Text at beginning of Supplemental Material, Chapter 6

Supplemental Figures 6.1-6.12 show typical data for each specimen, specifically signal vs position. The specific line scan shown (e.g., line 5 of 5 in Suppl.Fig.6.1) is identified in the text at the lower right of each figure. The signal vs position plotted for each panel are: (A) P fluorescent intensity, (B) Zn fluorescent intensity, (C) Ca fluorescent intensity, (D) cAp diffracted intensity, and (E) transmitted optical intensity (with bands numbered). (F) Typical diffraction pattern from a position within the cementum.

Captions for Supplemental Figures for Chapter 6

Figure S6.1. Reindeer specimen 17-78.

Figure S6.2. Reindeer specimen 36-108.

Figure S6.3. Reindeer specimen 46-38.

Figure S6.4. Reindeer specimen 70-181.

Figure S6.5. Reindeer specimen 14-257.

Figure S6.6. Reindeer specimen 22-256.

Figure S6.7. Reindeer specimen 47-361.

Figure S6.8. Bovine specimen 50-PIIB1034.

Figure S6.9. Bovine specimen 28-94261.

Figure S6.10. Red deer specimen 40-CL302.

Figure S6.11. Human specimen 23-S82.

Figure S6.12. Human specimen 56-S46.

Figure S6.13. Reindeer specimen 17-78. Optical micrographs of the same area (A) before and (B) after x-ray mapping, showing the x-ray burn marks.

Figure S6.14. Red deer specimen 40 CL 302. Optical micrographs of the same area (A) before and (B) after x-ray mapping; (C) ROI of x-ray scanning, enlarged in central insert (D) showing the x-ray burn marks.

Figure S6.15. Bovine specimen 50-PIIB1034. Optical micrographs of the same area (A) before and (B) after x-ray mapping, showing the x-ray burn marks.