



Figure S1. Triple spike Pb isotope data of Hawaiian shield stage lavas (except Loihi, early pre-shield) plotted in Pb isotope space. Error bars are similar to symbol size.

A. $^{208}\text{Pb}/^{204}\text{Pb}$ vs. $^{206}\text{Pb}/^{204}\text{Pb}$ diagram showing the regression lines through the individual volcanoes.

B. $^{207}\text{Pb}/^{204}\text{Pb}$ vs. $^{206}\text{Pb}/^{204}\text{Pb}$ diagram. Regression through the individual arrays are not shown here, but the regression parameters are reported in Table S2. It is important to note that the overall range in $^{207}\text{Pb}/^{204}\text{Pb}$ ratios is much lower than those found in literature data (see GEOROC database, <http://georoc.mpch-mainz.gwdg.de> and references therein).