

Electronic Supplementary Materials: Online Resource 3

Comparison of the skull of Brown Skua (*Catharacta antarctica lonnbergi*) and South Polar Skua (*Catharacta maccormicki*): differentiation source identification and discriminant analysis.

Nicolás Kass¹, Diego Montalti^{1,2} and Carolina Acosta Hospitaleche³

¹Sección Ornitología, División Zoología Vertebrados, Facultad de Ciencias Naturales y Museo, UNLP. Paseo del Bosque s/n, B1900FWA-La Plata. Argentina. E-mail: nkass@fcnym.unlp.edu.ar

²Aves, Departamento Biología. Instituto Antártico Argentino-CONICET, Cerrito 1248, C1010AAZ-Buenos Aires, Argentina. dmontalti@fcnym.unlp.edu.ar

³División Paleontología Vertebrados, Museo de La Plata, CONICET. Paseo del Bosque s/n, B1900FWA-La Plata. Argentina. acostacaro@fcnym.unlp.edu.ar

Online Resource 3. Landmarks for the skull in palatal view. Landmark a is the cranial end of the bill, while landmark b is the most caudal end of the skull. Landmark c is located at the laterocaudal end of *processus paroccipitalis*. Landmark d is the most medial point of the maxillary bones. Landmark e is over the joint between the *maxillary* and *palatal* bones, at its most cranial end. The *lamina parasphenoidalis* is bounded cranially by landmark f, caudally by landmark g, and laterocaudally by landmark j. Landmark h is located in the *condylus occipitalis*. Finally landmark i is over the *rostrum parasphenoidale* at the contact between the *palatinum* and *ptergoideum* bones.

Deformation grids are given at both ends of the axes, in order to show variation along the main directions. Specimens belonging to *Catharacta maccormicki* are represented by white squares, whereas *Catharacta antarctica lonnbergi* are the black stars. Consensus configuration is shown in the middle of the biplot, with the corresponding vectors and landmarks of each analyzed specimen.

