**Supplementary Material 2 from Loy et al. ‘Developmental instability and phenotypic evolution in a small and isolated bear population’**

Above: location of 39 three dimensional landmarks visualized on lateral (top), ventral (central) occipital (bottom left) and frontal (bottom right) projections of the skull. Below: landmark description





 

|  |  |
| --- | --- |
| Landmark ID |  |
| 0-2 | Anterior edges between nasal and maxillar  |
| 1 | Nasion  |
| 3 | Superior tip of premaxillar suture  |
| 4 | Prostion  |
| 5 | Superior tips of infraorbital foramen  |
| 6 | Sutura tra mascellare,lacrimale (etmoide) e frontale sn |
| 7-10 | Tips of supraorbital apophyses  |
| 8 | Superior tips of infraorbital foramen |
| 9 | Suture between maxillar, lacrimal (etmoid), and frontal  |
| 11-12 | Superior lateral edges of coanes  |
| 13-14 | Inferior lateral edges of coanes |
| 15-17 | Superior tip of M3  |
| 16-18 | Inferior tip of M3 |
| 19-20 | Posterior tips of palatine foramina |
| 21 |  Most back tip of palatine suture  |
| 22-24 | Anterior tips of temporal fossae  |
| 23-25 | Posterior tips of zigomatic processes |
| 26-27 | Inferior tips of mandibular fossae  |
| 28-29 | Posterior tips of oval foramina  |
| 30 | Inferior tip of foramen magnum |
| 31 | Superior tip of foramen magnum |
| 32 | Opistocranium |
| 33-34 | Joins between jugal process and occipital condyle  |
| 35-37 | Anterior point of insertion of canines  |
| 36-38 | Inferior point of insertion of canines |