

SUPPLEMENTARY APPENDIX 1. Dental measurements of *Paratoceras* from the early Miocene of Panama. **Abbreviations:** **APL**, anterior-posterior length. **TWmx**: maximum transverse width. **TWHyd**: transverse hypoconulid width. *: highly deformed fossils excluded from the statistical summary.

| UF | | | | | |
|-------------------|----------------|----------------|----------|-----------|------------|
| Taxon | Catalog number | Tooth position | APL (mm) | TWmx (mm) | TWHyd (mm) |
| <i>P. coatesi</i> | UF 271182 | Rp1 | 6.36 | 3.55 | - |
| <i>P. coatesi</i> | UF 271623 | Lp1 | 6.26 | 3.62 | - |
| <i>P. coatesi</i> | UF 271181 | Rp2 | 13.74 | 6.10 | - |
| <i>P. coatesi</i> | UF 267123* | Lp2 | 14.31 | 5.76 | - |
| <i>P. coatesi</i> | UF 271182 | Rp3 | 13.99 | 6.29 | - |
| <i>P. coatesi</i> | UF 271624* | Rp3 | 15.50 | 6.03 | - |
| <i>P. coatesi</i> | UF 223328* | Rp3 | 12.30 | 5.25 | - |
| <i>P. coatesi</i> | UF 271181 | Rp3 | 13.48 | 6.45 | - |
| <i>P. coatesi</i> | UF 280222 | Rp3 | 12.47 | 6.17 | - |
| <i>P. coatesi</i> | UF 271623 | Lp3 | 13.36 | 6.31 | - |
| <i>P. coatesi</i> | UF 267123* | Lp3 | 16.27 | 7.43 | - |
| <i>P. coatesi</i> | UF 271182 | Rp4 | 10.76 | 7.43 | - |
| <i>P. coatesi</i> | UF 271624* | Rp4 | 11.67 | 7.45 | - |
| <i>P. coatesi</i> | UF 223328* | Rp4 | 9.90 | 6.50 | - |
| <i>P. coatesi</i> | UF 271181 | Rp4 | 10.67 | 7.93 | - |
| <i>P. coatesi</i> | UF 280222 | Rp4 | 8.95 | 7.34 | - |

APPENDIX 1. (Continued).

| UF | | | | | |
|-------------------|-------------------|----------------|----------|-----------|------------|
| Taxon | Catalog number | Tooth position | APL (mm) | TWmx (mm) | TWHyd (mm) |
| <i>P. coatesi</i> | UF 223094 | Lp4 | 9.96 | 7.56 | - |
| <i>P. coatesi</i> | UF 271623 | Lp4 | 10.56 | 7.76 | - |
| <i>P. coatesi</i> | UF 267124* | Lp4 | 11.17 | 8.14 | - |
| <i>P. coatesi</i> | UF 267123* | Lp4 | 13.68 | 9.63 | - |
| <i>P. coatesi</i> | UF 267125 | Lp4 | 10.66 | 7.72 | - |
| <i>P. coatesi</i> | UF 280222 | Rm1 | 11.66 | 10.60 | - |
| <i>P. coatesi</i> | UF 271182 | Rm1 | 11.90 | 10.96 | - |
| <i>P. coatesi</i> | UF 271624* | Rm1 | 14.13 | 10.50 | - |
| <i>P. coatesi</i> | UF 223328* | Rm1 | 10.26 | 8.81 | - |
| <i>P. coatesi</i> | UF 271181 | Rm1 | 12.01 | 11.69 | - |
| <i>P. coatesi</i> | UF 271623 | Lm1 | 11.55 | 9.66 | - |
| <i>P. coatesi</i> | UF 237854 | Lm1 | 11.85 | 9.90 | - |
| <i>P. coatesi</i> | UF 223094 | Lm1 | 12.21 | 10.61 | - |
| <i>P. coatesi</i> | UF 267124* | Lm1 | 12.29 | 11.47 | - |
| <i>P. coatesi</i> | UF 267123* | Lm1 | 12.66 | 12.39 | - |
| <i>P. coatesi</i> | UF 236927 | Lm1 | 11.66 | 10.01 | - |
| <i>P. coatesi</i> | UF 280222 | Rm2 | 12.36 | 12.02 | - |
| <i>P. coatesi</i> | UF 271182 | Rm2 | 13.18 | 11.73 | - |
| <i>P. coatesi</i> | UF 271624* | Rm2 | 16.35 | 11.93 | - |

APPENDIX 1. (Continued).

| Taxon | UF Catalog number | Tooth position | APL (mm) | TWmx (mm) | TWHyd (mm) |
|-------------------|----------------------|----------------|----------|-----------|------------|
| <i>P. coatesi</i> | UF 271181 | Rm2 | 13.22 | 13.39 | - |
| <i>P. coatesi</i> | UF 223328* | Rm2 | 12.77 | 9.92 | - |
| <i>P. coatesi</i> | UF 271623 | Lm2 | 13.15 | 11.80 | - |
| <i>P. coatesi</i> | UF 237854 | Lm2 | 13.71 | 12.63 | - |
| <i>P. coatesi</i> | UF 223094 | Lm2 | 14.54 | 12.72 | - |
| <i>P. coatesi</i> | UF 267124* | Lm2 | 12.43 | 12.98 | - |
| <i>P. coatesi</i> | UF 267123* | Lm2 | 14.33 | 12.50 | - |
| <i>P. coatesi</i> | UF 271182 | Rm3 | 17.98 | 11.52 | 6.89- |
| <i>P. coatesi</i> | UF 271624* | Rm3 | 19.22 | 12.53 | 6.77 |
| <i>P. coatesi</i> | UF 223328* | Rm3 | 19.70 | 9.90 | 6.84 |
| <i>P. coatesi</i> | UF 271596 | Rm3 | 17.99 | 11.23 | 6.53 |
| <i>P. coatesi</i> | UF 271623 | Lm3 | 18.12 | 10.95 | 6.91 |
| <i>P. coatesi</i> | UF 237854 | Lm3 | 20.62 | 11.82 | 7.01 |
| <i>P. coatesi</i> | UF 223094 | Lm3 | 17.92 | 12.72 | 7.15 |
| <i>P. coatesi</i> | UF 267124* | Lm3 | 16.18 | 12.67 | 6.70 |
| <i>P. coatesi</i> | UF 267123* | Lm3 | 21.75 | 13.01 | 6.90 |
| <i>P. coatesi</i> | UF 271150 | Lm3 | 17.38 | 12.03 | 7.10 |
| <i>P. orarius</i> | UF 237878 | Lm1 | 9.25 | 7.18 | - |
| <i>P. orarius</i> | UF 237878 | Lm2 | 10.42 | 8.01 | - |

APPENDIX 1. (Continued).

| Taxon | UF Catalog number | Tooth position | APL (mm) | TWmx (mm) | TWHyd (mm) |
|-------------------------|----------------------|----------------|----------|-----------|------------|
| <i>P. orarius</i> | UF 237878 | Lm3 | 13.95 | 8.18 | 4.98 |
| <i>P. orarius</i> | UF 271625 | Rp3 | 10.73 | 4.27 | - |
| <i>P. orarius</i> | UF 271625 | Rp4 | 8.45 | 5.37 | - |
| <i>P. orarius</i> | UF 271625 | Rm1 | 9.42 | 7.61 | - |
| <i>P. orarius</i> | UF 271625 | Rm2 | 10.05 | 8.40 | - |
| <i>P. orarius</i> | UF 271625 | Rm3 | 15.36 | 8.43 | - |
| <i>P. orarius</i> | UF 280222 | Rm2 | 9.84 | 7.62 | - |
| <i>P. orarius</i> | UF 280223 | Lm2 | 9.70 | 7.84 | - |
| <i>P. aff. tedfordi</i> | UF 254121 | Lm2 | 12.97 | 10.20 | - |
| <i>P. aff. tedfordi</i> | UF 271179 | Lm2 | 13.51 | 10.32 | - |
| <i>P. aff. tedfordi</i> | UF 254119 | Rp4 | 10.54 | 6.50 | - |
| <i>P. aff. tedfordi</i> | UF 271622 | Lm2 | 14.60 | 10.66 | - |
| <i>P. aff. tedfordi</i> | UF 271627 | Rm2 | 13.88 | 10.77 | - |
| <i>P. aff. tedfordi</i> | UF 267194 | Rp4 | 11.60 | 7.01 | - |
| <i>P. aff. tedfordi</i> | UF 267194 | Rm1 | 10.55 | 9.24 | - |
| <i>P. aff. tedfordi</i> | UF 267194 | Rm2 | 12.12 | 11.27 | - |
| <i>P. aff. tedfordi</i> | UF 267194 | Rm3 | 18.12 | 10.67 | 6.85 |
| <i>P. aff. tedfordi</i> | UF 275168 | Lm2 | 13.84 | 10.11 | - |
| <i>P. aff. tedfordi</i> | UF 275168 | Lm3 | 21.08 | 10.40 | 6.56- |

APPENDIX 1. (Continued).

| Taxon | UF Catalog number | Tooth position | APL (mm) | TWmx (mm) | TWHyd (mm) |
|-------------------------|----------------------|----------------|----------|-----------|------------|
| <i>P. aff. tedfordi</i> | UF 241199 | LP2 | 12.22 | 8.70 | - |
| <i>P. aff. tedfordi</i> | UF 271626 | RP3 | 10.41 | 5.97 | - |
| <i>P. aff. tedfordi</i> | UF 236931 | LM2 | 13.03 | 16.68 | - |
| <i>P. aff. tedfordi</i> | UF 271618 | RP4 | 8.78 | 11.01 | - |
| <i>P. coatesi</i> | UF 237877 | RP2 | 12.63 | 6.18 | - |
| <i>P. coatesi</i> | UF 237877 | RP3 | 12.65 | 8.58 | - |
| <i>P. coatesi</i> | UF 223584 | LP3 | 11.79 | 8.46 | - |
| <i>P. coatesi</i> | UF 236913 | RP4 | 8.22 | 13.47 | - |
| <i>P. coatesi</i> | UF 237877 | RP4 | 9.41 | 12.30 | - |
| <i>P. coatesi</i> | UF 223585 | RP4 | 8.83 | 13.83 | - |
| <i>P. coatesi</i> | UF 223584 | LP4 | 7.79 | 11.53 | - |
| <i>P. coatesi</i> | UF 236913 | RM1 | 11.06 | 14.48 | - |
| <i>P. coatesi</i> | UF 223585 | RM1 | 10.81 | 14.80 | - |
| <i>P. coatesi</i> | UF 237862 | LM1 | 11.29 | 14.34 | - |
| <i>P. coatesi</i> | UF 223326 | LM1 | 11.37 | 15.73 | - |
| <i>P. coatesi</i> | UF 223584 | LM1 | 10.99 | 13.49 | - |
| <i>P. coatesi</i> | UF 223585 | LM1 | 11.04 | 15.03 | - |

APPENDIX 1. (Continued).

| Taxon | UF Catalog number | Tooth position | APL (mm) | TWmx (mm) | TWHyd (mm) |
|-------------------|----------------------|----------------|----------|-----------|------------|
| <hr/> | | | | | |
| <i>P. coatesi</i> | UF 237877 | RM2 | 12.83 | 16.44 | - |
| <i>P. coatesi</i> | UF 223585 | RM2 | 12.92 | 17.77 | - |
| <i>P. coatesi</i> | UF 223326 | LM2 | 11.92 | 17.16 | - |
| <i>P. coatesi</i> | UF 223585 | LM2 | 12.82 | 17.94 | - |
| <i>P. coatesi</i> | UF 236917 | RM3 | 13.36 | 17.65 | - |
| <i>P. coatesi</i> | UF 237877 | RM3 | 11.79 | 16.08 | - |
| <i>P. coatesi</i> | UF 223585 | RM3 | 12.26 | 17.21 | - |
| <i>P. coatesi</i> | UF 223326 | LM3 | 11.63 | 16.18 | - |
| <i>P. coatesi</i> | UF 280221 | RM3 | 13.58 | 16.18 | - |
| <i>P. coatesi</i> | UF 223585 | LM3 | 12.43 | 16.91 | - |
| <i>P. coatesi</i> | UF 275284 | RM3 | 13.30 | 17.80 | - |
