----|-----------------------|-------|----|-----|
| | 5 | Rib | | 15 | 145 |
| | 6 | Rib | | 13 | 10 |
| | 7 | Lower jaw(partial) | | 18 | 170 |
| | 8 | Lower jaw(pair) | | 26 | 10 |
| | 9 | Scapula+Coracoid | Left | 40 | 135 |
| | 10 | Rib | | 9 | 25 |
| | 11 | Metacarpal/Metatarsal | | 8 | 20 |
| | 12 | Occipital condyle | | 5 | |
| | 13 | Rib | | 20 | 120 |
| | 14 | Metacarpal/Metatarsal | | 6 | 35 |
| | 15 | Astragalus | Right | 7 | |
| | 16 | Rib | | 39 | 10 |
| | 17 | Rib | | 32 | 60 |
| | 18 | Phalanx | | 4 | 170 |
| R5C10 | 1 | Metacarpal/Metatarsal | | 6 | 72 |
| | 2 | Metacarpal/Metatarsal | | 6 | 75 |
| | 3 | Metacarpal/Metatarsal | | 5 | 80 |
| | 4 | Radius | | 22 | 176 |
| | 5 | Rib | | 16 | 127 |
| | 6 | Rib | | 15 | 115 |
| | 7 | Rib | | 43 | 75 |
| | 8 | Rib | | 28 | 118 |
| | 9 | Phalanx | | 6 | 40 |
| | 10 | Metacarpal/Metatarsal | | 8 | 5 |
| | 11 | Phalanx | | 2 | 175 |
| | 12 | Rib | | 19 | 80 |
| | 13 | Phalanx | | 4 | 15 |
| | 14 | Metacarpal/Metatarsal | | 9 | 162 |
| | 15 | Metacarpal/Metatarsal | | 9 | 162 |
| | 16 | Scapula | Right | | 154 |
| | 17 | Scapula | Left | | 10 |
| | 18 | Fibula | Right | | 18 |
| | 19 | Rib | | 25 | 45 |
| | 20 | Scapula | Right | 33 | 102 |
| | 21 | Radius | | 25 | 25 |
| | 22 | Tibia | | 25 | 95 |
| | 23 | Rib | | 23 | 111 |
| | 24 | Astragalus | | 8 | |
| | 25 | Astragalus | | 6 | |
| | 26 | Tibia | | 24 | 15 |
| | 27 | <i>Indet</i> | | 6 | |
| | 28 | Scapula | Left | 11 | 93 |
| | 29 | Tibia | | 24 | 119 |
| | 30 | Neural spine(4) | | 13 | 40 |
| | 31 | Rib | | 31 | 167 |
| | 32 | Rib | | 33 | 167 |
| R5C11 | 1 | Astragalus | Right | 7 | |

| | | | | | |
|-------|----|------------------------------|-------|----|-----|
| | 2 | Pubis | | 6 | 85 |
| | 3 | Vertebrae with neural spines | | 28 | 0 |
| | 4 | Astragalus | | 7 | |
| | 5 | Coracoid | Left | 20 | 138 |
| | 6 | Carpal/Tarsal | | 4 | |
| | 7 | Calcaneum | Right | 8 | 178 |
| | 8 | Pubis(pair) | | 28 | 142 |
| | 9 | Rib | | 14 | 80 |
| | 10 | Rib | | 20 | 170 |
| | 11 | Rib | | 16 | 170 |
| | 12 | Rib | | 20 | 85 |
| | 13 | Metacarpal/Metatarsal | | 5 | 70 |
| | 14 | Metacarpal/Metatarsal | | 3 | 10 |
| R5C12 | 1 | Metacarpal/Metatarsal | | 10 | 160 |
| | 2 | Phalanx | | 2 | |
| | 3 | <i>Indet</i> | | 2 | |
| R6C1 | | | | | |
| R6C2 | | | | | |
| R6C3 | 1 | <i>Indet</i> | | 40 | |
| | 2 | Rib | | 3 | 20 |
| | 3 | Rib | | 10 | 50 |
| | 4 | Rib | | 18 | 50 |
| | 5 | Metacarpal/Metatarsal | | 9 | 20 |
| | 6 | Rib | | 25 | 45 |
| | 7 | Rib | | 24 | 20 |
| | 8 | Calcaneum | Left | 7 | |
| | 9 | Tarsal(digit4) | | 4 | |
| | 10 | Tarsal(digit3) | | 2 | |
| | 11 | Calcaneum | Right | 8 | |
| | 12 | <i>Indet</i> | | 6 | |
| | 13 | Metacarpal/Metatarsal | | 6 | 130 |
| R6C4 | 1 | Scapula | Left | 27 | 150 |
| | 2 | Rib | | 47 | 50 |
| | 3 | Scapula | Left | 33 | 20 |
| | 4 | Rib | | 19 | 120 |
| | 5 | Coracoid | | 19 | 50 |
| | 6 | Rib | | 12 | 10 |
| | 7 | Rib | | 23 | 165 |
| | 8 | Ribs(3) | | 55 | 50 |
| | 9 | Rib | | 39 | 125 |
| | 10 | Rib | | 37 | 40 |
| | 11 | Rib | | 30 | 15 |
| | 12 | Rib | | 19 | 30 |
| | 13 | Ulna | | 23 | 70 |
| | 14 | Long bone | | 22 | 125 |
| | 15 | Humerus | | 27 | 60 |
| | 16 | Scapula | Right | 33 | 60 |

| | | | | | |
|------|----|------------------------------|-------|----|-----|
| | 17 | Coracoid | Left | 18 | 35 |
| | 18 | Rib | | 30 | 125 |
| | 19 | Rib | | 25 | 90 |
| | 20 | Vertebra | | 5 | |
| R6C5 | 1 | Phalanx | | 3 | |
| | 2 | Metacarpal/Metatarsal | | 4 | 70 |
| | 3 | Metacarpal/Metatarsal | | 8 | 60 |
| | 4 | Rib | | 28 | 80 |
| | 5 | Rib | | 22 | 80 |
| | 6 | Neural spines | | 14 | 110 |
| | 7 | Vertebrae(2) | | 7 | 5 |
| | 8 | Scapula | | 22 | 80 |
| | 9 | Scapula | | | 58 |
| | 10 | Fibula | | 23 | 20 |
| | 11 | Radius | | 19 | 175 |
| | 12 | Radius | | 21 | 20 |
| | 13 | Tibia+Astragalus | | 28 | 0 |
| | 14 | Scapula | Right | 28 | 0 |
| | 15 | Phalanx | | 5 | 20 |
| | 16 | Long bone | | 4 | |
| | 17 | Rib | | 34 | 5 |
| | 18 | Metacarpal/Metatarsal | | 8 | 175 |
| | 19 | Rib | | 16 | 20 |
| | 20 | Coracoid | | 18 | 120 |
| R6C6 | 1 | Cervical Rib | | 8 | 35 |
| | 2 | Humerus(distal end) | | 11 | 30 |
| | 3 | | | 9 | |
| | 4 | Metacarpal/Metatarsal | | 6 | 5 |
| | 5 | Astragalus | Left | 6 | |
| | 6 | Rib | | 9 | 155 |
| | 7 | Vertebrae with neural spines | | 78 | 45 |
| | 8 | Rib | | 23 | 0 |
| | 9 | Rib | | 32 | 30 |
| | 10 | Rib | | 26 | 40 |
| | 11 | Rib | | 16 | 70 |
| | 12 | Rib | | 32 | 60 |
| | 13 | Rib | | 40 | 85 |
| | 14 | Scapula | Left | 31 | 40 |
| | 15 | Rib | | 24 | 110 |
| | 16 | Rib | | 12 | 155 |
| | 17 | Rib | | 20 | 155 |
| | 18 | Tibia | | 13 | 165 |
| | 19 | Ulna | Right | 9 | 175 |
| | 20 | Metacarpal/Metatarsal | | 8 | 25 |
| R6C7 | 1 | Scapula+Coracoid | Right | 34 | 80 |
| | 2 | Scapula | Left | 21 | 125 |
| | 3 | Vertebrae with neural spines | | 35 | 90 |

| | | | | | |
|------|----|-------------------------------|-------|----|-----|
| | | | | | |
| | 4 | Calcaneum | Left | 8 | 58 |
| | 5 | Scapula+Coracoid | Right | 38 | 156 |
| | 6 | Rib | | 14 | 152 |
| | 7 | Rib | | 16 | 140 |
| | 8 | Rib | | 13 | 172 |
| | 9 | Rib | | 9 | 4 |
| | 10 | Metacarpal/Metatarsal | | 8 | 157 |
| | 11 | Carpal | | 3 | |
| | 12 | Scapula | Right | 31 | 23 |
| | 13 | Ischia(pair) | | 28 | 154 |
| | 14 | Rib | | 32 | 5 |
| | 15 | Vertebrae with neural spines | | 26 | 100 |
| | 16 | Vertebrae with neural spines | | 25 | 70 |
| | 17 | Rib | | 36 | 5 |
| | 18 | Rib | | 25 | 67 |
| | 19 | | | 15 | 0 |
| | 20 | Ulna | | 20 | 165 |
| | 21 | Metacarpal/Metatarsal | | 9 | 165 |
| | 22 | Centrum | | 4 | |
| | 23 | Centrum | | 4 | |
| | 24 | Ribs(2) | | 29 | 70 |
| | 25 | Vertebrae w. neuralspines(2) | | 30 | 80 |
| | 26 | Vertebrae w. neural spines(4) | | 21 | 76 |
| R6C8 | 1 | Rib | | 21 | 53 |
| | 2 | Rib | | 12 | 35 |
| | 3 | Rib | | 24 | 38 |
| | 4 | Rib | | 9 | 72 |
| | 5 | Rib | | 13 | 83 |
| | 6 | Rib | | 29 | 3 |
| | 7 | Ribs(2) | | 25 | 62 |
| | 8 | Scapula | | 13 | |
| | 9 | Sternal | | 10 | |
| | 10 | Metacarpal/Metatarsal | | 10 | 55 |
| | 11 | Radius | | 12 | 40 |
| | 12 | Long bone | | 5 | 128 |
| | 13 | Fibula | Right | 24 | 38 |
| | 14 | Humerus | Left | 28 | 30 |
| | 15 | Femur | Left | 36 | 15 |
| | 16 | Radius | | 28 | 60 |
| R6C9 | 17 | Vertebra | | 27 | 175 |
| | 18 | Rib | | 39 | 60 |
| | 1 | Femur | Left | 37 | 165 |
| | 2 | Astragalus | Left | 6 | |
| | 3 | Phalanx | | 4 | 40 |
| | 4 | Phalanx | | 2 | |
| | 5 | Calcaneum | Left | 8 | |
| | 6 | Rib | | 17 | 175 |

| | | | | | |
|-------|----|---------------------------------|-------|-----|-----|
| | 7 | Metacarpal/Metatarsal | | 10 | 165 |
| | 8 | Rib | | 9 | 30 |
| | 9 | Scapula+Coracoid | | 29 | 155 |
| | 10 | Ischia(pair) | | 19 | 155 |
| | 11 | Vertebrae with neural spines | | 100 | 140 |
| | 12 | Pubis | Left | | |
| | 13 | Long bone | | 8 | |
| R6C10 | 14 | Caudal Vertebrae | | 87 | 60 |
| | 1 | Fibula | Right | 22 | 126 |
| | 2 | Tibia | | 27 | 136 |
| | 3 | Rib | | 16 | 123 |
| | 4 | <i>Indet</i> | | 4 | |
| | 5 | Tibia | | 26 | 132 |
| | 6 | <i>Indet</i> | | 8 | |
| | 7 | Metacarpal/Metatarsal | | 8 | 25 |
| | 8 | Metacarpal/Metatarsal | | 9 | 122 |
| | 9 | Fibula | | 28 | 92 |
| | 10 | Femur(distal end) | | 9 | |
| | 11 | Phalanx | | 2 | 75 |
| | 12 | <i>Indet</i> | | | |
| | 13 | Metacarpal/Metatarsal | | 7 | 137 |
| | 14 | Vertebrae with neural spines(3) | | 14 | 100 |
| | 15 | Humerus | Left | 26 | 175 |
| | 16 | Tibia | | 26 | 165 |
| | 17 | Pubis | Left | 26 | 155 |
| | 18 | Metacarpal/Metatarsal | | 10 | 35 |
| | 19 | Phalanx | | 2 | |
| | 20 | Phalanx | | 3 | |
| | 21 | Carpal | | 3 | |
| | 22 | <i>Indet</i> | | 7 | 89 |
| R6C11 | 1 | Ischium | Right | 30 | 70 |
| | 2 | Long bone | | 13 | 59 |
| | 3 | Ischia(broken pair) | | 10 | |
| | 4 | Metacarpal/Metatarsal | | 7 | 27 |
| | 5 | <i>Indet</i> | | 6 | |
| | 6 | Metacarpal/Metatarsal | | 6 | 120 |
| | 7 | Phalanx | | 3 | |
| | 8 | Phalanx | | | |
| | 9 | Metacarpal/Metatarsal | | 5 | 170 |
| | 10 | Metacarpal/Metatarsal | | 9 | 173 |
| R6C12 | 1 | Femur | Right | 28 | 170 |
| | 2 | Rib | | 3 | 150 |
| | 3 | Rib | | 8 | 0 |
| | 4 | Rib | | 5 | 0 |
| | 5 | Rib | | 4 | 20 |
| R7C1 | | | | | |

| | | | | | |
|------|----|---------------------------------|-------|----|-----|
| R7C2 | | | | | |
| R7C3 | | | | | |
| R7C4 | 1 | Vertebrae w. neural spines(4-5) | | 19 | 53 |
| | 2 | Vertebra with neural spine | | 16 | 148 |
| | 3 | Metacarpal/Metatarsal | | 6 | 5 |
| | 4 | Fibula | Right | 23 | 24 |
| | 5 | Rib | | 15 | 24 |
| | 6 | Metacarpal/Metatarsal | | 9 | 140 |
| | 7 | Metacarpal/Metatarsal | | 3 | |
| | 8 | Scapula | | 14 | |
| | 9 | Humerus | Left | 26 | 15 |
| | 10 | Pubis | Right | 27 | 15 |
| | 11 | Femur | Right | 27 | 22 |
| | 12 | Rib | | 20 | 40 |
| | 13 | Fibula | | 23 | 51 |
| | 14 | Ulna | Left | 22 | 16 |
| | 15 | Rib | | 31 | 60 |
| | 16 | Fibula | Right | 20 | 168 |
| | 17 | Femur | Right | 26 | 55 |
| | 18 | Humerus | Left | 24 | 37 |
| | 19 | Ischium | Left | 31 | 40 |
| | 20 | Metacarpal/Metatarsal | | 7 | 43 |
| | 21 | Rib | | 5 | 65 |
| | 22 | Rib | | 33 | 65 |
| | 23 | Scapula+Coracoid | Left | 35 | 70 |
| | 24 | Humerus | Right | 34 | 90 |
| | 25 | Pubis | | 30 | 75 |
| R7C5 | 1 | Vertebrae with neural spines(2) | | 32 | 80 |
| | 2 | Ribs | | 30 | 80 |
| | 3 | Rib | | 12 | 100 |
| | 4 | Pubis | Right | 29 | 15 |
| | 5 | Scapula+Coracoid | Left | 41 | 5 |
| | 6 | Vertebrae with neural spines(4) | | 20 | 130 |
| | 7 | Rib | | 18 | 60 |
| | 8 | Rib | | 22 | 130 |
| | 9 | Rib | | 21 | 50 |
| | 10 | Coracoid | Right | 20 | 15 |
| | 11 | Fibula | Right | 23 | 175 |
| | 12 | Vertebrae with neural spines(5) | | 23 | 145 |
| R7C6 | 1 | Rib | | 48 | 2 |
| | 2 | Rib | | 38 | 174 |
| | 3 | Long bone | | 16 | 44 |
| | 4 | Ribs(7) | | 30 | 160 |

| | | | | | |
|-------|-----------------------|--------------------------|-------|----|-----|
| | 5 | Rib | | 40 | 153 |
| | 6 | Humerus | Left | 14 | |
| | 7 | Phalanx | | 20 | |
| | 8 | Scapula | | 26 | 13 |
| | 9 | Long bone | | 8 | |
| R7C7 | Caudal vertebrae with | | | | |
| | 1 | chevron | | 70 | 10 |
| | 2 | Rib(nearly complete) | | 24 | 26 |
| | 3 | | | | |
| | 4 | Femur | Right | 36 | 153 |
| | 5 | Fibula | Right | 25 | 120 |
| | 6 | Fibula+Calcaneum | Right | 29 | 30 |
| | 7 | Tibia+Fibula | Left | 24 | 30 |
| | 8 | Rib | | 34 | 33 |
| | 9 | Coracoid | | 14 | |
| | 10 | Gastralia | | 14 | |
| | 11 | Rib | | 15 | 100 |
| | 12 | Rib | | 34 | 4 |
| R7C8 | 13 | Gastralia | | 5 | 70 |
| | 1 | Scapula+Coracoid | Right | 43 | 80 |
| | 2 | Radius | | 25 | 90 |
| | 3 | Metacarpal/Metatarsal | | 8 | 0 |
| | 4 | Metacarpal/Metatarsal(2) | | 9 | 120 |
| | 5 | Metacarpal/Metatarsal | | 10 | 20 |
| | 6 | Phalanx | | 3 | |
| | 7 | Phalanges(2) | | 2 | |
| | 8 | Phalanx | | 2 | |
| | 9 | Tibia | | 24 | 0 |
| | 10 | Rib | | 28 | 25 |
| | 11 | Rib | | 9 | 75 |
| R7C9 | 12 | Scapula | Left | 26 | 105 |
| | 13 | Fibula | | 23 | 0 |
| | 14 | Metacarpal/Metatarsal | | 10 | 175 |
| | 15 | Fibula | | 16 | 75 |
| | 16 | Rib | | 28 | 155 |
| | 17 | Coracoid | | 11 | |
| | 1 | Humerus | Right | 26 | 20 |
| | 2 | Tibia | | 23 | 10 |
| | 3 | Radius | | 22 | 165 |
| | 4 | Vertebra | | 4 | |
| | 5 | Coracoid | | 20 | 110 |
| R7C10 | 6 | Radius | | 23 | 85 |
| | 7 | Rib | | 20 | 170 |
| | 8 | Humerus | | 11 | 100 |
| | 9 | Ribs(2) | | 20 | 145 |
| | 10 | Astragalus | | 8 | |
| | 11 | Femur | Left | 39 | 160 |

| | | | | | |
|-------|-----|-----------------------|------|----|-----|
| | 12 | Skull Fragment | | 6 | |
| | 13 | Long bone | | 17 | 0 |
| | 14 | Vertebral spines(2) | | 13 | 40 |
| | 15 | Long bone(Incomplete) | | 5 | |
| | 16 | Centrum | | 6 | |
| | 17 | Phalanx | | 5 | |
| R7C10 | 1 | Femur | Left | 41 | 55 |
| | 2 | Rib | | 23 | 165 |
| | 3 | Tibia | | 26 | 75 |
| | 4 | Calcaneum | | 7 | |
| | 5 | Rib | | 34 | 55 |
| | 6-7 | Phalanges | | 2 | |
| | 8 | Rib | | 32 | 30 |
| | 9 | Ribs(3) | | 26 | 60 |
| | 10 | Vertebral column | | 35 | 95 |
| | 11 | Phalanx | | 2 | |
| | 12 | Rib | | 38 | 105 |
| | 13 | Neural spine | | 11 | 175 |
| | 14 | Calcaneum | | 7 | |
| R8C1 | | | | | |
| R8C2 | | | | | |
| R8C3 | | | | | |
| R8C4 | 1 | Caudal vertebrae | | 13 | |
| | 2 | | | | |
| R8C5 | 1 | Scapula+Coracoid | | 37 | 35 |
| | 2 | Humerus(incomplete) | | 10 | |
| | 3 | Rib | | 24 | |
| | 4 | Scapula | | 30 | 65 |
| | 5 | Humerus | | 10 | |
| | 6 | Rib(2) | | 15 | 15 |
| | 7 | Limb bone | | 15 | 40 |
| R8C6 | 1 | Humerus | | 18 | 135 |
| | 2 | Long bone | | 11 | 65 |
| | 3 | Tibia+Fibula | | | |
| | 4 | /Ulna+Radius | | 7 | |
| | 5 | Gastralia | | 9 | 145 |
| | 6 | Ribs(3+) | | 16 | 25 |
| | 7 | Metacarpal/Metatarsal | | 0 | 145 |
| | 8 | Metacarpal/Metatarsal | | 0 | 15 |
| | 9 | Scapula | Left | 26 | 25 |
| | 10 | | | 21 | 75 |
| | 11 | Humerus | | 12 | |
| | 12 | Femur | | 34 | 10 |
| | 13 | Fibula | | 23 | 110 |
| | 14 | Fibula | | 18 | 170 |
| | 15 | Metacarpal/Metatarsal | | 8 | 155 |
| | | Rib | | 22 | 70 |

| | | | | | |
|------|----|------------------------------------|-------|----|-----|
| R8C7 | 1 | Skull Fragment | | 15 | |
| | 2 | Vertebral column with ribs | | 70 | 5 |
| | 3 | Rib | | 30 | 75 |
| | 4 | Limb bone(Fragment) | | 6 | |
| | 5 | Scapula(incomplete) | | 26 | 70 |
| | 6 | Fibula | | 27 | 30 |
| | 7 | Rib | | 21 | 110 |
| | 8 | Humerus | | 10 | 150 |
| | 9 | Rib | | 21 | 110 |
| | 10 | Cervical vertebrae with ribs(5) | | 30 | 80 |
| R8C8 | 11 | Metacarpal/Metatarsal | | 10 | 170 |
| | 1 | Rib | | 41 | 5 |
| | 2 | Rib | | 23 | 70 |
| | 3 | Femur | Left | 39 | 35 |
| | 4 | Femur | Right | 39 | 20 |
| | 5 | Tibia | Left | 27 | 35 |
| | 6 | Ribs | | 18 | 20 |
| | 7 | Fibula | | 20 | 53 |
| | 8 | Fibula | | 25 | 175 |
| | 9 | Femur | | 10 | |
| | 10 | Ischia | | 19 | 10 |
| | 11 | Rib | | 40 | 125 |
| | 12 | Centrum | | 6 | |
| | 13 | Rib | | 7 | 95 |
| | 14 | Rib | | 11 | 0 |
| | 15 | Fibula | | 12 | 140 |
| | 16 | Clavicle | | 17 | 140 |
| | 17 | Metacarpal/Metatarsal | | 5 | |
| | 18 | Long bone | | 10 | 20 |
| | 19 | Claw | | 4 | |
| R9C1 | | | | | |
| R9C2 | | | | | |
| R9C3 | | | | | |
| R9C4 | 01 | Tibia | | 27 | 20 |
| | 02 | Rib | | 6 | |
| R9C5 | 01 | Fibula | Right | 27 | 70 |
| | 02 | Ulna | Right | 25 | 70 |
| | 03 | Rib | | 27 | 60 |
| | 04 | Rib | | 24 | 80 |
| | 05 | Humerus | Right | 14 | 40 |
| | 06 | Humerus | | 17 | 30 |
| | 07 | Radius | | 20 | 10 |
| | 08 | Ulna | | 22 | 10 |
| | 09 | Metacarpal/Metatarsal | | 8 | 9 |
| | 10 | Metacarpal/Metatarsal | | 8 | 20 |

| | | | | | |
|------|-------|-----------------------|------------|----|--------|
| | 11 | Rib | | 21 | 35 |
| | 12 | Phalanx | | 4 | |
| | 13 | Metacarpal/Metatarsal | | 6 | 134,86 |
| | 14 | Fragment | | 8 | |
| | 15 | Fragment | | 9 | |
| | 16 | Long bone | | 13 | 178 |
| R9C6 | 1 | Tibia | | 25 | 130 |
| | 2 | Astragalus | | | |
| | 3 | Metacarpal/Metatarsal | | 10 | 5 |
| | 4 | Metacarpal/Metatarsal | | 8 | 90 |
| | 5 | Metacarpal/Metatarsal | | 8 | 120 |
| | 6 | Metacarpal/Metatarsal | | 9 | |
| | 7 | Scapula | Right | 30 | 50 |
| | 8 | Pubis | Right | 28 | 165 |
| | 9 | Femur | Left | 39 | 170 |
| | 10 | Fibula | Left | 11 | 115 |
| | 11 | Tibia | Left | 23 | 140 |
| | 12 | Metacarpal/Metatarsal | | 8 | 8 |
| | 13 | Rib | | 46 | 50 |
| | 14 | Rib(Incomplete) | | 11 | 170 |
| | 15 | Coracoid | Right | 20 | 14 |
| | 16 | Rib | | 9 | 10 |
| R9C7 | 1 | Rib | | 31 | 10 |
| | 2 | Metacarpal/Metatarsal | | 10 | 5 |
| | 3 | Metacarpal/Metatarsal | | 8 | 5 |
| | 4 | Metacarpal/Metatarsal | | 10 | 13 |
| | 5 | Metacarpal/Metatarsal | | 8 | 166 |
| | 6 | Metacarpal/Metatarsal | | 10 | 70 |
| | 7 | Metacarpal/Metatarsal | | 9 | 30 |
| | 8 | Metacarpal/Metatarsal | | 9 | 30 |
| | 9 | Metacarpal/Metatarsal | | 8 | 58 |
| | 10-18 | Phalanges | | 4 | |
| | 19 | Scapula | Left | 30 | 22 |
| | 20 | Scapula | Left | 30 | 168 |
| | 21 | Femur | Left | 38 | 176 |
| | 22 | Fibula | Left | 23 | 166 |
| | 23 | Radius | Right | 22 | 18 |
| | 24 | Ulna | Right | 23 | 35 |
| R9C8 | 1 | Ulna | | 24 | 25 |
| | 2 | Scapula | Right | 30 | 27 |
| | 3 | Vertebrae | | 35 | 80 |
| | 4 | Bone fragment | | 5 | |
| | 5 | Scapula | | 10 | |
| | 6 | Scapula | | 10 | |
| | 7 | Ischia | Left+Right | 32 | 78 |
| | 8 | Ribs | | 11 | 44 |
| | 9 | Scapulocoracoid | Right | 39 | 48 |

| | | | | | |
|-------|----|------------------|-------|----|-----|
| | 10 | Radius | Right | 24 | 92 |
| | 11 | Neural spine | | 11 | |
| | 12 | Rib | | 20 | 165 |
| | 13 | Femur | Left | 39 | 102 |
| | 14 | Scapulocoracoid | Left | 38 | 58 |
| | 15 | Pubis | Left | 31 | 30 |
| | 16 | Neural spine | | | |
| | 17 | Bone fragment | | 10 | |
| R10C1 | | | | | |
| R10C2 | | | | | |
| R10C3 | | | | | |
| R10C4 | | | | | |
| R10C5 | | | | | |
| R10C6 | 1 | Scapula+Coracoid | Right | 21 | 53 |
| | 2 | Rib(Incomplete) | | 20 | |
| | 3 | Rib head | | 9 | |
| | 4 | Rib(Incomplete) | | 10 | 170 |

| Analysis | 176Lu/177Hf | | \pm | 176Hf/177Hf | \pm | Age (Ma) | $e^{\lambda t} - 1$ | Initial ϵ_{Hf} | 176/177Hf now | $(t = \epsilon_{\text{Hf}} \text{ age})$ | $(t = \epsilon_{\text{Hf}} \text{ age})$ | \pm | in ϵ_{Hf} units | Model Age DM |
|------------|-------------|----------|-------|-------------|----------|----------|---------------------|--------------------------------|---------------|--|--|-------|---------------------------------|--------------|
| | 176Lu/177Hf | \pm | | | | | | | | | | | | |
| C216153-3 | 0.001540 | 0.000035 | | 0.282695 | 1.01E-05 | 247.2 | 4.63E-03 | 2.8269E-01 | -3.2 | 2.1 | 0.4 | | | 800.2 |
| C216153-8 | 0.001050 | 0.000019 | | 0.281873 | 1.20E-05 | 300.2 | 5.62E-03 | 2.8187E-01 | -32.3 | -25.8 | 0.4 | | | 1939.9 |
| C216153-10 | 0.000885 | 0.000018 | | 0.281368 | 6.95E-04 | 307.6 | 5.76E-03 | 2.8136E-01 | -50.1 | -43.5 | 24.7 | | | 2621.8 |
| C216153-31 | 0.000951 | 0.000014 | | 0.281792 | 1.05E-05 | 978.8 | 1.84E-02 | 2.8177E-01 | -35.1 | -13.8 | 0.4 | | | 2045.3 |
| C216153-34 | 0.000603 | 0.000011 | | 0.282220 | 1.06E-05 | 249.6 | 4.67E-03 | 2.8222E-01 | -20.0 | -14.5 | 0.4 | | | 1440.2 |
| C216153-36 | 0.000540 | 0.000014 | | 0.281742 | 1.10E-05 | 963.1 | 1.81E-02 | 2.8173E-01 | -36.9 | -15.7 | 0.4 | | | 2091.9 |
| C216153-38 | 0.000807 | 0.000015 | | 0.282348 | 6.53E-05 | 623.8 | 1.17E-02 | 2.8234E-01 | -15.4 | -1.9 | 2.3 | | | 1269.8 |
| C216153-39 | 0.000713 | 0.000024 | | 0.281982 | 1.05E-04 | 1222 | 2.31E-02 | 2.8197E-01 | -28.4 | -1.6 | 3.7 | | | 1772.1 |
| C216153-75 | 0.001491 | 0.000028 | | 0.282144 | 1.15E-05 | 416.4 | 7.80E-03 | 2.8213E-01 | -22.7 | -13.8 | 0.4 | | | 1581.1 |
| C216153-76 | 0.002067 | 0.000056 | | 0.282581 | 1.92E-04 | 240.3 | 4.50E-03 | 2.8257E-01 | -7.2 | -2.2 | 6.8 | | | 977.2 |
| C216153-88 | 0.003199 | 0.000107 | | 0.282844 | 1.42E-05 | 303 | 5.67E-03 | 2.8283E-01 | 2.1 | 8.2 | 0.5 | | | 614.2 |
| C216153-89 | 0.001262 | 0.000015 | | 0.282413 | 1.73E-05 | 506.2 | 9.50E-03 | 2.8240E-01 | -13.1 | -2.3 | 0.6 | | | 1193.1 |
| C216153-90 | 0.001542 | 0.000013 | | 0.282059 | 1.05E-05 | 367 | 6.88E-03 | 2.8205E-01 | -25.7 | -17.9 | 0.4 | | | 1703.6 |
| C216153-91 | 0.001070 | 0.000016 | | 0.282680 | 3.72E-05 | 436.7 | 8.19E-03 | 2.8267E-01 | -3.7 | 5.7 | 1.3 | | | 811.9 |
| C216153-93 | 0.001219 | 0.000023 | | 0.282391 | 3.39E-04 | 246.5 | 4.61E-03 | 2.8239E-01 | -13.9 | -8.6 | 12.0 | | | 1222.9 |
| C216153-94 | 0.000955 | 0.000006 | | 0.282269 | 1.00E-05 | 277.1 | 5.19E-03 | 2.8226E-01 | -18.3 | -12.3 | 0.4 | | | 1385.7 |
| C216153-95 | 0.001410 | 0.000042 | | 0.282444 | 1.72E-05 | 479.4 | 8.99E-03 | 2.8243E-01 | -12.1 | -1.8 | 0.6 | | | 1154.8 |

| Sample # | Preferred Age | ± Ma |
|-----------------|----------------------|-------------|
| 161153-37 | 225.6 | 2.64 |
| 161153-17 | 231.6 | 2.78 |
| 161153-43 | 233.4 | 3.16 |
| 161153-143 | 240.3 | 2.88 |
| 161153-55 | 241.9 | 3.67 |
| 161153-160 | 246.5 | 2.52 |
| 161153-39 | 247.1 | 2.81 |
| 161153-70 | 247.2 | 2.66 |
| 161153-101 | 249.6 | 2.20 |
| 161153-28 | 253.3 | 3.21 |