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Characterization of the natural thermoluminescence emission of lava flows

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We herein report on the natural thermoluminescence (TL) emission of eight lava flows from different volcanic regions that could potentially be useful for dating purposes. All the samples were characterized by means of: (i) x-ray diffraction to determine the components that act as main contributors of the TL response and (ii) gamma-ray spectrometry to identify the natural radionuclides that induce the TL glow curve. In this sense, plagioclases (Na-Ca feldspars) are the most common mineral detected in lava flows (up to 45%) just with augite (silicate with composition (Ca, $Mg,Fe)_2(Si,Al)_2O_6$) that is a part of an important solid solution series of the pyroxene group (up to 35%). Different amounts of cristobalite, montmorillonite, forsterite, actinolite and hematite have been also identified. The level of the activity (in Bq/kg) differs from one sample to another. Thus, ^{238}U values are in a range of 6.33 and 30.4; ^{232}Th estimations are between 3.06 and 51.2 and ^{40}K values between 191 and 564. The observed changes in the natural TL emission of the samples depend, essentially, on (i) the mineralogical composition, (ii) the elapsed time from the last eruption, i.e. when the last zeroing took place and (iii) the radioactive content. The activation energy (E_a) values have been estimated by the applicability of the initial rise method to the TL glow curve.

LED2008 Poster Presentation

All posters should be put up in the first day and remain throughout the Conference.
Two Sessions are allocated for posters in the afternoons of 19 Sept and 21 Sept (2 hrs each).
The posters are broadly grouped on topics and each poster is given a number with P-. The posters with ***odd numbers*** are for Poster Session I on 19 Sept and the posters with ***even numbers*** are for Poster Session II on 21 Sept.
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