

Paleogene European comparable species in the branch	<i>Eochelone voltregana</i> n. sp. adult shell 57 cm	<i>E. brabantica</i> adult shell 63 cm max	<i>A. antiqua-C. breviceps</i> (younger + skull), <i>C. subcarinata</i> , <i>C. subcristata</i> – shell 18–23/27 cm max	<i>Chelone convexa</i> , genus indet.: shell 16 cm max	<i>Puppigerus camperi</i> adult shell 32 to 51.5 cm max	<i>Glirichelys</i> (adult <i>gwinneri</i> – very juvenile <i>knorri</i>) shell 68 cm (<i>gwinneri</i>) – 10 and 12 cm (<i>knorri</i> holotype and <i>ovata</i> specimen of <i>knorri</i>)
Lateral fontanelle length/processus hy-oplastral at base length	> (central plastron moderately ossified)	> (central plastron moderately ossified)	< (long processus) > (central plastron more ossified)	>	« (plastron much more ossified wide)	> (<i>knorri</i>) > (<i>gwinneri</i>) processus: relatively long (<i>gwinneri</i>), shorter (<i>knorri</i>)
Central/lateral fontanelles length	>	≥	> but both relatively small	>	> but both very small	≥ (<i>gwinneri</i>) » (<i>knorri</i>)
Central fontanelle width	ca. = width hyo-hypoplastral suture = width lateral fontanelle	> lateral fontanelle > narrow hyo-hypoplastral suture	< hyo-hypoplastral suture ≥ lateral fontanelle	ca. > hyo-hypoplastral suture > lateral fontanelle	« very wide hyo-hypoplastral suture >>> lateral fontanelle	> hyo-hypoplastral suture (but particularly wide) > lateral fontanelle (wide plastron <i>gwinneri</i>). > lateral > hyo-hypo suture (small in <i>knorri</i>)
Epiplastra anterior	protrude, rounded, wider latero-medially, long symphysis – minute medial notch	protrude + lateral incurvation, long symphysis	nonprotruding, rounded, short symphysis, wide epiplastra (<i>subcarinata</i>)	? short symphysis?	protrude with incurvation or not, rounded, in a wide anterior lobe, short symphysis-	well narrowly protrude with a short transversal anterior border, strong incurvation, long symphysis – wide short anterior lobe (<i>gwinneri</i>) short symphysis – immature (<i>knorri</i>)
Entoplastron! massive – lateral incurvation	massive in the fontanelle, no wings, barely incurvation	massive, no wings, barely incurvation	massive no wings (<i>subcarinata</i>)	?	very massive, no wings, fills fontanelle	massive, barely incurvation (<i>knorri</i>)
Number of neurals	9	9	8 (<i>subcarinata</i>) or 9	(8)	9	9 (<i>gwinneri</i> , <i>knorri</i>)
Quadrangular neural	first (known in one specimen only)	first (preserved in five specimens)	first (<i>breviceps</i> , <i>subcarinata</i>) or second (<i>subcristata</i>)	second	first, second or pentagonal neurals 1 and 2	first
Suprapygals	3	3	?	?	2 to 3	3 (<i>gwinneri</i>)
Dorsal adult fontanelles	moderate	moderate	reduced to absent	reduced	no (early filled) very adult	moderate (<i>gwinneri</i>)
Number of peripherals, marginals/pleurals	11 pairs/4 pairs	11 pairs/4 pairs	?/4 pairs	?/4 pairs	11 pairs/4 pairs	11 pairs/4 pairs
Sagittal carina	no	posterior one in one adult	carina angulous tectiform carapace	No- but rounded “tectiform”	no	carina in young (<i>knorri</i>)
Thoracic rib 9 below the costal 8, rib 9 reaching:	not curved, reaching peripherals 10–11 contact, no per without rib contact	curved, reaching peripheral 11, and rib 7 per 9–10 contact, no per without rib contact (nearly per 10)	?	?	curved or not, reaching peripherals 11 and rib 7 per 9–10 contact or per 9 (per 10 without rib contact or not)	curved, reaching peripheral 11, peripheral rib 7 per 10–11 contact, per 10 of one specimen without rib contact
Particularity	longer V4, posteriorly narrowed. Pentagonal central fontanelle anteriorly pointed	longer V3	no xiphiplastral fontanelles (<i>subcarinata</i> , <i>breviceps</i>) – rather young (<i>breviceps</i>) pinched vertebrals 2–4	wide plastron, angular bridge, long and wide central fontanelle linking the xiphiplastral	massive shell, no xiphiplastral fontanelles, wide rounded lobes	pinched laterally V2–V4-posterior sinuosity (<i>gwinneri</i> , <i>knorri</i>), nuchal fontanelles in young (<i>knorri</i>) <i>gwinneri</i> : wide main plastral body
Particular ornamentation	basic punctiform – plastral radiating ridges	punctiform, bifurcated sulci, polygons-radiated stripes below vertebrals	(drawn + reticulation: sulci anastomozed in polygons)	(drawn + polygons, minute longitudinal stripes)	dense carapace surface- bifurcated sulci, polygons	granulation (<i>gwinneri</i>), and ridges (<i>knorri</i>) wide central plastral body (<i>gwinneri</i>) few ossified plastron, slender (<i>knorri</i>)