

A re-evaluation of goniopholidid crocodylomorph material from Central Asia

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DOI:

[10.4202/app.2013.0018](https://doi.org/10.4202/app.2013.0018)

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Document Version

Publisher's PDF, also known as Version of record

Citation for published version (Harvard):

Halliday, TJD, Brandalise De Andrade, M, Benton, MJ & Efimov, MB 2015, 'A re-evaluation of goniopholidid crocodylomorph material from Central Asia: Biogeographic and phylogenetic implications', *Acta Palaeontologica Polonica*, vol. 60, no. 2, pp. 291-312. <https://doi.org/10.4202/app.2013.0018>

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Checked for eligibility: 19/06/2018

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SUPPLEMENTARY ONLINE MATERIAL FOR

**A re-evaluation of goniopholidid crocodylomorph material
from Central Asia: Biogeographic and phylogenetic
implications**

by

Thomas J.D. Halliday, Marco Brandalise de Andrade, Michael J. Benton,
and Mikhail B. Efimov

Published in *Acta Palaeontologica Polonica* 2015 60 (2): 291-312.
<http://dx.doi.org/10.4202/app.2013.0018>

Character coding for redescribed material, and changes to *E. delfsi*

Changes in coding of *Eutretraurosuchus delfsi*

Changes in coding of *Eutretauranosuchus delfsi*

- 2 – Skull geometry: relative position of tooth row, quadrate articular facet and occipital condyle – (? Unknown to 1 tooth row at a lower level than quadrate, aligned to occipital condyle)
- 3 – Skull geometry: relative position of tooth row and occipital condyle – (? Unknown to 0 unaligned)
- 4 – Skull geometry: relative position of quadrate and occipital condyles (? Unknown to 1 aligned)
- 8 – Rostrum: relation with the skull at maturity in lateral view (? Unknown to ½ Smooth decrease in height from skull/a poor fit)
- 28 – Foramen at premaxilla-maxilla suture (? Unknown to 0 absent)
- 29 – Perinarial crests: presence and morphology (? Unknown to 0 absent, surface even)
- 31 – Naris: orientation in the sagittal plane (? Unknown to 2 dorsal)
- 32 – Shape of naris (? Unknown to 0 subcircular)
- 33 – Naris distance to snout (? Unknown to 0 close)
- 34 – Presence of anterior narial notch (? Unknown to 0 absent)
- 35 – Presence of lateral narial notch (? Unknown to 0 absent)
- 36 – Composition of naris posterior border (? Unknown to 1 premaxilla)
- 37 – Presence and morphology of narial bar (? Unknown to 0 absent)
- 38 – Projection of internarial bar relative to premaxilla (? Unknown to – inapplicable)
- 39 – Presence of dorsal projection of anterior rami of premaxilla (? Unknown to 0 does not project)
- 59 – Presence of posterodorsal process of premaxilla at contact with maxilla and nasal (? Unknown to 1 present)
- 60 – Morphology of premaxilla-maxilla suture (? Unknown to 1 complex with anterior directed process from maxilla)
- 61 – Rostrum: presence of wedge like maxillary process (? Unknown to 1 present)
- 62 – Premaxilla morphology anterior to naris (? Unknown to 2 broadly meet at vertical wall)
- 65 – Shape of premaxilla in dorsal view (? Unknown to 3 paddle shaped)
- 95 – Lacrimal proportional length (? Unknown to 0 AP/ML closer to 2 or smaller)
- 97 – Posteroventral process of the lacrimal (? Unknown to 0 absent)
- 99 – Prefrontal-lacrimal crest dorsal to orbit (? Unknown to 0 absent)
- 100 – Transverse rostral crest: presence (? Unknown to 0 absent)
- 101 – Transverse frontal crest: presence (? Unknown to 0 absent)
- 104 – Crests margining the border of the sup-temp-fen (0 absent to 1 present)
- 160 – Orbit composition of anterior border (? Unknown to 2 lacrimal and prefrontal)
- 184 – Jugal fit to maxilla (? Unknown to 0 continuous)
- 196 – Postorbital bar: number of projections (? Unknown to [1/2] one/two projections)
- 204 – Quadratojugal participation in intertemporal foramen (? Unknown to 0 participates)
- 257 – Ectopterygoid posterior ramus (? Unknown to 0 reaches posterior tip)
- 335 – Participation of splenial in symphysis (? Unknown to 1 present)
- 340 – Dentary distal end (? Unknown to 1 long, reaches posteriorly to the orbit)
- 345 – Extension of surangular anterior lateral ramus (? Unknown to 1 long)
- 368/9 – Tooth cross-section (? Unknown to 1 circular)
- 370/1 – Faceted/laminar teeth (? Unknown to 0 absent)
- 378 – Carinae (1 present to 0 absent)