**Supplementary Table S3.** Published major and trace element data for the Khopoli olivine gabbros

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Sample* | KP1 | KP2 | KP3 | KP4 | KP5 | BU6 | Ak-12-53 | Ak-12-54 | CD4 |
| *Wt.%* |  |  |  |  |  |  |  |  |  |
| SiO2 | 43.48 | 45.67 | 44.71 | 44.79 | 44.81 | 42.56 | 46.20 | 48.33 | 42.22 |
| TiO2 | 0.64 | 0.81 | 0.75 | 0.78 | 0.76 | 0.80 | 0.95 | 0.97 | 1.03 |
| Al2O3 | 4.98 | 5.44 | 5.12 | 5.60 | 5.68 | 5.87 | 4.85 | 6.75 | 3.39 |
| Fe2O3(T) | 14.50 | 13.39 | 13.85 | 13.51 | 13.58 | 16.61 | 15.54\* | 14.51\* | 16.82 |
| MnO | 0.19 | 0.18 | 0.18 | 0.18 | 0.18 | 0.21 | 0.20 | 0.19 | 0.15 |
| MgO | 24.83 | 22.76 | 23.51 | 22.74 | 22.39 | 26.92 | 24.71 | 20.88 | 27.00 |
| CaO | 4.66 | 6.27 | 5.57 | 6.27 | 6.43 | 5.98 | 6.47 | 7.26 | 5.85 |
| Na2O | 1.15 | 1.03 | 0.98 | 1.22 | 1.02 | 0.90 | 0.67 | 0.74 | 0.54 |
| K2O | 0.30 | 0.32 | 0.29 | 0.31 | 0.25 | 0.01 | 0.24 | 0.26 | 0.12 |
| P2O5 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.14 | 0.11 | 0.11 | 0.35 |
| LOI | 5.35 | 4.10 | 6.20 | 5.43 | 4.52 | (6.00) | - | - | 3.66 |
| Total | 100.16 | 100.06 | 101.24 | 100.91 | 99.70 | 100.00 | 99.94 | 100.00 | 101.13 |
| Mg# | 79 | 79 | 79 | 79 | 79 | 78 |  |  |  |
| *ppm* |  |  |  |  |  |  |  |  |  |
| V | 203 | - | 220 | 228 | - | 140 | 118 | 146 | - |
| Cr | 1039 | - | 1007 | 1048 | - | 1432 | 2391 | 1981 | - |
| Co | 125 | - | 109 | 109 | - | - | - | - | - |
| Ni | 883 | - | 733 | 738 | - | 772 | 708 | 609 | - |
| Zn | 153 | - | 177 | 139 | - | 95 | 101 | 100 | - |
| Rb | 3 | - | 3 | 5 | - | 4 | 5 | 6 | - |
| Sr | 100 | - | 114 | 110 | - | 123 | 106 | 127 | - |
| Y | 9 | - | 11 | 11 | - | 11 | 13 | 14 | - |
| Zr | 52 | - | 52 | 55 | - | 51 | 59 | 63 | - |
| Nb | 6.2 | - | - | - | - | 3.3 | 3 | 3 | - |
| Ba | 194 | - | 188 | 211 | - | 47 | 95 | - | - |
| La | 4.91 | - | 5.27 | 5.20 | - | - | 11 | 9 | - |
| Ce | 11.31 | - | 12.37 | 12.18 | - | - | 2 | 1 | - |
| Pr | 1.53 | - | 1.69 | 1.68 | - | - |  |  | - |
| Nd | 6.91 | - | 7.69 | 7.73 | - | - |  |  | - |
| Sm | 1.78 | - | 2.08 | 2.13 | - | - |  |  | - |
| Eu | 0.60 | - | 0.70 | 0.72 | - | - |  |  | - |
| Gd | 1.93 | - | 2.16 | 2.27 | - | - |  |  | - |
| Tb | 0.31 | - | 0.35 | 0.35 | - | - |  |  | - |
| Ho | 0.36 | - | 0.42 | 0.44 | - | - |  |  | - |
| Yb | 0.85 | - | 0.93 | 0.94 | - | - |  |  | - |
| Lu | 0.13 | - | 0.14 | 0.15 | - | - |  |  | - |
| Ta | 0.13 | - | 0.02 | 0.07 | - | - |  |  | - |
| Th | 1.18 | - | 1.05 | 1.07 | - | - |  |  | - |
| U | 0.30 | - | 0.31 | 0.30 | - | - |  |  | - |

Notes: Major and trace element and LOI (loss on ignition) values for samples KP1 to KP5, as well as the LOI, V, Cr and Ba values for sample BU6, are from Cucciniello *et al.* (2014). The other BU6 data are from Melluso *et al.* (2010). Please see these papers for information on sample locations, analytical methods and quality. Values for Ak-12-53, Ak-12-54 and CD4 are from Godbole and Ray (1996); \* indicates that values were reported simply as FeO, without any Fe2O3. Dashes mean that data are not available. Mg Number (Mg#) = 100 Mg2+/(Mg2+ + Fe2+), atomic. Mg# values were calculated based on LOI-free adjusted data obtained with the SINCLAS program (Verma *et al.* 2002) and a Fe2+/Fe3+ ratio following the iron division scheme of Middlemost (1989) offered by the program.