ANNU "LIE": Truth Behind Growth Rings

Annuli are growth rings found on the scutes of a box turtle's carapace and plastron. These are rings of keratin laid down in correspondence to the growth of a box turtle's carapace or plastron. These are not necessarily formed annually and therefore are a poor estimate of age. Annuli simply show the history of growth of a box turtle, not the specific number of years lived.

Annuli may or may not be good indicators of the age of a box turtle.

Annuli rings are a result of the necessity for the expansion of the carapace and plastron as the turtle increases in size.

Box turtles lay down rings of keratin, called annuli rings. The word "annuli" means "ring" not "year".

Natal Scute: This is the scute a box turtle is born with. Over the years, the turtle will lay down rings around the natal ring.

Thick annuli rings
reflects a time of
heightened growth,
where as thin annuli
rings symbolize a time
of little growth. Rings
closer to the natal scute
tend to be larger.

Annuli are more correlated to the resources available to an individual and the resulting rate of growth due to the availability of those resources than to the age of that individual. This will vary from region to region.

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Wilson, D.S., Tracy, C.R., Tracy, C.R., 2003, Estimating
Age of Turtles from Growth Rings: A Critical Evaluation
of the Technique, Herpetologica 59(2), The
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