



Figure S4 Bone histology of humeri in sampled birds stained to highlight cement lines.
 Sections stained with toluidine blue reveal arrest lines and canals of secondary osteons, which were excluded from analysis. Representative views are from the caudal octant of (A) *Phalaenoptilus nuttallii*, (B) *Nothura darwini*, (C) *Crypturellus boucardi*, (D) *Crypturellus cinnamomeus*, (E) *Columba livia*, (F) *Nothoprocta cinerascens*, (G) *Nothocercus nigrocapillus*, (H) *Eudromia elegans*, and (I) *Tinamus major*. Periosteal surface points up in each panel. Scale bar equals (A) 200 μm , (B & G) 480 μm , (C, D, F, & I) 600 μm , (E) 400 μm , and (H) 800 μm . Digital slides are available at <http://paleohistology.appspot.com>.