**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.

Chondrite normalised REE plot for the concordant zircons.

Chondrite normalised REE plot for the disregarded zircon.

CL examples of the analysed grains