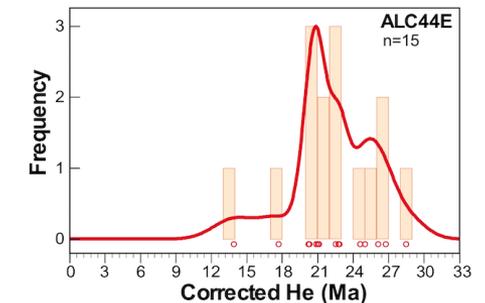
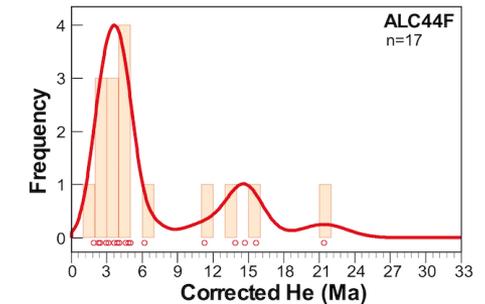
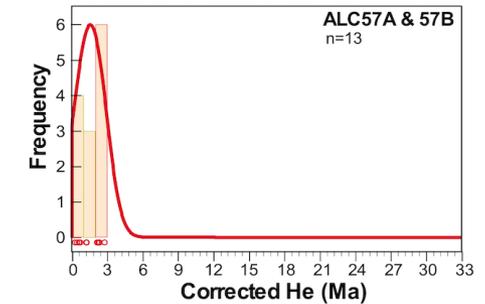
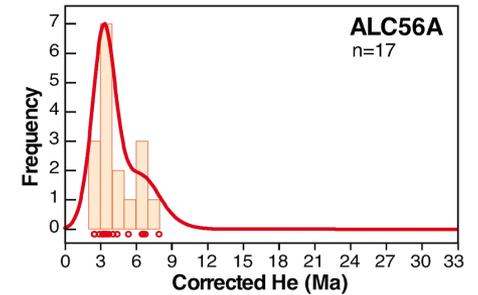
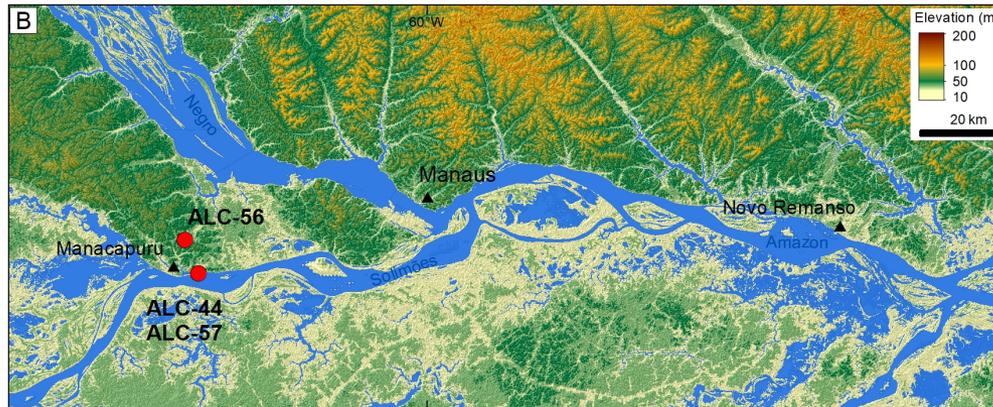
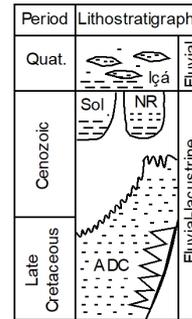
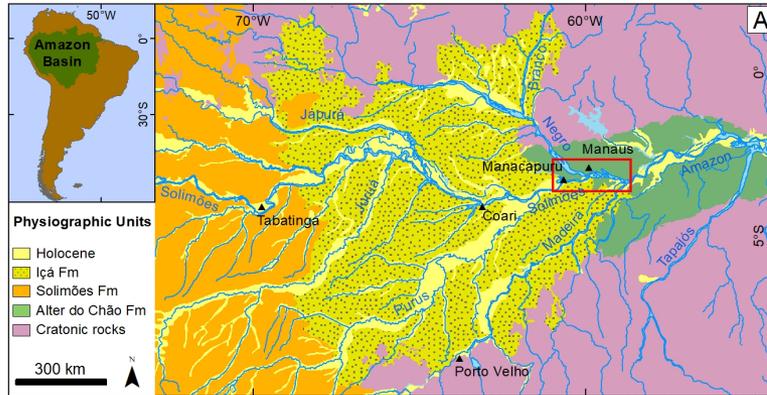


# Paleogene to Quaternary geodynamical evolution of the lowland Central Amazonia inferred by weathering phases dating

**Aim:** The fluvial deposits distributed across lowland Amazonia are of crucial relevance since they represent the best accessible archives to study the history of environment and climate change. However, regional stratigraphic correlations need to be improved to ensure a better understanding of reconstructions of past conditions in Amazonia during the Cenozoic.



**Method:** We used the (U-Th-Sm)/He dating method on goethite and hematite grains to determine the age of iron-enrichment layers and duricrusts that mark boundary surfaces used to define the stratigraphic framework of the Alter do Chão and Novo Remanso formations