

**Sample 5-6-6,
granites near Tonalá fault**

15.17218 N, 92.42421 W

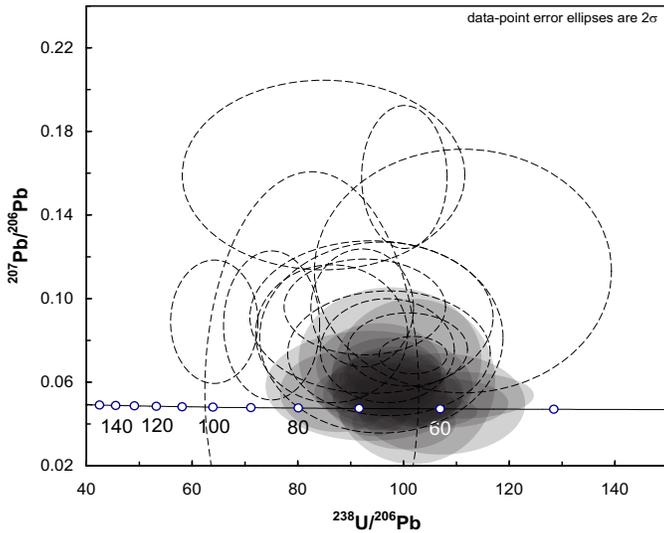
The sample is a biotite granitoid collected 4km NE of Huixtla, along the road to Motozintla.

A total of 40 grains were analysed from this sample. Analysed zircons are euhedral to subhedral with CL textures characterised by oscillatory zoning. Th/U ratios and U concentrations range from 0.1-1 and 60-1000 ppm respectively. The CL and zircon geochemistry suggest that the zircons crystallized in a igneous environment.

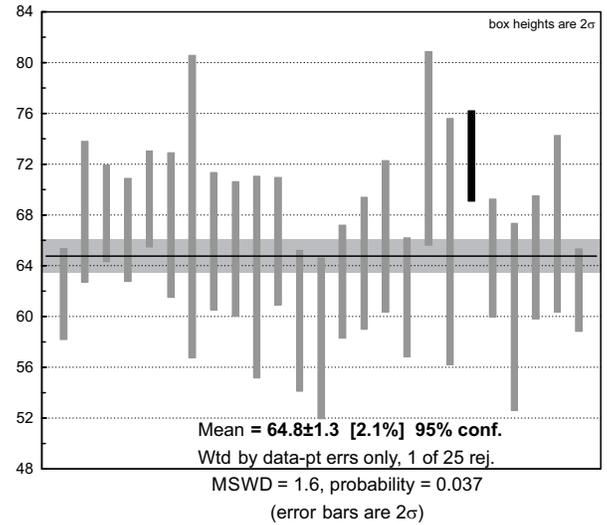
Of the 40 analysed grains 25 were used for age calculations (< 50% discordant, < 9% error). The weighted-mean age of **64.8 ± 1.3 Ma**

with an MSWD of 1.6 (1 age was rejected by the algorithm) can be interpreted as the age of crystallization within a magma chamber of an igneous event.

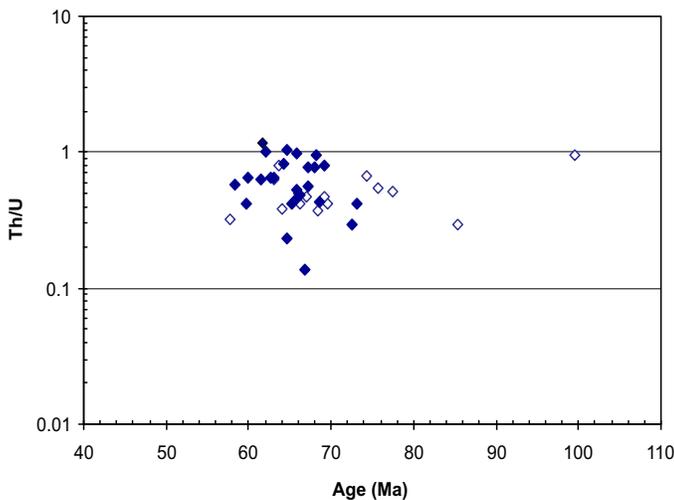
GSA Data Repository Item 2020201 accompanies Villagómez, D., and Pindell, J., 2020, Cooling and uplift history of the Chiapas Massif and its influence on sedimentation and deformation in the adjacent Sierra de Chiapas Basin, *in* Martens, U., and Molina Garza, R.S., eds., Southern and Central Mexico: GSA Special Paper 546, [https://doi.org/10.1130/2020.2546\(17\)](https://doi.org/10.1130/2020.2546(17)).



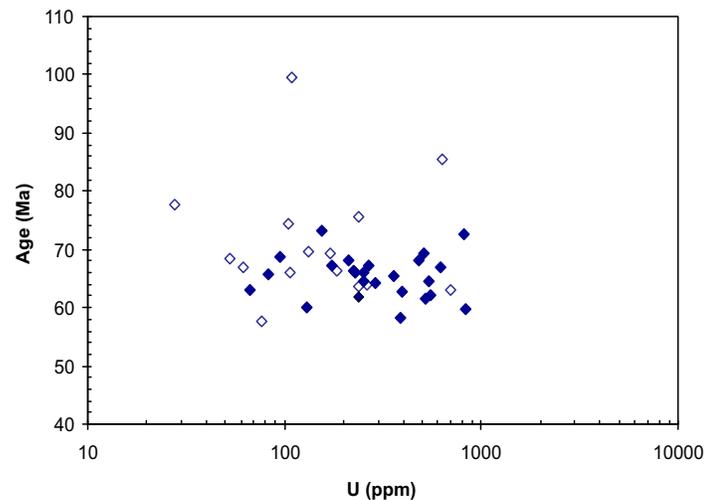
Tera Wasserburg plot for all of the analysed grains (n=40). The dotted ellipses represent analysis that were disregarded (> 50% discordant, >9% error), and the grey shaded ellipses represent analysis considered for age calculations (n=25).



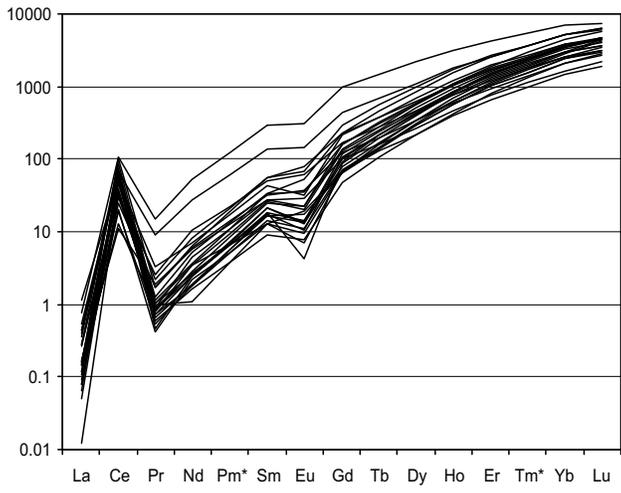
Weighted-mean age plot for the concordant analysed grains (n=25).



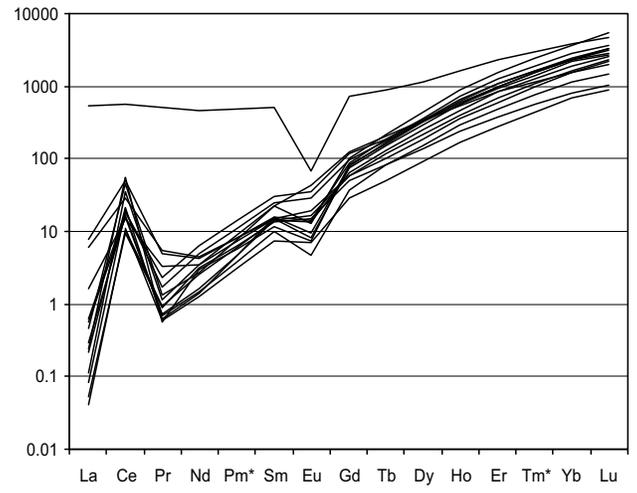
Age (Ma) vs Th/U plot for all of the analysed grains (n=40). Blue dots represent analysis that were used in age calculations (n=25) and the clear dots are the disregarded analysis (> 18% error).



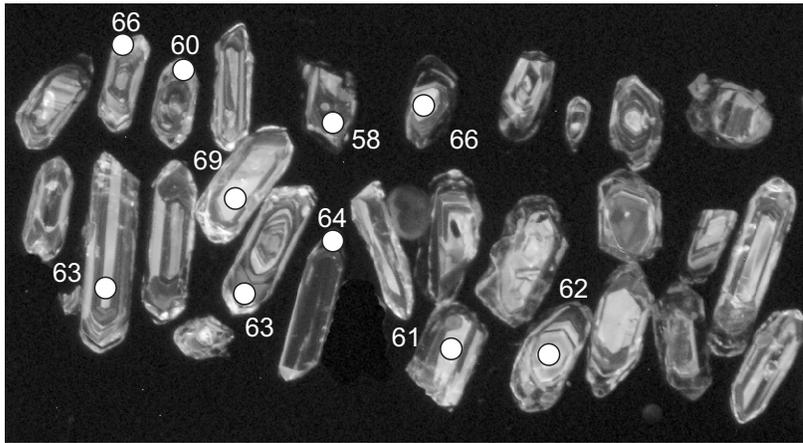
U (ppm) vs Age (Ma) plot for all of the analysed grains (n=40). Blue dots represent analysis that were used in age calculations (n=25) and the clear dots are the disregarded analysis (> 18% error).



Chondrite normalised REE plot for the concordant zircons.



Chondrite normalised REE plot for the disregarded zircon.



CL examples of the analysed grains