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Induced thermoluminescence as a method for dating recent volcanism: Hawaii County, Hawaii, USA

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Induced Thermoluminescence as a Method for Dating Recent Volcanism: Hawaii County,  
Hawaii, USA.

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Research Highlights:

- The compositionally-corrected induced thermoluminescence values for a suite of basalts from Big Island of Hawaii show a weak correlation with age although the TL-age slope for the Hawaii samples is shallower than similar data for basalts from Idaho.
- This difference in slope is due to the young (<50 ka) basalts which show a very similar range at both sites but while the Hawaii samples are skewed to higher values, the Idaho samples are skewed to lower values.
- Understanding the spread of induced TL values for <50 ka basalts is key to developing this technique as a chronometer.

Thermoluminescence, Basalts, Volcanoes, Crystallization, Hawaii

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